Roy F. Weston, Inc.
Suite 500
750 East Bunker Court
Vernon Hills, IL 60061-1450
847-918-4000 • Fax 847-918-4055
www.rfweston.com

29 November 2000

Rec'd 11/30/00

Ms. Lolita Hill
U.S. Environmental Protection Agency
Region V
77 West Jackson Boulevard
Chicago, Illinois 60604

U.S. EPA Contract No.: 68-W7-0026

Work Assignment No.: 026-RARA-05N1

Document Control No.: RFW026-2A-AGQO

Subject: Remedial Action Report
Scrap Processing

Dear Ms. Hill:

Roy F. Weston, Inc. (WESTON®) is pleased to submit two copies of the Remedial Action Report for the Scrap Processing site in Medford, Wisconsin.

Please contact me at (847) 918-4042 if you have any comments and/or questions.

Very truly yours,

ROY F. WESTON, INC.

for William F. Karlovitz, P.E.
Site Manager

WFK:kms

Enclosure

Submitted 11/24/00
Rec'd 11/30/00

REMEDIAL ACTION REPORT
SCRAP PROCESSING
MEDFORD, WISCONSIN

Prepared For:

United States Environmental Protection Agency
Region V
77 West Jackson Boulevard
Chicago, Illinois 60604

Prepared By:

ROY F. WESTON, INC.
750 E. Bunker Ct., Suite 500
Vernon Hills, Illinois 60061

November 2000

This document was prepared by Roy F. Weston, Inc. In accordance with the terms of the U.S. EPA Region V Contract No. 68-W7-0026.

Document Control No. RFW026-2A-AG

TABLE OF CONTENTS

LIST OF FIGURES

LIST OF TABLES

LIST OF APPENDICES

SECTION 1

INTRODUCTION

This report is a summary of work performed by Roy F. Weston, Inc. (WESTON®) and its subcontractors, for the remediation of the Scrap Processing (SP) site in Medford, Wisconsin.

1.1 SITE LOCATION AND DESCRIPTION

The Scrap Processing (SP) Site is a salvage yard and former battery cracking facility that now operates as a scrap processing dealership and recycler. The site is located at 510 West Allman Street in Medford, Taylor County, Wisconsin. The site covers approximately 15 acres and is located east of the Black River and City of Medford property. The site lies within the Medford United States Geological Survey (USGS) quadrangle. Site coordinates are latitude 45° 08.5' N and longitude 90° 21.2' W. Figure 1-1 shows the site location.

1.2 SITE HISTORY

The Scrap Processing Site is owned and operated by Mark and Pat Potaczek. They are the sons of the deceased original scrap yard owner and operator, Julius Potaczek. In the mid-1950s, scrap yard operations began with activities that included crushing cars and large appliances. From the 1950s until 1974, battery cracking occurred. After that time, the battery cracking allegedly was reduced, and finally ceased in the early 1980s. In 1984, the Scrap Processing Site was placed on the National Priorities List (NPL) and designated a Superfund site. An existing site layout is depicted in Figure 1-2.

1.3 SCOPE OF WORK

Under the SOW of the ROD issued on 30 September 1997, the construction activities that took place at the Scrap Processing site included

- Excavation of lead contaminated soils exceeding 500 ppm, site restoration including backfill with clean soil, grading and revegetation to prevent erosion.
- Off-site disposal of excavated contaminated soils at a solid waste landfill determined to be operating in compliance with applicable permits and state requirements.
- Installation of a security fence along the perimeter of the site.
- Installation of groundwater monitoring wells in the source area next to the battery cracking building, and repair, as needed, of other existing wells to be included in the groundwater monitoring network.
- Development of a groundwater monitoring plan.

Additionally, lead leaching site soil identified by previous Remedial Design Sampling was required to be stabilized prior to being accepted by the solid waste landfill. Therefore, the lead leaching soil was stabilized using a phosphate reagent. Once the soil and reagent were mixed, it was stockpiled in its excavation and tested for TCLP lead. Once the soil tested below 5 mg/L, (TCLP lead limit) it was transported to the landfill.

TABLE 3-1
SCRAP PROCESSING
SOIL REMEDIATION
TOTAL LEAD SOIL CONFIRMATION SAMPLING
MEDFORD, WISCONSIN
3 DECEMBER 1999

Analytical above lead cleanup objective of 500 mg/kg

DATE TAKEN	DATE RECEIVED BY LAB	LAB SAMPLE NUMBER	PROJECT SAMPLE NUMBER	STATION NUMBER	TOTAL LEAD (MG/KG)	ACTION TAKEN	RESAMPLED STATION NUMBER
01-Nov-99	04-Nov-99	17239	2000ZG02S01	SP1-SS01-01	21	No Action Taken	
01-Nov-99	04-Nov-99	17240	2000ZG02S02	SP1-SS02-01	29	No Action Taken	
01-Nov-99	04-Nov-99	17241	2000ZG02S03	SP1-SS03-01	29	No Action Taken	
02-Nov-99	04-Nov-99	17242	2000ZG02S04	SP1-SS04-01	43	No Action Taken	
02-Nov-99	04-Nov-99	17243	2000ZG02D04	SP1-SS04-01DP	40	No Action Taken	
02-Nov-99	04-Nov-99	17244	2000ZG02S05	SP1-SS05-01	35	No Action Taken	
02-Nov-99	04-Nov-99	17245	2000ZG02S06	SP1-SS06-01	18	No Action Taken	
02-Nov-99	04-Nov-99	17246	2000ZG02S07	SP1-SS07-01	67	No Action Taken	
02-Nov-99	04-Nov-99	17247	2000ZG02S08	SP1-SS08-01	33	No Action Taken	
02-Nov-99	04-Nov-99	17248	2000ZG02S09	SP1-SS09-01	80	No Action Taken	
03-Nov-99	04-Nov-99	17249	2000ZG02S10	SP1-SS10-01	74	No Action Taken	
03-Nov-99	04-Nov-99	17250	2000ZG02S11	SP1-SS11-01MSD	291	No Action Taken	
03-Nov-99	04-Nov-99	17251	2000ZG02S12	SP1-SS12-01	39	No Action Taken	
03-Nov-99	04-Nov-99	17252	2000ZG02S13	SP1-SS13-01	55	No Action Taken	
03-Nov-99	04-Nov-99	17253	2000ZG02D14	SP1-SS13-01DP	57	No Action Taken	
04-Nov-99	04-Nov-99	17255	2000ZG02S15	SP1-SS15-01	11,800	Excavte and resample	S83
04-Nov-99	04-Nov-99	17259	2000ZG02D15	SP1-SS15-01DP	10,800	Excavte and resample	S83
04-Nov-99	04-Nov-99	17256	2000ZG02S16	SP1-SS16-01	185	No Action Taken	
04-Nov-99	04-Nov-99	17257	2000ZG02S17	SP1-SS17-01	275	No Action Taken	
04-Nov-99	04-Nov-99	17258	2000ZG02S18	SP1-SS18-01	1,900	Excavte and resample	S70
05-Nov-99	08-Nov-99	17279	2000ZG02S19	SP1-SS19-01	17	No Action Taken	
05-Nov-99	08-Nov-99	17280	2000ZG02S20	SP1-SS20-01	13	No Action Taken	
05-Nov-99	08-Nov-99	17281	2000ZG02S21	SP1-SS21-01	19	No Action Taken	
05-Nov-99	08-Nov-99	17282	2000ZG02S22	SP1-SS22-01	21	No Action Taken	
05-Nov-99	08-Nov-99	17283	2000ZG02D22	SP1-SS22-01DP	18	No Action Taken	
05-Nov-99	08-Nov-99	17284	2000ZG02S23	SP1-SS23-01	710	Excavte and resample	S77
05-Nov-99	08-Nov-99	17285	2000ZG02S24	SP1-SS24-01	695	Excavte and resample	S84
08-Nov-99	08-Nov-99	17321	2000ZG02S25	SP1-SS25-01	31	No Action Taken	
08-Nov-99	08-Nov-99	17322	2000ZG02S26	SP1-SS26-01	23	No Action Taken	
08-Nov-99	08-Nov-99	17323	2000ZG02S27	SP1-SS27-01	97	No Action Taken	
08-Nov-99	08-Nov-99	17324	2000ZG02S28	SP1-SS28-01	96	No Action Taken	
09-Nov-99	10-Nov-99	17374	2000ZG02S29	SP1-SS29-01	8,470	Stabilize and excavate	
09-Nov-99	10-Nov-99	17375	2000ZG02S30	SP1-SS30-01	52	No Action Taken	
09-Nov-99	10-Nov-99	17376	2000ZG02S31	SP1-SS31-01	35	No Action Taken	
09-Nov-99	10-Nov-99	17377	2000ZG02S32	SP1-SS32-01	55	No Action Taken	
10-Nov-99	10-Nov-99	17387	2000ZG02S33	SP1-SS33-01	2,330	Excavte and resample	S82/S89/S81
10-Nov-99	10-Nov-99	17388	2000ZG02S34	SP1-SS34-01	2,720	Excavte and resample	S82/S89/S81
10-Nov-99	10-Nov-99	17389	2000ZG02S35	SP1-SS35-01	730	Excavte and resample	S87/S88/S86
10-Nov-99	10-Nov-99	17390	2000ZG02S36	SP1-SS36-01	970	Excavte and resample	S87/S88/S86
11-Nov-99	12-Nov-99	17459	2000ZG02S37	SP1-SS37-01	619	Taken at 4.5 ft bgs	S86
11-Nov-99	12-Nov-99	17460	2000ZG02S38	SP1-SS38-01	72	No Action Taken	
11-Nov-99	12-Nov-99	17461	2000ZG02S39	SP1-SS39-01	13	No Action Taken	
11-Nov-99	12-Nov-99	17462	2000ZG02S40	SP1-SS40-01	46	No Action Taken	
11-Nov-99	12-Nov-99	17463	2000ZG02S41	SP1-SS41-01	16	No Action Taken	
11-Nov-99	12-Nov-99	17464	2000ZG02S42	SP1-SS42-01	73	No Action Taken	
11-Nov-99	12-Nov-99	17465	2000ZG02S43	SP1-SS43-01	17	No Action Taken	
11-Nov-99	12-Nov-99	17466	2000ZG02S44	SP1-SS44-01	16	No Action Taken	
11-Nov-99	12-Nov-99	17467	2000ZG02S45	SP1-SS45-01MSD	18	No Action Taken	
12-Nov-99	15-Nov-99	17475	2000ZG02S46	SP1-SS46-01	140	No Action Taken	
12-Nov-99	15-Nov-99	17476	2000ZG02S47	SP1-SS47-01	234	No Action Taken	
12-Nov-99	15-Nov-99	17477	2000ZG02S48	SP1-SS48-01	58	No Action Taken	
12-Nov-99	15-Nov-99	17478	2000ZG02S49	SP1-SS49-01	130	No Action Taken	
12-Nov-99	15-Nov-99	17479	2000ZG02S50	SP1-SS50-01	314	No Action Taken	
12-Nov-99	15-Nov-99	17480	2000ZG02D50	SP1-SS50-01DP	275	No Action Taken	
15-Nov-99	16-Nov-99	17497	2000ZG02S51	SP1-SS51-01	252	No Action Taken	
15-Nov-99	16-Nov-99	17498	2000ZG02S52	SP1-SS52-01	336	No Action Taken	
15-Nov-99	16-Nov-99	17499	2000ZG02S53	SP1-SS53-01	846	Excavate 6 inches, stabilize, and resample	S75
15-Nov-99	16-Nov-99	17500	2000ZG02S54	SP1-SS54-01	945	Excavate 6 inches, stabilize, and resample	S74
15-Nov-99	16-Nov-99	17501	2000ZG02S55	SP1-SS55-01	1030	Excavate 6 inches, stabilize, and resample	S69
16-Nov-99	17-Nov-99	17502	2000ZG02S56	SP1-SS56-01	274	No Action Taken	

TABLE 3-1
SCRAP PROCESSING
SOIL REMEDIATION
TOTAL LEAD SOIL CONFIRMATION SAMPLING
MEDFORD, WISCONSIN
3 DECEMBER 1999

Analytical above lead cleanup objective of 500 mg/kg

DATE TAKEN	DATE RECEIVED BY LAB	LAB SAMPLE NUMBER	PROJECT SAMPLE NUMBER	STATION NUMBER	TOTAL LEAD (MG/KG)	ACTION TAKEN	RESAMPLED STATION NUMBER
16-Nov-99	17-Nov-99	17503	2000ZG02S57	SP1-SS57-01	943	Excavate 6 inches, stabilize, and resample	S72
16-Nov-99	17-Nov-99	17504	2000ZG02S58	SP1-SS58-01	360	No Action Taken	
16-Nov-99	17-Nov-99	17505	2000ZG02S59	SP1-SS59-01	567	Excavate 6 inches, stabilize, and resample	S73
16-Nov-99	17-Nov-99	17506	2000ZG02D59	SP1-SS59-01-DP	752	Excavate 6 inches, stabilize, and resample	S73
17-Nov-99	18-Nov-99	17561	2000ZG02S60	SP1-SS60-01	547	Excavate 6 inches, stabilize, and resample	S80/S87/S88
17-Nov-99	18-Nov-99	17562	2000ZG02S61	SP1-SS61-01	36	No Action Taken	
17-Nov-99	18-Nov-99	17563	2000ZG02S62	SP1-SS62-01	230	No Action Taken	
18-Nov-99	19-Nov-99	17595	2000ZG02S63	SP1-SS63-01	622	Excavate 6 inches, stabilize, and resample	S85/S87/S88
18-Nov-99	19-Nov-99	17596	2000ZG02S64	SP1-SS64-01	153	No Action Taken	
18-Nov-99	19-Nov-99	17597	2000ZG02S65	SP1-SS65-01	255	No Action Taken	
18-Nov-99	19-Nov-99	17598	2000ZG02S66	SP1-SS66-01MSD	165	No Action Taken	
18-Nov-99	19-Nov-99	17599	2000ZG02S67	SP1-SS67-01	494	No Action Taken	
18-Nov-99	19-Nov-99	17600	2000ZG02S68	SP1-SS68-01	698	Excavate 6 inches, stabilize, and resample	S78
18-Nov-99	19-Nov-99	17601	2000ZG02S69	SP1-SS69-01	33	No Action Taken	
18-Nov-99	22-Nov-99	17617	2000ZG02S70	SP1-SS70-01	396	No Action Taken	
18-Nov-99	22-Nov-99	17618	2000ZG02S71	SP1-SS71-01	345	No Action Taken	
19-Nov-99	22-Nov-99	17619	2000ZG02S72	SP1-SS72-01	18	No Action Taken	
19-Nov-99	22-Nov-99	17620	2000ZG02S73	SP1-SS73-01	93	No Action Taken	
19-Nov-99	22-Nov-99	17621	2000ZG02S74	SP1-SS74-01	417	No Action Taken	
19-Nov-99	22-Nov-99	17622	2000ZG02S75	SP1-SS75-01	36	No Action Taken	
19-Nov-99	22-Nov-99	17623	2000ZG02S76	SP1-SS76-01	49	No Action Taken	
19-Nov-99	22-Nov-99	17624	2000ZG02D76	SP1-SS76-01DP	77	No Action Taken	
19-Nov-99	22-Nov-99	17625	2000ZG02S77	SP1-SS77-01	86	No Action Taken	
23-Nov-99	24-Nov-99	17657	2000ZG02S78	SP1-SS78-01	31	No Action Taken	
23-Nov-99	24-Nov-99	17658	2000ZG02S79	SP1-SS79-01	39	No Action Taken	
23-Nov-99	24-Nov-99	17659	2000ZG02S80	SP1-SS80-01	11	No Action Taken	
23-Nov-99	24-Nov-99	17660	2000ZG02D80	SP1-SS80-01DP	9.4	No Action Taken	
23-Nov-99	24-Nov-99	17661	2000ZG02S81	SP1-SS81-01	37	No Action Taken	
24-Nov-99	29-Nov-99	17667	2000ZG02S82	SP1-SS82-01	961	Excavate 6 inches, stabilize, and resample	S89
24-Nov-99	29-Nov-99	17668	2000ZG02S83	SP1-SS83-01	76	No Action Taken	
24-Nov-99	29-Nov-99	17669	2000ZG02S84	SP1-SS84-01	13	No Action Taken	
30-Nov-99	01-Dec-99	17710	2000ZG02S85	SP1-SS85-01	20	No Action Taken	
30-Nov-99	01-Dec-99	17711	2000ZG02D85	SP1-SS85-01DP	54	No Action Taken	
30-Nov-99	01-Dec-99	17712	2000ZG02S86	SP1-SS86-01	42	No Action Taken	
30-Nov-99	01-Dec-99	17713	2000ZG02S87	SP1-SS87-01	27	No Action Taken	
30-Nov-99	01-Dec-99	17714	2000ZG02S88	SP1-SS88-01	27	No Action Taken	
01-Dec-99	02-Dec-99	17779	2000ZG02S89	SP1-SS89-01	19	No Action Taken	
01-Dec-99	02-Dec-99	17780	2000ZG02S90	SP1-SS90-01	69	No Action Taken	
01-Dec-99	02-Dec-99	17781	2000ZG02D90	SP1-SS90-01DP	86	No Action Taken	

TABLE 3-2
SOIL REMEDIATION
TCLP LEAD SOIL CONFIRMATION SAMPLING
3 DECEMBER 1999

ANALYTICAL ABOVE LEAD TCLP LIMIT OF 5 MG/L

DATE TAKEN	DATE RECEIVED BY LAB	LAB SAMPLE NUMBER	PROJECT SAMPLE NUMBER	STABILIZATION AREA	TCLP (MG/L)	ACTION TAKEN	Resampled Stabilization Area
11/04/1999	11/06/1999	255527	S-1	A-C	0.077	No Action Taken	
11/04/1999	11/06/1999	255528	S-2	B	9.81	Restabilize and resample	A5/A6
11/04/1999	11/06/1999	255529	S-3	D	0.002	No Action Taken	
11/08/1999	11/09/1999	255728	S-4	S-15 and S-18	235	Stabilize and sample	A2/A3
11/08/1999	11/09/1999	255729	S-5	T	0.022	No Action Taken	
11/08/1999	11/09/1999	255730	S-6	S	1.4	No Action Taken	
11/10/1999	11/11/1999	255971	S-7	Area L-1-batteries	NA	No Action Taken	
11/10/1999	11/11/1999	255972	S-8	B	<0.001	No Action Taken	
11/10/1999	11/11/1999	255973	S-9	B	0.208	No Action Taken	
11/11/1999	11/12/1999	256100	S-10	R	0.047	No Action Taken	
11/11/1999	11/12/1999	256101	S-11	P	<0.001	No Action Taken	
11/11/1999	11/12/1999	256102	S-12	Area L-1-batteries	10.8	Excavate batteries & resample	
11/11/1999	11/12/1999	256103	S-13	F	0.033	No Action Taken	
11/11/1999	11/12/1999	256104	S-14	Q	0.105	No Action Taken	
11/12/1999	11/15/1999	256169	S-15	Treatability study-untreated sample	129	No Action Taken	
11/12/1999	11/15/1999	256170	S-16	Treatability study-1.5% reagent	1.62	No Action Taken	
11/12/1999	11/15/1999	256171	S-17	Treatability study-2% reagent	0.462	No Action Taken	
11/12/1999	11/15/1999	256172	S-18	Treatability study-2.5% reagent	0.623	No Action Taken	
11/15/1999	11/16/1999	256226	S-19	E	0.141	No Action Taken	
11/15/1999	11/16/1999	256227	S-20	H	0.693	No Action Taken	
11/15/1999	11/16/1999	256228	S-21	I	0.002	No Action Taken	
11/15/1999	11/16/1999	256229	S-22	G	0.177	No Action Taken	
11/17/1999	11/18/1999	256630	S-23	K	2.29	No Action Taken	

TABLE 3-2
SOIL REMEDIATION
TCLP LEAD SOIL CONFIRMATION SAMPLING
3 DECEMBER 1999

ANALYTICAL ABOVE LEAD TCLP LIMIT OF 5 MG/L

DATE TAKEN	DATE RECEIVED BY LAB	LAB SAMPLE NUMBER	PROJECT SAMPLE NUMBER	STATION NUMBER	TCLP (MG/L)	ACTION TAKEN	Resampled Stabilization Area
11/18/1999	11/19/1999	256846	S-24	A1	0.147	No Action Taken	
11/18/1999	11/19/1999	256847	S-25	L-2, south of tracks	0.054	No Action Taken	
11/18/1999	11/19/1999	256848	S-26	A2	0.238	No Action Taken	
11/19/1999	11/22/1999	256857	S-27	A3	17.5	Restabilize and resample	S-33
11/19/1999	11/22/1999	256858	S-28	A4	0.873	No Action Taken	
11/19/1999	11/22/1999	256859	S-29	L-2, dirt pile	1.02	No Action Taken	
11/23/1999	11/24/1999	257092	S-30	S78,S79,S80	<0.001	No Action Taken	
11/23/1999	11/24/1999	257093	S-31	A5	0.18	No Action Taken	
11/23/1999	11/24/1999	25794	S-32	A7	<0.001	No Action Taken	
11/29/1999	11/30/1999	257338	S-33	A3 Restabilize	0.103	No Action Taken	A3
11/29/1999	11/30/1999	257339	S-34	A6	0.01	No Action Taken	
11/29/1999	11/30/1999	257340	S-35	A8	0.014	No Action Taken	

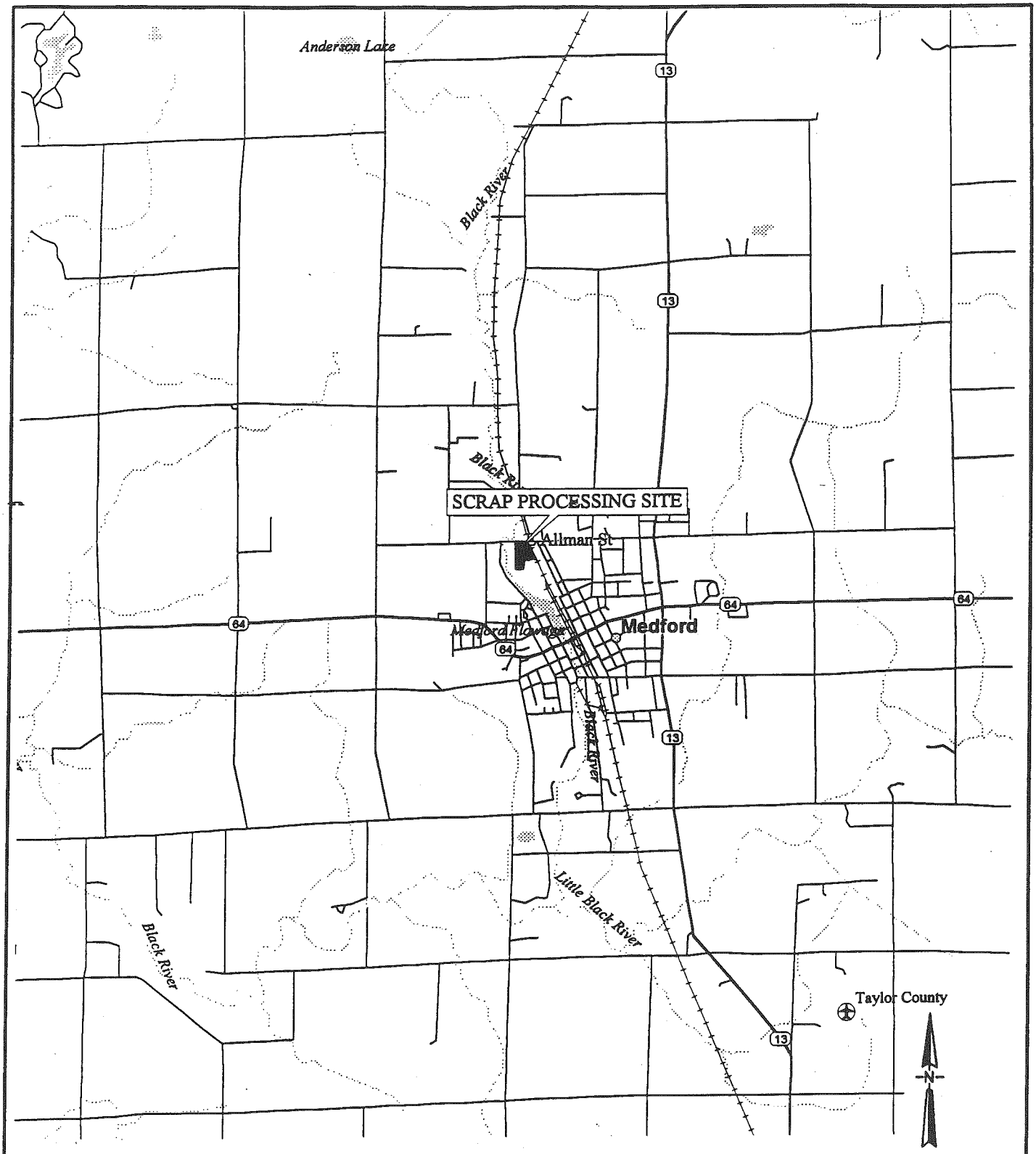


FIGURE 1-1

WESTON MANAGERS DESIGNERS/CONSULTANTS

Three Hawthorn Parkway
Vernon Hills, Illinois
60061

SITE LOCATION MAP

SCRAP PROCESSING

Medford, Wisconsin

NOTES:
1. BASELINE SURVEY PREPARED BY TN AND ASSOCIATES, INC. ENGINEERING AND SCIENCE, DECEMBER 1998.
2. THE POINT OF BEGINNING OF THE GRID SHOWN HEREON IS THE NORTHEASTERLY CORNER OF THE MAIN BUILDING WITH GRID LINES RUNNING PARALLEL WITH AND PERPENDICULAR TO THE NORTH LINE OF THE NORTHWEST 1/4 OF SECTION 27.
3. BENCHMARK 1= 3 CHISLED MARKS ON TOP OF GUARD RAIL, CENTER OF BRIDGE ON UPSTREAM SIDE. ELEVATION=1422.12

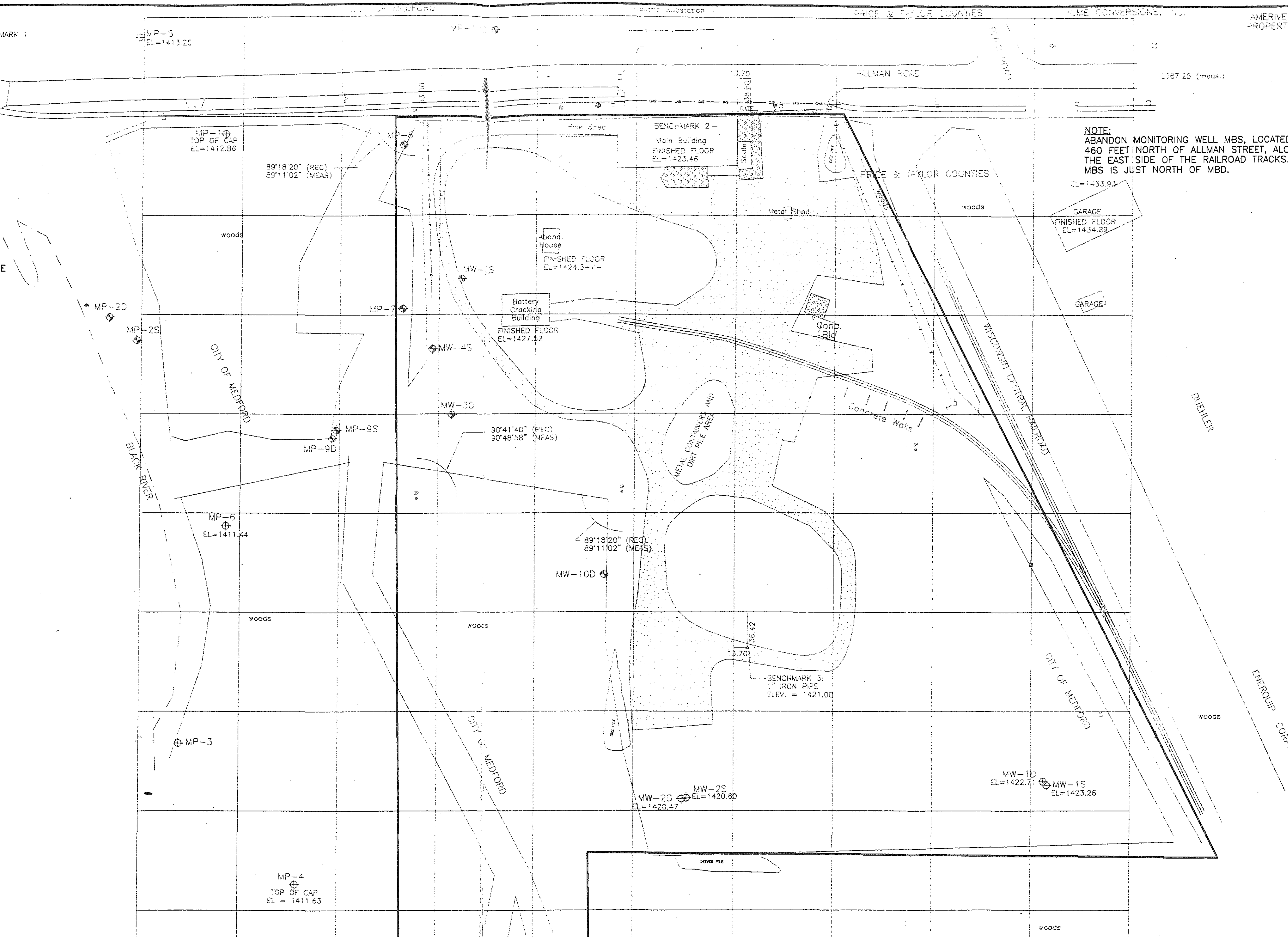
BENCHMARK 2= INSIDE OF DOOR AT "SE" CORNER OF MAIN BUILDING. ELEVATION=1423.46

BENCHMARK 3 = TOP OF 1" IRON PIPE ELEVATION=1421.00

4. SET PK NAILS IN ALLMAN RD. ON 100' NORTH/SOUTH GRID LINE 38.6' NORTH OF "NE" CORNER OF MAIN BUILDING, PARALLEL TO EAST/WEST GRID LINES

LEGEND:

- MONITORING WELL
- RAILROAD TRACKS
- GRAVELED AREA
- CONCRETE AREA
- SECTION CORNER
- 2" IRON PIPE FOUND.
- 1" IRON PIPE SET
- PK NAIL
- GAS VENT
- POWER POLE
- GUY WIRE
- GAS LINE
- FENCE LINE
- TELEPHONE PEDESTAL
- STREET LIGHT/POLE
- WELL
- SIGN
- CLEAN OUT
- CATCH BASIN
- WITNESS MONUMENT
- HYDRANT
- WOODED AREA
- APPROXIMATE PROPERTY BOUNDARY
- EXISTING MONITORING WELL



NO.	DATE	APPR.	REVISION	NO.	DATE	APPR.	REVISION

SCRAP PROCESSING

Medford Wisconsin

WESTON MANAGERS DESIGNERS/CONSULTANTS

VERNON HILLS ILLINOIS

CHECKED	DATE	CLIENT APPROVALS	DATE
DES. ENG.			
PROJ. ENG.			
PROJ. MGR.			
APPROVED			
APPROVED		ISSUED FOR	DATE

EXISTING SITE CONDITIONS

DRAWN	DATE	DWG. NO.	REV. NO.
D.C.H.	11/99	1-2	
SCALE	W.O. NO.	SHT. OF	
1"=100'	200640261007080		

NOTES:

1. BASELINE SURVEY PREPARED BY TN AND ASSOCIATES, INC. ENGINEERING AND SCIENCE, DECEMBER 1998.
2. THE POINT OF BEGINNING OF THE GRID SHOWN HEREON IS THE NORTHEASTERLY CORNER OF THE MAIN BUILDING WITH GRID LINES RUNNING PARALLEL WITH AND PERPENDICULAR TO THE NORTH LINE OF THE NORTHWEST 1/4 OF SECTION 27.
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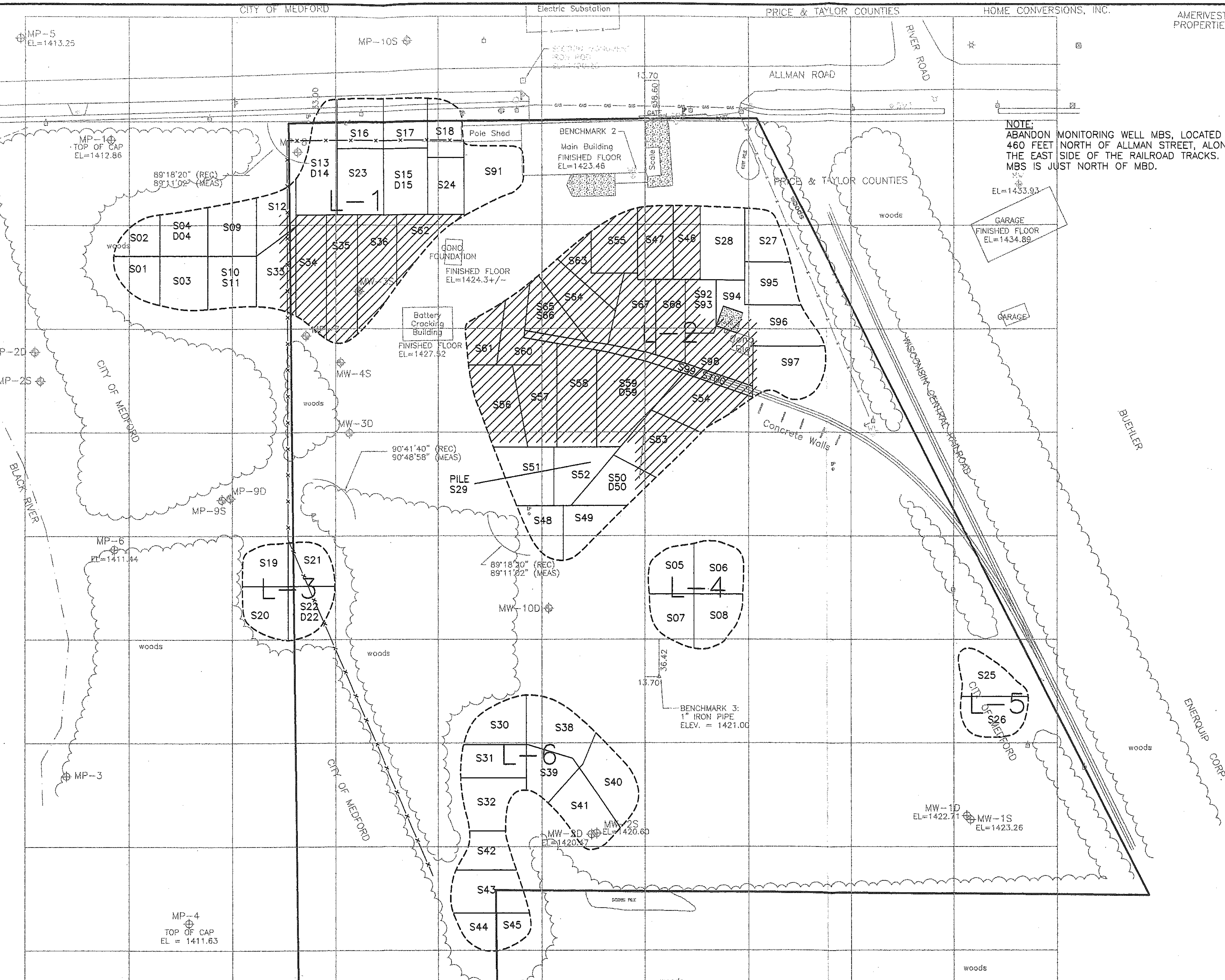
LEGEND:

- MONITORING WELL
- RAILROAD TRACKS
- CONCRETE AREA
- SECTION CORNER
- 2" IRON PIPE FOUND.
- 1" IRON PIPE SET
- PK NAIL
- GAS VENT
- POWER POLE
- GUY WIRE
- GAS LINE
- FENCE LINE
- TELEPHONE PEDESTAL
- STREET LIGHT/POLE
- WELL
- SIGN
- CLEAN OUT
- CATCH BASIN
- WITNESS MONUMENT
- HYDRANT
- WOODED AREA
- APPROXIMATE PROPERTY BOUNDARY
- EXISTING MONITORING WELL
- L-2 APPROXIMATE EXCAVATION AREA
- AREA REQUIRING SOIL STABILIZATION

NOTE:
SAMPLE S37 WAS TAKEN AT A DEPTH OF 4.5 FEET BELOW GROUND SURFACE FROM AREAS S15 AND S35.



1	10/00		RECORD DRAWINGS				
NO.	DATE	APPR.	REVISION	NO.	DATE	APPR.	REVISION

SCRAP PROCESSING

Medford — Wisconsin

WESTON MANAGERS DESIGNERS/CONSULTANTS

VERNON HILLS — ILLINOIS

CHECKED	DATE	CLIENT APPROVALS	DATE
DES. ENG.			
PROJ. ENG.			
PROJ. MGR.			
APPROVED			
APPROVED		ISSUED FOR	DATE

CONFIRMATION SOIL SAMPLING AREAS

DRAWN	DATE	DWG. NO.	REV. NO.
D.C.H.	10/00	3-1	1
SCALE 1"=100'	W.O. NO. 200640261000140	SHT. ___ OF ___	

NOTES:

1. BASELINE SURVEY PREPARED BY TN AND ASSOCIATES, INC. ENGINEERING AND SCIENCE, DECEMBER 1998.
2. THE POINT OF BEGINNING OF THE GRID SHOWN HEREON IS THE NORTHEASTERLY CORNER OF THE MAIN BUILDING WITH GRID LINES RUNNING PARALLEL WITH AND PERPENDICULAR TO THE NORTH LINE OF THE NORTHWEST 1/4 OF SECTION 27.
3. BENCHMARK 1= 3 CHISLED MARKS ON TOP OF GUARD RAIL, CENTER OF BRIDGE ON UPSTREAM SIDE. ELEVATION=1422.12

   BENCHMARK 2= INSIDE OF DOOR AT "SE" CORNER OF MAIN BUILDING. ELEVATION=1423.46

   BENCHMARK 3 = TOP OF 1" IRON PIPE ELEVATION=1421.00
4. SET PK NAILS IN ALLMAN RD. ON 100' NORTH/SOUTH GRID LINE 38.6' NORTH OF "NE" CORNER OF MAIN BUILDING, PARALLEL TO EAST/WEST GRID LINES

LEGEND:

- MONITORING WELL
- RAILROAD TRACKS
- CONCRETE AREA
- SECTION CORNER
- 2" IRON PIPE FOUND.
- 1" IRON PIPE SET
- PK NAIL
- GAS VENT
- POWER POLE
- GUY WIRE
- GAS LINE
- FENCE LINE
- TELEPHONE PEDESTAL
- STREET LIGHT/POLE
- WELL
- SIGN
- CLEAN OUT
- CATCH BASIN
- WITNESS MONUMENT
- HYDRANT
- WOODED AREA
- APPROXIMATE PROPERTY BOUNDARY
- EXISTING MONITORING WELL
- L-2 APPROXIMATE EXCAVATION AREA
- AREA REQUIRING SOIL STABILIZATION

NO.	DATE	APPR.	REVISION
1	10/00		RECORD DRAWINGS

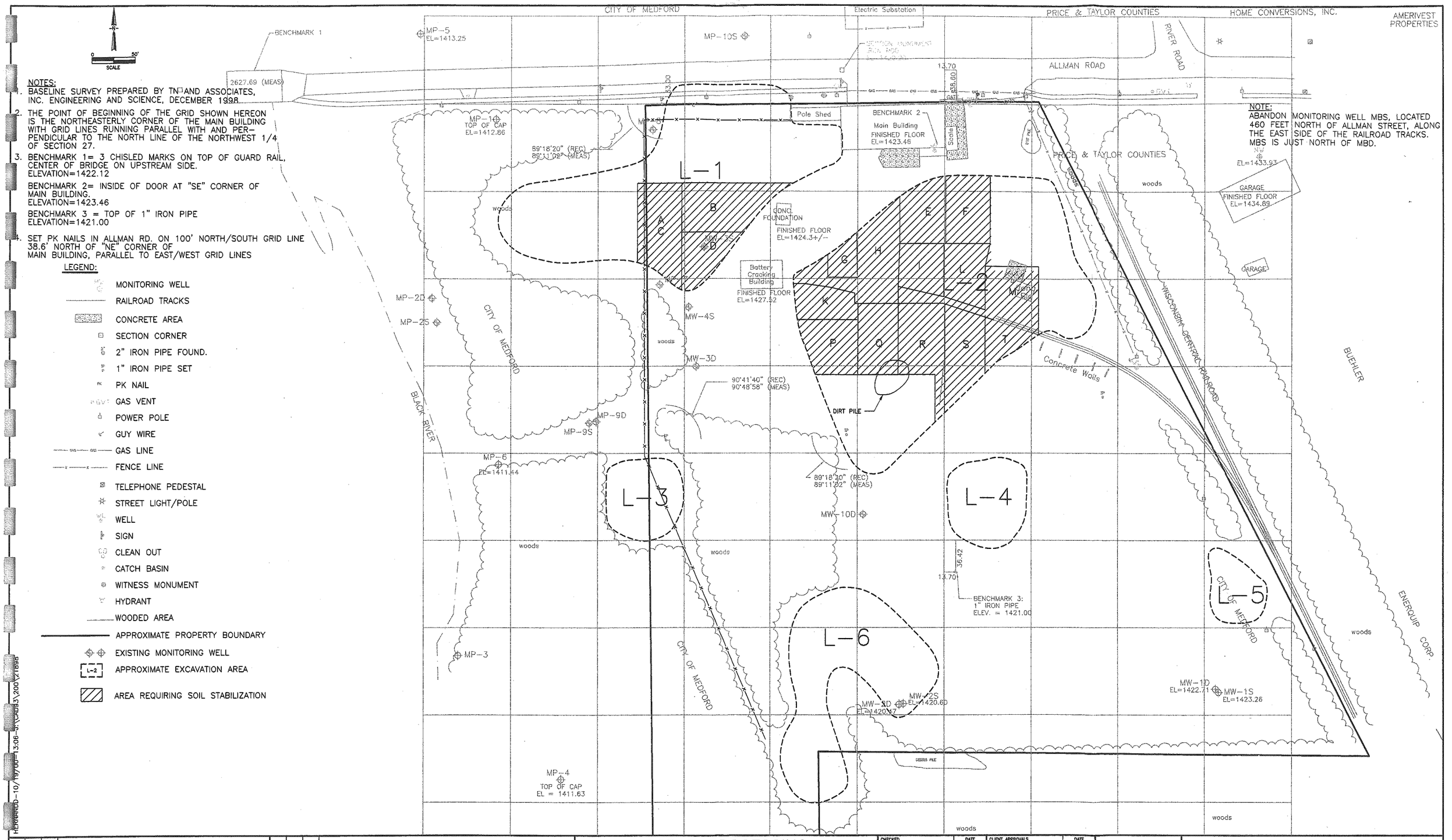
SCRAP PROCESSING

Medford, Wisconsin

WESTON — MANAGERS DESIGNERS/CONSULTANTS — VERNON HILLS, ILLINOIS

RE-SAMPLED CONFIRMATION SAMPLING AREAS

DRAWN	DATE	DWG. NO.	REV. NO.
D.C.H.	10/00	3-2	1
SCALE: 1"=100'	W.O. NO. 20064026100014O		



NO.	DATE	APPR.	REVISION
1	10/00		RECORD DRAWINGS

SCRAP PROCESSING

Medford Wisconsin

WESTON MANAGERS DESIGNERS/CONSULTANTS

VERNON HILLS ILLINOIS

CHECKED	DATE	CLIENT APPROVALS	DATE
DES. ENG.			
PROJ. ENG.			
PROJ. MGR.			
APPROVED			
APPROVED		ISSUED FOR	DATE

TCLP SAMPLING AREAS

DRAWN D.C.H.	DATE 10/00	DWG. NO. 3-3	REV. NO. 1
SCALE 1"=100'	W.O. NO. 20064026100140	SHT. ___ OF ___	

HERNANDD-10/19/00-13:06-R:\DGN\3\20026\18995

NOTES:

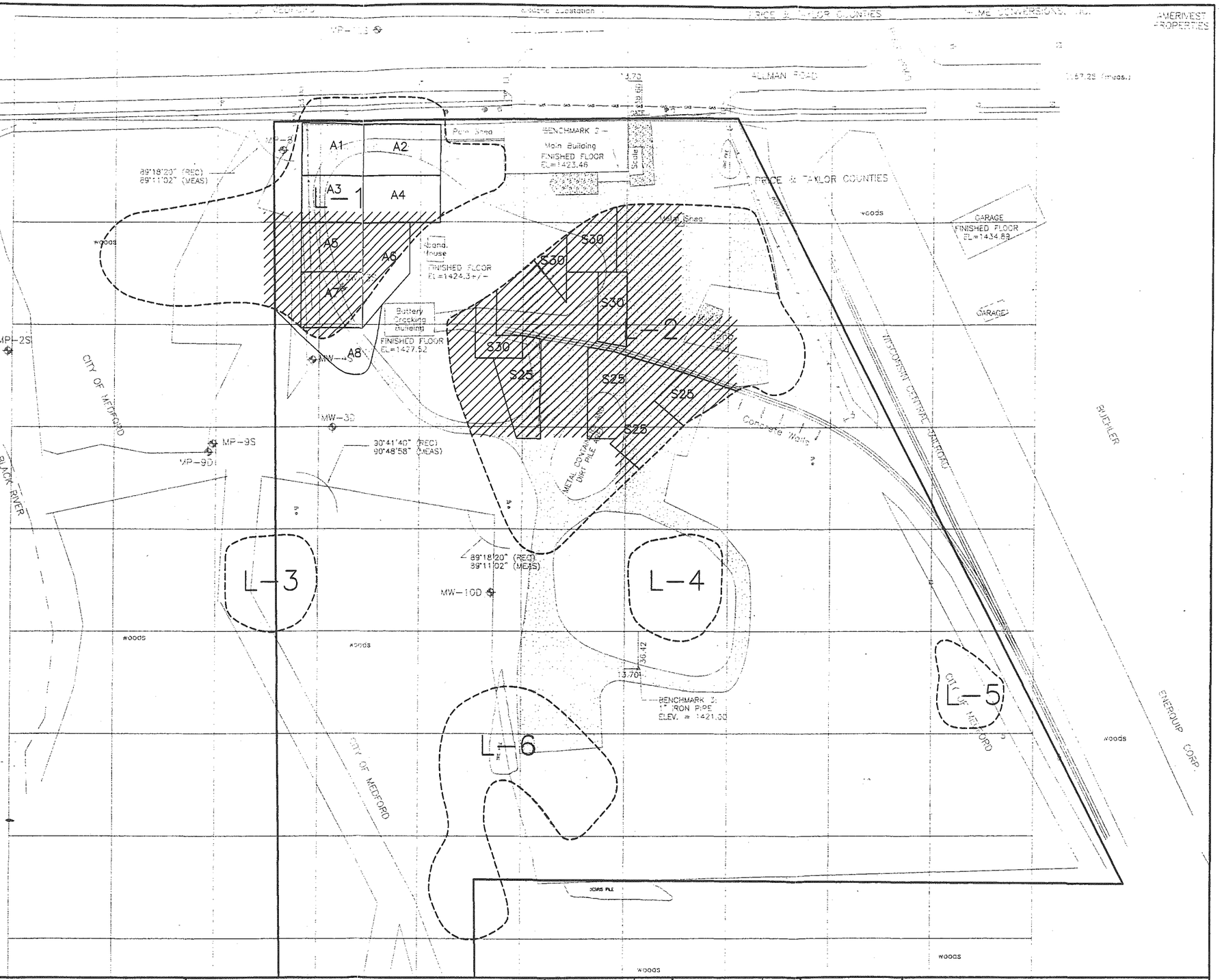
1. BASELINE SURVEY PREPARED BY TNT AND ASSOCIATES, INC. ENGINEERING AND SCIENCE, DECEMBER 1998
2. THE POINT OF BEGINNING OF THE GRID SHOWN HEREON IS THE NORTHEASTERLY CORNER OF THE MAIN BUILDING WITH GRID LINES RUNNING PARALLEL WITH AND PERPENDICULAR TO THE NORTH LINE OF THE NORTHWEST 1/4 OF SECTION 27.
3. BENCHMARK 1= 3 CHISLED MARKS ON TOP OF GUARD RAIL, CENTER OF BRIDGE ON UPSTREAM SIDE. ELEVATION=1422.12

   BENCHMARK 2= INSIDE OF DOOR AT "SE" CORNER OF MAIN BUILDING. ELEVATION=1423.46

   BENCHMARK 3 = TOP OF 1" IRON PIPE ELEVATION=1421.00
4. SET PK NAILS IN ALLMAN RD. ON 100' NORTH/SOUTH GRID LINE 38.6' NORTH OF "NE" CORNER OF MAIN BUILDING, PARALLEL TO EAST/WEST GRID LINES

LEGEND:

- MONITORING WELL
- RAILROAD TRACKS
- GRAVELED AREA
- CONCRETE AREA
- SECTION CORNER
- 2" IRON PIPE FOUND.
- 1" IRON PIPE SET
- PK NAIL
- GAS VENT
- POWER POLE
- GUY WIRE
- GAS LINE
- FENCE LINE
- TELEPHONE PEDESTAL
- STREET LIGHT/POLE
- WELL
- SIGN
- CLEAN OUT
- CATCH BASIN
- WITNESS MONUMENT
- HYDRANT
- WOODED AREA
- APPROXIMATE PROPERTY BOUNDARY
- L-2 APPROXIMATE EXCAVATION AREA
- AREA REQUIRING SOIL STABILIZATION



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NO.	DATE	APPR.	REVISION

NO.	DATE	APPR.	REVISION

SCRAP PROCESSING

Medford Wisconsin

WESTON MANAGERS DESIGNERS CONSULTANTS

VERNON HILLS ILLINOIS

	DATE
CHECKED	
DES. ENG.	
PROJ. ENG.	
PROJ. MGR.	
APPROVED	
APPROVED	

CLIENT APPROVALS	DATE
ISSUED FOR	DATE

RE-SAMPLED TCLP SAMPLING AREAS

DRAWN	DATE	DWG. NO.	REV. NO.
D.C.H.	11/99	3-4	
SCALE	W.O. NO.	SHT.	OF
1"=100'	200640261007080		

SECTION 2

CHRONOLOGY OF EVENTS

The following is a summary of the major events and the actual start dates associated with the remedial action, beginning with the signing of the ROD in of 1997. There are some activities that were ongoing throughout the project and the finish date coincides with project completion. The chronological events are discussed in more detail in Section Four, Construction Activities, of this document.

2.1 PRELIMINARY ACTIVITIES

A pre-construction meeting was held at the site on 7 October 1999.

WESTON issued the notice to proceed to its subcontractor, North Star Environmental Construction (NorthStar), on 13 October 1999.

Development of the Site Specific Health and Safety Plan and other pre-construction submittals and contractor pre-construction planning. Start date 18 October 1999 and completion date 5 November 1999. A submittal log is presented in Appendix A.

Pre-qualification of borrow sources started on 25 October 1999, by Ayres Associates, a subcontractor to NorthStar. Approval for the general fill material was received from the U.S. EPA on 15 November 1999.

Mobilization of construction equipment and subcontractors. Start date 26 October 1999. (This activity was ongoing throughout the project.)

The baseline survey and initial site layout and photographic documentation of conditions existing prior to construction activities. Start date was 27 October 1999 and was completed on 24 November 1999.

2.2 ONSITE ACTIVITIES

Construction of temporary field support facilities, mobilization of heavy equipment, and installation of erosion and sediment control structures (silt fence) along the west side of the site was initiated on 26 October 1999 and completed on 29 October 1999.

Clearing and grubbing of trees and brush within the limits of the excavation areas was started on 26 October and was completed on 5 November 1999.

Air monitoring during excavation activities began on 1 November 1999 and continued through excavation activities.

Excavation of designated contaminated areas began on 1 November 1999 and was completed on 7 December 1999.

Confirmation soil sampling of the excavated areas began on 1 November 1999 and was completed on 7 December 1999.

Installation of a decontamination pad began and was completed on 3 December 1999.

Transportation of excavated contaminated material to Cranberry Creek Landfill began 2 November 1999 and was completed on 7 December 1999.

The discovery of additional waste (battery casings) not defined in the remedial action occurred on 3 November 1999.

Stabilization of soil above the TCLP lead limit began on 3 November 1999.

TCLP sampling of stabilized soil began on 4 November 1999 and was completed on 29 November 1999.

Backfilling of excavated areas began on 17 November 1999.

Removal of surface water from Area L-1, on the west side of the site, began on 18 November 1999.

Compaction testing of backfilled areas began on 7 December 1999.

Installation of additional site monitoring wells and abandonment of existing monitoring wells began on 8 December 1999 and was completed on 15 December 1999. Monitoring well construction diagrams, monitoring well abandonment logs, monitoring well development logs, and soil boring logs are presented in Appendix B.

Baseline groundwater sampling was performed from 13 December 1999 to 17 December 1999.

A pre-final inspection of the remedial action construction activities was conducted on 21 December 1999.

North Star remobilized to the site on 1 May 2000 to finish grading and seeding activities.

Grading and seeding activities were completed on 5 May 2000.

The site security fence was installed on 31 May 2000.

A final inspection of the remedial action construction activities was conducted on 24 August 2000.

Some of the photographs of the construction activities performed at the Scrap Processing site are displayed in chronological order on the following pages.

Photo 1: Clearing and grubbing activities prior to the start of construction.

Photo 2: Installation of silt fence and safety fence prior to soil excavation.

Photo 3: Excavation of soil above the site cleanup objective of 500 mg/kg.

Photo 4: Soil above the TCLP lead limit of 5 mg/L was stabilized in-situ, stockpiled, and sampled prior to being disposed of off-site.

Photo 5: Excavated soil was transported off-site via the railroad to a solid waste landfill.

Photo 6: Buried battery casings were discovered on-site during excavation activities. Battery casings were stabilized and disposed of with excavated soil.

Photo 7: Excavated areas were backfilled with clean general fill from an off-site borrow source.

Photo 8: All backfilled areas were compacted and tested to meet the site compaction criteria.

SECTION 3

PERFORMANCE STANDARDS AND CONSTRUCTION QUALITY CONTROL

3.1 REMEDIAL ACTION PLANS

A site-specific Health and Safety Plan (HASP), Environmental Protection Plan, and Mobilization Plan were developed to ensure the proper implementation of the Scrap Processing (SP) remedial action.

- A HASP was developed for all phases of the SP remedial action, and implemented prior to mobilization to the site. The principal items addressed in the HASP are site description, submittals, training requirements, air monitoring, emergency response procedures, decontamination procedures, soil and groundwater sampling procedures, inspections, record-keeping, and reporting.

- The Environmental Protection Plan was developed to establish construction methods and procedures designed to minimize adverse environmental impacts and restore the SP site to a stable natural state. The plan provides an overview of the project and includes an erosion and sediment control plan; petroleum products control plan, waste disposal plan, and noise, dust, odor, and pest control plan. The Environmental Protection Plan was approved on 29 October 1999.

- The Mobilization Plan was developed to define the activities associated with mobilization and demobilization. The plan includes the traffic control plan and temporary facilities plan. The Mobilization Plan was approved on 29 October 1999.

3.2 QUALITY CONTROL TESTING

Prior to importing of any general fill material and topsoil to the site, two representative samples of the general fill and topsoil borrow sources were tested for Target Analyte List (TAL) and Target Compound List (TCL) parameters. Geotechnical tests were also performed on the general fill material.

The general fill layer was required to be compacted to 90% of the maximum unit weight. All tests performed either met or exceeded this requirement. A total of 61 field density tests were taken on the 12,840 cubic yards of general fill layer placed.

Both the surface course aggregate and the base course aggregate layers were required to be compacted to 95% of the maximum dry density. A total of 17-field density tests were performed on the 2,947 cubic yards of base course aggregate layer placed.

3.3 CONFIRMATION SAMPLING

Confirmation samples were taken on the bottoms and the walls of all excavated areas to determine if the cleanup objective for the site had been met. Five (5) samples per 2,500 square feet of excavated soil were collected, composited and tested for total lead. Twenty-one (21) of the excavated areas confirmation sample results exceeded the cleanup objective. These areas were re-excavated an additional 6 inches and then re-sampled. All excavated areas eventually tested below the cleanup objective of 500 mg/kg. Confirmation sampling data and locations can be viewed in Table 3-1and Drawing 3-1. Re-sampled locations can be viewed on Drawing 3-2. Sample locations on the drawings correspond to the last three characters of the "Project Sample Number" in Table 3-1.

The landfill stipulated that every 300 cubic yards of stabilized soil be analyzed for TCLP lead. When a TCLP lead analysis exceeded the TCLP lead limit of 5 mg/L, the stabilized soil where the sample was taken was re-stabilized using an additional 0.5% of stabilization reagent. All the stabilized soil on-site tested below the TCLP lead limit, and was disposed of at the landfill. TCLP sample data and locations can be viewed in Table 3-2 and Drawing 3-3. Re-sampled locations can be viewed on Drawing 3-4. Sample locations on the drawings correspond to the "Stabilization Area" column in Table 3-2.

3.4 PROJECT REPORTS AND CONTROLS SUMMARY

The following reports were used throughout the project for communication and tracking of progress:

- Daily reports summarizing the activities of each day were submitted to the WESTON Site Manager.
- Daily verbal communications were maintained between the Weston site personnel and the WESTON Site Manager.
- Weekly reports summarizing the primary activities of the week were submitted to the WESTON Site Manager, and after review, submitted to the U.S. EPA, WDNR, and the City of Medford.
- Monthly progress reports were prepared by the WESTON Site Manager and submitted to the U.S. EPA.
- Monthly meetings were held at the project site with all interested participants.

The following project controls were implemented to ensure that work was performed in compliance with project plans and specifications:

- Submittal log detailing the status of all submittals.
- Results of daily air monitoring were recorded in the air monitoring log.
- Confirmation soil samples and TCLP soil samples were recorded on site maps to keep track of sampled areas.
- Confirmation sampling and TCLP lead sampling results were documented in a sample analysis log.
- Project photos recording conditions, progress, and changes were maintained.
- Training log with information on employee Health and Safety training was maintained to ensure each site worker's training was current.
- An employee and visitors sign-in log was kept at the site to track personnel on site.

It should be noted that on 9 November 1999, Russhawn Jackson, a safety inspector for the Department of Health for the State of Wisconsin, visited the site for a routine inspection, and no health and safety violations were noted.

SECTION 4

CONSTRUCTION ACTIVITIES

The remediation of the SP site involved the excavation of lead contaminated soil which exceeded 500 mg/kg; stabilization of soil which exceeded the TCLP level of 5 mg/L; backfilling of excavated areas with clean fill and aggregate; transportation and disposal of excavated soil; and finish grading and seeding. Construction activities were completed on 17 December 1999 and finish grading and seeding activities were completed on 5 May 2000. The final SP site conditions are shown in Figures G-1 through G-6. The remediation effort included the following tasks:

- Construction of temporary facilities and temporary security fencing.
- Construction of a decontamination pad.
- Clearing and grubbing of trees and brush within the designated excavation areas.
- Installation of erosion control measures.
- Removal of onsite drummed waste derived from monitoring well installation activities.
- Excavation of contaminated soil in designated areas.
- Stabilization of soil, which exceeded the TCLP level of 5 mg/L.
- Transportation and disposal of excavated soil.
- Backfilling excavated areas with general fill and aggregate.
- Final grading and seeding.
- Installation of groundwater monitoring wells.
- Procuring laboratory to analyze groundwater samples.
- Sampling of groundwater monitoring wells.
- Installation of permanent site security fence.

Additional contaminated soil combined with battery casings was encountered during excavation in Area L-1, on the west side of the site. This discovery required additional excavation in this area up to a total depth of 5 feet below ground surface, beyond the depth of excavation originally defined. The additional 2,500 cubic yards of soil was excavated, stabilized, tested, and transported and disposed at the landfill.

All work was carried out by North Star, a subcontractor to WESTON, and second tier subcontractors.

4.1 MOBILIZATION AND DEMOBILIZATION

A pre-construction meeting was held at the site on 7 October 1999 to begin the project. Weston, NorthStar, Ayres, Superior Special Services, Inc., and Glenn Rehbein Excavating representatives were in attendance at the meeting. NorthStar began mobilization of job trailers to the site on 25 October 1999. Mobilization of heavy equipment and personnel began on 26 October 1999.

Mobilization and demobilization of heavy equipment and personnel was conducted throughout the duration of the project due to the various differing activities.

A pre-final inspection was held at the site on 21 December 1999 to conclude the construction activities until the spring, when finish grading and seeding were completed. The U.S. EPA, WDNR, Weston, and North Star representatives were in attendance at the inspection. Upon completion of the inspection, NorthStar demobilized all support facilities and remaining equipment.

Items completed as part of the mobilization/demobilization phases of the project include:

- Preparation and submission of a Health and Safety Plan.
- Mobilization and demobilization of heavy equipment and personnel.
- Topographic survey of pre-construction conditions and final conditions.
- Installation and removal of temporary field offices, temporary utilities, temporary security fence, and associated appurtenances.
- Submittals for various aspects of the project (see Appendix A for a complete list).
- Installation and removal of a decontamination pad and trailer for equipment.

The above activities were completed and met the intent of the project plans and specifications.

4.2 EROSION AND SEDIMENT CONTROL STRUCTURES

Erosion and sediment control structures were installed prior to excavation activities to minimize erosion and prevent excessive sediment from entering the Black River to the west.

Silt fence was installed along the west end of the most western designated excavation areas (L-1, L-3, and L-6) onsite.

4.3 CLEARING AND GRUBBING

NorthStar began clearing and grubbing trees and brush within the limits of the designated clearing and grubbing areas on 26 October 1999. Trees and brush were chipped and stockpiled onsite.

Clearing and grubbing activities were completed and met the intent of the project plans and specifications.

4.4 SOIL EXCAVATION

Soil excavation began on 1 November 1999. Prior to excavation, surveyors staked out the excavation areas, as designated on the drawings. The six (6) designated contaminated areas were excavated to 2 feet below ground surface. Some excavation areas were excavated to depths greater than 2 feet below ground surface in order to remove lead contaminated soil and meet the lead cleanup objective. The soil was hauled and stockpiled in an area north of the railroad tracks prior to being loaded into railcars for transportation and disposal at Cranberry Creek Landfill in Wisconsin Rapids.

Battery casings were found buried in excavation Area L-1. The casings were found at depths below excavation limits and beyond the designated excavation extents. It was decided with the concurrence of the U.S. EPA that excavation of all battery casings was necessary. Therefore, all battery casings were removed from the area and excavation depths ranged from 2 to 5 feet below ground surface. An additional 2,500 cubic yards of waste was removed from Area L-1.

4.5 SOIL STABILIZATION

Soil stabilization began on 3 November 1999. The soil that previously exceeded the TCLP lead limit, as determined during the remedial design, was stabilized using the stabilization reagent EnviroBlend®, which is a patented mixture of a phosphate solid and magnesium oxide. The soil that was to be stabilized was divided into 50 feet by 50 feet grids. The reagent was then spread over these divided areas at a 1% by weight addition and then wetted down with water. The soil and reagent were then mixed with an excavator until homogenous. The soil was then stockpiled in place, sampled, and analyzed for TCLP lead. TCLP samples were collected for every 300 cubic yards of stabilized soil. Once the TCLP results for the soil pile were below the TCLP lead limit of 5 mg/L, the soil was loaded into railcars and shipped to the landfill for final disposal.

The additional soil that was excavated in Area L-1, where battery casings were found, was also stabilized to reduce the TCLP lead levels below 5 mg/L. This resulted in an additional quantity of soil than was originally estimated to be stabilized. Therefore, additional stabilization reagent was required to complete stabilization at the site. Also, the soil that was filled with battery casings required additional stabilization reagent to stabilize the soil because it had TCLP lead concentrations higher than that of treatability study samples. Using 1 % reagent by weight on this soil did not reduce the leaching lead concentration to below 5 mg/L. The soil in this area was then restabilized using an additional 0.5% of reagent. Other soil in this area that had not been stabilized yet was stabilized using 1.5% reagent by weight instead of 1%.

All soil that was stabilized and shipped to the landfill for final disposal was sampled for TCLP lead and all sample results were below the TCLP lead limit of 5 mg/L.

4.6 SOIL TRANSPORTATION AND DISPOSAL

The excavated soil from the site was shipped to the Cranberry Creek Landfill in Wisconsin Rapids via the Wisconsin Central Railroad. Soil from the site was loaded into railcars using heavy equipment. Transportation and disposal of the site soil began on 2 November 1999 and the last shipment of soil was on 7 December 1999.

Before any soil could be shipped to the landfill, a multi-compound analysis of the site soil was submitted to the landfill for approval. Soil that had concentrations above the lead cleanup objective of 500 mg/kg, and met the TCLP lead levels, was allowed to be disposed of at the landfill with this analysis submittal. The landfill required that every 300 cubic yards of soil that was stabilized must be tested for TCLP lead.

4.7 BACKFILLING

Backfill material was imported to the site on 17 November 1999. Excavated areas that were to be revegetated were backfilled with general fill material to within 4 inches of ground surface. Excavated areas that were backfilled with gravel received general fill, geotextile road fabric, 6 inches of base coarse aggregate, and 4 inches of surface coarse aggregate. Different areas onsite were excavated to various depths in order to remove all lead contamination. While excavation areas were being backfilled, the fill materials were being compacted using heavy equipment. The general fill material was placed in 8-inch lifts and compacted to 90% of maximum unit weight and the aggregate materials were compacted to 95% of the maximum dry density.

4.8 TOPSOIL

Topsoil placement began on 2 May 2000. Excavated areas that required revegetation received 4 inches of topsoil. Topsoil was installed to a uniform grade and then raked. All topsoiled areas were seeded.

4.9 FENCE AND GATES

Installation of the permanent chain link fence and gate began on 25 May 2000 and was completed on 31 May 2000. The chain link fence was installed on the west and north sides of the site. It was not necessary to install fence along the south and east sides of the site due to the fact that these areas were heavily wooded. The main purpose of the chain link fence is to deny easy access to the site.

4.10 FINISH GRADING AND SEEDING

Finish grading and seeding began on 1 May 2000. All areas requiring revegetation were fertilized at a rate of 350 lbs/acre. The seed was uniformly sown with a spreader and watered. Mulch, consisting

mainly of straw, was evenly distributed over the entire seeded areas. Slopes in Areas L-1 and L-3 where slopes were greater than 1:2 required erosion control and were covered with an erosion control blanket. The western portion of Area L-1 adjacent to the river was sown with a wetland seed mixture.

4.11 PROBLEMS ENCOUNTERED

Problems encountered were mainly associated with discovery of the buried battery casings.

The discovery of the battery casings caused the need for additional excavation, stabilization, transportation, and disposal activities. The soil with the battery casings had to be stabilized with a higher percentage of stabilization reagent than all other stabilized soil. The landfill also required that this soil be analyzed for additional parameters according to the Wisconsin Department of Natural Resources "Contaminated Soil Analytical Requirements Protocol T2" in order to be accepted at the landfill for final disposal. Despite the additional activities and additional testing, quantity of material stabilized, excavated and disposed of at the SP site, the project was completed within the timeframe of the original schedule.

SECTION 5

FINAL INSPECTION

A pre-final inspection was conducted at the site on 21 December 1999. The inspection was attended by Lolita Hill, U.S. EPA, Remedial Project Manager; William Schultz, WDNR; Bill Karlovitz, WESTON; Becky Kusek, WESTON; Fran and Rob Siemers, NorthStar. The purpose of the inspection was to document any unfinished construction items, deficiencies, and method of corrective action. In May 2000, Weston and NorthStar returned to the site to topsoil and finish grading and seeding.

The final inspection was conducted on 24 August 2000. The inspection was attended by Lolita Hill (U.S. EPA) and Becky Kusek (WESTON), Vicki Kedrowski (NorthStar), Tom Kendrzierski (WNDR), John Neubauer (City of Medford), John Fales (City of Medford), and Mike Brandner (City of Medford). The purpose of the inspection was to document any unfinished construction items, deficiencies, and method of corrective action. No deficiencies were found.

SECTION 6

CERTIFICATION THAT REMEDY IS OPERATIONAL AND FUNCTIONAL

This section does not pertain to the Scrap Processing site because the remedy for this site did not contain operational and functional equipment.

SECTION 7

OPERATION AND MAINTENANCE

There are no operation and maintenance issues associated with the SP site.

SECTION 8

SUMMARY OF PROJECT COSTS

The total cost for construction of soil remediation was $1,272,656.20, which was based on the Final Design Report dated 11 August 1999.

These three change orders increased the total cost from the original bid amount of $841,084.50 to the final cost of:

Original bid amount	$841,054.50
Change Orders	
- Change Order No. 1	$223,875.00
- Change Order No. 2	$194,267.41
- Change Order No. 3	$ 13,459.33
ACTUAL TOTAL	$1,272,656.20

8.1 CHANGES IN WORK

The changes made to the Scrap Processing (SP) site scope of work have occurred in four areas: soil excavation, soil stabilization, soil sampling, and surface water removal.

8.2 SOIL EXCAVATION

Battery casings were found buried in Area L-1, at and below the depth of excavation (2 feet), and at and beyond the initial designated limits of excavation. It was decided, with the concurrence of the U.S. EPA, that all battery casings would be removed from the site. Therefore, all battery casings were removed from this area to a maximum depth of 5 feet below ground surface. An additional 2,500 cubic yards of soil and battery casings were excavated.

Seventeen (17) 2,500 square foot areas were excavated an additional 6 inches because the confirmation samples were above the lead cleanup objective. These additional excavation areas totaled 788 cubic yards of soil.

8.3 SOIL STABILIZATION

All the additional soil and battery casings excavated in and around Area L-1 were stabilized. This soil was stabilized with 1.5 % EnviroBlend$_{®}$ because the TCLP lead concentrations of the soil were much greater than that of the soil used in the treatability study. Without the addition of 1.5% stabilizing reagent the soil would not have met the required TCLP levels. All of the areas in Area L-1 that were excavated an additional 6 inches were stabilized, as well, due to the presence of battery casings.

8.4 SOIL SAMPLING

Since areas onsite had to be re-excavated and some stabilized soil piles had to be restabilized, additional confirmation sampling and TCLP lead sampling was required in order to meet the cleanup objective and dispose the soil at the landfill. An additional TCLP lead sample was collected at 6 inches below the depth of the buried battery casings in Area L-1 to determine the depth of contamination, and therefore, excavation. The landfill required that soil with battery casings be analyzed for additional parameters prior to disposal at the landfill. Also, two TCLP lead samples were collected for additional treatability testing.

8.5 SURFACE WATER REMOVAL

The groundwater level on the west side of the site in the lowland area was high, about 0 to 0.5 feet below ground surface. When excavating in this area, the water filled the excavation areas. Also, there was much groundwater from the highland area in Area L-1. Once this soil was excavated, the water flowed from the highland to the lowland in Area L-1. A water quality analysis was performed

on the water for disposal purposes. Before backfill could be brought into this excavated area, the surface water was removed via a sump and centrifugal pump. The water was pumped into a polyethylene tank and then transferred to a tanker truck. The water was then transported by truck to the Bloomer Wastewater Treatment Plant.

8.6 CHANGE ORDERS

Change Order No. 1 :

Change Order No. 1 includes all labor, equipment, and material to modify the contract for the excavation, stabilization, transportation, and disposal of soil from Area L-1, which included significant quantities of shredded and chopped battery casings. The estimated volume of material to be removed was 2,500 cubic yards. This change order also included the removal and disposal of surface and groundwater from the excavated Area L-1, additional general fill required to backfill the additional excavation areas, and additional laboratory testing. The additional laboratory testing was for parameters required by the landfill to determine if the battery casings and soil could be disposed of at the landfill, additional TCLP lead analysis for test sample at approximately 6 inches below limits of the battery casings, two TCLP lead analyses for additional treatability testing, and water quality parameters for groundwater disposal.

The cost associated with Change Order No. 1 was $223,875.00.

Change Order No. 2:

Change Order No. 2 includes all labor, equipment, and material to modify the contract for the excavation, stabilization, transportation, and disposal of soil from Areas L-1 and L-2. Area L-1 contained quantities of shredded and chopped battery casings. Change order No. 1 consisted of an estimated volume of additional material in Area L-1 to be removed. Change order No. 2 includes the

removal of soil in Area A-1 that was beyond the initial estimated volume. This change order also includes additional general fill required to backfill the additional excavation areas, and additional base course aggregate. The volume of additional excavated soil was 546 cubic yards.

The cost associated with Change Order No. 2 was $194,267.41.

Change Order No. 3:

Change Order No. 3 includes all labor, equipment, and material to modify the contract for the clearing and grubbing of the west side of the site in order to install the site security fence. This change order also includes additional quantities of base coarse aggregate to backfill the additional excavation areas included in Change Order No. 2. The volume of additional base coarse aggregate was 60 cubic yards.

The cost associated with Change Order No. 3 was $13,459.33.

APPENDIX A

SUBMITTAL LOG
SCRAP PROCESSING -
NORTH STAR ENV. CONST.

Section	Submittal	Number	Submittal Date	Return Date	Approval Date	Status	Notes
1050	**Site Survey**						
	Clear and Grub Survey	D-01050-002-B	12/14/99	12/29/99	12/29/99	1	
	Waste Excavation and Stabilization Map	D-01050-004-A	2/2/00	2/4/00	2/4/00	1	
	General Fill Survey Map	D-01050-005-A	1/7/00	1/12/99	1/12/99	1	
	Top of gravel Survey Map	D-01050-006-A	1/7/00	1/12/99	1/12/99	1	
	Final Cover Survey	D-01050-009-B	7/31/00	8/4/00	8/4/00	1	
	Monitoring Well Survey	D-01050-007-A	1/21/00	1/26/00	1/26/00	1	
	Monitoring Well Locations and Elev. Table	D-01050-008-A	1/21/00	1/26/00	1/26/00	1	
1100	**Environmental Protection**						
	Env. Protection Plan	M-01100-001-A	10/18/99	10/21/99	10/29/99	1	
	PreCon Walkthrough Photos						
1300	**Submittals**						
	Submittal Log		10/18/99			1	
	Construction Schedule	M-01300-001-A	10/18/99	10\21\99	10\21\99	1	
	Subcontractor List						
	Material/Equipment List	S-01300-001-A	10/18/99	10\21\99	10\21\99	1	
1390	**Health and Safety**						
	Health & Safety Plan	M-01390-001-A	10/18/99	10/25/99	11/5/99	1	
	Hazwoper Certifications	M-01390-001-A	10/18/99	10\21\99	10\21\99	1	
1400	**Contractors Quality Control**						
	General Fill TAL/TCL	S-01400-002-A	11/2/99	11/5/99	11/5/99	1	
	General Fill Geotechnical	S-02200-001-A, S-02200-002-A, S-02200-005-A, S-02200-006-A	10/25/99	10\21\99	10/29/99	1	
	Base Course Geotechnical	S-02200-003-A, S-02200-007-A	10/25/99	10\21\99	10/29/99	1	
	Surface Course Geotechnical	S-02200-004-A, S-02200-008-A	10/25/99	10\21\99	10/29/99	1	
	Topsoil TAL/TCL	S-01400-003-A	1/21/00	2/2/00	2/2/00	1	
	Topsoil Chemical- Nutrient	S-01400-004-A	2/15/00	2/24/00	2/24/00	1	
	Contractor's Quality Control Plan	M-01400-001-A	10/18/99	10\21\99	10\21\99	1	
	Nuclear Compaction Tests	S-01400-004-A	10/16/00	10/17/00	10/17/00	1	
1505	**Mobilization/Demobilization**						
	Truck Hauling Routes	M-01505-002-A	10/25/99	10/29/99	10/29/99	1	
	Mobilization Plan	M-01505-001-A	10/18/99	10/21/99	10/29/99	1	
2080	**Decontamination**						
	Decon pad geomembrane	D-2080-001-A	10/18/99	10\21\99	10\21\99	1	
	Decon pad construction	D-02080-002-A	11/1/99	11/5/99	11/5/99	1	
	Decon pad geotextile	D-02200-009-A	10/25/99	10/29/99	10/29/99	1	
2200	**Earthwork**						
	Polypropylene fabric - Roadway	D-02080-001-A	10/18/99	10/21/99	10/29/99	1	
	Compaction Tests - General Fill						
	Compaction Tests - Aggregates						
	Gravel Base Course Moisture Density Test	S-02220-009-A	1/7/00	1/12/00	1/12/00	1	
2210	**Soil Excavation**						
	Stockpile pad - geotextile	D-02210-001-A	10/18/99	10\21\99	10\21\99	1	
	Treatability Study	D-02210-002-A	10/25/99	10/29/99	11/5/99	1	
	TCLP Tests (new)	S-02210-003-A	11/22/99	11/29/99	11/29/99	1	
2540	**Erosion & Sediment Control**						
	Silt Fence	D-02540-001-A	10/18/99	10/21/99	10/29/99	1	
2831	**Fences and Gates**						
	Chain Link Security Fence	D-02831-001-A	5/17/00	5/23/00	5/23/00	1	
2930	**Finish Grading and Seeding**						
	Wetland Seed	D-02930-002-A	4/26/00		4/26/00	1	
	Other Seed	D-02930-001-A	4/26/00		4/26/00	1	
	Fertilizer	D-02930-003-A	4/26/00		4/26/00	1	
	Miscellaneous						
	Lab Qualifications	--	10/18/99	10/21/99	10/21/99	1	

APPENDIX B

State of Wisconsin
Department of Natural Resources Route To: Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment ☐ Other ☐

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 6-97

Facility/Project Name: Scrap Site	Local Grid Location of Well: ____ ft. ☐N. ☐S. ____ ft. ☐E. ☐W.	Well Name: MP-8
Facility License, Permit or Monitoring No.	Grid Origin Location (Check if estimated: ☐) Lat. ° ' " Long. ° ' " or	Wis. Unique Well No. / DNR Well Number
Facility ID: 34101632	St. Plane ____ ft. N, ____ ft. E. S/C/N	Date Well Installed: 12/14/1999
Type of Well: Well Code 12/pz	Section Location of Waste/Source: ____ 1/4 of ____ 1/4 of Sec. ____, T. ____ N, R. ____ ☐E ☐W	Well Installed By: (Person's Name and Firm): M. Mueller
Distance Well Is From Waste/Source Boundary: ____ ft.	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Boart Longyear

A. Protective pipe, top elevation ____ ft. MSL
B. Well casing, top elevation 1.50 ft. MSL
C. Land surface elevation ____ ft. MSL
D. Surface seal, bottom ____ ft. MSL or 1.0 ft.

12. USC classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis attached? ☐ Yes ☐ No

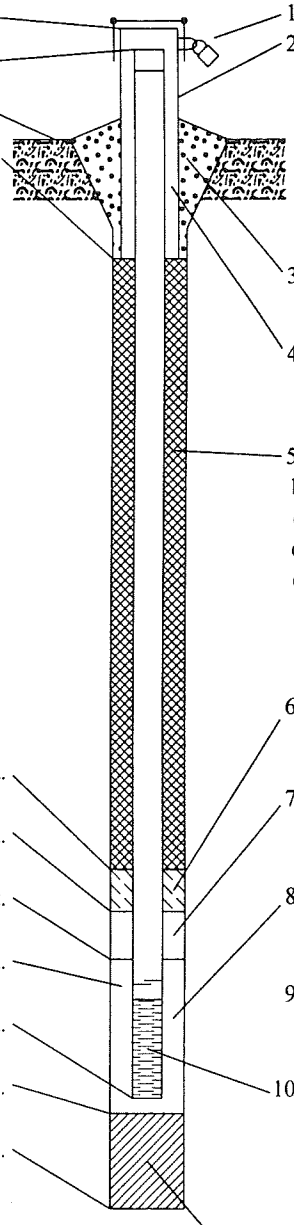
14. Drilling method used: Rotary ☐ 50 Hollow Stem Auger ☒ 41 ____ Other ☐ __

15. Drilling fluid used: Water ☐ 02 Air ☐ 01 Drilling Mud ☐ 03 None ☐ 99

16. Drilling additives used? ☐ Yes ☒ No
Describe ____

17. Source of water (attach analysis): ____

E. Bentonite seal, top ____ ft. MSL or 1.0 ft.
F. Fine sand, top ____ ft. MSL or 6.0 ft.
G. Filter pack, top ____ ft. MSL or 8.0 ft.
H. Screen joint, top ____ ft. MSL or 10.0 ft.
I. Well bottom ____ ft. MSL or 20.0 ft.
J. Filter pack, bottom ____ ft. MSL or 20.5 ft.
K. Borehole, bottom ____ ft. MSL or 20.5 ft.
L. Borehole, diameter 8.0 in.
M. O.D. well casing 2.37 in.
N. I.D. well casing 2.06 in.



1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: 4.0 in.
b. Length: 7.0 ft.
c. Material: Steel ☒ 04 ____ Other ☐ __
d. Additional protection? ☒ Yes ☐ No
If yes, describe: 4" Bumper Post
3. Surface seal: Bentonite ☐ 30 Concrete ☒ 01 ____ Other ☐ __
4. Material between well casing and protective pipe: Bentonite ☐ 30 #30 Sand Other ☒ __
5. Annular space seal: a. Granular Bentonite ☒ 33
b. ____Lbs/gal mud weight . Bentonite-sand slurry ☐ 35
c. ____Lbs/gal mud weight . . . Bentonite slurry ☐ 31
d. ____% Bentonite . . . Bentonite-cement grout ☐ 50
e. ____Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 01 Tremie pumped ☐ 02 Gravity ☒ 08
6. Bentonite seal: a. Bentonite granules ☒ 33
b. ☐ 1/4 in. ☐ 3/8 in. ☐ 1/2 in. Bentonite pellets ☐ 32
c. ____ Other ☐ __
7. Fine sand material: Manufacturer, product name and mesh siz
a. #7 Badger
b. Volume added ____ ft^3
8. Filter pack material: Manufacturer, product name and mesh si
a. #30 American Materials
b. Volume added ____ ft^3
9. Well casing: Flush threaded PVC schedule 40 ☒ 23 Flush threaded PVC schedule 80 ☐ 24 ____ Other ☐ __
10. Screen material: PVC
a. Screen Type: Factory cut ☐ 11 Continuous slot ☒ 01 ____ Other ☐ __
b. Manufacturer Boart Longyear
c. Slot size: 0.010 in.
d. Slotted length: 10.0 ft.
11. Backfill material (below filter pack): None ☒ 14 ____ Other ☐ __

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature ____ Firm Boart Longyear, 101 Alderson St. Schofield, WI 54476 Tel: (715)359-7090 Fax: (715)355-5715

Please complete both Forms 4400-113A and 4400-113B and return to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and condut involved. Personnally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 5-97

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Scrap Site		MP-8

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Boart Longyear - M. Mueller	12/14/1999	12/14/1999	4 1/4 HSA

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		MP-8	Feet MSL	Feet MSL	8.0 Inches

Boring Location or Local Grid Origin (Check if estimated: ☐)
State Plane S / C / N
1/4 of 1/4 of Section , T N, R
Lat. ° ' "
Long. ° ' "
Local Grid Location (If applicable)
☐ N ☐ E
Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
34101632	Taylor	61	Medford

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 SS	24 12	6 10 5 5	1–5	CLAY			▼			W				
			5–6	Brn. M-F SAND										
			6–11	Very Fine SAND, Trc. Silt										
2 SS	24 16	1 6 12 18	9–10							W				
			11–12	M-F SAND										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature [signature] Firm Boart Longyear
101 Alderson St. Schofield, WI 54476
Tel: (715)359-709(
Fax: (715)355-5715

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completions of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT

Form 4400-122A Rev. 5-97

Boring Number MP-8 Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
3 SS	24 5	5 12 4 3	13 14 15 16 17 18 19 20	EOB @ 20.5' Well Set @ 20.0'						W				

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 6-97

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	County	Well Name
Scrap Site	Taylor	MP-8
Facility License, Permit or Monitoring Number	**County Code**	**Wis. Unique Well Number** / **DNR Well Number**
	61	

1. Can this well be purged dry? ☒ Yes ☐ No

2. Well development method:

surged with bailer and bailed	☐	41
surged with bailer and pumped	☒	61
surged with block and bailed	☐	42
surged with block and pumped	☐	62
surged with block, bailed, and pumped	☐	70
compressed air	☐	20
bailed only	☐	10
pumped only	☐	51
pumped slowly	☐	50
other _____	☐	--

3. Time spent developing well 50 min.

4. Depth of well (from top of well casing) 21.5 ft.

5. Inside diameter of well 2.06 in.

6. Volume of water in filter pack and well casing gal.

7. Volume of water removed from well 30 gals. gal.

8. Volume of water added (if any) gal.

9. Source of water added _____

10. Analysis performed on water added? ☐ Yes ☐ No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing) a.	1.38 ft.	2.10 ft.
Date b.	12/15/1999	12/15/1999
Time c.	01:45 pm	02:35 pm
12. Sediment in well bottom	.010 inches	0.0 inches
13. Water clarity	Clear ☐ 10 Turbid ☒ 15	Clear ☐ 20 Turbid ☒ 25
(Describe)	Brn. Silty	Cloudy

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	mg/l	mg/l
15. COD	mg/l	mg/l

16. Well developed by: Person's Name and Firm
G. Jones
Boart Longyear

17. Additional comments on development:

Facility Address or Owner/Responsible Party Address

Name: _____

Firm: _____

Street: _____

City/State/Zip: _____

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: _____

Print Name: Ron Thalacker

Firm: Boart Longyear

NOTE: See instructions for more information including a list of county codes and well type codes.

State of Wisconsin
Department of Natural Resources

Route To: Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment ☐ Other ☐

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 6-97

Facility/Project Name: Scrap Site	Local Grid Location of Well: ____ ft. ☐N. ☐S. ____ ft. ☐E. ☐W.	Well Name: MP-7
Facility License, Permit or Monitoring No.	Grid Origin Location (Check if estimated: ☐) Lat. ° ' " Long. ° ' " or St. Plane ____ ft. N, ____ ft. E. S/C/N	Wis. Unique Well No. / DNR Well Number
Facility ID: 34101632		Date Well Installed: 12/15/1999
Type of Well: Well Code 12/pz	Section Location of Waste/Source: ____ 1/4 of ____ 1/4 of Sec. ____, T. ____ N, R. ____ ☐E ☐W	Well Installed By: (Person's Name and Firm): M. Mueller
Distance Well Is From Waste/Source Boundary: ____ ft.	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Boart Longyear

A. Protective pipe, top elevation ____ ft. MSL

B. Well casing, top elevation 1.50 ft. MSL

C. Land surface elevation ____ ft. MSL

D. Surface seal, bottom ____ ft. MSL or 1.0 ft.

12. USC classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis attached? ☐ Yes ☐ No

14. Drilling method used: Rotary ☐ 5 0
Hollow Stem Auger ☒ 4 1
____ Other ☐ __

15. Drilling fluid used: Water ☐ 0 2 Air ☐ 0 1
Drilling Mud ☐ 0 3 None ☐ 9 9

16. Drilling additives used? ☐ Yes ☒ No

Describe ____

17. Source of water (attach analysis):

E. Bentonite seal, top ____ ft. MSL or 1.0 ft.

F. Fine sand, top ____ ft. MSL or 6.0 ft.

G. Filter pack, top ____ ft. MSL or 8.0 ft.

H. Screen joint, top ____ ft. MSL or 10.0 ft.

I. Well bottom ____ ft. MSL or 20.0 ft.

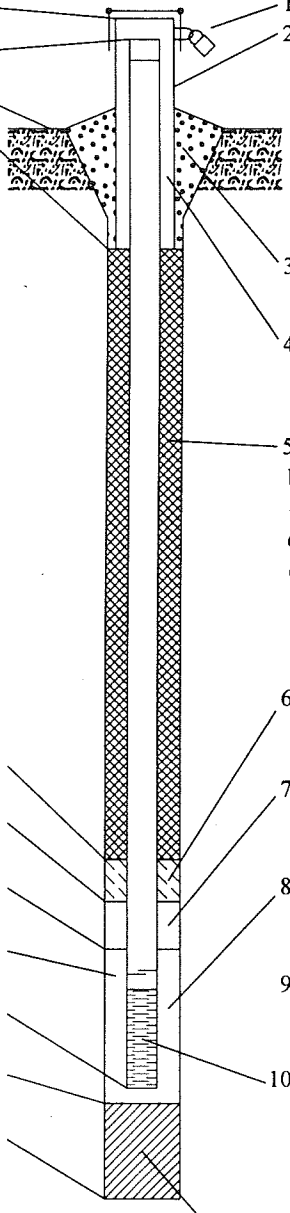
J. Filter pack, bottom ____ ft. MSL or 20.5 ft.

K. Borehole, bottom ____ ft. MSL or 20.5 ft.

L. Borehole, diameter 8.0 in.

M. O.D. well casing 2.37 in.

N. I.D. well casing 2.06 in.



1. Cap and lock? ☒ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: 4.0 in.
b. Length: 7.0 ft.
c. Material: Steel ☒ 0 4
____ Other ☐ __
d. Additional protection? ☒ Yes ☐ No
If yes, describe: 4" Bumper Post

3. Surface seal: Bentonite ☐ 3 0
Concrete ☒ 0 1
____ Other ☐ __

4. Material between well casing and protective pipe:
Bentonite ☐ 3 0
#30 Sand Other ☒ __

5. Annular space seal: a. Granular Bentonite ☒ 3 3
b. ____Lbs/gal mud weight . Bentonite-sand slurry ☐ 3 5
c. ____Lbs/gal mud weight . . . Bentonite slurry ☐ 3 1
d. ____% Bentonite . . . Bentonite-cement grout ☐ 5 0
e. ____Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 0 1
Tremie pumped ☐ 0 2
Gravity ☒ 0 8

6. Bentonite seal: a. Bentonite granules ☒ 3 3
b. ☐ 1/4 in. ☐ 3/8 in. ☐ 1/2 in. Bentonite pellets ☐ 3 2
c. ____ Other ☐ __

7. Fine sand material: Manufacturer, product name and mesh siz
a. #7 Badger __
b. Volume added ____ ft^3

8. Filter pack material: Manufacturer, product name and mesh si
a. #30 American Materials __
b. Volume added ____ ft^3

9. Well casing: Flush threaded PVC schedule 40 ☒ 2 3
Flush threaded PVC schedule 80 ☐ 2 4
____ Other ☐ __

10. Screen material: PVC __
a. Screen Type: Factory cut ☐ 1 1
Continuous slot ☒ 0 1
____ Other ☐ __
b. Manufacturer Boart Longyear
c. Slot size: 0.010 in
d. Slotted length: 10.0 ft

11. Backfill material (below filter pack): None ☒ 1 4
____ Other ☐ __

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: [signature]

Firm: Boart Longyear
101 Alderson St. Schofield, WI 54476

Tel: (715)359-7090
Fax: (715)355-5715

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 5-97

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Scrap Site		MP-7

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Boart Longyear - M. Mueller	12/15/1999	12/15/1999	4 1/4 HSA

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		MP-7	Feet MSL	Feet MSL	8.0 Inches

Boring Location or Local Grid Origin (Check if estimated: ☐)
State Plane S / C / N
1/4 of 1/4 of Section , T N, R
Lat. ° ' "
Long. ° ' "
Local Grid Location (If applicable)
Feet ☐ N ☐ S Feet ☐ E ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
34101632	Taylor	61	Medford

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 SS	24 16	6 9 12 16	1–6	Brn. M-F SAND			▼			W				
2 SS	24 15	16 16 19 12	6–12	Brn. SAND & GRAVEL						W				

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature [signature] Firm Boart Longyear
101 Alderson St. Schofield, WI 54476
Tel: (715)359-7090
Fax: (715)355-5715

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT

Form 4400-122A Rev. 5-97

Boring Number MP-7 Use only as an attachment to Form 4400-122. Page 2 of 2

Sample									Soil Properties						
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
3 SS	24 2	50/4	13 14 15 16 17 18 19 20	EOB @ 20.5' Well Set @ 20.0'						W				

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 6-97

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	County	Well Name
Scrap Site	Taylor	MP-7

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well Number
	61		

1. Can this well be purged dry? ☒ Yes ☐ No

2. Well development method:

surged with bailer and bailed	☐	41
surged with bailer and pumped	☒	61
surged with block and bailed	☐	42
surged with block and pumped	☐	62
surged with block, bailed, and pumped	☐	70
compressed air	☐	20
bailed only	☐	10
pumped only	☐	51
pumped slowly	☐	50
other _____	☐	__

3. Time spent developing well 60 min.

4. Depth of well (from top of well casing) 21.5 ft.

5. Inside diameter of well 2.06 in.

6. Volume of water in filter pack and well casing gal.

7. Volume of water removed from well 40 gals. gal.

8. Volume of water added (if any) gal.

9. Source of water added _____

10. Analysis performed on water added? ☐ Yes ☐ No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing) a.	5.43 ft.	5.80 ft.
Date b.	12/15/1999	12/15/1999
Time c.	03:00 pm	04:00 pm
12. Sediment in well bottom	.010 inches	0.0 inches
13. Water clarity	Clear ☐ 10 Turbid ☒ 15	Clear ☐ 20 Turbid ☒ 25
(Describe)	Dk. Brown	Lt. Brown

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	mg/l	mg/l
15. COD	mg/l	mg/l

16. Well developed by: Person's Name and Firm
G. Jones
Boart Longyear

17. Additional comments on development:

Facility Address or Owner/Responsible Party Address

Name: _____

Firm: _____

Street: _____

City/State/Zip: _____

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: _____

Print Name: Ron Thalacker

Firm: Boart Longyear

NOTE: See instructions for more information including a list of county codes and well type codes.

State of Wisconsin
Department of Natural Resources Route To: Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment ☐ Other ☐

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 6-97

Facility/Project Name: Scrap Site	Local Grid Location of Well: ____ ft. ☐ N. ☐ S. ____ ft. ☐ E. ☐ W.	Well Name: MP-2D
Facility License, Permit or Monitoring No.	Grid Origin Location (Check if estimated: ☐) Lat. ° ' " Long. ° ' " or	Wis. Unique Well No. / DNR Well Number
Facility ID: 34101632	St. Plane ____ ft. N, ____ ft. E. S/C/N	Date Well Installed: 12/10/1999
Type of Well: Well Code 12/pz	Section Location of Waste/Source: ____ 1/4 of ____ 1/4 of Sec. ____, T. ____ N, R. ____ ☐ E ☐ W	Well Installed By: (Person's Name and Firm): M. Mueller
Distance Well Is From Waste/Source Boundary ft.	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Boart Longyear

A. Protective pipe, top elevation ____ ft. MSL
B. Well casing, top elevation 2.50 ft. MSL
C. Land surface elevation ____ ft. MSL
D. Surface seal, bottom ____ ft. MSL or 1.0 ft.

12. USC classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis attached? ☐ Yes ☐ No

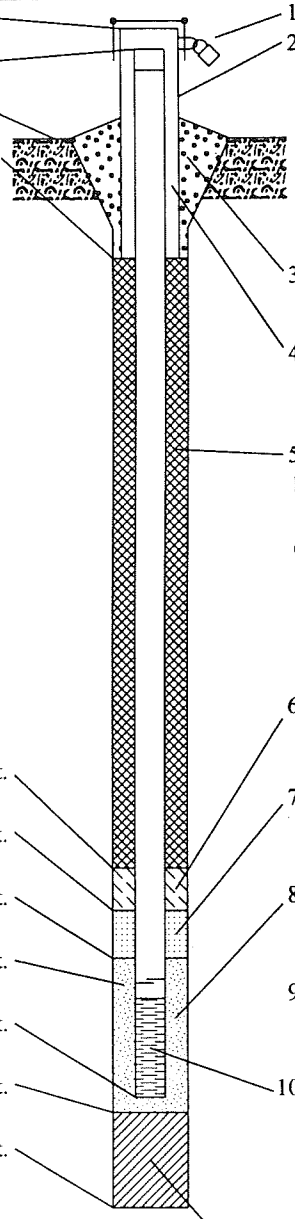
14. Drilling method used: Rotary ☐ 5 0 / Hollow Stem Auger ☒ 4 1 / ____ Other ☐ __

15. Drilling fluid used: Water ☐ 0 2 Air ☐ 0 1 Drilling Mud ☐ 0 3 None ☐ 9 9

16. Drilling additives used? ☐ Yes ☒ No
Describe ____

17. Source of water (attach analysis): ____

E. Bentonite seal, top ____ ft. MSL or 1.0 ft.
F. Fine sand, top ____ ft. MSL or NA ft.
G. Filter pack, top ____ ft. MSL or 40.0 ft.
H. Screen joint, top ____ ft. MSL or 45.0 ft.
I. Well bottom ____ ft. MSL or 55.0 ft.
J. Filter pack, bottom ____ ft. MSL or 55.0 ft.
K. Borehole, bottom ____ ft. MSL or 55.0 ft.
L. Borehole, diameter 8.0 in.
M. O.D. well casing 2.37 in.
N. I.D. well casing 2.06 in.



1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: 4.0 in.
b. Length: 7.0 ft.
c. Material: Steel ☒ 0 4 / ____ Other ☐ __
d. Additional protection? ☒ Yes ☐ No
If yes, describe: 4" Bumper Post
3. Surface seal: Bentonite ☐ 3 0 / Concrete ☒ 0 1 / ____ Other ☐ __
4. Material between well casing and protective pipe: Bentonite ☐ 3 0 / #30 Sand Other ☒ __
5. Annular space seal: a. Granular Bentonite ☒ 3 3
b. ____ Lbs/gal mud weight . Bentonite-sand slurry ☐ 3 5
c. ____ Lbs/gal mud weight . . . Bentonite slurry ☐ 3 1
d. ____ % Bentonite . . . Bentonite-cement grout ☐ 5 0
e. ____ Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 0 1 / Tremie pumped ☐ 0 2 / Gravity ☒ 0 8
6. Bentonite seal: a. Bentonite granules ☒ 3 3
b. ☐ 1/4 in. ☐ 3/8 in. ☐ 1/2 in. Bentonite pellets ☐ 3 2
c. ____ Other ☐ __
7. Fine sand material: Manufacturer, product name and mesh size
a. NA __
b. Volume added ____ ft^3
8. Filter pack material: Manufacturer, product name and mesh size
a. PrePack Screen & Native __
b. Volume added ____ ft^3
9. Well casing: Flush threaded PVC schedule 40 ☒ 2 3 / Flush threaded PVC schedule 80 ☐ 2 4 / ____ Other ☐ __
10. Screen material: PVC __
a. Screen Type: Factory cut ☐ 1 1 / Continuous slot ☒ 0 1 / ____ Other ☐ __
b. Manufacturer Boart Longyear
c. Slot size: 0.012 in.
d. Slotted length: 10.0 ft.
11. Backfill material (below filter pack): None ☒ 1 4 / ____ Other ☐ __

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature ____ Firm Boart Longyear, 101 Alderson St. Schofield, WI 54476 Tel: (715)359-7090 Fax: (715)355-5715

Please complete both Forms 4400-113A and 4400-113B and return to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personnally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 5-97

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Scrap Site		MP-2D

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Boart Longyear - M. Mueller	12/8/1999	12/8/1999	4 1/4 HSA

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		MP-2D	Feet MSL	Feet MSL	8.0 Inches

Boring Location or Local Grid Origin (Check if estimated: ☐)
State Plane S / C / N
1/4 of 1/4 of Section , T N, R
Lat. ° ' "
Long. ° ' "
Local Grid Location (If applicable)
Feet ☐ N Feet ☐ S Feet ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
34101632	Taylor	61	Medford

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plasticity Index	Soil Properties: P 200	RQD/ Comments
			1	Brn. Sandy SILT										
			2											
			3											
1 SS	24 16	6 6 10 14	4							M				
			5											
			6	Brn. SAND & GRAVEL										
			7											
			8											
2 SS	24 16	10 18 18 16	9				▼			W				
			10											
			11											
			12											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	Tel: (715)359-7090
	Boart Longyear 101 Alderson St. Schofield, WI 54476	Fax: (715)355-5715

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completions of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A Rev. 5-97

Boring Number MP-2D Use only as an attachment to Form 4400-122. Page 2 of 4

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
3 SS	24 6	50/6	13–16							W				
			16	Brn. Silty CLAY w/Sand & Gravel										
4 SS	24 16	18 12 20 25	17–20							W				
5 SS	24 14	18 12 18 22	21–25							W				
6 SS	24 0	50/2	26–31							W				
			31	Dk. Brn. CLAY TILL										
			32											

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A Rev. 5-97

Boring Number MP-2D Use only as an attachment to Form 4400-122. Page 3 of 4

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plasticity Index	Soil Properties: P 200	RQD/ Comments
			33											
7 SS	24 18	22 20 33 30	34 35							W				
			36 37 38											
8 SS	24 0	50/2	39 40							W				
			41	Brn. SAND & GRAVEL										
			42 43											
9 SS	24	12 30 40 50	44 45							W				
			46 47 48											
10 SS	24 6	15 20 50/6	49 50							W				
			51 52											

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A Rev. 5-97

Boring Number MP-2D Use only as an attachment to Form 4400-122.

Sample									Soil Properties					
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			53											
11 SS	24 4	15 50/4	54							W				
			55	EOB @ 55.0' Well Set @ 55.0'										

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 6-97

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	County	Well Name
Scrap Site	Taylor	MP-2D

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well Number
	61		

1. Can this well be purged dry? ☒ Yes ☐ No

2. Well development method:

surged with bailer and bailed	☐	41
surged with bailer and pumped	☒	61
surged with block and bailed	☐	42
surged with block and pumped	☐	62
surged with block, bailed, and pumped	☐	70
compressed air	☐	20
bailed only	☐	10
pumped only	☐	51
pumped slowly	☐	50
other _____	☐	__

3. Time spent developing well 55 min.

4. Depth of well (from top of well casing) 58.5 ft.

5. Inside diameter of well 2.06 in.

6. Volume of water in filter pack and well casing gal.

7. Volume of water removed from well 15 gals. gal.

8. Volume of water added (if any) gal.

9. Source of water added _____

10. Analysis performed on water added? ☐ Yes ☐ No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. ft.	ft.
Date	b. 12/16/1999	12/16/1999
Time	c. 07:55 am	08:50 am
12. Sediment in well bottom	.010 inches	0.0 inches
13. Water clarity	Clear ☒ 10 Turbid ☐ 15 (Describe) Clear	Clear ☒ 20 Turbid ☐ 25 (Describe) Clear

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	mg/l	mg/l
15. COD	mg/l	mg/l

16. Well developed by: Person's Name and Firm
G. Jones
Boart Longyear

17. Additional comments on development:

Facility Address or Owner/Responsible Party Address

Name: _____

Firm: _____

Street: _____

City/State/Zip: _____

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: _____

Print Name: Ron Thalacker

Firm: Boart Longyear

NOTE: See instructions for more information including a list of county codes and well type codes.

State of Wisconsin
Department of Natural Resources Route To: Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment ☐ Other ☐

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 6-97

Facility/Project Name: Scrap Site	Local Grid Location of Well: ____ ft. ☐N. ☐S. ____ ft. ☐E. ☐W.	Well Name: MP-2S
Facility License, Permit or Monitoring No.	Grid Origin Location (Check if estimated: ☐) Lat. ° ' " Long. ° ' " or St. Plane ____ ft. N, ____ ft. E. S/C/N	Wis. Unique Well No. / DNR Well Number
Facility ID: 34101632	Section Location of Waste/Source: ____ 1/4 of ____ 1/4 of Sec. ____, T. ____ N, R. ____ ☐E ☐W	Date Well Installed: 12/09/1999
Type of Well: Well Code 11/mw	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Well Installed By: (Person's Name and Firm) M. Mueller; Boart Longyear
Distance Well Is From Waste/Source Boundary: ____ ft.		

A. Protective pipe, top elevation ____ ft. MSL
B. Well casing, top elevation 2.50 ft. MSL
C. Land surface elevation ____ ft. MSL
D. Surface seal, bottom ____ ft. MSL or 6.0 ft.

12. USC classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis attached? ☐ Yes ☐ No

14. Drilling method used: Rotary ☐ 5 0
Hollow Stem Auger ☒ 4 1
____ Other ☐ __

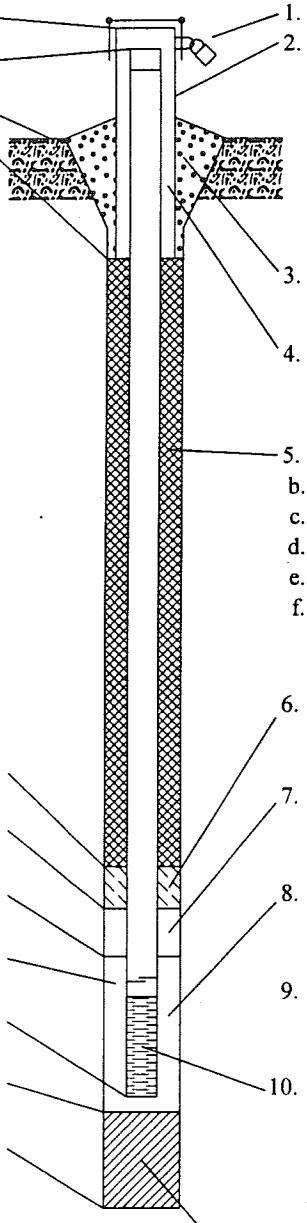
15. Drilling fluid used: Water ☐ 0 2 Air ☐ 0 1
Drilling Mud ☐ 0 3 None ☐ 9 9

16. Drilling additives used? ☐ Yes ☒ No

Describe ____

17. Source of water (attach analysis):
____

E. Bentonite seal, top ____ ft. MSL or 0.2 ft.
F. Fine sand, top ____ ft. MSL or 6.0 ft.
G. Filter pack, top ____ ft. MSL or 8.0 ft.
H. Screen joint, top ____ ft. MSL or 10.0 ft.
I. Well bottom ____ ft. MSL or 20.0 ft.
J. Filter pack, bottom ____ ft. MSL or 22.0 ft.
K. Borehole, bottom ____ ft. MSL or 22.0 ft.
L. Borehole, diameter 8.0 in.
M. O.D. well casing 2.37 in.
N. I.D. well casing 2.06 in.



1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: 4.0 in.
b. Length: 7.0 ft.
c. Material: Steel ☒ 0 4
____ Other ☐ __
d. Additional protection? ☒ Yes ☐ No
If yes, describe: 4" Bumper Post
3. Surface seal: Bentonite ☒ 3 0
Concrete ☐ 0 1
____ Other ☐ __
4. Material between well casing and protective pipe:
Bentonite ☐ 3 0
#30 Sand Other ☒ __
5. Annular space seal: a. Granular Bentonite ☒ 3 3
b. ____Lbs/gal mud weight . Bentonite-sand slurry ☐ 3 5
c. ____Lbs/gal mud weight . . . Bentonite slurry ☐ 3 1
d. ____% Bentonite . . . Bentonite-cement grout ☐ 5 0
e. ____Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 0 1
Tremie pumped ☐ 0 2
Gravity ☒ 0 8
6. Bentonite seal: a. Bentonite granules ☒ 3 3
b. ☐ 1/4 in. ☐ 3/8 in. ☐ 1/2 in. Bentonite pellets ☐ 3 2
c. ____ Other ☐ __
7. Fine sand material: Manufacturer, product name and mesh siz
a. #7 Badger __
b. Volume added ____ ft^3
8. Filter pack material: Manufacturer, product name and mesh si
a. #30 American Materials __
b. Volume added ____ ft^3
9. Well casing: Flush threaded PVC schedule 40 ☒ 2 3
Flush threaded PVC schedule 80 ☐ 2 4
____ Other ☐ __
10. Screen material: PVC __
a. Screen Type: Factory cut ☐ 1 1
Continuous slot ☒ 0 1
____ Other ☐ __
b. Manufacturer Boart Longyear
c. Slot size: 0.010 in.
d. Slotted length: 10.0 ft.
11. Backfill material (below filter pack): None ☒ 1 4
____ Other ☐ __

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: [signature] Firm: Boart Longyear, 101 Alderson St. Schofield, WI 54476 Tel: (715)359-7090 Fax: (715)355-5715

Please complete both Forms 4400-113A and 4400-113B and return to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personnally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 6-97

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	County	Well Name
Scrap Site	Taylor	MP-2S

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well Number
	61		

1. Can this well be purged dry? ☐ Yes ☒ No

2. Well development method:

surged with bailer and bailed	☐	41
surged with bailer and pumped	☒	61
surged with block and bailed	☐	42
surged with block and pumped	☐	62
surged with block, bailed, and pumped	☐	70
compressed air	☐	20
bailed only	☐	10
pumped only	☐	51
pumped slowly	☐	50
other _____	☐	--

3. Time spent developing well 70 min.

4. Depth of well (from top of well casing) 22.5 ft.

5. Inside diameter of well 2.06 in.

6. Volume of water in filter pack and well casing gal.

7. Volume of water removed from well 125 gals. gal.

8. Volume of water added (if any) gal.

9. Source of water added _____

10. Analysis performed on water added? ☐ Yes ☐ No
(If yes, attach results)

		Before Development	After Development
11. Depth to Water (from top of well casing)	a.	6.60 ft.	8.30 ft.
Date	b.	12/16/1999	12/16/1999
Time	c.	09:20 am	10:30 am
12. Sediment in well bottom		.010 inches	0.0 inches
13. Water clarity		Clear ☐ 10 Turbid ☒ 15 (Describe) Brown	Clear ☐ 20 Turbid ☒ 25 (Describe) Cloudy Brown

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	mg/l	mg/l
15. COD	mg/l	mg/l

16. Well developed by: Person's Name and Firm
G. Jones
Boart Longyear

17. Additional comments on development:

Facility Address or Owner/Responsible Party Address

Name: _____

Firm: _____

Street: _____

City/State/Zip: _____

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: _____

Print Name: Ron Thalacker

Firm: Boart Longyear

NOTE: See instructions for more information including a list of county codes and well type codes.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 5-97

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Scrap Site		MP-2S

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Boart Longyear - M. Mueller	12/9/1999	12/9/1999	4 1/4 HSA

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		MP-2S	Feet MSL	Feet MSL	8.0 Inches

Boring Location or Local Grid Origin (Check if estimated: ☐)
State Plane S / C / N
1/4 of 1/4 of Section , T N, R
Lat. ° ' "
Long. ° ' "
Local Grid Location (If applicable)
Feet ☐ N ☐ S Feet ☐ E ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
34101632	Taylor	61	Medford

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			1	Brn. Silty SAND										
			2											
			3											
			4											
1 SS	24 16	12 14 15 17	5							M				
			6											
			7	Brn. Silty SAND w/Gravel										
			8											
			9				▼							
2 SS	24 13	10 12 12 18	10							W				
			11	Brn. SAND & GRAVEL										
			12											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature [signature] Firm Boart Longyear
101 Alderson St. Schofield, WI 54476
Tel: (715)359-709(
Fax: (715)355-571:

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completions of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A Rev. 5-97

Boring Number MP-2S Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plasticity Index	Soil Properties: P 200	RQD/ Comments
3 SS	24 10	6 12 25 25	13 14 15 16 17 18 19 20 21 22	EOB @ 22.0' Well Set @ 20.0'						W				

State of Wisconsin
Department of Natural Resources

Route To: Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment ☐ Other ☐

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 6-97

Facility/Project Name: Scrap Site	Local Grid Location of Well: ____ft. ☐N. ☐S. ____ft. ☐E. ☐W.	Well Name: MP-9S
Facility License, Permit or Monitoring No.	Grid Origin Location (Check if estimated: ☐) Lat. ° ' " Long. ° ' " or	Wis. Unique Well No. / DNR Well Number
Facility ID: 34101632	St. Plane ____ ft. N, ____ ft. E. S/C/N	Date Well Installed: 12/14/1999
Type of Well: Well Code 12/pz	Section Location of Waste/Source: ____1/4 of ____ 1/4 of Sec. ____ T. ____ N, R. ____ ☐E ☐W	Well Installed By: (Person's Name and Firm) M. Mueller; Boart Longyear
Distance Well Is From Waste/Source Boundary ____ ft.	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	

A. Protective pipe, top elevation ____ ft. MSL
B. Well casing, top elevation 1.50 ft. MSL
C. Land surface elevation ____ ft. MSL
D. Surface seal, bottom ____ ft. MSL or 2.0 ft.

12. USC classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis attached? ☐ Yes ☐ No

14. Drilling method used: Rotary ☐ 5 0; Hollow Stem Auger ☒ 4 1; ____ Other ☐ __

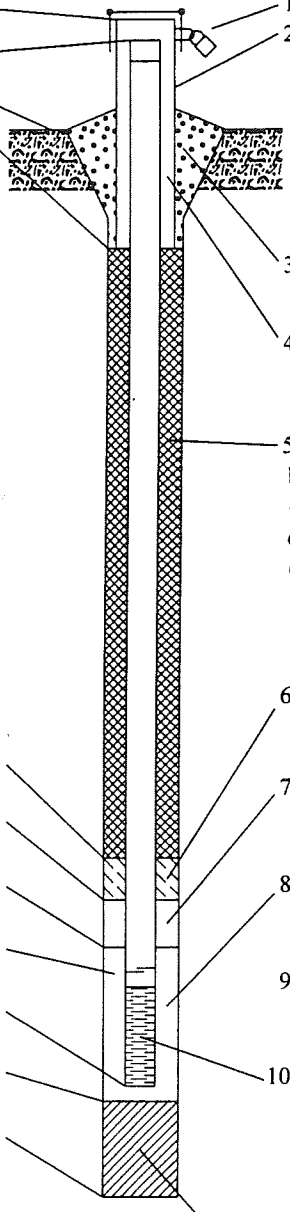
15. Drilling fluid used: Water ☐ 0 2 Air ☐ 0 1 Drilling Mud ☐ 0 3 None ☐ 9 9

16. Drilling additives used? ☐ Yes ☒ No

Describe ____

17. Source of water (attach analysis):

E. Bentonite seal, top ____ ft. MSL or 2.0 ft.
F. Fine sand, top ____ ft. MSL or 6.0 ft.
G. Filter pack, top ____ ft. MSL or 8.0 ft.
H. Screen joint, top ____ ft. MSL or 10.0 ft.
I. Well bottom ____ ft. MSL or 20.0 ft.
J. Filter pack, bottom ____ ft. MSL or 20.5 ft.
K. Borehole, bottom ____ ft. MSL or 20.5 ft.
L. Borehole, diameter 8.0 in.
M. O.D. well casing 2.37 in.
N. I.D. well casing 2.06 in.



1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: 4.0 in.
b. Length: 7.0 ft.
c. Material: Steel ☒ 0 4; ____ Other ☐ __
d. Additional protection? ☒ Yes ☐ No
If yes, describe: 4" Bumper Post
3. Surface seal: Bentonite ☐ 3 0; Concrete ☒ 0 1; ____ Other ☐ __
4. Material between well casing and protective pipe: Bentonite ☐ 3 0; #30 Sand Other ☒ __
5. Annular space seal: a. Granular Bentonite ☒ 3 3
b. ____Lbs/gal mud weight . Bentonite-sand slurry ☐ 3 5
c. ____Lbs/gal mud weight . . . Bentonite slurry ☐ 3 1
d. ____% Bentonite . . . Bentonite-cement grout ☐ 5 0
e. ____Ft³ volume added for any of the above
f. How installed: Tremie ☐ 0 1; Tremie pumped ☐ 0 2; Gravity ☒ 0 8
6. Bentonite seal: a. Bentonite granules ☒ 3 3
b. ☐ 1/4 in. ☐ 3/8 in. ☐ 1/2 in. Bentonite pellets ☐ 3 2
c. ____ Other ☐ __
7. Fine sand material: Manufacturer, product name and mesh size
a. #7 Badger __
b. Volume added ____ ft³
8. Filter pack material: Manufacturer, product name and mesh size
a. #30 American Materials __
b. Volume added ____ ft³
9. Well casing: Flush threaded PVC schedule 40 ☒ 2 3; Flush threaded PVC schedule 80 ☐ 2 4; ____ Other ☐ __
10. Screen material: PVC __
a. Screen Type: Factory cut ☐ 1 1; Continuous slot ☒ 0 1; ____ Other ☐ __
b. Manufacturer Boart Longyear
c. Slot size: 0.010 in.
d. Slotted length: 10.0 ft.
11. Backfill material (below filter pack): None ☒ 1 4; ____ Other ☐ __

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: [signature] Firm: Boart Longyear, 101 Alderson St. Schofield, WI 54476 Tel: (715)359-7090 Fax: (715)355-5715

Please complete both Forms 4400-113A and 4400-113B and return to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personnally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 5-97

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Scrap Site		MP-2S

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Boart Longyear - M. Mueller	12/9/1999	12/9/1999	4 1/4 HSA

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		MP-2S	Feet MSL	Feet MSL	8.0 Inches

Boring Location or Local Grid Origin (Check if estimated: ☐)
State Plane S / C / N
1/4 of 1/4 of Section , T N, R
Lat. ° ' "
Long. ° ' "
Local Grid Location (If applicable)
Feet ☐ N ☐ S Feet ☐ E ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
34101632	Taylor	61	Medford

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 SS	24 16	12 14 15 17	1–5	Brn. Silty SAND						M				
2 SS	24 13	10 12 12 18	6–10	Brn. Silty SAND w/Gravel			▼			W				
			11–12	Brn. SAND & GRAVEL										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature [signature] Firm Boart Longyear
101 Alderson St. Schofield, WI 54476
Tel: (715)359-709(
Fax: (715)355-571

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completions of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A Rev. 5-97

Boring Number MP-2S Use only as an attachment to Form 4400-122. Page 2 of 2

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plasticity Index	Soil Properties: P 200	RQD/ Comments
3 SS	24 10	6 12 25 25	13 14 15 16 17 18 19 20 21 22	EOB @ 22.0' Well Set @ 20.0'						W				

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 6-97

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	County	Well Name
Scrap Site	Taylor	MP-9S

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well Number
	61		

1. Can this well be purged dry? ☐ Yes ☐ No

2. Well development method:

surged with bailer and bailed	☐	41
surged with bailer and pumped	☒	61
surged with block and bailed	☐	42
surged with block and pumped	☐	62
surged with block, bailed, and pumped	☐	70
compressed air	☐	20
bailed only	☐	10
pumped only	☐	51
pumped slowly	☐	50
other _____	☐	--

3. Time spent developing well 75 min.

4. Depth of well (from top of well casing) 22.0 ft.

5. Inside diameter of well 2.06 in.

6. Volume of water in filter pack and well casing gal.

7. Volume of water removed from well 125 gals. gal.

8. Volume of water added (if any) gal.

9. Source of water added _____

10. Analysis performed on water added? ☐ Yes ☐ No
(If yes, attach results)

		Before Development	After Development
11. Depth to Water (from top of well casing)	a.	2.40 ft.	2.60 ft.
Date	b.	12/15/1999	12/15/1999
Time	c.	05:00 pm	06:15 pm
12. Sediment in well bottom		.010 inches	0.0 inches
13. Water clarity		Clear ☐ 10 Turbid ☒ 15 (Describe) Brown	Clear ☐ 20 Turbid ☒ 25 (Describe) Cloudy

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	mg/l	mg/l
15. COD	mg/l	mg/l

16. Well developed by: Person's Name and Firm
G. Jones
Boart Longyear

17. Additional comments on development:

Facility Address or Owner/Responsible Party Address

Name: _____

Firm: _____

Street: _____

City/State/Zip: _____

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: _____

Print Name: Ron Thalacker

Firm: Boart Longyear

NOTE: See instructions for more information including a list of county codes and well type codes.

State of Wisconsin
Department of Natural Resources

Route To: Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment ☐ Other ☐

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 6-97

Facility/Project Name: Scrap Site	Local Grid Location of Well: ____ ft. ☐N. ☐S. ____ ft. ☐E. ☐W.	Well Name: MP-9D
Facility License, Permit or Monitoring No.	Grid Origin Location (Check if estimated: ☐) Lat. ° ' " Long. ° ' " or St. Plane ____ ft. N. ____ ft. E. S/C/N	Wis. Unique Well No. / DNR Well Number
Facility ID: 34101632	Section Location of Waste/Source: ____ 1/4 of ____ 1/4 of Sec. ____, T. ____ N, R. ____ ☐E ☐W	Date Well Installed: 12/13/1999
Type of Well: Well Code 12/pz	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Well Installed By: (Person's Name and Firm) M. Mueller; Boart Longyear
Distance Well Is From Waste/Source Boundary: ____ ft.		

A. Protective pipe, top elevation ____ ft. MSL

B. Well casing, top elevation 1.50 ft. MSL

C. Land surface elevation ____ ft. MSL

D. Surface seal, bottom ____ ft. MSL or 1.0 ft.

12. USC classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis attached? ☐ Yes ☐ No

14. Drilling method used: Rotary ☐ 5 0; Hollow Stem Auger ☒ 4 1; ____ Other ☐ _ _

15. Drilling fluid used: Water ☐ 0 2 Air ☐ 0 1 Drilling Mud ☐ 0 3 None ☐ 9 9

16. Drilling additives used? ☐ Yes ☒ No

Describe ____

17. Source of water (attach analysis): ____

E. Bentonite seal, top ____ ft. MSL or 1.0 ft.

F. Fine sand, top ____ ft. MSL or NA ft.

G. Filter pack, top ____ ft. MSL or Prepack ft.

H. Screen joint, top ____ ft. MSL or 48.5 ft.

I. Well bottom ____ ft. MSL or 58.8 ft.

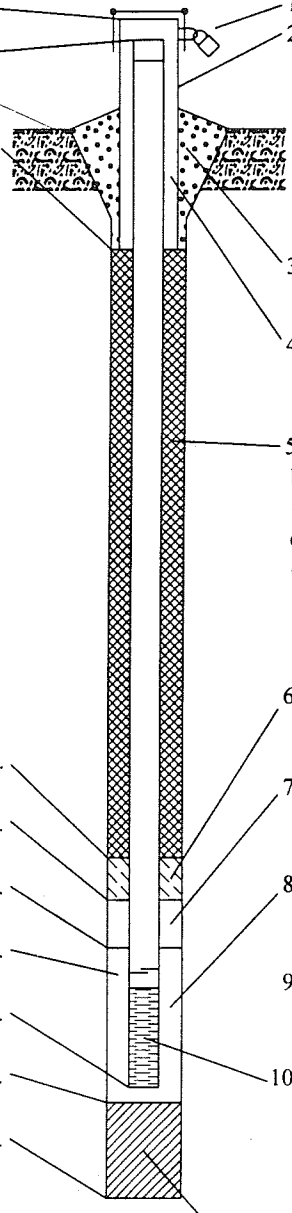
J. Filter pack, bottom ____ ft. MSL or 59.0 ft.

K. Borehole, bottom ____ ft. MSL or 59.0 ft.

L. Borehole, diameter 8.0 in.

M. O.D. well casing 2.37 in.

N. I.D. well casing 2.06 in.



1. Cap and lock? ☐ Yes ☒ No
2. Protective cover pipe:
   a. Inside diameter: 4.0 in.
   b. Length: 7.0 ft.
   c. Material: Steel ☒ 0 4; ____ Other ☐ _ _
   d. Additional protection? ☒ Yes ☐ No
   If yes, describe: 4" Bumper Post
3. Surface seal: Bentonite ☐ 3 0; Concrete ☒ 0 1; ____ Other ☐ _ _
4. Material between well casing and protective pipe: Bentonite ☐ 3 0; #30 Sand Other ☒ _ _
5. Annular space seal: a. Granular Bentonite ☐ 3 3
   b. ____ Lbs/gal mud weight . Bentonite-sand slurry ☐ 3 5
   c. ____ Lbs/gal mud weight . . . Bentonite slurry ☐ 3 1
   d. Y % Bentonite . . . Bentonite-cement grout ☒ 5 0
   e. ____ Ft^3 volume added for any of the above
   f. How installed: Tremie ☐ 0 1; Tremie pumped ☒ 0 2; Gravity ☐ 0 8
6. Bentonite seal: a. Bentonite granules ☒ 3 3
   b. ☐ 1/4 in. ☐ 3/8 in. ☐ 1/2 in. Bentonite pellets ☐ 3 2
   c. ____ Other ☐ _ _
7. Fine sand material: Manufacturer, product name and mesh siz
   a. NA _ _
   b. Volume added ____ ft^3
8. Filter pack material: Manufacturer, product name and mesh si
   a. PrePack _ _
   b. Volume added ____ ft^3
9. Well casing: Flush threaded PVC schedule 40 ☒ 2 3; Flush threaded PVC schedule 80 ☐ 2 4; ____ Other ☐ _ _
10. Screen material: PVC _ _
    a. Screen Type: Factory cut ☐ 1 1; Continuous slot ☒ 0 1; ____ Other ☐ _ _
    b. Manufacturer Boart Longyear
    c. Slot size: 0.012 in.
    d. Slotted length: 10.0 ft.
11. Backfill material (below filter pack): None ☒ 1 4; ____ Other ☐ _ _

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: [signature] Firm: Boart Longyear, 101 Alderson St. Schofield, WI 54476 Tel: (715)359-7090 Fax: (715)355-5715

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 5-97

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Scrap Site		MP-9D

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Boart Longyear - M. Mueller	12/13/1999	12/13/1999	4 1/4 HSA

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		MP-9D	Feet MSL	Feet MSL	8.0 Inches

Boring Location or Local Grid Origin (Check if estimated: ☐)
State Plane S / C / N
1/4 of 1/4 of Section , T N, R
Lat. ° ' "
Long. ° ' "
Local Grid Location (If applicable)
Feet ☐ N Feet ☐ S Feet ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
34101632	Taylor	61	Medford

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 SS	24 20	5 6 5 12	1–6	Fine SAND & SILT			▼			W				
			6–11	Fine SAND & GRAVEL										
2 SS	24 24	30 32 36 34	9–11							W				
			11–12	Brn. Fine SAND										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature

Firm Boart Longyear
101 Alderson St. Schofield, WI 54476

Tel: (715)359-7090
Fax: (715)355-5715

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A Rev. 5-97

Boring Number MP-9D Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			13											
3 SS	24 18	12 18 34 50	14							W				
			15											
			16	Brn. Fine SAND w/Silty Clay										
			17											
			18											
4 SS	24 19	12 29 50/4	19							W				
			20											
			21	Gray TILL										
			22											
			23											
5 SS	24 14	6 21 50/5	24							W				
			25											
			26	Sandy CLAY										
			27											
			28											
6 SS	24 3	6 12 50/5	29							W				
			30											
			31	Brn. TILL										
			32											

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A Rev. 5-97

Boring Number MP-9D Use only as an attachment to Form 4400-122.

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			33											
7 SS	24 20	12 21 25 41	34							W				
			35											
			36											
			37											
			38											
8 SS	24 18	4 14 21 35	39							W				
			40											
			41											
			42											
			43											
9 SS	24 12	12 18 50/4	44	Brn. CLAY SAND						W				
			45											
			46											
			47											
			48											
10 SS	24	12 15 50/4	49							W				
			50	WEATHERED ROCK										
			51											
			52											

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT

Form 4400-122A Rev. 5-97

Boring Number MP-9D Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plasticity Index	Soil Properties: P 200	RQD/ Comments
			53											
11 SS	24	12 50/3	54							W				
			55											
			56											
			57											
			58											
12 SS	24	50/2	59	EOB @ 59.0' Well Set @ 58.8'						W				

State of Wisconsin
Department of Natural Resources

WELL/DRILLHOLE/BOREHOLE ABANDONMENT
Form 3300-5B Rev. 4-97

All abandonment work shall be performed in accordance with the provisions of Chapters NR 811, NR 812 or 141, Wis. Admin. Code, whichever is applicable.

(1) GENERAL INFORMATION

Well/Drillhole/Borehole Location: MP-2
County: Taylor

____ 1/4 of ____ 1/4 of Sec. ____ ; T. ____ N; R. ____ ☐ E ☐ W
(If Applicable)
____ Gov't Lot ____ Grid Number

Grid Location
____ ft. ☐ N. ☐ S., ____ ft. ☐ E. ☐ W.

Civil Town Name

Street Address of Well

City, Village: Medford

(2) FACILITY NAME Scrap Site

Original Well Owner (If Known)

Present Well Owner: Scrap Site

Street or Route

City, State, Zip Code: Medford, WI

Facility Well No. and/or Name (If Applicable): MP-2
WI Unique Well No.

Reason For Abandonment: Broke

Date of Abandonment: 12/16/99

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On
(Date) ____

☒ Monitoring Well
☐ Water Well
☐ Drillhole
☐ Borehole

Construction Report Available? ☒ Yes ☐ No

Construction Type:
☒ Drilled ☐ Driven (Sandpoint) ☐ Dug
☐ Other (Specify) ____

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth (ft) (From groundsurface): 2.5
Casing Diameter (in.): 2.00
Casing Depth (ft.): ____

Lower Drillhole Diameter (in.) ____

Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown
If Yes, To What Depth? ____ Feet

(4) Depth to Water (Feet) ____

Pump & Piping Removed?	☐ Yes	☐ No	☒ Not Applicable
Liner(s) Removed?	☐ Yes	☐ No	☒ Not Applicable
Screen Removed?	☒ Yes	☐ No	☐ Not Applicable
Casing Left in Place?	☐ Yes	☒ No	

If No, Explain: Pulled

Was Casing Cut Off Below Surface?	☐ Yes	☐ No
Did Sealing Material Rise to Surface?	☒ Yes	☐ No
Did Material Settle After 24 Hours?	☐ Yes	☒ No
If Yes, Was Hole Retopped?	☐ Yes	☐ No

(5) Required Method of Placing Sealing Material
☒ Conductor Pipe - Gravity ☐ Conductor Pipe - Pumped
☐ Dump Bailer ☐ Other (Explain)

(6) Sealing Materials
☐ Neat Cement Grout
☐ Sand-Cement (Concrete) Grout
☐ Concrete
☐ Clay-Sand Slurry
☐ Bentonite-Sand Slurry
☒ Chipped Bentonite

For monitoring wells and monitoring well boreholes only
☐ Bentonite Pellets
☐ Granular Bentonite
☐ Bentonite-Cement Grout

(7)

Sealing Material Used	From (Ft.)	To (Ft.)		Mix Ratio or Mud Weight
Bentonite Chips	Surface	2.5	1/4 bag	

(8) Comments ____

(9) Name of Person or Firm Doing Sealing Work
Boart Longyear

Signature of Person Doing Work: [signature]
Date Signed: 12/28/99

Street or Route: 101 Alderson St.
Telephone Number: (715)359-7090

City, State, Zip Code: Schofield, WI 54476

(10) FOR DNR OR COUNTY USE ONLY

Date Received/Inspected	District/County
Reviewer/Inspector	☐ Complying Work ☐ Noncomplying Work
Follow-up Necessary	

DNR/COUNTY

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 6-97

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	County	Well Name
Scrap Site	Taylor	MP-9D

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well Number
	61		

1. Can this well be purged dry? ☐ Yes ☒ No

2. Well development method:

surged with bailer and bailed	☐	41
surged with bailer and pumped	☒	61
surged with block and bailed	☐	42
surged with block and pumped	☐	62
surged with block, bailed, and pumped	☐	70
compressed air	☐	20
bailed only	☐	10
pumped only	☐	51
pumped slowly	☐	50
other _____	☐	__

3. Time spent developing well 25 min.

4. Depth of well (from top of well casing) 59.0 ft.

5. Inside diameter of well 2.06 in.

6. Volume of water in filter pack and well casing gal.

7. Volume of water removed from well 40 gals. gal.

8. Volume of water added (if any) gal.

9. Source of water added _____

10. Analysis performed on water added? ☐ Yes ☐ No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. ft.	ft.
Date	b. 12/15/1999	12/15/1999
Time	c. 04:30 pm	04:55 pm
12. Sediment in well bottom	.010 inches	0.0 inches
13. Water clarity	Clear ☒ 10 Turbid ☐ 15	Clear ☒ 20 Turbid ☐ 25
(Describe)	Clear	Clear

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	mg/l	mg/l
15. COD	mg/l	mg/l

16. Well developed by: Person's Name and Firm
G. Jones
Boart Longyear

17. Additional comments on development:

Facility Address or Owner/Responsible Party Address

Name: _____

Firm: _____

Street: _____

City/State/Zip: _____

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: _____

Print Name: Ron Thalacker

Firm: Boart Longyear

NOTE: See instructions for more information including a list of county codes and well type codes.

State of Wisconsin
Department of Natural Resources

WELL/DRILLHOLE/BOREHOLE ABANDONMENT
Form 3300-5B Rev. 4-97

All abandonment work shall be performed in accordance with the provisions of Chapters NR 811, NR 812 or 141, Wis. Admin. Code, whichever is applicable.

(1) GENERAL INFORMATION

Well/Drillhole/Borehole Location: MB-S
County: Taylor
____ 1/4 of ____ 1/4 of Sec. ____ ; T. ____ N; R. ____ ☐ E ☐ W
(If Applicable) _____ Gov't Lot _____ Grid Number
Grid Location _____ ft. ☐ N. ☐ S., _____ ft. ☐ E. ☐ W.
Civil Town Name
Street Address of Well
City, Village: Medford

(2) FACILITY NAME Scrap Site

Original Well Owner (If Known)
Present Well Owner: Scrap Site
Street or Route
City, State, Zip Code: Medford, WI
Facility Well No. and/or Name (If Applicable): MB-S
WI Unique Well No.
Reason For Abandonment: Out of Service
Date of Abandonment: 12/14/99

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On (Date) _____

☒ Monitoring Well
☐ Water Well
☐ Drillhole
☐ Borehole

Construction Report Available? ☒ Yes ☐ No

Construction Type:
☒ Drilled ☐ Driven (Sandpoint) ☐ Dug
☐ Other (Specify) _____

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth (ft) (From groundsurface): 20.5
Casing Diameter (in.): 2.00
Casing Depth (ft.): _____
Lower Drillhole Diameter (in.): _____

Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown
If Yes, To What Depth? _____ Feet

(4) Depth to Water (Feet) _____

Pump & Piping Removed?	☐ Yes	☐ No	☒ Not Applicable
Liner(s) Removed?	☐ Yes	☐ No	☒ Not Applicable
Screen Removed?	☐ Yes	☒ No	☐ Not Applicable
Casing Left in Place?	☒ Yes	☐ No	

If No, Explain _____

Was Casing Cut Off Below Surface?	☒ Yes	☐ No
Did Sealing Material Rise to Surface?	☒ Yes	☐ No
Did Material Settle After 24 Hours?	☐ Yes	☒ No
If Yes, Was Hole Retopped?	☐ Yes	☐ No

(5) Required Method of Placing Sealing Material
☒ Conductor Pipe - Gravity ☐ Conductor Pipe - Pumped
☐ Dump Bailer ☐ Other (Explain)

(6) Sealing Materials
☐ Neat Cement Grout
☐ Sand-Cement (Concrete) Grout
☐ Concrete
☐ Clay-Sand Slurry
☐ Bentonite-Sand Slurry
☒ Chipped Bentonite

For monitoring wells and monitoring well boreholes only
☐ Bentonite Pellets
☐ Granular Bentonite
☐ Bentonite-Cement Grout

(7)

Sealing Material Used	From (Ft.)	To (Ft.)		Mix Ratio or Mud Weight
Native	Surface	0.5		
Bentonite Chips	0.5	20.5	1 bag	

(8) Comments _____

(9) Name of Person or Firm Doing Sealing Work: Boart Longyear
Signature of Person Doing Work
Date Signed: 12/28/99
Street or Route: 101 Alderson St.
Telephone Number: (715)359-7090
City, State, Zip Code: Schofield, WI 54476

(10) FOR DNR OR COUNTY USE ONLY

Date Received/Inspected	District/County
Reviewer/Inspector	☐ Complying Work ☐ Noncomplying Work
Follow-up Necessary	

DNR/COUNTY

State of Wisconsin
Department of Natural Resources

WELL/DRILLHOLE/BOREHOLE ABANDONMENT
Form 3300-5B Rev. 4-97

All abandonment work shall be performed in accordance with the provisions of Chapters NR 811, NR 812 or 141, Wis. Admin. Code, whichever is applicable.

(1) GENERAL INFORMATION

Well/Drillhole/Borehole Location: MP-2
County: Taylor
____ 1/4 of ____ 1/4 of Sec. ____ ; T. ____ N; R. ____ ☐ E ☐ W
(If Applicable) ____ Gov't Lot ____ Grid Number
Grid Location ____ ft. ☐ N. ☐ S., ____ ft. ☐ E. ☐ W.
Civil Town Name
Street Address of Well
City, Village: Medford

(2) FACILITY NAME Scrap Site

Original Well Owner (If Known)
Present Well Owner: Scrap Site
Street or Route
City, State, Zip Code: Medford, WI
Facility Well No. and/or Name (If Applicable): MP-2
WI Unique Well No.
Reason For Abandonment: Broke
Date of Abandonment: 12/16/99

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On (Date) ____

☒ Monitoring Well
☐ Water Well
☐ Drillhole
☐ Borehole

Construction Report Available? ☒ Yes ☐ No

Construction Type:
☒ Drilled ☐ Driven (Sandpoint) ☐ Dug
☐ Other (Specify) ____

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth (ft) (From groundsurface): 2.5
Casing Diameter (in.): 2.00
Casing Depth (ft.): ____

Lower Drillhole Diameter (in.): ____

Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown
If Yes, To What Depth? ____ Feet

(4) Depth to Water (Feet) ____

Pump & Piping Removed?	☐ Yes	☐ No	☒ Not Applicable
Liner(s) Removed?	☐ Yes	☐ No	☒ Not Applicable
Screen Removed?	☒ Yes	☐ No	☐ Not Applicable
Casing Left in Place?	☐ Yes	☒ No	

If No, Explain: Pulled

Was Casing Cut Off Below Surface?	☐ Yes	☐ No
Did Sealing Material Rise to Surface?	☒ Yes	☐ No
Did Material Settle After 24 Hours?	☐ Yes	☒ No
If Yes, Was Hole Retopped?	☐ Yes	☐ No

(5) Required Method of Placing Sealing Material
☒ Conductor Pipe - Gravity ☐ Conductor Pipe - Pumped
☐ Dump Bailer ☐ Other (Explain)

(6) Sealing Materials
☐ Neat Cement Grout
☐ Sand-Cement (Concrete) Grout
☐ Concrete
☐ Clay-Sand Slurry
☐ Bentonite-Sand Slurry
☒ Chipped Bentonite

For monitoring wells and monitoring well boreholes only
☐ Bentonite Pellets
☐ Granular Bentonite
☐ Bentonite-Cement Grout

(7) Sealing Material Used	From (Ft.)	To (Ft.)		Mix Ratio or Mud Weight
Bentonite Chips	Surface	2.5	1/4 bag	

(8) Comments ____

(9) Name of Person or Firm Doing Sealing Work: Boart Longyear
Signature of Person Doing Work
Date Signed: 12/28/99
Street or Route: 101 Alderson St.
Telephone Number: (715)359-7090
City, State, Zip Code: Schofield, WI 54476

(10) FOR DNR OR COUNTY USE ONLY

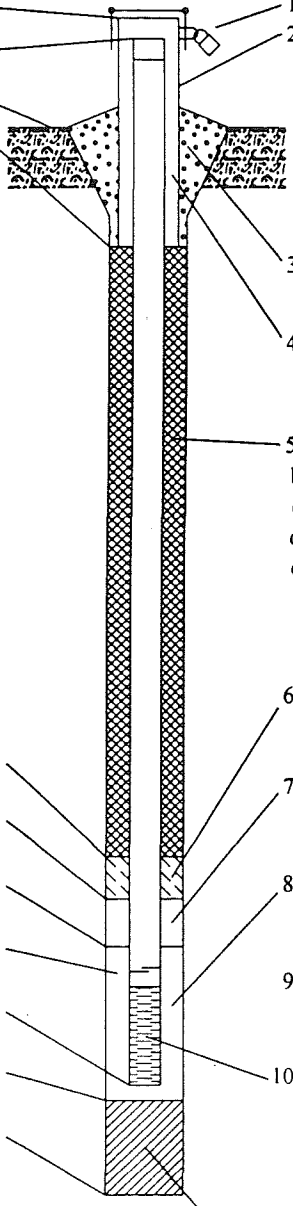
Date Received/Inspected	District/County
Reviewer/Inspector	☐ Complying Work ☐ Noncomplying Work
Follow-up Necessary	

DNR/COUNTY

State of Wisconsin
Department of Natural Resources Route To: Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment ☐ Other ☐

MONITORING WELL CONSTRUCTIC
Form 4400-113A Rev. 6-97

Facility/Project Name: Scrap Site	Local Grid Location of Well: ____ ft. ☐ N. ☐ S. ____ ft. ☐ E. ☐ W.	Well Name: MW-3S
Facility License, Permit or Monitoring No.	Grid Origin Location (Check if estimated: ☐) Lat. ° ' " Long. ° ' " or	Wis. Unique Well No. / DNR Well Number
Facility ID: 34101632	St. Plane ____ ft. N. ____ ft. E. S/C/N	Date Well Installed: 08/02/1999
Type of Well: Well Code 11/mw	Section Location of Waste/Source: ____ 1/4 of ____ 1/4 of Sec. ____ T. ____ N. R. ____ ☐ E ☐ W	Well Installed By: (Person's Name and F: L. Erdman
Distance Well Is From Waste/Source Boundary ft.	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Boart Longyear



A. Protective pipe, top elevation ____ ft. MSL
B. Well casing, top elevation 1.50 ft. MSL
C. Land surface elevation ____ ft. MSL
D. Surface seal, bottom ____ ft. MSL or 4.0 ft.

12. USC classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis attached? ☐ Yes ☐ No

14. Drilling method used: Rotary ☐ 5 0
Hollow Stem Auger ☒ 4 1
____ Other ☐

15. Drilling fluid used: Water ☐ 0 2 Air ☐ 0 1
Drilling Mud ☐ 0 3 None ☐ 9 9

16. Drilling additives used? ☐ Yes ☒ No
Describe ____

17. Source of water (attach analysis):
____

E. Bentonite seal, top ____ ft. MSL or 4.0 ft.
F. Fine sand, top ____ ft. MSL or 6.0 ft.
G. Filter pack, top ____ ft. MSL or 8.0 ft.
H. Screen joint, top ____ ft. MSL or 10.0 ft.
I. Well bottom ____ ft. MSL or 20.0 ft.
J. Filter pack, bottom ____ ft. MSL or 22.0 ft.
K. Borehole, bottom ____ ft. MSL or 22.0 ft.
L. Borehole, diameter 8.0 in.
M. O.D. well casing 2.37 in.
N. I.D. well casing 2.06 in.

1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: 4.0 i
b. Length: 7.0
c. Material: Steel ☒ 0 4
____ Other ☐ __
d. Additional protection? ☒ Yes ☐ No
If yes, describe: Bumper Post
3. Surface seal: Bentonite ☐ 3 0
Concrete ☒ 0 1
____ Other ☐
4. Material between well casing and protective pipe:
Bentonite ☐ 3 0
#30 Sand Other ☒
5. Annular space seal: a. Granular Bentonite ☐ 3 3
b. ____ Lbs/gal mud weight . Bentonite-sand slurry ☐ 3 5
c. ____ Lbs/gal mud weight . . . Bentonite slurry ☐ 3 1
d. Y % Bentonite . . . Bentonite-cement grout ☒ 5 0
e. ____ Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 0 1
Tremie pumped ☒ 0 2
Gravity ☐ 0 8
6. Bentonite seal: a. Bentonite granules ☒ 3 3
b. ☐ 1/4 in. ☐ 3/8 in. ☐ 1/2 in. Bentonite pellets ☐ 3 2
c. ____ Other ☐
7. Fine sand material: Manufacturer, product name and mesh
a. #7 Badger
b. Volume added ____ ft^3
8. Filter pack material: Manufacturer, product name and mesh
a. #30 American Materials
b. Volume added ____ ft^3
9. Well casing: Flush threaded PVC schedule 40 ☒ 2 3
Flush threaded PVC schedule 80 ☐ 2 4
____ Other ☐
10. Screen material: PVC
a. Screen Type: Factory cut ☐ 1 1
Continuous slot ☒ 0 1
____ Other ☐
b. Manufacturer Boart Longyear
c. Slot size: 0.010
d. Slotted length: 10.0
11. Backfill material (below filter pack): None ☒ 1 4
____ Other ☐

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: [signature] Firm: Boart Longyear, 101 Alderson St. Schofield, WI 54476 Tel: (715)359-70 Fax: (715)355-57

Please complete both Forms 4400-113A and 4400-113B and return to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and condut involved. Personnally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 5-97

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Scrap Site		MW-3S

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Boart Longyear - L. Erdman	8/2/1999	8/2/1999	4 1/4 HSA

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		MW-3S	Feet MSL	Feet MSL	8.0 Inches

Boring Location or Local Grid Origin (Check if estimated: ☐)
State Plane S/C/N
1/4 of 1/4 of Section , T N, R
Lat. ° ' "
Long. ° ' "
Local Grid Location (If applicable)
Feet ☐ N ☐ E
Feet ☐ S ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
34101632	Taylor	61	Medford

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			1	GRASS/TOPSOIL										
			1	Earth Drill										
			2											
			3											
			4											
1 SS	24 12	2 4 4 5	5	Brn. CLAY						W				
			6											
			7											
			8											
			9											
2 SS	24 20	1 1 1 1	10	Gray Silty CLAY						W				
			11											
			12											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	Tel:
	Boart Longyear 101 Alderson St. Schofield, WI 54476	Tel: (715)359-70 Fax: (715)355-57

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completions of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT

Form 4400-122A Rev. 5-97

Boring Number MW-3S Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			13											
			14											
3 SS	24 17	4 5 4 4	15 16							W				
			17											
			18											
			19											
4 SS	24 20	5 6 6 6	20 21							W				
			22	EOB @ 22.0' Well Set @ 20.0'										

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 6-97

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	County	Well Name
Scrap Site	Taylor	MW-3S

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well Number
	61		

1. Can this well be purged dry? ☒ Yes ☐ No

2. Well development method:

surged with bailer and bailed	☐	41
surged with bailer and pumped	☒	61
surged with block and bailed	☐	42
surged with block and pumped	☐	62
surged with block, bailed, and pumped	☐	70
compressed air	☐	20
bailed only	☐	10
pumped only	☐	51
pumped slowly	☐	50
other _____	☐	[redacted]

3. Time spent developing well 90 min.

4. Depth of well (from top of well casing) 21.5 ft.

5. Inside diameter of well 2.06 in.

6. Volume of water in filter pack and well casing gal.

7. Volume of water removed from well 20 gals. gal.

8. Volume of water added (if any) gal.

9. Source of water added _____

10. Analysis performed on water added? ☐ Yes ☐ No
(If yes, attach results)

		Before Development	After Development
11. Depth to Water (from top of well casing)	a.	4.89 ft.	17.70 ft.
Date	b.	08/05/1999	08/05/1999
Time	c.	11:30 am	01:00 pm
12. Sediment in well bottom		.010 inches	0.0 inches
13. Water clarity		Clear ☐ 10 Turbid ☒ 15	Clear ☒ 20 Turbid ☐ 25
(Describe)		Muddy	Clear

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	mg/l	mg/l
15. COD	mg/l	mg/l

16. Well developed by: Person's Name and Firm
L. Erdman
Boart Longyear

17. Additional comments on development:
Pumped dry 8 times.

Facility Address or Owner/Responsible Party Address

Name: _____

Firm: _____

Street: _____

City/State/Zip: _____

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: _____

Print Name: Ron Thalacker

Firm: Boart Longyear

NOTE: See instructions for more information including a list of county codes and well type codes.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 5-97

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Scrap Site		MW-3D

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Boart Longyear - L. Erdman	8/2/1999	8/2/1999	4 1/4 HSA

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		MW-3D	Feet MSL	Feet MSL	8.0 Inches

Boring Location or Local Grid Origin (Check if estimated: ☐)
State Plane S / C / N
1/4 of 1/4 of Section , T N, R
Lat. ° ' "
Long. ° ' "
Local Grid Location (If applicable)
Feet ☐ N ☐ E
Feet ☐ S ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
34101632	Taylor	61	Medford

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			1	TOPSOIL/Marsh GRASS										
			2	Earth Drill			▼							
			3											
			4											
1 SS	24 22	1 2 2 3	5 6	Brn. Silty CLAY						W				
			7											
			8											
			9											
2 SS	24 23	5 4 5 6	10 11	Gray Silty CLAY						W				
			12											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	Tel:
	Boart Longyear 101 Alderson St. Schofield, WI 54476	(715)359-709 Fax: (715)355-571

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completions of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT

Form 4400-122A Rev 5-97

Boring Number MW-3D Use only as an attachment to Form 4400-122

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plasticity Index	Soil Properties: P 200	RQD/ Comments
3 SS	24 23	2 3 5 6	15							W				
4 SS	24 18	3 5 6 7	20							W				
5 SS	24 23	10 12 13 15	25	Blue Green CLAY						W				
6 SS	24 21	15 17 18 16	30	Gray Silty CLAY						W				

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT

Form 4400-122A Rev. 5-97

Boring Number MW-3D Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
7 SS	24 23	12 14 16 18	35 36							W				
8 SS	24 10	115 16 17 15	40 41							W				
9 SS	24 20	17 20 21 22	45 46	Weathered ROCK						W				
10 SS	24 21	20 22 23 23	50 51	Weathered ROCK, Gray CLAY						W				

33 34 37 38 39 42 43 44 47 48 49 52

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A Rev. 5-97

Boring Number MW-3D Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plasticity Index	Soil Properties: P 200	RQD/ Comments
11 SS	24 4	50/.4	55							W				
12 SS	24 21	4 7 23 12	60	Gray Med. SAND						W				
			61	Weathered ROCK, Gray CLAY										
13 SS	24 9	10 50/.4	65							W				
14 SS	18 8	10 12 50/.3	70							W				
			71	EOB @ 71.3'										

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT

Form 4400-122A Rev. 5-97

Boring Number MW-3D Use only as an attachment to Form 4400-122.

Sample									Soil Properties					
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
				Well Set @ 70.0'										

State of Wisconsin
Department of Natural Resources Route To: Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment ☐ Other ☐

MONITORING WELL CONSTRUCTIO

Form 4400-113A Rev. 6-97

Facility/Project Name: Scrap Site

Facility License, Permit or Monitoring No.:

Facility ID: 34101632

Type of Well: Well Code 12/pz

Distance Well Is From Waste/Source Boundary: ft.

Local Grid Location of Well: ft. ☐N. ☐S. ft. ☐E. ☐W.

Grid Origin Location (Check if estimated: ☐) Lat. ° ' " Long. ° ' " or

St. Plane ft. N. ft. E. S/C/N

Section Location of Waste/Source: ☐E ☐W 1/4 of 1/4 of Sec. T. N, R.

Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known

Well Name: MW-3D

Wis. Unique Well No: DNR Well Number:

Date Well Installed: 08/03/1999

Well Installed By: (Person's Name and Fi: L. Erdman

Boart Longyear

A. Protective pipe, top elevation ft. MSL

B. Well casing, top elevation 1.50 ft. MSL

C. Land surface elevation ft. MSL

D. Surface seal, bottom ft. MSL or 5.0 ft.

12. USC classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis attached? ☐ Yes ☐ No

14. Drilling method used: Rotary ☐ 5 0
Hollow Stem Auger ☒ 4 1
Other ☐

15. Drilling fluid used: Water ☐ 0 2 Air ☐ 0 1
Drilling Mud ☐ 0 3 None ☐ 9 9

16. Drilling additives used? ☐ Yes ☒ No

Describe

17. Source of water (attach analysis):

E. Bentonite seal, top ft. MSL or 5.0 ft.

F. Fine sand, top ft. MSL or 55.0 ft.

G. Filter pack, top ft. MSL or 57.0 ft.

H. Screen joint, top ft. MSL or 60.0 ft.

I. Well bottom ft. MSL or 70.0 ft.

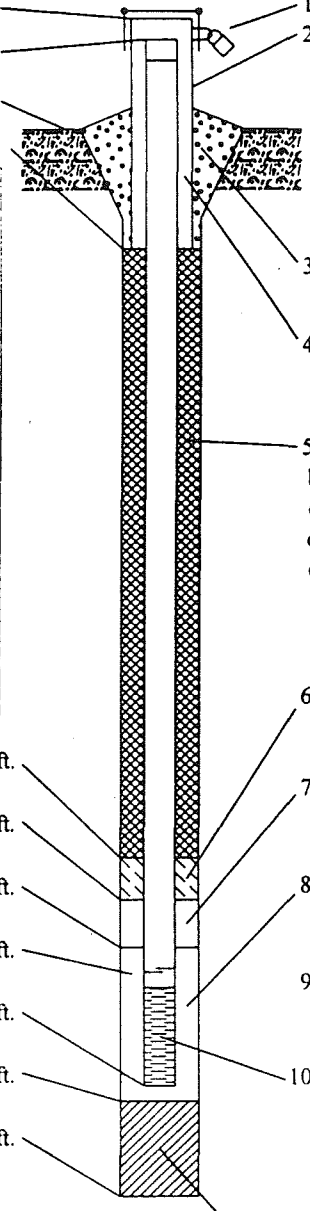
J. Filter pack, bottom ft. MSL or 71.3 ft.

K. Borehole, bottom ft. MSL or 71.3 ft.

L. Borehole, diameter 8.0 in.

M. O.D. well casing 2.37 in.

N. I.D. well casing 2.06 in.



1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: 4.0 i
b. Length: 7.0
c. Material: Steel ☒ 0 4
Other ☐
d. Additional protection? ☒ Yes ☐ No
If yes, describe: Bumper Post
3. Surface seal: Bentonite ☐ 3 0
Concrete ☒ 0 1
Other ☐
4. Material between well casing and protective pipe:
Bentonite ☐ 3 0
Grout Other ☒
5. Annular space seal: a. Granular Bentonite ☐ 3 3
b. Lbs/gal mud weight . Bentonite-sand slurry ☐ 3 5
c. Lbs/gal mud weight . . . Bentonite slurry ☐ 3 1
d. Y % Bentonite . . . Bentonite-cement grout ☒ 5 0
e. Ft³ volume added for any of the above
f. How installed: Tremie ☐ 0 1
Tremie pumped ☒ 0 2
Gravity ☐ 0 8
6. Bentonite seal: a. Bentonite granules ☐ 3 3
b. ☐ 1/4 in. ☐ 3/8 in. ☐ 1/2 in. Bentonite pellets ☐ 3 2
c. Other ☐
7. Fine sand material: Manufacturer, product name and mesh s
a. #7 Badger
b. Volume added ft³
8. Filter pack material: Manufacturer, product name and mesh
a. #30 American Materials
b. Volume added ft³
9. Well casing: Flush threaded PVC schedule 40 ☒ 2 3
Flush threaded PVC schedule 80 ☐ 2 4
Other ☐
10. Screen material: PVC
a. Screen Type: Factory cut ☐ 1 1
Continuous slot ☒ 0 1
Other ☐
b. Manufacturer Boart Longyear
c. Slot size: 0.010 i
d. Slotted length: 10.0
11. Backfill material (below filter pack): None ☒ 1 4
Other ☐

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature

Firm: Boart Longyear
101 Alderson St. Schofield, WI 54476

Tel: (715)359-70
Fax: (715)355-57

Please complete both Forms 4400-113A and 4400-113B and return to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personnally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 6-97

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	County	Well Name
Scrap Site	Taylor	MW-3D

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well Number
	61		

1. Can this well be purged dry? ☐ Yes ☒ No

2. Well development method:

surged with bailer and bailed	☐	41
surged with bailer and pumped	☒	61
surged with block and bailed	☐	42
surged with block and pumped	☐	62
surged with block, bailed, and pumped	☐	70
compressed air	☐	20
bailed only	☐	10
pumped only	☐	51
pumped slowly	☐	50
other _____	☐	[redacted]

3. Time spent developing well 60 min.

4. Depth of well (from top of well casing) 71.5 ft.

5. Inside diameter of well 2.06 in.

6. Volume of water in filter pack and well casing gal.

7. Volume of water removed from well 100 gals. gal.

8. Volume of water added (if any) gal.

9. Source of water added _____

10. Analysis performed on water added? ☐ Yes ☐ No
(If yes, attach results)

		Before Development	After Development
11. Depth to Water (from top of well casing)	a.	0.00 ft.	15.67 ft.
Date	b.	08/05/1999	08/05/1999
Time	c.	02:30 pm	03:30 pm
12. Sediment in well bottom		.010_ inches	0.0 inches
13. Water clarity		Clear ☐ 10 Turbid ☒ 15	Clear ☒ 20 Turbid ☐ 25
		(Describe) Muddy	(Describe) Cloudy Clear

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	mg/l	mg/l
15. COD	mg/l	mg/l

16. Well developed by: Person's Name and Firm
L. Erdman
Boart Longyear

17. Additional comments on development:

Facility Address or Owner/Responsible Party Address

Name: _____

Firm: _____

Street: _____

City/State/Zip: _____

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: _____

Print Name: Ron Thalacker

Firm: Boart Longyear

NOTE: See instructions for more information including a list of county codes and well type codes.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 5-97

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Scrap Site		MW-4Sa

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Boart Longyear - L. Erdman	8/2/1999	8/2/1999	4 1/4 HSA

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		MW-4Sa	Feet MSL	Feet MSL	8.0 Inches

Boring Location or Local Grid Origin (Check if estimated: ☐)
State Plane S/C/N
1/4 of 1/4 of Section , T N, R
Lat. ° ' "
Long. ° ' "
Local Grid Location (If applicable)
Feet ☐ N ☐ S Feet ☐ E ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
34101632	Taylor	61	Medford

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			1	Earth Drill										
			2											
			3											
			4											
			5											
			6											
			7											
			8											
			9											
			10	EOB @ 10.0' (Auger Refusal) Backfilled w/Bentonite Chips Moved 4' and redrilled MW-4S										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature [signature] Firm Boart Longyear
101 Alderson St. Schofield, WI 54476
Tel: (715)359-70
Fax: (715)355-57

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completions of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

WELL/DRILLHOLE/BOREHOLE ABANDONMENT
Form 3300-5B Rev 4-97

All abandonment work shall be performed in accordance with the provisions of Chapters NR 811, NR 812 or 141, Wis. Admin. Code, whichever is applicable.

(1) GENERAL INFORMATION

Well/Drillhole/Borehole Location: MW-4Sa
County: Taylor
____ 1/4 of ____ 1/4 of Sec. ____ ; T. ____ N; R. ____ ☐ E ☐ W
(If Applicable) _____ Gov't Lot _____ Grid Number
Grid Location _____ ft. ☐ N. ☐ S., _____ ft. ☐ E. ☐ W.
Civil Town Name
Street Address of Well
City, Village: Medford

(2) FACILITY NAME Scrap Site
Original Well Owner (If Known)
Present Well Owner: Scrap Site
Street or Route
City, State, Zip Code: Medford, WI
Facility Well No. and/or Name (If Applicable): MW-4Sa
WI Unique Well No.
Reason For Abandonment: Auger Refusal
Date of Abandonment: 08/02/99

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On (Date) _____

☐ Monitoring Well
☐ Water Well
☒ Drillhole
☐ Borehole

Construction Report Available? ☒ Yes ☐ No

Construction Type:
☒ Drilled ☐ Driven (Sandpoint) ☐ Dug
☐ Other (Specify) _____

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth (ft) (From groundsurface) _____
Casing Diameter (in.) _____
Casing Depth (ft.) _____

Lower Drillhole Diameter (in.) 8.0

Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown
If Yes, To What Depth? _____ Feet

(4) Depth to Water (Feet) _____

Pump & Piping Removed?	☐ Yes	☐ No	☒ Not Applicable
Liner(s) Removed?	☐ Yes	☐ No	☒ Not Applicable
Screen Removed?	☐ Yes	☐ No	☒ Not Applicable
Casing Left in Place?	☒ Yes	☐ No	

If No, Explain _____

Was Casing Cut Off Below Surface?	☐ Yes	☐ No
Did Sealing Material Rise to Surface?	☒ Yes	☐ No
Did Material Settle After 24 Hours?	☐ Yes	☒ No
If Yes, Was Hole Retopped?	☐ Yes	☒ No

(5) Required Method of Placing Sealing Material
☒ Conductor Pipe - Gravity ☐ Conductor Pipe - Pumped
☐ Dump Bailer ☐ Other (Explain)

(6) Sealing Materials
☐ Neat Cement Grout
☐ Sand-Cement (Concrete) Grout
☐ Concrete
☐ Clay-Sand Slurry
☐ Bentonite-Sand Slurry
☒ Chipped Bentonite

For monitoring wells and monitoring well boreholes only
☐ Bentonite Pellets
☐ Granular Bentonite
☐ Bentonite-Cement Grout

(7)

Sealing Material Used	From (Ft.)	To (Ft.)		Mix Ratio or Mud Weight
Bentonite Chips	Surface	10.0	4 bags	

(8) Comments _____

(9) Name of Person or Firm Doing Sealing Work: Boart Longyear
Signature of Person Doing Work
Date Signed: 8/13/99
Street or Route: 101 Alderson St.
Telephone Number: (715)359-7090
City, State, Zip Code: Schofield, WI 54476

(10) FOR DNR OR COUNTY USE ONLY

Date Received/Inspected	District/County
Reviewer/Inspector	☐ Complying Work ☐ Noncomplying Work
Follow-up Necessary	

DNR/COUNTY

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev 5-97

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Scrap Site		MW-4S

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Boart Longyear - L. Erdman	8/2/1999	8/2/1999	4 1/4 HSA

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		MW-4S	Feet MSL	Feet MSL	8.0 Inches

Boring Location or Local Grid Origin (Check if estimated: ☐)
State Plane S/C/N
1/4 of 1/4 of Section , T N, R
Lat. ° ' "
Long. ° ' "
Local Grid Location (If applicable)
Feet ☐ N ☐ S Feet ☐ E ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
34101632	Taylor	61	Medford

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			1–4	Earth Drill										
1 SS	24 22	2 4 4 5	5–9	Brn. Silty CLAY			▼			W				
2 SS	24 20	5 10 11 13	10–12	Gray Silty SAND						W				

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	Tel:
	Boart Longyear 101 Alderson St. Schofield, WI 54476	Tel: (715)359-70 Fax: (715)355-57

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT

Form 4400-122A Rev. 5-97

Boring Number MW-4S Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plasticity Index	Soil Properties: P 200	RQD/ Comments
			13											
			14											
3 SS	24 0	10 15 16 18	15	No Recovery						W				
			16											
			17											
			18											
			19											
4 SS	24 21	6 5 4 5	20	Gray Silty CLAY						W				
			21											
			22	EOB @ 22.0' Well Set @ 20.0'										

State of Wisconsin
Department of Natural Resources Route To: Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment ☐ Other ☐

MONITORING WELL CONSTRUCTIO
Form 4400-113A Rev. 6-97

Facility/Project Name: Scrap Site	Local Grid Location of Well: ____ ft. ☐N. ☐S. ____ ft. ☐E. ☐W.	Well Name: MW-4S
Facility License, Permit or Monitoring No.	Grid Origin Location (Check if estimated: ☐) Lat. ° ' " Long. ° ' " or	Wis. Unique Well No. / DNR Well Number
Facility ID: 34101632	St. Plane ____ ft. N. ____ ft. E. S/C/N	Date Well Installed: 08/02/1999
Type of Well: Well Code 11/mw	Section Location of Waste/Source: ____ 1/4 of ____ 1/4 of Sec. ____ T. ____ N, R. ____ ☐E ☐W	Well Installed By: (Person's Name and Fir: L. Erdman
Distance Well Is From Waste/Source Boundary ____ ft.	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Boart Longyear

A. Protective pipe, top elevation ____ ft. MSL
B. Well casing, top elevation 1.50 ft. MSL
C. Land surface elevation ____ ft. MSL
D. Surface seal, bottom ____ ft. MSL or 3.0 ft.

12. USC classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis attached? ☐ Yes ☐ No

14. Drilling method used: Rotary ☐ 50
Hollow Stem Auger ☒ 41
____ Other ☐ __

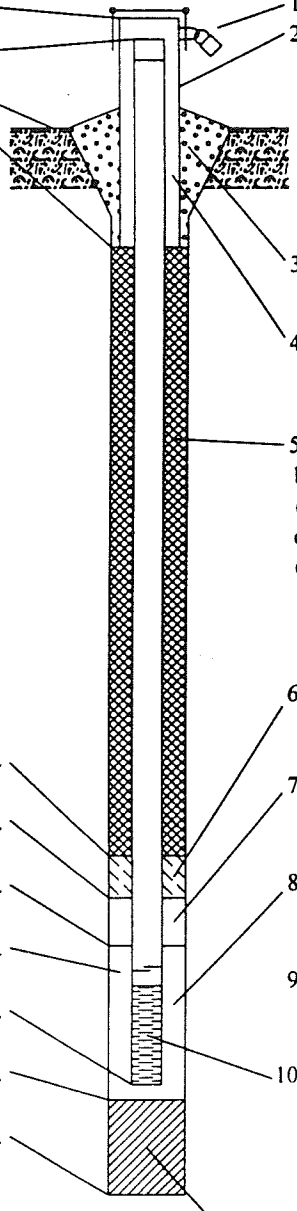
15. Drilling fluid used: Water ☐ 02 Air ☐ 01
Drilling Mud ☐ 03 None ☐ 99

16. Drilling additives used? ☐ Yes ☒ No

Describe ____

17. Source of water (attach analysis):
____

E. Bentonite seal, top ____ ft. MSL or 3.0 ft.
F. Fine sand, top ____ ft. MSL or 5.0 ft.
G. Filter pack, top ____ ft. MSL or 7.0 ft.
H. Screen joint, top ____ ft. MSL or 10.0 ft.
I. Well bottom ____ ft. MSL or 20.0 ft.
J. Filter pack, bottom ____ ft. MSL or 22.0 ft.
K. Borehole, bottom ____ ft. MSL or 22.0 ft.
L. Borehole, diameter 8.0 in.
M. O.D. well casing 2.37 in.
N. I.D. well casing 2.06 in.



1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: 4.0 in
b. Length: 7.0 f
c. Material: Steel ☒ 04
____ Other ☐ __
d. Additional protection? ☒ Yes ☐ No
If yes, describe: Bumper Post
3. Surface seal: Bentonite ☐ 30
Concrete ☒ 01
____ Other ☐ __
4. Material between well casing and protective pipe:
Bentonite ☐ 30
#30 Sand Other ☒ __
5. Annular space seal: a. Granular Bentonite ☐ 33
b. ____ Lbs/gal mud weight . Bentonite-sand slurry ☐ 35
c. ____ Lbs/gal mud weight . . . Bentonite slurry ☐ 31
d. Y % Bentonite . . . Bentonite-cement grout ☒ 50
e. ____ Ft³ volume added for any of the above
f. How installed: Tremie ☐ 01
Tremie pumped ☒ 02
Gravity ☐ 08
6. Bentonite seal: a. Bentonite granules ☒ 33
b. ☐ 1/4 in. ☐ 3/8 in. ☐ 1/2 in. Bentonite pellets ☐ 32
c. ____ Other ☐ __
7. Fine sand material: Manufacturer, product name and mesh s
a. #7 Badger __
b. Volume added ____ ft³
8. Filter pack material: Manufacturer, product name and mesh
a. #30 American Materials __
b. Volume added ____ ft³
9. Well casing: Flush threaded PVC schedule 40 ☒ 23
Flush threaded PVC schedule 80 ☐ 24
____ Other ☐ __
10. Screen material: PVC __
a. Screen Type: Factory cut ☐ 11
Continuous slot ☒ 01
____ Other ☐ __
b. Manufacturer Boart Longyear
c. Slot size: 0.010 in
d. Slotted length: 10.0 f
11. Backfill material (below filter pack): None ☒ 14
____ Other ☐ __

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature ____ Firm Boart Longyear
101 Alderson St. Schofield, WI 54476
Tel: (715)359-709
Fax: (715)355-571

Please complete both Forms 4400-113A and 4400-113B and return to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and condut involved. Personnally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 6-97

Route To: Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	County	Well Name
Scrap Site	Taylor	MW-4S

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well Number
	61		

1. Can this well be purged dry? ☒ Yes ☐ No

2. Well development method:

surged with bailer and bailed	☐ 41
surged with bailer and pumped	☒ 61
surged with block and bailed	☐ 42
surged with block and pumped	☐ 62
surged with block, bailed, and pumped	☐ 70
compressed air	☐ 20
bailed only	☐ 10
pumped only	☐ 51
pumped slowly	☐ 50
other _____	☐ [redacted]

3. Time spent developing well 90 min.

4. Depth of well (from top of well casing) 21.5 ft.

5. Inside diameter of well 2.06 in.

6. Volume of water in filter pack and well casing gal.

7. Volume of water removed from well 30 gals. gal.

8. Volume of water added (if any) gal.

9. Source of water added _____

10. Analysis performed on water added? ☐ Yes ☐ No
(If yes, attach results)

		Before Development	After Development
11. Depth to Water (from top of well casing)	a.	3.63 ft.	18.10 ft.
Date	b.	08/05/1999	08/05/1999
Time	c.	01:00 pm	02:30 pm
12. Sediment in well bottom		.010 inches	0.0 inches
13. Water clarity		Clear ☐ 10 Turbid ☒ 15	Clear ☒ 20 Turbid ☐ 25
(Describe)		Muddy	Cloudy Clear

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	mg/l	mg/l
15. COD	mg/l	mg/l

16. Well developed by: Person's Name and Firm
L. Erdman
Boart Longyear

17. Additional comments on development:
Pumped dry 5 times.

Facility Address or Owner/Responsible Party Address

Name: _____

Firm: _____

Street: _____

City/State/Zip: _____

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: [signature]

Print Name: Ron Thalacker

Firm: Boart Longyear

NOTE: See instructions for more information including a list of county codes and well type codes.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 5-97

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Scrap Site		MW-10S

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Boart Longyear - L. Erdman	8/4/1999	8/4/1999	4 1/4 HSA

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		MW-10S	Feet MSL	Feet MSL	8.0 Inches

Boring Location or Local Grid Origin (Check if estimated: ☐)
State Plane S/C/N
1/4 of 1/4 of Section , T N, R
Lat. ° ' "
Long. ° ' "
Local Grid Location (If applicable)
Feet ☐ N Feet ☐ E
Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
34101632	Taylor	61	Medford

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			1	Dk. Brn. PEAT			▼							
			2											
			3											
			4	Brn. SILT										
1 SS	24 16	1 2 2 3	5							W				
			6											
			7											
			8											
			9											
2 SS	24 12	1 1 1 2	10							W				
			11											
			12											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	Tel:
	Boart Longyear 101 Alderson St. Schofield, WI 54476	(715)359-70 Fax: (715)355-57

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT

Form 4400-122A Rev. 5-97

Boring Number MW-10S Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plasticity Index	Soil Properties: P 200	RQD/ Comments
			13											
			14											
3 SS	24 15	2 3 6 8	15							W				
			16	Brn. Med. SAND										
			17											
			18											
			19											
4 SS	24	1 1 3 6	20							W				
			21											
			22	EOB @ 22.0' Well Set @ 20.0'										

State of Wisconsin
Department of Natural Resources Route To: Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment ☐ Other ☐

MONITORING WELL CONSTRUCTIO
Form 4400-113A Rev. 6-97

Facility/Project Name: Scrap Site
Facility License, Permit or Monitoring No.:
Facility ID: 34101632
Type of Well: Well Code 11/mw
Distance Well Is From Waste/Source Boundary: ft.

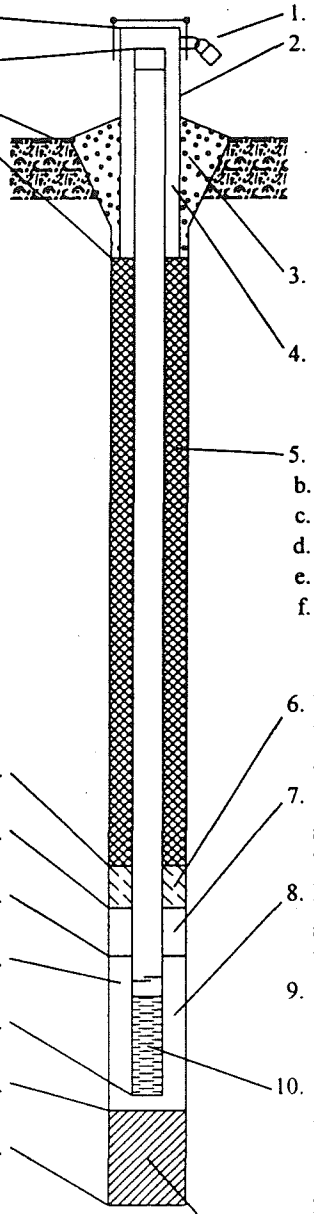
Local Grid Location of Well: ____ ft. ☐ N. ☐ S. ____ ft. ☐ E. ☐ W.
Grid Origin Location (Check if estimated: ☐)
Lat. ° ' " Long. ° ' " or
St. Plane ____ ft. N. ____ ft. E. S/C/N
Section Location of Waste/Source: ____ 1/4 of ____ 1/4 of Sec. ____, T. ____ N, R. ____ ☐ E ☐ W
Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known

Well Name: MW-10S
Wis. Unique Well No.: DNR Well Number:
Date Well Installed: 08/04/1999
Well Installed By: (Person's Name and Fi: L. Erdman
Boart Longyear

A. Protective pipe, top elevation ____ ft. MSL
B. Well casing, top elevation 1.50 ft. MSL
C. Land surface elevation ____ ft. MSL
D. Surface seal, bottom ____ ft. MSL or 3.0 ft.

12. USC classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐
13. Sieve analysis attached? ☐ Yes ☐ No
14. Drilling method used: Rotary ☐ 50
Hollow Stem Auger ☒ 41
____ Other ☐
15. Drilling fluid used: Water ☐ 02 Air ☐ 01
Drilling Mud ☐ 03 None ☐ 99
16. Drilling additives used? ☐ Yes ☒ No
Describe ____
17. Source of water (attach analysis):
____

E. Bentonite seal, top ____ ft. MSL or 3.0 ft.
F. Fine sand, top ____ ft. MSL or 5.0 ft.
G. Filter pack, top ____ ft. MSL or 7.0 ft.
H. Screen joint, top ____ ft. MSL or 10.0 ft.
I. Well bottom ____ ft. MSL or 20.0 ft.
J. Filter pack, bottom ____ ft. MSL or 22.0 ft.
K. Borehole, bottom ____ ft. MSL or 22.0 ft.
L. Borehole, diameter 8.0 in.
M. O.D. well casing 2.37 in.
N. I.D. well casing 2.06 in.



1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: 4.0 i
b. Length: 7.0
c. Material: Steel ☒ 04
____ Other ☐
d. Additional protection? ☒ Yes ☐ No
If yes, describe: Bumper Post
3. Surface seal: Bentonite ☐ 30
Concrete ☒ 01
____ Other ☐
4. Material between well casing and protective pipe:
Bentonite ☐ 30
Grout Other ☒
5. Annular space seal: a. Granular Bentonite ☐ 33
b. ____ Lbs/gal mud weight . Bentonite-sand slurry ☐ 35
c. ____ Lbs/gal mud weight . . . Bentonite slurry ☐ 31
d. Y % Bentonite . . . Bentonite-cement grout ☒ 50
e. ____ Ft³ volume added for any of the above
f. How installed: Tremie ☐ 01
Tremie pumped ☒ 02
Gravity ☐ 08
6. Bentonite seal: a. Bentonite granules ☒ 33
b. ☐ 1/4 in. ☐ 3/8 in. ☐ 1/2 in. Bentonite pellets ☐ 32
c. ____ Other ☐
7. Fine sand material: Manufacturer, product name and mesh s
a. #7 Badger
b. Volume added ____ ft³
8. Filter pack material: Manufacturer, product name and mesh
a. #30 American Materials
b. Volume added ____ ft³
9. Well casing: Flush threaded PVC schedule 40 ☒ 23
Flush threaded PVC schedule 80 ☐ 24
____ Other ☐
10. Screen material: PVC
a. Screen Type: Factory cut ☐ 11
Continuous slot ☒ 01
____ Other ☐
b. Manufacturer Boart Longyear
c. Slot size: 0.010
d. Slotted length: 10.0
11. Backfill material (below filter pack): None ☒ 1
____ Other ☐

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: [signature]
Firm: Boart Longyear
101 Alderson St. Schofield, WI 54476
Tel: (715)359-70
Fax: (715)355-57

Please complete both Forms 4400-113A and 4400-113B and return to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personnally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 6-97

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	County	Well Name
Scrap Site	Taylor	MW-10S

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well Number
	61		

1. Can this well be purged dry? ☐ Yes ☒ No

2. Well development method:

surged with bailer and bailed	☐	41
surged with bailer and pumped	☒	61
surged with block and bailed	☐	42
surged with block and pumped	☐	62
surged with block, bailed, and pumped	☐	70
compressed air	☐	20
bailed only	☐	10
pumped only	☐	51
pumped slowly	☐	50
other _____	☐	[redacted]

3. Time spent developing well 60 min.

4. Depth of well (from top of well casing) 21.5 ft.

5. Inside diameter of well 2.06 in.

6. Volume of water in filter pack and well casing gal.

7. Volume of water removed from well 50 gals. gal.

8. Volume of water added (if any) gal.

9. Source of water added _____

10. Analysis performed on water added? ☐ Yes ☐ No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing) a.	0.43 ft.	12.34 ft.
Date b.	08/05/1999	08/05/1999
Time c.	05:30 pm	06:30 pm
12. Sediment in well bottom	.010 inches	0.0 inches
13. Water clarity	Clear ☐ 10 Turbid ☒ 15 (Describe) Muddy	Clear ☒ 20 Turbid ☐ 25 (Describe) Cloudy Clear

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	mg/l	mg/l
15. COD	mg/l	mg/l

16. Well developed by: Person's Name and Firm
L. Erdman
Boart Longyear

17. Additional comments on development:

Facility Address or Owner/Responsible Party Address

Name: _____

Firm: _____

Street: _____

City/State/Zip: _____

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: _____

Print Name: Ron Thalacker

Firm: Boart Longyear

NOTE: See instructions for more information including a list of county codes and well type codes.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 5-97

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Scrap Site		MW-10D

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Boart Longyear - L. Erdman	8/3/1999	8/3/1999	4 1/4 HSA

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		MW-10D	Feet MSL	Feet MSL	8.0 Inches

Boring Location or Local Grid Origin (Check if estimated: ☐)
State Plane S / C / N
1/4 of 1/4 of Section , T N, R
Lat. ° ' "
Long. ° ' "
Local Grid Location (If applicable)
Feet ☐ N ☐ S Feet ☐ E ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
34101632	Taylor	61	Medford

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			1	Earth Drill										
			2											
			3											
			4											
1 SS	24 4	4 6 7 11	5	Brn. SAND & GRAVEL						W				
			6											
			7											
			8											
			9											
2 SS	24 12	21 10 13 12	10							W				
			11											
			12											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	Tel:
	Boart Longyear 101 Alderson St. Schofield, WI 54476	(715)359-70 Fax: (715)355-57

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completions of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT

Form 4400-122A Rev 5-97

Boring Number MW-10D Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plasticity Index	Soil Properties: P 200	RQD/ Comments
3 SS	24 15	10 13 11 10	15							W				
4 SS	24 13	3 4 6 6	20	Gray Sandy CLAY						W				
5 SS	24 11	4 5 5 6	25							W				
6 SS	24 6	4 6 6 7	30							W				

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT

Form 4400-122A Rev. 5-97

Boring Number MW-10D Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			33											
			34											
7 SS	24 10	6 23 50/.3	35							W				
			36	Weathered BEDROCK										
			37											
			38											
			39											
8 SS	24 0	24 50/.4	40							W				
			41											
			42											
			43											
			44											
9 SS	24 2	8 9 15 17	45							W				
			46											
			47											
			48											
			49											
10 SS	24 18	6 8 4 10	50	Brn. Silty CLAY w/Gravel						W				
			51											
			52											

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT

Form 4400-122A Rev. 5-97

Boring Number MW-10D Use only as an attachment to Form 4400-122.

Sample									Soil Properties						
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
11 SS	24 23	4 3 6 7	53 54 55 56 57 58 59							W				
12 SS	24 24	8 12 19 23	60 61 62 63 64							W				
13 SS	24 24	7 8 12 15	65 66 67 68 69							W				
14 SS	24 16	6 7 8.7	70 71 72							W				

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A Rev. 5-97

Boring Number MW-10D Use only as an attachment to Form 4400-122.

Sample									Soil Properties					
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
				EOB @ 72.0' Well Set @ 70.0'										

State of Wisconsin
Department of Natural Resources Route To: Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment ☐ Other ☐

MONITORING WELL CONSTRUCTIO

Form 4400-113A Rev. 6-97

Facility/Project Name: Scrap Site	Local Grid Location of Well: ____ ft. ☐ N. ☐ S. ____ ft. ☐ E. ☐ W.	Well Name: MW-10D
Facility License, Permit or Monitoring No.	Grid Origin Location (Check if estimated: ☐) Lat. ° ' " Long. ° ' " or	Wis. Unique Well No. / DNR Well Number
Facility ID: 34101632	St. Plane ____ ft. N. ____ ft. E. S/C/N	Date Well Installed: 08/04/1999
Type of Well: Well Code 12/pz	Section Location of Waste/Source: ____ 1/4 of ____ 1/4 of Sec. ____, T. ____ N, R. ____ ☐ E ☐ W	Well Installed By: (Person's Name and Fir: L. Erdman
Distance Well Is From Waste/Source Boundary ____ ft.	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Boart Longyear

A. Protective pipe, top elevation ____ ft. MSL

B. Well casing, top elevation 1.50 ft. MSL

C. Land surface elevation ____ ft. MSL

D. Surface seal, bottom ____ ft. MSL or 5.0 ft.

12. USC classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis attached? ☐ Yes ☐ No

14. Drilling method used: Rotary ☐ 5 0
Hollow Stem Auger ☒ 4 1
____ Other ☐ __

15. Drilling fluid used: Water ☐ 0 2 Air ☐ 0 1
Drilling Mud ☐ 0 3 None ☐ 9 9

16. Drilling additives used? ☐ Yes ☒ No

Describe ____

17. Source of water (attach analysis):
____

E. Bentonite seal, top ____ ft. MSL or 5.0 ft.

F. Fine sand, top ____ ft. MSL or 55.0 ft.

G. Filter pack, top ____ ft. MSL or 57.0 ft.

H. Screen joint, top ____ ft. MSL or 60.0 ft.

I. Well bottom ____ ft. MSL or 70.0 ft.

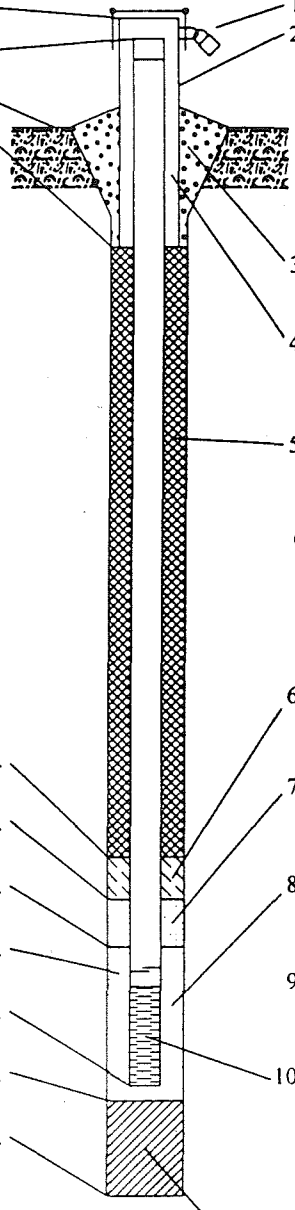
J. Filter pack, bottom ____ ft. MSL or 72.0 ft.

K. Borehole, bottom ____ ft. MSL or 72.0 ft.

L. Borehole, diameter 8.0 in.

M. O.D. well casing 2.37 in.

N. I.D. well casing 2.06 in.



1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: 4.0 in
b. Length: 7.0 ft
c. Material: Steel ☒ 0 4
____ Other ☐ __
d. Additional protection? ☒ Yes ☐ No
If yes, describe: Bumper Post
3. Surface seal: Bentonite ☐ 3 0
Concrete ☒ 0 1
____ Other ☐ __
4. Material between well casing and protective pipe:
Bentonite ☐ 3 0
Grout Other ☒ __
5. Annular space seal: a. Granular Bentonite ☐ 3 3
b. ____ Lbs/gal mud weight . Bentonite-sand slurry ☐ 3 5
c. ____ Lbs/gal mud weight . . . Bentonite slurry ☐ 3 1
d. Y % Bentonite . . . Bentonite-cement grout ☒ 5 0
e. ____ Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 0 1
Tremie pumped ☒ 0 2
Gravity ☐ 0 8
6. Bentonite seal: a. Bentonite granules ☐ 3 3
b. ☐ 1/4 in. ☐ 3/8 in. ☐ 1/2 in. Bentonite pellets ☐ 3 2
c. ____ Other ☐ __
7. Fine sand material: Manufacturer, product name and mesh s
a. #7 Badger __
b. Volume added ____ ft^3
8. Filter pack material: Manufacturer, product name and mesh
a. #30 American Materials __
b. Volume added ____ ft^3
9. Well casing: Flush threaded PVC schedule 40 ☒ 2 3
Flush threaded PVC schedule 80 ☐ 2 4
____ Other ☐ __
10. Screen material: PVC __
a. Screen Type: Factory cut ☐ 1 1
Continuous slot ☒ 0 1
____ Other ☐ __
b. Manufacturer Boart Longyear
c. Slot size: 0.010 i
d. Slotted length: 10.0
11. Backfill material (below filter pack): None ☒ 1 4
____ Other ☐ __

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature ____ Firm Boart Longyear, 101 Alderson St. Schofield, WI 54476 Tel: (715)359-709 Fax: (715)355-571

Please complete both Forms 4400-113A and 4400-113B and return to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and condut involved. Personnally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 6-97

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	County	Well Name
Scrap Site	Taylor	MW-10D

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well Number
	61		

1. Can this well be purged dry? ☒ Yes ☐ No

2. Well development method:

surged with bailer and bailed	☐	41
surged with bailer and pumped	☒	61
surged with block and bailed	☐	42
surged with block and pumped	☐	62
surged with block, bailed, and pumped	☐	70
compressed air	☐	20
bailed only	☐	10
pumped only	☐	51
pumped slowly	☐	50
other _____	☐	[illegible]

3. Time spent developing well 120 min.

4. Depth of well (from top of well casing) 71.5 ft.

5. Inside diameter of well 2.06 in.

6. Volume of water in filter pack and well casing gal.

7. Volume of water removed from well 25 gals. gal.

8. Volume of water added (if any) gal.

9. Source of water added _____

10. Analysis performed on water added? ☐ Yes ☐ No
(If yes, attach results)

		Before Development	After Development
11. Depth to Water (from top of well casing)	a.	0.83 ft.	60.12 ft.
Date	b.	08/05/1999	08/05/1999
Time	c.	03:30 pm	05:30 pm
12. Sediment in well bottom		.010 inches	0.0 inches
13. Water clarity		Clear ☐ 10 Turbid ☒ 15	Clear ☒ 20 Turbid ☐ 25
		(Describe) Muddy	(Describe) Cloudy Clear

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	mg/l	mg/l
15. COD	mg/l	mg/l

16. Well developed by: Person's Name and Firm
L. Erdman
Boart Longyear

17. Additional comments on development:
Pumped dry 5 times.

Facility Address or Owner/Responsible Party Address

Name: _____

Firm: _____

Street: _____

City/State/Zip: _____

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: [signature]

Print Name: Ron Thalacker

Firm: Boart Longyear

NOTE: See instructions for more information including a list of county codes and well type codes.

APPENDIX C

NOTES:

1. BASELINE SURVEY PREPARED BY TNT AND ASSOCIATES, INC. ENGINEERING AND SCIENCE, DECEMBER 1998.
2. THE POINT OF BEGINNING OF THE GRID SHOWN HEREON IS THE NORTHEASTERLY CORNER OF THE MAIN BUILDING WITH GRID LINES RUNNING PARALLEL WITH AND PERPENDICULAR TO THE NORTH LINE OF THE NORTHWEST 1/4 OF SECTION 27.
3. BENCHMARK 1= 3 CHISLED MARKS ON TOP OF GUARD RAIL, CENTER OF BRIDGE ON UPSTREAM SIDE. ELEVATION=1422.12

   BENCHMARK 2= INSIDE OF DOOR AT "SE" CORNER OF MAIN BUILDING. ELEVATION=1423.46

   BENCHMARK 3 = TOP OF 1" IRON PIPE ELEVATION=1421.00
4. SET PK NAILS IN ALLMAN RD. ON 100' NORTH/SOUTH GRID LINE 38.6' NORTH OF "NE" CORNER OF MAIN BUILDING, PARALLEL TO EAST/WEST GRID LINES

LEGEND:

- MONITORING WELL
- RAILROAD TRACKS
- CONCRETE AREA
- SECTION CORNER
- 2" IRON PIPE FOUND.
- 1" IRON PIPE SET
- PK NAIL
- GAS VENT
- POWER POLE
- GUY WIRE
- GAS LINE
- FENCE LINE
- TELEPHONE PEDESTAL
- STREET LIGHT/POLE
- WELL
- SIGN
- CLEAN OUT
- CATCH BASIN
- WITNESS MONUMENT
- HYDRANT
- WOODED AREA
- APPROXIMATE PROPERTY BOUNDARY
- EXISTING MONITORING WELL

NOTE:
ABANDON MONITORING WELL MBS, LOCATED 460 FEET NORTH OF ALLMAN STREET, ALONG THE EAST SIDE OF THE RAILROAD TRACKS. MBS IS JUST NORTH OF MBD.

NO.	DATE	APPR.	REVISION
1	10/00		RECORD DRAWINGS

SCRAP PROCESSING

Medford Wisconsin

WESTON MANAGERS DESIGNERS/CONSULTANTS

VERNON HILLS ILLINOIS

CHECKED	DATE	CLIENT APPROVALS	DATE
DES. ENG.			
PROJ. ENG.			
PROJ. MGR.			
APPROVED			
APPROVED		ISSUED FOR	DATE

EXISTING SITE CONDITIONS

DRAWN D.C.H.	DATE 10/00	DWG. NO. G-1	REV. NO. 1
SCALE 1"=100'	W.O. NO. 20064026.1000140	SHT.	OF

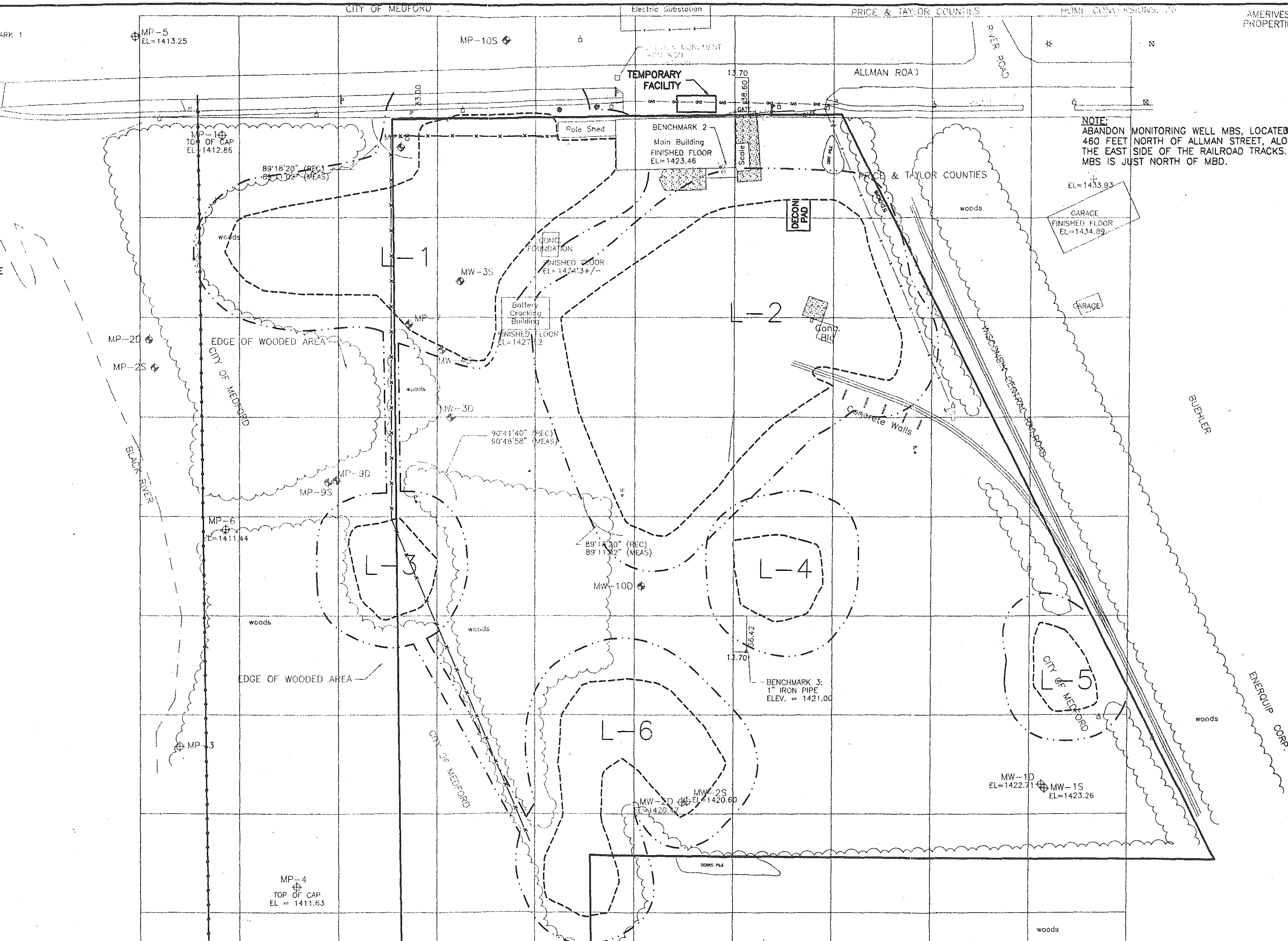
NOTES:
1. BASELINE SURVEY PREPARED BY TN AND ASSOCIATES, INC. ENGINEERING AND SCIENCE, DECEMBER 1998.
2. THE POINT OF BEGINNING OF THE GRID SHOWN HEREON IS THE NORTHEASTERLY CORNER OF THE MAIN BUILDING WITH GRID LINES RUNNING PARALLEL WITH AND PERPENDICULAR TO THE NORTH LINE OF THE NORTHWEST 1/4 OF SECTION 27.
3. BENCHMARK 1= 3 CHISLED MARKS ON TOP OF GUARD RAIL, CENTER OF BRIDGE ON UPSTREAM SIDE. ELEVATION=1422.12

   BENCHMARK 2= INSIDE OF DOOR AT "SE" CORNER OF MAIN BUILDING. ELEVATION=1423.46

   BENCHMARK 3 = TOP OF 1" IRON PIPE ELEVATION=1421.00
4. SET PK NAILS IN ALLMAN RD. ON 100' NORTH/SOUTH GRID LINE 38.6' NORTH OF "NE" CORNER OF MAIN BUILDING, PARALLEL TO EAST/WEST GRID LINES

LEGEND:

- MONITORING WELL
- RAILROAD TRACKS
- CONCRETE AREA
- SECTION CORNER
- 2" IRON PIPE FOUND.
- 1" IRON PIPE SET
- PK NAIL
- GAS VENT
- POWER POLE
- GUY WIRE
- GAS LINE
- FENCE LINE
- TELEPHONE PEDESTAL
- STREET LIGHT/POLE
- WELL
- SIGN
- CLEAN OUT
- CATCH BASIN
- WITNESS MONUMENT
- HYDRANT
- WOODED AREA
- APPROXIMATE PROPERTY BOUNDARY
- EXISTING MONITORING WELL
- L-2 EXCAVATION AREA
- SILT FENCE
- AREA CLEARED AND GRUBBED



NO.	DATE	APPR.	REVISION	NO.	DATE	APPR.	REVISION
1	10/00		RECORD DRAWINGS				

SCRAP PROCESSING

Medford, Wisconsin

WESTON — MANAGERS DESIGNERS/CONSULTANTS — VERNON HILLS, ILLINOIS

CHECKED	DATE	CLIENT APPROVALS	DATE
DES. ENG.			
PROJ. ENG.			
PROJ. MGR.			
APPROVED			
APPROVED		ISSUED FOR	DATE

SITE PREPARATION PLAN

DRAWN	DATE	DWG. NO.	REV. NO.
D.C.H.	10/00	G-2	1
SCALE 1"=100'	W.O. NO. 20064026100140	SHT. ___ OF ___	

NOTES:

1. BASELINE SURVEY PREPARED BY TN AND ASSOCIATES, INC. ENGINEERING AND SCIENCE, DECEMBER 1998.
2. THE POINT OF BEGINNING OF THE GRID SHOWN HEREON IS THE NORTHEASTERLY CORNER OF THE MAIN BUILDING WITH GRID LINES RUNNING PARALLEL WITH AND PERPENDICULAR TO THE NORTH LINE OF THE NORTHWEST 1/4 OF SECTION 27.
3. BENCHMARK 1= 3 CHISLED MARKS ON TOP OF GUARD RAIL, CENTER OF BRIDGE ON UPSTREAM SIDE. ELEVATION=1422.12

   BENCHMARK 2= INSIDE OF DOOR AT "SE" CORNER OF MAIN BUILDING. ELEVATION=1423.46

   BENCHMARK 3 = TOP OF 1" IRON PIPE ELEVATION=1421.00
4. SET PK NAILS IN ALLMAN RD. ON 100' NORTH/SOUTH GRID LINE 38.6' NORTH OF "NE" CORNER OF MAIN BUILDING, PARALLEL TO EAST/WEST GRID LINES

LEGEND:

- MONITORING WELL
- RAILROAD TRACKS
- CONCRETE AREA
- SECTION CORNER
- 2" IRON PIPE FOUND.
- 1" IRON PIPE SET
- PK NAIL
- GAS VENT
- POWER POLE
- GUY WIRE
- GAS LINE
- FENCE LINE
- TELEPHONE PEDESTAL
- STREET LIGHT/POLE
- WELL
- SIGN
- CLEAN OUT
- CATCH BASIN
- WITNESS MONUMENT
- HYDRANT
- WOODED AREA
- APPROXIMATE PROPERTY BOUNDARY
- EXISTING MONITORING WELL.
- EXCAVATION AREA

1	10/00	RECORD DRAWINGS				
DATE	APPR	REVISION	NO.	DATE	APPR.	REVISION

SCRAP PROCESSING

Medford — Wisconsin

WESTON — MANAGERS DESIGNERS/CONSULTANTS — VERNON HILLS, ILLINOIS

CHECKED / DES. ENG. / PROJ. ENG. / PROJ. MGR. / APPROVED / APPROVED — DATE — CLIENT APPROVALS — DATE — ISSUED FOR — DATE

SITE EXCAVATION PLAN

DRAWN	DATE	DWG. NO.	REV. NO.
D.C.H.	10/00	G-3	1
SCALE 1"=100'	W.O. NO. 20064026100140	SHT ___ OF ___	

NOTES:

1. BASELINE SURVEY PREPARED BY TNT AND ASSOCIATES, INC. ENGINEERING AND SCIENCE, DECEMBER 1998.
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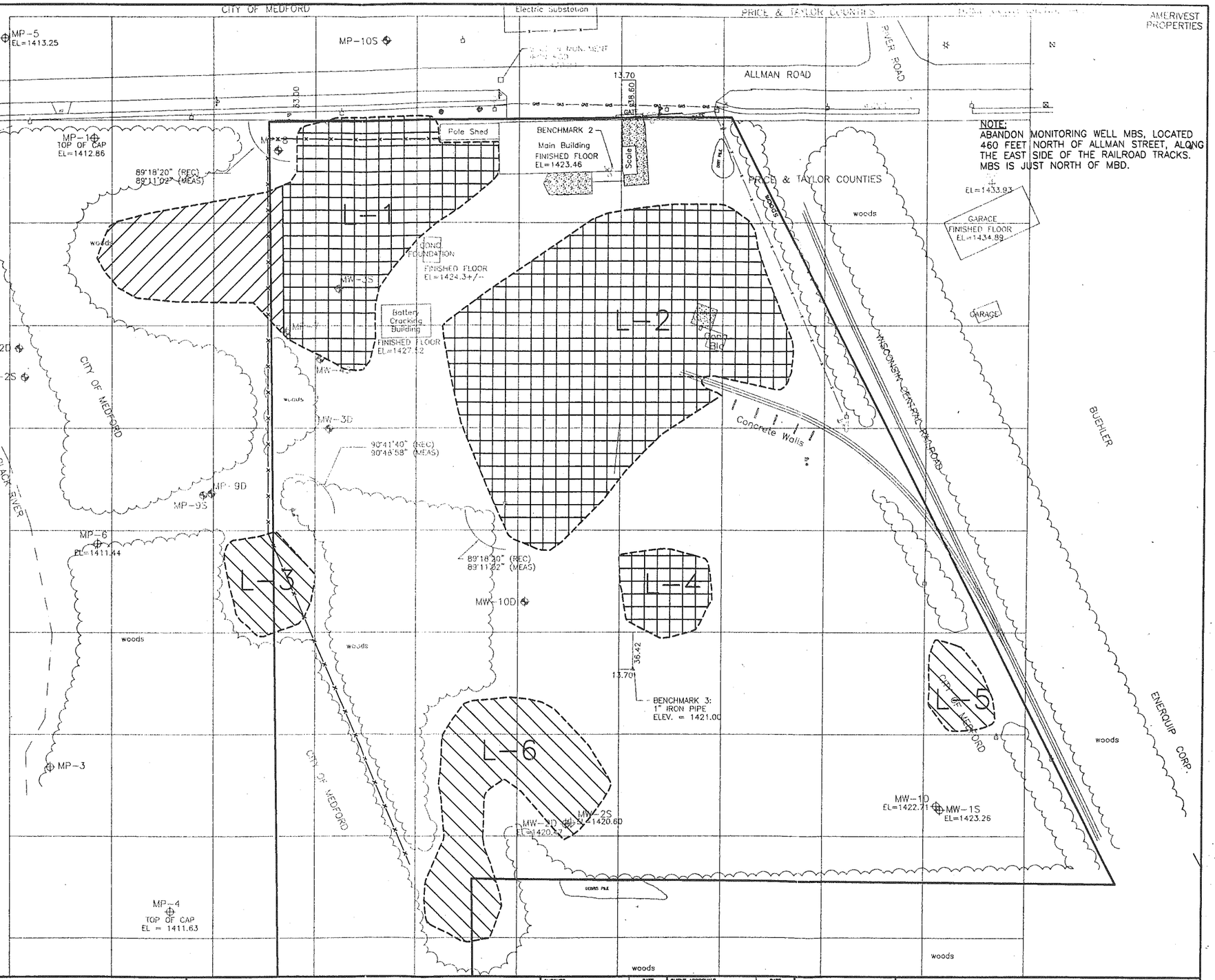
- FENCE LINE
- TELEPHONE PEDESTAL
- STREET LIGHT/POLE
- WELL
- SIGN
- CLEAN OUT
- CATCH BASIN
- WITNESS MONUMENT
- HYDRANT
- WOODED AREA
- APPROXIMATE PROPERTY BOUNDARY
- EXISTING MONITORING WELL
- CHAIN-LINK SECURITY FENCE WITH BARBED-WIRE
- L-2 EXCAVATION AREA
- AREA REVEGETATED WITH SEED MIXTURE NO. 10
- AREA REVEGETATED WITH SEED MIXTURE NO. 60
- AREA BACKFILLED WITH BASE COURSE AGGREGATE CONFORMING TO GRADUATION NO. 2 AND THEN COVERED WITH AGGREGATE SURFACE COURSE, GRADUATION NO. 3.



NO.	DATE	APPR.	REVISION
1	10/00		RECORD DRAWINGS

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SCRAP PROCESSING

Medford Wisconsin

WESTON MANAGERS DESIGNERS/CONSULTANTS

VERNON HILLS ILLINOIS

		CLIENT APPROVALS	DATE
CHECKED	DATE		
DES. ENG.			
PROJ. ENG.			
PROJ. MGR.			
APPROVED			
APPROVED		ISSUED FOR	DATE

SITE SEEDING & GRAVEL PLAN

DRAWN	DATE	DWG. NO.	REV. NO.
D.C.H.	10/00	G-4	1
SCALE 1"=100'	W.O. NO. 20064026100140	SHT. ___ OF ___	

NOTES:
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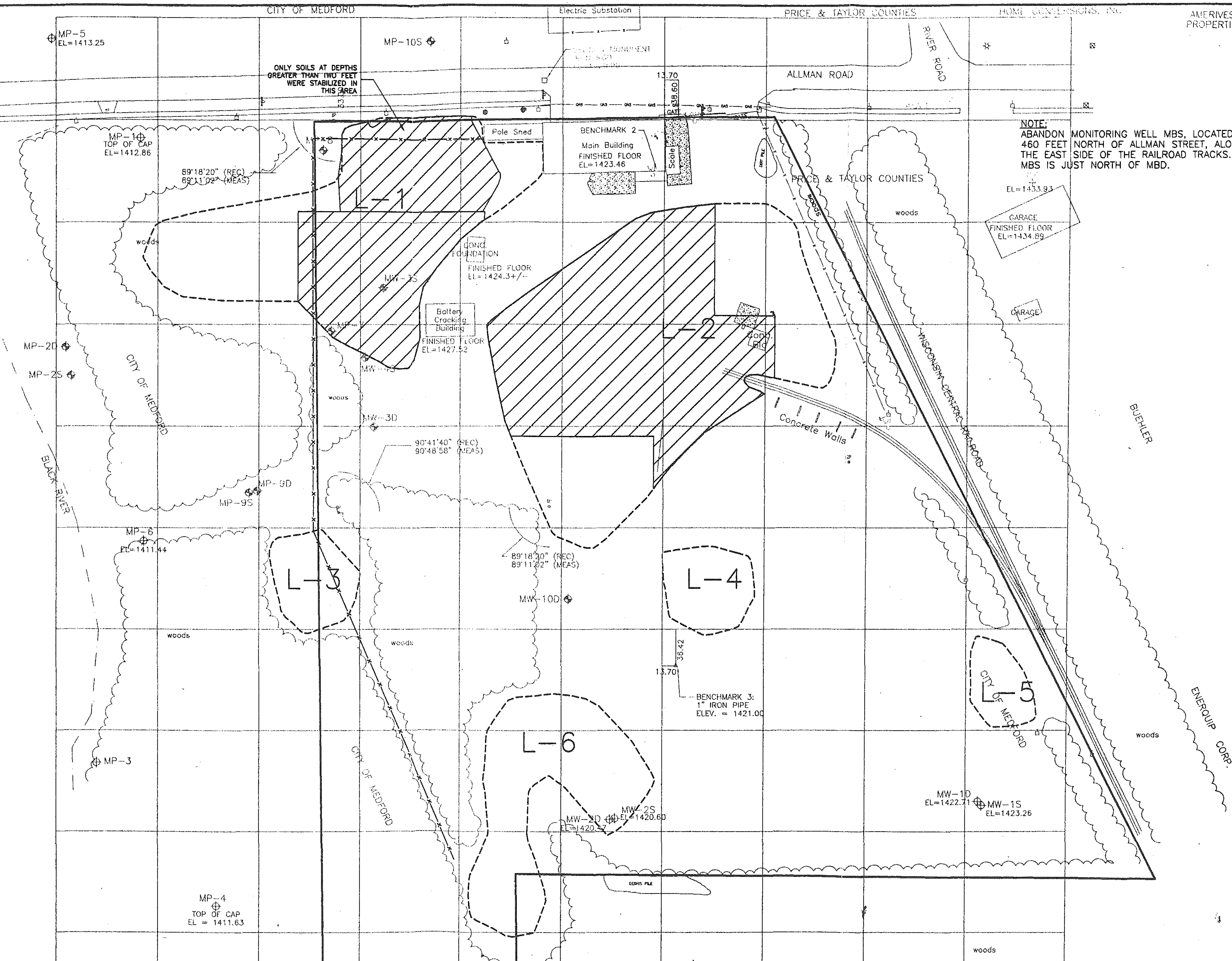
- WELL
- SIGN
- CLEAN OUT
- CATCH BASIN
- WITNESS MONUMENT
- HYDRANT
- WOODED AREA
- APPROXIMATE PROPERTY BOUNDARY
- EXISTING MONITORING WELL
- APPROXIMATE EXCAVATION AREA
- SOIL STABILIZATION AREA



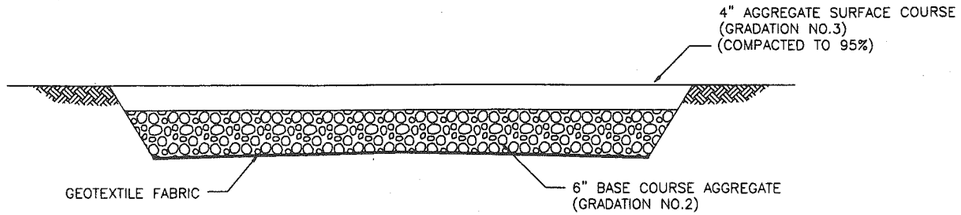
1	10/00		RECORD DRAWINGS	
NO.	DATE	APPR.	REVISION	

SCRAP PROCESSING	
Medford	Wisconsin
WESTON MANAGERS DESIGNERS/CONSULTANTS	
VERNON HILLS	ILLINOIS

CHECKED / DES. ENG. / PROJ. ENG. / PROJ. MGR. / APPROVED / APPROVED — DATE — CLIENT APPROVALS — DATE — ISSUED FOR — DATE

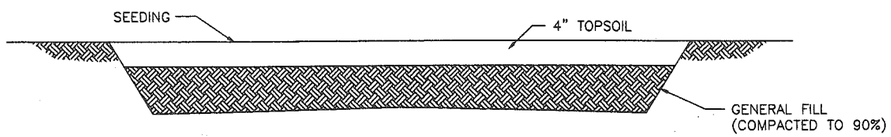
SOIL STABILIZATION PLAN

DRAWN	DATE	DWG. NO.	REV. NO.
D.C.H.	10/00	G-5	1
SCALE 1"=100'	W.O. NO. 200640261000140	SHT. ___ OF ___	



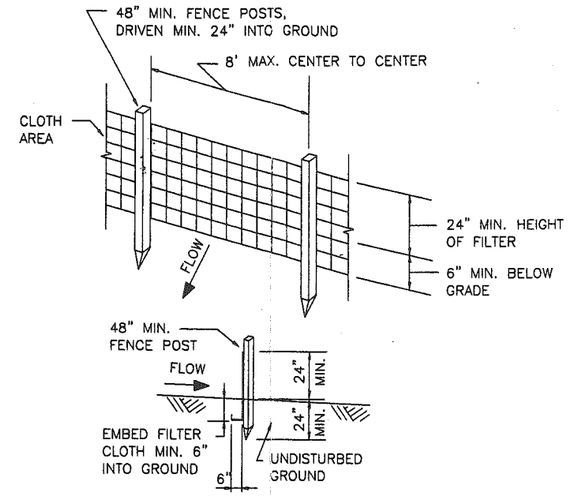
GRAVELED AREAS

NTS



REVEGETATED AREAS

NTS



TYPICAL SILT FENCE DETAIL (1 / G-3)

N.T.S.

TYPICAL SILT FENCE

CONSTRUCTION NOTES FOR FABRICATED SILT FENCE

1. THE TOE ANCHOR WILL BE BACKFILLED AND COMPACTED TO A DENSITY EQUAL TO SURROUNDING SOILS.
2. FILTER CLOTH TO BE FASTENED SECURELY TO UPSLOPE SIDE OF FENCE POSTS.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY 6" AND STAPLED.
4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.
5. INSTALL SILT FENCE AND EROSION CONTROL MEASURES AROUND STOCKPILE(S) TO HINDER SEDIMENT RUNOFF.

NO.	DATE	APPR.	REVISION
1	10/00		RECORD DRAWINGS

SCRAP PROCESSING

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PROJ. MGR.			
APPROVED			
APPROVED		ISSUED FOR	DATE

DETAILS

DRAWN D.C.H.	DATE 10/00	DWG. NO. G-6	REV. NO. 1
SCALE NONE	W.O. NO. 20064020100112O	SHT. ___ OF ___	