FID# 268016760
ERR ERP

Fluid Management, Inc.

August 2, 1994

Mr. Jeff Williams
Wisconsin Department of Natural
Resources
Southeast District
4041 N. Richards Street
P.O. Box 12436
Milwaukee, WI 53212

RE: ALLOY PRODUCTS CORP.
WAUKESHA, WI

Dear Mr. Williams:

On September 30, 1992, a release was reported to the WDNR for the Alloy Products Corporation site at 1045 Perkins Avenue, Waukesha, WI. The release was from a containment area adjacent to several chip hoppers.

On December 29, 1993, Fluid Management, Inc. (FMI) submitted a letter to the Department summarizing site investigation findings and a remedial action plan. Remedial activities were conducted from January through May 1994. This letter will summarize the current status of the project.

On January 4, 1994, approximately 260 tons of soil were excavated from the observed spill area. The extent of the excavation ranged from 6 to 10 feet in depth and 24 feet by 29 feet, laterally. Impacted soils were transported to Clean Soils, Inc. in Oak Creek, Wisconsin for thermal treatment.

Soil samples were obtained from the limits of the excavation and were submitted to a WDNR certified laboratory for Diesel Range Organics (DRO) analyses. The photoionizaton detector (PID) field screening results and the analytical findings are summarized as follows:

250 East Wisconsin Avenue
Suite 1000
Milwaukee, Wisconsin 53202
Tel: (414) 291-8282
Fax: (414) 291-8299

Sample Number	Sample Location	PID (ppm)	DRO (ppm)
1	SW Corner 6 ft.	7.3	138
2	South-Mid 12 ft.	39.2	3130
3	SE Corner 6 ft.	42.6	547
4	NE Corner 6 ft.	3.2	<10.0
5	NW Corner 6 ft.	8.2	382

Figure 1 illustrates the locations and DRO results of the excavation soil samples, as well as the locations and DRO results of the previously reported soil boring samples. As indicated above, and in Figure 1, elevated DRO detections were observed at sample locations 2, 3 and 5. However, the low levels of DRO detected immediately outside the excavated area (TB-1, MW-3, MW-4) would indicate that the contaminants have not migrated a significant distance from the excavation. Based on this information, it is our opinion that the majority of soil contaminants have been removed.

Groundwater measurements were obtained at the three monitoring wells in October 1993 and in May 1994. Using the surveyed top-of-casings of the monitoring wells as a reference, groundwater elevations were determined. Based on these elevations, groundwater flow was determined to be oriented to the north using both data sets. Figures 2 and 3 illustrate the potentiometric surfaces for the two measuring events.

Groundwater samples have been collected on two occasions at the site. Analytical findings are summarized below:

Monitoring Well	DRO (ppm)	
	10/12/93	5/27/94
MW-2	0.15	ND
MW-3	0.41	0.94
MW-4	ND	0.59

ND = No Detection

Figures 4 and 5 depict these results spatially.

Analytical results of the groundwater samples collected in October 1993 indicated low levels of DRO contaminants in MW-2 and MW-3 and no DRO detections in MW-4. The May 1994 analytical results indicated low DRO detections in MW-3 and MW-4 and no detections in MW-2. Results from the sampling events suggest that groundwater has not been significantly impacted at the site. The low level concentrations appear to be localized near the former chip hoppers.

Based on the investigative and remedial activities conducted to date, FMI recommends that no further soil remediation take place at the Alloy Products Corp. site. Concurrently, FMI recommends that groundwater sampling continue semiannually for two years. With the removal of the vast majority of impacteded soils, it is likely that groundwater contaminants will naturally biodegrade over time.

All analytical results and boring/monitoring well WDNR forms are attached.

If you have questions or require additional information, please contact Doug Jacobson or myself at (414) 291-8282 at your convenience.

Sincerely,

FLUID MANAGEMENT, INC.

Thomas M. Frost

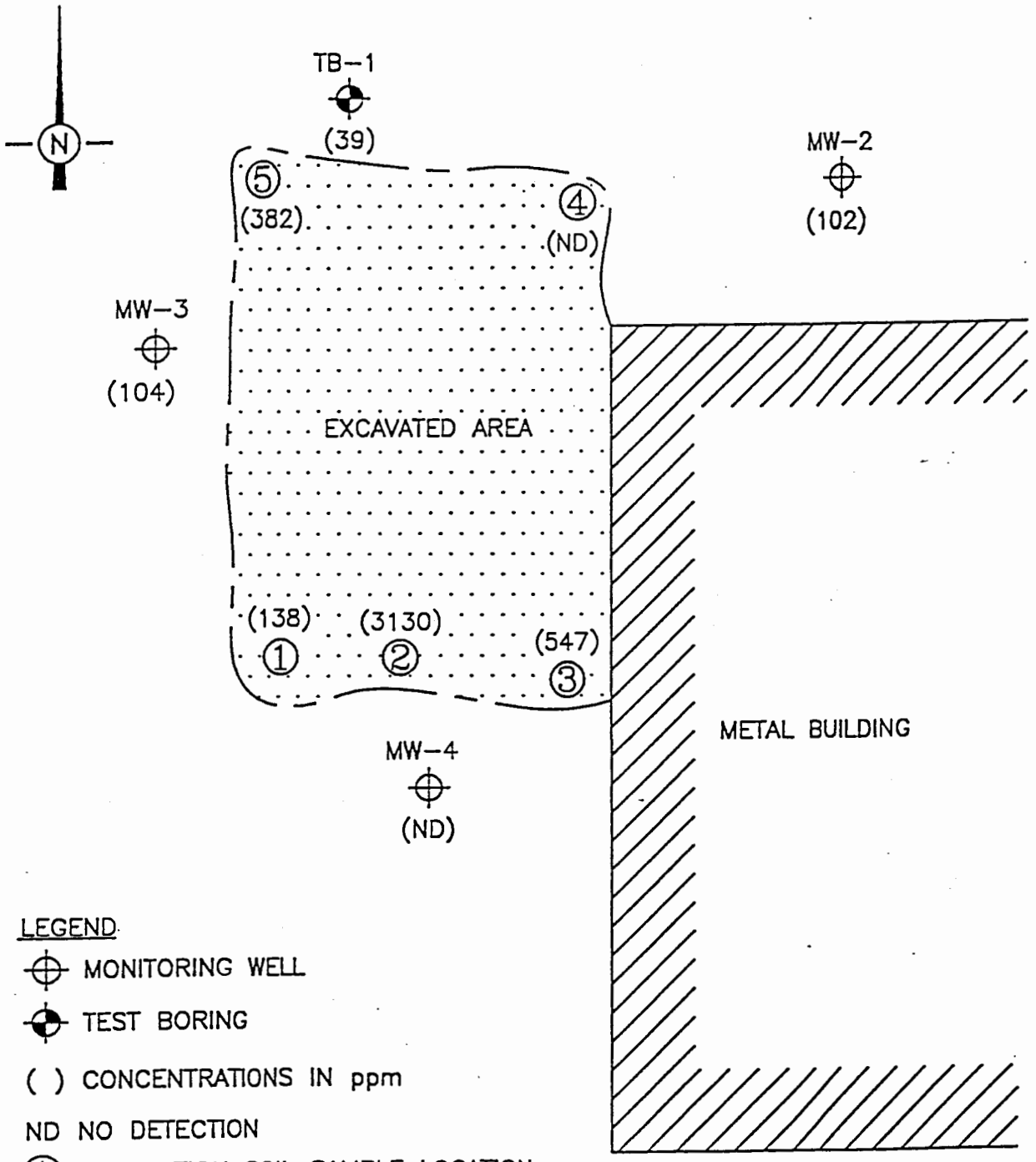
Thomas M. Frost
Project Engineer

TMF/amk

Attachments

cc: Thomas P. McElligott, Esq., Quarles & Brady

FIGURES



LEGEND

- MONITORING WELL
- TEST BORING
- ( ) CONCENTRATIONS IN ppm
- ND NO DETECTION
- ① EXCAVATION SOIL SAMPLE LOCATION

SCALE

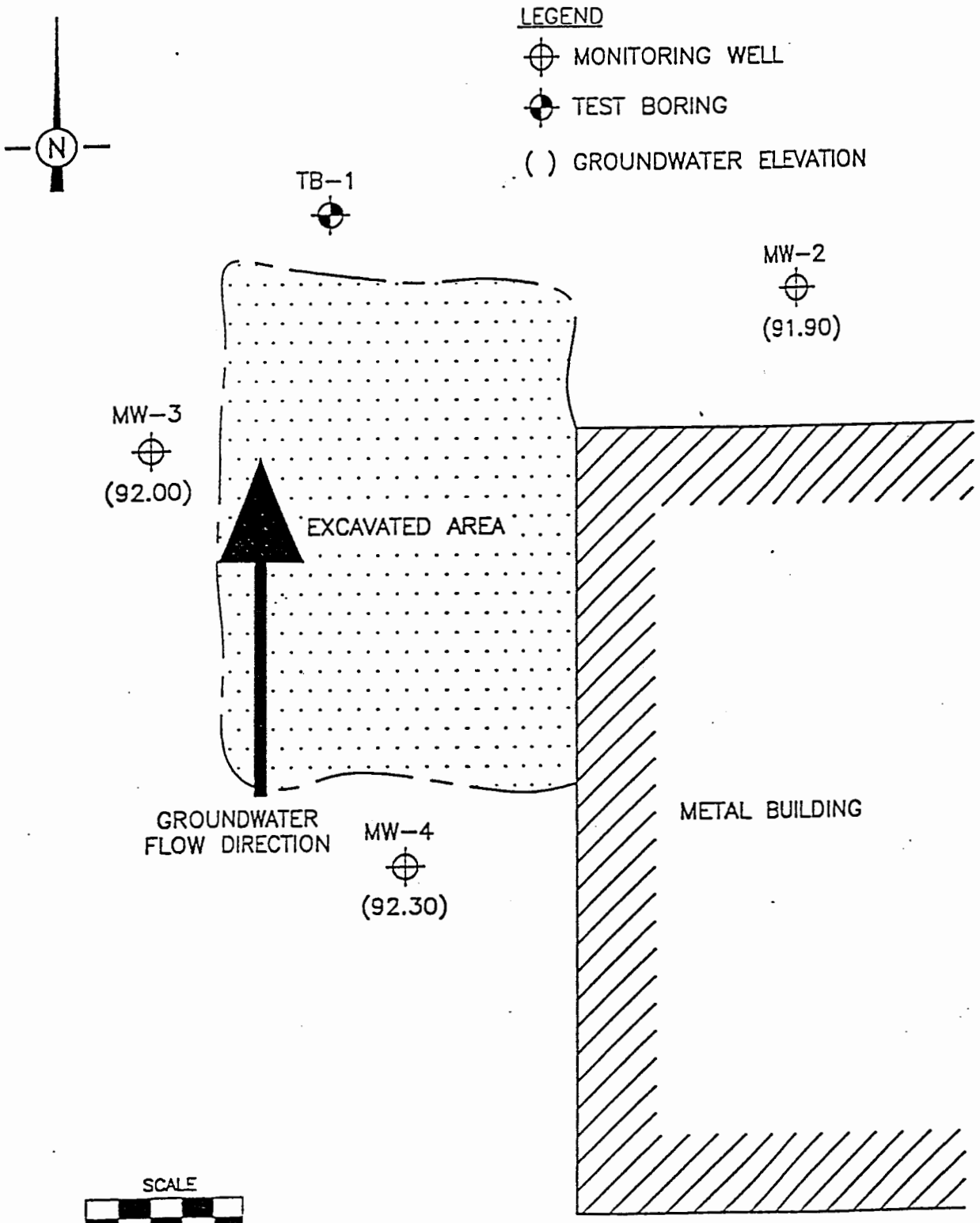
0 2' 4' 6' 8' 10'

THE INTERPRETATIONS IN THIS FIGURE ARE BASED ON KNOWN POINTS IN TIME AND SPACE AND ARE INTEGRAL TO A WRITTEN REPORT AND SHOULD BE REVIEWED IN THAT CONTEXT.

Fluid Management, Inc.

FIGURE 1
SOIL DRO DISTRIBUTION MAP
ALLOY PRODUCTS CORP.
WAUKESHA, WISCONSIN

APPROVED BY:	
CHECKED BY:	
5/2/94	
DLA	
DRAWN BY:	
92.680.2	
DRAWING NO.	



SCALE

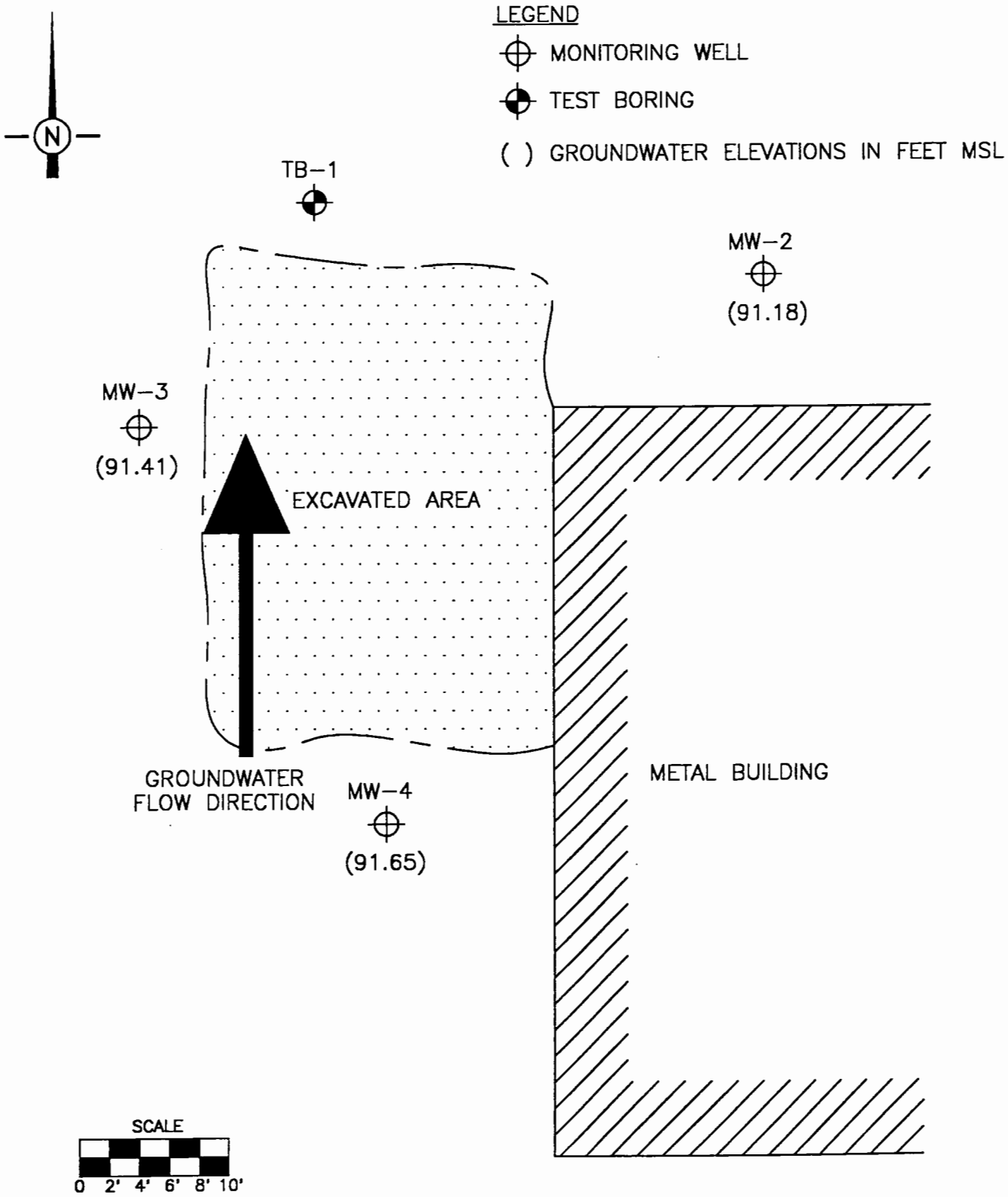
0 2' 4' 6' 8' 10'

THE INTERPRETATIONS IN THIS FIGURE ARE BASED ON KNOWN POINTS IN TIME AND SPACE AND ARE INTEGRAL TO A WRITTEN REPORT AND SHOULD BE REVIEWED IN THAT CONTEXT.

Fluid Management, Inc.

FIGURE 2
POTENTIOMETRIC SURFACE MAP 10/12/93
ALLOY PRODUCTS CORP.
WAUKESHA, WISCONSIN

APPROVED BY:	
CHECKED BY:	
5/2/94	
DLA	
DRAWN BY:	
92.680.1	
DRAWING NO.	

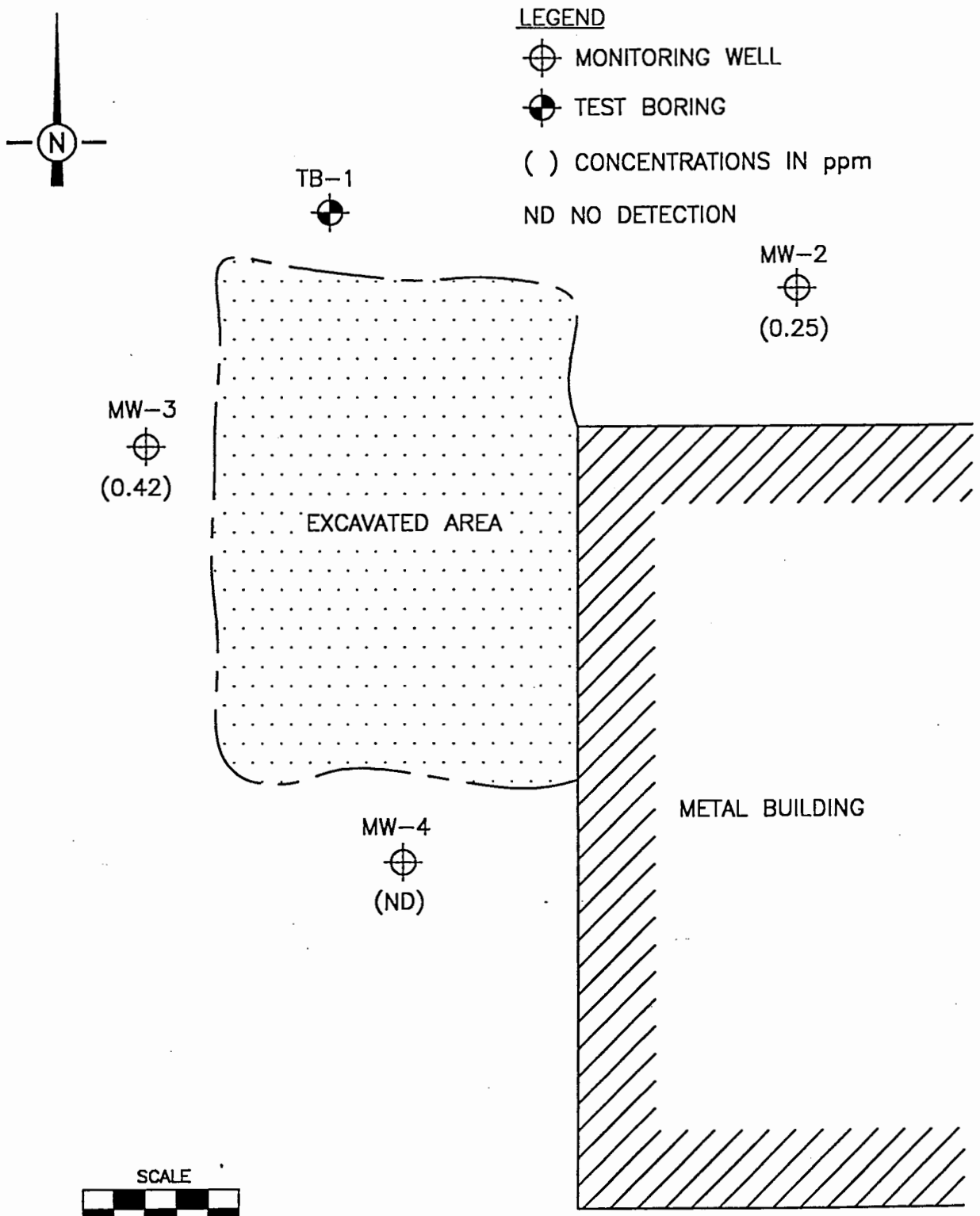


THE INTERPRETATIONS IN THIS FIGURE ARE BASED ON KNOWN POINTS IN TIME AND SPACE AND ARE INTEGRAL TO A WRITTEN REPORT AND SHOULD BE REVIEWED IN THAT CONTEXT.

Fluid Management, Inc.

FIGURE 3
POTENTIOMETRIC SURFACE MAP 5/27/94
ALLOY PRODUCTS CORP.
WAUKESHA, WISCONSIN

APPROVED BY:	
CHECKED BY:	
7/18/94	
DLA	
DRAWN BY:	
92.680.3	
DRAWING NO.	



SCALE

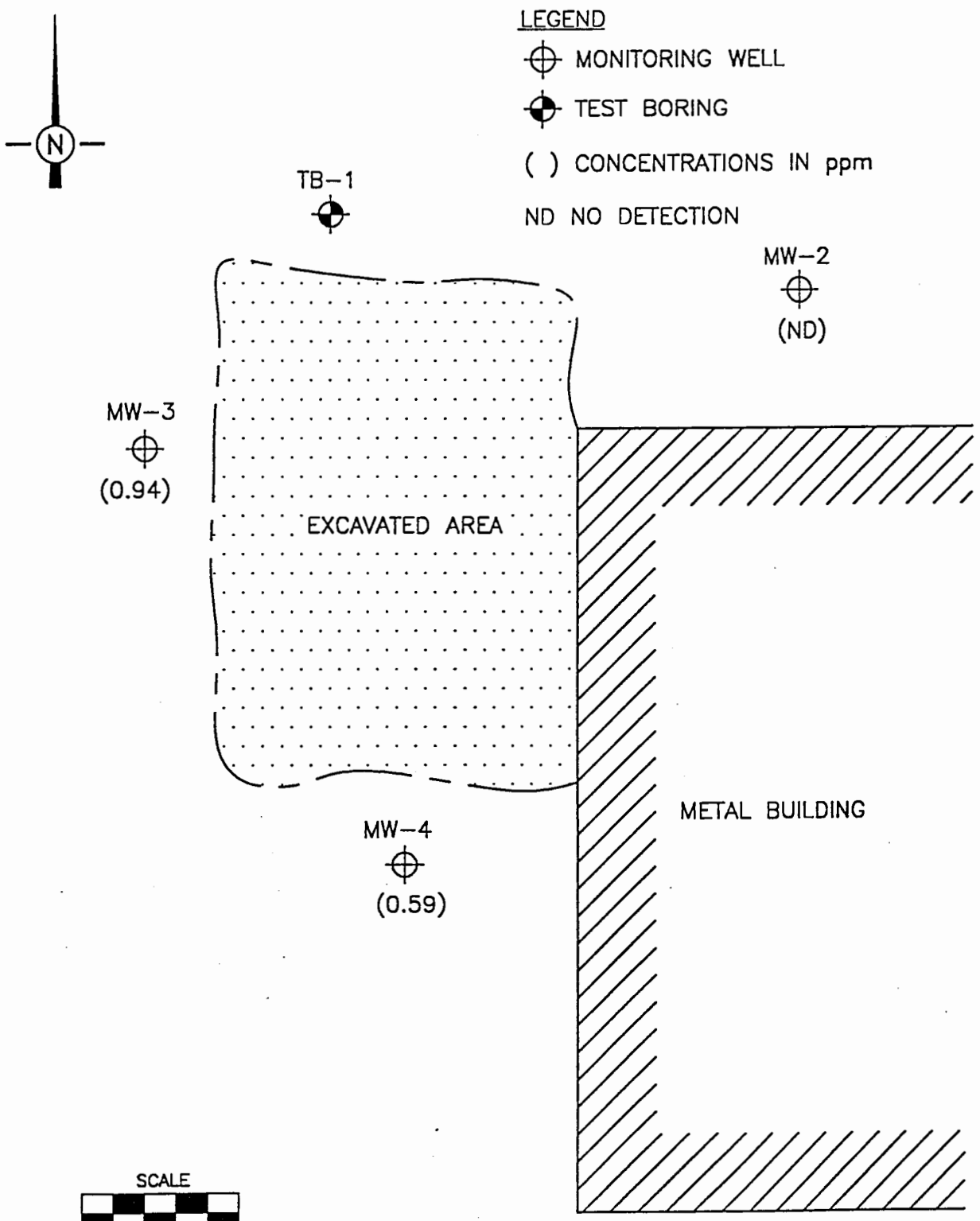
0 2' 4' 6' 8' 10'

THE INTERPRETATIONS IN THIS FIGURE ARE BASED ON KNOWN POINTS IN TIME AND SPACE AND ARE INTEGRAL TO A WRITTEN REPORT AND SHOULD BE REVIEWED IN THAT CONTEXT.

Fluid Management, Inc.

FIGURE 4
GROUNDWATER DRO DISTRIBUTION MAP 10/12/93
ALLOY PRODUCTS CORP.
WAUKESHA, WISCONSIN

APPROVED BY:	
CHECKED BY:	
7/18/94	
DLA	
DRAWN BY:	
92.680.4	
DRAWING NO.	



THE INTERPRETATIONS IN THIS FIGURE ARE BASED ON KNOWN POINTS IN TIME AND SPACE AND ARE INTEGRAL TO A WRITTEN REPORT AND SHOULD BE REVIEWED IN THAT CONTEXT.

Fluid Management, Inc.

FIGURE 5
GROUNDWATER DRO DISTRIBUTION MAP 5/27/94
ALLOY PRODUCTS CORP.
WAUKESHA, WISCONSIN

APPROVED BY:	
CHECKED BY:	
7/18/94	
DLA	
DRAWN BY:	
92.680.5	
DRAWING NO.	

LABORATORY ANALYTICAL REPORTS

Telephone: (414) 521-2470
FAX: (414) 521-0625

SUBURBAN LABORATORIES of WISCONSIN, Inc.

"Analytical Testing"
N8 W22520-B Johnson Drive Waukesha, WI 53186

RECEIVED
AUG 13 1993

FINAL REPORT OF LABORATORY ANALYSIS
LEVEL II

Fluid Management, Inc.
PO Box 90
Pewaukee, WI 53072

Attention: DOUG JACOBSEN

Report Date: August 5, 1993 10:51
SLI Order Number: W307279
Page Number: 1

Alloy Products

Date Samples Received: 07/20/93
Samples Collected By: CLIENT

Project ID.: 92.680
P.O. #:

Sample ID: B-1 3.5-5
Sample Type: SOIL

Date Collected: 07/19/93
SLI ID: W307279-01A

PARAMETER	RESULT	UNITS	MDL	DATE EXTRACTED	DATE ANALYZED	BY	METHOD
DIESEL RANGE ORGANICS	<10.0	mg/kg	10.0	07/20/93	08/03/93	DH	WI DNR MOD

Telephone: (414) 521-2470
FAX: (414) 521-0629

SUBURBAN LABORATORIES of WISCONSIN, Inc.

"Analytical Testing"
N8 W22520-B Johnson Drive Waukesha, WI 53186

Client: *Fluid Management, Inc.*
SLI Order Number: W307279

Report Date: August 5, 1993 10:51
Page Number: 2

Sample ID: B-1 8.5-10
Sample Type: SOIL

Date Collected: 07/19/93
SLI ID: W307279-02A

PARAMETER	RESULT	UNITS	MDL	DATE EXTRACTED	DATE ANALYZED	BY	METHOD
DIESEL RANGE ORGANICS	38.6	mg/kg	10.0	07/20/93	08/03/93	DH	WI DNR MOD

Telephone: (414) 521-2470
FAX: (414) 521-0626

SUBURBAN LABORATORIES of WISCONSIN, Inc.

"Analytical Testing"
N8 W22520-B Johnson Drive Waukesha, WI 53186

Client: *Fluid Management, Inc.*
SLI Order Number: W307279

Report Date: August 5, 1993 10:51
Page Number: 3

Sample ID: MW-3 3.5-5
Sample Type: SOIL

Date Collected: 07/19/93
SLI ID: W307279-03A

PARAMETER	RESULT	UNITS	MDL	DATE EXTRACTED	DATE ANALYZED	BY	METHOD
DIESEL RANGE ORGANICS	<10.0	mg/kg	10.0	07/20/93	08/03/93	DH	WI DNR MOD

Telephone: (414) 521-2470
FAX: (414) 521-0626

SUBURBAN LABORATORIES of WISCONSIN, Inc.

"Analytical Testing"
N8 W22520-B Johnson Drive Waukesha, WI 53186

Client: *Fluid Management, Inc.*
SLI Order Number: W307279

Report Date: August 5, 1993 10:51
Page Number: 4

Sample ID: MW-3 8.5-10
Sample Type: SOIL

Date Collected: 07/19/93
SLI ID: W307279-04A

PARAMETER	RESULT	UNITS	MDL	DATE EXTRACTED	DATE ANALYZED	BY	METHOD
DIESEL RANGE ORGANICS	104	mg/kg	10.0	07/20/93	08/03/93	DH	WI DNR MOD

Telephone: (414) 521-247
FAX: (414) 521-062

SUBURBAN LABORATORIES of WISCONSIN, Inc.

"Analytical Testing"
N8 W22520-B Johnson Drive Waukesha, WI 53186

Client: *Fluid Management, Inc.*
SLI Order Number: W307279

Report Date: August 5, 1993 10:51
Page Number: 5

Sample ID: MW-2 6-7.5
Sample Type: SOIL

Date Collected: 07/19/93
SLI ID: W307279-05A

PARAMETER	RESULT	UNITS	MDL	DATE EXTRACTED	DATE ANALYZED	BY	METHOD
DIESEL RANGE ORGANICS	<10.0	mg/kg	10.0	07/20/93	08/03/93	DH	WI DNR MOD

Telephone: (414) 521-2470
FAX: (414) 521-0625

SUBURBAN LABORATORIES of WISCONSIN, Inc.

"Analytical Testing"
N8 W22520-B Johnson Drive Waukesha, WI 53186

Client: *Fluid Management, Inc.*
SLI Order Number: W307279

Report Date: August 5, 1993 10:51
Page Number: 6

Sample ID: MW-2 8.5-10
Sample Type: SOIL

Date Collected: 07/19/93
SLI ID: W307279-06A

PARAMETER	RESULT	UNITS	MDL	DATE EXTRACTED	DATE ANALYZED	BY	METHOD
DIESEL RANGE ORGANICS	102	mg/kg	10.0	07/20/93	08/03/93	DH	WI DNR MOD

Telephone: (414) 521-2470
FAX: (414) 521-0626

SUBURBAN LABORATORIES of WISCONSIN, Inc.

"Analytical Testing"
N8 W22520-B Johnson Drive Waukesha, WI 53186

Client: *Fluid Management, Inc.*
SLI Order Number: W307279

Report Date: August 5, 1993 10:51
Page Number: 7

Sample ID: MW-4 6-7.5
Sample Type: SOIL

Date Collected: 07/19/93
SLI ID: W307279-07A

PARAMETER	RESULT	UNITS	MDL	DATE EXTRACTED	DATE ANALYZED	BY	METHOD
DIESEL RANGE ORGANICS	<10.0	mg/kg	10.0	07/20/93	08/03/93	DH	WI DNR MOD

Telephone: (414) 521-2470
FAX: (414) 521-0626

SUBURBAN LABORATORIES of WISCONSIN, Inc.

"Analytical Testing"
N8 W22520-B Johnson Drive Waukesha, WI 53186

Client: *Fluid Management, Inc.*
SLI Order Number: W307279

Report Date: August 5, 1993 10:51
Page Number: 8

Sample ID: MW-4 8.5-10
Sample Type: SOIL

Date Collected: 07/19/93
SLI ID: W307279-08A

PARAMETER	RESULT	UNITS	MDL	DATE EXTRACTED	DATE ANALYZED	BY	METHOD
DIESEL RANGE ORGANICS	<10.0	mg/kg	10.0	07/20/93	08/03/93	DH	WI DNR MOD

COMMENTS

Analysis Certified By: David J. Hutchins Laboratory Director

Reported By: JENNI
Verified By: JME

SUBURBAN LABORATORIES of WISCONSIN, Inc.
N8 W22520-B Johnson Drive Waukesha, WI 53186

Phone: (414) 521-2470
Fax: (414) 521-0626

CHAIN OF CUSTODY RECORD

Sample Collector(s): Ted Hubbes	Company: Fluid Management, Inc.	Phone # 414 549 6898 Fax # 414 549 6933
Property Owner:	Property Address:	Phone #:
Project Manager (Report To): Doug Jacobsen	Project Name: 92.680	T.A.T.: Normal

Relinquished By	Date / Time	Received By	Received Sample Condition
Ted Hubbes	7/20/93 2pm	D. Haines	Good PEJ
D. Haines	7/20/93 2pm	[illegible]	

Field ID Number	Date / Time Collected	Sample Matrix	Preserv Type	Sample Location	No. / Type of Containers	ARO	SLI / WI Number
B-1	7.19.93 Am	Soil	—	3.5-5	1-2oz. 1-4oz.	X	WB-07-279-01
B-1			—	8.5-10		X	02
MW-3			—	3.5-5		X	03
MW-3			—	8.5-10		X	04
MW-2			—	6-7.5		X	05
MW-2			—	8.5-10		X	06
MW-4			—	6-7.5		X	07
MW-4			—	8.5-10		X	08
~~TRIP BLANK~~		~~Moist~~	—		~~1-40 ml~~	X	

Remarks:

White-Accompanies Shipment, Yellow-SLI, Pink-Client Copy

SUBURBAN LABORATORIES of WISCONSIN, Inc.

N8 W22520-B Johnson Drive Waukesha, WI 53186
Phone: (414) 521-2470
Fax: (414) 521-0626

CHAIN OF CUSTODY RECORD

Sample Collector(s)	Company	Phone # 414 549 6898
Ted Hubbes	Fluid Management, Inc.	Fax # 414 549 6938
Property Owner	Property Address	Phone #
Project Manager (Report To)	Project Name	T.A.T.
Doug Jacobsen	92.680	Normal

Relinquished By	Date / Time	Received By	Received Sample Condition
Ted Hubbes	7/20/93 2pm	D. Haines	Good RUT
Relinquished By	Date / Time	Received By	
D Haines	7/20/93 2pm	[illegible]	
Relinquished By	Date / Time	Received By	

Field ID Number	Date / Time Collected	Sample Matrix	Preserv Type	Sample Location	No. / Type of Containers	DRO						SLI / WI Number
B-1	7.19.93 Am	Soil	—	3.5-5	1-2oz. 1-4oz.	X						
B-1			—	8.5-10		X						
MW-3			—	3.5-5		X						
MW-3			—	8.5-10		X						
MW-2			—	6-7.5		X						
MW-2			—	8.5-10		X						
MW-4			—	6-7.5		X						
MW-4			—	8.5-10		X						
~~TRIP BLANK~~		Meoh	—		1.40 ml	X						

Remarks:

White-Accompanies Shipment, Yellow-SLI, Pink-Client Copy

Telephone: (414) 521-247
FAX: (414) 521-062

SUBURBAN LABORATORIES of WISCONSIN, Inc.

"Analytical Testing"
N8 W22520-B Johnson Drive Waukesha, WI 53186

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JAN 27 1994

FINAL REPORT OF LABORATORY ANALYSIS
LEVEL II

Fluid Management, Inc.
PO Box 90
Pewaukee, WI 53072

Report Date: January 19, 1994 10:34
SLI Order Number: W401061
Page Number: 1

Attention: D. JACOBSON

Alloy Products - EN11540

Date Samples Received: 01/05/94
Samples Collected By: CLIENT

Project ID.: 92.680
P.O. #:

Sample ID: #1 SW - 6ft
Sample Type: SOIL

Date Collected: 01/04/94
SLI ID: W401061-01A

PARAMETER	RESULT	UNITS	LIMIT	DATE EXTRACTED	DATE ANALYZED	BY	METHOD
Solids, Total	96.6	%	0.001		01/06/94	SR	EPA 160.3
DIESEL RANGE ORGANICS	138 +	mg/kg	10.0	01/06/94	01/15/94	JKK	WI DNR MOD

Telephone: (414) 521-247
FAX: (414) 521-062

SUBURBAN LABORATORIES of WISCONSIN, Inc.

"Analytical Testing"
N8 W22520-B Johnson Drive Waukesha, WI 53186

Client: *Fluid Management, Inc.*
SLI Order Number: W401061

Report Date: January 19, 1994 10:34
Page Number: 2

Sample ID: #2 S - MID 12ft
Sample Type: SOIL

Date Collected: 01/04/94
SLI ID: W401061-02A

PARAMETER	RESULT	UNITS	LIMIT	DATE EXTRACTED	DATE ANALYZED	BY	METHOD
Solids, Total	92.5	%	0.001		01/06/94	SR	EPA 160.3
DIESEL RANGE ORGANICS	3130 +	mg/kg	10.0	01/05/94	01/17/94	JKK	WI DNR MOD

Telephone: (414) 521-2470
FAX: (414) 521-0626

SUBURBAN LABORATORIES of WISCONSIN, Inc.

"Analytical Testing"
N8 W22520-B Johnson Drive Waukesha, WI 53186

Client: *Fluid Management, Inc.*
SLI Order Number: W401061

Report Date: January 19, 1994 10:34
Page Number: 3

Sample ID: #3 SE - 12ft
Sample Type: SOIL

Date Collected: 01/04/94
SLI ID: W401061-03A

PARAMETER	RESULT	UNITS	LIMIT	DATE EXTRACTED	DATE ANALYZED	BY	METHOD
Solids, Total	90.9	%	0.001		01/06/94	SR	EPA 160.3
DIESEL RANGE ORGANICS	547 +	mg/kg	10.0	01/05/94	01/17/94	JKK	WI DNR MOD

Telephone: (414) 521-2470
FAX: (414) 521-0626

SUBURBAN LABORATORIES of WISCONSIN, Inc.

"Analytical Testing"
N8 W22520-B Johnson Drive Waukesha, WI 53186

Client: *Fluid Management, Inc.*
SLI Order Number: W401061

Report Date: January 19, 1994 10:34
Page Number: 4

Sample ID: #4 NE - 6ft
Sample Type: SOIL

Date Collected: 01/04/94
SLI ID: W401061-04A

PARAMETER	RESULT	UNITS	LIMIT	DATE EXTRACTED	DATE ANALYZED	BY	METHOD
Solids, Total	82.4	%	0.001		01/06/94	SR	EPA 160.3
DIESEL RANGE ORGANICS	<10.0	mg/kg	10.0	01/05/94	01/17/94	JKK	WI DNR MOD

Telephone: (414) 521-2470
FAX: (414) 521-0626

SUBURBAN LABORATORIES of WISCONSIN, Inc.

"Analytical Testing"
N8 W22520-B Johnson Drive Waukesha, WI 53186

Client: *Fluid Management, Inc.*
SLI Order Number: W401061

Report Date: January 19, 1994 10:34
Page Number: 5

Sample ID: #5 NW - 6ft
Sample Type: SOIL

Date Collected: 01/04/94
SLI ID: W401061-05A

PARAMETER	RESULT	UNITS	LIMIT	DATE EXTRACTED	DATE ANALYZED	BY	METHOD
Solids, Total	86.0	%	0.001		01/06/94	SR	EPA 160.3
DIESEL RANGE ORGANICS	382	mg/kg	10.0	01/05/94	01/17/94	JKK	WI DNR MOD

COMMENTS

LIMIT: The lowest concentration that can be reliably achieved within specified requirements of precision and accuracy during routine laboratory operating conditions. Limit may also represent a project specific reporting level.

Analysis Certified By: _____ Laboratory Director

(Last Page)

Reported By: JENNI
Verified By: DJH

SUBURBAN LABORATORIES of WISCONSIN, Inc.

N8 W22520-B Johnson Drive Waukesha, WI 53186
Phone: (414) 521-2470
Fax: (414) 521-0626

CHAIN OF CUSTODY RECORD

Sample Collector[s]: D. Jacobson	Company: Fluid Mgmt	Phone # 414-291-8252 Fax # 414 291-8299
Property Owner:	Property Address:	Phone #:
Project Manager [Report To]: D. Jacobson	Project Name: 92.680	T.A.T.:

Relinquished By	Date / Time	Received By	Received Sample Condition
[signature]	1.5.93 1 4p	[signature]	Good Refrig @ 4°C
Relinquished By:	Date / Time:	Received By:	
Relinquished By:	Date / Time:	Received By:	

Field ID Number	Date / Time Collected	Sample Matrix	Preserv Type	Sample Location	No. / Type of Containers	DRO						SLI / WI Number
1	1/4/94	Soil	1-MeOH	SW - 6 FT	2	X						W4-01-06-01
2	1/4/94			S - Mid - 12 FT	2	X						02
3	1/4/94			SE - 12 FT	2	X						03
4	1/4/94			NE - 6 FT	2	X						04
5	1/4/94			NW - 6 FT	2	X						05

Remarks:

NATIONAL ENVIRONMENTAL TESTING, INC.

Watertown Division
602 Commerce Drive
P.O. Box 288
Watertown, WI 53094
Tel: (414) 261-1660
Fax: (414) 261-8120

RECEIVED
MAY 0 2 1994

ANALYTICAL REPORT

Mr. Doug Jacobson
FLUID MANAGEMENT, INC.
PO Box 90
Pewaukee, WI 53072

04/29/1994

Job Number: 93.04978

The following samples were received by NET for analysis:

Sample Number	Sample Description	Date Taken
82020	MW-2 92.680	10/12/1993
82021	MW-3 92.680	10/12/1993
82022	MW-4 92.680	10/12/1993

CASE NARRATIVE

This report is corrected to show that the samples in this project were taken on 10/12/1993, not 10/02/1993 as originally reported. The attached letter and field notes explain the error.

The above sample(s) may have a result flag shown on the report. The following are the result flag definitions:

A = Analyzed past hold time
C = Standard outside of control limits
E = Extracted past hold time
G = Received past hold time
I = Improperly handled sample
M = Matrix interference
S = Sediment present
X = Unidentified compound(s) present
B = Blank is contaminated
D = Diluted for analysis
F = Sample filtered in lab
H = Late eluting hydrocarbons present
J = Estimated concentration
P = Improperly preserved sample
T = Does not match typical pattern

NATIONAL ENVIRONMENTAL TESTING, INC.

Watertown Division
602 Commerce Drive
P.O. Box 288
Watertown, WI 53094
Tel: (414) 261-1660
Fax: (414) 261-8120

ANALYTICAL REPORT

Mr. Doug Jacobson
FLUID MANAGEMENT, INC.
PO Box 90
Pewaukee, WI 53072

04/29/1994
Job No: 93.04978
Sample No: 82020
Account No: 28500
Page 1

JOB DESCRIPTION: 92.680
PROJECT DESCRIPTION: Ground Water Analysis
SAMPLE DESCRIPTION: MW-2 92.680
Recv'd 3deg C.

Date Taken: 10/12/1993 Date Received: 10/14/1993

Parameter		Results	Units	Method	Detection Limit	Date Analyzed
DRO Extraction		10/18/93				10/18/1993
DRO - AQUEOUS	H	0.25	mg/L	WDNR	0.10	10/24/1993

Corrected Report

Brian D. DeJong, Organic Operation Manager
Certification No. 128053530

NATIONAL ENVIRONMENTAL TESTING, INC.

Watertown Division
602 Commerce Drive
P.O. Box 288
Watertown, WI 53094
Tel: (414) 261-1660
Fax: (414) 261-8120

ANALYTICAL REPORT

Mr. Doug Jacobson
FLUID MANAGEMENT, INC.
PO Box 90
Pewaukee, WI 53072

04/29/1994
Job No: 93.04978
Sample No: 82021
Account No: 28500
Page 2

JOB DESCRIPTION: 92.680
PROJECT DESCRIPTION: Ground Water Analysis
SAMPLE DESCRIPTION: MW-3 92.680
Recv'd 3deg C.

Date Taken: 10/12/1993 Date Received: 10/14/1993

Parameter		Results	Units	Method	Detection Limit	Date Analyzed
DRO Extraction		10/18/93				10/18/1993
DRO - AQUEOUS	H	0.42	mg/L	WDNR	0.10	10/24/1993

Corrected Report

Brian D. DeJong, Organic Operation Manager
Certification No. 128053530

NATIONAL ENVIRONMENTAL TESTING, INC.

Watertown Division
602 Commerce Drive
P.O. Box 288
Watertown, WI 53094
Tel: (414) 261-1660
Fax: (414) 261-8120

ANALYTICAL REPORT

Mr. Doug Jacobson
FLUID MANAGEMENT, INC.
PO Box 90
Pewaukee, WI 53072

04/29/1994
Job No: 93.04978
Sample No: 82022
Account No: 28500
Page 3

JOB DESCRIPTION: 92.680
PROJECT DESCRIPTION: Ground Water Analysis
SAMPLE DESCRIPTION: MW-4 92.680
Recv'd 3deg C.

Date Taken: 10/12/1993 Date Received: 10/14/1993

Parameter	Results	Units	Method	Detection Limit	Date Analyzed
DRO Extraction	10/18/93				10/18/1993
DRO - AQUEOUS	<0.10	mg/L	WDNR	0.10	10/24/1993

Corrected Report

Brian DeJong

Brian D. DeJong, Organic Operation Manager
Certification No. 128053530

NET® NATIONAL ENVIRONMENTAL TESTING, INC.

Watertown Division
602 Commerce Drive
P.O. Box 288
Watertown, WI 53094
Tel: (414) 261-1660
Fax: (414) 261-8120

ANALYTICAL REPORT

Ms. Evelyn Hicks
FLUID MANAGEMENT, INC.
PO Box 90
Pewaukee, WI 53072

06/29/1994
Job No: 94.02413
Account No: 28500
Purchase Order:
Page 1

Job Description: 92.680
Recv'd On Ice

Date Taken: SEE BELOW

Date Received: 05/31/1994

Parameter	Result	Units	Method	Detection Limit	Date Analyzed
99291 MW-2 92.680			05/27/1994 16:30		
DRO Extraction	06/02/94		WDNR		06/02/1994
DRO - AQUEOUS	<0.1	mg/L	WDNR	0.10	06/13/1994
99292 MW-3 92.680			05/27/1994 16:10		
DRO Extraction	06/02/94		WDNR		06/02/1994
DRO - AQUEOUS	0.94	mg/L	WDNR	0.10	06/13/1994
99293 MW-4 92.680			05/27/1994 16:25		
DRO Extraction	06/02/94		WDNR		06/02/1994
DRO - AQUEOUS	0.59	mg/L	WDNR	0.10	06/13/1994

Corrected Report

Brian D. DeJong
Organic Operation Manager
Certification No. 128053530

NATIONAL ENVIRONMENTAL TESTING, INC.

CHAIN OF CUSTODY RECORD

94.02413

COMPANY: Fluid Management Inc.
ADDRESS: 2831 N. Grandview Blvd.
PHONE: (414)549-6898 FAX: (414)549-6938
PROJECT NAME/LOCATION:
PROJECT NUMBER: 92.686
PROJECT MANAGER: Tom Frost

REPORT TO: E. Hicks
INVOICE TO:
P.O. NO.
NET QUOTE NO.

SAMPLED BY: Scott Schuman (PRINT NAME) — SIGNATURE
(PRINT NAME) — SIGNATURE

ANALYSES: DRO

DATE	TIME	SAMPLE ID/DESCRIPTION	GRAB	COMP	# OF CONTAINERS TYPE	MATRIX	PRESERVED Y/N	DRO	COMMENTS
5/27/94	1630	MW-2 Change by TMF Fluid Mngmt	X		2/1L	Water	HCl	X	
	1610	MW-3	X					X	
	1625	MW-4	X					X	

CONDITION OF SAMPLE: BOTTLES INTACT? YES / NO
FIELD FILTERED? ~~YES/NO~~
COC SEALS PRESENT AND INTACT? ~~YES/NO~~
VOLATILES FREE OF HEADSPACE? ~~YES/NO~~
TEMPERATURE UPON RECEIPT: VCO

SAMPLE REMAINDER DISPOSAL: RETURN SAMPLE REMAINDER TO CLIENT VIA
I REQUEST NET TO DISPOSE OF ALL SAMPLE REMAINDERS — DATE

RELINQUISHED BY:	DATE/TIME	RECEIVED BY:	RELINQUISHED BY:	DATE/TIME	RECEIVED FOR NET BY:
Scott Schuman	5/28/94 1600	A Kasaulee 5 31 94 1545	A Kasaulee 5 31 94 1740		Kerri Kalb 6-1-94

METHOD OF SHIPMENT

REMARKS:

WDNR FORMS

State of Wisconsin
Department of Natural Resources

Route To:
- [x] Solid Waste
- [ ] Emergency Response
- [ ] Wastewater
- [ ] Haz. Waste
- [ ] Underground Tanks
- [ ] Water Resources
- [ ] Other _____

SOIL BORING LOG INFORMATION
Form 4400-122 7-91

Page 1 of 1

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
ALLOY PRODUCTS CORP.	_ _ _ _ _ _ _ _	MW-3

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
ROCK & SOIL DRILLING CO. (TIM MITCHELL) FLUID MANAGEMENT, INC (TED HUBBES)	07/19/93 (MM DD YY)	07/19/93 (MM DD YY)	Hollow Stem Auger

DNR Facility Well No.	Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		MW-3	92.0 Feet ~~MSL~~	100.19 Feet ~~MSL~~	8.25 Inches

~~Boring Location~~ RELATIVE STATION:
~~State Plane~~ 5000 N, 5000 E ~~S/C/N~~

SW 1/4 of SE 1/4 of Section 35, T 7 N, R 19 (E)W

Lat NA
Long NA

Local Grid Location (If applicable)
5049.62 Feet [x] N [ ] S
4971.89 Feet [x] E [ ] W

County	DNR County Code	Civil Town/City/ or Village
WAUKESHA	67	WAUKESHA

Sample Number	Length Recovered (in)	Blow Counts	Depth in Foot	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/~~FID~~	Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	RQD/ Comments
S-1	6"	5/15/17		SAND & FILL MATERIAL	SM			4						
*S-2	16"	12/47/50	5	Brown, fine med. sand w/ some gravel	SP			6						
S-3	8"	12/17/35		brown/black gravelly sand bottom 2" saturated, slight odor	SP			2						
*S-4	6"	21/50/-	10	same as above saturated	SP			85						
S-5	0"	50/-/-	15	No recovery	-			-						
				END OF BORING @ 15'										

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

Signature	Firm
Thomas M. Frost	FLUID MANAGEMENT, INC.

This form is authorized by Chapters 144.147 and 162, Wis. Stats. Completion of this report is mandatory. Penalties: Forfeit not less than $10 nor more than $5,000 for each violation. Fined not less than $10 or more than $100 or imprisoned not less than 30 days, or both for each violation. Each day of continued violation is a separate offense, pursuant to ss 144.99 and 162.06, Wis. Stats.

* SAMPLE SUBMITTED FOR LABORATORY ANALYSIS

State of Wisconsin
Department of Natural Resources

Route To:
■ Solid Waste
☐ Emergency Response
☐ Wastewater
☐ Haz. Waste
☐ Underground Tanks
☐ Water Resources
☐ Other

SOIL BORING LOG INFORMATION
Form 4400-122 7-91

Page 1 of 1

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
ALLOY PRODUCTS CORP.	— — — — — — —	B-1

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
ROCK & SOIL DRILLING CO. (TIM MITCHELL) FLUID MANAGEMENT, INC (TED HUBBES)	07/19/93 (MM DD YY)	07/19/93 (MM DD YY)	Hollow Stem Auger

DNR Facility Well No.	Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		NA	NA Feet MSL	100 Feet MSL	6.25 Inches

Boring Location RELATIVE STATION:
State Plane 5000 N, 5000 E S/N
SW 1/4 of SE 1/4 of Section 35, T 7 N, R 19 E/W
Lat NA
Long NA

Local Grid Location (If applicable)
■ N 5064.73 Feet ☐ S ■ E 4983.81 Feet ☐ W

County	DNR County Code	Civil Town/City/or Village
WAUKESHA	67	WAUKESHA

Sample Number	Length Recovered (in)	Blow Counts	Depth in Foot	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	RQD/Comments
S-1	8"	3/4/5		brown sandy silt	ML			11						
*S-2	12"	3/7/10	5	brown/black sandy silt some odor	ML			13						
S-3	10"	11/17/19		brown gravelly sand odor, saturated	SP			11						
*S-4	6"	19/21/50	10	black gravelly sand odor, saturated	SP			42						
S-5			15	NA										
				END OF BORING @ 10'										

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

Signature	Firm
Thomas M. Frost	FLUID MANAGEMENT, INC.

This form is authorized by Chapters 144.147 and 162, Wis. Stats. Completion of this report is mandatory. Penalties: Forfeit not less than $10 nor more than $5,000 for each violation. Fined not less than $10 or more than $100 or imprisoned not less than 30 days, or both for each violation. Each day of continued violation is a separate offense, pursuant to ss 144.99 and 162.06, Wis. Stats.

* SAMPLE SUBMITTED FOR LABORATORY ANALYSIS

State of Wisconsin
Department of Natural Resources

Route To:
■ Solid Waste
☐ Emergency Response
☐ Wastewater
☐ Haz. Waste
☐ Underground Tanks
☐ Water Resources
☐ Other

SOIL BORING LOG INFORMATION
Form 4400-122 7-91

Page 1 of 1

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
ALLOY PRODUCTS CORP.	— — — — — — —	MW-2

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
ROCK & SOIL DRILLING CO. (TIM MITCHELL) FLUID MANAGEMENT, INC (TED HUBBES)	07/19/93 (MM DD YY)	07/19/93 (MM DD YY)	Hollow Stem Auger

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		MW-2	91.90 Feet	99.94 Feet	8.25 Inches

Boring Location / State Plane: RELATIVE STATION: 5000 N, 5000 E
Lat NA
Long NA
Local Grid Location (If applicable): ■ N 5059.79 Feet ☐ S ■ E 5014.28 Feet ☐ W

SW 1/4 of SE 1/4 of Section 35, T 7 N, R 19 E

County	DNR County Code	Civil Town/City/ or Village
WAUKESHA	67	WAUKESHA

Sample Number	Length Recovered (in)	Blow Counts	Depth in Foot	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	RQD/ Comments
S-1	0"	7/14/12		No recovery	—			—						
S-2	2"	5/6/7	5	brown sandy silt	MC			0						
* S-3	8"	2/5/13		same as above, wet some gravel	MC			4						
* S-4	8"	12/15/60	10	brown sand & gravel saturated, odor	SP			30						
S-5	2"	10/50/—	15	same as above	SP			2						
				END OF BORING @ 15'										

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

Signature: Thomas M. Frost
Firm: FLUID MANAGEMENT, INC.

This form is authorized by Chapters 144.147 and 162, Wis. Stats. Completion of this report is mandatory. Penalties: Forfeit not less than $10 nor more than $5,000 for each violation. Fined not less than $10 or more than $100 or imprisoned not less than 30 days, or both for each violation. Each day of continued violation is a separate offense, pursuant to ss 144.99 and 162.06, Wis. Stats.

* SAMPLE SUBMITTED FOR LABORATORY ANALYSIS

State of Wisconsin
Department of Natural Resources

Route To:
■ Solid Waste
☐ Emergency Response
☐ Wastewater
☐ Haz. Waste
☐ Underground Tanks
☐ Water Resources
☐ Other _____

SOIL BORING LOG INFORMATION
Form 4400-122 7-91

Page 1 of 1

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
ALLOY PRODUCTS CORP.	_ _ _ _ _ _ _ _	MW-4

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
ROCK & SOIL DRILLING CO. (TIM MITCHELL) FLUID MANAGEMENT, INC (TED HUBBES)	07/19/93 (MM DD YY)	07/19/93 (MM DD YY)	Hollow Stem Auger

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		MW-4	92.30 Feet	100.51 Feet	8.25 Inches

Boring Location / Start Point	Lat / Long	Local Grid Location (If applicable)
RELATIVE STATION: 5000 N, 5000 E SW 1/4 of SE 1/4 of Section 35, T 7 N, R 19 E/W	Lat NA Long NA	■ N 5022.54 Feet ☐ S ■ E 4988.67 Feet ☐ W

County	DNR County Code	Civil Town/City/ or Village
WAUKESHA	67	WAUKESHA

Sample Number	Length Recovered (in)	Blow Counts	Depth in Foot	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	RQD/ Comments
S-1	8"	3/5/8		brown silty sand, wet, slight odor	ML			0						
S-2	12"	12/18/23	5	brown gravelly sand slight odor	SP			0						
* S-3	6"	7/10/27		same as above, wet	SP			2						
* S-4	6"	17/50/-	10	same as above, saturated	SP			2						
S-5	2"	13/50/-	15	same as above, no odor	SP			2						
				END OF BORING @ 15'										

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

Signature	Firm
Thomas M. Frost	FLUID MANAGEMENT, INC.

This form is authorized by Chapters 144.147 and 162, Wis. Stats. Completion of this report is mandatory. Penalties: Forfeit not less than $10 nor more than $5,000 for each violation. Fined not less than $10 or more than $100 or imprisoned not less than 30 days, or both for each violation. Each day of continued violation is a separate offense, pursuant to ss 144.99 and 162.06, Wis. Stats.

* SAMPLE SUBMITTED FOR LABORATORY ANALYSIS

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT
Form 4400-113B Rev. 4-90

Route to: Solid Waste ■ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ☐ Underground Tanks ☐ Other ☐ _____

Facility/Project Name	County Name	Well Name
ALLOY PRODUCTS CORP.	WAUKESHA	MW-2
Facility License, Permit or Monitoring Number	**County Code**	**Wis. Unique Well Number / DNR Well Number**
_____	67	

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 VACUUM TRUCK ■

3. Time spent developing well 30 min.

4. Depth of well (from top of well casing) 14.5 ft.

5. Inside diameter of well 2.00 in.

6. Volume of water in filter pack and well casing 1.8 gal.

7. Volume of water removed from well 18.2 gal.

8. Volume of water added (if any) 0.0 gal.

9. Source of water added NA

NA

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. 7.54 ft.	NA ft.
Date	b. 10/12/93 (m m d d y y)	10/12/93 (m m d d y y)
Time	c. 8:15 ■ a.m. ☐ p.m.	8:45 ■ a.m. ☐ p.m.
12. Sediment in well bottom	0.0 inches	0.0 inches
13. Water clarity	Clear ☐ 10 / Turbid ■ 15 (Describe)	Clear ☐ 20 / Turbid ■ 25 (Describe)

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. Additional comments on development:

10 WELL VOLUMES REMOVED WITH VACUUM TRUCK

Well developed by: Person's Name and Firm

Name: ANDY EHLERT

Firm: FLUID MANAGEMENT, INC

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

Signature: Thomas M. Frost

Print Initials: TMF

Firm: FLUID MANAGEMENT, INC.

NOTE: Shaded areas are for DNR use only. See instructions for more information including a list of county codes.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT
Form 4400-113B Rev. 4-90

Route to: Solid Waste ■ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ☐ Underground Tanks ☐ Other ☐ _____

Facility/Project Name	County Name	Well Name
ALLOY PRODUCTS CORP.	WAUKESHA	MW-3
Facility License, Permit or Monitoring Number	**County Code**	**Wis. Unique Well Number / DNR Well Number**
_____	67	

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 VACUUM TRUCK ■

3. Time spent developing well 30 min.

4. Depth of well (from top of well casing) 14.3 ft.

5. Inside diameter of well 2.00 in.

6. Volume of water in filter pack and well casing 1.7 gal.

7. Volume of water removed from well 17.2 gal.

8. Volume of water added (if any) 0.0 gal.

9. Source of water added NA

   NA

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. 7.71 ft.	NA ft.
Date	b. 10/12/93 (m m d d y y)	10/12/93 (m m d d y y)
Time	c. 8:45 ■ a.m. ☐ p.m.	9:15 ■ a.m. ☐ p.m.
12. Sediment in well bottom	0.0 inches	0.0 inches
13. Water clarity	Clear ☐ 10 Turbid ■ 15 (Describe)	Clear ☐ 20 Turbid ■ 25 (Describe)

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. Additional comments on development:

10 WELL VOLUMES REMOVED WITH VACUUM TRUCK

Well developed by: Person's Name and Firm

Name: ANDY EHLERT

Firm: FLUID MANAGEMENT, INC

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

Signature: Thomas M. Frost

Print Initials: TMF

Firm: FLUID MANAGEMENT, INC.

NOTE: Shaded areas are for DNR use only. See instructions for more information including a list of county codes.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT
Form 4400-113B Rev. 4-90

Route to: Solid Waste ■ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ☐ Underground Tanks ☐ Other ☐ _____

Facility/Project Name	County Name	Well Name
ALLOY PRODUCTS CORP.	WAUKESHA	MW-4
Facility License, Permit or Monitoring Number	**County Code**	**Wis. Unique Well Number** / **DNR Well Number**
_____	67	_____

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 VACUUM TRUCK ■ ___

3. Time spent developing well 30 min.

4. Depth of well (from top of well casing) 14.9 ft.

5. Inside diameter of well 2.00 in.

6. Volume of water in filter pack and well casing 1.8 gal.

7. Volume of water removed from well 17.8 gal.

8. Volume of water added (if any) 0.0 gal.

9. Source of water added NA

NA

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. 7.97 ft.	NA ft.
Date	b. 10/12/93 (m m d d y y)	10/12/93 (m m d d y y)
Time	c. 9:15 ■ a.m. ☐ p.m.	9:45 ■ a.m. ☐ p.m.
12. Sediment in well bottom	0.0 inches	0.0 inches
13. Water clarity	Clear ☐ 10 / Turbid ■ 15 (Describe)	Clear ☐ 20 / Turbid ■ 25 (Describe)

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. Additional comments on development:

10 WELL VOLUMES REMOVED WITH VACUUM TRUCK

Well developed by: Person's Name and Firm

Name: ANDY EHLERT

Firm: FLUID MANAGEMENT, INC

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

Signature: Thomas M. Frost

Print Initials: TMF

Firm: FLUID MANAGEMENT, INC.

NOTE: Shaded areas are for DNR use only. See instructions for more information including a list of county codes.

State of Wisconsin
Department of Natural Resources

Route to: Solid Waste ■ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ☐ Underground Tanks ☐ Other ☐ _____

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 4-90

Facility/Project Name: ALLOY PRODUCTS CORP	Local Grid Location of Well: 5059.79 ft. ■ N. ☐ S. 5014.28 ft. ■ E. ☐ W.	Well Name: MW-2
Facility License, Permit or Monitoring Number: _____	Grid Origin Location: Lat. NA Long. NA or RELATIVE STATION: ~~St. Plane~~ 5000 ft. N, 5000 ft. E.	Wis. Unique Well Number / DNR Well Number
Type of Well: Water Table Observation Well ■ 11; Piezometer ☐ 12	Section Location of Waste/Source: SW 1/4 of SE 1/4 of Sec. 35, T. 7 N, R. 19 ■ E. ☐ W.	Date Well Installed: 07/19/93 (m m d d y y)
Distance Well Is From Waste/Source Boundary: NA ft.	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ■ Not Known	Well Installed By: (Person's Name and Firm) TED HUBBES, FLUID MNGMT. INC; TIM MITCHELL, ROCK & SOIL DRILL.
Is Well A Point of Enforcement Std. Application? ☐ Yes ■ No		

A. Protective pipe, top elevation 99.94 ft. MSL
B. Well casing, top elevation 99.44 ft. MSL
C. Land surface elevation 99.9 ft. MSL
D. Surface seal, bottom _____ ft. MSL or 1.0 ft.

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

13. Sieve analysis attached? ☐ Yes ■ No

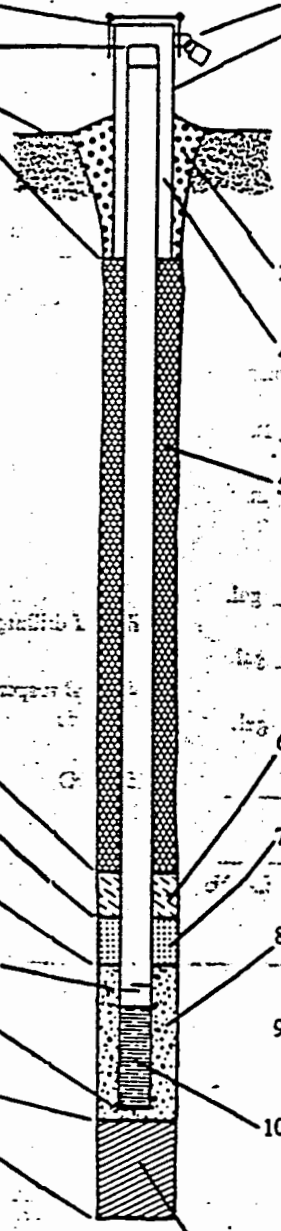
14. Drilling method used: Rotary ☐ 50; Hollow Stem Auger ■ 41; Other ☐

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

16. Drilling additives used? ☐ Yes ■ No
Describe NA

17. Source of water (attach analysis): NA

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 3.0 ft.
H. Screen joint, top _____ ft. MSL or 4.5 ft.
I. Well bottom _____ ft. MSL or 14.5 ft.
J. Filter pack, bottom _____ ft. MSL or 15.0 ft.
K. Borehole, bottom _____ ft. MSL or 15.0 ft.
L. Borehole, diameter 8.3 in.
M. O.D. well casing 2.83 in.
N. I.D. well casing 2.00 in.



1. Cap and lock? ■ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: 8.0 in.
b. Length: 1.0 ft.
c. Material: ALUMINUM — Steel ☐ 04; Other ■
d. Additional protection? ☐ Yes ■ No
If yes, describe: _____
3. Surface seal: Bentonite ☐ 30; Concrete ■ 01; Other ☐
4. Material between well casing and protective pipe: Bentonite ☐ 30; Annular space seal ☐; Other ■ NA
5. Annular space seal: NA
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. NA 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 & mesh size
a. NA
b. Volume added NA ft^3
8. Filter pack material: Manufacturer, product name and mesh size
a. GOLD MEDAL 20
b. Volume added 4.08 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 JOHNSON
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
Thomas M. Fivel	FLUID MANAGEMENT, INC.

Please complete both sides of this form and return to the appropriate DNR office listed at the top of this form as required by chs. 144, 147 and 160, Wis. Stats., and ch. NR 141, Wis. Ad. Code. In accordance with ch.144, Wis Stats., failure to file this form may result in a forfeiture of not less than $10, nor more than $5000 for each day of violation. In accordance with ch. 147, Wis. Stats., failure to file this form may result in a forfeiture of not more than $10,000 for each day of violation. NOTE: Shaded areas are for DNR use only. See instructions for more information including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

Route to: Solid Waste ■ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ☐ Underground Tanks ☐ Other ☐ _____

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 4-90

Facility/Project Name: ALLOY PRODUCTS CORP	Local Grid Location of Well: 5049.62 ft. ■ N. ☐ S. 4971.89 ft. ■ E. ☐ W.	Well Name: MW-3
Facility License, Permit or Monitoring Number: _____	Grid Origin Location: Lat. NA Long. NA or RELATIVE STATION St. Plane 5000 ft. N. 5000 ft. E.	Wis. Unique Well Number / DNR Well Number: _____
Type of Well: Water Table Observation Well ■ 11; Piezometer ☐ 12	Section Location of Waste/Source: SW 1/4 of SE 1/4 of Sec. 35 T. 7 N. R. 19 ■ E. ☐ W.	Date Well Installed: 07/19/93 (m m d d y y)
Distance Well Is From Waste/Source Boundary: NA ft.	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ■ Not Known	Well Installed By: (Person's Name and Firm) TED HUBBES, FLUID MNGMT. INC; TIM MITCHELL, ROCK & SOIL DRILL
Is Well A Point of Enforcement Std. Application? ☐ Yes ■ No		

A. Protective pipe, top elevation 100.19 ft. MSL

B. Well casing, top elevation 99.71 ft. MSL

C. Land surface elevation 100.2 ft. MSL

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

12. USCS 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 NA

17. Source of water (attach analysis): NA

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 3.0 ft.

H. Screen joint, top _____ ft. MSL or 4.5 ft.

I. Well bottom _____ ft. MSL or 14.5 ft.

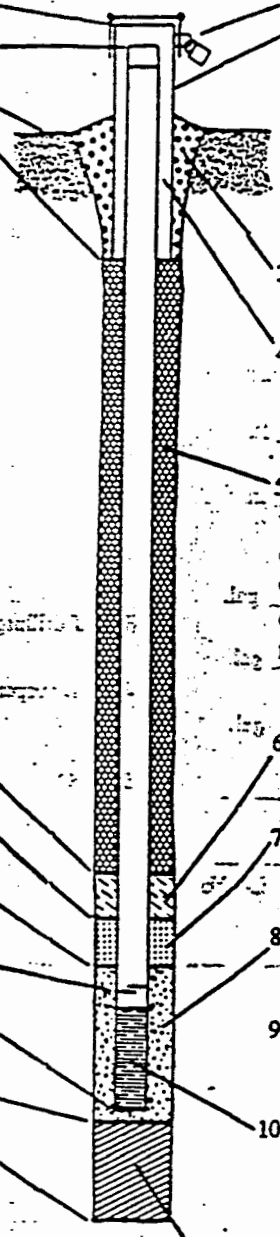
J. Filter pack, bottom _____ ft. MSL or 15.0 ft.

K. Borehole, bottom _____ ft. MSL or 15.0 ft.

L. Borehole, diameter 8.2 in.

M. O.D. well casing 2.83 in.

N. I.D. well casing 2.00 in.



1. Cap and lock? ■ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: 8.0 in.
b. Length: 1.0 ft.
c. Material: ALUMINUM — Steel ☐ 04; Other ■ ____
d. Additional protection? ☐ Yes ■ No
If yes, describe: _____

3. Surface seal: Bentonite ☐ 30; Concrete ■ 01; Other ☐ ____

4. Material between well casing and protective pipe: Bentonite ☐ 30; Annular space seal ☐ ____; Other ■ ____
NA

5. Annular space seal: NA
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. NA 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 & mesh size
a. NA
b. Volume added NA ft³

8. Filter pack material: Manufacturer, product name and mesh size
a. GOLD MEDAL 20
b. Volume added 4.08 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 JOHNSON
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: Thomas M. Hirst
Firm: FLUID MANAGEMENT, INC.

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State of Wisconsin
Department of Natural Resources

Route to: Solid Waste ■ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ☐ Underground Tanks ☐ Other ☐ _____

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 4-90

Facility/Project Name: ALLOY PRODUCTS CORP	Local Grid Location of Well: 5022.54 ft. ■ N ☐ S, 4988.67 ft. ■ E ☐ W	Well Name: MW-4
Facility License, Permit or Monitoring Number: _____	Grid Origin Location: Lat. NA Long. NA or	Wis. Unique Well Number / DNR Well Number
Type of Well: Water Table Observation Well ■ 11; Piezometer ☐ 12	RELATIVE STATION: ~~St-Plane~~ 5000 ft. N, 5000 ft. E.	Date Well Installed: 07/19/93 (m m d d y y)
Distance Well Is From Waste/Source Boundary: NA ft.	Section Location of Waste/Source: SW 1/4 of SE 1/4 of Sec. 35 T. 7 N. R. 19 ■ E ☐ W.	Well Installed By: (Person's Name and Firm) TED HUBBES, FLUID MNGMT. INC
Is Well A Point of Enforcement Std. Application? ☐ Yes ■ No	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ■ Not Known	TIM MITCHELL, ROCK & SOIL DRILL

A. Protective pipe, top elevation 102.51 ft. MSL

B. Well casing, top elevation 100.27 ft. MSL

C. Land surface elevation 102.5 ft. MSL

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

12. USCS 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 NA

17. Source of water (attach analysis): NA

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 3.0 ft.

H. Screen joint, top _____ ft. MSL or 4.5 ft.

I. Well bottom _____ ft. MSL or 14.5 ft.

J. Filter pack, bottom _____ ft. MSL or 15.0 ft.

K. Borehole, bottom _____ ft. MSL or 15.0 ft.

L. Borehole, diameter 8.3 in.

M. O.D. well casing 2.83 in.

N. I.D. well casing 2.00 in.

1. Cap and lock? ■ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: 8.0 in.
b. Length: 1.0 ft.
c. Material: ALUMINUM — Steel ☐ 04; Other ■ ___
d. Additional protection? ☐ Yes ■ No
If yes, describe: _____

3. Surface seal: Bentonite ☐ 30; Concrete ■ 01; Other ☐ ___

4. Material between well casing and protective pipe: Bentonite ☐ 30; Annular space seal ☐ ___; Other ■ NA

5. Annular space seal: NA
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. NA 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 & mesh size
a. NA
b. Volume added NA ft^3

8. Filter pack material: Manufacturer, product name and mesh size
a. GOLD MEDAL 20
b. Volume added 4.08 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 JOHNSON
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: Thomas M. Frost
Firm: FLUID MANAGEMENT, INC.

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Department of Natural Resources

Form 3300-5B

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. Admin. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION

~~Well/Drillhole/Borehole~~ Location: B-1

County: WAUKESHA

SW 1/4 of SE 1/4 of Sec. 35 ; T. 7 N. R. 19 [E] [W]

(If applicable) RELATIVE STATION 5000 N ~~Gov't Lot~~ 5000 E ~~Grid Number~~

Grid Location: 5064.73 ft. [N] [S]., 4983.81 ft. [E] [W]

Civil Town Name: WAUKESHA

Street Address of Well: 1045 PERKINS AVENUE

City, Village: WAUKESHA

(2) FACILITY NAME

Original ~~Well~~ Owner (If Known): ALLOY PRODUCTS CORP

Present Well Owner: SAME

Street or Route: 1045 PERKINS AVENUE

City, State, Zip Code: WAUKESHA, WI 53187

Facility Well No. and/or Name (If Applicable): B-1

WI Unique Well No.: ____

Reason For Abandonment: USED AS TEST BORING

Date of Abandonment: 7/19/93

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original ~~Well/Drillhole~~/Borehole Construction Completed On

(Date) 7/19/93

- [ ] Monitoring Well
- [ ] Water Well
- [ ] Drillhole
- [x] Borehole

Construction Report Available? [x] Yes [ ] No

Construction Type:
- [x] Drilled
- [ ] Driven (Sandpoint)
- [ ] Dug
- [ ] Other (Specify)

Formation Type:
- [x] Unconsolidated Formation
- [ ] Bedrock

Total Well Depth (ft.) 10 (From groundsurface)

Casing Diameter (ins.) NA

Casing Depth (ft.) NA

Was Well Annular Space Grouted? [ ] Yes [x] No [ ] Unknown

If Yes, To What Depth? NA Feet

(4) Depth to Water (Feet) ≈ 8.5'

Pump & Piping Removed?	[ ] Yes	[ ] No	[x] Not Applicable
Liner(s) Removed?	[ ] Yes	[ ] No	[x] Not Applicable
Screen Removed?	[ ] Yes	[ ] No	[x] Not Applicable
Casing Left in Place?	[ ] Yes	[x] No	

If No, Explain: NO CASING INSTALLED

Was Casing Cut Off Below Surface?	[ ] Yes	[ ] No	NA
Did Sealing Material Rise to Surface?	[x] Yes	[ ] No	
Did Material Settle After 24 Hours?	[ ] Yes	[x] No	
If Yes, Was Hole Retopped?	[ ] Yes	[ ] No	NA

(5) Required Method of Placing Sealing Material
- [x] ~~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
- [x] Granular Bentonite
- [ ] Bentonite - Cement Grout

(7)

Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
CONCRETE	Surface	0.5	NA	
CHIPPED BENTONITE	0.5	10.0	2 SACKS	

(8) Comments:

(9) Name of Person or Firm Doing Sealing Work: TED HUBBES

Signature of Person Doing Work: Ted Hubbes/TMF

Date Signed: 7/18/94

Street or Route: 2831 N. GRANDVIEW BLVD

Telephone Number: (414) 549-6898

City, State, Zip Code: PEWAUKEE, WI 53072

(10) FOR DNR OR COUNTY USE ONLY

Date Received/Inspected

District/County

Reviewer/Inspector

Follow-up Necessary

DNR/COUNTY