July 20, 2017 Reference No. 030409

Ms. Leslie Blake
Remedial Project Manager
United States Environmental
Protection Agency
Region 5
Ralph Metcalfe Federal Building
77 West Jackson
Chicago, Illinois 60604-3590

Dear Leslie:

Re: **Request and Notification of Well Abandonment**
Rexnord
2400 Curtiss Street
Downers Grove, Illinois 60515

GHD is notifying you that Rexnord Industries, LLC (Rexnord) is planning to abandon monitoring wells on the Rexnord property located at 2400 Curtiss Street in Downers Grove, IL as part of future development on the property. Some of these wells were installed by Rexnord. For those wells, Rexnord is providing notification of abandonment. The remaining wells were installed by USEPA contractors. For those wells, Rexnord is seeking permission to allow Rexnord to abandon the wells.

A list of the wells requested for abandonment is provided in Table 1 along with the party that installed the well. The locations of the wells are provided in Figure 1. Copies of the well boring logs are provided in Attachment A. The tentative schedule for abandonment is the week of September 11, 2017.

All wells will be abandoned in accordance with Illinois Administrative Code[1] by a licensed well driller.

If you have any questions or would like to discuss things further, please do not hesitate to contact us at (651) 639-0913.

Sincerely,

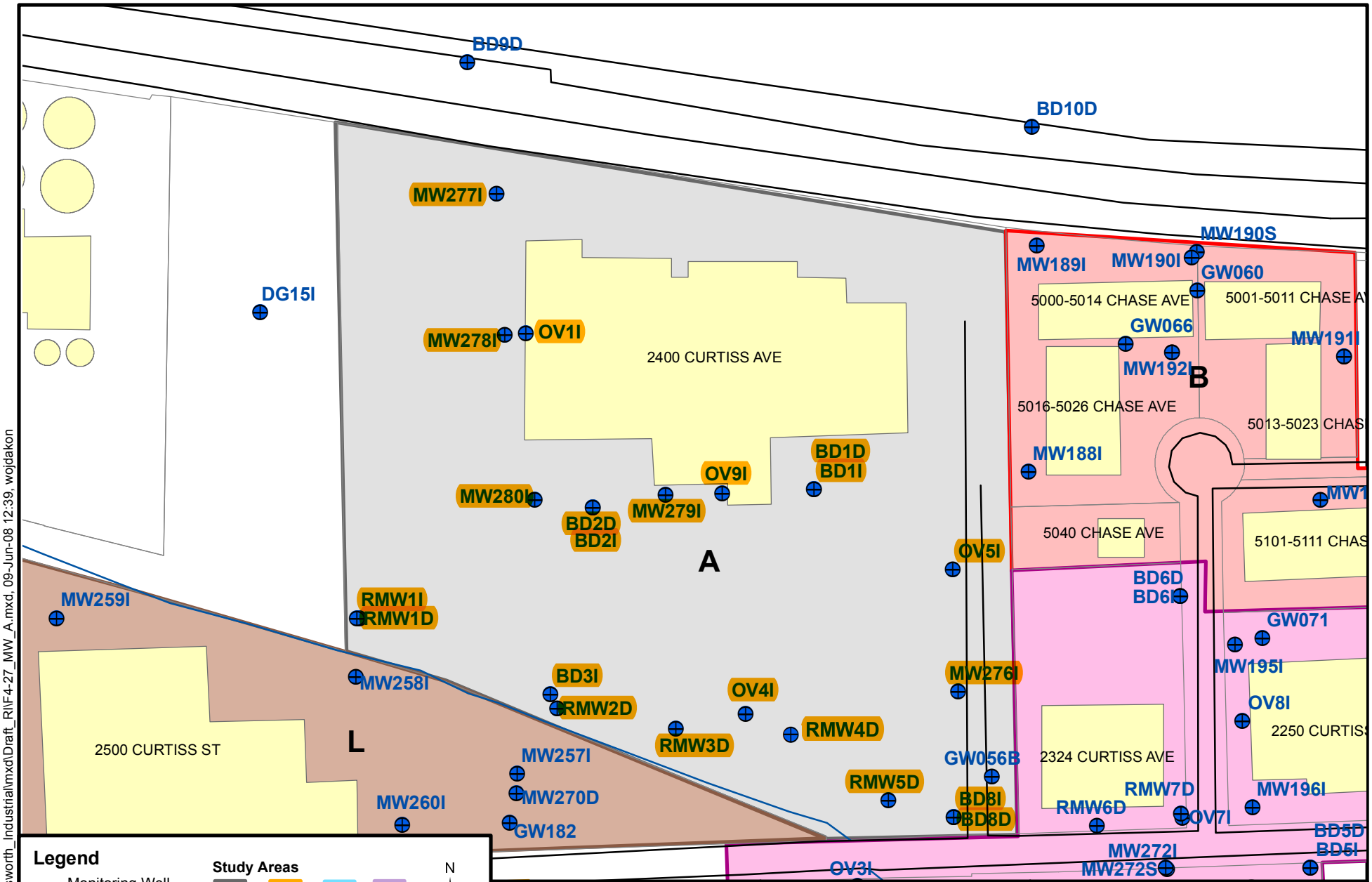
GHD

Ron Frehner, P.E.

SR/md/1

Encl.

[1] 75 Ill. Admin. Code, pt. 920.120



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Prepared For:
U.S. EPA REGION V
Contract: EP-S05-06-04
TDD: S05-0008-0710-019
DCN: 320-2A-ABHE

Prepared By:
WESTON SOLUTIONS, INC.
750 East Bunker Court
Vernon Hills, IL 60061

Figure 4-27
Monitoring Well Location Map
Study Area A
Ellsworth Industrial Park
Downers Grove, IL

Table 1

Well Construction Summary
Rexnord
2400 Curtiss Street
Downers Grove, Illinois

Well	Installed by	Installation Date MM/DD/YY	GPS Coordinates[1] X (deg.)	Y (deg.)	TOC Elevation (ft. AMSL)	Ground Elevation (ft. AMSL)	Well Depth (ft. bgs)	Casing Diameter (in.)	Casing Material	Screened Interval (ft. bgs)	Formation at Bottom of Well	Groundwater Classification
Drift Wells												
BD-1 I	USEPA	05/17/02	1063447.452	1867763.926	696.56	-	37	-	SS	27 - 37	Overburden	Alluvial Aquifer
BD-2 I	USEPA	05/20/02	1063078.441	1867733.508	701.78	-	40	-	SS	30 - 40	Overburden	Alluvial Aquifer
BD-3 I	USEPA	05/09/02	1063007.386	1867421.861	688.00	-	38	-	SS	30 - 35	Overburden	Alluvial Aquifer
BD-8 I	USEPA	05/21/02	1063680.135	1867216.344	689.86	-	45	-	SS	35 - 45	Overburden	Alluvial Aquifer
OV-1 I	USEPA	05/29/02	1062966.705	1868024.459	702.56	-	54	-	SS	48 - 53	Overburden	Alluvial Aquifer
OV-4 I	USEPA	06/03/02	1063333.488	1867389.127	691.04	-	58	-	SS	48 - 58	Overburden	Alluvial Aquifer
OV-5 I	USEPA	05/23/02	1063678.888	1867629.530	694.56	-	50	-	SS	43 - 48	Overburden	Alluvial Aquifer
OV-9 I	USEPA	05/30/02	1063294.143	1867757.515	703.04	-	42	-	SS	32 - 42	Overburden	Alluvial Aquifer
RMW-1 I	Rexnord	01/11/06	1062683.980	1867549.040	691.82	689.11	45	2	SS	39 - 44	Overburden	-
MW276 I	USEPA	01/31/07	1063687.868	1867426.456	695.03	-	45	2	SS	35 - 45	Overburden	Alluvial Aquifer
MW277 I	USEPA	01/31/07	-	-	-	-	50	2	SS	40 - 50	Overburden	Alluvial Aquifer
MW278 I	USEPA	02/01/07	1062930.978	1868021.180	701.73	-	45	2	SS	33 - 43	Overburden	Alluvial Aquifer
MW279 I	USEPA	02/02/07	1063199.762	1867755.096	703.08	-	40	2	SS	30 - 40	Overburden	Alluvial Aquifer
MW280 I	USEPA	02/01/07	1062981.607	1867747.044	701.42	-	45	2	SS	35 - 45	Overburden	Alluvial Aquifer
Bedrock Wells												
BD-1 D	USEPA	05/17/02	1063447.452	1867763.926	696.25	-	70	-	SS	60 - 70	Shallow Bedrock	Bedrock Aquifer
BD-2 D	USEPA	05/20/02	1063078.441	1867732.508	701.78	-	80	-	SS	67 - 77	Shallow Bedrock	Bedrock Aquifer
BD-8 D	USEPA	05/21/02	1063680.135	1867216.344	690.00	-	80	-	SS	68.5 - 78.5	Shallow Bedrock	Bedrock Aquifer
RMW-1 D	Rexnord	01/11/06	1062688.810	1867548.610	691.43	689.34	68	2	SS	62 - 67	Shallow Bedrock	Bedrock Aquifer
RMW-2 D	Rexnord	01/12/06	1063037.970	1857440.030	688.63	686.20	61	2	SS	55 - 60	Shallow Bedrock	Bedrock Aquifer
RMW-3 D	Rexnord	01/13/06	1063217.110	1867363.810	688.49	686.80	70	2	SS	64 - 69	Shallow Bedrock	Bedrock Aquifer
RMW-4 D	Rexnord	01/17/06	-	-	690.76	691.20	80	2	SS	75 - 80	Shallow Bedrock	Bedrock Aquifer
RMW-5 D	Rexnord	01/19/06	1063571.300	1867244.840	690.54	688.01	75	2	SS	70 - 75	Shallow Bedrock	Bedrock Aquifer

Notes

-	Information not available
1	X and Y Coordinate System = Universal Trans Mercator (UTM) North American Datum (NAD) 1983, Zone 16N
AMSL	Above Mean Sea Level
bgs	Below Ground Surface
TOC	Top of Casing

Attachment A
Boring Logs

LOG OF BORING BD-1D

Ellsworth Industrial Park
Downers Grove

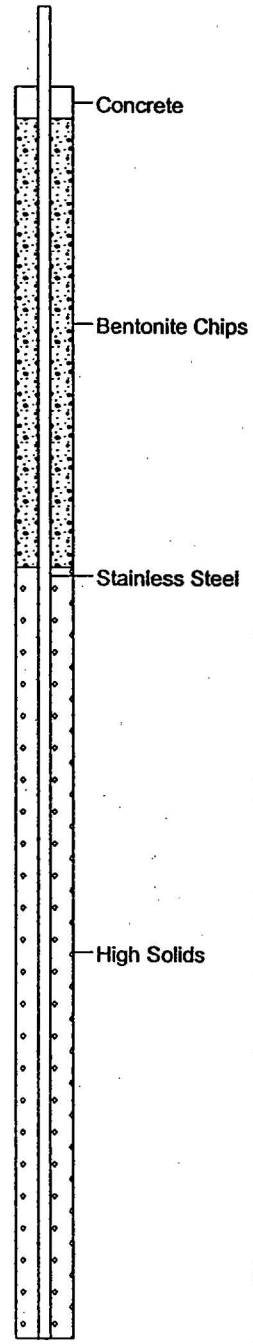
Rexnord

Start Date : 05/17/02
Finish Date : 05/17/02
Driller : Boart Longyear
Drilling Method : Rotosonic
Total Depth : 70 ft bgs

WESTON Geologist : A. Slesers

Depth in feet	Samples	recovery (ft)	blow counts (in)	GRAPHIC	USCS	DESCRIPTION	PID (ppm)
0						Aphalt-gravel subbase.	
2							
4		2			CL	CLAY, brown, trace to little sand, fine to fle san moist, slight black stain at 3', trace small to large gravel..	0/1.2
6		9/10			CL	As above, oxidized near 5 ft, little silt, gravel rich zone at 7 to 7.5 ft.	0/0
8		9/10			CL/ML	CLAYEY SILT, brown to 9', moist.	0/0.2
10		9/10			SP	SAND and GRAVEL, brown as above, dry.	0/0
12					SP	As above.	
14		9/10			SP		
16		2.5			SP	GRAVEL, SAND, little clay, wet, large gravel, fine to coarse sand. SAND, fine, brown, moist.	0/0
18		2.5			SM	SAND, fine brown, moist, little clay, grading to a sandy clay at 20 ft, some silt at 20 ft.	0/0
20							

Well: BD-1D
Elev.:



LOG OF BORING BD-1D

Ellsworth Industrial Park
Downers Grove

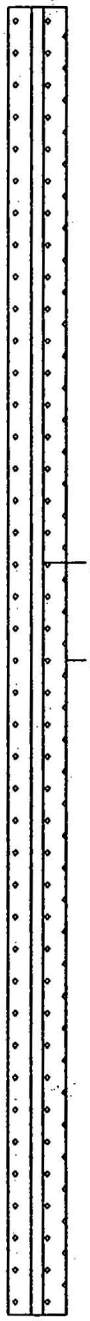
Rexnord

Start Date : 05/17/02
Finish Date : 05/17/02
Driller : Boart Longyear
Drilling Method : Rotosonic
Total Depth : 70 ft bgs

WESTON Geologist : A. Slesers

Well: BD-1D
Elev.:

Depth in feet	Samples	recovery (ft)	blow counts (in)	GRAPHIC	USCS	DESCRIPTION	PID (ppm)
20–22		2.5			SM	CLAY, silty, brown, trace fine sand, moist.	0/0
22–24		2			SP	SAND and GRAVEL, brown, moist, fine to medium sand, fine to medium gravel. As above, increasing grain size, moist.	0/0
24–26	X	2.5			SP	SAND, brown, fine to coarse, little medium grained gravel. SAND, medium grade, brown to black.	0/0.4
26–28		2.5			SP	As above to 29 ft.	0/0
28–30		2.5			SM	Sand, grey, moist, fine trace gravel, well sorted, moist. As above.	0/0
30–32	X	2			SM	As above, increased clay content, little clay, sand is wet, possibly saturated.	0/0
32–34		2.5			SM	As above, increased clay content, little clay, sand is wet, possibly saturated, soft, moist to very moist, grey clay, some fine sand.	0/1.4
34–36		2.5			SM	As above, very moist to saturated.	0/1.9
36–38							
38–40							



LOG OF BORING BD-1D

Ellsworth Industrial Park
Downers Grove

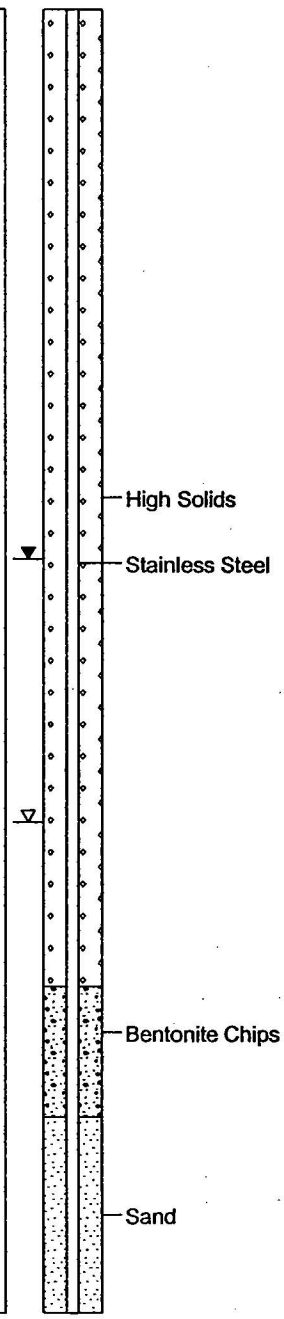
Rexnord

Start Date : 05/17/02
Finish Date : 05/17/02
Driller : Boart Longyear
Drilling Method : Rotosonic
Total Depth : 70 ft bgs

WESTON Geologist : A. Slesers

Depth in feet	Samples	recovery (ft)	blow counts (in)	GRAPHIC	USCS	DESCRIPTION	PID (ppm)
40					SM	As above to 41 ft.	
		2.5			CL	CLAY, stiff, moist, high plasticity, trace gravel, fine to medium gravel.	0/2.3
42						As above, stiff to very stiff.	
44		2.5					0/0
46		1.5				CLAY, light grey, some very fine sand to silt, little gravel, fine to coarse, stiff, moist.	0/0
48		1.5				As above.	0/0
50		1.5				As above, light grey, moist.	0/0
52						As above, some silt, wet, large gravel/cobbles, grading to tan.	
54		2					0/0
56		3.3/.83			GC	Coarse GRAVEL and CLAY, weathered zone.	
					CL	Bedrock, weathered zone, oxidized clay in zone, to 58 ft.	0/0
58		3.3/.83			DO	DOLOMITE, light grey to grey.	0/0
60							

Well: BD-1D
Elev.:



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LOG OF BORING BD-1D

Ellsworth Industrial Park
Downers Grove

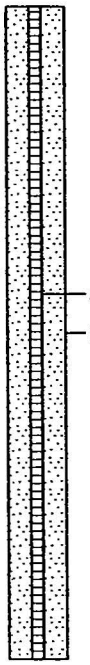
Rexnord

Start Date	: 05/17/02	WESTON Geologist	: A. Slesers
Finish Date	: 05/17/02		
Driller	: Boart Longyear		
Drilling Method	: Rotosonic		
Total Depth	: 70 ft bgs		

Depth in feet	Samples	recovery (ft)	blow counts (in)	GRAPHIC	USCS	DESCRIPTION	PID (ppm)
60		2/1			DO	As above, some oxidation staining, and solution features vugs.	
62							
64							
66						Fractured based on drillers observations, dry in layer and loss of water.	
68							
70							
72							
74							
76							
78							
80							

End of boring @ 70 ft

Well: BD-1D
Elev.:



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LOG OF BORING BD-1I

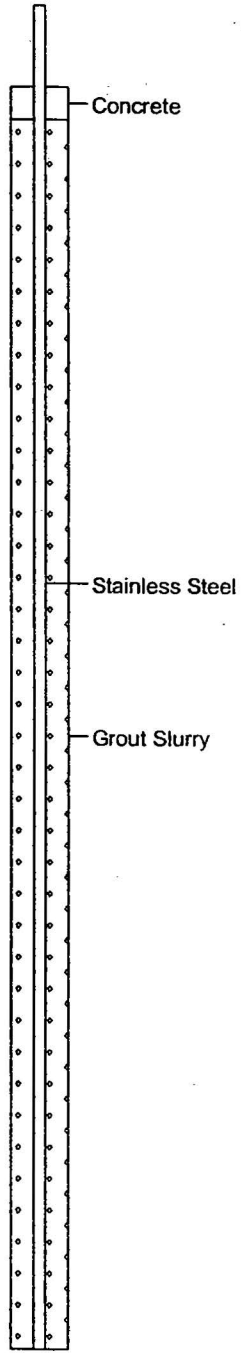
Ellsworth Industrial Park
Downers Grove

Rexnord

Start Date	: 05/17/02	WESTON Geologist	: A. Slesers
Finish Date	: 05/17/02		
Driller	: Boart Longyear		
Drilling Method	: Rotosonic		
Total Depth	: 37 ft bgs		

Depth in feet	Samples	recovery (ft)	blow counts (in)	GRAPHIC	USCS	DESCRIPTION	PID (ppm)
0					FL	Aphalt-gravel subbase.	
2							
4		2			CL	CLAY, brown, trace to little sand, fine to coarse, moist, slight black stain at 3 ft, trace gravel, small to large.	0/1.2
6		9/10				As above, oxidized near 5 ft, little silt, gravel rich zone from 7-7.5 ft.	0/0
8		9/10			CL/ML	CLAYEY SILT, brown to 9 ft, moist. SAND and GRAVEL, brown, fine to coarse sand, fine to coarse gravel, little clay, dry.	0/0.2
10		9/10			S/G	SAND and GRAVEL, brown as above, dry.	0/0
12						As above.	
14		9/10					
16		2.5				GRAVEL, SAND, little clay, wet, large gravel, fine to coarse sand. SAND, fine, brown, moist.	0/0
18	X	2.5			SM	SAND, fine brown, moist, little clay, grading to a sandy clay at 20 ft, some silt at 20 ft.	0/0
20							

Well: BD-1I
Elev.:



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LOG OF BORING BD-1I

Ellsworth Industrial Park
Downers Grove

Rexnord

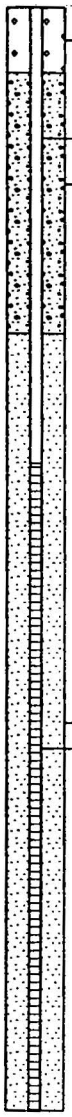
Start Date : 05/17/02
Finish Date : 05/17/02
Driller : Boart Longyear
Drilling Method : Rotosonic
Total Depth : 37 ft bgs

WESTON Geologist : A. Slesers

Well: BD-1I
Elev.:

Depth in feet	Samples	recovery (ft)	blow counts (in)	GRAPHIC	USCS	DESCRIPTION	PID (ppm)
20		2.5			SM	CLAY, silty, brown, trace fine sand, moist. SAND and GRAVEL, brown, moist, fine to medium sand, fine to coarse gravel.	0/0
22					SP	As above, increasing gravel size, moist.	
24		2					0/0
26		2.5				SAND, brown, fine to coarse, little medium grained gravel. Sand, medium grained, brown to black. As above to 29 ft.	0/0.4
28		2.5					0/0
30		2.5			SM	Sand, grey, moist, fine trace gravel, well sorted, moist. As above.	0/0
32							
34		2				As above, increased clay content, little clay, sand is wet, possibly saturated.	0/0
36						As above, increased clay content, little clay, sand is wet, possibly saturated, soft, moist, to very moist, grey clay, some fine sand.	
38							
40							

End of boring @ 37 ft



LOG OF BORING BD-2D

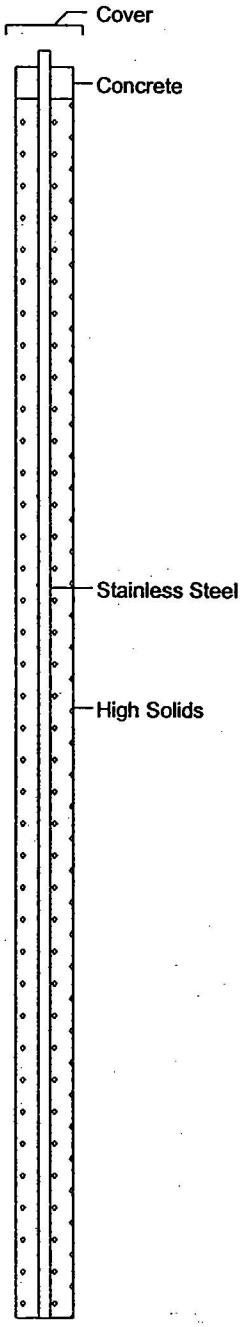
Ellsworth Industrial Park
Downers Grove

SW of Rexnord

Start Date	: 5/20/02	WESTON Geologist	: B. Schaefer
Finish Date	: 5/20/02		
Driller	: Boart Longyear		
Drilling Method	: Rotosonic		
Total Depth	: 80 ft bgs		

Well: BD-2D
Elev.:

Depth in feet	Samples	recovery (ft)	blow counts (in)	GRAPHIC	USCS	DESCRIPTION	PID/FID (ppm)
0						Asphalt.	
					CL	CLAY; dark brown, silty, with bits of gravel and a bit of sand, stiff, slightly wet.	0/0
2						As above, slightly moist, some black/tan at bottom.	0/0
4							
	X					CLAY; brown, trace grey, silty, a bit of gravel, stiff, moist.	0/0
6							
8							0/0
10						CLAY; black, silty, trace gravel and roots, very firm, moist, organic.	0/0
12						CLAY; reddish brown, some sand, some gravel, firm, moist.	
					GM	GRAVEL; tan, silty, trace sand, loose, many cobbles, dry, well graded.	0/0
14							
16						GRAVEL; silty, trace sand, many cobbles, loose, dry, 5 in dense section at bottom.	0/0
18						GRAVEL; as above, dense at top to rest loose, a bit of clay in dense section.	0/0
20							



LOG OF BORING BD-2D

Ellsworth Industrial Park
Downers Grove

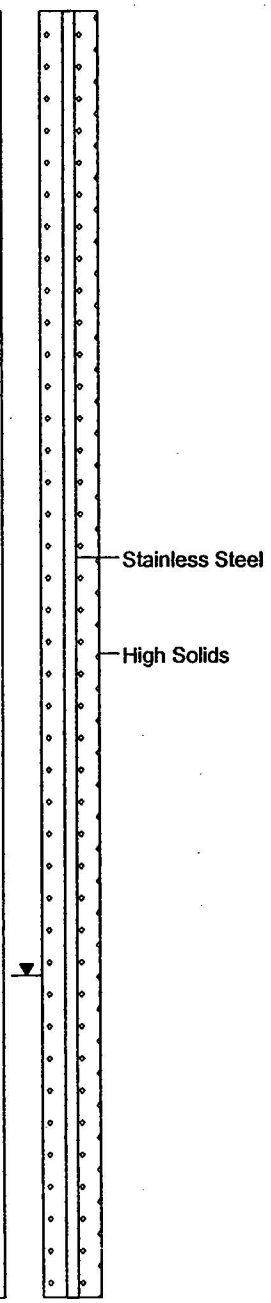
SW of Rexnord

Start Date : 5/20/02
Finish Date : 5/20/02
Driller : Boart Longyear
Drilling Method : Rotosonic
Total Depth : 80 ft bgs

WESTON Geologist : B. Schaefer

Well: BD-2D
Elev.:

Depth in feet	Samples	recovery (ft)	blow counts (in)	GRAPHIC	USCS	DESCRIPTION	PID/FID (ppm)
20–24					GM	GRAVEL; top half was reddish brown, silty, fines that were stiff, dense, dry, well graded, very large cobbles at top, bottom half was grey, silty with trace reddish brown sity clay fines.	0/0
						As above.	0/0
26–30	X				CL	CLAY; black/tan/rust brown, silty, with some gravel, firm, moist, low plasticity.	
						CLAY; dark tan, silty, with some gravel, trace sand, very firm, moist, low plasticity.	
30–36					GM	GRAVEL; brown, silty, sandy, loose, moist, well graded.	
						GRAVEL; as above in top half, bottom half had some clay, dense, very moist, loose, well graded.	0/0
36–40					SP	SAND; brown, very fine, loose, moist.	
						SAND; as above.	0/0



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LOG OF BORING BD-2D

Ellsworth Industrial Park
Downers Grove

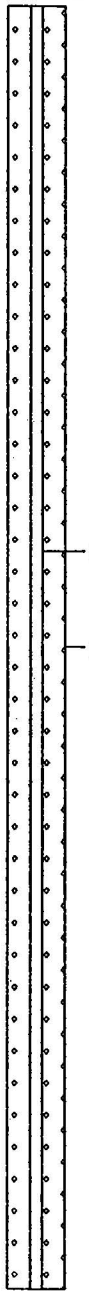
SW of Rexnord

Start Date : 5/20/02
Finish Date : 5/20/02
Driller : Boart Longyear
Drilling Method : Rotosonic
Total Depth : 80 ft bgs

WESTON Geologist : B. Schaefer

Well: BD-2D
Elev.:

Depth in feet	Samples	recovery (ft)	blow counts (in)	GRAPHIC	USCS	DESCRIPTION	PID/FID (ppm)
40					CL	CLAY; silty, with lots of fine sand, grey, soft to firm, very moist, low plasticity.	0/0
42					CL	CLAY; as above, bottom half grey silty, a bit of gravel, stiff, moist, low plasticity.	0/0
44					CL	CLAY; grey, silty, slightly firm, moist, low plasticity.	0/0
46					ML	SILT, brown, clayey, dry, low plasticity.	0/0
48					GM	GRAVEL; brownish grey, silty with some sand and clay, saturated, loose, well graded, trace large cobbles.	0/0
50					GM	GRAVEL; tannish grey, silty, sandy, some clay, loose, slightly moist, well graded, trace cobbles.	0/0
52					CL	CLAY; grey, silty, with some gravel/cobbles, trace tan at top, firm, moist, low plasticity.	0/0
54					CL/GM	Large cobbles at top, then tan grading to light tan/grey silty sandy CLAY with GRAVEL, dense, moist, some weathered bedrock.	0/0
56							
58							
60							



LOG OF BORING BD-2D

Ellsworth Industrial Park
Downers Grove

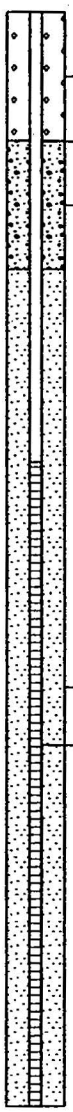
SW of Rexnord

Start Date : 5/20/02
Finish Date : 5/20/02
Driller : Boart Longyear
Drilling Method : Rotosonic
Total Depth : 80 ft bgs

WESTON Geologist : B. Schaefer

Depth in feet	Samples	recovery (ft)	blow counts (in)	GRAPHIC	USCS	DESCRIPTION	PID/FID (ppm)
60					CL/GM	Light grey with some tan, silty sandy CLAY with GRAVEL, dense, moist, some weathered bedrock.	0/0
62						Tan, with some grey, silty sandy CLAY, with some GRAVEL, dense, moist, some weathered bedrock.	0/0
64					DO	Grey/tan dolomite bedrock, some black and tan to reddish brown staining along fracture planes, many small rock pieces.	
66							
68							
70							
72							
74							
76							
78							
80						End of boring @ 80.0 ft	

Well: BD-2D
Elev.:



LOG OF BORING BD-2I

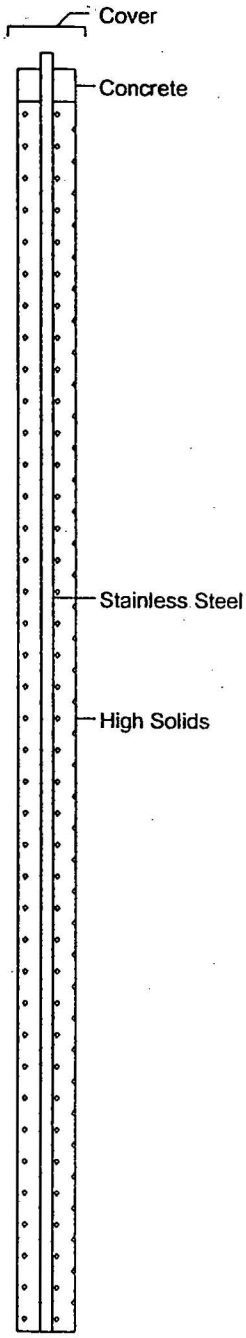
Ellsworth Industrial Park
Downers Grove

SW of Rexnord

Start Date	: 5/20/02	WESTON Geologist	: B. Schaefer
Finish Date	: 5/20/02		
Driller	: Boart Longyear		
Drilling Method	: Rotosonic		
Total Depth	: 40 ft bgs		

Well: BD-2I
Elev.:

Depth in feet	Samples	recovery (ft)	blow counts (in)	GRAPHIC	USCS	DESCRIPTION	PID/FID (ppm)
0					FL	Asphalt.	
					CL	CLAY; dark brown, silty, with bits of gravel and a bit of sand, stiff, slightly wet.	0/0
2						As above, slightly moist, some black/tan at bottom.	0/0
4							
6	X					CLAY; brown, trace grey, silty, a bit of gravel, stiff, moist.	0/0
8							0/0
10						CLAY; black, silty, trace gravel and roots, very firm, moist, organic.	0/0
12						CLAY; reddish brown, some sand, some gravel, firm, moist.	
					GM	GRAVEL; tan, silty, trace sand, loose, many cobbles, dry, well graded.	0/0
14							
16						GRAVEL; silty, trace sand, many cobbles, loose, dry, 5 in dense section at bottom.	0/0
18						GRAVEL; as above, dense at top to rest loose, a bit of clay in dense section.	0/0
20							



LOG OF BORING BD-2I

Ellsworth Industrial Park
Downers Grove

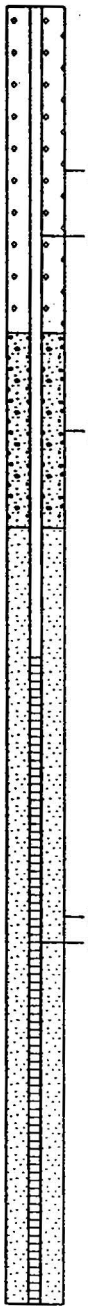
SW of Rexnord

Start Date : 5/20/02
Finish Date : 5/20/02
Driller : Boart Longyear
Drilling Method : Rotosonic
Total Depth : 40 ft bgs

WESTON Geologist : B. Schaefer

Depth in feet	Samples	recovery (ft)	blow counts (in)	GRAPHIC	USCS	DESCRIPTION	PID/FID (ppm)
20–24					GM	GRAVEL; top half was reddish brown, silty, fines that were stiff, dense, dry, well graded, very large cobbles at top, bottom half was grey, silty with trace reddish brown sity clay fines.	0/0
						As above.	0/0
24–30					CL	CLAY; black/tan/rust brown, silty, with some gravel, firm, moist, low plasticity.	
						CLAY; dark tan, silty, with some gravel, trace sand, very firm, moist, low plasticity.	
30–36					GM	GRAVEL; brown, silty, sandy, loose, moist, well graded.	
						GRAVEL; as above in top half; bottom half had some clay, dense, very moist, loose, well graded.	0/0
36–40					SP	SAND; brown, very fine, loose, moist.	
						SAND; as above.	0/0
						End of boring @ 40 feet	

Well: BD-2I
Elev.:



LOG OF BORING BD-3I

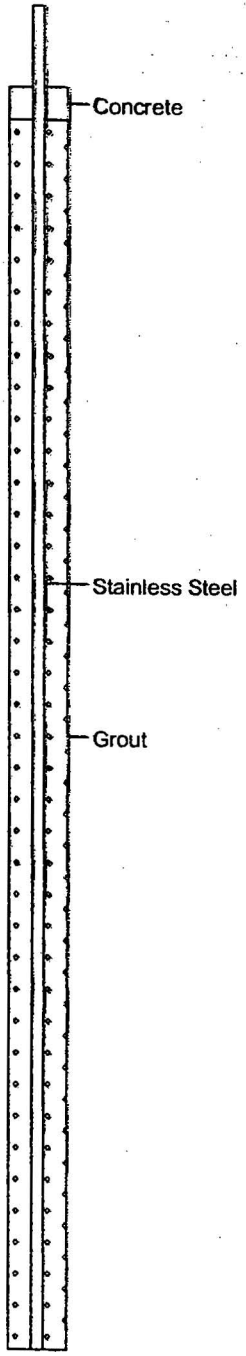
Ellsworth Industrial Park
Downers Grove

Rexnord

Start Date	: 05/09/02	Total Depth	: 38 ft bgs
Finish Date	: 05/09/02	WESTON Geologist	: B. Schaefer
Driller	: Rock and Soil		
Drilling Method	: 4¼ in ID HSA		
Sampling Method	: Split Spoon		

Depth in feet	Samples	recovery (in)	blow counts (in)	GRAPHIC	USCS	DESCRIPTION	PID (ppm)
0		10	7,8,12,8		CL	CLAY; Black silty, sandy clay topsoil grading into tan with more gravel, very stiff to stiff, very moist grading into dry, low plasticity.	0.0/0.2
2		12	5,4,16,18		CL	As above, black silty sandy clay, moist, firm.	0.1/0.2
4		6	8,6,6,8		CL	As above, black silty sandy clay grading into tan, firm, moist, low plasticity, gray cobble noted.	0.0/0.1
6		11	4,4,5,5		CL	As above, tan silty sandy clay, trace gravel, dry, firm, low plasticity.	0.0/0.1
8	X	9	4,11,5,5		SM	SILTY SAND; tan with some light gray angular gravel and a bit of clay at bottom, slightly dense, moist.	0.0/0.0
10		14	12,5,15,22		CL	CLAY; 2 in of sand at top; then gray cobble; then gray silty clay with trace gravel, stiff, dry, low plasticity.	0.0/0.0
12		5	12,34,30,18		GM	GRAVEL; light gray cobbles, possibly limestone pieces, with ground up rock fines and silty sand fines, dry.	0.0/0.0
14		11	18,20,19,10		GM	GRAVEL; gray, subrounded, tan, silty, sandy, some parts slightly dense, other parts loose, dry, well graded.	0.0/0.0
16		2	12,20,22,20		GM	GRAVEL; gray subrounded dolomite cobble with ground up rock pieces and reddish brown sandy silt, dry, loose.	0.0/0.0
18		1	27,24,26,12		SM	SILTY SAND; tan, silty, dry, soft, with some small gravel.	0.0/0.0
20							

Well: BD-3I
Elev.:



LOG OF BORING BD-3I

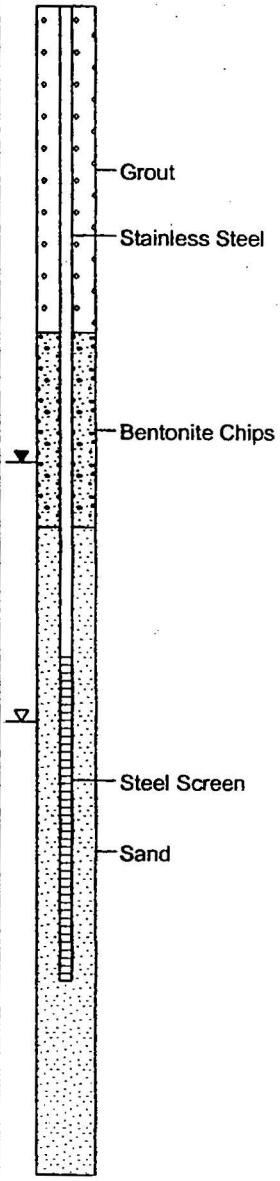
Ellsworth Industrial Park
Downers Grove

Rexnord

Start Date	: 05/09/02	Total Depth	: 38 ft bgs
Finish Date	: 05/09/02	WESTON Geologist	: B. Schaefer
Driller	: Rock and Soil		
Drilling Method	: 4¼ in ID HSA		
Sampling Method	: Split Spoon		

Well: BD-3I
Elev.:

Depth in feet	Samples	recovery (in)	blow counts (in)	GRAPHIC	USCS	DESCRIPTION	PID (ppm)
20		9	13,13,11,20			SILTY SAND; grayish tan, silty, very fine, some gravel with a few small dolomite cobbles, slightly dense.	0.0/0.0
22		15	20,29,17,15		SM	SILTY SAND; very fine with some gravel and tannish gray cobbles, dry, well graded, slightly dense.	0.0/0.0
24		9	12,13,15,17			SILTY SAND; as above, with 1 in of reddish brown silty sand at the bottom that was wet.	0.0/0.0
26		0	6,17,13,7			Poor recovery, pushed rock, tannish gray cobble.	0.0/0.0
28		15	3,6,12,26		CL	CLAY; gray, silty, with trace sand, very firm, moist, low plasticity.	0.0/0.0
30		15	12,17,25,25		SM	SILTY SAND; grayish tan, silty, some gravel, fine to coarse, dense, slightly wet. SILTY SAND; grayish tan, silty, fine to coarse, with gravel and trace clay, dense, slightly wet, well graded.	0.0/0.0
32		17	6,22,27,25		SM/ML	Tan, very fine, SAND and SILT, dense, stiff, wet at top half, bottom half was gray, very fine, soft, wet, trace gravel.	0.0/0.0
34		3	25,35,45,45		ML	SILT; tan, very fine, sandy, very soft, saturated, with some gravel, gray limestone rock cobbles at bottom.	0.0/0.0
36		7	20,20,29,23		GM	GRAVEL; about 2 in of gray very fine sand and silt, slightly firm, very moist at top, then grayish tan layered limestone rock pieces, dry.	0.0/0.0
38						End of boring @ 38.0 ft	
40							



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LOG OF BORING BD-8D

Ellsworth Industrial Park
Downers Grove

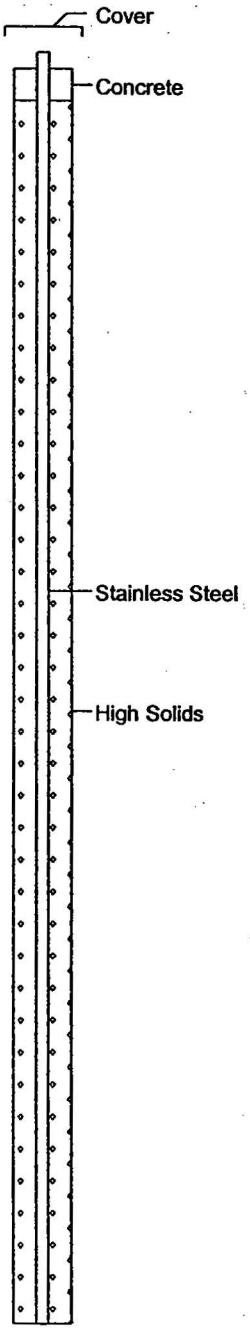
Rexnord Entrance

Start Date : 5/21/02
End Date : 5/21/02
Driller : Boart Longyear
Drilling Method : Rotosonic
Total Depth : 80 ft bgs

WESTON Geologist : B. Schaefer

Depth in feet	Samples	recovery (ft)	blow counts (in)	GRAPHIC	USCS	DESCRIPTION	PID/FID (ppm)
0		17			OL	CLAY; black, silty, trace sand and gravel, grass/roots at top, moist to very moist, low plasticity, firm.	0/0
2					CL	CLAY; tan, silty, with some gravel/cobbles, firm, moist, low plasticity.	0/0
4		14					
6	X					CLAY; tan, brown, black, silty with some sand and trace gravel, firm, moist.	0/0
8					BFR	BFR; large tan rock.	0/0
10					CL	CLAY; dark tan, silty, sandy, with a bit of gravel, moist, firm.	
						CLAY; dark tan, silty, sandy, with some gravel, moist, firm.	0/0
12						CLAY; as above.	0/0
14							
16		32				CLAY; brown, silty, sandy, with some gravel, soft, moist, loose, grey silty gravel section in the middle.	0/0
18		39			ML	SILT; dk tan, clayey, moist, slightly firm.	0/0
					SM	SAND; dk tan, v. silty, fine, loose, moist.	
					CL	CLAY; dark tan, very sandy, silty, with a bit of gravel, cobbles, slightly firm, moist.	
20							

Well: BD-8D
Elev.:



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LOG OF BORING BD-8D

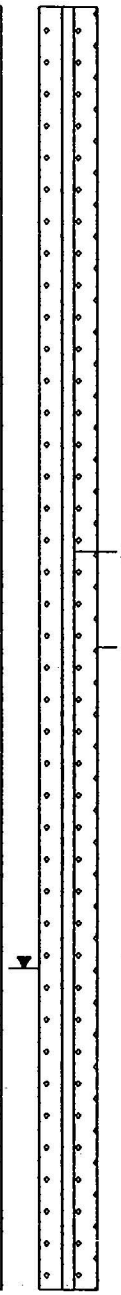
Ellsworth Industrial Park
Downers Grove

Rexnord Entrance

Start Date	: 5/21/02	WESTON Geologist	: B. Schaefer
End Date	: 5/21/02		
Driller	: Boart Longyear		
Drilling Method	: Rotosonic		
Total Depth	: 80 ft bgs		

Depth in feet	Samples	recovery (ft)	blow counts (in)	GRAPHIC	USCS	DESCRIPTION	PID/FID (ppm)
20		36			CL	CLAY; brown grading to grey, silty, with trace of gravel/cobbles, stiff, moist, bottom part was dark tan, silty, sandy, with some gravel.	0/0
22							
24		36				CLAY; top was dark tan, silty, sandy clay with some gravel, trace cobbles, firm moist, bottom was grey, silty, with a bit of gravel/pebbles, very stiff, moist.	0/0
26		27				CLAY; grey, silty, as above.	0/0
28		41				CLAY; as above with trace gravel.	0/0
30		44				CLAY; as above with a few large cobbles at bottom, a bit of brown soft silty clay in the middle with a layer of rock cobbles.	0/0
32		18				CLAY; grey, silty with a bit of gravel and a few large rock cobbled at top, as above.	0/0
34						CLAY; grey, silty, soft, saturated, degenerative in parts, large rock cobbles in middle.	
36		13			SM	SAND; grey, silty, wet, slightly loose.	0/0
38		13				SAND; as above with trace large rock cobbles.	0/0
40							

Well: BD-8D
Elev.:



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LOG OF BORING BD-8D

Ellsworth Industrial Park
Downers Grove

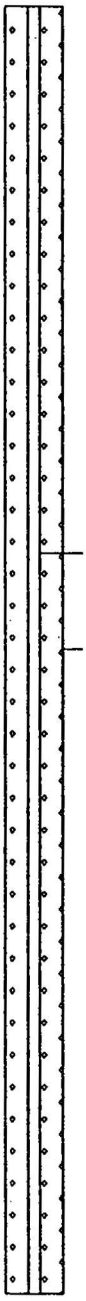
Rexnord Entrance

Start Date : 5/21/02
End Date : 5/21/02
Driller : Boart Longyear
Drilling Method : Rotosonic
Total Depth : 80 ft bgs

WESTON Geologist : B. Schaefer

Well: BD-8D
Elev.:

Depth in feet	Samples	recovery (ft)	blow counts (in)	GRAPHIC	USCS	DESCRIPTION	PID/FID (ppm)
40		23			CL/GM	Grey, silty CLAY with larger GRAVEL pieces, very firm, moist.	0/0
42					CL/SM	Brown, silty CLAY with some gravel and reddish brown, silty SAND, slightly wet.	
		12			SM	SAND; tan, very silty, fine to very fine, dense, moist.	0/0
44					ML	SILT; grey, some fine sand, moist, firm.	
					SM/GM	Tan, fine, silty SAND, dense, small GRAVEL pieces, moist to, well graded.	
46		15			CL	CLAY; grey, silty, sandy, with large cobbles at top, wet to saturated in parts, soft, slightly firm in parts.	0/0
48		11				CLAY; grey, silty, sandy, with bits of gravel, very sandy in parts, very wet to saturated, very soft.	0/0
50		20				CLAY; grey, silty, sandy, very sandy in parts, some gravel, a few large rock cobbles, firm to soft in parts, wet to saturated.	0/0
52		20				CLAY; grey, silty, sandy, large rock cobbles at top and middle of section, very soft, saturated, degenerative.	0/0
54							
56		17			GM	GRAVEL; grey, silty, sandy, a few large cobble pieces, loose, saturated, well graded.	0/0
58		33			CL	CLAY; 4 in of grey, gravelly. CLAY; grey, silty, sandy, gravelly, firm, slightly wet, well graded material.	0/0
60							



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LOG OF BORING BD-8D

Ellsworth Industrial Park
Downers Grove

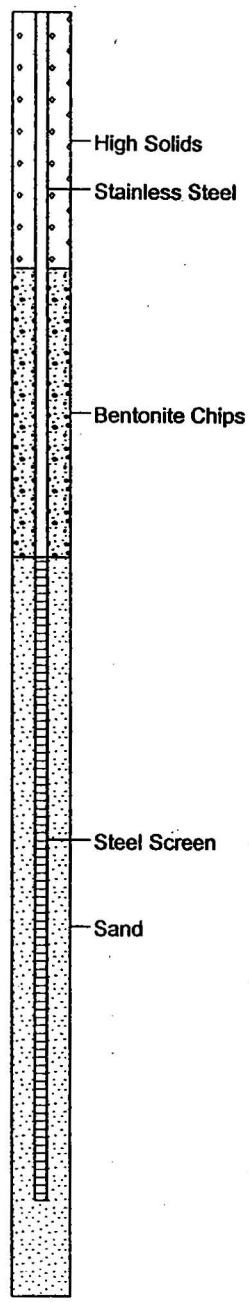
Rexnord Entrance

Start Date : 5/21/02
End Date : 5/21/02
Driller : Boart Longyear
Drilling Method : Rotosonic
Total Depth : 80 ft bgs

WESTON Geologist : B. Schaefer

Depth in feet	Samples	recovery (ft)	blow counts (in)	GRAPHIC	USCS	DESCRIPTION	PID/FID (ppm)
60		24			GM	GRAVEL; grey, silty, sandy, well graded, very large cobbles, wet, slightly loose, some weathered bedrock.	0/0
62							
64		25				GRAVEL; as above, with a section in the middle that had more clay, dense in this section, wet overall, bottom 6 in was ground up dolomite bedrock pieces, some weathered bedrock.	0/0
66					DO	Bedrock	
68							
70							
72							
74							
76							
78							
80						End of boring @ 80.0 ft	

Well: BD-8D
Elev.:



LOG OF BORING BD-8I

Ellsworth Industrial Park
Downers Grove

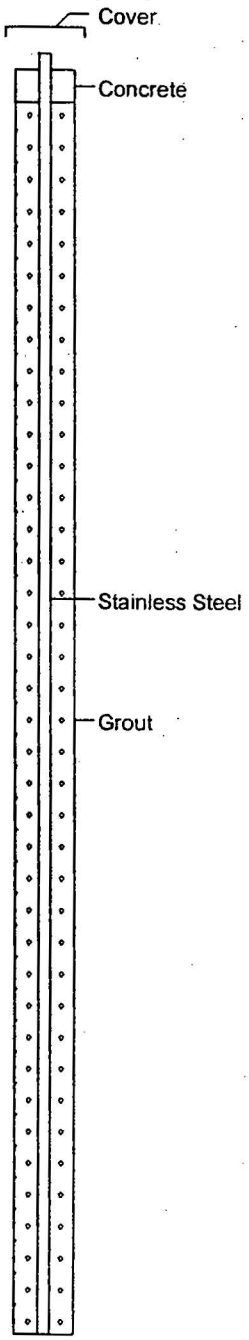
Rexnard Entrance

Start Date : 5/21/02
End Date : 5/21/02
Driller : Boart Longyear
Drilling Method : Rotosonic
Total Depth : 45 ft bgs

WESTON Geologist : B. Schaefer

Depth in feet	Samples	recovery (in)	blow counts (in)	GRAPHIC	USCS	DESCRIPTION	PID/FID (ppm)
0		17			OL	CLAY; black, silty, trace sand and gravel, grass/roots at top, moist to very moist, low plasticity, firm.	0/0
2					CL	CLAY; tan, silty, with some gravel/cobbles, firm, moist, low plasticity.	0/0
4		14					
6	X					CLAY; tan, brown, black, silty with some sand and trace gravel, firm, moist.	0/0
8					BFR	BFR; large tan rock.	
10					CL	CLAY; dark tan, silty, sandy, with a bit of gravel, moist, firm.	0/0
						CLAY; dark tan, silty, sandy, with some gravel, moist, firm.	0/0
12						CLAY; as above.	0/0
14							
16		32				CLAY; brown, silty, sandy, with some gravel, soft, moist, loose, grey silty gravel section in the middle.	0/0
18		39			ML	SILT; dk tan, clayey, v. moist, slightly firm.	0/0
					SM	SAND; dk tan, v. silty, fine, sl loose, moist.	
					CL	CLAY; dark tan, very sandy, silty, with a bit of gravel, cobbles, slightly firm, moist.	
20							

Well: BD-8I
Elev.:



LOG OF BORING BD-8I

Ellsworth Industrial Park
Downers Grove

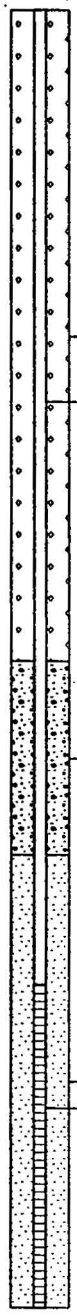
Rexnard Entrance

Start Date : 5/21/02
End Date : 5/21/02
Driller : Boart Longyear
Drilling Method : Rotosonic
Total Depth : 45 ft bgs

WESTON Geologist : B. Schaefer

Well: BD-8I
Elev.:

Depth in feet	Samples	recovery (in)	blow counts (in)	GRAPHIC	USCS	DESCRIPTION	PID/FID (ppm)
20		36			CL	CLAY; brown grading to grey, silty, with trace of gravel/cobbles, stiff, moist, bottom part was dark tan, silty, sandy, with some gravel.	0/0
22		36			CL	CLAY; top was dark tan, silty, sandy clay with some gravel, trace cobbles, firm moist, bottom was grey, silty, with a bit of gravel/pebbles, very stiff, moist.	0/0
24		27			CL	CLAY; grey, silty, as above.	0/0
26		41			CL	CLAY; as above with trace gravel.	0/0
28		44			CL	CLAY; as above with a few large cobbles at bottom, a bit of brown soft silty clay in the middle with a layer of rock cobbles.	0/0
30		18			CL	CLAY; grey, silty with a bit of gravel and a few large rock cobbles at top, as above.	0/0
32		13			CL	CLAY; grey, silty, soft, saturated, degenerative in parts, large rock cobbles in middle.	0/0
34		13			SM	SAND; grey, silty, wet, slightly loose.	0/0
36					SM	SAND; as above with trace large rock cobbles.	0/0
38							
40							



LOG OF BORING BD-8I

Ellsworth Industrial Park
Downers Grove

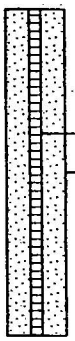
Rexnard Entrance

Start Date : 5/21/02
End Date : 5/21/02
Driller : Boart Longyear
Drilling Method : Rotosonic
Total Depth : 45 ft bgs

WESTON Geologist : B. Schaefer

Well: BD-8I
Elev.:

Depth in feet	Samples	recovery (in)	blow counts (in)	GRAPHIC	USCS	DESCRIPTION	PID/FID (ppm)
40		23			CL/GM	Grey, silty CLAY with larger GRAVEL pieces, very firm, moist.	0/0
42					CL/SM	Brown, silty CLAY with some gravel and reddish brown, silty SAND, slightly wet.	
		12			SM	SAND; tan, very silty, fine to very fine, dense, moist.	0/0
44					ML	SILT; grey, some fine sand, moist, firm.	
					SM/GM	Tan, fine, silty SAND, slightly dense, small to large GRAVEL pieces, loose, moist.	



End of boring @ 45 feet

46
48
50
52
54
56
58
60

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LOG OF BORING EIP-SS276 I

U.S. EPA Region V Remedial Action Contract
Work Assignment 251-RICO-B52A

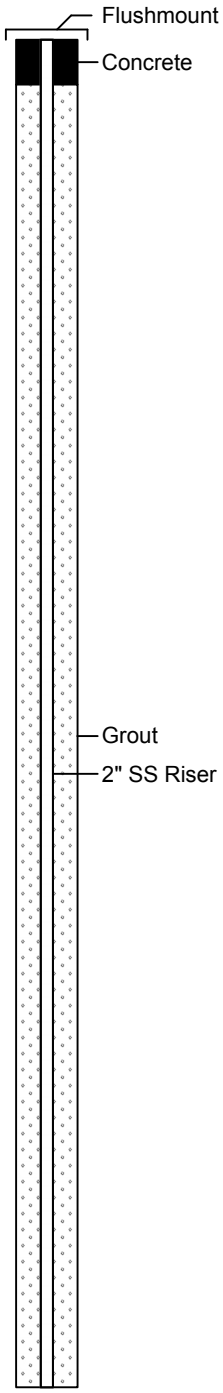
Ellsworth Industrial Park
Downers Grove, Du Page County, Illinois

Start Date	: 1-31-07	Total Depth	: 45' bgs
Finish Date	: 1-31-07	Location	: Rexnord
Driller	: Transhield		: 2400 Curtiss
Drilling Method	: Geoprobe	WESTON Geologist	: M. Castillo
Sampling Method	: Grab		

Samples
- Investigative Sample Collected
- Investigative and Confirmation Sample Collected
- Investigative with Geotech (Grain Size, CEC, ORP, TOC)

DEPTH (ft)	RECOVERY (in)	USCS	DESCRIPTION	SAMPLES	PID (ppm)	REMARKS
0		TS	TOPSOIL, brown, stiff, dry, trace organics.			
			CLAYEY SAND, reddish tan, stiff, loose, dry.		0.0	Soil sample and duplicate collected at 0902. EIP-SS276-003-1 and EIP-SS276-003-2.
5	34/60		as above, some pebble layers throughout.		3.4	Soil sample collected at 0908. EIP-SS276-005-1.
					2.2	
10	30/60	SC	as above, trace pebble layers.		1.1	Soil sample collected at 0912. EIP-SS276-010-1.
					0.0	
15	41/60				0.0	
					0.0	Soil sample collected at 0920. EIP-SS276-018-1.
			SAND & GRAVEL, well graded, white, loose, dry.			
20	44/60				0.7	Soil sample collected at 0943. EIP-SS276-020-1.
					0.5	
		SW				
25	48/60				0.5	Soil sample collected at 1015. EIP-SS276-025-1.
					0.1	
		CL	CLAY, gray, stiff, dry, some sand and gravel.			
30	38/60				0.0	

MW-276 I



LOG OF BORING EIP-SS276 I

U.S. EPA Region V Remedial Action Contract
Work Assignment 251-RICO-B52A

Ellsworth Industrial Park
Downers Grove, Du Page County, Illinois

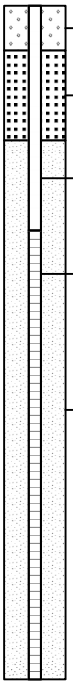
Start Date	: 1-31-07	Total Depth	: 45' bgs
Finish Date	: 1-31-07	Location	: Rexnord
Driller	: Transhield		: 2400 Curtiss
Drilling Method	: Geoprobe	WESTON Geologist	: M. Castillo
Sampling Method	: Grab		

Samples
- Investigative Sample Collected
- Investigative and Confirmation Sample Collected
- Investigative with Geotech (Grain Size, CEC, ORP, TOC)

DEPTH (ft)	RECOVERY (in)	GRAPHIC	USCS	DESCRIPTION	SAMPLES	PID (ppm)	REMARKS
30			CL	CLAY, gray, stiff, dry, some sand and gravel.			
			SP	SAND, reddish-brown, medium grained, loose, dry, increasing clay content with depth, slightly moist around 35'.		0.2	Soil sample collected at 1030. EIP-SS276-033-1.
35	60/60		SC	CLAYEY SAND, gray, soft, moist.		0.7	
			CL	CLAY TILL, gray, stiff, dry, medium plasticity, some sand, trace pebbles.		0.0	Soil sample collected at 1115. EIP-SS276-038-1
40	60/60		SC	CLAYEY SAND, gray, fine grained, wet.		0.4	
			CL	CLAY TILL, gray, stiff, dry, medium plasticity, some sand, trace pebbles.		0.1	Soil sample collected at 1150. EIP-SS276-043-1.
45	60/60					0.2	
50							
55							
60							

END OF BORING AT 45'
Monitoring Well Developed 2/9/07

MW-276 I



LOG OF BORING EIP-SS277 I

U.S. EPA Region V Remedial Action Contract
Work Assignment 251-RICO-B52A

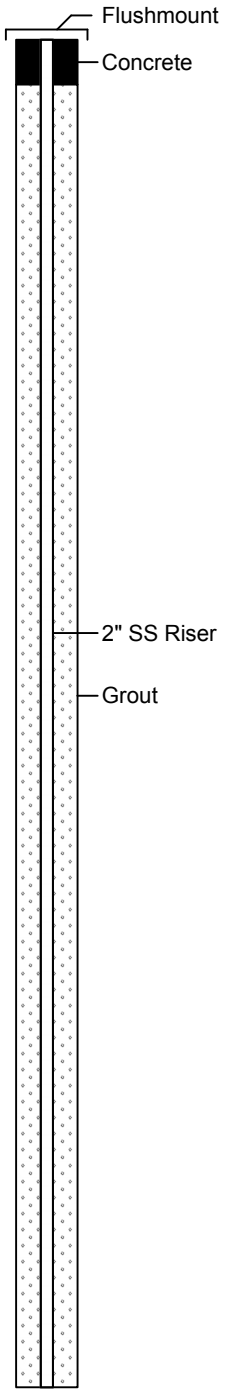
Ellsworth Industrial Park
Downers Grove, Du Page County, Illinois

Start Date	: 1-31-07	Total Depth	: 50' bgs
Finish Date	: 1-31-07	Location	: Rexnord
Driller	: Transhield		: 2400 Curtiss
Drilling Method	: Geoprobe	WESTON Geologist	: M. Castillo
Sampling Method	: Grab		

Samples
- Investigative Sample Collected
- Investigative and Confirmation Sample Collected
- Investigative with Geotech (Grain Size, CEC, ORP, TOC)

DEPTH (ft)	RECOVERY (in)	GRAPHIC	USCS	DESCRIPTION	SAMPLES	PID (ppm)	REMARKS
0			TS	TOPSOIL, black, dry, trace organics.			
			CL	SILTY CLAY, brown, stiff, dry, high plasticity, trace pebbles.		0.0	Soil sample collected at 1305. EIP-SS277-003-1.
5	30/60					0.0	
						0.0	Soil sample collected at 1310. EIP-SS277-008-1.
				as above, gray.			
10	60/60					0.0	
						0.0	Soil sample collected at 1315. EIP-SS277-013-1.
			SW	SAND & GRAVEL, white, loose, dry.			
			SC	CLAYEY SAND, brown.		0.0	
15	60/60		GW	GRAVEL, brown, loose, saturated.			
			CL	CLAY, gray, stiff, dry, high plasticity, trace pebbles.			Geotech collected from 16' to 20'.
						0.0	Soil sample collected at 1335. EIP-SS277-018-1.
20	60/60			SLOUGH from 20' to 21'.		0.0	
						0.0	Soil sample and duplicate collected at 1355. EIP-SS277-023-1 and EIP-SS277-23-2.
25	60/60					0.0	
						0.0	Soil sample collected at 1415. EIP-SS277-028-1.
			SP	SAND, reddish brown, loose, moist, trace pebbles, water from above.			
30	25/60					0.0	

MW-277 I



LOG OF BORING EIP-SS277 I

U.S. EPA Region V Remedial Action Contract
Work Assignment 251-RICO-B52A

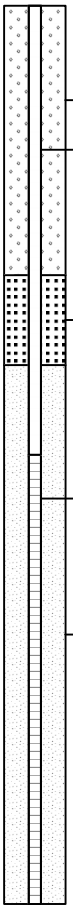
Ellsworth Industrial Park
Downers Grove, Du Page County, Illinois

Start Date	: 1-31-07	Total Depth	: 50' bgs
Finish Date	: 1-31-07	Location	: Rexnord
Driller	: Transhield		: 2400 Curtiss
Drilling Method	: Geoprobe	WESTON Geologist	: M. Castillo
Sampling Method	: Grab		

Samples
- Investigative Sample Collected
- Investigative and Confirmation Sample Collected
- Investigative with Geotech (Grain Size, CEC, ORP, TOC)

DEPTH (ft)	RECOVERY (in)	GRAPHIC	USCS	DESCRIPTION	SAMPLES	PID (ppm)	REMARKS
30				CLAYEY SAND, gray, poorly graded, fine grained, stiff, moist to wet.			
						0.0	Soil sample collected at 1450. EIP-SS277-033-1.
35	60/60		SC			0.0	
						0.0	Soil sample collected at 1500. EIP-SS277-038-1.
40	60/60					0.0	Soil sample collected at 1520. EIP-SS277-040-1.
						0.0	
45	60/60		SW	SAND, tan, well graded, loose, saturated.			
50	60/60		CL	CLAY TILL, gray, soft, moist.			
55				END OF BORING AT 50'. Monitoring Well Developed 2/9/07			
60							

MW-277 I



LOG OF BORING EIP-SS278 I

U.S. EPA Region V Remedial Action Contract
Work Assignment 251-RICO-B52A

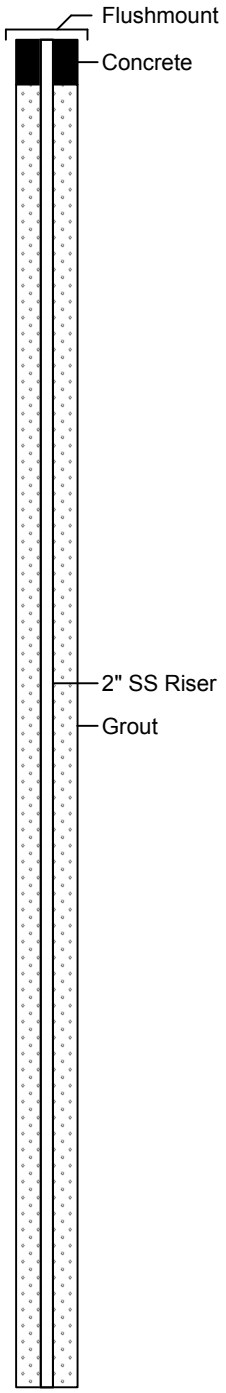
Ellsworth Industrial Park
Downers Grove, Du Page County, Illinois

Start Date	: 2-1-07	Total Depth	: 45' bgs
Finish Date	: 2-1-07	Location	: Rexnord
Driller	: Transhield		: 2400 Curtiss
Drilling Method	: Geoprobe	WESTON Geologist	: M. Castillo
Sampling Method	: Grab		

Samples
- Investigative Sample Collected
- Investigative and Confirmation Sample Collected
- Investigative with Geotech (Grain Size, CEC, ORP, TOC)

DEPTH (ft)	RECOVERY (in)	GRAPHIC	USCS	DESCRIPTION	SAMPLES	PID (ppm)	REMARKS
0			TS	TOPSOIL, dark brown, stiff, dry, high plasticity, trace organics/pebbles.			Soil sample and duplicate collected at 0845. EIP-SS278-000-1 and EIP-SS278-000-2. Geotech collected from 0' to 5' at 0902.
			CL	SILTY CLAY, dark olive, stiff, dry, high plasticity, trace pebbles.		0.8	
5	60/60					0.2	Soil sample collected at 0859. EIP-SS278-005-1.
				as above, tan.		1.6	
10	60/60					1.3	Soil sample collected at 0905. EIP-SS278-010-1.
				as above, soft and moist layer from 13' to 14'.		1.7	
15	60/60					1.4	Soil sample collected at 0920. EIP-SS278-015-1.
			SW	SAND & GRAVEL, brown, well graded, loose, dry. as above, sand layer near 16', slightly moist.		2.7	
20	59/60					2.0	Soil sample collected at 0925. EIP-SS278-020-1.
						3.1	
25	58/60					2.6	Soil sample collected at 0935. EIP-SS278-025-1.
						3.2	
30	40/60					1.4	

MW-278 I



LOG OF BORING EIP-SS278 I

U.S. EPA Region V Remedial Action Contract
Work Assignment 251-RICO-B52A

Ellsworth Industrial Park
Downers Grove, Du Page County, Illinois

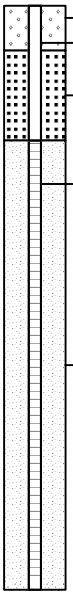
Start Date	: 2-1-07	Total Depth	: 45' bgs
Finish Date	: 2-1-07	Location	: Rexnord
Driller	: Transhield		: 2400 Curtiss
Drilling Method	: Geoprobe	WESTON Geologist	: M. Castillo
Sampling Method	: Grab		

Samples
- Investigative Sample Collected
- Investigative and Confirmation Sample Collected
- Investigative with Geotech (Grain Size, CEC, ORP, TOC)

DEPTH (ft)	RECOVERY (in)	GRAPHIC	USCS	DESCRIPTION	SAMPLES	PID (ppm)	REMARKS
30			SW	SAND & GRAVEL, brown, well graded, loose, dry, some silt.		2.6	Soil sample collected at 0950. EIP-SS278-030-1.
35	60/60			SAND, brown, loose, wet.		2.0	Soil sample collected at 1010. EIP-SS278-035-1
			CL	CLAY, gray, stiff, dry, high plasticity, trace pebbles.		2.3	
40	60/60			as above, sand layer, moist from 40' to 41'.		2.0	
						1.3	Soil sample collected at 1045. EIP-SS278-043-1.
45	60/60					2.0	
50							
55							
60							

END OF BORING AT 45'.
Monitoring Well Developed 2/9/07

MW-278 I



LOG OF BORING EIP-SS279 I

U.S. EPA Region V Remedial Action Contract
Work Assignment 251-RICO-B52A

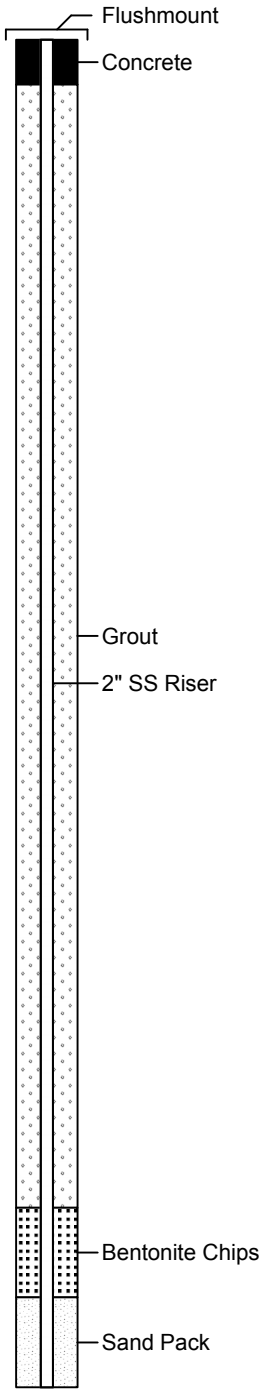
Ellsworth Industrial Park
Downers Grove, Du Page County, Illinois

Start Date	: 2-2-07	Total Depth	: 40' bgs
Finish Date	: 2-2-07	Location	: Rexnord
Driller	: Transhield		: 2400 Curtiss
Drilling Method	: Geoprobe	WESTON Geologist	: M. Castillo
Sampling Method	: Grab		

Samples
- Investigative Sample Collected
- Investigative and Confirmation Sample Collected
- Investigative with Geotech (Grain Size, CEC, ORP, TOC)

DEPTH (ft)	RECOVERY (in)	GRAPHIC	USCS	DESCRIPTION	SAMPLES	PID (ppm)	REMARKS
0			TS	TOPSOIL, black, soft, dry, trace pebbles.			
				CLAYEY SILT, brown, medium consistency, dry, high plasticity, trace pebbles.		0.0	Soil sample collected at 0740. EIP-SS279-003-1.
5	50/60					0.0	
						0.0	Soil sample collected at 0745. EIP-SS279-008-001.
10	55/60					0.0	
				as above, gravel layer from 12.5' to 13'. SILT, black, soft, slightly moist, high plasticity.		0.0	Soil sample collected at 0750. EIP-SS279-013-1.
15	40/60		ML	CLAYEY SILT, gray and tan mottling, medium consistency, dry, high plasticity, trace pebbles.		0.0	
						0.0	Soil sample collected at 0755. EIP-SS279-018-1.
20	60/60					0.0	
				CLAYEY SILT with gravel, tan, soft, dry, high plasticity.		0.0	Soil sample collected at 0805. EIP-SS279-023-1.
25	40/60					0.0	
						0.0	Soil sample and duplicate collected at 0815. EIP-SS279-028-1 and EIP-SS279-028-2.
30	60/60					0.0	

MW-279 I



LOG OF BORING EIP-SS279 I

U.S. EPA Region V Remedial Action Contract
Work Assignment 251-RICO-B52A

Ellsworth Industrial Park
Downers Grove, Du Page County, Illinois

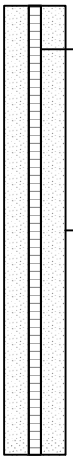
Start Date	: 2-2-07	Total Depth	: 40' bgs
Finish Date	: 2-2-07	Location	: Rexnord
Driller	: Transhield		: 2400 Curtiss
Drilling Method	: Geoprobe	WESTON Geologist	: M. Castillo
Sampling Method	: Grab		

Samples
- Investigative Sample Collected
- Investigative and Confirmation Sample Collected
- Investigative with Geotech (Grain Size, CEC, ORP, TOC)

DEPTH (ft)	RECOVERY (in)	GRAPHIC	USCS	DESCRIPTION	SAMPLES	PID (ppm)	REMARKS
30							
			ML	CLAYEY SILT, tan, soft, moist, high plasticity.		0.0	Soil sample collected at 0825. EIP-SS279-033-1.
35	60/60					0.0	No PID readings from 35' to 40' due to wet soil conditions.
			SP	SAND, tan, medium grained, loose, saturated.		NA	No samples collected from 35' to 40'.
40	40/60		CL	CLAY, gray, stiff, dry, high plasticity, trace pebbles.		NA	
45							
50							
55							
60							

END OF BORING AT 40'
Monitoring Well Developed 2/9/07

MW-279 I



LOG OF BORING EIP-SS280 I

U.S. EPA Region V Remedial Action Contract
Work Assignment 251-RICO-B52A

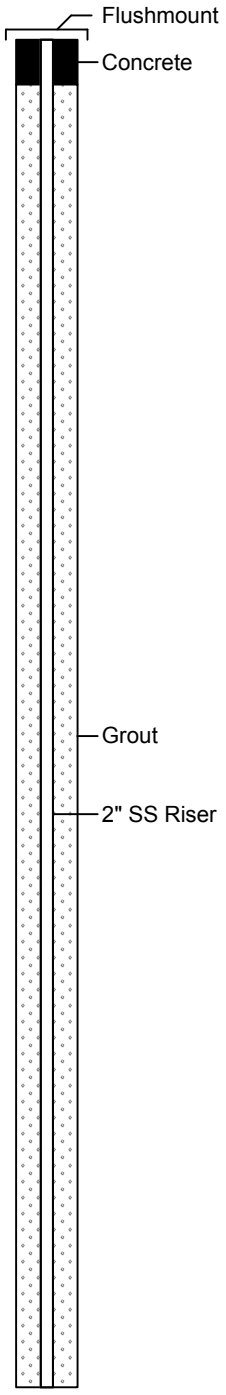
Ellsworth Industrial Park
Downers Grove, Du Page County, Illinois

Start Date	: 2-1-07	Total Depth	: 45' bgs
Finish Date	: 2-1-07	Location	: Rexnord
Driller	: Transhield		: 2400 Curtiss
Drilling Method	: Geoprobe	WESTON Geologist	: M. Castillo
Sampling Method	: Grab		

Samples
- Investigative Sample Collected
- Investigative and Confirmation Sample Collected
- Investigative with Geotech (Grain Size, CEC, ORP, TOC)

DEPTH (ft)	RECOVERY (in)	USCS	DESCRIPTION	SAMPLES	PID (ppm)	REMARKS
0		AS	ASPHALT surface cover.			Geotech collected from 0' to 5' at 1130.
		CL	SILTY CLAY, dark gray, stiff, dry, high plasticity, trace pebbles.		1.3	Soil sample collected at 1110. EIP-SS280-003-1.
5	55/60				1.4	
			as above, brown.			
			as above, dark gray.		1.4	Soil sample collected at 1120. EIP-SS280-008-001.
10	50/60				1.6	
		SW	SAND, reddish brown, medium grained, loose, dry, some silt near 12'.		1.8	Soil sample collected at 1125. EIP-SS280-013-1.
15	60/60				1.8	Soil sample collected at 1135. EIP-SS280-015-1.
			SAND and GRAVEL, red and white, well graded, loose, dry.		2.5	
20	60/60				2.1	Soil sample collected at 1140. EIP-SS280-020-1.
					2.8	
25	50/60		as above, some silty layers throughout.		2.7	Soil sample and duplicate collected at 1305. EIP-SS280-025-1 and EIP-SS280-025-2.
					1.9	
30	60/60				1.8	

MW-280 I



LOG OF BORING EIP-SS280 I

U.S. EPA Region V Remedial Action Contract
Work Assignment 251-RICO-B52A

Ellsworth Industrial Park
Downers Grove, Du Page County, Illinois

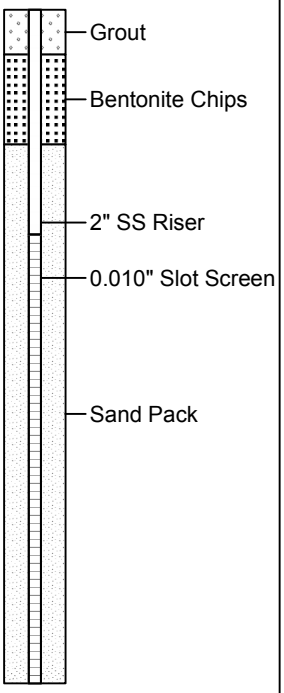
Start Date	: 2-1-07	Total Depth	: 45' bgs
Finish Date	: 2-1-07	Location	: Rexnord
Driller	: Transhield		: 2400 Curtiss
Drilling Method	: Geoprobe	WESTON Geologist	: M. Castillo
Sampling Method	: Grab		

Samples
- Investigative Sample Collected
- Investigative and Confirmation Sample Collected
- Investigative with Geotech (Grain Size, CEC, ORP, TOC)

DEPTH (ft)	RECOVERY (in)	GRAPHIC	USCS	DESCRIPTION	SAMPLES	PID (ppm)	REMARKS
30				SAND and GRAVEL, red and white, well graded, loose, dry, some silt and sand layers throughout.			
			SW			2.7	Soil sample collected at 1315. EIP-SS280-033-1.
35	60/60					3.6	
				CLAY, gray, stiff, dry, high plasticity, trace pebbles.			
			CL			2.5	Soil sample collected at 1340. EIP-SS280-038-1.
40	60/60					2.5	No PID readings from 40' to 45' due to wet soil condition.
			SP	SAND, brown, poorly graded, soft, saturated.			
				CLAY, gray, stiff, dry, high plasticity, trace pebbles.		NA	No samples collected from 40' to 45'.
			CL				
45	60/60					NA	
50							
55							
60							

END OF BORING AT 45'
Monitoring Well Developed 2/9/07

MW-280 I



LOG OF BORING OV-1I

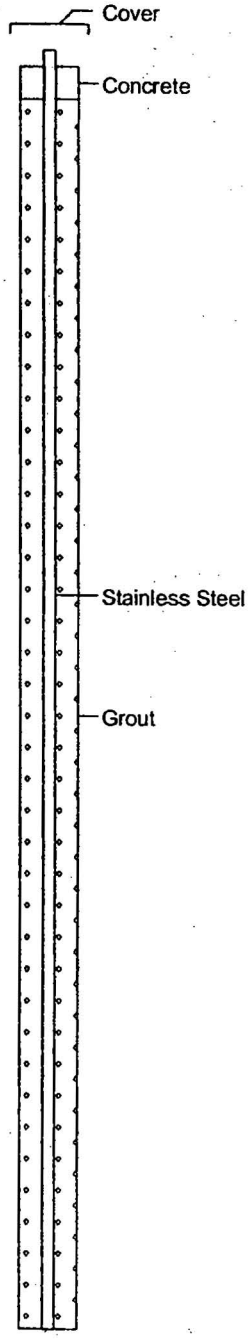
Ellsworth Industrial Park
Downer Grove

W. of Rexnord

Start Date	: 5/29/02	Total Depth	: 54 ft bgs
End Date	: 5/29/02	WESTON Geologist	: B. Schaefer
Driller	: Rock and Soil		
Drilling Method	: 4¼ in ID HSA		
Sampling Method	: Split Spoon		

Depth in feet	Samples	recovery (in)	blow counts (in)	GRAPHIC	USCS	DESCRIPTION	PID/FID (ppm)
0		9					0/0
2		10	7,6,6,7		OL	CLAY; black, silty, as above, a bit of gravel, firm.	0/0
4	X	10	5,6,6,9			CLAY; black, silty, as above, slightly firm, less gravel at bottom.	0/0
6		13	6,6,7,13		CL	CLAY; grey/tan, silty with a bit of coarse sand, very firm, moist, low plast.	0/0
8		19	20,7,12,12			CLAY; grey/tan, silty, as above, stiff, trace red sandstone pieces.	0/0
10		16	5,7,13,12			CLAY; dark tan with some grey, silty, bits of gravel, trace sand, very firm, moist, low plasticity.	0/0
12		19	3,4,6,7			CLAY; grey, silty, gravelly, then reddish brown silty, sandy, some gravel at top, very moist to slightly wet, rest was greyish tan, silty, a bit of gravel, pebbles, stiff, moist.	0/0
14		10	6,5,6,7			CLAY; brownish grey to greyish brown, silty with a bit of sand and trace pebbles, firm, moist, bottom half was gravelly, with trace cobbles at bottom.	0/0
16		13	22,40,26,46		GM	GRAVEL; top was grey layered weathered dolomite cobbles tan, fine, wet; then tan, silty, sandy, gravel, loose, well graded, very moist.	0/0
18		9	4,12,57,18			GRAVEL; grey/brown, silty. sandy, with trace clay at top and grey weathered dolomite cobbles scattered throughout, slightly dense at top to rest loose, moist, well graded.	0/0
20							

Well: OV-1I
Elev.:



LOG OF BORING OV-1I

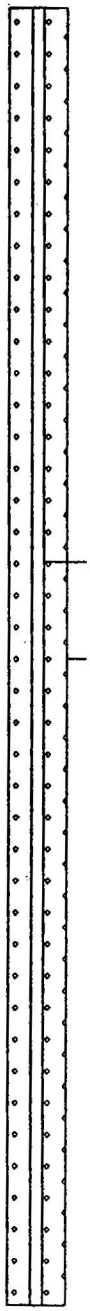
Ellsworth Industrial Park
Downer Grove

W. of Rexnord

Start Date	: 5/29/02	Total Depth	: 54 ft bgs
End Date	: 5/29/02	WESTON Geologist	: B. Schaefer
Driller	: Rock and Soil		
Drilling Method	: 4¼ in ID HSA		
Sampling Method	: Split Spoon		

Well: OV-1I
Elev.:

Depth in feet	Samples	recovery (in)	blow counts (in)	GRAPHIC	USCS	DESCRIPTION	PID/FID (ppm)
20		12	12,12,10,12		SM	SAND; brown, grey, fine, silty, trace gravel and coarse sand, slightly loose.	0/0
					GM	GRAVEL; brown/grey, silty, sandy, loose, moist, well graded.	
22		11	24,6,8,12		GM/SM	Grey/tan silty SAND and GRAVEL, loose, moist, well graded.	0/0
24		11	10,30,28,18		GM	GRAVEL; grey/tan, silty, very sandy, grey weathered dolomite cobbles throughout, well graded, loose, dry to slightly moist.	0/0.1
26		13	20,20,18,20			GRAVEL; grey/tan, silty, very sandy, as above, no dolomite cobbles.	0/0
28	X	24	25,15,15,15			GRAVEL; as above, dense, a few cobbles.	0/0
30		17	13,13,13,10		SM	SAND; grey/tan, silty, with some gravel, fine to coarse grained, slightly dense, dry to moist, well graded.	0/0
32		19	5,10,20,50/4"		ML	SILT; grey/tan, vey fine, sandy, trace clay and sand, firm, very moist, small 3" seam of sand at bottom that was very moist to slightly wet.	0/0
34		6	70/3"		CL	CLAY; dark tan, silty, sandy, soft, moist, low plasticity.	0/0
					GM	GRAVEL; grey dolomite pieces, loose, moist to slightly wet, well graded.	
36						No recovery, drilled through rock.	
38						No recovery, drilled through rock.	
40							



LOG OF BORING OV-1I

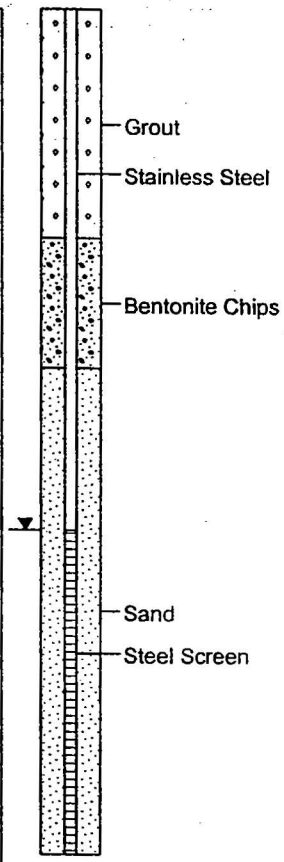
Ellsworth Industrial Park
Downer Grove

W. of Rexnord

Start Date	: 5/29/02	Total Depth	: 54 ft bgs
End Date	: 5/29/02	WESTON Geologist	: B. Schaefer
Driller	: Rock and Soil		
Drilling Method	: 4¼ in ID HSA		
Sampling Method	: Split Spoon		

Well: OV-1I
Elev.:

Depth in feet	Samples	recovery (in)	blow counts (in)	GRAPHIC	USCS	DESCRIPTION	PID/FID (ppm)
40		11	16,17,25,50/4"		CL	CLAY; grey with trace tan, silty, gravelly, some cobbles at top, very firm, slightly moist.	0/0
42		14	40,22,20,18		GM	GRAVEL; tan, silty, sandy, trace clay, dense, moist to v.moist, well graded.	0/0.2
					CL	CLAY; greyish tan at top to grey at bottom, v. silty, v. moist, low plasticity.	
44		17	6,7,12,13		ML	SILT; grey, clayey, trace pebbles, firm, slightly wet, low plasticity.	0/0
46						SILT; as above.	
		18	24,40,40,50/4"		SM	SAND; tan, fine, silty, some gravel, dense, slightly wet.	0/0
48		6	50,50/4"		GM	GRAVEL; grey with tan, silty, sandy, fine, saturated, loose, soupy, well graded.	0/0
50		20	5,5,25,30		SM	SAND; tan, silty, bits of gravel, medium to coarse, loose, saturated, well graded.	0/0
					GM	GRAVEL; tan, silty, sandy, loose, saturated well graded.	
52		12	16,17,23,23		SM	SAND; tan, silty, some gravel, medium to coarse, loose, saturated, well graded.	0/0
					ML	SILT; grey, with a bit of gravel, firm, wet	
54						End of boring @ 54.0 ft	
56							
58							
60							



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LOG OF BORING OV-4I

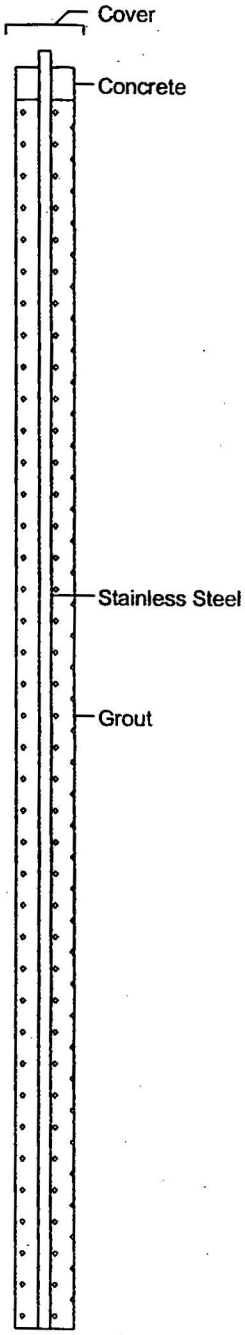
Ellsworth Industrial Park
Downers Grove

SW of Rexnord

Start Date	: 6/3/02	Total Depth	: 58.0 ft bgs
Finish Date	: 6/3/02	WESTON Geologist	: B. Schaefer
Driller	: Rock and Soil		
Drilling Method	: 4¼ in ID HSA		
Sampling Method	: Split Spoon		

Depth in feet	Samples	recovery (in)	blow counts (in)	GRAPHIC	USCS	DESCRIPTION	PID/FID (ppm)
0		12	4,5,9,9		OL	CLAY; black silty with some bits of sand, grass at top, some pieces or reddish brick at the bottom, firm, dry, low plasticity.	0/0
2		2	8,4,5,5		CL	CLAY; grey with trace tan, silty sandy gravelly clay, dry, slightly loose, dense in clumps, low plasticity.	0/0
4			5,4,8,7			No sample collected. Slough material from above.	
6		22	12,12,12,12		GM	GRAVEL; tan to grey, silty sandy with a bit of clay, dense, moist, well graded, trace cobbles at top.	0/0
8		12	8,15,15,12			GRAVEL; grey to tan, silty sandy, a bit of clay, dense, moist, well graded.	0/0
10		11	12,14,15,17			As above, tannish grey.	0/0
12		11	24,24,24,15			GRAVEL; dark tan to tan, silty sandy, a bit of weathered dolomite rock cobbles, slighty loose, well graded, slightly moist.	0/0
14		12	12,12,15,15			GRAVEL; tan sandy silty, trace clay, some dolomite rock cobbles throughout, slightly dense, moist, well graded.	0/0
16	X	10	8,10,15,20			As above, less dolomite, rock cobbles.	0/0
18		12	5,15,30,45			GRAVEL; tan silty with a bit of clay and traces of sand, trace grey dolomite rock cobbles, dense, slightly moist, well graded.	0/0
20							

Well: OV-4I
Elev.:



LOG OF BORING OV-4I

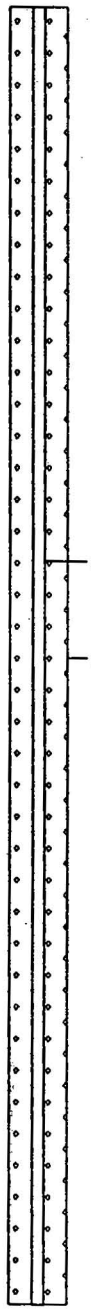
Ellsworth Industrial Park
Downers Grove

SW of Rexnord

Start Date	: 6/3/02	Total Depth	: 58.0 ft bgs
Finish Date	: 6/3/02	WESTON Geologist	: B. Schaefer
Driller	: Rock and Soil		
Drilling Method	: 4¼ in ID HSA		
Sampling Method	: Split Spoon		

Well: OV-4I
Elev.:

Depth in feet	Samples	recovery (in)	blow counts (in)	GRAPHIC	USCS	DESCRIPTION	PID/FID (ppm)
20		10	18,22,25,27		GM	GRAVEL; tan, silty sandy, trace clay at top, some grey dolomite rock cobbles at bottom, loose, slightly moist, well graded.	0/0
22		17	58,22,17,18			GRAVEL; tan, silty sandy, a bit of clay, slightly loose, slightly moist, well graded, some tan dolomite rock cobbles throughout.	0/0
24		15	13,14,30,7			GRAVEL; tan, silty sandy, some clay at top, some tan dolomite rock cobbles at bottom, dense at top, loose at bottom, moist, well graded.	0/0
26		23	24,40,24,24			GRAVEL; tan, silty sandy with some clay at top, some dolomite rock cobbles at bottom, dense at top to loose at bottom, moist, well graded.	0/0
28		14	27,41,27,47			GRAVEL; tan, very silty sandy, a bit of clay, some dolomite rock cobbles throughout, dense to slightly dense, well graded.	0/0
30		9	17,35,19,21		ML/GM	SILT; clayey with some sand, and GRAVEL; dry at top half, grey dolomite rock cobbles, ground up rock at bottom half, loose.	0/0
32		15	13,49,50/2"		ML	SILT; clayey, tan at top, stiff, dry, with some sand; rest was grey, hard, slightly moist, trace pebbles at top to some gravel at bottom.	0/0
34		7	50/4"			SILT; clayey, tan to grey, some sand and gravel, slightly moist, low plasticity, trace weathered dolomite rock cobbles at bottom.	0/0
36	X	9	75/5"			SILT; clayey, tan with a bit of gravel and sand, slightly moist grading to very moist, low plasticity.	0/0
38		19	24,30,27,34			As above at top 4 in; then grey clayey silt with some gravel, pebbles, firm, slightly moist grading to very moist, low plasticity, large grey rock cobble seperating two layers.	0/-
40							



LOG OF BORING OV-4I

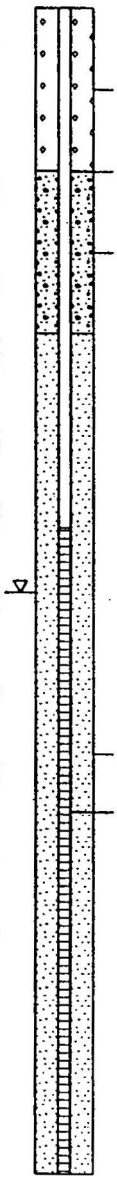
Ellsworth Industrial Park
Downers Grove

SW of Rexnord

Start Date	: 6/3/02	Total Depth	: 58.0 ft bgs
Finish Date	: 6/3/02	WESTON Geologist	: B. Schaefer
Driller	: Rock and Soil		
Drilling Method	: 4¼ in ID HSA		
Sampling Method	: Split Spoon		

Well: OV-4I
Elev.:

Depth in feet	Samples	recovery (in)	blow counts (in)	GRAPHIC	USCS	DESCRIPTION	PID/FID (ppm)
40		17	20,12,15,16		ML	As above, grey clayey silt, very clayey at bottom, gravelly at top, soft, firm, moist to very moist, low plasticity.	0/-
42		8	10,15,27,23			As above, grey clayey silt, a bit of gravel, some large grey rock cobbles at bottom, firm, moist to very moist, low plasticity.	0/-
44		14	18,22,18,30			SILT; clayey, grey, trace gravel, very moist grading to dry, soft grading to very stiff, low plasticity.	0/-
46		14	14,25,50/5"		CL	CLAY; grey, very silty, slightly moist, low plasticity.	0/-
48		11	16,50/5"		SM	SAND; grey, silty, dense, slightly wet.	
					ML	SILT; grey, very fine, sandy with a bit of clay, stiff, very moist, low plasticity.	0/0
					GM	GRAVEL; tan, silty sandy, dense, wet, well graded, a few cobbles throughout.	
50		11	6,39,50/3"		ML	SILT; clayey, grey, firm, very moist, low plasticity.	0/0
52		12	7,39,39,50/3"		GM	GRAVEL; tan, grey, very silty sandy, dense, wet, well graded.	
						GRAVEL; grayish tan, silty sandy, dense, wet, well graded, a few cobbles throughout.	0/0
54		17	17,39,38,37			GRAVEL; grey, very fine sandy silty, slightly dense to partly loose, wet to saturated, well graded, bottom 4" was tan, many large rock cobbles throughout.	0/0
56		9	23,50/5"		ML/GM	Tan to grey SILT and GRAVEL, firm, very moist to slightly wet, a few rock cobbles at bottom.	0/0
58							
60							



End of boring @ 58 ft.

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LOG OF BORING OV-5I

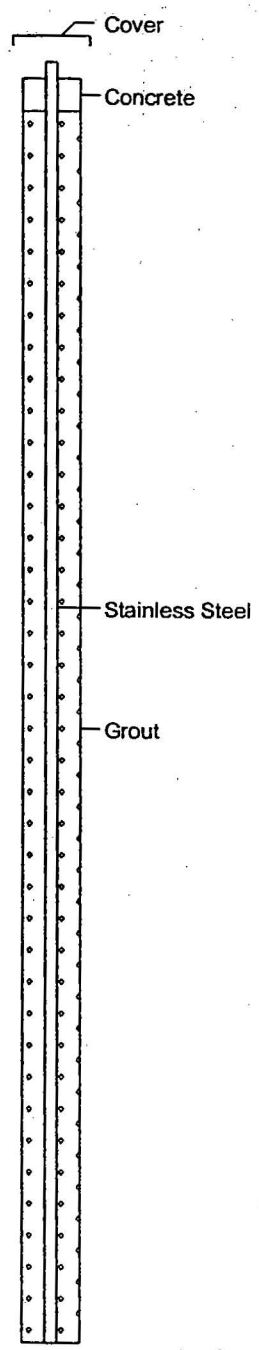
Ellsworth Industrial Park
Downers Grove

Rexnord

Start Date	: 5/23/02	Total Depth	: 50 ft bgs
End Date	: 5/23/02	WESTON Geologist	: B. Schaefer
Driller	: Rock and Soil		
Drilling Method	: 4¼ in ID HSA		
Sampling Method	: Split Spoon		

Depth in feet	Samples	recovery (in)	blow counts (in)	GRAPHIC	USCS	DESCRIPTION	PID (ppm)
0		12	4,4,5,6		OL/CL	CLAY; black, tan, silty, some top soil, some roots/grass, dry, very firm.	0
2		6	4,4,2,4		CL	CLAY; black/grey/brownish red, silty, firm, moist.	0
4		14	4,4,7,7		CL	CLAY; tannish grey, silty, trace pebbles, very firm, moist, trace gravel.	0
6		19	5,6,12,13		CL	CLAY; tannish grey, silty, as above, trace pebbles, thin seam of sandy material at bottom section.	0
8		21	6,9,9,12		CL	CLAY; greyish tan, silty, with trace sand and pebbles, stiff, slightly moist.	0
10		19	5,6,8,8		CL	CLAY; greyish tan, silty with gravel, stiff, slightly moist.	0
12		16	11,15,11,15		CL	CLAY; grey, silty, with trace gravel, grading to tan, silty, with some sand, stiff, moist.	0
					SW	SAND; tan, with a bit of gravel, loose, moist, well graded.	
14	X	9	6,19,19,20		GW/SW	Grey/tan SAND and GRAVEL, loose, moist, well graded.	0
16		10	6,18,19,17		GM	GRAVEL; grey, silty, with some sand, trace clay, dense, very moist, well graded.	0
18		15	4,6,6,7		CL	CLAY; tan, silty, with some gravel and sand at top; grey, silty with some gravel, firm, moist to very moist at bottom.	0
20							

Well: OV-5I
Elev.:



LOG OF BORING OV-5I

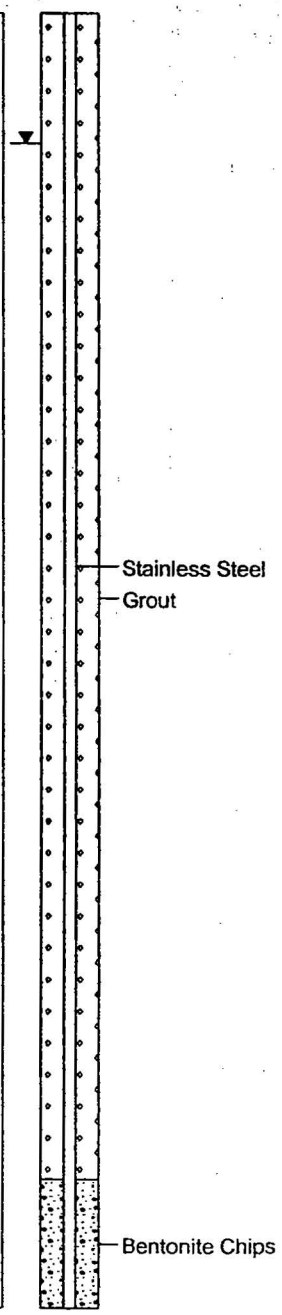
Ellsworth Industrial Park
Downers Grove

Rexnord

Start Date	: 5/23/02	Total Depth	: 50 ft bgs
End Date	: 5/23/02	WESTON Geologist	: B. Schaefer
Driller	: Rock and Soil		
Drilling Method	: 4¼ in ID HSA		
Sampling Method	: Split Spoon		

Well: OV-5I
Elev.:

Depth in feet	Samples	recovery (in)	blow counts (in)	GRAPHIC	USCS	DESCRIPTION	PID (ppm)
20					CL	CLAY; grey, silty, gravelly, grading to brown, silty, some gravel, very firm, moist.	
		14	7,8,12,12		GM	GRAVEL; tan, silty, sandy, trace clay, loose to dense in parts, moist, cobbles.	0
22					SM	SAND; dark tan with some grey, very silty, fine, soft, slightly dense, saturated.	
		17	9,6,7,7				0
24						SAND; dark tan, grey at bottom, very silty, fine, dense, very wet, 2 in of grey stiff clay at bottom.	
		21	5,9,5,5				0
26	X				GM	GRAVEL; silty, sandy, with some clay, grey at top, rust-red at bottom with some tan, slightly dense, well graded, moist.	
		13	50/5"				0
28					GW	GRAVEL; only recovered rock pieces and cobble, could not sample.	
		2	50/3"				0
30						No recovery, drilled through rock.	
32						No recovery, drilled through rock.	
34					GM	GRAVEL; reddish brown, very silty, trace sand, dense, very moist to slightly wet, well graded.	
		14	28,30,28,15				0
36						GRAVEL; tan, silty, with grey medium sand, loose, wet, well graded.	
		10	55,50/2"				0
38					GM/SM	Tan, silty GRAVEL and SAND, well graded, loose, wet.	
		16	28,25,28,30		CL	CLAY; grey, silty, with some gravel, trace sand, stiff, moist.	0
40							



LOG OF BORING OV-5I

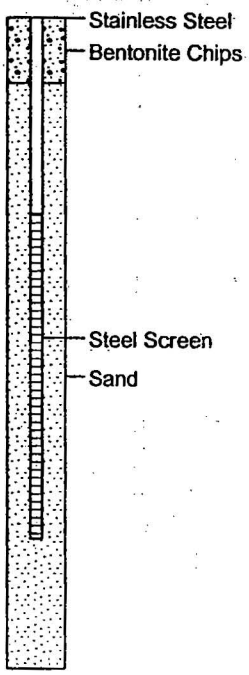
Ellsworth Industrial Park
Downers Grove

Rexnord

Start Date	: 5/23/02	Total Depth	: 50 ft bgs
End Date	: 5/23/02	WESTON Geologist	: B. Schaefer
Driller	: Rock and Soil		
Drilling Method	: 4¼ in ID HSA		
Sampling Method	: Split Spoon		

Well: OV-5I
Elev.:

Depth in feet	Samples	recovery (in)	blow counts (in)	GRAPHIC	USCS	DESCRIPTION	PID (ppm)
40		10	28,25,28,30		CL	CLAY; grey, silty, with some gravel, trace sand, moist, firm.	0
42		15	38,15,38,30		CL	CLAY; grey, very silty, with a few pebbles, very firm, moist, low plasticity.	0
44		9	28,50/2"		GM	GRAVEL; grey, silty, some sand, loose, wet, well graded.	0
46					GM	GRAVEL; grey, silty, sandy, loose, saturated, well graded.	
					GM	GRAVEL; grey, sandy, silty, cobbles, loose.	
		15	7,20,40,50/4"		CL	CLAY; grey, sandy silty, very moist to saturated.	0
48					GM	GRAVEL; grey, sandy, cobbles, loose.	
		18	14,17,15,20		CL	CLAY; grey, very fine sandy silt, with some gravel, pebbles, very moist to wet, firm grading to soft at bottom.	0
50						End of boring @ 50.0 ft	
52							
54							
56							
58							
60							



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LOG OF BORING OV-9I

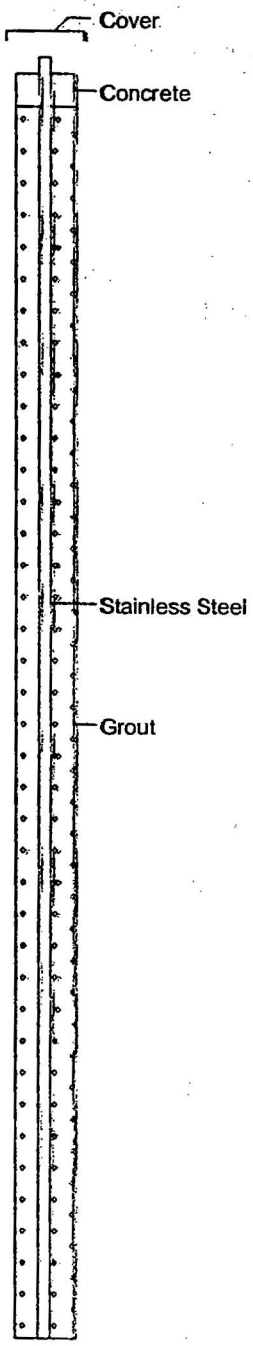
Ellsworth Industrial Park
Downers Grove

S. of Rexnord

Start Date	: 5/30/02	Total Depth	: 41 ft bgs
Finish Date	: 5/30/02	WESTON Geologist	: B. Schaefer
Driller	: Rock and Soil		
Drilling Method	: 4¼ in ID HSA		
Sampling Method	: Split Spoon		

Depth in feet	Samples	recovery (in)	blow counts (in)	GRAPHIC	USCS	DESCRIPTION	PID/FID (ppm)
0		11	4,5,6,8		OL	CLAY; black, silty, with a bit of course sand/gravel, stiff, dry, roots throughout, grass at top.	0/0
2		15	11,8,11,8		CL	CLAY; tan and some black, silty with a bit of gravel, very firm, slightly moist, low plasticity.	0/0
4			8,8,9,10			No sample collected, recovered slough material.	
6		14	6,7,9,10		CL	CLAY; black with a bit of tan, grading to black with a bit of red silty clay, trace of gravel, very firm, slightly moist, low plasticity.	0/0
8		13	6,6,8,12			CLAY; black with a bit of tan to black with a bit of dark brown silty clay, very firm, moist, low plasticity.	0/0
10		11	5,5,5,5			CLAY; black with a bit of dark brown grading to dark brown silty clay, trace gravel, moist, slightly firm, low plasticity.	0/0
12		11	5,4,8,5			CLAY; dark tan, silty, with some pebbles, trace black sand and iron staining, gravelly at bottom, firm, moist, low plasticity.	0/-
14		10	5,9,9,12		GM	GRAVEL; brown, silty, some sand and grey cobbles, loose, dry, well graded.	0/-
16	X	5	14,17,20,20		CL	CLAY; black and tan, silty with some gravel, very firm, slightly moist, possibly slough material.	0/-
18		17	10,12,12,15		GM/SM	Greyish brown silty SAND and GRAVEL, loose, slightly moist, well graded.	0/-
20							

Well: OV-9I
Elev.:



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LOG OF BORING OV-9I

Ellsworth Industrial Park
Downers Grove

S. of Rexnord

Start Date	: 5/30/02	Total Depth	: 41 ft bgs
Finish Date	: 5/30/02	WESTON Geologist	: B. Schaefer
Driller	: Rock and Soil		
Drilling Method	: 4¼ in ID HSA		
Sampling Method	: Split Spoon		

Well: OV-9I
Elev.:

Depth in feet	Samples	recovery (in)	blow counts (in)	GRAPHIC	USCS	DESCRIPTION	PID/FID (ppm)
20		16	4,12,3,20		GM	GRAVEL; greyish brown, silty, sandy, a few cobbles, trace iron staining, loose, slightly moist, well graded.	0/-
22		15	6,17,17,10		GM	As above, no cobbles, dry.	0/-
24		10	8,8,8,12		SM/ML	Dark tan fine SAND and SILT, slightly firm, cohesive, trace iron staining.	0/-
26		18	43,25,20,20		GM	GRAVEL; brown/grey/tan, silty, sandy, a few grey cobbles, slightly dense, slightly moist, well graded.	0/-
28	X	13	20,25,12,10		GM/SM	Grey/tan, silty SAND and GRAVEL, slightly dense, slightly moist, dense, well graded, trace grey cobbles.	0/-
30		12	15,18,18,16		CL	CLAY; dark tan, silty, gravelly, firm slightly moist, low plasticity.	0/-
					SP	SAND; dark tan, fine grained, trace silt, loose, slighty moist, poor graded.	
32		12	16,13,13,13		GM	GRAVEL; grey/tan, silty, sandy, slightly dense, slightly moist, well graded.	0/-
34		14	9,8,7,7		GM	GRAVEL; dark tan, silty, trace sand, loose, wet to saturated, well graded.	0/-
36						No recovery.	
38		9	6,6,7,8		GM	GRAVEL; dark tan, silty, as above.	0/-
40							

LOG OF BORING OV-9I

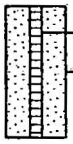
Ellsworth Industrial Park
Downers Grove

S. of Rexnord

Start Date	: 5/30/02	Total Depth	: 41 ft bgs
Finish Date	: 5/30/02	WESTON Geologist	: B. Schaefer
Driller	: Rock and Soil		
Drilling Method	: 4¼ in ID HSA		
Sampling Method	: Split Spoon		

Well: OV-9I
Elev.:

Depth in feet	Samples	recovery (in)	blow counts (in)	GRAPHIC	USCS	DESCRIPTION	PID/FID (ppm)
40		18	7,8,12,12		SM	SAND; brown, fine to medium grained, trace silt, wet, loose, poorly graded.	0/-
					CL	CLAY; grey, silty, trace sand, firm, moist.	
					ML/SM	Grey SILT, fine SAND, soft, saturated.	
42						End of Boring @ 42.0 ft	
44							
46							
48							
50							
52							
54							
56							
58							
60							



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Rexnord
PROJECT NUMBER: 030409
CLIENT:
LOCATION: Downers Grove, Illinois
DRILLING CONTRACTOR: Boart Longyear

HOLE DESIGNATION: RMW-1D
DATE COMPLETED: January 11, 2006
DRILLING METHOD: Rotosonic & HQ Core
FIELD PERSONNEL: M. Groves

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BEDROCK MONITORING WELL	SAMPLE NUMBER	SAMPLE INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
			Steel Protective Cover					
	TOPSOIL, with grass and roots	0.3						
	CLS SANDY CLAY, trace gravel and silt, stiff, low plasticity, dark brown, slightly moist		Concrete Surface Seal	1		2.0		0.9
	- trace sand, gray at 1.4ft BGS							
2	- with silt, no gravel at 2.1ft BGS							
						2.0		1.1
4	- some sand and gravel, hard, brown at 3.9ft BGS					0.3		1.2
	SM SILTY SAND, fine grained, some gravel, well graded, loose, brown, dry	5.5		2		2.0		1.2
6			2" Dia. Stainless Steel Casing					
						2.0		1.1
8								
	- some silt and clay at 9.1ft BGS					0.8		1.3
10								
				3		2.0		1.0
12								
	- trace clay, medium grained at 12.5ft BGS					2.0		0.8
14	- some clay, reddish brown, moist at 14.0ft BGS					1.0		1.1
						0.9		1.1
16								
						0.0		--
18								
						0.0		--
20	- medium to fined grained sand, trace cobbles, light brown, slightly moist at 20.0ft BGS		Bentonite	4		2.0		2.8
22								
						2.0		3.1
24								
						1.0		3.0

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

STATIC WATER LEVEL ▼ 1/10/06

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Rexnord
PROJECT NUMBER: 030409
CLIENT:
LOCATION: Downers Grove, Illinois
DRILLING CONTRACTOR: Boart Longyear

HOLE DESIGNATION: RMW-1D
DATE COMPLETED: January 11, 2006
DRILLING METHOD: Rotosonic & HQ Core
FIELD PERSONNEL: M. Groves

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BEDROCK MONITORING WELL	SAMPLE NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
26						1.0		3.0
						2.0		2.6
28	- trace clay, moist at 27.4ft BGS							
						1.0		2.8
30								
				5		2.0		0.7
32								
	- saturated at 33.0ft BGS					2.0		0.6
34								
						1.0		1.8
	MLS SANDY SILT, soft, moderate plasticity, gray, very moist	34.8				1.0		1.8
36								
	SP SAND, medium grained, some gravel, poorly graded, compact, brown, saturated	37.1				2.0		1.7
38	- fine to medium grained, very moist at 38.3ft BGS							
						2.0		1.4
40								
	MLS SANDY SILT, trace gravel, soft, low plasticity, gray, wet	40.7		6		2.0		1.0
42								
						2.0		0.8
44								
						1.0		0.7
						1.0		0.7
46								
						2.0		0.9
48	- weathered bedrock, tan from 48.1 to 55.0ft BGS							
						2.0		1.1

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

STATIC WATER LEVEL ▼ 1/10/06

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Rexnord
PROJECT NUMBER: 030409
CLIENT:
LOCATION: Downers Grove, Illinois
DRILLING CONTRACTOR: Boart Longyear

HOLE DESIGNATION: RMW-1D
DATE COMPLETED: January 11, 2006
DRILLING METHOD: Rotosonic & HQ Core
FIELD PERSONNEL: M. Groves

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BEDROCK MONITORING WELL	SAMPLE NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
				7		2.0		0.6
52						2.0		0.8
54						1.0		0.7
	- no stratigraphy - outer casing set from 55.0 to 58.0ft BGS	55.0						
56								
58	END OF OVERBURDEN HOLE @ 58.0ft BGS							
60								
62								
64								
66								
68								
70								
72								
74								

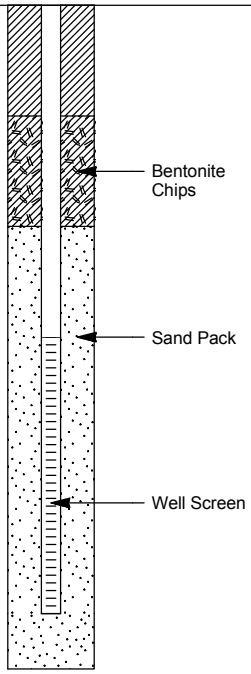
NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

STATIC WATER LEVEL ▼ 1/10/06

STRATIGRAPHIC AND INSTRUMENTATION LOG (BEDROCK)

PROJECT NAME: Rexnord
PROJECT NUMBER: 030409
CLIENT:
LOCATION: Downers Grove, Illinois
DRILLING CONTRACTOR: Boart Longyear

HOLE DESIGNATION: RMW-1D
DATE COMPLETED: January 11, 2006
DRILLING METHOD: Rotosonic & HQ Core
FIELD PERSONNEL: M. Groves

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BEDROCK MONITORING WELL	RUN NUMBER	CORE RECOVERY %	RQD %	Water Return (gallons)
58	LIMESTONE, fine grained, well cemented, massive, bluish-tan - fragmented, unweathered from 58.4 to 58.7ft BGS - horizontal fracture, moderately weathered, sand infilled at 59.0ft BGS - horizontal fracture, moderately weathered at 59.1ft BGS - horizontal fracture, moderately weathered, oxidized at 59.9ft BGS - fragmented, moderately weathered, oxidized from 60.1 to 60.6ft BGS - vertical fracture, slightly, weathered, oxidized from 60.6 to 61.4ft BGS - horizontal fracture, moderately weathered, silt infilled at 61.4ft BGS - fragmented, oxidized at 61.9ft BGS - horizontal fracture, moderately weathered, oxidized at 62.5ft BGS - horizontal fracture, moderately weathered, oxidized at 62.7ft BGS - horizontal fracture, moderately weathered, oxidized at 63.2ft BGS - void, silt infilled from 63.9 to 64.1ft BGS - horizontal fracture, slightly weathered at 64.3ft BGS - fragmented, unweathered from 64.5 to 65.4ft BGS - horizontal fracture, slightly weathered at 65.6ft BGS - horizontal fracture, slightly weathered at 65.9ft BGS - fragmented, slightly weathered at 66.4ft BGS END OF BOREHOLE @ 68.0ft BGS	68.0	 WELL DETAILS Screened interval: 62.0 to 67.0ft BGS Length: 5ft Diameter: 2in Slot Size: 10 Material: Factory-slotted Stainless Steel Seal: 58.0 to 60.0ft BGS Material: Bentonite Chips Sand Pack: 60.0 to 68.0ft BGS Material: #5 Silica Sand	1		0	~40
60				2		33	~110
62				3		17	~100
64							
66				4		25	~75
68							
70							
72							
74							
76							
78							
80							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

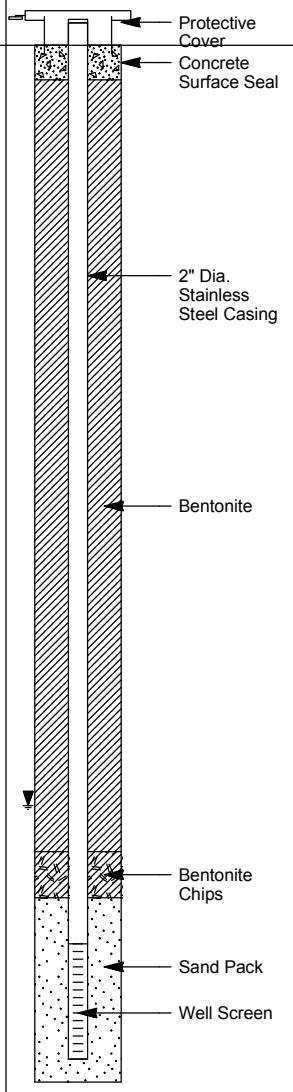
STATIC WATER LEVEL ▼ 1/10/06

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Rexnord
PROJECT NUMBER: 030409
CLIENT:
LOCATION: Downers Grove, Illinois
DRILLING CONTRACTOR: Boart Longyear

HOLE DESIGNATION: RMW-1I
DATE COMPLETED: January 11, 2006
DRILLING METHOD: Rotosonic & HQ Core
FIELD PERSONNEL: M. Groves

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS
	TOPSOIL, with grass and roots	0.3
	CLS SANDY CLAY, trace gravel and silt, stiff, low plasticity, dark brown, slightly moist	
	- trace sand, gray at 1.4ft BGS	
5	- with silt, no gravel at 2.1ft BGS	
	- some sand and gravel, hard, brown at 3.9ft BGS	5.5
	SM SILTY SAND, fine grained, some gravel, well graded, loose, brown, dry	
10	- some silt and clay at 9.1ft BGS	
	- trace clay, medium grained at 12.5ft BGS	
15	- some clay, reddish brown, moist at 14.0ft BGS	
20	- medium to fined grained sand, trace cobbles, light brown, slightly moist at 20.0ft BGS	
25	- trace clay, moist at 27.4ft BGS	
30	- saturated at 33.0ft BGS	
35	MLS SANDY SILT, soft, moderate plasticity, gray, very moist	34.8
	SP SAND, medium grained, some gravel, poorly graded, compact, brown, saturated	37.1
40	- fine to medium grained, very moist at 38.3ft BGS	40.7
	MLS SANDY SILT, trace gravel, soft, low plasticity, gray, wet	
45	END OF BOREHOLE @ 45.0ft BGS	45.0
50		
55		



WELL DETAILS
Screened interval:
39.0 to 44.0ft BGS
Length: 5ft
Diameter: 2in
Slot Size: 10
Material: Factory-slotted Stainless Steel
Seal:
35.0 to 37.0ft BGS
Material: Bentonite Chips
Sand Pack:
37.0 to 45.0ft BGS
Material: #5 Silica Sand

SAMPLE NUMBER	INTERVAL	REC (ft)	'N' VALUE
1		2.0	
		2.0	
		0.3	
2		2.0	
		2.0	
		0.8	
3		2.0	
		2.0	
		1.0	
		0.9	
		0.0	
		0.0	
4		2.0	
		2.0	
		1.0	
		1.0	
		2.0	
		1.0	
5		2.0	
		2.0	
		1.0	
		1.0	
		2.0	
		2.0	
6		2.0	
		2.0	
		1.0	

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
STATIC WATER LEVEL ▼ 1/10/06

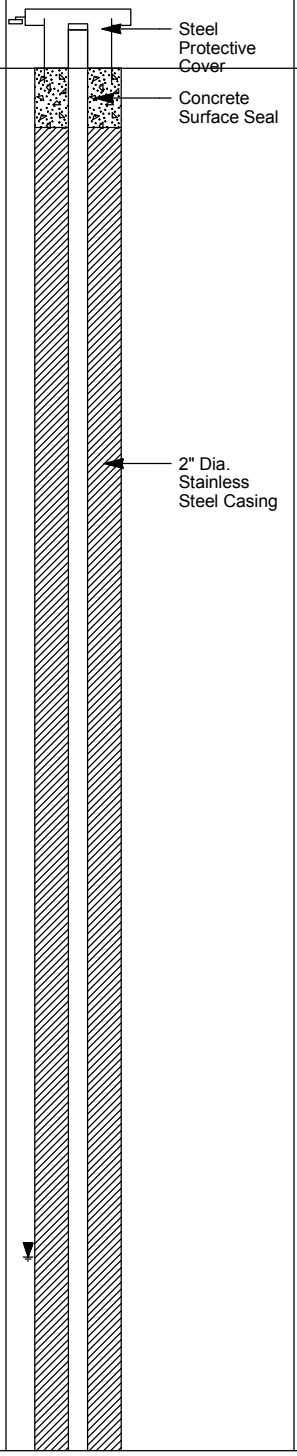
STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Rexnord
PROJECT NUMBER: 030409
CLIENT:
LOCATION: Downers Grove, Illinois
DRILLING CONTRACTOR: Boart Longyear

HOLE DESIGNATION: RMW-2D
DATE COMPLETED: January 12, 2006
DRILLING METHOD: Rotosonic & HQ Core
FIELD PERSONNEL: M. Groves

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS
	TOPSOIL, with grass and roots	0.5
	MLS SANDY SILT, some clay, trace gravel, firm, low plasticity, dark brown, slightly moist	
2	- brown at 1.2ft BGS	2.8
	OL ORGANIC SILT, trace sand, firm, non-plastic, black, slightly moist	
4	- some sand, trace gravel, dark brown at 3.9ft BGS	6.5
6	ML SILT, some clay and sand, trace gravel, stiff, low plasticity, brown, slightly moist	
8	- trace clay, no gravel at 8.9ft BGS	
10		
12		
14		15.0
	SM SILTY SAND, some gravel, loose, well graded, brown, dry	
16		
18	- light brown at 18.3ft BGS	
20		
	- some gravel, trace cobble at 21.1ft BGS	
22		
24		
26		
28	- no cobble, compact, very moist at 28.1ft BGS	
30	- wet/saturated at 30.1ft BGS	30.8
	ML SILT, some sand, trace gravel, firm, low plasticity, gray, moist	32.3
32	SP SAND, medium grained, some gravel, poorly graded, trace silt, compact, brown, saturated	33.5
34	ML SILT, some sand, trace clay and gravel,	

BEDROCK MONITORING WELL



SAMPLE NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
1		2.0		1.4
		2.0		1.8
		0.5		1.9
2		2.0		1.9
		2.0		2.0
		0.5		1.8
3		0.0		--
		0.0		--
		0.0		--
4		2.0		--
		2.0		2.4
		1.0		2.1
5		2.0		1.6
		2.0		1.8
		1.0		2.2
		1.0		2.2
		2.0		2.4
		0.5		1.9
6		2.0		1.8
		2.0		2.2
		1.0		2.3

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

STATIC WATER LEVEL ▼ 1/11/06

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Rexnord
PROJECT NUMBER: 030409
CLIENT:
LOCATION: Downers Grove, Illinois
DRILLING CONTRACTOR: Boart Longyear

HOLE DESIGNATION: RMW-2D
DATE COMPLETED: January 12, 2006
DRILLING METHOD: Rotosonic & HQ Core
FIELD PERSONNEL: M. Groves

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BEDROCK MONITORING WELL	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (ft)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
36	soft, low plasticity, brown, very moist - firm, moist at 34.0ft BGS - no clay, gray, very moist at 34.8ft BGS - moist at 37.5ft BGS					1.0		2.3
38						2.0		1.7
40						2.0		1.9
42				7		2.0		1.0
44						2.0		0.8
46						1.0		0.7
48	- dry at 47.5ft BGS					1.0		0.7
50	- bedrock, limestone fragments at 49.5ft BGS - fragmented, moderately weathered, oxidized from 50.3 to 53.5ft BGS END OF OVERBURDEN HOLE @ 50.0ft BGS					2.0		0.8
						1.5		0.8
52								
54								
56								
58								
60								
62								
64								
66								
68								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

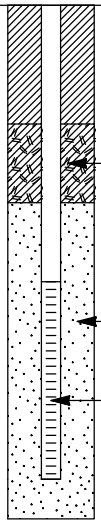
STATIC WATER LEVEL ▼ 1/11/06

STRATIGRAPHIC AND INSTRUMENTATION LOG (BEDROCK)

PROJECT NAME: Rexnord
PROJECT NUMBER: 030409
CLIENT:
LOCATION: Downers Grove, Illinois
DRILLING CONTRACTOR: Boart Longyear

HOLE DESIGNATION: RMW-2D
DATE COMPLETED: January 12, 2006
DRILLING METHOD: Rotosonic & HQ Core
FIELD PERSONNEL: M. Groves

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BEDROCK MONITORING WELL	RUN NUMBER	CORE RECOVERY %	RQD %	Water Return (gallons)
50	- bedrock, limestone fragments at 49.5ft BGS - fragmented, moderately weathered, oxidized from 50.3 to 53.5ft BGS	50.0					
52	LIMESTONE, fine grained, well cemented, massive, gray-blue		Bentonite Chips	1		20	~140
54	- horizontal fracture, moderately weathered, oxidized at 54.0ft BGS - void, heavily weathered, silt infilled at 54.6ft BGS						
56	- horizontal fracture, moderately weathered, oxidized at 55.3ft BGS		Sand Pack	2		58	~90
58	- fragmented, unweathered from 55.4 to 56.1ft BGS - horizontal fracture, slightly weathered at 56.9ft BGS		Well Screen				
60	- horizontal fracture, moderately weathered at 57.4ft BGS			3		33	~50
62	- horizontal fracture, moderately weathered at 59.0ft BGS END OF BOREHOLE @ 61.0ft BGS	61.0					
64							
66							
68							
70							
72							
74							
76							
78							
80							
82							



WELL DETAILS
Screened interval:
55.0 to 60.0ft BGS
Length: 5ft
Diameter: 2in
Slot Size: 10
Material: Factory-slotted Stainless Steel
Seal:
51.0 to 53.0ft BGS
Material: Bentonite Chips
Sand Pack:
53.0 to 61.0ft BGS
Material: #5 Silica Sand

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

STATIC WATER LEVEL ▼ 1/11/06

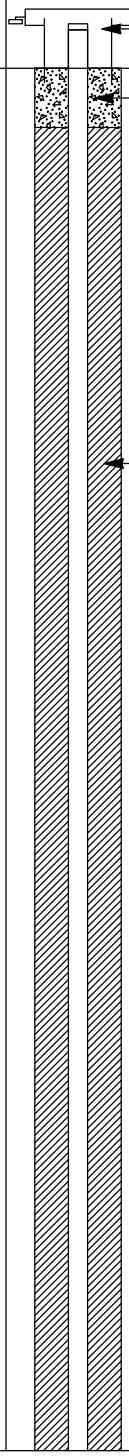
STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Rexnord
PROJECT NUMBER: 030409
CLIENT:
LOCATION: Downers Grove, Illinois
DRILLING CONTRACTOR: Boart Longyear

HOLE DESIGNATION: RMW-3D
DATE COMPLETED: January 13, 2006
DRILLING METHOD: Rotosonic & HQ Core
FIELD PERSONNEL: M. Groves

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS
	TOPSOIL, with grass and roots	0.6
	CL CLAY, sandy, silty, trace gravel, stiff, low plasticity, dark brown, slightly moist	
2	- trace cobble at 1.9ft BGS	
	- no cobble at 3.0ft BGS	
4		
6		6.3
	MLS SANDY SILT, trace clay and gravel, very stiff, low plasticity, dark brown, slightly moist	
8	- stiff, brown at 7.8ft BGS	
10		
12		
14		
	- some gravel, trace cobble, soft, light brown at 15.0ft BGS	
16		
	- no cobble at 17.5ft BGS	
18		
20		
22		
24		
26	- trace cobble at 26.5ft BGS	
28	- no cobble at 28.0ft BGS	
30		30.0
	CL-CH CLAY, silty, some sand, trace gravel, soft, high plasticity, gray, very moist	
32		31.9
	ML SILT, some sand, trace clay and gravel, soft, low plasticity, very moist	
34	- no clay, non-plastic at 33.9ft BGS	

BEDROCK MONITORING WELL



SAMPLE NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
1		2.0		0.2
		2.0		1.8
		0.5		1.9
2		2.0		1.9
		2.0		2.3
		1.0		2.6
3		2.0		--
		2.0		--
		0.5		--
		0.0		--
		0.0		1.6
		0.0		1.8
4		2.0		--
		2.0		--
		1.0		--
		0.0		--
		0.0		2.1
		0.0		2.8
5		2.0		3.4
		2.0		2.9
		1.0		4.8

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

STATIC WATER LEVEL ▼ 1/12/06

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Rexnord
PROJECT NUMBER: 030409
CLIENT:
LOCATION: Downers Grove, Illinois
DRILLING CONTRACTOR: Boart Longyear

HOLE DESIGNATION: RMW-3D
DATE COMPLETED: January 13, 2006
DRILLING METHOD: Rotosonic & HQ Core
FIELD PERSONNEL: M. Groves

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BEDROCK MONITORING WELL	SAMPLE NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
36						1.0		4.8
						2.0		3.5
38	- firm at 37.8ft BGS - stiff, moist at 38.4ft BGS					2.0		3.9
40	- brown at 39.6ft BGS - some sand, soft, wet at 40.0ft BGS			6		2.0		3.2
42	- firm, moist at 42.2ft BGS					2.0		4.8
44						1.0		5.1
	- stiff at 45.0ft BGS					1.0		5.1
46	- 2-inch sand seam, medium to coarse grained at 46.2ft BGS					2.0		4.9
48	- some clay, soft, low plasticity, light gray, wet at 48.1ft BGS					2.0		5.2
50				7		2.0		3.7
52						2.0		3.8
	- with sand at 53.0ft BGS - weathered bedrock, tan, dry at 53.8ft BGS					1.0		4.4
54						1.0		4.4
56						2.0		5.1
	- bedrock and limestone fragments at 57.3ft BGS					2.0		4.8
58								
60	END OF OVERBURDEN HOLE @ 60.0ft BGS							
62								
64								
66								
68								

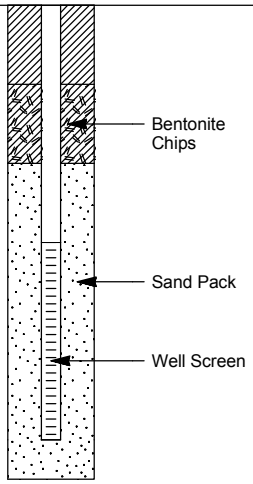
NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

STATIC WATER LEVEL ▼ 1/12/06

STRATIGRAPHIC AND INSTRUMENTATION LOG (BEDROCK)

PROJECT NAME: Rexnord
PROJECT NUMBER: 030409
CLIENT:
LOCATION: Downers Grove, Illinois
DRILLING CONTRACTOR: Boart Longyear

HOLE DESIGNATION: RMW-3D
DATE COMPLETED: January 13, 2006
DRILLING METHOD: Rotosonic & HQ Core
FIELD PERSONNEL: M. Groves

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BEDROCK MONITORING WELL	RUN NUMBER	CORE RECOVERY %	RQD %	Water Return (gallons)
60	LIMESTONE, fine grained, well cemented, massive, gray - horizontal fracture, moderately weathered at 60.4ft BGS - horizontal fracture, heavily weathered at 61.1ft BGS - oxidized, silt infilled at 61.5ft BGS - void, silt/clay infilled from 62.1 to 62.5ft BGS - fragmented, moderately weathered, oxidized from 62.6 to 63.3ft BGS - horizontal fracture, slightly weathered at 64.5ft BGS - void, silt infilled at 65.5ft BGS - horizontal fracture, slightly weathered, oxidized at 68.0ft BGS - horizontal fracture, moderately weathered, oxidized at 68.4ft BGS - horizontal fracture, moderately weathered, oxidized at 68.5ft BGS - horizontal fracture, moderately weathered, oxidized at 68.7ft BGS END OF BOREHOLE @ 70.0ft BGS	60.0 70.0	 WELL DETAILS Screened interval: 64.0 to 69.0ft BGS Length: 5ft Diameter: 2in Slot Size: 10 Material: Factory-slotted Stainless Steel Seal: 60.0 to 62.0ft BGS Material: Bentonite Chips Sand Pack: 62.0 to 70.0ft BGS Material: #5 Silica Sand	1 2 3		33 78 50	~150 ~130 ~75
62							
64							
66							
68							
70							
72							
74							
76							
78							
80							
82							
84							
86							
88							
90							
92							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

STATIC WATER LEVEL ▼ 1/12/06

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Rexnord
PROJECT NUMBER: 030409
CLIENT:
LOCATION: Downers Grove, Illinois
DRILLING CONTRACTOR: Boart Longyear

HOLE DESIGNATION: RMW-4D
DATE COMPLETED: January 17, 2006
DRILLING METHOD: Rotosonic & HQ Core
FIELD PERSONNEL: M. Groves

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BEDROCK MONITORING WELL	SAMPLE NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
	GC CLAYEY GRAVEL, medium to coarse grained, poorly graded, dark gray, moist		Concrete Surface Seal	1		2.0		0
2	CL CLAY, silty, some gravel and cobbles, moderate plasticity, medium brown, moist	2.0				0.8		0
4						0.0		0
6				2		2.0		0
8						1.0		0
						0.0		0
10	- dark gray/brown at 11.0ft BGS		2" Dia. Stainless Steel Casing	3		2.0		2.0
12	- medium gray/brown at 13.0ft BGS					0.6		2.4
14						0.0		0.2
16				4		2.0		1.9
	SM/SC GRAVELLY SAND, some silt and clay, fine to coarse grained sand, fine grained gravel to cobbles, well graded, light brown, dry to moist	16.5						
18						2.0		3.3
20						0.0		4.6
				5		2.0		0.2
22	CL CLAY, gravelly, some silt, low to moderate plasticity, medium brown, moist	22.0				2.0		2.0
24	SM/SC GRAVELLY SAND, some silt and clay, fine to coarse grained sand, fine grained gravel to cobbles, well graded, light brown,	23.5				1.5		3.1

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

STATIC WATER LEVEL ▼ 1/16/06

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Rexnord
PROJECT NUMBER: 030409
CLIENT:
LOCATION: Downers Grove, Illinois
DRILLING CONTRACTOR: Boart Longyear

HOLE DESIGNATION: RMW-4D
DATE COMPLETED: January 17, 2006
DRILLING METHOD: Rotosonic & HQ Core
FIELD PERSONNEL: M. Groves

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	SAMPLE NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
	dry to moist		6		0.0		3.1
26					0.0		1.3
28					0.0		2.2
30	CH CLAY, some silt, trace sand, high plasticity, dark gray, moist	30.0	7		2.0		0.2
32					2.0		2.7
34	SM/SC GRAVELLY SAND, some silt and clay, fine to coarse grained sand, fine grained gravel to cobbles, well graded, light brown, dry to moist - wet at 35.0ft BGS - moist at 36.5ft BGS	34.0			1.0		1.1
36			8				3.8
38							10.2
							1.4
40	CL CLAY, silty, little sand, little gravel, low to moderate plasticity, medium brown, moist	40.0	9				1.5
42							
	ML SILT, clayey, little sand, little gravel, low plasticity, moist to wet	43.0					5.8
44							2.2
46			10				3.8
48	GC/GM SANDY GRAVEL, some silt and clay, fine to coarse grained gravel, well graded, light gray, moist to wet	47.5					2.7
							4.2

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

STATIC WATER LEVEL ▼ 1/16/06

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Rexnord
PROJECT NUMBER: 030409
CLIENT:
LOCATION: Downers Grove, Illinois
DRILLING CONTRACTOR: Boart Longyear

HOLE DESIGNATION: RMW-4D
DATE COMPLETED: January 17, 2006
DRILLING METHOD: Rotosonic & HQ Core
FIELD PERSONNEL: M. Groves

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BEDROCK MONITORING WELL	SAMPLE NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
				11				0.7
52								0.1
54								1.2
56				12				0.1
	CL CLAY, sandy, some silt, little gravel, low plasticity, light gray, moist	57.0						
58								3.6
60								4.4
				13				0.2
62								1.6
64								2.5
	GC/GM SANDY GRAVEL, little silt and clay, fine to coarse grained, light gray, moist (weathered limestone) - moist to wet at 66.5ft BGS - carbonate bedrock from 67.0 to 70.0ft BGS	65.0						
66				14		2.0		8.3
68						2.0		1.5
70	- horizontal fracture, slightly weathered at 70.2ft BGS END OF OVERBURDEN HOLE @ 70.0ft BGS					1.0		0.2
72								
74								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

STATIC WATER LEVEL ▼ 1/16/06

STRATIGRAPHIC AND INSTRUMENTATION LOG (BEDROCK)

PROJECT NAME: Rexnord
PROJECT NUMBER: 030409
CLIENT:
LOCATION: Downers Grove, Illinois
DRILLING CONTRACTOR: Boart Longyear

HOLE DESIGNATION: RMW-4D
DATE COMPLETED: January 17, 2006
DRILLING METHOD: Rotosonic & HQ Core
FIELD PERSONNEL: M. Groves

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BEDROCK MONITORING WELL	RUN NUMBER	CORE RECOVERY %	RQD %	Water Return (gallons)
70	- horizontal fracture, slightly weathered at 70.2ft BGS LIMESTONE, fine grained, well cemented, massive, tan - horizontal fracture, slightly weathered at 70.3ft BGS - horizontal fracture, slightly weathered at 70.5ft BGS - horizontal fracture, slightly weathered at 70.7ft BGS - fragmented, moderately weathered, oxidized from 70.8 to 71.3ft BGS - vertical fracture, moderately weathered, oxidized from 71.3 to 71.5ft BGS - gray-blue at 71.5ft BGS - vertical fracture, moderately weathered, oxidized from 73.5 to 74.0ft BGS	70.0	Bentonite Chips Sand Pack Well Screen	1		40	Unknown
72							
74							
76				2		56	Unknown
78				3		75	Unknown
80	- horizontal fracture, slightly weathered, crystal infilled at 79.6ft BGS - horizontal fracture, slightly weathered, crystal infilled at 79.8ft BGS END OF BOREHOLE @ 80.0ft BGS	80.0					
82							
84							
86							
88							
90							
92							

WELL DETAILS
Screened interval:
75.0 to 80.0ft BGS
Length: 5ft
Diameter: 2in
Slot Size: 10
Material: Factory-slotted Stainless Steel
Seal:
71.0 to 73.0ft BGS
Material: Bentonite Chips
Sand Pack:
73.0 to 80.0ft BGS
Material: #5 Silica Sand

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
STATIC WATER LEVEL ▼ 1/16/06

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Rexnord
PROJECT NUMBER: 030409
CLIENT:
LOCATION: Downers Grove, Illinois
DRILLING CONTRACTOR: Boart Longyear

HOLE DESIGNATION: RMW-4D
DATE COMPLETED: January 17, 2006
DRILLING METHOD: Rotosonic & HQ Core
FIELD PERSONNEL: M. Groves

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	SAMPLE NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
	dry to moist		6		0.0		3.1
26					0.0		1.3
28					0.0		2.2
30	CH CLAY, some silt, trace sand, high plasticity, dark gray, moist	30.0	7		2.0		0.2
32					2.0		2.7
34	SM/SC GRAVELLY SAND, some silt and clay, fine to coarse grained sand, fine grained gravel to cobbles, well graded, light brown, dry to moist - wet at 35.0ft BGS - moist at 36.5ft BGS	34.0			1.0		1.1
36			8				3.8
38							10.2
							1.4
40	CL CLAY, silty, little sand, little gravel, low to moderate plasticity, medium brown, moist	40.0	9				1.5
42							
	ML SILT, clayey, little sand, little gravel, low plasticity, moist to wet	43.0					5.8
44							2.2
46			10				3.8
48	GC/GM SANDY GRAVEL, some silt and clay, fine to coarse grained gravel, well graded, light gray, moist to wet	47.5					2.7
							4.2

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

STATIC WATER LEVEL ▼ 1/16/06

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Rexnord
PROJECT NUMBER: 030409
CLIENT:
LOCATION: Downers Grove, Illinois
DRILLING CONTRACTOR: Boart Longyear

HOLE DESIGNATION: RMW-4D
DATE COMPLETED: January 17, 2006
DRILLING METHOD: Rotosonic & HQ Core
FIELD PERSONNEL: M. Groves

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BEDROCK MONITORING WELL	SAMPLE NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
				11				0.7
52								0.1
54								1.2
56				12				0.1
	CL CLAY, sandy, some silt, little gravel, low plasticity, light gray, moist	57.0						
58								3.6
60								4.4
				13				0.2
62								1.6
64								2.5
	GC/GM SANDY GRAVEL, little silt and clay, fine to coarse grained, light gray, moist (weathered limestone) - moist to wet at 66.5ft BGS - carbonate bedrock from 67.0 to 70.0ft BGS	65.0						
66				14		2.0		8.3
68						2.0		1.5
70	- horizontal fracture, slightly weathered at 70.2ft BGS END OF OVERBURDEN HOLE @ 70.0ft BGS					1.0		0.2
72								
74								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

STATIC WATER LEVEL ▼ 1/16/06

STRATIGRAPHIC AND INSTRUMENTATION LOG (BEDROCK)

PROJECT NAME: Rexnord
PROJECT NUMBER: 030409
CLIENT:
LOCATION: Downers Grove, Illinois
DRILLING CONTRACTOR: Boart Longyear

HOLE DESIGNATION: RMW-4D
DATE COMPLETED: January 17, 2006
DRILLING METHOD: Rotosonic & HQ Core
FIELD PERSONNEL: M. Groves

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BEDROCK MONITORING WELL	RUN NUMBER	CORE RECOVERY %	RQD %	Water Return (gallons)
70	- horizontal fracture, slightly weathered at 70.2ft BGS LIMESTONE, fine grained, well cemented, massive, tan - horizontal fracture, slightly weathered at 70.3ft BGS - horizontal fracture, slightly weathered at 70.5ft BGS - horizontal fracture, slightly weathered at 70.7ft BGS - fragmented, moderately weathered, oxidized from 70.8 to 71.3ft BGS - vertical fracture, moderately weathered, oxidized from 71.3 to 71.5ft BGS - gray-blue at 71.5ft BGS - vertical fracture, moderately weathered, oxidized from 73.5 to 74.0ft BGS	70.0	Bentonite Chips Sand Pack Well Screen	1		40	Unknown
72							
74							
76				2		56	Unknown
78				3		75	Unknown
80	- horizontal fracture, slightly weathered, crystal infilled at 79.6ft BGS - horizontal fracture, slightly weathered, crystal infilled at 79.8ft BGS END OF BOREHOLE @ 80.0ft BGS	80.0					
82							
84							
86							
88							
90							
92							

WELL DETAILS
Screened interval:
75.0 to 80.0ft BGS
Length: 5ft
Diameter: 2in
Slot Size: 10
Material: Factory-slotted Stainless Steel
Seal:
71.0 to 73.0ft BGS
Material: Bentonite Chips
Sand Pack:
73.0 to 80.0ft BGS
Material: #5 Silica Sand

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
STATIC WATER LEVEL ▼ 1/16/06

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Rexnord
PROJECT NUMBER: 030409
CLIENT:
LOCATION: Downers Grove, Illinois
DRILLING CONTRACTOR: Boart Longyear

HOLE DESIGNATION: RMW-5D
DATE COMPLETED: January 19, 2006
DRILLING METHOD: Rotosonic & HQ Core
FIELD PERSONNEL: M. Groves

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BEDROCK MONITORING WELL	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (ft)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
	TOPSOIL, with grass and roots	0.6	Steel Protective Cover; Concrete Surface Seal					
	CL CLAY, some silt, trace sand and gravel, stiff, medium plasticity, dark brown, moist			1			2	0.8
2							2	1.6
4	MLS SANDY SILT, trace clay and gravel, firm, low plasticity, brown, slightly moist	3.7					0.5	1.8
				2			2	1.8
6	- trace cobble at 6.0ft BGS						2	2.4
8							1	2.3
	- no cobble, moist at 9.5ft BGS							
10			2" Dia. Stainless Steel Casing	3			2	2.4
	- slightly moist at 11.4ft BGS							
12							2	1.9
14							1	1.7
	SM SILTY SAND, medium grained, some gravel, poorly graded, loose, brown, slightly moist	15.0					1	1.7
16	- trace cobble at 15.5ft BGS - no cobble at 16.0ft BGS						2	1.6
18							1.5	0.9
20				4			2	1.7
22							2	2.4
24							1	2.6

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

STATIC WATER LEVEL ▼ 1/19/06

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Rexnord
PROJECT NUMBER: 030409
CLIENT:
LOCATION: Downers Grove, Illinois
DRILLING CONTRACTOR: Boart Longyear

HOLE DESIGNATION: RMW-5D
DATE COMPLETED: January 19, 2006
DRILLING METHOD: Rotosonic & HQ Core
FIELD PERSONNEL: M. Groves

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BEDROCK MONITORING WELL	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (ft)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
26							1	1.8
		27.1					2	1.8
28	CL CLAY, some silt and sand, trace gravel, firm, medium plasticity, brown, moist - no sand or gravel, trace silt, high plasticity, gray at 28.0ft BGS						2	1.7
30		31.0		5			2	1.7
	SP SAND, medium grained, some gravel, poorly graded, compact, brown, wet							
32	CL CLAY, some sand, trace silt, soft, high plasticity, gray, very moist	32.3					2	0.9
34							1	1.4
	- with sand at 35.0ft BGS						1	1.4
36		36.3						
	SM SILTY SAND, medium grained, some gravel, trace clay, compact, brown, slightly moist						2	1.9
38							2	2.4
		39.5						
40	CL-ML SILTY CLAY, trace sand, soft, high plasticity, gray moist			6			2	2.6
		41.3						
42	SP SAND, compact, fine to medium grained, poorly graded, brown, wet - with silt at 42.3ft BGS							
		42.7						
	MLS SANDY SILT, some clay, trace gravel, soft, low plasticity, gray, moist						2	2.3
44	- firm at 44.0ft BGS						1	2.0
							1	2.0
46		46.0						
	SP SAND, medium grained, with gravel, poorly graded, compact, brown, wet						2	1.8
		47.5						
48	MLS SANDY SILT, trace gravel, firm, low plasticity, brown, moist - stiff at 48.7ft BGS						2	1.9

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

STATIC WATER LEVEL ▼ 1/19/06

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Rexnord
PROJECT NUMBER: 030409
CLIENT:
LOCATION: Downers Grove, Illinois
DRILLING CONTRACTOR: Boart Longyear

HOLE DESIGNATION: RMW-5D
DATE COMPLETED: January 19, 2006
DRILLING METHOD: Rotosonic & HQ Core
FIELD PERSONNEL: M. Groves

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BEDROCK MONITORING WELL	SAMPLE NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
	SM SILTY SAND, medium grained, some gravel, well graded, compact, brown, wet - with gravel at 51.0ft BGS - some gravel at 52.0ft BGS	50.5		7			2	1.9
52	ML SILT, some sand, trace gravel, firm, low plasticity, gray, moist	52.5					2	2.0
54							1	2.4
	- very moist at 55.0ft BGS						1	2.4
56							2	2.6
58	SP SAND, medium grained, some silt and gravel, poorly graded, compact, gray, wet (weathered bedrock?)	57.5					2	0.9
60				8			2	2.4
62	- bedrock - limestone fragments at 63.0ft BGS						2	1.9
64							1	2.3
	END OF OVERBURDEN HOLE @ 65.0ft BGS							
66								
68								
70								
72								
74								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

STATIC WATER LEVEL ▼ 1/19/06

STRATIGRAPHIC AND INSTRUMENTATION LOG (BEDROCK)

PROJECT NAME: Rexnord
PROJECT NUMBER: 030409
CLIENT:
LOCATION: Downers Grove, Illinois
DRILLING CONTRACTOR: Boart Longyear

HOLE DESIGNATION: RMW-5D
DATE COMPLETED: January 19, 2006
DRILLING METHOD: Rotosonic & HQ Core
FIELD PERSONNEL: M. Groves

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BEDROCK MONITORING WELL	RUN NUMBER	CORE RECOVERY %	RQD %	Water Return (gallons)
		65.0					
66	LIMESTONE, fine grained, fragmented, weathered, well cemented, massive, blue-gray - horizontal fracture, moderately weathered at 65.6ft BGS - horizontal fracture, moderately weathered at 66.2ft BGS - fragmented, unweathered at 67.3ft BGS - horizontal fracture, moderately weathered, oxidized at 67.8ft BGS - horizontal fracture, crystal infilled at 68.3ft BGS - horizontal fracture, moderately weathered at 69.3ft BGS - void, crystal infilled at 69.6ft BGS - horizontal fracture, slightly weathered at 70.0ft BGS - horizontal fracture, highly weathered at 71.2ft BGS - horizontal fracture, highly weathered at 72.3ft BGS - medium grained at 73.0ft BGS - horizontal fracture, moderately weathered at 73.2ft BGS - horizontal fracture, moderately weathered at 73.6ft BGS - horizontal fracture, moderately weathered at 73.8ft BGS - horizontal fracture, moderately weathered at 74.1ft BGS - horizontal fracture, highly weathered at 74.3ft BGS - horizontal fracture, highly weathered at 74.7ft BGS END OF BOREHOLE @ 75.0ft BGS	75.0	Bentonite Chips Sand Pack Well Screen WELL DETAILS Screened interval: 70.0 to 75.0ft BGS Length: 5ft Diameter: 2in Slot Size: 10 Material: Factory-slotted Stainless Steel Seal: 66.0 to 68.0ft BGS Material: Bentonite Chips Sand Pack: 68.0 to 75.0ft BGS Material: #5 Silica Sand	1 2		18 38	~75 ~100
68							
70							
72							
74							
76							
78							
80							
82							
84							
86							
88							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

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