

VOLUME III
DRAFT RCRA FACILITY INVESTIGATION (RFI)

APPENDICES

prepared for

BORDEN, INC.
BAINBRIDGE, NEW YORK

JULY 8, 1992



Environmental and
Applied Earth Science
Consultants

T. M. GATES, INC.
787 ROUND BOTTOM ROAD
MILFORD, OHIO 45150
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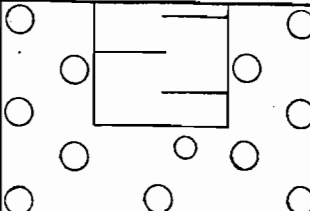
LIST OF APPENDICES

APPENDIX A	WELL LOGS
APPENDIX B	GRAIN SIZE ANALYSES
APPENDIX C	SLUG TEST ANALYSES AND GROUNDWATER VELOCITY CALCULATIONS
APPENDIX D	LABORATORY ANALYTICAL REPORTS: RFI GROUNDWATER
APPENDIX E	LABORATORY ANALYTICAL REPORTS: RFI SOILS
APPENDIX F	SAMPLING GRID SOIL BORING LOGS
APPENDIX G	LABORATORY ANALYTICAL REPORTS: RFI SURFACE WATER AND SEDIMENTS

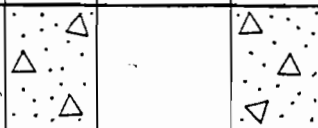
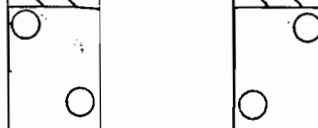
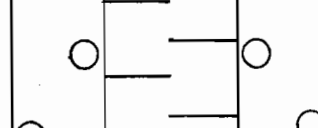
APPENDIX A

WELL LOGS

Converse Ward Davis Dixon, Inc. Geotechnical Consultants				TEST BORING LOG				BORING NO. MW-1	
PROJECT BAINBRIDGE RESIN PLANT - SUBSURFACE INVESTIGATION								SHT. NO. 1 OF 2	
CLIENT BORDEN CHEMICAL								PROJ. NO. 81-06-103-04	
BORING CONTRACTOR EMPIRE SOILS INVESTIGATIONS								ELEVATION 995 GROUND	
GROUND WATER				CAS.	SAMP.	CORE	TUBE	DATUM MSL	
DATE	TIME	DEPTH	CASING	TYPE				DATE START 2/26/81	
3/07/81	11:10	5.2 ft.		DIA.		SS		DATE FINISH 2/26/81	
				WT.		2 in.		DRILLER D.R.	
				FALL		140 lb		CWDD REP. G.W.	
						36 in.			
DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	IDENTIFICATION				
1		1	1	S	GREYISH BROWN SILTY FINE SAND WITH A FEW GRAVEL				
2			2	M					
3			2	M					
4									
5									
6		2	11	S	GREY SILTY FINE TO MEDIUM SAND WITH A FEW GRAVEL (SM)				
7			11	M					
8			14	S					
9				L					
10									
11									
12			6	G	GREY SILTY FINE GRAVEL				
13			7	M					
14			7	M					
15									
16									
17									
18									
19									
20									
21		4	3	M	REDDISH BROWN SILTY VERY FINE SAND				
22			6	L					
23			7	L					
24									
25									
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
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87									
88									
89									
90									
91									
92									
93									
94									
95									
96									
97									
98									
99									
100									

Converse Ward Davis Dixon, Inc. Geotechnical Consultants				TEST BORING LOG		BORING NO. MW-1	
PROJECT BAINBRIDGE RESIN PLANT - SUBSURFACE INVESTIGATION						SHT. NO. 2 OF 2	
CLIENT BORDEN CHEMICAL						PROJ. NO. 81-06-103-04	
DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	IDENTIFICATION		
24							
25							
26			2	M L	REDDISH BROWN SILT OR SILTY VERY FINE SAND		
26			5				
26			5				
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
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40							
41							
42							
43							
44							
45							
46							
47							
48							
49							

FOR INTERPRETATION OF SOIL, ROCK AND GROUNDWATER CONDITIONS, SEE TEXT OF CONVERSE WARD DAVIS DIXON REPORT, OF WHICH THIS LOG IS A PART.

Converse Ward Davis Dixon, Inc. Geotechnical Consultants				TEST BORING LOG				BORING NO. MW-2	
PROJECT BAINBRIDGE RESIN PLANT - SUBSURFACE INVESTIGATION								SHT. NO. 1 OF 1	
CLIENT BORDEN CHEMICAL								PROJ. NO. 81-06-103-04	
BORING CONTRACTOR EMPIRE SOILS INVESTIGATIONS								ELEVATION 993.9 GROUND	
GROUND WATER				CAS.	SAMP.	CORE	TUBE	DATUM MSL	
DATE	TIME	DEPTH	CASING	TYPE				DATE START 2/25/81	
3/07/81	11:50	6.9 ft.		DIA.		SS		DATE FINISH 2/27/81	
				WT.		2 in.		DRILLER J.L.	
				FALL		140 lb.		CWDD REP. D.Y.	
						36 in.			
DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	IDENTIFICATION				
1		1	6	SM	REDDISH BROWN FINE TO MEDIUM SILTY SAND WITH A LITTLE GRAVEL AND CHUNKS OF RESIN (SM-SC)				
			9						
			6						
2									
3					-----				
4					GRAVELLY				
5								← 2" →	
6		2	4	CL	GREYISH BROWN FINE SILTY SAND WITH A TRACE OF GRAVEL (SM)				
			4						
			4						
7									
8									
9									
10									
11		3	16	SM	GREY, RED-STAINED SILTY SAND WITH LENSES OF GRAVEL				
			23						
			20						
12									
13									
14									
15									
16		4	5	ML	GREY, RED-STAINED FINE SILTY SAND (SM)				
			6						
			5						
17									
18									
19									
20									
21		5	6	ML	SAME AS #4.			Fill	
			8						
			7						
22									
23									

FOR INTERPRETATION OF SOIL, ROCK AND GROUNDWATER CONDITIONS, SEE TEXT OF CONVERSE WARD DAVIS DIXON REPORT, OF WHICH THIS LOG IS A PART.

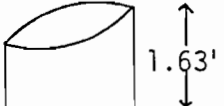
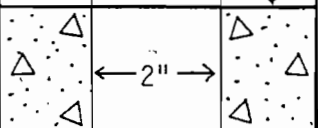
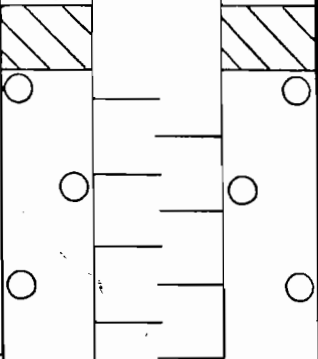
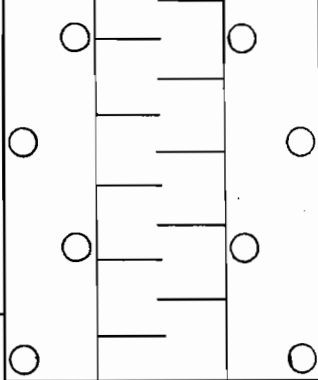
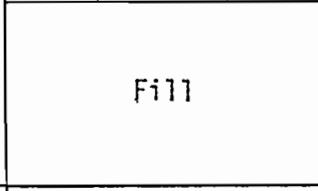
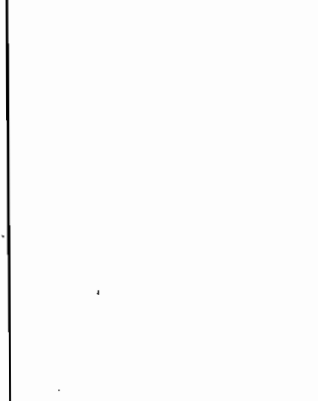
Converse Ward Davis Dixon, Inc. Geotechnical Consultants				TEST BORING LOG				BORING NO. WF-2A	
PROJECT BORDEN - BAINBRIDGE: REMEDIAL/CLOSURE							SHT. NO. 1 OF 1		
CLIENT BORDEN CHEMICAL							PROJ. NO. 81-21-104-01		
BORING CONTRACTOR PARRATT-WOLFF, INC. (SUB-CONT.) EMPIRE SOILS (CONT.)							ELEVATION (TOC 999.8)		
GROUND WATER (TOP OF CASING)				CAS.	SAMP.	CORE	TUBE	DATUM	
DATE	TIME	DEPTH	CASING	TYPE	SS			DATE START 7/8/81	
7/16/81		8.0		DIA.	2 in.			DATE FINISH 7/8/81	
				WT.	140 lb.			DRILLER G.L.	
				FALL	30 in.			CWDD REP. G.W.	
DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	3 3/4" ID (7" OD) HSA IDENTIFICATION				
1		1	4 5 7		BROWN SILT LOAM & COARSE GRAVEL AND ORGANIC MATERIAL (STRAW, GRASS?, ETC.): FILL				
2									
3									
4									
5		2	10 13 16		GREY & TAN, REDDISH-STAINED SANDY LOAM WITH TRACE FINE GRAVEL: FILL (?)				
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									

Converse Ward Davis Dixon, Inc. Geotechnical Consultants				TEST BORING LOG				BORING NO. WF-2B	
PROJECT BORDEN - BAINBRIDGE: REMEDIAL/CLOSURE							SHT. NO. 1 OF 1		
CLIENT BORDEN CHEMICAL							PROJ. NO. 81-21-104-01		
BORING CONTRACTOR PARRATT-WOLFF, INC. (SUB-CONT.) EMPIRE SOILS (CONT.)							ELEVATION (TOC 999.8)		
GROUND WATER (TOP OF CASING)				CAS.	SAMP.	CORE	TUBE	DATUM	
DATE	TIME	DEPTH	CASING	TYPE	SS			DATE START 7/8/81	
7/16/81		8.0		DIA.	2 in.			DATE FINISH 7/8/81	
				WT.	140 lb.			DRILLER G.L.	
				FALL	30 in.			CWDD REP. G.W.	
DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	3 3/4" ID (7" OD) HSA IDENTIFICATION				
1		1	4 5 7		BROWN SILT LOAM & COARSE GRAVEL AND ORGANIC MATERIAL (STRAW, GRASS?, ETC.): FILL				
2									
3									
4									
5			10		GREY & TAN, REDDISH-STAINED SANDY LOAM WITH TRACE FINE GRAVEL: FILL (?)				
6		2	13 16						
7									
8									
9					? BOTTOM OF FILL (±)				
10			6						
11		3	8 9		REDDISH BROWN CLAYEY SILT				
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									

FOR INTERPRETATION OF SOIL, ROCK AND GROUNDWATER CONDITIONS, SEE TEXT OF CONVERSE WARD DAVIS DIXON REPORT, OF WHICH THIS LOG IS A PART

Converse Ward Davis Dixon, Inc. Geotechnical Consultants				TEST BORING LOG				BORING NO. MW -3	
PROJECT BAINBRIDGE RESIN PLANT - SUBSURFACE INVESTIGATION								SHT. NO. 1 OF 1	
CLIENT BORDEN CHEMICAL								PROJ. NO. 81-06-103-04	
BORING CONTRACTOR EMPIRE SOILS INVESTIGATIONS								ELEVATION 993.8 GROUND	
GROUND WATER				CAS.	SAMP.	CORE	TUBE	DATUM MSL	
DATE	TIME	DEPTH	CASING	TYPE				DATE START 2/26/81	
2/26/81	14:30	3.0 ft.		DIA.		2 in.		DATE FINISH 2/26/81	
3/04/81	16:30	2.0 ft.		WT.		140 lb.		DRILLER J.L.	
3/07/81	11:25	2.6 ft.		FALL		36 in.		CWDD REP. D.Y.	
DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	IDENTIFICATION				
1		1	3	S	BROWN FINE SILTY SAND WITH A LITTLE GRAVEL AND ROOTS				
			5	M					
			7						
2									
3				G	GRAVELLY (GM)				
4				C					
5									
6		2	7	M	REDDISH BROWN FINE SILTY SAND (LAMINATED) (SM)				
7			6	L					
8			7						
9				G	GRAVELLY (GM)				
10				C					
11									
12		3	6	M	REDDISH BROWN FINE SILTY SAND (LAMINATED) (SM)				
13			7	L					
14			6						
15									
16		4	4	M	SAME AS #3				
17			5	L					
18									
19									
20									
21		5	4	M	SAME AS #4				
22			5	L					
23			6						

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Converse Ward Davis Dixon, Inc. Geotechnical Consultants				TEST BORING LOG				BORING NO. MW-4	
PROJECT RAINBRIDGE RESIN PLANT - SUBSURFACE INVESTIGATION							SHT. NO. 1 OF 1		
CLIENT BORDEN CHEMICAL							PROJ. NO. 81-06-103-04		
BORING CONTRACTOR EMPIRE SOILS INVESTIGATIONS							ELEVATION 1000.0 GROUND		
GROUND WATER				CAS.	SAMP.	CORE	TUBE	DATUM MSL	
DATE	TIME	DEPTH	CASING	TYPE	SS			DATE START 2/27/81	
3/07/81	11:30	2.2 ft.		DIA.	2 in.			DATE FINISH 2/27/81	
				WT.	140 lb.			DRILLER D.R.	
				FALL	36 in.			CWDD REP. G.W.	
DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	IDENTIFICATION				
1		1	1	CL	BROWN SANDY SILT WITH LARGE GRAVEL (ML)				
			2						
			3						
2					BROWN VERY FINE SANDY SILT (MOIST) (ML)				
3									
4									
5			11						
6		2	9						
7			9	ML	BROWN SILT (MOIST) (ML)				
8									
9									
10									
11		3	4						
12			3	ML	BROWN COARSE SANDY SILT (WET) (ML/SM)				
13			3						
14									
15									
16		4	3						
17			5	ML	BROWN COARSE SANDY SILT (WET) (ML/SM)				
18			5						
19									
20									
21									
22							Fill		
23									

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Converse Ward Davis Dixon, Inc. Geotechnical Consultants				TEST BORING LOG				BORING NO. MW-5	
PROJECT BAINBRIDGE RESIN PLANT - SUBSURFACE INVESTIGATION								SHT. NO. 1 OF 1	
CLIENT BORDEN CHEMICAL								PROJ. NO. 81-06-103-04	
BORING CONTRACTOR EMPIRE SOILS INVESTIGATIONS								ELEVATION 998.8 GROUND	
GROUND WATER				CAS.	SAMP.	CORE	TUBE	DATUM MSL	
DATE	TIME	DEPTH	CASING	TYPE				DATE START 2/25/81	
3/07/81	11:40	3.0 ft		DIA.		SS		DATE FINISH 2/25/81	
				WT.		2 in.		DRILLER J.L.	
				FALL		140 lb		CWDD REP. D.Y.	
						36 in.			
DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	IDENTIFICATION				
1		1	4	SM	BROWN MOTTLED RED FINE TO MEDIUM SILTY SAND WITH A LITTLE GRAVEL & A TRACE OF ROOTS & RESIN CHUNKS (FILL)				
			5						
			5						
2									
3									
4									
5			5	MLCL	BROWN TO GREY FINE SILTY SAND WITH A TRACE OF CLAY (SM)				
6			11						
			12						
7									
8									
9									
10			6	GM	GREY FINE TO MEDIUM SILTY GRAVEL WITH A LITTLE FINE SAND				
11		3	11						
			12						
12									
13									
14									
15			4	MLCL	GREY MOTTLED BROWN FINE SILTY SAND WITH A TRACE OF CLAY (SM)				
16		4	7						
			8						
17									
18									
19									
20									
21									
22									
23									

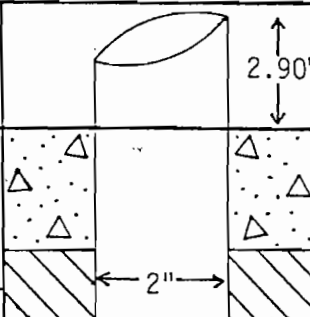
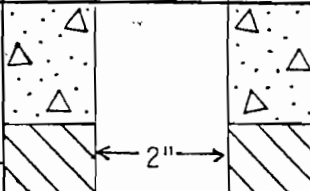
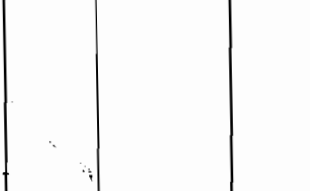
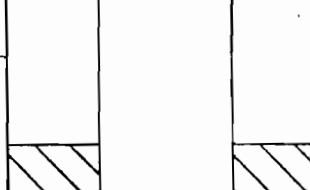
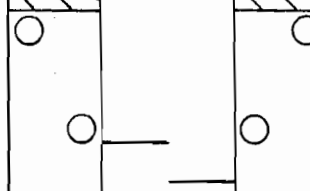
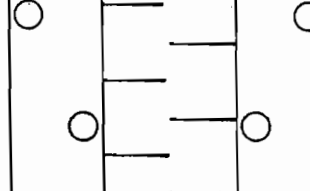
FOR INTERPRETATION OF SOIL, ROCK AND GROUNDWATER CONDITIONS, SEE TEXT OF CONVERSE WARD DAVIS DIXON REPORT, OF WHICH THIS LOG IS A PART.

Converse Ward Davis Dixon, Inc. Geotechnical Consultants				TEST BORING LOG				BORING NO. MW-6	
PROJECT BAINBRIDGE RESIN PLANT - SUBSURFACE INVESTIGATION								SHT. NO. 1 OF 2	
CLIENT BORDEN CHEMICAL								PROJ. NO. 81-06-103-04	
BORING CONTRACTOR EMPIRE SOILS INVESTIGATIONS								ELEVATION 1001.2 GROUND	
GROUND WATER				CAS.	SAMP.	CORE	TUBE	DATUM MSL	
DATE	TIME	DEPTH	CASING	TYPE	SS			DATE START 3/03/81	
3/06/81	9:40	3.1 ft.		DIA.	2 in.			DATE FINISH 3/03/81	
				WT.	140 lb			DRILLER S.B.	
				FALL	36 in.			CWDD REP. G.W.	
DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	IDENTIFICATION				
1		1	1	C L	TAN CLAY & SILT-TRACE OF FINE SAND (TAN/GREY MOTTLED SANDY SILT-ML)				
			3						
2			4						
			8						
3									
4									
5									
6		2	14	G W	WELL-GRADED VERY FINE TO MEDIUM GRAVEL (SILTY) (GW/GM)				
			15						
7			15						
8									
9									
10									
11		3	7	M L C L	BROWN SILT & CLAY TRACE, MEDIUM TO FINE SAND (REDDISH BROWN FINE SANDY SILT-ML)				
			7						
12			8						
13									
14									
15									
16		4	6	M L C L	SAME AS #3 - SOME CLAY? (ML)				
			8						
17			9						
18									
19									
20									
21		5	5	M L C L	SAME AS #4				
			6						
			6						
22									
23									

FOR INTERPRETATION OF SOIL, ROCK AND GROUNDWATER CONDITIONS, SEE TEXT OF CONVERSE WARD DAVIS DIXON REPORT, OF WHICH THIS LOG IS A PART.

Converse Ward Davis Dixon, Inc. Geotechnical Consultants				TEST BORING LOG		BORING NO. MW-6	
PROJECT BAINBRIDGE RESIN PLANT - SUBSURFACE INVESTIGATION						SHT. NO. 2 OF 2	
CLIENT BORDEN CHEMICAL						PROJ. NO. 81-06-103-04	
DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	IDENTIFICATION		
24							
25						Fill	
26		6		M	SAME AS #5		
27				C			
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
41							
42							
43							
44							
45							
46							
47							
48							
49							

FOR INTERPRETATION OF SOIL, ROCK AND GROUNDWATER CONDITIONS, SEE TEXT OF CONVERSE WARD DAVIS DIXON REPORT, OF WHICH THIS LOG IS A PART.

Converse Ward Davis Dixon, Inc. Geotechnical Consultants				TEST BORING LOG				BORING NO. MW-7	
PROJECT BAINBRIDGE RESIN PLANT - SUBSURFACE INVESTIGATION							SHT. NO. 1 OF 2		
CLIENT BORDEN CHEMICAL							PROJ. NO. 81-06-103-04		
BORING CONTRACTOR EMPIRE SOILS INVESTIGATIONS							ELEVATION 1006.4 GROUND		
GROUND WATER				CAS.	SAMP.	CORE	TUBE	DATUM MSL	
DATE	TIME	DEPTH	CASING	TYPE	SS			DATE START 3/04/81	
3/07/81	10:45	5.8 ft		DIA.	2 in.			DATE FINISH 3/04/81	
				WT.	140 lb			DRILLER S.B.	
				FALL	36 in.			CWDD REP. G.W.	
DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	IDENTIFICATION				
1		1	2 4 9	C L	GREY/TAN MOTTLED FINE SANDY SILT (ML)				
2									
3									
4									
5									
6		2	8 6 6	S M	BROWN VERY FINE SANDY SILT (ML)				
7									
8									
9									
10									
11		3	7 7 8	M L C L	REDDISH BROWN VERY FINE SANDY SILT (ML)				
12									
13									
14									
15									
16		4	7 8 8	M L C L	SAME AS #3				
17									
18									
19									
20									
21		5	4 4 4	M L C L	SAME AS #4				
22									
23									

Converse Ward Davis Dixon, Inc. Geotechnical Consultants				TEST BORING LOG		BORING NO. MW-7	
PROJECT BAINBRIDGE RESIN PLANT - SUBSURFACE INVESTIGATION				SHT. NO. 2 OF 2			
CLIENT BORDEN CHEMICAL				PROJ. NO. 81-06-103-04			
DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	IDENTIFICATION		
24							
25							
26		6	4	M	SAME AS #5	Fill	
			5	L			
			5	C			
27				L			
28							
29							
30							
31		7	5	M	SAME AS #6		
			5	L			
			5	C			
32				L			
33							
34							
35							
36		8	5	M	SAME AS #7		
			6	L			
			5	C			
37							
38							
39							
40							
41							
42							
43							
44							
45							
46							
47							
48							
49							

FOR INTERPRETATION OF SOIL, ROCK AND GROUNDWATER CONDITIONS, SEE TEXT OF CONVERSE WARD DAVIS DIXON REPORT, OF WHICH THIS LOG IS A PART.

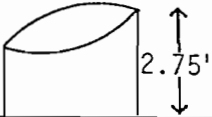
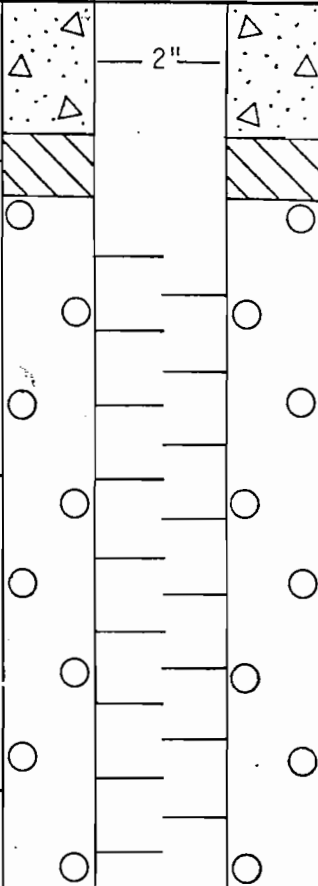
Converse Ward Davis Dixon, Inc. Geotechnical Consultants				TEST BORING LOG				BORING NO. MW-8	
PROJECT BAINBRIDGE RESIN PLANT - SUBSURFACE INVESTIGATION								SHT. NO. 1 OF 2	
CLIENT BORDEN CHEMICAL								PROJ. NO. 81-06-103-04	
BORING CONTRACTOR EMPIRE SOILS INVESTIGATIONS								ELEVATION 1004.5 GROUND	
GROUND WATER				CAS.	SAMP.	CORE	TUBE	DATUM MSL	
DATE	TIME	DEPTH	CASING	TYPE		SS		DATE START 2/26/81	
3/06/81	13:45	3.4 ft.		DIA.		2 in.		DATE FINISH 2/26/81	
				WT.		140 lb		DRILLER J.L.	
				FALL		36 in.		CWDD REP. D.Y.	
DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	IDENTIFICATION				
1		1	3	SM	BROWN FINE SILTY SAND WITH A LITTLE GRAVEL & A TRACE OF ORGANIC MATERIAL (TOP SOIL)				
			4						
			4						
2									
3									
4									
5									
6		2	12	GC	BROWN FINE SILTY GRAVEL WITH SOME SAND (GM)				
			12						
			11						
7									
8									
9									
10									
11		3	4	MLC	GREYISH BROWN TO REDDISH GREY FINE SILTY SAND WITH A TRACE OF GRAVEL & CLAY (SM/ML)				
			5						
			7						
12									
13									
14									
15									
16		4	1	MLC	SAME AS #3				
			3						
			5						
17									
18									
19									
20									
21		5	3	MLC	SAME AS #4				
			6						
			6						
22									
23									

Converse Ward Davis Dixon, Inc. Geotechnical Consultants				TEST BORING LOG		BORING NO. MW-8							
PROJECT BAINBRIDGE RESIN PLANT - SUBSURFACE INVESTIGATION						SHT. NO. 2 OF 2							
CLIENT BORDEN CHEMICAL						PROJ. NO. 81-06-103-04							
DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	IDENTIFICATION								
24		6		M L C L	SAME AS #5		Fill						
25													
26													
27													
28				M L C L				SAME AS #6					
29													
30													
31													
32		7		M L C L							SAME AS #7		
33													
34													
35													
36		8		M L C L	SAME AS #8								
37													
38													
39													
40		9		M L C L									
41													
42													
43													
44													
45													
46													
47													
48													
49													

FOR INTERPRETATION OF SOIL, ROCK AND GROUNDWATER CONDITIONS, SEE TEXT OF CONVERSE WARD DAVIS DIXON REPORT, OF WHICH THIS LOG IS A PART.

Converse Ward Davis Dixon, Inc. Geotechnical Consultants					TEST BORING LOG					BORING NO. MW-9	
PROJECT BAINBRIDGE RESIN PLANT - SUBSURFACE INVESTIGATION										SHT. NO. 1 OF 1	
CLIENT BORDEN CHEMICAL										PROJ. NO. 81-06-103-04	
BORING CONTRACTOR EMPIRE SOILS INVESTIGATIONS										ELEVATION 1004.9 GROUND	
GROUND WATER					CAS.	SAMP.	CORE	TUBE	DATUM MSL		
DATE	TIME	DEPTH	CASING	TYPE		SS			DATE START 3/04/81		
3/06/81	13:35	2.7 ft.		DIA.		2 in.			DATE FINISH 3/04/81		
				WT.		140 lb			DRILLER J.L.		
				FALL		36 in.			CWDD REP. D.Y.		
DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	IDENTIFICATION						
1		1	3 7 12	SM	BROWN MOTTLED RED FINE SILTY SAND WITH A LITTLE GRAVEL & TRACE OF ORGANIC MATERIAL & RESIN (TOP SOIL)						
2											
3											
4											
5											
6		2	12 43 18	GC	BROWN MOTTLED GREY FINE TO MEDIUM SILTY GRAVEL & SAND (GM)						
7											
8											
9											
10											
11		3	19 25 35	GC	SAME AS #2						
12											
13											
14											
15											
16		4	16 15 13	MLC	REDDISH BROWN TO GREY FINE SILTY SAND WITH A TRACE OF CLAY & GRAVEL (SM/ML)						
17											
18											
19											
20											
21		5	4 5 7	MLC	SAME AS #3						
22											
23											

FOR INTERPRETATION OF SOIL, ROCK AND GROUNDWATER CONDITIONS, SEE TEXT OF CONVERSE WARD DAVIS DIXON REPORT, OF WHICH THIS LOG IS A PART.

Converse Ward Davis Dixon, Inc. Geotechnical Consultants				TEST BORING LOG				BORING NO. MW-10	
PROJECT BAINBRIDGE RESIN PLANT - SUBSURFACE INVESTIGATION								SHT. NO. 1 OF 1	
CLIENT BORDEN CHEMICAL								PROJ. NO. 81-06-103-04	
BORING CONTRACTOR EMPIRE SOILS INVESTIGATIONS								ELEVATION 1003.9 GROUND	
GROUND WATER				CAS.	SAMP.	CORE	TUBE	DATUM MSL	
DATE	TIME	DEPTH	CASING	TYPE		SS		DATE START 3/05/81	
3/07/81	9:50	2.5 ft.		DIA.		2 in.		DATE FINISH 3/05/81	
				WT.		140 lb		DRILLER S.B.	
				FALL		36 in.		CWDD REP. G.W.	
DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	IDENTIFICATION				
1		1	1 2 5	M L	BROWN/GREY/TAN MOTTLED SILTY VERY FINE SAND				
2									
3									
4									
5									
6		2	17 21 21	G C	BROWN SILTY FINE TO COARSE GRAVEL WITH A LITTLE COARSE SAND (GM)				
7									
8									
9									
10									
11		3	32 20 25	G C	GREY/BROWN CLAYEY (?) GRAVEL WITH SOME SILT & FINE SAND (GC/GM)				
12									
13									
14									
15									
16		4	17 10 15	C L	REDDISH BROWN CLAYEY (?) SILT (ML)		Fill		
17									
18									
19									
20									
21									
22									
23									

FOR INTERPRETATION OF SOIL, ROCK AND GROUNDWATER CONDITIONS, SEE TEXT OF CONVERSE WARD DAVIS DIXON REPORT, OF WHICH THIS LOG IS A PART.

Converse Ward Davis Dixon, Inc. Geotechnical Consultants				TEST BORING LOG				BORING NO. MW-11	
PROJECT BAINBRIDGE RESIN PLANT - SUBSURFACE INVESTIGATION								SHT. NO. 1 OF 2	
CLIENT BORDEN CHEMICAL								PROJ. NO. 81-06-103-04	
BORING CONTRACTOR EMPIRE SOILS INVESTIGATIONS								ELEVATION 1027.7 GROUND	
GROUND WATER				CAS.	SAMP.	CORE	TUBE	DATUM MSL	
DATE	TIME	DEPTH	CASING	TYPE	SS			DATE START 3/03/81	
3/06/81	13:20	8.2 ft.		DIA.	2 in.			DATE FINISH 3/03/81	
				WT.	140 lb.			DRILLER J.L.	
				FALL	36 in.			CWDD REP. D.Y.	
DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	IDENTIFICATION				
1		1	1	SM	BROWN FINE FILTY SAND WITH A LITTLE ORGANIC MATERIAL (TOP SOIL)				
			2						
			3						
2									
3									
4									
5									
6		2	12	GC	REDDISH BROWN FINE SILTY SAND WITH A LITTLE GRAVEL & CLAY (SM)				
			11						
			10						
7									
8									
9									
10									
11		3	11	MLCL	GREYISH BROWN FINE SILTY SAND WITH A TRACE OF CLAY (SM/ML)				
			9						
			9						
12									
13									
14									
15									
16		4	6	MLCL	SAME AS #3				
			11						
			12						
17									
18									
19									
20									
21		5	8	MLCL	SAME AS #4				
			12						
			15						
22									
23									

FOR INTERPRETATION OF SOIL, ROCK AND GROUNDWATER CONDITIONS, SEE TEXT OF CONVERSE WARD DAVIS DIXON REPORT, OF WHICH THIS LOG IS A PART.

Converse Ward Davis Dixon, Inc. Geotechnical Consultants				TEST BORING LOG		BORING NO. MW-11	
PROJECT BAINBRIDGE RESIN PLANT - SUBSURFACE INVESTIGATION						SHT. NO. 2 OF 2	
CLIENT BORDEN CHEMICAL						PROJ. NO. 81-06-103-04	
DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	IDENTIFICATION		
24							
25			4	M	SAME AS #5		
26		6	5	G			
			6	F			
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
41							
42							
43							
44							
45							
46							
47							
48							
49							

Converse Ward Davis Dixon, Inc. Geotechnical Consultants				TEST BORING LOG				BORING NO. MW-12	
PROJECT BAINBRIDGE RESIN PLANT - SUBSURFACE INVESTIGATION								SHT. NO. 1 OF 1	
CLIENT BORDEN CHEMICAL								PROJ. NO. 81-06-103-04	
BORING CONTRACTOR EMPIRE SOILS INVESTIGATIONS								ELEVATION 1010.2 GROUND	
GROUND WATER				CAS.	SAMP.	CORE	TUBE	DATUM MSL	
DATE	TIME	DEPTH	CASING	TYPE				DATE START 3/05/81	
3/07/81	9:55	2.6 ft.		DIA.				DATE FINISH 3/06/81	
				WT.				DRILLER J.L.	
				FALL				CWDD REP. D.Y.	

DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	IDENTIFICATION	
1		1	2 4 11	S M	YELLOWISH BROWN FINE SILTY SAND WITH A TRACE OF GRAVEL & ORGANIC MATERIAL (TOP SOIL)(ML)	
2						
3						
4						
5						
6		2	11 25 28	S M G M	BROWN FINE SILTY SAND WITH A LITTLE GRAVEL & TRACE OF CLAY (GC)	
7						
8						
9						
10						
11		3	6 11 14	C L	REDDISH BROWN VERY FINE SANDY SILT WITH A TRACE OF CLAY (ML) MOST LIKELY CL BASED ON LABORATORY ANALYSIS OF SAMPLES IN NEARBY BORINGS AT COMPARATIVE ELEVATIONS	
12						
13						
14						
15						
16		4	7 7 7	C L	SAME AS #3	
17						
18						
19						
20						
21						
22						
23						

FOR INTERPRETATION OF SOIL, ROCK AND GROUNDWATER CONDITIONS, SEE TEXT OF CONVERSE WARD DAVIS DIXON REPORT, OF WHICH THIS LOG IS A PART.

Converse Ward Davis Dixon, Inc. Geotechnical Consultants				TEST BORING LOG				BORING NO. WF-2B	
PROJECT BORDEN - BAINBRIDGE: REMEDIAL/CLOSURE							SHT. NO. 1 OF 1		
CLIENT BORDEN CHEMICAL							PROJ. NO. 81-21-104-01		
BORING CONTRACTOR PARRATT-WOLFF, INC. (SUB-CONT.) EMPIRE SOILS (CONT.)							ELEVATION (TOC 999.8)		
GROUND WATER (TOP OF CASING)				CAS.	SAMP.	CORE	TUBE	DATUM	
DATE	TIME	DEPTH	CASING	TYPE	SS			DATE START 7/8/81	
7/16/81		8.0		DIA.	2 in.			DATE FINISH 7/8/81	
				WT.	140 lb.			DRILLER G.L.	
				FALL	30 in.			CWDD REP. G.W.	
DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	3 3/4" ID (7" OD) HSA IDENTIFICATION				
1		1	4 5 7		BROWN SILT LOAM & COARSE GRAVEL AND ORGANIC MATERIAL (STRAW, GRASS?, ETC.): <u>FILL</u>				
2									
3									
4									
5			10		GREY & TAN, REDDISH-STAINED SANDY LOAM WITH TRACE FINE GRAVEL: FILL (?)				
6		2	13 16						
7									
8									
9					? BOTTOM OF FILL (±)				
10			6						
11		3	8 9		REDDISH BROWN CLAYEY SILT				
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									

Converse Ward Davis Dixon, Inc. Geotechnical Consultants				TEST BORING LOG				BORING NO. WF-2A	
PROJECT <u>BORDEN - BAINBRIDGE: REMEDIAL/CLOSURE</u>								SHT. NO. 1 OF 1	
CLIENT <u>BORDEN CHEMICAL</u>								PROJ. NO. <u>81-21-104-01</u>	
BORING CONTRACTOR <u>PARRATT-WOLFF, INC. (SUB-CONT.)</u> EMPIRE SOILS (CONT.)								ELEVATION (TOC 999.8)	
GROUND WATER (TOP OF CASING)				CAS.	SAMP.	CORE	TUBE	DATUM	
DATE	TIME	DEPTH	CASING	TYPE	SS			DATE START <u>7/8/81</u>	
<u>7/16/81</u>		<u>8.0</u>		DIA.	<u>2 in.</u>			DATE FINISH <u>7/8/81</u>	
				WT.	<u>140 lb.</u>			DRILLER <u>G.L.</u>	
				FALL	<u>30 in.</u>			CWDD REP. <u>G.W.</u>	

DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	3 3/4" ID (7" OD) HSA IDENTIFICATION	
1		1	4 5 7		BROWN SILT LOAM & COARSE GRAVEL AND ORGANIC MATERIAL (STRAW, GRASS?, ETC.): <u>FILL</u>	
2						
3						
4						
5						
6		2	10 13 16		GREY & TAN, REDDISH-STAINED SANDY LOAM WITH TRACE FINE GRAVEL: <u>FILL (?)</u>	
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						

Converse Ward Davis Dixon, Inc. Geotechnical Consultants				TEST BORING LOG				BORING NO. MW-13	
PROJECT BAINBRIDGE RESIN PLANT - SUBSURFACE INVESTIGATION								SHT. NO. 1 OF 1	
CLIENT BORDEN CHEMICAL								PROJ. NO. 81-06-103-04	
BORING CONTRACTOR EMPIRE SOILS INVESTIGATIONS								ELEVATION 1023.8 GROUND	
GROUND WATER				CAS.	SAMP.	CORE	TUBE	DATUM MSL	
DATE	TIME	DEPTH	CASING	TYPE	SS			DATE START 3/04/81	
3/07/81	10:10	5.5 ft		DIA.	2 in.			DATE FINISH 3/05/81	
				WT.	140 lb			DRILLER J.L.	
				FALL	36 in.			CWDD REP. D.Y.	
DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	IDENTIFICATION				
1		1	2 7 13	S M	BROWN FINE SILTY SAND WITH A LITTLE GRAVEL (TOP SOIL)(ML)				
2									
3									
4									
5									
6		2	24 30 24	G C	GREYISH BROWN FINE SILTY SAND WITH A LITTLE GRAVEL & TRACE OF CLAY (SM)				
7									
8									
9									
10									
11		3	39 44 55	G C	CLAYEY GRAVEL (TILL)				
12									
13									
14									
15									
16		4	33 14 8	S P	GREYISH BROWN FINE TO MEDIUM SAND WITH A TRACE OF SILT & GRAVEL				
17									
18									
19									
20									
21		5	23 17 14	S P	SAME AS #4				
22									
23									

FOR INTERPRETATION OF SOIL, ROCK AND GROUNDWATER CONDITIONS, SEE TEXT OF CONVERSE WARD DAVIS DIXON REPORT, OF WHICH THIS LOG IS A PART.

FOR INTERPRETATION OF SOIL, ROCK AND GROUNDWATER CONDITIONS, SEE TEXT OF CONVERSE WARD DAVIS DIXON REPORT, OF WHICH THIS LOG IS A PART.

Converse Ward Davis Dixon, Inc. Geotechnical Consultants				TEST BORING LOG		BORING NO. MW-14	
PROJECT BAINBRIDGE RESIN PLANT - SUBSURFACE INVESTIGATION				SHT. NO. 2 OF 2			
CLIENT BORDEN CHEMICAL				PROJ. NO. 81-06-103-04			
DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	IDENTIFICATION		
24						Fill	
25							
26		6	34 36 50	CL	SAME AS #5, BUT SANDIER (SC)		
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
41							
42							
43							
44							
45							
46							
47							
48							
49							

FOR INTERPRETATION OF SOIL, ROCK AND GROUNDWATER CONDITIONS, SEE TEXT OF CONVERSE WARD DAVIS DIXON REPORT, OF WHICH THIS LOG IS A PART.

Converse Ward Davis Dixon, Inc. Geotechnical Consultants				TEST BORING LOG				BORING NO. MW-15	
PROJECT BORDEN - BAINBRIDGE: REMEDIAL/CLOSURE								SHT. NO. 1 OF 1	
CLIENT BORDEN CHEMICAL								PROJ. NO. 81-21-104-01	
BORING CONTRACTOR PARRATT-WOLFF, INC. (SUB-CONT.) EMPIRE SOILS (CONT.)								ELEVATION (TOC 995.7)	
GROUND WATER (TOP OF CASING)				CAS.	SAMP.	CORE	TUBE	DATUM	
DATE	TIME	DEPTH	CASING	TYPE	SS			DATE START 7/9/81 1:30 PM	
7-16-81		11.1		DIA.	2 in.			DATE FINISH 7/9/81 4:30 PM	
				WT.	140 lb.			DRILLER G.L.	
				FALL	30 in.			CWDD REP. G.W.	
				3 3/4" ID (7" OD) HSA IDENTIFICATION					
1		1	5 6 9	F C I L L	BROWN FINE TO COARSE GRAVEL, COBBLES, & SANDY SILT (WITH MEDIUM-COARSE SAND-SIZE SHINY BROWN/BLACK PARTICLES) FILL				
2									
3									
4									
5			2	F C I L L	BROWN SILT/CLAYEY SILT WITH TRACE FINE BLACK MINERAL (?) PARTICLES (FLECKS) FILL(?)				
6		2							
7		3							
8				F C I L L	GROUNDWATER ELEV. = 984.6				
9									
10									
11		3	9 9 13	F C I L L	"GREY" FINE TO COARSE GRAVEL (WITH PINK-RED STAINING, SMEARING) FILL?				
12									
13									
14									
15			3	F C I L L	REDDISH BROWN CLAYEY SILT				
16		4	5 5						
17									
18				F C I L L					
19									
20									
21		5	4 4 5	F C I L L	REDDISH BROWN CLAYEY SILT				
22									
23									
					END OF BORING, 21.5'				

Converse Ward Davis Dixon, Inc. Geotechnical Consultants				TEST BORING LOG				BORING NO. MW-16	
PROJECT BORDEN - BAINBRIDGE: REMEDIAL/CLOSURE								SHT. NO. 1 OF 1	
CLIENT BORDEN CHEMICAL								PROJ. NO. 81-21-104-01	
BORING CONTRACTOR PARRATT-WOLFF, INC. (SUB-CONT.) EMPIRE SOILS (CONT.)								ELEVATION	
GROUND WATER (TOP OF CASING)				CAS.	SAMP.	CORE	TUBE	DATUM	
DATE	TIME	DEPTH	CASING	TYPE	SS			DATE START 7/9/81-8:30 a.m.	
7/16/81		5.5		DIA.	2 in.			DATE FINISH 7/9/81-12 noon	
				WT.	140 lb.			DRILLER G.L.	
				FALL	30 in.			CWDD REP. G.W.	
				3 3/4" ID (7" OD) HSA					
				IDENTIFICATION					
1		1	2	S C	BROWN SANDY LOAM & ROCK FRAGMENTS & ORGANIC MATERIAL (GRASS, ROOTS, ETC.)				
		7							
		9							
2									
3									
4									
5					GROUNDWATER $\pm$				
6		2	8	S C	GREY CLAYEY MEDIUM SAND WITH SOME MEDIUM GRAVEL/ROCK FRAGMENTS				
			13						
			11						
7									
8									
9									
10									
11		3	2	M L C L	REDDISH BROWN CLAYEY SILT				
			3						
			4						
12									
13									
14									
15									
16		4	2	M L C L	REDDISH BROWN CLAYEY SILT				
			4						
			4						
17									
18					GREYISH BROWN CLAYEY SILT				
19									
20									
21		5	3	M L C L	REDDISH BROWN CLAYEY SILT				
			3						
			4						
22									
23					END OF BORING, 21.5'				

TEST BORING LOG

BORING NO. MW-17

PROJECT BORDEN - RAINBRIDGE; REMEDIAL/CLOSURE						SHT. NO. 1 OF 1	
CLIENT BORDEN CHEMICAL						PROJ. NO. 81-21-104-01	
BORING CONTRACTOR PATRICK-WOLFE, INC. (SUB-CONT.) EMPIRE SOILS (CONT.)						ELEVATION (TOC 1000.9)	
GROUND WATER (TOP OF CASING)						DATUM	
DATE	TIME	DEPTH	CASING	TYPE	SS	DATE START 7/6/81 10 a	
7/16/81		9.2		DIA.	2 in.	DATE FINISH 7/6/81 4 p	
				WT.	140 lb.	DRILLER G.L.	
				FALL	30 in.	CWDD REP. G.W.	

DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	IDENTIFICATION	
1		1	7 12 21		FILL: ROCK FRAGMENTS, BLACK RESIN (?) CHUNKS & REDDISH LOAM	2.71'
2						
3						
4						
5						
6		2	11 10 9		GREY COARSE GRAVEL & SAND: FILL?	
7						
8						
9					GROUNDWATER ELEV. ÷ 991.7	
10						
11		3	4 5 6		REDDISH BROWN CLAYEY SILT	
12						
13						
14						
15						
16		4	3 5 8		REDDISH BROWN CLAYEY SILT	
17						
18						
19						
20						Fill
21		5	4 4 6		REDDISH BROWN CLAYEY SILT	
22						
23					END OF BORING, 21.5'	

TEST BORING LOG

BORING NO. MW-18

PROJECT BORDEN - BAINBRIDGE: REMEDIAL/CLOSURE

SHT. NO. 1 OF 1

CLIENT BORDEN CHEMICAL

PROJ. NO. 81-21-104-01

BORING CONTRACTOR PARRATT-WOLFF, INC. (SUB-CONT.) EMPIRE SOILS (CONT.)

ELEVATION (TOC 1002.1)

GROUND WATER (TOP OF CASING)

CAS.

SAMP.

CORE

TUBE

DATUM

DATE

TIME

DEPTH

CASING

TYPE

SS

DATE START 7/7/81 7:30 a.m.

7/16/81

7.8

DIA.

2 in.

DATE FINISH 7/7/81 12 noon

WT.

140 lb.

DRILLER G.L.

FALL

30 in.

CWDD REP. G.W.

DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	3 3/4" ID (7" OD) HSA IDENTIFICATION	
1		1	1	M	BROWN SILT LOAM & ORGANIC MATERIAL	
			2	L		
			4			
2						
3						
4						
5			6	C	GROUNDWATER ELEV. - 994.3	
6		2	6	L	REDDISH BROWN SILTY CLAY (OR CLAYEY SILT)	
			7			
7						
8						
9						
10			4	M	REDDISH BROWN CLAYEY SILT	
11		3	6	L		
			7			
12						
13						
14						
15			3	M	REDDISH BROWN CLAYEY SILT WITH TRACE OF FINE SAND	
16		4	3	L		
			5			
17						
18						
19						
20						
21		5	3	M	REDDISH BROWN CLAYEY SILT WITH TRACE OF FINE SAND	
			5	L		
			5			
22						
23					END OF BORING, 21.5'	

3.23'

2"

Fill

Converse Ward Davis Dixon, Inc. Geotechnical Consultants				TEST BORING LOG				BORING NO. MW-19	
PROJECT BORDEN - BAINBRIDGE: REMEDIAL/CLOSURE							SHT. NO. 1 OF 1		
CLIENT BORDEN CHEMICAL							PROJ. NO. 81-21-104-01		
BORING CONTRACTOR PARRATT-WOLFF, INC. (SUB-CONT.) EMPIRE SOILS (CONT.)							ELEVATION (TOC 998.7)		
GROUND WATER (TOP OF CASING)				CAS.	SAMP.	CORE	TUBE	DATUM	
DATE	TIME	DEPTH	CASING	TYPE	SS			DATE START 7/14/81 9:00 a	
7/16/81		9.8		DIA.	2 in.			DATE FINISH 7/14/81 12 noon	
				WT.	140 lb.			DRILLER G.L.	
				FALL	30 in.			CWDD REP. D.L.P.	
				3 3/4" ID (7" OD) HSA					
				IDENTIFICATION					
DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL					
1		1	3 3 2		SILT LOAM - GRAVEL (APPROX. 40% BY VOLUME) ROOTS (TOPSOIL)				
2									
3									
4									
5			10						
6		2	16 16		SILTY GRAVEL WITH COARSE TO MEDIUM SAND GROUNDWATER ELEV. - 988.9				
7									
8									
9									
10									
11		3	4 5 9		BROWN TO REDDISH BROWN SILT, TRACE CLAY, TRACE VERY FINE SAND				
12									
13									
14									
15									
16		4	3 5 7		BROWN TO REDDISH BROWN SILT, TRACE CLAY, TRACE VERY FINE SAND				
17									
18									
19									
20									
21		5	2 3 4		CLAYEY SILT TO SILTY CLAY				
22									
23					END OF BORING, 21.5'				

FOR INTERPRETATION OF SOIL, ROCK AND GROUNDWATER CONDITIONS, SEE TEXT OF CONVERSE WARD DAVIS DIXON REPORT, OF WHICH THIS LOG IS A PART.

Converse Ward Davis Dixon, Inc. Geotechnical Consultants				TEST BORING LOG				BORING NO. MW-20	
PROJECT BORDEN - BAINBRIDGE: REMEDIAL/CLOSURE								SHT. NO. 1 OF 1	
CLIENT BORDEN CHEMICAL								PROJ. NO. 81-21-104-01	
BORING CONTRACTOR PARRATT-WOLFF, INC. (SUB-CONT.) EMPIRE SOILS (CONT.)								ELEVATION (TOC 990.0)	
GROUND WATER (TOP OF CASING)				CAS.	SAMP.	CORE	TUBE	DATUM	
DATE	TIME	DEPTH	CASING	TYPE	SS			DATE START 7/16/81 8:00	
7/16/81		4.6		DIA.	2 in.			DATE FINISH 7/16/81 10:30	
				WT.	140 lb.			DRILLER G.L.	
				FALL	30 in.			CWDD REP. D.L.P.	
				3 3/4" ID (7" OD) HSA					
				IDENTIFICATION					
DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL					
1		1	2	F.M.	BROWN SILT AND FINE SAND				
			2						
			3						
2					GROUNDWATER ELEV. - 985.4				
3					GRAVEL (ACCORDING TO DRILLERS) NOT SAMPLED				
4									
5			4	F.M.	BROWNISH SILT, FINE SAND, TRACE CLAY				
6		2	6						
7			7						
8									
9									
10			2	F.M.	BROWNISH SILT, FINE SAND, MORE CLAY				
11		3	3						
12			3						
13									
14									
15			3	F.M.	BROWNISH SILT, FINE SAND, MORE CLAY				
16		4	3						
17			4						
18									
19									
20									
21		5	2	F.M.	BROWNISH SILT, FINE SAND, LESS CLAY				
			2						
			3						
22					END OF BORING, 21.5'				
23									

Converse Ward Davis Dixon, Inc. Geotechnical Consultants				TEST BORING LOG				BORING NO. MW-21	
PROJECT BORDEN - BAINBRIDGE: REMEDIAL/CLOSURE								SHT. NO. 1 OF 1	
CLIENT BORDEN CHEMICAL								PROJ. NO. 81-21-104-01	
BORING CONTRACTOR PARRATT-WOLFF, INC. (SUB-CONT.) EMPIRE SOILS (CONT.)								ELEVATION (TOC 999.5)	
GROUND WATER (TOP OF CASING)				CAS.	SAMP.	CORE	TUBE	DATUM	
DATE	TIME	DEPTH	CASING	TYPE	SS			DATE START 7/14/81 1:00	
7/16/81		9.2		DIA.	2 in.			DATE FINISH 7/14/81 4:30	
				WT.	140 lb.			DRILLER G.L.	
				FALL	30 in.			CWDD REP. D.L.P.	
				3 3/4" ID (7" OD) HSA IDENTIFICATION					
1		1	1	M	LIGHT BROWN SANDY SILT, SOME ROOTS				
2			2						
3			3						
4			4						
5			5						
6		2	6	G	GREY FINE TO COARSE GRAVEL AND MEDIUM TO COARSE SAND WITH TRACE SILT				
7			7		GROUNDWATER ELEV. + 990.3				
8			8						
9			9						
10			10						
11		3	11	M	LIGHT BROWN-GREY SILT WITH TRACE FINE SAND, CLAY				
12			12						
13			13						
14			14						
15			15						
16		4	16	M	LIGHT BROWN-GREY SILT WITH TRACE FINE SAND, CLAY				
17			17						
18			18						
19			19						
20			20						
21		5	21	M	LIGHT BROWN-GREY SILT WITH TRACE FINE SAND, CLAY				
22			22						
23			23		END OF BORING 21.5'				

Converse Ward Davis Dixon, Inc. Geotechnical Consultants				TEST BORING LOG				BORING NO. MW-22	
PROJECT BORDEN - BAINBRIDGE: REMEDIAL/CLOSURE								SHT. NO. 1 OF 1	
CLIENT BORDEN CHEMICAL								PROJ. NO. 81-21-104-01	
BORING CONTRACTOR PARRATT-WOLFF, INC. (SUB-CONT.) EMPIRE SOILS (CONT.)								ELEVATION (TOC 999.0)	
GROUND WATER (TOP OF CASING)				CAS.	SAMP.	CORE	TUBE	DATUM	
DATE	TIME	DEPTH	CASING	TYPE	SS			DATE START 7/16/81 11:00	
7/16/81		6.6		DIA.	2 in.			DATE FINISH 7/16/81 2:45	
				WT.	140 lb.			DRILLER G.L.	
				FALL	30 in.			CWDD REP. D.L.P.	
				3 3/4" ID (7" OD) HSA					
				IDENTIFICATION					
DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL					
1		1	2	M	LIGHT BROWN SANDY SILT, TRACE CLAY, ROOTS, SOME GRAVEL				
			2	L					
			7						
2									
3					GROUNDWATER ELEV. - 992.4				
4									
5									
6		2	9	G	SILTY GRAVEL AND COARSE SAND. TRACE CLAY (GREY)				
			11	P					
			12						
7									
8					SILT AND VERY FINE SAND; TRACE CLAY				
9									
10									
11		3	4	M	SILT AND VERY FINE SAND; TRACE CLAY				
			4	L					
			5	C					
12				L					
13					SILT AND VERY FINE SAND; TRACE CLAY				
14									
15									
16		4	5	M	SILT AND VERY FINE SAND; TRACE CLAY				
			5	L					
			7	C					
17				L					
18					SILT AND VERY FINE SAND; TRACE CLAY				
19									
20									
21		5	4		SILT AND VERY FINE SAND; TRACE CLAY				
			4						
			5						
22									
23					END OF BORING, 21.5'				

FOR INTERPRETATION OF SOIL, ROCK AND GROUNDWATER CONDITIONS, SEE TEXT OF CONVERSE WARD DAVIS DIXON REPORT, OF WHICH THIS LOG IS A PART.

T.M. GATES, INC.		INVESTIGATIVE BORING & MONITORING WELL INSTALLATION LOG		MW-3 REINSTALLATION (WELL NO.)	
PROJECT: BAINBRIDGE, NY - RFI				SHT. NO. 1 OF 1	
CLIENT: BORDEN, INC				PROJ. NO. 88-01-026	
BORING CONTRACTOR: T.M. GATES, INC.				DATE START 8/22/91	
TOP OF CASING ELEVATION:				DATE FINISH 8/22/91	
GROUND ELEVATION:		DATUM: MEAN SEA LEVEL		DRILLER BG	
DRILLING METHOD: HOLLOW STEM AUGER				TMG-REP. TKW	
SAMPLING METHOD: SPLIT SPOON BY ASTM METHOD D-1586					
CORING METHOD:					
DEPTH FT.	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	IDENTIFICATION & REMARKS	
1	S-1	3	ML	BROWN CLAYEY SILT, STIFF, TRACE GRAVEL, MOIST	CONCRETE
		4			
2	S-2	6	ML	WET AT 2'	BENTONITE PELLET SEAL
		4			
3	S-3	4	GM	BROWN SILTY GRAVEL, WET	2"
		6			
4	S-4	10	GM		8"
		10			
5	S-5	5			
		5			
6	S-6	6			
		5			
7	S-7	5			
		4			
8	S-8	5	CL	BROWN SILTY CLAY, FIRM, WET	CLEAN COARSE GRAVEL
		6			
9	S-9	4			
		6			
10	S-10	6			
		6			
11	S-11	2			
		4			
12	S-12	5			
		6			
13				2 inch, 0.01 slot stainless steel well screen: 13'-3'	
14				2 inch stainless steel riser: 3'-2' above	
15				clean coarse gravel: 13'-2'	
16				bentonite pellet seal: 2'-1'	
17				concrete: 1'-0'	
18					
19					
20					
21					

T.M. GATES, INC.			INVESTIGATIVE BORING & MONITORING WELL INSTALLATION LOG			MW-23 (WELL NO.)	
PROJECT: BAINBRIDGE, NY - RFI						SHT. NO. 1 OF 1	
CLIENT: BORDEN, INC						PROJ. NO. 88-01-026	
BORING CONTRACTOR: T.M. GATES, INC.						DATE START 8/22/91	
TOP OF CASING ELEVATION:						DATE FINISH 8/22/91	
GROUND ELEVATION: DATUM: MEAN SEA LEVEL						DRILLER BG	
DRILLING METHOD: HOLLOW STEM AUGER						TMG-REP. TKW	
SAMPLING METHOD: SPLIT SPOON BY ASTM METHOD D-1586							
CORING METHOD:							
DEPTH FT.	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	IDENTIFICATION & REMARKS			
1	S - 1	3		NO RECOVERY		CONCRETE BENTONITE PELLET SEAL 2" 8" CLEAN COARSE GRAVEL	
		3					
2	S - 2	3		BROWN SILTY GRAVEL, FIRM, WET AT 3'			
		4					
3	S - 3	3	GM	BROWN SILTY GRAVEL, FIRM, WET AT 3'			
		2					
4	S - 4	2		NO RECOVERY			
		3					
5	S - 5	5		NO RECOVERY			
		5					
6	S - 6	6		BROWN CLAYEY SILT, FIRM, WET			
		4					
7	S - 7	4	ML	BROWN CLAYEY SILT, FIRM, WET			
		4					
8	S - 8	6	CL	BROWN SILTY CLAY, FIRM, WET			
		5					
9	S - 9	3	ML	BROWN CLAYEY SILT, FIRM, WET			
		3					
10	S - 10	3					
		4					
11	S - 11	1					
		2					
12	S - 12	1					
		3					
13				2 inch, 0.01 slot stainless steel well screen: 13'-3'			
14				2 inch stainless steel riser: 3'-2' above			
15				clean coarse gravel: 13'-2'			
16				bentonite pellet seal: 2'-1'			
17				concrete: 1'-0'			
18							
19							
20							
21							

T.M. GATES, INC.		INVESTIGATIVE BORING & MONITORING WELL INSTALLATION LOG			MW-24 (WELL NO).	
PROJECT: BAINBRIDGE, NY - RFI					SHT. NO. 1 OF 1	
CLIENT: BORDEN, INC					PROJ. NO. 88-01-026	
BORING CONTRACTOR: T.M. GATES, INC.					DATE START 8/21/91	
TOP OF CASING ELEVATION:					DATE FINISH 8/21/91	
GROUND ELEVATION: DATUM: MEAN SEA LEVEL					DRILLER BG	
DRILLING METHOD: HOLLOW STEM AUGER					TMG-REP. TKW	
SAMPLING METHOD: SPLIT SPOON BY ASTM METHOD D-1586						
CORING METHOD:						
DEPTH FT.	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	IDENTIFICATION & REMARKS		
1	S-1	3	ML	BROWN CLAYEY SILT, SOME GRAVEL, MOIST		
		6				
2	S-2	8	GM	BROWN SILTY GRAVEL, WET		
		12				
3	S-3	3	GM	BROWN SILTY GRAVEL, WET		
		4				
4	S-4	8	GM	BROWN SILTY GRAVEL, WET		
		8				
5	S-5	5	GM	BROWN SILTY GRAVEL, WET		
		9				
6	S-6	12	ML	GREYCLAYEY SILT, SOME GRAVEL, WET		
		16				
7	S-7	8	GM	BROWN SILTY GRAVEL, WET		
		9				
8	S-8	6	CL	GREY-BROWN SILTY CLAY, WET		
		7				
9	S-9	3	CL	BROWN SILTY CLAY, FIRM, WET		
		3				
10	S-10	3	CL	BROWN SILTY CLAY, FIRM, WET		
		3				
11	S-11	2	CL	BROWN SILTY CLAY, FIRM, WET		
		2				
12	S-12	3	CL	BROWN SILTY CLAY, FIRM, WET		
		3				
13				2 inch, 0.01 slot stainless steel well screen: 13'-3' 2 inch stainless steel riser: 3'-2' above clean coarse gravel: 13'-2' bentonite pellet seal: 2'-1' concrete: 1'-0'		
14						
15						
16						
17						
18						
19						
20						
21						

The diagram illustrates the well structure from the surface down to 21 feet. At the top, a concrete section is shown. Below it is a bentonite pellet seal, with a 2-inch diameter indicated. The main body of the well is filled with clean coarse gravel, with an 8-inch diameter indicated. The well screen is located at the bottom, starting at 13 feet 3 inches. The riser pipe is 3 feet 2 inches above the screen. The gravel section is 13 feet 2 inches long. The bentonite pellet seal is 2 feet 1 inch long. The concrete section at the bottom is 1 foot 0 inches long.

T.M. GATES, INC.			INVESTIGATIVE BORING & MONITORING WELL INSTALLATION LOG		MW-25 (WELL NO.)	
PROJECT: BAINBRIDGE, NY - RFI					SHT. NO. 1 OF 1	
CLIENT: BORDEN, INC					PROJ. NO. 88-01-026	
BORING CONTRACTOR: T.M. GATES, INC.					DATE START 8/21/91	
TOP OF CASING ELEVATION:					DATE FINISH 8/21/91	
GROUND ELEVATION: DATUM: MEAN SEA LEVEL					DRILLER BG	
DRILLING METHOD: HOLLOW STEM AUGER					TMG-REP. TKW	
SAMPLING METHOD: SPLIT SPOON BY ASTM METHOD D-1586						
CORING METHOD:						
DEPTH FT.	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	IDENTIFICATION & REMARKS		
1	S-1	2	ML	BROWN CLAYEY SILT, SOME GRAVEL, MOIST	CONCRETE BENTONITE PELLET SEAL ← 2" → ← 8" → CLEAN COARSE GRAVEL	
	S-2	1				
2		1	GM	BROWN SILTY GRAVEL, WET AT 3'		
3	S-3	5				
	S-4	5				
4		6				
5	S-5	6	GM	BROWN SILT, SOME GRAVEL, WET		
	S-6	5				
6		12	CL	BROWN SILTY CLAY, WET		
7	S-7	3				
		5				
8	S-8	5				
		6				
9	S-9	3				
		3				
10	S-10	5				
		6		2 inch, 0.01 slot stainless steel well screen: 13'-3' 2 inch stainless steel riser: 3'-2' above clean coarse gravel: 13'-2' bentonite pellet seal: 2'-1' concrete: 1'-0'		
11	S-11	3				
		5				
12	S-12	6				
13		6				
14						
15						
16						
17						
18						
19						
20						
21						

T.M. GATES, INC.		INVESTIGATIVE BORING & MONITORING WELL INSTALLATION LOG		MW-26 (WELL NO.)	
PROJECT: BAINBRIDGE, NY - RFI				SHT. NO. 1 OF 1	
CLIENT: BORDEN, INC				PROJ. NO. 88-01-026	
BORING CONTRACTOR: T.M. GATES, INC.				DATE START 8/23/91	
TOP OF CASING ELEVATION:				DATE FINISH 8/23/91	
GROUND ELEVATION:		DATUM: MEAN SEA LEVEL		DRILLER BG	
DRILLING METHOD: HOLLOW STEM AUGER				TMG-REP. TKW	
SAMPLING METHOD: SPLIT SPOON BY ASTM METHOD D-1586					
CORING METHOD:					
DEPTH FT.	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	IDENTIFICATION & REMARKS	
1	S-1	2	CL	BROWN SILTY CLAY, MOIST, SOFT WET AT 4.3'	
		2			
2	S-2	2			
		2			
3	S-3	2			
		1			
4	S-4	2			
		2			
5	S-5	1			
		2			
6	S-6	1 1/2	ML	GREY CLAYEY SILT, WET	
		1 1/2			
7	S-7	1 1/2			
		1 1/2			
8	S-8	1 1/2			
		1 1/2			
9	S-9	1 1/2			
		1 1/2			
10	S-10	1 1/2			
		1 1/2			
11	S-11	1 1/4		2 inch, 0.01 slot stainless steel well screen: 12'-2'	
		1 1/4			
12	S-12	1 1/4		2 inch stainless steel riser: 2'-3' above	
		1 1/4		clean coarse gravel: 12'-1'	
13				bentonite pellet seal: 1'-0.5'	
14				concrete: 0.5'-0'	
15					
16					
17					
18					
19					
20					
21					

T.M. GATES, INC.		INVESTIGATIVE BORING & MONITORING WELL INSTALLATION LOG			MW-28 (WELL NO).	
PROJECT: BAINBRIDGE, NY - RFI SUPPLEMENTAL					SHT. NO. 1 OF 1	
CLIENT: BORDEN, INC					PROJ. NO. 91-01-027	
BORING CONTRACTOR: T.M. GATES, INC.					DATE START 1/29/92	
TOP OF CASING ELEVATION:					DATE FINISH 1/29/92	
GROUND ELEVATION:		DATUM: MEAN SEA LEVEL			DRILLER BG	
DRILLING METHOD: HOLLOW STEM AUGER					TMG-REP. TKW	
SAMPLING METHOD: SPLIT SPOON BY ASTM METHOD D-1586						
CORING METHOD:						
DEPTH FT.	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	IDENTIFICATION & REMARKS		
1	S-1				CONCRETE GROUT ← 2" → BENTONITE PELLET SEAL 8" COARSE SAND	
	S-2					
2						
	S-3					
3						
	S-4			BROWN SILTY CLAY, SOME GRAVEL, MOIST		
4						
	S-5					
5						
	S-6					
6						
	S-7					
7						
	S-8					
8						
	S-9					
9						
	S-10					
10						
	S-11					
11						
	S-12					
12						
13						
14						
15						
16						
17				2 inch, 0.01 slot PVC well screen: 15'-5'		
18				2 inch PVC riser: 5'-2.5' above		
19				coarse sand: 15'-4'		
20				bentonite pellet seal: 4'-3'		
21				concrete grout: 3'-0'		

T.M. GATES, INC.		INVESTIGATIVE BORING & MONITORING WELL INSTALLATION LOG		MW-29 (WELL NO.)
PROJECT: BAINBRIDGE, NY - RFI SUPPLEMENTAL			SHT. NO. 1 OF 1	
CLIENT: BORDEN, INC			PROJ. NO. 91-01-027	
BORING CONTRACTOR: T.M. GATES, INC.			DATE START 1/29/92	
TOP OF CASING ELEVATION:			DATE FINISH 1/29/92	
GROUND ELEVATION: DATUM: MEAN SEA LEVEL			DRILLER BG	
DRILLING METHOD: HOLLOW STEM AUGER			TMG-REP. TKW	
SAMPLING METHOD: SPLIT SPOON BY ASTM METHOD D-1586				
CORING METHOD:				
DEPTH FT.	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	IDENTIFICATION & REMARKS
1	S-1			
	S-2			
2				
	S-3			
3				
	S-4			
4				RED-BROWN CLAYEY SILT, TRACE COBBLES, VERY MOIST
	S-5			
5				
	S-6			
6				
	S-7			
7				
	S-8			
8				
	S-9			
9				
	S-10			
10				
	S-11			
11				
	S-12			
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				

The diagram shows a vertical well casing. At the bottom, there is a section labeled "COARSE SAND" with a stippled pattern. Above it is a section labeled "BENTONITE PELLET SEAL" with a wavy pattern. A horizontal arrow indicates a width of "2\"". Another horizontal arrow further up indicates a height or thickness of "8\"".

2 inch, 0.01 slot PVC well screen: 15.5'-5.5'

2 inch PVC riser: 5.5'-2' above coarse sand: 15.5'-2'

bentonite pellet seal: 2'-0'

T.M. GATES, INC.			INVESTIGATIVE BORING & MONITORING WELL INSTALLATION LOG		MW-30 (WELL NO.)	
PROJECT: BAINBRIDGE, NY - RFI SUPPLEMENTAL					SHT. NO. 1 OF 1	
CLIENT: BORDEN, INC					PROJ. NO. 91-01-027	
BORING CONTRACTOR: T.M. GATES, INC.					DATE START 1/29/92	
TOP OF CASING ELEVATION:					DATE FINISH 1/29/92	
GROUND ELEVATION: DATUM: MEAN SEA LEVEL					DRILLER BG	
DRILLING METHOD: HOLLOW STEM AUGER					TMG-REP. TKW	
SAMPLING METHOD: SPLIT SPOON BY ASTM METHOD D-1586						
CORING METHOD:						
DEPTH FT.	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	IDENTIFICATION & REMARKS		
1	S-1				CONCRETE GROUT ← 2" → BENTONITE PELLET SEAL 8" COARSE SAND 2 inch, 0.01 slot PVC well screen: 14'-4" 2 inch PVC riser: 4'-3.5' above coarse sand: 14'-3' bentonite pellet seal: 3'-2' concrete grout: 2'-0'	
	S-2					
2						
	S-3					
3						
	S-4			BROWN SILTY CLAY, SOME GRAVEL, MOIST		
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	S-5					
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	S-6					
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