Appendix 4

BORING No. C-1-05

BORING LOG

SHEET 1 OF 3

CLIENT Aggregate Industries
Chelsea, Michigan

PROJECT Sand and Gravel Exploration in Chelsea, MI

JOB No. 133873

LOCATION OF BORING :
As Directed

GROUND ELEV. _____ METHOD SONIC

DRILLING COMMENTS

DATE STARTED 3/21/2005

DATE ENDED 3/21/2005

DRILLERS JK, TW, SW

DEPTH, FT	SAMPLE NO.	DEPTH OF SAMPLE, FT FROM	DEPTH OF SAMPLE, FT TO	BLOWS ON SAMPLER PER 6" INTERVAL	DEPTH OF STRATUM, FT	GRAPHICS	CLASSIFICATION OF MATERIAL	SPT "N" OR RECOVERY
1							Brown Sand and gravel	
2								
3								
4					4.0			
5							Brown Sand and gravel with cobbles	
6								
7								
8								
9					9.0		Brown Sand and gravel, some cobbles	
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

Major Component: Gravel, Sand, Silt, Clay
Minor Component Term: Trace 1-10%, Some 11-35%, And 36-50%

GROUND WATER OBSERVATIONS		DEPTH	DATE
	INITIAL		3/21/2005
	AT COMPLETION		3/21/2005
	OTHER		

A — SPLIT SPOON E — AUGER CUTTINGS
B — ROCK CORE
C — SHELBY TUBE
D — SONIC

BOWSER MORNER

BORING No. C-1-05

REPORT No. 133873 SHEET 2 OF 3

DEPTH, FT	SAMPLE NO.	DEPTH OF SAMPLE, FT FROM	DEPTH OF SAMPLE, FT TO	BLOWS ON SAMPLER PER 6 IN INTERVAL	DEPTH OF STRATUM, FT	GRAPHICS	CLASSIFICATION OF MATERIAL	SPT "N" OR RECOVERY
							Major Component: Gravel, Sand, Silt, Clay Minor Component Term: Trace 1-10%, Some 11-35%, And 36-50%	
22								
23								
24								
25								
26								
27								
28								
29								
30								
31								
32								
33								
34								
35								
36								
37					37.0		Brown, gravel	
38								
39					39.0		Brown Sand, traces of cobbles	
40								
41								
42								
43								
44								
45								
46								
47								
48								
49								
50								

		DEPTH	DATE
GROUND WATER OBSERVATIONS	INITIAL		▽ 3/21/2005
	AT COMPLETION		▼ 3/21/2005
	OTHER		▼

A — SPLIT SPOON E — AUGER CUTTINGS
B — ROCK CORE
C — SHELBY TUBE
D — SONIC

BOWSER MORNER

BORING No. C-1-05

REPORT No. 133873 SHEET 3 OF 3

DEPTH, FT	SAMPLE NO.	DEPTH OF SAMPLE, FT FROM	DEPTH OF SAMPLE, FT TO	BLOWS ON SAMPLER PER 6 IN INTERVAL	DEPTH OF STRATUM, FT	GRAPHICS	CLASSIFICATION OF MATERIAL	SPT "N" OR RECOVERY
							Major Component: Gravel, Sand, Silt, Clay — Minor Component Term: Trace 1-10%, Some 11-35%, And 36-50%	
51								
52								
53								
54								
55					55.5			
56							Gray silty Clay, some sand, trace cobbles	
57								
58								
59					59.0			

BOB 59.0'

		DEPTH	DATE
GROUND WATER OBSERVATIONS	INITIAL		▽ 3/21/2005
	AT COMPLETION		▼ 3/21/2005
	OTHER		▼

A — SPLIT SPOON E — AUGER CUTTINGS
B — ROCK CORE
C — SHELBY TUBE
D — SONIC

BOWSER MORNER®

BORING No. C-2-05

BORING LOG

SHEET 1 OF 3

CLIENT Aggregate Industries
Chelsea, Michigan

PROJECT Sand and Gravel Exploration in Chelsea, MI

JOB No. 133873

LOCATION OF BORING :
As Directed

GROUND ELEV. _____ METHOD SONIC

DRILLING COMMENTS _____

DATE STARTED 3/21/2005

DATE ENDED 3/21/2005

DRILLERS JK, TW, SW

DEPTH, FT	SAMPLE NO.	DEPTH OF SAMPLE, FT FROM	DEPTH OF SAMPLE, FT TO	BLOWS ON SAMPLER PER 6" INTERVAL	DEPTH OF STRATUM, FT	GRAPHICS	CLASSIFICATION OF MATERIAL	SPT "N" OR RECOVERY
1							Brown Sand and gravel	
9					9.0		(Cobbles in Bit)	
19					19.0		Brown Sand and gravel w/cobbles	

Major Component: Gravel, Sand, Silt, Clay
Minor Component Term: Trace 1-10%, Some 11-35%, And 36-50%

		DEPTH	DATE
GROUND WATER OBSERVATIONS	INITIAL		3/21/2005
	AT COMPLETION		3/21/2005
	OTHER		

A — SPLIT SPOON E — AUGER CUTTINGS
B — ROCK CORE
C — SHELBY TUBE
D — SONIC

BOWSER MORNER®

BORING No. C-2-05

REPORT No. 133873 SHEET 2 OF 3

DEPTH, FT	SAMPLE NO.	DEPTH OF SAMPLE, FT FROM	DEPTH OF SAMPLE, FT TO	BLOWS ON SAMPLER PER 6 IN INTERVAL	DEPTH OF STRATUM, FT	GRAPHICS	CLASSIFICATION OF MATERIAL	SPT "N" OR RECOVERY
							Major Component: Gravel, Sand, Silt, Clay — Minor Component Term: Trace 1-10%, Some 11-35%, And 36-50%	
22								
23								
24								
25								
26								
27								
28								
29								
30								
31								
32								
33								
34								
35								
36								
37								
38								
39								
40								
41								
42								
43								
44								
45								
46								
47								
48								
49								
50								

		DEPTH	DATE
GROUND WATER OBSERVATIONS	INITIAL		▽ 3/21/2005
	AT COMPLETION		▼ 3/21/2005
	OTHER		▼

A — SPLIT SPOON E — AUGER CUTTINGS
B — ROCK CORE
C — SHELBY TUBE
D — SONIC

BOWSER MORNER®

BORING No. C-2-05

REPORT No. 133873 SHEET 3 OF 3

DEPTH, FT	SAMPLE NO.	DEPTH OF SAMPLE, FT FROM	DEPTH OF SAMPLE, FT TO	BLOWS ON SAMPLER PER 6 IN INTERVAL	DEPTH OF STRATUM, FT	GRAPHICS	CLASSIFICATION OF MATERIAL	SPT "N" OR RECOVERY
							Major Component: Gravel, Sand, Silt, Clay Minor Component Term: Trace 1-10%, Some 11-35%, And 36-50%	
51								
52								
53								
54					54.0			
55							Gray silty Clay, some sand	
56								
57					57.0			
58							Brown gray Sandy silt	
59					59.0			

BOB 59

		DEPTH	DATE
GROUND WATER OBSERVATIONS	INITIAL		3/21/2005
	AT COMPLETION		3/21/2005
	OTHER		

A — SPLIT SPOON E — AUGER CUTTINGS
B — ROCK CORE
C — SHELBY TUBE
D — SONIC

BOWSER MORNER®

BORING No. C-3-05

BORING LOG

SHEET 1 OF 2

CLIENT Aggregate Industries
Chelsea, Michigan

PROJECT Sand and Gravel Exploration in Chelsea, MI

JOB No. 133873

LOCATION OF BORING :
As Directed

GROUND ELEV. _____ METHOD SONIC

DRILLING COMMENTS _____

DATE STARTED 3/21/2005

DATE ENDED 3/21/2005

DRILLERS JK, TW, SW

DEPTH, FT	SAMPLE NO.	DEPTH OF SAMPLE, FT FROM	DEPTH OF SAMPLE, FT TO	BLOWS ON SAMPLER PER 6" INTERVAL	DEPTH OF STRATUM, FT	GRAPHICS	CLASSIFICATION OF MATERIAL	SPT "N" OR RECOVERY
							Major Component: Gravel, Sand, Silt, Clay — Minor Component Term: Trace 1-10%, Some 11-35%, And 36-50%	
1					1.0		Brown Sand & Gravel	
2							Brown Sand & gravel w/cobbles	
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15					15.0		Brown Sandy Gravel	
16								
17								
18								
19								
20					20.0		Gray Sandy Silt, some gravel and trace of cobbles	

GROUND WATER OBSERVATIONS		DEPTH	DATE
	INITIAL	_____	▽ 3/21/2005
	AT COMPLETION	_____	▼ 3/21/2005
	OTHER	_____	▼ _____

A — SPLIT SPOON E — AUGER CUTTINGS
B — ROCK CORE
C — SHELBY TUBE
D — SONIC

BOWSER MORNER®

BORING No. C-3-05

REPORT No. 133873 SHEET 2 OF 2

DEPTH, FT	SAMPLE NO.	DEPTH OF SAMPLE, FT FROM	DEPTH OF SAMPLE, FT TO	BLOWS ON SAMPLER PER 6 IN INTERVAL	DEPTH OF STRATUM, FT	GRAPHICS	CLASSIFICATION OF MATERIAL	SPT "N" OR RECOVERY
							Major Component: Gravel, Sand, Silt, Clay Minor Component Term: Trace 1-10%, Some 11-35%, And 36-50%	
22								
23								
24								
25								
26								
27								
28								
29								
30								
31								
32								
33								
34								
35								
36								
37								
38					38.0		BOB 38	

		DEPTH	DATE
GROUND WATER OBSERVATIONS	INITIAL		▽ 3/21/2005
	AT COMPLETION		▽ 3/21/2005
	OTHER		▽

A — SPLIT SPOON E — AUGER CUTTINGS
B — ROCK CORE
C — SHELBY TUBE
D — SONIC

BOWSER MORNER®

BORING No. C-4-05

SHEET 1 OF 3

BORING LOG

CLIENT Aggregate Industries
Chelsea, Michigan

PROJECT Sand and Gravel Exploration in Chelsea, MI

JOB No. 133873

LOCATION OF BORING :
As Directed

GROUND ELEV. _____ METHOD SONIC

DRILLING COMMENTS _____

DATE STARTED 3/22/2005

DATE ENDED 3/23/2005

DRILLERS JK, TW, SW

DEPTH, FT	SAMPLE NO.	DEPTH OF SAMPLE, FT FROM	DEPTH OF SAMPLE, FT TO	BLOWS ON SAMPLER PER 6" INTERVAL	DEPTH OF STRATUM, FT	GRAPHICS	CLASSIFICATION OF MATERIAL	SPT "N" OR RECOVERY
							Major Component: Gravel, Sand, Silt, Clay — Minor Component Term: Trace 1-10%, Some 11-35%, And 36-50%	
1							Sand and gravel	
2					2.0		Brown Sand and gravel, trace of cobbles	
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16					16.0		▽ Brown Sandy gravel (wet)	
17								
18								
19								
20								
					21.0			

		DEPTH		DATE
GROUND WATER OBSERVATIONS	INITIAL	16.0	▽	3/22/2005
	AT COMPLETION		▽	3/23/2005
	OTHER	T	▽	N

A — SPLIT SPOON E — AUGER CUTTINGS
B — ROCK CORE
C — SHELBY TUBE
D — SONIC

BOWSER MORNER®

BORING No. C-4-05

REPORT No. 133873 SHEET 2 OF 3

DEPTH, FT	SAMPLE NO.	DEPTH OF SAMPLE, FT FROM	DEPTH OF SAMPLE, FT TO	BLOWS ON SAMPLER PER 6 IN INTERVAL	DEPTH OF STRATUM, FT	GRAPHICS	CLASSIFICATION OF MATERIAL	SPT "N" OR RECOVERY
							Major Component: Gravel, Sand, Silt, Clay — Minor Component Term: Trace 1-10%, Some 11-35%, And 36-50%	
							Brown Sand and gravel	
22								
23								
24								
25								
26								
27								
28								
29								
30								
31								
32								
33								
34								
35								
36								
37								
38								
39								
40								
41								
42								
43								
44								
45								
46								
47								
48								
49								
50								

		DEPTH		DATE
GROUND WATER OBSERVATIONS	INITIAL	16.0	▽	3/22/2005
	AT COMPLETION		▼	3/23/2005
	OTHER	T	▼	N

A — SPLIT SPOON E — AUGER CUTTINGS
B — ROCK CORE
C — SHELBY TUBE
D — SONIC

BOWSER MORNER®

BORING No. C-4-05

REPORT No. 133873 SHEET 3 OF 3

DEPTH, FT	SAMPLE NO.	DEPTH OF SAMPLE, FT FROM	DEPTH OF SAMPLE, FT TO	BLOWS ON SAMPLER PER 6 IN INTERVAL	DEPTH OF STRATUM, FT	GRAPHICS	CLASSIFICATION OF MATERIAL	SPT "N" OR RECOVERY
51							Major Component: Gravel, Sand, Silt, Clay. Minor Component Term: Trace 1-10%, Some 11-35%, And 36-50%	
52								
53								
54								
55								
56								
57								
58								
59					59.0		Brown gray silty Sand	
60								
61								
62								
63								
64								
65								
66								
67								
68								
69								
70								
71					71.0		Gray silty Clay, some sand	
72								
73								
74								
75								
76								
77								
78								
79					79.0			

BOB 79.0

		DEPTH		DATE
GROUND WATER OBSERVATIONS	INITIAL	16.0	▽	3/22/2005
	AT COMPLETION		▽	3/23/2005
	OTHER	T	▽	N

A — SPLIT SPOON E — AUGER CUTTINGS
B — ROCK CORE
C — SHELBY TUBE
D — SONIC

BOWSER MORNER®

BORING No. C-5-05

SHEET 1 OF 2

BORING LOG

CLIENT Aggregate Industries
Chelsea, Michigan

PROJECT Sand and Gravel Exploration in Chelsea, MI

JOB No. 133873

LOCATION OF BORING :
As Directed

GROUND ELEV. _____ METHOD SONIC

DRILLING COMMENTS _____

DATE STARTED 3/23/2005

DATE ENDED 3/23/2005

DRILLERS JK, TW, SW

DEPTH, FT	SAMPLE NO.	DEPTH OF SAMPLE, FT FROM	DEPTH OF SAMPLE, FT TO	BLOWS ON SAMPLER PER 6" INTERVAL	DEPTH OF STRATUM, FT	GRAPHICS	CLASSIFICATION OF MATERIAL	SPT "N" OR RECOVERY
					1.0		Sand and Gravel	
1							Brown Sand and gravel, trace of cobbles	
2								
3								
4								
5								
6								
7								
8								
9								
10					10.0		Brown sandy Gravel	
11								
12					12.5		Brown sand Silt	
13					13.5	▽	Brown fine Sand (wet)	
14								
15								
16								
17								
18								
19								
20								

Major Component: Gravel, Sand, Silt, Clay
Minor Component Term: Trace 1-10%, Some 11-35%, And 36-50%

		DEPTH	DATE	
GROUND WATER OBSERVATIONS	INITIAL	13.5	▽ 3/23/2005	A — SPLIT SPOON E — AUGER CUTTINGS
	AT COMPLETION		▽ 3/23/2005	B — ROCK CORE
	OTHER	T	▽ N	C — SHELBY TUBE
				D — SONIC

BOWSER MORNER®

BORING No. C-5-05

REPORT No. 133873 SHEET 2 OF 2

DEPTH, FT	SAMPLE NO.	DEPTH OF SAMPLE, FT FROM	DEPTH OF SAMPLE, FT TO	BLOWS ON SAMPLER PER 6 IN INTERVAL	DEPTH OF STRATUM, FT	GRAPHICS	CLASSIFICATION OF MATERIAL	SPT "N" OR RECOVERY
							Major Component: Gravel, Sand, Silt, Clay — Minor Component Term: Trace 1-10%, Some 11-35%, And 36-50%	
22								
23								
24								
25								
26								
27								
28								
29								
30								
31								
32								
33					33.0		Gray Sand and gravel with silty	
34								
35								
36								
37					37.0		Gray sandy Clay with gravel	
38								
39					39.0		BOB 39.0'	

		DEPTH		DATE
GROUND WATER OBSERVATIONS	INITIAL	13.5	▽	3/23/2005
	AT COMPLETION		▼	3/23/2005
	OTHER	T	⧗	N

A — SPLIT SPOON E — AUGER CUTTINGS
B — ROCK CORE
C — SHELBY TUBE
D — SONIC

BOWSER MORNER®

BORING No. C-6-05

SHEET 1 OF 3

BORING LOG

CLIENT Aggregate Industries
Chelsea, Michigan

PROJECT Sand and Gravel Exploration in Chelsea, MI

JOB No. 133873

LOCATION OF BORING :
As Directed

GROUND ELEV. _____ METHOD SONIC

DRILLING COMMENTS
Sampled from 2' - 75'

DATE STARTED 3/23/2005

DATE ENDED 3/23/2005

DRILLERS JK, TW, SW

DEPTH, FT	SAMPLE NO.	DEPTH OF SAMPLE, FT FROM	DEPTH OF SAMPLE, FT TO	BLOWS ON SAMPLER PER 6" INTERVAL	DEPTH OF STRATUM, FT	GRAPHICS	CLASSIFICATION OF MATERIAL	SPT "N" OR RECOVERY
1							Topsoil (moist)	
2								
3								
4					4.0			
5							Browns sand, some gravel (damp)	
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17					17.0		Brown Sand with gravel, some gravel	
18								
19								
20								

Major Component: Gravel, Sand, Silt, Clay

Minor Component Term: Trace 1-10%, Some 11-35%, And 36-50%

		DEPTH	DATE
GROUND WATER OBSERVATIONS	INITIAL	59.0	3/23/2005
	AT COMPLETION		3/23/2005
	OTHER	T	N

A — SPLIT SPOON E — AUGER CUTTINGS
B — ROCK CORE
C — SHELBY TUBE
D — SONIC

BOWSER MORNER®

BORING No. C-6-05

REPORT No. 133873 SHEET 2 OF 3

DEPTH, FT	SAMPLE NO.	DEPTH OF SAMPLE, FT FROM	DEPTH OF SAMPLE, FT TO	BLOWS ON SAMPLER PER 6 IN INTERVAL	DEPTH OF STRATUM, FT	GRAPHICS	CLASSIFICATION OF MATERIAL	SPT "N" OR RECOVERY
22							Major Component: Gravel, Sand, Silt, Clay — Minor Component Term: Trace 1-10%, Some 11-35%, And 36-50%	
23								
24								
25								
26								
27								
28								
29								
30								
31								
32								
33								
34								
35								
36								
37								
38					38.0		Gray Clay with gravel	
39								
40								
41								
42								
43								
44								
45					45.0		Brown silty Sand with gravel	
46								
47								
48								
49								
50								

		DEPTH	DATE
GROUND WATER OBSERVATIONS	INITIAL	59.0	▽ 3/23/2005
	AT COMPLETION		▽ 3/23/2005
	OTHER	T	▽ N

A — SPLIT SPOON E — AUGER CUTTINGS
B — ROCK CORE
C — SHELBY TUBE
D — SONIC

BOWSER MORNER®

BORING No. C-6-05

REPORT No. 133873 SHEET 3 OF 3

DEPTH, FT	SAMPLE NO.	DEPTH OF SAMPLE, FT FROM	DEPTH OF SAMPLE, FT TO	BLOWS ON SAMPLER PER 6 IN INTERVAL	DEPTH OF STRATUM, FT	GRAPHICS	CLASSIFICATION OF MATERIAL	SPT "N" OR RECOVERY
51								
52								
53								
54								
55								
56								
57								
58								
59							▽	
60								
61								
62								
63								
64								
65								
66								
67								
68								
69								
70								
71								
72								
73								
74								
75								
76								
77					77.0			

Major Component: Gravel, Sand, Silt, Clay

Minor Component Term: Trace 1-10%, Some 11-35%, And 36-50%

BOB 77.0'

		DEPTH		DATE	
GROUND WATER OBSERVATIONS	INITIAL	59.0	▽	3/23/2005	A—SPLIT SPOON E—AUGER CUTTINGS
	AT COMPLETION		▽	3/23/2005	B—ROCK CORE
	OTHER	T	▽	N	C—SHELBY TUBE
					D—SONIC

BOWSER MORNER

BORING No. C-7-05

SHEET 1 OF 3

BORING LOG

CLIENT Aggregate Industries
Chelsea, Michigan

PROJECT Sand and Gravel Exploration in Chelsea, MI

JOB No. 133873

LOCATION OF BORING :
As Directed

GROUND ELEV. _____ METHOD SONIC

DRILLING COMMENTS
Sampled 5' - 60'

DATE STARTED 3/24/2005

DATE ENDED 3/24/2005

DRILLERS JK, TW, SW

DEPTH, FT	SAMPLE NO.	DEPTH OF SAMPLE, FT FROM	DEPTH OF SAMPLE, FT TO	BLOWS ON SAMPLER PER 6" INTERVAL	DEPTH OF STRATUM, FT	GRAPHICS	CLASSIFICATION OF MATERIAL	SPT "N" OR RECOVERY
							Major Component: Gravel, Sand, Silt, Clay — Minor Component Term: Trace 1-10%, Some 11-35%, And 36-50%	
1							Topsoil	
2								
3								
4					4.0			
5							Brown Sand, some gravel	
6								
7								
8					8.0			
9							Brown Sand with gravel, trace cobbles	
10								
11								
12								
13								
14								
15								
16								
17								
18					18.0			
19							Brown Sand and gravel	
20								

		DEPTH	DATE
GROUND WATER OBSERVATIONS	INITIAL		▽ 3/24/2005
	AT COMPLETION		▼ 3/24/2005
	OTHER		▼

A — SPLIT SPOON E — AUGER CUTTINGS
B — ROCK CORE
C — SHELBY TUBE
D — SONIC

BOWSER MORNER®

BORING No. C-7-05

REPORT No. 133873 SHEET 2 OF 3

DEPTH, FT	SAMPLE NO.	DEPTH OF SAMPLE, FT FROM	DEPTH OF SAMPLE, FT TO	BLOWS ON SAMPLER PER 6 IN INTERVAL	DEPTH OF STRATUM, FT	GRAPHICS	CLASSIFICATION OF MATERIAL	SPT "N" OR RECOVERY
22								
23								
24								
25								
26								
27								
28								
29								
30								
31								
32								
33								
34								
35								
36								
37								
38								
39								
40								
41								
42								
43								
44								
45								
46								
47								
48					48.0		Brown Sand, some gravel	
49								
50								

CLASSIFICATION OF MATERIAL

Major Component: Gravel, Sand, Silt, Clay

Minor Component Term: Trace 1-10%, Some 11-35%, And 36-50%

		DEPTH	DATE
GROUND WATER OBSERVATIONS	INITIAL		▽ 3/24/2005
	AT COMPLETION		▼ 3/24/2005
	OTHER		▼

A — SPLIT SPOON E — AUGER CUTTINGS
B — ROCK CORE
C — SHELBY TUBE
D — SONIC

BOWSER MORNER®

BORING No. C-7-05

REPORT No. 133873 SHEET 3 OF 3

DEPTH, FT	SAMPLE NO.	DEPTH OF SAMPLE, FT FROM	DEPTH OF SAMPLE, FT TO	BLOWS ON SAMPLER PER 6 IN INTERVAL	DEPTH OF STRATUM, FT	GRAPHICS	CLASSIFICATION OF MATERIAL	SPT "N" OR RECOVERY
51							Very fine sand, no gravel, 50'-59'	
52								
53								
54								
55								
56								
57								
58								
59								
60							Gray silty clay, 59' - 66'	
61								
62								
63								
64								
65								
66								
67							Fine tan sand 66' - 73'	
68								
69								
70								
71								
72								
73					73.5			
74							Gray silty clay with sand and gravel	
75					75.5		Gray sandy Silt	
76								
77					77.0			

BOB 77

Major Component: Gravel, Sand, Silt, Clay

Minor Component Term: Trace 1-10%, Some 11-35%, And 36-50%

		DEPTH	DATE
GROUND WATER OBSERVATIONS	INITIAL		3/24/2005
	AT COMPLETION		3/24/2005
	OTHER		

A — SPLIT SPOON E — AUGER CUTTINGS
B — ROCK CORE
C — SHELBY TUBE
D — SONIC

BOWSER MORNER®

BORING No. C-8-05

SHEET 1 OF 3

BORING LOG

CLIENT Aggregate Industries
Chelsea, Michigan

PROJECT Sand and Gravel Exploration in Chelsea, MI

JOB No. 133873

LOCATION OF BORING :
As Directed

GROUND ELEV. _____ METHOD SONIC

DRILLING COMMENTS
Sampled 5' - 75'

DATE STARTED 3/24/2005

DATE ENDED 3/24/2005

DRILLERS JK, TW, SW

DEPTH, FT	SAMPLE NO.	DEPTH OF SAMPLE, FT FROM	DEPTH OF SAMPLE, FT TO	BLOWS ON SAMPLER PER 6" INTERVAL	DEPTH OF STRATUM, FT	GRAPHICS	CLASSIFICATION OF MATERIAL	SPT "N" OR RECOVERY
							Topsoil	
4					4.0		Brown sand, trace of gravel	
14					14.0		Brown Sand with gravel	

Major Component: Gravel, Sand, Silt, Clay
Minor Component Term: Trace 1-10%, Some 11-35%, And 36-50%

		DEPTH	DATE
GROUND WATER OBSERVATIONS	INITIAL		3/24/2005
	AT COMPLETION		3/24/2005
	OTHER		

A — SPLIT SPOON E — AUGER CUTTINGS
B — ROCK CORE
C — SHELBY TUBE
D — SONIC

BOWSER MORNER

BORING No. C-8-05

REPORT No. 133873 SHEET 2 OF 3

DEPTH, FT	SAMPLE NO.	DEPTH OF SAMPLE, FT FROM	DEPTH OF SAMPLE, FT TO	BLOWS ON SAMPLER PER 6 IN INTERVAL	DEPTH OF STRATUM, FT	GRAPHICS	CLASSIFICATION OF MATERIAL	SPT "N" OR RECOVERY
22							Major Component: Gravel, Sand, Silt, Clay Minor Component Term: Trace 1-10%, Some 11-35%, And 36-50%	
23								
24								
25								
26								
27								
28								
29								
30								
31								
32								
33								
34								
35					35.0		Brown Sand and gravel	
36								
37								
38								
39								
40								
41								
42								
43								
44								
45								
46								
47								
48								
49								
50								

		DEPTH	DATE
GROUND WATER OBSERVATIONS	INITIAL		▽ 3/24/2005
	AT COMPLETION		▼ 3/24/2005
	OTHER		▼

A — SPLIT SPOON E — AUGER CUTTINGS
B — ROCK CORE
C — SHELBY TUBE
D — SONIC

BOWSER MORNER

BORING No. C-8-05

REPORT No. 133873 SHEET 3 OF 3

DEPTH, FT	SAMPLE NO.	DEPTH OF SAMPLE, FT FROM	DEPTH OF SAMPLE, FT TO	BLOWS ON SAMPLER PER 6 IN INTERVAL	DEPTH OF STRATUM, FT	GRAPHICS	CLASSIFICATION OF MATERIAL	SPT "N" OR RECOVERY
51							Major Component: Gravel, Sand, Silt, Clay — Minor Component Term: Trace 1-10%, Some 11-35%, And 36-50%	
52								
53								
54								
55								
56								
57								
58								
59								
60								
61								
62								
63								
64								
65								
66								
67								
68								
69								
70								
71								
72								
73								
74								
75								
76								
77								
78								
79					79.0			

BOB 79

		DEPTH	DATE
GROUND WATER OBSERVATIONS	INITIAL		▽ 3/24/2005
	AT COMPLETION		▼ 3/24/2005
	OTHER		▼

A — SPLIT SPOON E — AUGER CUTTINGS
B — ROCK CORE
C — SHELBY TUBE
D — SONIC

BOWSER MORNER®

BORING No. C-9-05

BORING LOG

SHEET 1 OF 3

CLIENT Aggregate Industries
Chelsea, Michigan

PROJECT Sand and Gravel Exploration in Chelsea, MI

JOB No. 133873

LOCATION OF BORING :
As Directed

GROUND ELEV. _____ METHOD SONIC

DRILLING COMMENTS
Sampled 5' - 60'

DATE STARTED 3/24/2005

DATE ENDED 3/24/2005

DRILLERS JK, TW, SW

DEPTH, FT	SAMPLE NO.	DEPTH OF SAMPLE, FT FROM	DEPTH OF SAMPLE, FT TO	BLOWS ON SAMPLER PER 6" INTERVAL	DEPTH OF STRATUM, FT	GRAPHICS	CLASSIFICATION OF MATERIAL	SPT "N" OR RECOVERY
					1.0		Topsoil	
1							Brown Sand, trace of gravel	
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

Major Component: Gravel, Sand, Silt, Clay
Minor Component Term: Trace 1-10%, Some 11-35%, And 36-50%

GROUND WATER OBSERVATIONS		DEPTH	DATE
	INITIAL	_____	3/24/2005
	AT COMPLETION	_____	3/24/2005
	OTHER	_____	_____

A — SPLIT SPOON E — AUGER CUTTINGS
B — ROCK CORE
C — SHELBY TUBE
D — SONIC

BOWSER MORNER

BORING No. C-9-05

REPORT No. 133873 SHEET 2 OF 3

DEPTH, FT	SAMPLE NO.	DEPTH OF SAMPLE, FT FROM	DEPTH OF SAMPLE, FT TO	BLOWS ON SAMPLER PER 6 IN INTERVAL	DEPTH OF STRATUM, FT	GRAPHICS	CLASSIFICATION OF MATERIAL	SPT "N" OR RECOVERY
22							Major Component: Gravel, Sand, Silt, Clay — Minor Component Term: Trace 1-10%, Some 11-35%, And 36-50%	
23								
24								
25								
26								
27								
28								
29								
30								
31								
32								
33								
34								
35								
36								
37								
38								
39								
40					40.0			
41							Brown sand with gravel	
42								
43								
44								
45								
46								
47								
48								
49								
50								

		DEPTH	DATE
GROUND WATER OBSERVATIONS	INITIAL		▽ 3/24/2005
	AT COMPLETION		▽ 3/24/2005
	OTHER		▽

A — SPLIT SPOON E — AUGER CUTTINGS
B — ROCK CORE
C — SHELBY TUBE
D — SONIC

BOWSER MORNER

BORING No. C-9-05

REPORT No. 133873 SHEET 3 OF 3

DEPTH, FT	SAMPLE NO.	DEPTH OF SAMPLE, FT FROM	DEPTH OF SAMPLE, FT TO	BLOWS ON SAMPLER PER 6 IN INTERVAL	DEPTH OF STRATUM, FT	GRAPHICS	CLASSIFICATION OF MATERIAL	SPT "N" OR RECOVERY
51							Major Component: Gravel, Sand, Silt, Clay — Minor Component Term: Trace 1-10%, Some 11-35%, And 36-50%	
52								
53								
54								
55								
56								
57								
58								
59								
60								
61								
62								
63								
64								
65					65.0		Gray Clay with silt and gravel	
66								
67								
68								
69								
70					70.5		Brown Sand some gravel	
71								
72								
73								
74								
75								
76								
77								
78					78.0			

BOB 78.0

		DEPTH	DATE
GROUND WATER OBSERVATIONS	INITIAL		▽ 3/24/2005
	AT COMPLETION		▼ 3/24/2005
	OTHER		▼

A — SPLIT SPOON E — AUGER CUTTINGS
B — ROCK CORE
C — SHELBY TUBE
D — SONIC

BOWSER MORNER®