Project Name : Job Number
MACTEC
SCE&G COL : 6234-06-3534

SOIL LOG - Boring No. B-227

Type and Diameter of Boring: Mud Rotary / 3 7/8 inch	Boring Location: Adjacent to Power Block		Total Depth: 54.5 feet
Drilling Contractor and Rig: Gregg/Smith/311025 / CME 55	Elevation at Boring: 425.1 feet	Ground Water Depth	Depth to Bedrock
Sampling Method: Standard	Sample Driving Hammer/Drop: 140 lbs / 30 inches	No. of Samples: 15	Date Started: 4/13/06
	Borehole Inclination: 0	Logged by: J. Harmon	Date Completed: 4/13/06

Reviewed by / Date: M. Cooke 4/14/06
Reviewed by / Date: Clay Sama 12/1/06

Depth (feet)	Sample	Sample Type & No.	Uncorrected Blows/6 inches	Recovery (inches)	Water Content	Grain Size	Atterberg Limits	Lithology	Soil Type (USCS)	Lithology	Remarks
0-1		SPT 1	9 11 5	11/18					SM	SAND silty (SM); olive gray (5 Y 3/2); moist; medium dense; fine sand, ~20% silt, some rock fragment; RESIDUUM	
2-3		SPT 2	7 7 9	16/18					ML	SILT sandy (ML); moderate reddish brown (10 R 4/6); moist; very stiff; fine sand ~15%; low plasticity; RESIDUUM	Residuum
4-5		SPT 3	9 9 9	12/18					SM	SAND silty (SM); pale reddish brown (10 R 5/4); moist; medium dense; fine sand; ~20% silt. SAPROLITE	First saprolitic sample
6-7		SPT 4	4 5 6	0.1/18					ML	SILT sandy (ML); pale reddish brown (10 R 5/4); moist; stiff; low plasticity; fine sand; ~20% sand; small roots; large rock; SAPROLITE	Rock block sampler
8-9		SPT 5	5 7 7	12/18					SM	SAND silty (SM); moderate yellowish brown (10 YR 5/4); moist; medium dense; fine sand ~30% fines; SAPROLITE	
10-11		SPT 6	5 8 12	12/18							
12-13		SPT 7	3 2 4	8/18					ML	SILT sandy (ML); pale reddish brown (10 R 5/4); moist; medium stiff; ~10% fine sand; low plasticity; RESIDUUM	Lack saprolitic structure
14-15											
16-17									SM	SAND silty (SM); dark yellowish orange (10 YR 6/6); moist; medium dense; ~45% silt; SAPROLITE	Saprolitic structure reappears
18-19		SPT 8	5 6 11	12/18							
20-21									ML	SILT sandy (ML); moderate yellowish brown (10 YR 5/4); moist; very stiff; fine sand 30%; low plasticity; micaceous; SAPROLITE	
22-23		SPT 9	8 9 9	8/18							
24-25											
26-27											
28-29		SPT 10	7 9 12	12/18						SAA; ~40% sand	
30-31											
32-33									SM	SAND silty (SM); dark yellowish brown (10 YR 6/6); moist; medium dense; 30% silt; micaceous; SAPROLITE	
34-35		SPT 11	11 13 16	12/18							
36-37									ML	SILT sandy (ML); dark yellowish brown (10 YR 4/2); moist; very stiff; low; ~55% fine sand; low plasticity; micaceous; SAPROLITE	
38-39		SPT 12	9 11 16	14/18							
40											

Project Name : Job Number

MACTEC

SCE&G COL : 6234-06-3534

SOIL LOG - Boring No. B-227

Depth (feet)	Sample	Sample Type & No.	Uncorrected Blows/6 inches	Recovery (inches)	Water Content	Grain Size	Atterberg Limits	Lithology	Soil Type (USCS)	Lithology	Remarks
40										SILT sandy (ML); dark yellowish brown (10 YR 4/2); moist; very stiff; low; ~55% fine sand; low plasticity; micaceous; SAPROLITE *(Continued from previous page)*	
44		SPT 13	11 13 17	16/18						SILT sandy (ML); moderate yellowish brown (10 YR 5/4)	
49		SPT 14	11 12 20	14/18						SAA; moderate brown (5 YR 4/4), 60% fine sand; very micaceous; SAPROLITE	
52									ML	SILT sandy (ML); dark yellowish brown (10 YR 4/2); moist; very stiff; fine sand 70% silt; low plasticity; very micaceous; PARTIALLY WEATHERED ROCK	Partially weathered rock
54		SPT 15	17 50/5	12/11						BORING TERMINATED AT 54.5 ft.	End of drilling 4/13/06, 4/14/06 No groundwater encountered

Project Name : Job Number MACTEC SCE&G COL : 6234-06-3534			**ROCK LOG - Boring No. B-227**
Type and Diameter of Boring Mud Rotary / 3 7/8 inch	Boring Location Adjacent to Power Block		Total Depth 54.5 feet
Drilling Contractor and Rig Gregg/Smith/311025 / CME 55	Elevation at Boring 425.1 feet	Ground Water Depth	Depth to Bedrock
Casing Size and Depth	Length of Core Barrel and Bit	No. of Core Boxes	Date Started 4/13/06
	Borehole Inclination 0	Logged by J. Harmon	Date Completed 4/13/06

Reviewed by / Date M. Cooke 4/14/06

Depth (feet)	Run No.	Recovery / Cut	% RQD	Weathering	Strength	In-Situ Testing	Lithology	Lithology	Remarks
0								SAND silty (SM); olive gray (5 Y 3/2); moist; medium dense; fine sand, ~20% silt, some rock fragment; RESIDUUM	
2								SILT sandy (ML); moderate reddish brown (10 R 4/6); moist; very stiff; fine sand ~15%; low plasticity; RESIDUUM	Residuum
4								SAND silty (SM); pale reddish brown (10 R 5/4); moist; medium dense; fine sand; ~20% silt. SAPROLITE	First saprolitic sample
6								SILT sandy (ML); pale reddish brown (10 R 5/4); moist; stiff; low plasticity; fine sand; ~20% sand; small roots; large rock; SAPROLITE	Rock block sampler
8								SAND silty (SM); moderate yellowish brown (10 YR 5/4); moist; medium dense; fine sand ~30% fines; SAPROLITE	
13								SILT sandy (ML); pale reddish brown (10 R 5/4); moist; medium stiff; ~10% fine sand; low plasticity; RESIDUUM	Lack saprolitic structure
17								SAND silty (SM); dark yellowish orange (10 YR 6/6); moist; medium dense; ~45% silt; SAPROLITE	Saprolitic structure reappears
22								SILT sandy (ML); moderate yellowish brown (10 YR 5/4); moist; very stiff; fine sand 30%; low plasticity; micaceous; SAPROLITE	
29								SAA; ~40% sand	
32								SAND silty (SM); dark yellowish brown (10 YR 6/6); moist; medium dense; 30% silt; micaceous; SAPROLITE	
37								SILT sandy (ML); dark yellowish brown (10 YR 4/2); moist; very stiff; low; ~55% fine sand; low plasticity; micaceous; SAPROLITE	
40									

Project Name : Job Number
MACTEC
SCE&G COL : 6234-06-3534

ROCK LOG - Boring No. B-227

Depth (feet)	Run No.	Recovery / Cut	% RQD	Weathering	Strength	In-Situ Testing	Lithology	Lithology	Remarks
40								SILT sandy (ML); moderate yellowish brown (10 YR 5/4)	
41									
42									
43									
44									
45									
46									
47									
48									
49								SAA; moderate brown (5 YR 4/4), 60% fine sand; very micaceous; SAPROLITE	
50									
51									
52									Partially weathered rock
53								SILT sandy (ML); dark yellowish brown (10 YR 4/2); moist; very stiff; fine sand 70% silt; low plasticity; very micaceous; PARTIALLY WEATHERED ROCK	
54								BORING TERMINATED AT 54.5 ft.	
55									End of drilling 4/13/06, 4/14/06
56									No groundwater encountered
57									
58									
59									
60									
61									
62									
63									
64									
65									
66									
67									
68									
69									
70									
71									
72									
73									
74									
75									
76									
77									
78									
79									
80									

Project Name : Job Number
MACTEC
SCE&G COL : 6234-06-3534

SOIL LOG - Boring No. B-228

Type and Diameter of Boring: Mud Rotary / 3 7/8 inch/NQ	Boring Location: Adjacent to Power Block		Total Depth: 85.1 feet
Drilling Contractor and Rig: MACTEC/Gibson/285584 / CME 45	Elevation at Boring: 419.2 feet	Ground Water Depth: 13 feet	Depth to Bedrock: 55.5 feet
Sampling Method: Standard	Sample Driving Hammer/Drop: 140 lbs / 30 inches	No. of Samples: 16	Date Started: 5/8/06
	Borehole Inclination: 0	Logged by: C. Gaskins	Date Completed: 5/9/06

Reviewed by / Date: M. Cooke 5/15/06
Reviewed by / Date: Clay Sams 12/1/06

Depth (feet)	Sample	Sample Type & No.	Uncorrected Blows/6 inches	Recovery (inches)	Water Content	Grain Size	Atterberg Limits	Lithology	Soil Type (USCS)	Lithology	Remarks
0-3		SPT 1	3 6 8	14/18					ML	SILT sandy (ML); red (10 R 4/8); damp; stiff; 75% silt, 25% sand; low plasticity; contains small roots; RESIDUUM	Top of residuum at 0.3 ft. (4 inch top soil)
		SPT 2	3 9 13	18/18						SAA; except moist; very stiff; no roots	
4-6		SPT 3	2 6 7	9/18					ML	SILT sandy (ML); red (2.5 YR 4/8); moist; stiff; 65% silt, 35% sand; low plasticity; RESIDUUM	
6-8		SPT 4	2 4 7	18/18							
8-10		SPT 5	2 7 10	18/18						SAA; except (2.5 YR 4/6); very stiff; 70% silt, 30% sand; very micaceous	
10-12		SPT 6	4 4 7	14/18						SAA; except (2.5 YR 5/6)	
12-14		SPT 7	6 8 8	15/18					ML	SILT sandy (ML); strong brown (7.5 YR 5/6); moist; very stiff; 55% silt, 45% sand; micaceous; low plasticity; SAPROLITE	Top of saprolite at 13 ft.
14-18											
18-20		SPT 8	4 9 10	16/18						SAA; dark yellowish brown (10 YR 4/6)	
20-24											
24-26		SPT 9	5 8 9	18/18					ML	SILT sandy (ML); dark yellowish brown (10 YR 3/6); moist; very stiff; 50% silt, 50% sand; low to non plastic; micaceous; SAPROLITE	
26-28											
28-30		SPT 10	3 6 8	16/18						SAA; except (10 YR 4/6); stiff	
30-34											
34-36		SPT 11	5 5 8	16/18						SAA	
36-38											
38-40		SPT 12	5 5 8	12/18						SAA; except yellowish brown (10 YR 5/6)	

Project Name : Job Number

MACTEC

SCE&G COL : 6234-06-3534

SOIL LOG - Boring No. B-228

Depth (feet)	Sample	Sample Type & No.	Uncorrected Blows/6 inches	Recovery (inches)	Water Content	Grain Size	Atterberg Limits	Lithology	Soil Type (USCS)	Lithology	Remarks
40										SILT sandy (ML); dark yellowish brown (10 YR 3/6); moist; very stiff; 50% silt, 50% sand; low to non plastic; micaceous; SAPROLITE *(Continued from previous page)*	
44		SPT 13	4 5 8	14/18						SAA; except yellowish red (5 YR 4/6)	
47									SM	SAND; silty (SM); brown (10 YR 5/3); moist; medium dense; 60% sand, 40% silt; poorly graded; slightly micaceous; migmatic texture; SAPROLITE	
49		SPT 14	4 6 8	0/18							
54		SPT 15	4 8 9	16/18						No sample recovery description based on SPT from 48.5 to 50 ft	
55		SPT 16	50/1	0/1					SM	PARTIALLY WEATHERED ROCK BORING TERMINATED AT 55.5 ft. see rock log	End day 5/8/06 at 17:30; water level at 0 ft Begin day 5/9/06, 8:30; water level at 13 ft

Project Name : Job Number
MACTEC
SCE&G COL : 6234-06-3534

ROCK LOG - Boring No. B-228

Type and Diameter of Boring: Mud Rotary / 3 7/8 inch/NQ	Boring Location: Adjacent to Power Block		Total Depth: 85.1 feet
Drilling Contractor and Rig: MACTEC/Gibson/285584 / CME 45	Elevation at Boring: 419.2 feet	Ground Water Depth: 13 feet	Depth to Bedrock: 55.5 feet
Casing Size and Depth: 3.5 / 55.5 feet	Length of Core Barrel and Bit: 5 feet / 8 feet	No. of Core Boxes: 2	Date Started: 5/8/06
	Borehole Inclination: 0	Logged by: C. Gaskins	Date Completed: 5/9/06

Reviewed by / Date: M. Cooke 5/15/06

Depth (feet)	Run No.	Recovery / Cut	% RQD	Weathering	Strength	In-Situ Testing	Lithology	Lithology	Remarks
56	1	0.6 / 1.5	0	CW to MW	R0 to R2			HORNBLENDE GNEISS; black to white (10 YR 2/1 to 8/1); fine grained; quartz, hornblende, feldspar and biotite	Refusal to rotary wash drilling at 55.5 ft.
57									
58									
59	2	4.9 / 5.0	72	CW to MW	R0 to R2				
60								3 inch thick pegmatite dike	
61									
62									
63									
64	3	4.6 / 5.0	67	CW to MW	R0 to R2			~1 ft thick highly weathered zone of granodiorite at 64 ft.	
65									
66									
67								Zone of Granodiorite from 66.7 to 68.2 ft.	
68									
69	4	4.3 / 5.0	65	CW to MW	R0 to R2				
70								28 inch thick completely weathered zone	
71									
72									Top of sound rock
73									
74	5	5.0 / 5.0	100	F	R3				
75									
76									
77								Zone of biotite gneiss from 77.1 to 77.7 ft.	
78									
79	6	5.0 / 5.0	100	F	R3				
80									
81									
82								Zone of biotite gneiss from 81.7 to 84.4 ft.	
83									
84	7	3.1 / 3.1	100	F	R3				
85								CORING TERMINATED AT 85.1 ft.	End of day 5/9/06; water level at 0 ft
86									
87									
88									
89									
90									
91									
92									
93									
94									
95									

Project Name : Job Number
MACTEC
SCE&G COL : 6234-06-3534

SOIL LOG - Boring No. B-229

Type and Diameter of Boring: Mud Rotary / 3 7/8 inch/NQ	Boring Location: Adjacent to Power Block		Total Depth: 85.7 feet
Drilling Contractor and Rig: MACTEC/Gibson/285584 / CME 45	Elevation at Boring: 423.2 feet	Ground Water Depth: 24.5 feet	Depth to Bedrock: 55.2 feet
Sampling Method: Standard	Sample Driving Hammer/Drop: 140 lbs / 30 inches	No. of Samples: 16	Date Started: 4/30/06
	Borehole Inclination: 0	Logged by: C. Gaskins	Date Completed: 5/2/06

Reviewed by / Date: M. Cooke 5/8/06
Reviewed by / Date: Clay Sams 12/1/06

Depth (feet)	Sample	Sample Type & No.	Uncorrected Blows/6 inches	Recovery (inches)	Water Content	Grain Size	Atterberg Limits	Lithology	Soil Type (USCS)	Lithology	Remarks
0-1		SPT 1	1 4 5	17/18					ML	SILT sandy (ML); yellowish red (5 R 4/6); moist; stiff; 85% silt, 15% sand; low plasticity; RESIDUUM	Top of residuum
2-3		SPT 2	7 7 6	12/18						SILT sandy (ML); red (10 YR 4/6); moist; stiff; 75% silt, 25% sand; low plasticity; RESIDUUM	
4-5		SPT 3	4 7 7	15/18							
6-7		SPT 4	2 4 7	15/18						SAA; except yellowish red (5 YR 4/6); micaceous	
8-9		SPT 5	10 6 8	18/18						SAA; very micaceous; 70% silt, 30% sand	
10-11		SPT 6	12 9 10	17/18						SAA	
12-13		SPT 7	16 14 12	17/18					ML	SILT sandy (ML); reddish brown (5 YR 4/4); moist; very stiff; 65% silt, 35% sand; very micaceous; low plasticity; SAPROLITE	Top of saprolite Lost tool in hole; offset 1.5 ft south and drill new hole with tricone bit to continue sampling.
14-15											
16-17		SPT 8	4 6 9	16/18						SILT sandy (ML); dark yellowish brown (10 YR 4/6); moist; very stiff; 50% silt, 50% sand; low plasticity; very micaceous; SAPROLITE	
18-19									▽		
20-21		SPT 9	2 3 8	15/18						SAA; except strong brown (7.5 YR 5/8)	
22-23									ML	SILT sandy (ML); strong brown (7.5 YR 5/8); moist; stiff; 70% silt, 30% sand; low plasticity; slightly micaceous. SAPROLITE	
24-25		SPT 10	3 6 9	15/18							
26-27		SPT 11	2 2 4	18/18						SAA; medium stiff; 80% silt, 20% sand	
28-29									ML	SAND silty (SM); yellowish red (5 YR 5/8); moist to wet; medium dense; 60% sand, 40% silt; SAPROLITE	
30-31		SPT 12	4 5 8	0/18						No sample recovery 38.5 to 40 ft, description based on SPT 43.5 to 45 ft	
32-33											
34-35											
36-37											
38-39											

Project Name : Job Number

MACTEC

SCE&G COL : 6234-06-3534

SOIL LOG - Boring No. B-229

Depth (feet)	Sample	Sample Type & No.	Uncorrected Blows/6 inches	Recovery (inches)	Water Content	Grain Size	Atterberg Limits	Lithology	Soil Type (USCS)	Lithology	Remarks
40										SAND silty (SM); yellowish red (5 YR 5/8); moist to wet; medium dense; 60% sand, 40% silt; SAPROLITE *(Continued from previous page)*	
44		SPT 13	4 4 8	18/18							
49		SPT 14	5 11 16	16/18						SAND silty (SM); dark grayish brown (10 YR 4/2); moist to wet; medium dense; 65% sand, 35% silt; micaceous; SAPROLITE	End of day 4/30/06; water at 0 ft Start day 5/1/06; water at 16 ft
54		SPT 15	20 13 19	2/18						SAND silty (SM); dark gray (10 YR 4/1); moist; dense; 85% sand, 15% silt; SAPROLITE	
55		SPT 16	50/1.5	0/1.5						PARTIALLY WEATHERED ROCK. No sample recovery, Refusal at 55.2, see rock log	

Project Name : Job Number
MACTEC
SCE&G COL : 6234-06-3534

ROCK LOG - Boring No. B-229

Type and Diameter of Boring: Mud Rotary / 3 7/8 inch/NQ	Boring Location: Adjacent to Power Block		Total Depth: 85.7 feet
Drilling Contractor and Rig: MACTEC/Gibson/285584 / CME 45	Elevation at Boring: 423.2 feet	Ground Water Depth: 24.5 feet	Depth to Bedrock: 55.2 feet
Casing Size and Depth: 3.5 / 55.2 feet	Length of Core Barrel and Bit	No. of Core Boxes	Date Started: 4/30/06
	Borehole Inclination: 0	Logged by: C. Gaskins	Date Completed: 5/2/06

Reviewed by / Date: M. Cooke 5/8/06

Depth (feet)	Run No.	Recovery / Cut	% RQD	Weathering	Strength	In-Situ Testing	Lithology	Lithology	Remarks
56	1	1.8 / 1.8	72	MW to HW	R2			MIGMATITE; black to white (10 YR 2/1 to 3/1); fine grained; quartz, feldspar, biotite CORING TERMINATED AT 85.7 ft. Highly weathered zone 57 to 58.8 ft	Top of partially weathered rock End of day 5/1/06, water at 20 ft. Begin day 5/2/06, water at 20.5 ft. Top of sound rock
57				RS to HW	R0 to R1				
58									
59	2	4.9 / 5.0	55						
60				SW to MW	R2 to R3				
61									
62									
63									
64	3	5.0 / 5.0	86	F to MW	R2 to R3				
65									
66									
67									
68									
69	4	5.0 / 5.0	89	F	R3				
70									
71									
72									
73									
74	5	4.7 / 4.7	100	F	R3				
75									
76									
77									
78									
79	6	5.0 / 5.0	94	F	R3				
80									
81									
82									
83									
84	7	4.0 / 4.0	100	F	R3				
85									
86									End day 5/2/06 water level at 24.5 ft Coring terminated
87									
88									
89									
90									
91									
92									
93									
94									
95									

Project Name : Job Number
MACTEC
SCE&G COL : 6234-06-3534

SOIL LOG - Boring No. B-230

Type and Diameter of Boring: Mud Rotary / 3 7/8 inch/NQ	Boring Location: Adjacent to Power Block		Total Depth: 85.25 feet
Drilling Contractor and Rig: Gregg/Burnett/311025 / CME 55	Elevation at Boring: 424.5 feet	Ground Water Depth: 4 feet	Depth to Bedrock: 39.25 feet
Sampling Method: Split Spoon	Sample Driving Hammer/Drop: 140 lbs / 30 inches	No. of Samples: 12	Date Started: 4/20/06
	Borehole Inclination: 0	Logged by: J. Harmon	Date Completed: 4/21/06

Reviewed by / Date: M. Cooke 4/30/06
Reviewed by / Date: Clay Sams 12/1/06

Depth (feet)	Sample	Sample Type & No.	Uncorrected Blows/6 inches	Recovery (inches)	Water Content	Grain Size	Atterberg Limits	Lithology	Soil Type (USCS)	Lithology	Remarks
0-3		SPT 1	2 4 8	18/18					SM	SAND silty (SM); red (2.5 YR 4/6); damp; medium dense; ~55% fine sand; RESIDUUM	Residuum
		SPT 2	5 10 12	12/18							
4-5		SPT 3	5 8 13	14/18					ML	SILT sandy (ML); red (2.5 YR 5/8); moist; very stiff; fine sand ~40%; low plasticity; RESIDUUM	
6-7		SPT 4	6 8 10	16/18						SILT sandy (ML); brown (7.5 YR 5/6); moist; very stiff; fine sand ~40%; low plasticity; micaceous; SAPROLITE	Top of Saprolite
8-9		SPT 5	5 9 10	15/18						SAA	
10-11		SPT 6	7 9 11	16/18						SAA; fine sand ~20%	
12-13		SPT 7	4 8 9	16/18						SAA; fine sand ~40%	
14-19		SPT 8	4 5 7	14/18						SAA; dark yellowish brown (10 YR 4/4); stiff; fine sand ~12%	
20-24		SPT 9	3 6 9	14/18						SAA; except very stiff	
25-29		SPT 10	5 7 9	14/18						SAA; dark yellowish brown (10 YR 4/6); fine sand ~30%	
30-34		SPT 11	3 6 9	14/18						SAA; yellowish brown (10 YR 5/4); fine sand ~20%	
35-39		SPT 12	4 50/3	9/9						**SILT** sandy (ML); dark yellowish brown (10 YR 4/4); moist; fine sand ~30%; micaceous; low plasticity; PARTIALLY WEATHERED ROCK BORING TERMINATED AT 39.25 ft, see rock log	Partially weathered rock
40											

Project Name : Job Number
MACTEC
SCE&G COL : 6234-06-3534

ROCK LOG - Boring No. B-230

Type and Diameter of Boring: Mud Rotary / 3 7/8 inch/NQ	Boring Location: Adjacent to Power Block		Total Depth: 85.25 feet
Drilling Contractor and Rig: Gregg/Burnett/311025 / CME 55	Elevation at Boring: 424.5 feet	Ground Water Depth: 4 feet	Depth to Bedrock: 39.25 feet
Casing Size and Depth: 3.25 / 39.25 feet	Length of Core Barrel and Bit: 5 feet	No. of Core Boxes: 3	Date Started: 4/20/06
	Borehole Inclination: 0	Logged by: J. Harmon	Date Completed: 4/21/06

Reviewed by / Date: M. Cooke 4/30/06

Depth (feet)	Run No.	Recovery / Cut	% RQD	Weathering	Strength	In-Situ Testing	Lithology	Lithology	Remarks
40				F	R4 to R5			QUARTZ DIORITE; bluish gray (Gley 2 6/10 B) and light bluish gray (Gley 2 8/1); fine to medium igneous texture	Refusal. Switched to rock coring End of 4/20/06, water at 1 ft.
41				MW					Top of moderately weathered rock
42	1	5.0/5.0	90		R2 to R3				
43				F					Top of sound rock
44					R4 to R5				
45									
46									
47	2	5.0/5.0	100	F	R4				
48									
49									
50									
51									
52	3	5.0/5.0	100	F	R4				
53									
54									
55									
56									
57	4	5.0/5.0	94	F	R4			Quartz dike	
58								Quartz dike	
59									
60									
61									
62	5	5.0/5.0	100	F	R4				
63									
64									
65									
66									
67	6	5.0/5.0	100	F	R4				
68									
69									
70									
71								Quartz dike	
72	7	5.0/5.0	100	F	R4			Quartz dike	
73								Quartz dike	
74									
75								MIGMATITE GNEISS with schist, granodiorite, and quartz diorite; bluish gray and light bluish gray (Gley 2 6/10 B) and (Gley 2 8/1); flowing texture	
76									
77	8	5.0/5.0	100	F	R4				
78									
79									

Project Name : Job Number

MACTEC

SCE&G COL : 6234-06-3534

ROCK LOG - Boring No. B-230

Depth (feet)	Run No.	Recovery / Cut	% RQD	Weathering	Strength	In-Situ Testing	Lithology	Lithology	Remarks
80									
81									
82	9	5.0 / 5.0	100	F	R4 to R5				
83									
84									
85	10	1.0 / 1.0	100	F	R4 to R5			QUARTZ DIORITE; bluish gray (Gley 2 6/10 B) and light bluish gray (Gley 2 8/1); igneous texture. CORING TERMINATED AT 85 ft.	Coring terminated 4/21/06, water at 4 ft.
86									
87									
88									
89									
90									
91									
92									
93									
94									
95									
96									
97									
98									
99									
100									
101									
102									
103									
104									
105									
106									
107									
108									
109									
110									
111									
112									
113									
114									
115									
116									
117									
118									
119									

Project Name : Job Number
MACTEC
SCE&G COL : 6234-06-3534

SOIL LOG - Boring No. B-231

Type and Diameter of Boring: Mud Rotary / 3 7/8 inch/NQ	Boring Location: Adjacent to Power Block		Total Depth: 115 feet
Drilling Contractor and Rig: MACTEC/Skoglund/100 / D 50	Elevation at Boring: 428.4 feet	Ground Water Depth: 46 feet	Depth to Bedrock: 54.4 feet
Sampling Method: Standard	Sample Driving Hammer/Drop: 140 lbs / 30 inches	No. of Samples: 14	Date Started: 4/28/06
	Borehole Inclination: 0	Logged by: M. Harvey	Date Completed: 5/10/06

Reviewed by / Date: M. Cooke 5/14/06
Reviewed by / Date: Clay Scarce 12/1/06

Depth (feet)	Sample	Sample Type & No.	Uncorrected Blows/6 inches	Recovery (inches)	Water Content	Grain Size	Atterberg Limits	Lithology	Soil Type (USCS)	Lithology	Remarks
0-1		SPT 1	3 5 7	14/18					SM	SAND (SM); red (10 R 4/6); dry; medium dense; fine sand; silty	Residuum
1-2		SPT 2	8 10 12	14/18						SAA; red (2.5 YR 5/8 and 10 R 4/8)	
3-4		SPT 3	10 11 16	18/18						SAA; reddish yellow (7.5 YR 7/6)	
5-7		SPT 4	6 8 11	9/18						SAA; red (10 R 4/6) and lower 4 inch of recovery reddish yellow (5 YR 7/6)	
8-9		SPT 5	6 8 11	11/18					SM	SAND sitly (SM); reddish yellow (7.5 YR 6/6); dry; medium dense; foliated 10 to 18%. SAPROLITE	Saprolite at 8.5 to 10 ft.
10-12		SPT 6	8 11 15	11/18						SAA	
13-14		SPT 7	7 8 13	12/18						SAA	
18-19		SPT 8	7 10 14	9.5/18						SAA; brown (10 YR 5/3)	
20											End of day 4/28/06, no water Begin day 4/29/06 no water
22-24		SPT 9	10 13 17	12/18					SM	SAND (SM); brown to white (10 YR 5/6 to 10 YR 8/1); dry; dense; weathered feldspar; some micas; SAPROLITE	
28-29		SPT 10	13 14 21	12/18						SAA	
33-34		SPT 11	12 15 22	13/18						SAA; black to brown to pink and white (2.5/N, 5YR 5/8, 7.5 YR 5/6, 5 YR 8/1); dry; dense; medium to coarse; weathered feldspar and mica, manganese staining, iron staining, schist or gneiss; SAPROLITE	
38-39		SPT 12	11 14 21	12/18						SAA with more pink and pale red (10 R 8/4)	

Project Name : Job Number
MACTEC
SCE&G COL : 6234-06-3534

SOIL LOG - Boring No. B-231

Depth (feet)	Sample	Sample Type & No.	Uncorrected Blows/6 inches	Recovery (inches)	Water Content	Grain Size	Atterberg Limits	Lithology	Soil Type (USCS)	Lithology	Remarks
40										SAND (SM); brown to white (10 YR 5/6 to 10 YR 8/1); dry; dense; weathered feldspar; some micas; SAPROLITE *(Continued from previous page)*	
41											
42											
43											
44		SPT 13	11 15 24	13/18						SAA	
45											
46											
47											
48											
49		SPT 14	11 16 25	13/18						SAND (SM) white to brown with some black manganese staining (7.5 YR 5/4, 7.5 YR 8/1, 7.5 YR 2.5/1)	
50											
51										PARTIALLY WEATHERED ROCK; no sample recovery	Hard drilling
52										Tricone refusal at 53 ft, drilled casing to 54.4 ft, see rock log	
53											End of day 4/29/06
54											Begin day 4/30/06
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											
80											

Project Name : Job Number
MACTEC
SCE&G COL : 6234-06-3534

ROCK LOG - Boring No. B-231

Type and Diameter of Boring: Mud Rotary / 3 7/8 inch/NQ	Boring Location: Adjacent to Power Block		Total Depth: 115 feet
Drilling Contractor and Rig: MACTEC/Skoglund/100 / D 50	Elevation at Boring: 428.4 feet	Ground Water Depth: 46 feet	Depth to Bedrock: 54.4 feet
Casing Size and Depth: 3.5 / 54.9 feet	Length of Core Barrel and Bit	No. of Core Boxes	Date Started: 4/28/06
	Borehole Inclination: 0	Logged by: M. Harvey	Date Completed: 5/10/06

Reviewed by / Date: M. Cooke 5/14/06

Depth (feet)	Run No.	Recovery / Cut	% RQD	Weathering	Strength	In-Situ Testing	Lithology	Lithology	Remarks
55					R4			MIGMATITE; zones of biotite gneiss, granite, amphibolite, gneiss; gray (10 YR 5/1); foliation 17°	Top of sound rock
56	1	3.9 / 3.9	93	F	R5			54.8 to 55.5 ft Granite	
57								55.5 to 57 ft K-spar up to 1 cm and over, xenoliths of gneiss and amphibolite 2 inch	
58								GNEISS; gray (10 YR 5/1); horizontal flow banding; fine grained	
59								Aplite dike 2 inch thick	
60	2	4.3 / 4.3	82	F	R5			GRANITE; 5 inch; high angle contacts above and below	Granite/gneiss with 75 contact at top of core to 59.8 ft
61								GRANITE; 5 inch; high angle contacts above and below	
62								GNEISS; gray with amphibolite xenoliths, some pyrite	
63								GNEISS; gray with amphibolite xenoliths, some pyrite	High angle fractures in rock
64								GRANITE; grain size to 8 mm	
65								GNEISS AND AMPHIBOLITE	
66	3	7.4 / 7.4	100	F	R4			GRANITE with gneiss and amphibolite xenolith	
67								Amphibolite xenolith	
68								GRANITE; grain size up to 8 mm with gneiss xenoliths	
69								GRANITE; grain size up to 8 mm with gneiss xenoliths	End of day 4/30/06
70								4 inch gneiss xenolith	Begin day 4/31/06
71	4	2.8 / 2.8	85	F	R5			GRANITE	
72								Gneiss xenolith	
73	5	0.8 / 1.2	40	F	R4			GRANITE	
74								GNEISS; flow banding, gray and pink, higher K-spar content, healed high angle joints, quartz	End of day 4/31/06
75								72.4 to 73.6 ft, Granite	Begin day 5/2/06; water at 46 ft
76								Amphibolite xenolith	
77	6	6.0 / 6.0	98	F	R4			GNEISS; pink and gray	
78								SCHIST; flow banded; darker; amphibolite	
79								AMPHIBOLITE SCHIST; Pink band, K-spar in flow band 0.3 inch;	
80								GNEISS; gray, pink; flow banded foliation at 30 to 45	
81								Epidote in fracture	
82	7	5.0 / 5.0	100	F	R4			GRANITE; grain size 1 cm; high angle quartz vein	
83								GRANODIORITE	
84								AMPHIBOLITE SCHIST	
85								GRANODIORITE	
86								Gneiss 1 inch; Amphibolite schist; gneiss 2 inch	
87	8	5.0 / 5.0	100	F	R4			GRANODIORITE with 1/2 to 1 inch amphibolite xenoliths	
88								AMPHIBOLITE with granodiorite xenoliths; flow banded; gradational contact	
89								GRANODIORITE	
90									
91									
92	9	5.0 / 5.0	100	F	R4				
93								GRANITE PEGMATITE	Harder drilling
94									

Project Name : Job Number
MACTEC
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ROCK LOG - Boring No. B-231

Depth (feet)	Run No.	Recovery / Cut	% RQD	Weathering	Strength	In-Situ Testing	Lithology	Lithology	Remarks
95									End day 5/3/06 Begin day 5/8/06; water at 47.8 ft
96	10	3.4/3.4	89.5	F	R5			AMPHIBOLITE SCHIST Granodiorite 2 inch 45° GNEISS; plagioclase; quartz; biotite; foliated 62° GRANODIORITE GNEISS MIGMATITE	
97									
98									
99									
100									
101									
102	11	6.6/6.6	88	F	R4			QUARTZ DIORITE; black gray and white (Gley 1 8 to 2.5/N); medium grained; 10 to 15% mafics; some quartz veins. CORING TERMINATED AT 115 ft.	
103									
104									
105									
106									
107	12	5.0/5.0	100	F	R4				
108									
109									
110									
111									
112	13	5.0/5.0	100	F	R4				
113									
114									
115									Boring terminated 5/8/06
116									
117									
118									
119									
120									
121									
122									
123									
124									
125									
126									
127									
128									
129									
130									
131									
132									
133									
134									

Project Name : Job Number
MACTEC
SCE&G COL : 6234-06-3534

SOIL LOG - Boring No. B-232

Type and Diameter of Boring: Mud Rotary / 3 7/8 inch/NQ	Boring Location: Adjacent to Power Block		Total Depth: 55.4 feet
Drilling Contractor and Rig: MACTEC/Cain/100 / D 50	Elevation at Boring: 424 feet	Ground Water Depth	Depth to Bedrock: 35.4 feet
Sampling Method: Standard	Sample Driving Hammer/Drop: 140 lbs / 30 inches	No. of Samples: 11	Date Started: 7/25/06
	Borehole Inclination: 0	Logged by: M. Harvey	Date Completed: 7/27/06

Reviewed by / Date: M. Cooke 8/3/06
Reviewed by / Date: Clay Sama 12/31/06

Depth (feet)	Sample	Sample Type & No.	Uncorrected Blows/6 inches	Recovery (inches)	Water Content	Grain Size	Atterberg Limits	Lithology	Soil Type (USCS)	Lithology	Remarks
0–1		SPT 1	1 2 5	18/18					ML	SILT (ML); orange (7.5 YR 6/8); dry; medium stiff; mica	
1–2		SPT 2	3 5 9	12/18						SAA; stiff	
3–4		SPT 3	3 5 9	12/18						SILT (ML); orange/brown (7.5 YR 5.5/8); dry; stiff; with manganese staining; mica present	
6–7		SPT 4	3 5 7	11/18					ML	SILT sandy (ML); orange/brown (7.5 YR 5.5/8); dry; stiff with manganese staining; very fine sand; mica present	
9–10		SPT 5	3 4 6	12/18						SAA	
11–12		SPT 6	2 5 7	12/18						SAA; beige and brown (7.5 YR 7/4 to 7.5 YR 5/8)	
14–15		SPT 7	3 5 8	12/18						SAA	
18–19		SPT 8	4 7 9	12/18					SM	SAND silty (SM); yellowish and orange (10 YR 7/6, 7.5 YR 7/8); dry; medium dense; some manganese staining	
22–23		SPT 9	5 6 9	14/18					ML	SILT (ML); brown (10 YR 5/4); stiff; manganese staining; micacous; trace fine sand	
27–28		SPT 10	5 8 13	16/18					ML	SILT sandy (ML); brown (7.5 YR 5/6); dry; very stiff; some manganese staining; seam of medium sand 60°	
34–35		SPT 11	5 8 40	18					ML	SILT (ML); brown; (10 YR 5/8); dry; hard; foliated; manganese staining; mica present; PARTIALLY WEATHERED ROCK BORING TERMINATED at 35.4 ft, see rock log	

Project Name : Job Number
MACTEC
SCE&G COL : 6234-06-3534

ROCK LOG - Boring No. B-232

Type and Diameter of Boring: Mud Rotary / 3 7/8 inch/NQ	Boring Location: Adjacent to Power Block		Total Depth: 55.4 feet
Drilling Contractor and Rig: MACTEC/Cain/100 / D 50	Elevation at Boring: 424 feet	Ground Water Depth:	Depth to Bedrock: 35.4 feet
Casing Size and Depth: 3.5 / 36.2 feet	Length of Core Barrel and Bit: 13 feet	No. of Core Boxes: 1	Date Started: 7/25/06
	Borehole Inclination: 0	Logged by: M. Harvey	Date Completed: 7/27/06

Reviewed by / Date: M. Cooke 8/3/06

Depth (feet)	Run No.	Recovery / Cut	% RQD	Weathering	Strength	In-Situ Testing	Lithology	Lithology	Remarks
36-41	1	2.5 / 5.0	20	MW	R2			QUARTZ DIORITE; black, white and gray; fine grained; gravel Fracture zone 35.4 to 38.4 ft (Gley 2 5/1 to 10B)	Refusal on 7/25/06, see rock log
				SW	R3				
				HW	R1			Fracture zone 39.4 to 41 ft	
					R2				
41-45	2	5.0 / 5.0	86	F	R4			QUARTZ DIORITE; gray (2 Gley 5/1/10B); fine grained; epidote present	
46-50	3	5.0 / 5.0	97	F	R4				
50-55	4	5.0 / 5.0	99	F	R4			MIGMATITE Quartz dike 2 inch, 50°; migmatite highly deformed foliated 50° deformed diorite, chlorite present, hornblende gneiss QUARTZ DIORITE; medium grained HORNBLENDE GNEISS CORING TERMINATED at 55.4 ft	
56-75									Coring terminated 7/27/06

Project Name : Job Number
MACTEC
SCE&G COL : 6234-06-3534

SOIL LOG - Boring No. B-233

Type and Diameter of Boring: Mud Rotary / 3 7/8 inch/NQ	Boring Location: Adjacent to Power Block		Total Depth: 75 feet
Drilling Contractor and Rig: MACTEC/Akins/212393 / CME550	Elevation at Boring: 426.1 feet	Ground Water Depth: 37 feet	Depth to Bedrock: 37.4 feet
Sampling Method: Standard	Sample Driving Hammer/Drop: 140 lbs / 30 inches	No. of Samples: 11	Date Started: 4/13/06
	Borehole Inclination: 0	Logged by: M. Harvey	Date Completed: 4/18/06

Reviewed by / Date: M. Cooke 4/24/06
Reviewed by / Date: Clay Sams 12/1/06

Depth (feet)	Sample	Sample Type & No.	Uncorrected Blows/6 inches	Recovery (inches)	Water Content	Grain Size	Atterberg Limits	Lithology	Soil Type (USCS)	Lithology	Remarks
0–2		SPT 1	0 1 2	13/18					SM	SAND (SM); red (2.5 YR 5/8); dry; very loose; silty; fine	
2–4		SPT 2	3 3 3	9/18						SAA; orange (5 YR 5/8) and red; loose	
4–6		SPT 3	4 7 8	15/18					ML	SILT (ML); red and orange (10 R 4/6 and 5 YR 6/8); damp; medium stiff; trace mica	
6–8		SPT 4	4 4 7	14/18					SM	SAND (SM); dusky red, brown and white (10 R 3/6, 7.5 YR 5/8); moist to damp; medium dense; in 2 to 3 inch bands; silty; trace mica;	
8–10		SPT 5	8 13 19	16/18					GM	GRAVEL (GM); red (10 R 3/6), brown (1.7 YR 5/8), and gray; damp; dense; weathered granite or granodiorite; split spoon like a rock core; gneiss; SAPROLITE	First saprolitic sample
10–12		SPT 6	5 7 10	17/18					SM	SAND< silty (SM); red and brown (10 R 4/6 and 5 YR 6/8); damp; medium dense; fine; foliated; SAPROLITE	
12–14		SPT 7	5 6 7	13/18						SAA; red (10 R 5/4); damp; medium dense; silty; micaceous; fine to coarse	
18–20		SPT 8	2 6 7	10/18						SAA; brown and red (7.5 YR 5/8 and 10 R 5/6)	
22–24		SPT 9	2 5 7	9/18						SAA; brown, red and beige, as above with manganese staining	
28–30		SPT 10	3 5 8	10/18						SAA; red (10 R 5/6)	
32–34		SPT 11	3 5 9	14/18						SAA; beige; damp; medium dense; silty; micaceous	
34–36									ML	SILT sandy (ML); orange (7.5 6/8); damp; stiff; sandy; manganese stained	
36–37									▼	Refusal at 37.4 ft, drilled casing to 37.5 ft, see rock log	

Project Name : Job Number
MACTEC
SCE&G COL : 6234-06-3534

ROCK LOG - Boring No. B-233

Type and Diameter of Boring: Mud Rotary / 3 7/8 inch/NQ	Boring Location: Adjacent to Power Block		Total Depth: 75 feet
Drilling Contractor and Rig: MACTEC/Akins/212393 / CME550	Elevation at Boring: 426.1 feet	Ground Water Depth: 37 feet	Depth to Bedrock: 37.4 feet
Casing Size and Depth: 3.5 / 37.5 feet	Length of Core Barrel and Bit	No. of Core Boxes	Date Started: 4/13/06
	Borehole Inclination: 0	Logged by: M. Harvey	Date Completed: 4/18/06

Reviewed by / Date: M. Cooke 4/24/06

Depth (feet)	Run No.	Recovery / Cut	% RQD	Weathering	Strength	In-Situ Testing	Lithology	Lithology	Remarks
38-45	1	7.9 / 8.0	58	MW				GRANODIORITE; fine grained 3 to 1 mm quartz, orthoclase, biotite Amphibolite schist 40.7 to 43 Felsic gneiss GRANODIORITE; biotite and dark minerals; quartz and orthoclase; phaneritic	Tricone refusal 4/13/06; casing drilled to 37.5 ft Lost water return Very low drilling resistance No water return from 41.2 to 41.4 ft Very low drilling resistance 41.8 to 42.2 ft
46-50	2	5.0 / 5.0	100	SW / F	R3 / R3			AMPHIBOLITE SCHIST; foliation angle 45°	
51-55	3	4.9 / 4.9	100	F	R4			GRANODIORITE biotite, orthoclase and quartz AMPHIBOLITE SCHIST, gneiss	
56-60	4	4.5 / 4.6	100	F	R4			GNEISS; biotite; foliated at 43°; flow banded texture; chalcopyrite porphyroblasts. Schist amphibolite xenoliths; migmatite biotite gneiss Igneous texture	
61-65	5	5.0 / 5.0	100	F	R5			GRANODIORITE mafics; chalcopyrite AMPHIBOLITE SCHIST; 60° foliation	
66-70	6	5.0 / 5.0	100	F	R4			GRANODIORITE; with 2 inch amphibolite schist xenoliths	
71-75	7	5.0 / 5.0	100	F	R4			GNEISS, chalcopyrite, some biotite AMPHIBOLITE SCHIST and GRANODIORITE CORING TERMINATED AT 75.0 ft.	
76-77									End of drilling 4/18/06 water at 37 ft

Project Name : Job Number
MACTEC
SCE&G COL : 6234-06-3534

SOIL LOG - Boring No. B-234

Type and Diameter of Boring: Mud Rotary / 3 7/8 inch	Boring Location: Adjacent to Power Block		Total Depth: 55 feet
Drilling Contractor and Rig: MACTEC/Christian/211797 / CME 45	Elevation at Boring: 421.1 feet	Ground Water Depth	Depth to Bedrock
Sampling Method: Standard	Sample Driving Hammer/Drop: 140 lbs / 30 inches	No. of Samples: 15	Date Started: 6/11/06
	Borehole Inclination: 0	Logged by: C. Gandy	Date Completed: 6/11/06

Reviewed by / Date: M. Cooke 6/19/06
Reviewed by / Date: Clay Sams 12/1/06

Depth (feet)	Sample	Sample Type & No.	Uncorrected Blows/6 inches	Recovery (inches)	Water Content	Grain Size	Atterberg Limits	Lithology	Soil Type (USCS)	Lithology	Remarks
0-1		SPT 1	4 8 8	12/18					CL-ML	CLAY silty (CL-ML); dark red (2.5 YR 3/6); damp; very stifft; RESIDUUM	Top of residuum
2-3		SPT 2	6 8 7	0/18					CL-ML	No recovery	
4-5		SPT 3	6 9 10	14/18					CL-ML	CLAY silty (CL-ML); dark reddish brown (2.5 YR 2.5/4); damp; very stiff; RESIDUUM	
6-7		SPT 4	5 6 8	8/18						SAA, except moist; stiff	
8-9		SPT 5	5 7 9	12/18						SAA, except moist; very stiff	
10-11		SPT 6	4 7 9	15.5/18						SAA	
12-13		SPT 7	2 2 3	8.5/18						SAA, except moist; medium stiff	
14-15											
16-17											
18-19		SPT 8	8 17 26	18/18					CL-ML	CLAY silty (CL-ML); dark red (2.5 YR 3/6); damp; hard; slightly micaceous; RESIDUUM	
20-21											
22-23									ML	SILT sandy (ML); dark red (10 R 3/6); damp; very stiff; 70% silt, 30% sand; low plasticity; very micaceous; SAPROLITE	Top of saprolite
24-25		SPT 9	7 12 13	16/18							
26-27											
28-29		SPT 10	2 2 2	12/18						SAA; strong brown (7.5 YR 4/6); damp; soft; 65% silt, 35% sand; SAPROLITE	Abundant feldspar (relict) phenocrysts
30-31											
32-33											
34-35		SPT 11	4 5 7	13/18						SAA; dark brown (7.5 YR 3/4); damp; stiff; 75 % silt, 25% sand; low plasticity; SAPROLITE	
36-37											
38-39		SPT 12	5 6 9	12/18						SAA, strong brown (7.5 YR 4/6); and 65% silt, 35% sand	Abundant quartz phenocrysts
40											

Project Name : Job Number
MACTEC
SCE&G COL : 6234-06-3534

SOIL LOG - Boring No. B-234

Depth (feet)	Sample	Sample Type & No.	Uncorrected Blows/6 inches	Recovery (inches)	Water Content	Grain Size	Atterberg Limits	Lithology	Soil Type (USCS)	Lithology	Remarks
40										SILT sandy (ML); dark red (10 R 3/6); damp; very stiff; 70% silt, 30% sand; low plasticity; very micaceous; SAPROLITE *(Continued from previous page)*	up to pebble size
44		SPT 13	6 8 13	13/18						SAA	Abundant relict feldspar and quartz phenocrysts up to pebble size
49		SPT 14	7 9 14	13/18						SAA; light olive brown (2.5 Y 5/4); damp; very stiff; 65% silt, 35% sand; very micaceous; SAPROLITE	Abundant relict feldspar and quartz phenocrysts up to pebble size
54		SPT 15	7 11 18	14/18						SAA, except brown (7.5 Y 5/4) BORING TERMINATED AT 55.0 ft	Abundant relict feldspar and quartz phenocrysts up to pebble size
55											End of drilling at 55.0 ft on 6/11/06; no water

Project Name : Job Number	ROCK LOG - Boring No. B-234
MACTEC SCE&G COL : 6234-06-3534	

Type and Diameter of Boring Mud Rotary / 3 7/8 inch	Boring Location Adjacent to Power Block		Total Depth 55 feet
Drilling Contractor and Rig MACTEC/Christian/211797 / CME 45	Elevation at Boring 421.1 feet	Ground Water Depth	Depth to Bedrock
Casing Size and Depth	Length of Core Barrel and Bit	No. of Core Boxes	Date Started 6/11/06
	Borehole Inclination 0	Logged by C. Gandy	Date Completed 6/11/06

Reviewed by / Date M. Cooke 6/19/06

Depth (feet)	Run No.	Recovery / Cut	% RQD	Weathering	Strength	In-Situ Testing	Lithology	Lithology	Remarks
0								CLAY silty (CL-ML); dark red (2.5 YR 3/6); damp; very stifft; RESIDUUM	Top of residuum
2								No recovery	
3								CLAY silty (CL-ML); dark reddish brown (2.5 YR 2.5/4); damp; very stiff; RESIDUUM	
6								SAA, except moist; stiff	
9								SAA, except moist; very stiff	
11								SAA	
14								SAA, except moist; medium stiff	
17								CLAY silty (CL-ML); dark red (2.5 YR 3/6); damp; hard; slightly micaceous; RESIDUUM	
22								SILT sandy (ML); dark red (10 R 3/6); damp; very stiff; 70% silt, 30% sand; low plasticity; very micaceous; SAPROLITE	Top of saprolite
29								SAA; strong brown (7.5 YR 4/6); damp; soft; 65% silt, 35% sand; SAPROLITE	Abundant feldspar (relict) phenocrysts
34								SAA; dark brown (7.5 YR 3/4); damp; stiff; 75 % silt, 25% sand; low plasticity; SAPROLITE	
39								SAA, strong brown (7.5 YR 4/6); and 65% silt, 35% sand	Abundant quartz phenocrysts
40									

Project Name : Job Number

MACTEC

SCE&G COL : 6234-06-3534

ROCK LOG - Boring No. B-234

Depth (feet)	Run No.	Recovery / Cut	% RQD	Weathering	Strength	In-Situ Testing	Lithology	Lithology	Remarks
40									up to pebble size
41									
42									
43									
44								SAA	Abundant relict feldspar and quartz phenocrysts up to pebble size
45									
46									
47									
48									
49								SAA; light olive brown (2.5 Y 5/4); damp; very stiff; 65% silt, 35% sand; very micaceous; SAPROLITE	Abundant relict feldspar and quartz phenocrysts up to pebble size
50									
51									
52									
53									
54								SAA, except brown (7.5 Y 5/4) BORING TERMINATED AT 55.0 ft	Abundant relict feldspar and quartz phenocrysts up to pebble size
55									End of drilling at 55.0 ft on 6/11/06; no water
56									
57									
58									
59									
60									
61									
62									
63									
64									
65									
66									
67									
68									
69									
70									
71									
72									
73									
74									
75									
76									
77									
78									
79									
80									

Project Name : Job Number
MACTEC
SCE&G COL : 6234-06-3534

SOIL LOG - Boring No. B-235

Type and Diameter of Boring: Mud Rotary / 3 7/8 inch/NQ	Boring Location: Adjacent to Power Block		Total Depth: 85.5 feet
Drilling Contractor and Rig: MACTEC/Cain/100 / D 50	Elevation at Boring: 379.4 feet	Ground Water Depth	Depth to Bedrock: 62.5 feet
Sampling Method: Standard	Sample Driving Hammer/Drop: 140 lbs / 30 inches	No. of Samples: 16	Date Started: 6/19/06
	Borehole Inclination: 0	Logged by: M. Harvey	Date Completed: 6/21/06

Reviewed by / Date: M. Cooke 7/13/06
Reviewed by / Date: Clay Sama 12/1/06

Depth (feet)	Sample	Sample Type & No.	Uncorrected Blows/6 inches	Recovery (inches)	Water Content	Grain Size	Atterberg Limits	Lithology	Soil Type (USCS)	Lithology	Remarks
0-1		SPT 1	2 2 4	6/18					ML	SILT clayey (ML); brown (2.5 YR 3/3); dry; medium stiff	Residuum
2		SPT 2	6 8 14	16/18					ML	SILTclayey (ML); dark red (2.5 YR 3/6); dry; very stiff	
3-4		SPT 3	9 10 15	16/18					ML	SILT(ML); red (2.5 YR 4/6); dry; very stiff; trace clay	
5-6		SPT 4	8 12 16	18/18					CL-ML	SILT clayey, sandy (ML to CL); red (2.5 YR 4/6); mottled with yellow; dry; very stiff; low to medium plasticity; RESIDUUM	
7-8		SPT 5	7 11 16	16/18					ML	SILT sandy, trace clay (ML); red (2.5 YR 4/6); mottled with yellow; very stiff; fine to medium grained; no to low plasticity; trace mica; RESIDUUM	
9-10		SPT 6	7 9 12	18/18						SAA	
11-12		SPT 7	6 11 18	18/18						SAA; yellowish red (5 YR)	
13-14		SPT 8	12 15 19	9/18					SM	SAND silty, gravely (SM); brown (7.5 YR 5/8); dry; dense; relict feldspar and large quartz gravel >1 inch largest; degraded pegmatite?; some relict structure	End drilling 6/19/06 Resume drilling 6/20/06; water level dry
15-16		SPT 9	5 7 8	13/18					ML	SILT (ML); brown (7.5 YR 5/8 and 7.5 YR 6/3); dry; stiff; micaceous; manganese staining; SAPROLITE	First saprolitic sample
17-18		SPT 10	5 6 9	18					SM	SAND silty (SM); brownish yellow (10 YR 6/6); dry; medium dense; fine grained; micaceous; manganese staining	
19-20		SPT 11	4 5 10	14/18					ML	SILT sandy (ML); black to white with some orange staining (5 YR 8/1, 5 YR 2.5/1, 5 YR 6/6); dry; micaceous; medium sand sizes and coarse sand sized grains in silt matrix; SAPROLITE	
21-22		SPT 12	14 14 18	18/18					SM	SAND silty, gravely (SM); upper 4 inch black and white greenish, apparent diorite or degraded amphibolite; lower 14 inch white and brown (7.5 YR 4/4); dry; dense; micaceous; SAPROLITE	

Project Name : Job Number
MACTEC
SCE&G COL : 6234-06-3534

SOIL LOG - Boring No. B-235

Depth (feet)	Sample	Sample Type & No.	Uncorrected Blows/6 inches	Recovery (inches)	Water Content	Grain Size	Atterberg Limits	Lithology	Soil Type (USCS)	Lithology	Remarks
40										SAND silty, gravely (SM); upper 4 inch black and white greenish, apparent diorite or degraded amphibolite; lower 14 inch white and brown (7.5 YR 4/4); dry; dense; micaceous; SAPROLITE *(Continued from previous page)*	
44		SPT 13	9 14 19	16/18						SAA upper 11 inch; lower 5 inch silty fine SAND (SM); pale green (Gley 2 7/1 10G); dry; dense; lower 1 inch orange (7.5 YR 7/6)	
49		SPT 14	26 50/3	9/9						SAND (SM); upper 5 inch medium to coarse grained; micaceous; feldspar, quartz, mica, muscovite and biotite Lower 5 inch beige to dark orange (2.5 Y 7/4 and 5 YR 5/8); dry; very dense; fine grained; PARTIALLY WEATHERED ROCK	Partially weathered rock
54		SPT 15	20 43 50/3	15/15						SAND (SM); light greenish gray (5 Y 8/2); and orange brown (7.5 YR 6/8); dry; very dense; PARTIALLY WEATHERED ROCK	
59		SPT 16	28 25 50/3	15/15					ML	SAND (SM); black, brown, and white; dense; fine to medium grained; foliated; micaceous; quartz, feldspar; mica; PARTIALLY WEATHERED ROCK SILT (ML); black with white banding 1/8 to 1/32 inch; dry; hard; sandy; lower mica content; PARTIALLY WEATHERED ROCK Tricone refusal 62 ft	Refusal
80											

Project Name : Job Number
MACTEC
SCE&G COL : 6234-06-3534

ROCK LOG - Boring No. B-235

Type and Diameter of Boring: Mud Rotary / 3 7/8 inch/NQ	Boring Location: Adjacent to Power Block		Total Depth: 85.5 feet
Drilling Contractor and Rig: MACTEC/Cain/100 / D 50	Elevation at Boring: 379.4 feet	Ground Water Depth	Depth to Bedrock: 62.5 feet
Casing Size and Depth: 3.5 / 62.5 feet	Length of Core Barrel and Bit: 13 feet	No. of Core Boxes	Date Started: 6/19/06
	Borehole Inclination: 0	Logged by: M. Harvey	Date Completed: 6/21/06

Reviewed by / Date: M. Cooke 7/13/06

Depth (feet)	Run No.	Recovery / Cut	% RQD	Weathering	Strength	In-Situ Testing	Lithology	Lithology	Remarks
63-65	1	0.9 / 3.0	0	CW to SW	R0 to R3			HORNBLENDE GNEISS; epidote in healed joints with quartz vein	
66-70	2	4.0 / 5.0	27	MW to CW	R2 to R3			GRANODIORITE; white, black and some gray (Gley 1 8/N to 2.5/N) medium to large grained; feldspar, biotite, quartz, iron staining at fracture joints, amphibole, very little orthoclase readly apparent; consistent lithology almost entire core CORING TERMINATED AT 85.5 ft	
71-75	3	1.8 / 5.0	7	CW to MW	R0 to R3				
76-80	4	4.0 / 5.0	74	SW / F	R0 / R3 / R4				Sound rock
81-85	5	5.0 / 5.0	100	F	R4				
86-102									

Project Name : Job Number
MACTEC
SCE&G COL : 6234-06-3534

SOIL LOG - Boring No. B-236

Type and Diameter of Boring: Mud Rotary / 3 7/8 inch	Boring Location: Adjacent to Power Block		Total Depth: 27.3 feet
Drilling Contractor and Rig: MACTEC/Skoglund/100 / D 50	Elevation at Boring: 374.7 feet	Ground Water Depth:	Depth to Bedrock: 27.3 feet
Sampling Method: Standard	Sample Driving Hammer/Drop: 140 lbs / 30 inches	No. of Samples: 9	Date Started: 6/11/06
	Borehole Inclination: 0	Logged by: M. Harvey	Date Completed: 6/11/06

Reviewed by / Date: M. Cooke
Reviewed by / Date: Clay Sams 12/1/06

Depth (feet)	Sample	Sample Type & No.	Uncorrected Blows/6 inches	Recovery (inches)	Water Content	Grain Size	Atterberg Limits	Lithology	Soil Type (USCS)	Lithology	Remarks
0											
1		SPT 1	2 3 4	18/18					SM	SAND (SM); red (2.5 YR 4/6); dry; loose; fine to medium grained	Residuum
2		SPT 2	3 4 7	18/18						SAA; medium dense	
3									ML	SILT (ML); orange (5 YR 5/8); dry; stiff; micaceous; some manganese staining; trace fine sand	
4		SPT 3	8 10 14	16/18							
5											
6		SPT 4	4 5 8	16/18						SAA; trace clay	
7											
8									SM	SAND silty (SM); green to olive (5 Y 5/3); dry; medium dense; very fine sand; trace clay; SAPROLITE	First saprolitic sample
9		SPT 5	5 9 11	14/18							
10											
11									ML	SILT sandy (ML); orange and green (5 YR 5/8 and 5 Y 5/3); dry; stiff; fine sand; green in harder bands and occasionally	
12		SPT 6	5 5 7	15/18							
13											
14		SPT 7	4 3 6	13/18						SAA; gravel as less degraded rock in places; green to black gravel	
15											
16											
17											
18											
19		SPT 8	6 9 16	8/18						SILT sandy (ML); green in lower 5 inch (5 Y 5/2); and orange in upper 3 inch (7.5 YR 5/6); dry; very stiff some manganese staining; relict structure; SAPROLITE	
20											
21											
22											
23										SAND silty, gravely (SM); upper 6 inch, from 6 to 12 inch GM; gravel in silt matrix; orange weathered rock, lower 6 inch green silt (ML); MODERATELY WEATHERED ROCK	
24		SPT 9	12 12 17	18/18						BORING TERMINATED at 27.3 ft	
25											
26											
27											
28											
29											
30											
31											
32											
33											
34											
35											
36											
37											
38											
39											
40											

Project Name : Job Number
MACTEC
SCE&G COL : 6234-06-3534

ROCK LOG - Boring No. B-236

Type and Diameter of Boring: Mud Rotary / 3 7/8 inch	Boring Location: Adjacent to Power Block		Total Depth: 27.3 feet
Drilling Contractor and Rig: MACTEC/Skoglund/100 / D 50	Elevation at Boring: 374.7 feet	Ground Water Depth	Depth to Bedrock: 27.3 feet
Casing Size and Depth	Length of Core Barrel and Bit	No. of Core Boxes	Date Started: 6/11/06
	Borehole Inclination: 0	Logged by: M. Harvey	Date Completed: 6/11/06

Reviewed by / Date M. Cooke

Depth (feet)	Run No.	Recovery / Cut	% RQD	Weathering	Strength	In-Situ Testing	Lithology	Lithology	Remarks
28									Boring terminated, changed drillers, see B-236A
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									
46									
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51									
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54									
55									
56									
57									
58									
59									
60									
61									
62									
63									
64									
65									
66									
67									

Project Name : Job Number
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SCE&G COL : 6234-06-3534

SOIL LOG - Boring No. B-236A

Type and Diameter of Boring: Mud Rotary / 3 7/8 inch/NQ	Boring Location: Adjacent to Power Block		Total Depth: 115.1 feet
Drilling Contractor and Rig: MACTEC/White/331145 / CME 55 LC	Elevation at Boring: 374.4 feet	Ground Water Depth: 17.2 feet	Depth to Bedrock: 38.5 feet
Sampling Method: Standard	Sample Driving Hammer/Drop: 140 lbs / 30 inches	No. of Samples: 2	Date Started: 8/3/06
	Borehole Inclination: 0	Logged by: C. Gandy	Date Completed: 8/5/06

Reviewed by / Date: M. Cooke 8/6/06

Reviewed by / Date:

Depth (feet)	Sample	Sample Type & No.	Uncorrected Blows/6 inches	Recovery (inches)	Water Content	Grain Size	Atterberg Limits	Lithology	Soil Type (USCS)	Lithology	Remarks
0										Relocated 9.5 ft NE of B-236. Drilled without sampling, see B-236	
29		SPT 1	14 50/6	12 12					ML	SILT sandy (ML); dark brown (7.5 YR 3/4); hard; moist; 60% silt, 40% sand; low plasticity; contains pebble size angular quartz; pyritic; SAPROLITE	
32									ML	SILT sandy (ML); bluish gray; hard; moist; 70% silt, 30% sand; low plasticity; rock clasts are common (0.25 to 1 inch diameter); all are angular; PARTIALLY WEATHERED ROCK	Partially weathered rock
34		SPT 2	50/5	5 5						BORING TERMINATED at 38.5 ft; see rock log	
38		SPT 3	50/3	0 3							

Project Name : Job Number
MACTEC
SCE&G COL : 6234-06-3534

ROCK LOG - Boring No. B-236A

Type and Diameter of Boring: Mud Rotary / 3 7/8 inch/NQ	Boring Location: Adjacent to Power Block		Total Depth: 115.1 feet
Drilling Contractor and Rig: MACTEC/White/331145 / CME 55 LC	Elevation at Boring: 374.4 feet	Ground Water Depth: 17.2 feet	Depth to Bedrock: 38.5 feet
Casing Size and Depth: 3 / 38.5 feet	Length of Core Barrel and Bit: 5 feet / 5 feet	No. of Core Boxes: 4	Date Started: 8/3/06
	Borehole Inclination: 0	Logged by: C. Gandy	Date Completed: 8/5/06

Reviewed by / Date: M. Cooke 8/6/06
Clay Sama 12/1/06

Depth (feet)	Run No.	Recovery / Cut	% RQD	Weathering	Strength	In-Situ Testing	Lithology	Lithology	Remarks
39-41	1	1.3 / 3.0	0	CW to MW	R0 to R2			HORNBLENDE GNEISS; light to medium gray; fine grained; hornblende, biotite, feldspar, quartz, muscovite	Tricone bit refusal
42-46	2	1.5 / 5.0	7	CW to MW	R0 to R2				
47-51	3	0.3 / 5.0	0	CW to MW	R0 to R2				
52-56	4	2.6 / 5.0	28	CW to MW	R0 to R2			Transitional zone from HORNBLENDE GNEISS to QUARTZ DIORITE	
57-61	5	4.8 / 5.0	66	CW to MW	R0 to R2			QUARTZ DIORITE; black to white; medium to coarse grained; quartz, feldspar, biotite, hornblende HORNBLENDE GNEISS QUARTZ DIORITE	
62-66	6	2.6 / 5.0	44	CW to MW	R0 to R2			HORNBLENDE GNEISS; epidote vein ~0.1 inch wide QUARTZ DIORITE	
67-71	7	4.7 / 5.0	72	CW to F	R0 to R2 R1 to R3			HORNBLENDE GNEISS; light to medium gray; fine grained; hornblende, biotite, feldspar, quartz, muscovite	
72-76	8	5.0 / 5.0	92	MW to F	R2 to R3				
77-78									End day 8/3/06; water level at 0 ft Begin day 8/4/06; water level at

Project Name : Job Number
MACTEC
SCE&G COL : 6234-06-3534

ROCK LOG - Boring No. B-236A

Depth (feet)	Run No.	Recovery / Cut	% RQD	Weathering	Strength	In-Situ Testing	Lithology	Lithology	Remarks
79	9	4.8/5.0	86	MW to F	R2 to R3			SAA; feldspar and granodiorite veins up to 0.1 inch wide are common	17.2 ft Sound rock
82								QUARTZ DIORITE	
83								HORNBLENDE GNEISS	
84	10	5.3/5.3	100	F	R3				
87								MIGMATITE; breccia; angular to subrounded fragments; dark gray to black; fine grained; hornblende gneiss throughout a fine grained granitic matrix; feldspar, quartz, hornblende, biotite	
89	11	4.7/4.7	100	F	R3				
94	12	5.2/5.2	100	F	R3				
99	13	5.2/5.2	100	F	R3				
100								HORNBLENDE GNEISS; light to dark gray or black; fine grained; hornblende, biotite, quartz, feldspar, angular fragments in matrix or granodiorite white to black, fine to medium grained; feldspar, quartz, hornblende, biotite Pegmatite dike (quartz and feldspar) 100.25 to 100.35 ft SAA; epidote veins	
104	14	5.1/5.1	100	F	R3				
109	15	5.0/5.0	100	F	R3				
114	16	3.1/3.1	100	F	R4				
115								CORING TERMINATED at 115 ft	NQ coring terminated at 115 on 8/4/06

Project Name : Job Number
MACTEC
SCE&G COL : 6234-06-3534

SOIL LOG - Boring No. B-301

Type and Diameter of Boring: Mud Rotary / 4 7/8 inch/HQ	Boring Location: Nuclear Island		Total Depth: 129.8 feet
Drilling Contractor and Rig: Gregg/Smith/311025 / CME 55	Elevation at Boring: 417.1 feet	Ground Water Depth: 51 feet	Depth to Bedrock: 58 feet
Sampling Method: Split Spoon	Sample Driving Hammer/Drop: 140 lbs / 30 inches	No. of Samples: 15	Date Started: 5/26/06
	Borehole Inclination: 0	Logged by: J. Harmon	Date Completed: 6/6/06

Reviewed by / Date: M. Cooke 7/8/06
Reviewed by / Date: Clay James 11/30/06

Depth (feet)	Sample	Sample Type & No.	Uncorrected Blows/6 inches	Recovery (inches)	Water Content	Grain Size	Atterberg Limits	Lithology	Soil Type (USCS)	Lithology	Remarks
0-1		SPT 1	5 5 4	13/18					ML	SILT sandy (ML); strong brown (7.5 YR 4/6); damp; stiff; 40% fine sand; low plasticity; large rock fragments; RESIDUUM	Start drilling on 5/26/06 Residuum
2-3		SPT 2	2 4 6	12/18	●	●			SM	SAND silty (SM); strong brown (7.5 YR 5/6); damp; 27% fines; small rock fragments; RESIDUUM	
4		SPT 3	4 5 6	13/18	●		●		CH	CLAY sandy (CH); white (Gley 1 8/N); moist; ~15% sand; high plasticity; RESIDUUM	
5									ML	SILT sandy (ML); strong brown (7.5 YR 5/6); moist; ~40% fine sand; low plasticity; slightly micaceous; RESIDUUM	
6-7		SPT 4	4 6 6	12/18	●	●			SM	SAND silty (SM); strong brown and light gray (7.5 YR 5/6 and 7/1); 35% fines	
8-9		SPT 5	4 6 6	11/18						SAND silty (SM); strong brown, light gray (7.5 YR 5/6, 7/1); moist; micaceous; RESIDUUM	
10										SAA	
11-12		SPT 6	4 5 8	14/18	●	●				SAA; 25% fines	
13											Top of saprolite
14-15		SPT 7	7 7 9	13/18	●	●			SM	SAND silty (SM); brown (7.5 YR 5/3); moist; medium dense; no plasticity; micaceous; 29% fines; SAPROLITE	
16-18											
19		SPT 8	8 7 12	14/18	●	●				SAND silty (SM); brown (7.5 YR 5/3); moist; medium dense; low plasticity; micaceous; 24% fines; SAPROLITE	
20									▼		
21-23											
24		SPT 9	7 8 11	15/18	●	●				SAA; 23% fines	
25-28											
29		SPT 10	7 7 12	14/18	●	●	●			SAND silty (SM); brown (7.5 YR 4/4); moist; medium dense; no plasticity; micaceous; small rock fragments; quartz, feldspar? 24% fines; SAPROLITE	
30-33											
34		SPT 11	7 9 13	14/18	●	●				SAND silty (SM); brown (7.5 YR 4/3); moist; medium dense; low plasticity; very micaceous; 26% fines; SAPROLITE	
35-38											
39		SPT 12	6 8 10	12/18	●	●				SAND silty (SM); small rock fragments, feldspar, quartz? bands of mica of biotite?; 26% fines	
40											

Project Name : Job Number

MACTEC

SCE&G COL : 6234-06-3534

SOIL LOG - Boring No. B-301

Depth (feet)	Sample	Sample Type & No.	Uncorrected Blows/6 inches	Recovery (inches)	Water Content	Grain Size	Atterberg Limits	Lithology	Soil Type (USCS)	Lithology	Remarks
40									SM		
41											
42											
43											
44		SPT 13	5 8 10	18/18	●	●				SAND silty (SM); strong brown (7.5 YR 5/6); moist; medium dense; low plasticity; micaceous; 36% fines; SAPROLITE	
45											
46											
47											
48											
49		SPT 14	8 11 15	14/18	●	●	●			SAND silty (SM); yellowish brown (10 YR 5/4); moist; dense; micaceous; small rock fragments; no plasticity; 20% fines SAPROLITE	
50											
51									▽		
52									SM	SAND silty with gravel (SM); very micaceous; small rock fragments; quartz, feldspar; 22% fines; SAPROLITE	
53											
54		SPT 15	8 10 14	14/18	●	●				BORING TERMINATED AT 58.0 ft.	
55											
56											
57											
58											
59											
60											
61											
62											
63											
64											
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80											

Project Name : Job Number
MACTEC
SCE&G COL : 6234-06-3534

ROCK LOG - Boring No. B-301

Type and Diameter of Boring: Mud Rotary / 4 7/8 inch/HQ	Boring Location: Nuclear Island		Total Depth: 129.8 feet
Drilling Contractor and Rig: Gregg/Smith/311025 / CME 55	Elevation at Boring: 417.1 feet	Ground Water Depth: 51 feet	Depth to Bedrock: 58 feet
Casing Size and Depth: 4 / 58 feet	Length of Core Barrel and Bit: 8.6 feet	No. of Core Boxes: 6	Date Started: 5/26/06
	Borehole Inclination: 0	Logged by: J. Harmon	Date Completed: 6/6/06

Reviewed by / Date M. Cooke 7/8/06

Depth (feet)	Run No.	Recovery / Cut	% RQD	Weathering	Strength	In-Situ Testing	Lithology	Lithology	Remarks
58									Tricone refusal at 58 ft
59	1	1.5/1.8	72	MW	R3			GRANODIORITE; white, very dark gray (Gley 1 8/N 3/N); igneous texture; fine to medium grained; slightly discolored; quartz, feldspar, biotite	Switch to HQ rock coring on 5/26/06
60									
61								GRANODIORITE; white and very dark gray, greenish gray (Gley 1 8/N, 3/N, 5/5GY); fine to medium grained; igneous texture; quartz, feldspar, biotite, hornblende	Begin day 5/28/06
62	2	5.0/5.0	100	F	R4				Top of Sound rock
63									
64								QUARTZ DIORITE; white and very dark gray, greenish gray (Gley 1 8/N, 3/N, 5/5GY) 63.3 to 64.4 ft	
65								Aplite dike	
66									
67	3	5.0/5.0	100	F	R4			MIGMATITE; mixture of GRANODIORITE and QUARTZ DIORITE; (Gley 1 8/N, 3/N, 5/5GY); white, very dark gray, and greenish gray; fine to coarse grained; igneous texture, quartz, feldspar, biotite, schist	
68									
69									
70									
71								QUARTZ DIORITE; light gray and black (Gley 1 7/N, 2.5/N); fine to medium grained; igneous texture; biotite, quartz, feldspar.	
72	4	5.0/5.0	100	F	R4 to R5				
73								GRANODIORITE; white, very dark gray, light gray (Gley 1 8/N, 3/N, 7/N); fine to medium grained; igneous texture; quartz, feldspar, biotite, schist	
74									
75								MIGMATITE mixture of HORNBLENDE GNEISS from 74.8 to 76.4 ft; greenish gray, very dark gray and light gray (Gley 7/N, 3/N, 5/5GY); fine grained; flowing texture; GRANODIORITE and QUARTZ DIORITE SAA; quartz, biotite, feldspar, schist, hornblende	
76									
77	5	5.0/5.0	100	F	R4 to R5				
78									
79									
80									
81								QUARTZ DIORITE; (79.8 to 80.8 ft); white and very dark gray (Gley 1 8/N, 3/N); fine to medium grained; igneous texture	
82	6	5.0/5.0	100	F	R4 to R5			GRANODIORITE; white and very dark gray (Gley 1 8/N, 3/N); fine to medium grained; igneous texture; quartz, feldspar, biotite	
83									
84									
85								QUARTZ DIORITE (SAA) from 85 to 86 ft	End of day 5/28/06; water level at 20 ft
86									
87	7	5.0/5.0	100	F	R4 to R5				Begin day 5/29/06; water level at 46 ft
88									
89									
90								GRANODIORITE; white, light gray, very dark gray (Gley 1 8/N, 7/N, 3/N)	
91									
92	8	5.0/5.0	96	F	R5				
93									
94								QUARTZ DIORITE zone? very dark gray (Gley 1 3/N); fine grained from 93.1 to 93.6 ft	
95								GRANODIORITE; white, light gray, and black (Gley 1 8/N, 7/N, 2.5/N)	
96									
97	9	5.0/5.0	99	F	R4 to				
98									

Project Name : Job Number
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ROCK LOG - Boring No. B-301

Depth (feet)	Run No.	Recovery / Cut	% RQD	Weathering	Strength	In-Situ Testing	Lithology	Lithology	Remarks
98					R5				
99									
100									
101	10	5.0/5.0	99	F	R4 to R5			QUARTZ DIORITE ZONE; white, light gray, and black (Gley 8/N, 7/N, 2.5/N); fine to medium grained; igneous texture; from 100.7 to 101.8 ft	
102									
103									
104									
105	11	5.0/5.0	100	F	R4 to R5			MIGMATITE SAA; mixture of GRANODIORITE (SAA); QUARTZ DIORITE and SCHIST; white, light gray; very dark gray and black (Gley 1 8/N, 7/N, 2.5/N, 3/N); fine to medium grained; igneous/flowing texture, quartz, feldspar, hornblende, schist, biotite	
106									
107									
108									
109									
110	12	5.0/5.0	100	F	R4 to R5			GRANODIORITE; white, light gray and black (Gley 1 8/N, 7/N, 2.5/N); fine to medium grained; igneous texture	
111									
112									
113								QUARTZ DIORITE; light gray, very dark gray and black (Gley 1 3/N, 7/N, 2.5/N); fine to medium grained; igneous texture. From 113.4 to 114.8 ft	
114									
115	13	5.0/5.0	100	F	R4 to R5			SAA GRANODIORITE and QUARTZ DIORITE	
116									
117									
118									
119									
120	14	5.0/5.0	100	F	R4 to R5			QUARTZ DIORITE; light gray, very dark gray and black (Gley 1 7/N, 3/N, 2.5/N); fine to medium grained; igneous texture; biotite, schist, hornblende, feldspar, quartz.	
121									
122									
123									
124									
125	15	5.0/5.0	100	F	R4 to R5			GRANODIORITE, white, light gray, and black (Gley 1 8/N, 7/N, 2.5/N); fine to medium grained; igneous texture; quartz, feldspar, biotite	
126									
127									
128									
129								QUARTZ DIORITE; light gray and black (Gley 1 7/N, 2.5/N); igneous texture, fine to medium grained 128.8 to 129.8 ft	
130									Core bit stuck in boring at 130 ft End of day 5/29/06; water level at 20 ft Begin day 5/30/06; water level at 44 ft No drilling on 5/30 6/6/06; water level at 51 ft; no drilling 6/7/06 attempted to drill through bit and a second bit was lost 6/8/06 Hole abandoned and offset 10 ft due to core bit stuck
131									
132									
133									
134									
135									
136									
137									
138									

Project Name : Job Number

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ROCK LOG - Boring No. B-301

Depth (feet)	Run No.	Recovery / Cut	% RQD	Weathering	Strength	In-Situ Testing	Lithology	Lithology	Remarks
138									in hole at 130.2 ft See B-301A
139									
140									
141									
142									
143									
144									
145									
146									
147									
148									
149									
150									
151									
152									
153									
154									
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170									
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172									
173									
174									
175									
176									
177									
178									

Project Name : Job Number	SOIL LOG - Boring No. B-301A
MACTEC SCE&G COL : 6234-06-3534	

Type and Diameter of Boring Mud Rotary / 4 7/8 inch/HQ	Boring Location Nuclear Island		Total Depth 350.9 feet
Drilling Contractor and Rig Gregg/Smith/311025 / CME 55	Elevation at Boring 416.2 feet	Ground Water Depth 53 feet	Depth to Bedrock 54.5 feet
Sampling Method No sampling	Sample Driving Hammer/Drop NA / NA	No. of Samples 0	Date Started 6/8/06
	Borehole Inclination 0	Logged by J. Harmon	Date Completed 7/8/06

Reviewed by / Date M. Cooke 7/8/06

Reviewed by / Date Clay Sams 12/4/06

Depth (feet)	Sample	Sample Type & No.	Uncorrected Blows/6 inches	Recovery (inches)	Water Content	Grain Size	Atterberg Limits	Lithology	Soil Type (USCS)	Lithology	Remarks
0										Wash drill without sampling to refusal at 54.5 ft	
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
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30											
31											
32											
33											
34											
35											
36											
37											
38											
39											
40											

Project Name : Job Number

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SOIL LOG - Boring No. B-301A

Depth (feet)	Sample	Sample Type & No.	Uncorrected Blows/6 inches	Recovery (inches)	Water Content	Grain Size	Atterberg Limits	Lithology	Soil Type (USCS)	Lithology	Remarks
40										Wash drill without sampling to refusal at 54.5 ft *(Continued from previous page)*	
41											
42											
43											
44											
45											
46											
47											
48											
49											
50											
51											
52											
53									▽		
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79											
80											

Project Name : Job Number	ROCK LOG - Boring No. B-301A
MACTEC SCE&G COL : 6234-06-3534	

Type and Diameter of Boring Mud Rotary / 4 7/8 inch/HQ	Boring Location Nuclear Island		Total Depth 350.9 feet
Drilling Contractor and Rig Gregg/Smith/311025 / CME 55	Elevation at Boring 416.2 feet	Ground Water Depth 53 feet	Depth to Bedrock 54.5 feet
Casing Size and Depth 4 / 54.5 feet	Length of Core Barrel and Bit 8.6 feet	No. of Core Boxes 21	Date Started 6/8/06
	Borehole Inclination 0	Logged by J. Harmon	Date Completed 7/8/06

Reviewed by / Date M. Cooke 7/8/06

Depth (feet)	Run No.	Recovery / Cut	% RQD	Weathering	Strength	In-Situ Testing	Lithology	Lithology	Remarks
55									
56	1	1.3/3.8	21	HW	R2			GRANODIORITE; white, light gray, black (Gley 1 8/N, 7/N, 2.5/N); fine to medium grained; igneous texture; staining; quartz, feldspar, biotite	HQ rock coring started at 54.5 ft on 6/13/06
57									
58									
59									
60	2	4.8/5.0	92	HW to F	R3			QUARTZ DIORITE; white and black (8/N, 2.5/N); fine to medium grained; igneous texture; biotite, quartz, feldspar 60.2 to 62.6 ft	
61									
62									
63								Xenolith of schist at 63 ft and 63.5 ft	
64								GRANODIORITE; white, light gray, and black, (Gley 1 8/N, 7/N, 2.5/N)	
65									
66	3	5.0/5.0	100	F	R4				
67									
68									
69									End of day 6/13/06; water level at 15 ft
70									Begin of 6/19/06
71	4	5.0/5.0	90	F	R4 to R5			QUARTZ DIORITE ZONES; black, light gray (Gley 2.5/N, 7/N); fine to medium grained; igneous/flowing texture (possible migmatite); quartz, feldspar, biotite 70.5 to 73 ft	End of day 6/19/06; water level at 5 ft
72									Begin of 6/20/06; water level at 51 ft
73									
74								QUARTZ DIORITE ZONES; black, light gray (Gley 2.5/N, 7/N); igneous textured; fine to medium quartz, feldspar, biotite?	End of 6/20/06; water level at 10 ft
75									Begin of 6/21/06; water level at 45 ft
76	5	5.0/5.0	97	F	R4				
77									
78									
79									End of 6/21/06 water level at 30 ft
80									Begin 6/22/06; water level at 42 ft
81	6	5.0/5.0	100	F	R4				
82								HORNBLENDE GNEISS ZONE; white, greenish gray, very dark gray, (Gley 1 8/N, 6/1, 3/N); fine grained; flowing texture; foliation at ~20°; hornblende, biotite? 81.2 to 81.8 ft	
83									
84									
85									
86	7	5.0/5.0	100	F	R4				
87									
88									
89									
90									
91	8	5.0/5.0	100	F	R4				
92									
93									
94								MIGMATITE; mixture of QUARTZ DIORITE and GRANODIORITE; black, white, and light gray (Gley	

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ROCK LOG - Boring No. B-301A

Depth (feet)	Run No.	Recovery / Cut	% RQD	Weathering	Strength	In-Situ Testing	Lithology	Lithology	Remarks
95-98	9	5.0/5.0	100	F	R4			1 2.5/N, 8/N, 7/N); fine to coarse grained?; flowing igneous texture; quartz, feldspar, biotite	
99-103	10	5.0/5.0	100	F	R4				
104-108	11	5.0/5.0	100	F	R4			GRANODIORITE; black, white, light gray (Gley 1 2.5 /N, 8/N, 7/N); fine to medium grained; igneous texture; quartz, feldspar, biotite QUARTZ DIORITE; black, light gray (Gley 1 2.5/N, 7/N); fine to medium grained; igneous texture; quartz, feldspar, biotite	End of 6/22/06; water level at 0 ft Begin of 6/23/06; water level at 40 ft
109-113	12	5.0/5.0	100	F	R4				
114-118	13	5.0/5.0	100	F	R4				
119-123	14	5.0/5.0	100	F	R4				
124-128	15	5.0/5.0	100	F	R4			BIOTITE GNEISS; gray and very dark gray (Gley 1 3/N, 6/N); fine grained; foliation at 0°; banded texture; biotite	
129-133	16	5.0/5.0	100	F	R4			MIGMATITE mixture of GRANODIORITE, QUARTZ DIORITE and BIOTITE GNEISS; black, white, light gray (Gley 1 2.5/N, 7/N, 8/N); fine to medium grained; flowing/igneous texture; quartz, feldspar, gneiss foliation ~30°, hornblende	
134									

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ROCK LOG - Boring No. B-301A

Depth (feet)	Run No.	Recovery / Cut	% RQD	Weathering	Strength	In-Situ Testing	Lithology	Lithology	Remarks
135									
136	17	5.0/5.0	100	F	R4				
137									
138									
139								MIGMATITE mixture of GRANODIORITE and AMPHIBOLITE SCHIST white, light gray, and very dark gray (Gley 1 8/N, 7/N, 3/N); fine to medium grained; flowing/igneous texture; quartz, feldspar, biotite, hornblende	End of 6/23/06; water level at 40 ft Begin of 6/24/06
140									
141	18	5.0/5.0	100	F	R4				End of 6/24/06 Begin of 6/25/06
142									
143									
144								MIGMATITE mixture of GRANODIORITE, HORNBLENDE GNEISS and AMPHIBOLITE SCHIST; white and light gray and very dark gray (Gley 1 8/N, 7/N, 3/N); fine to medium grained; flowing/igneous texture; quartz, feldspar, biotite, hornblende	
145									
146	19	5.0/5.0	100	F	R4				
147									
148									
149									
150									
151	20	5.0/5.0	100	F	R4				
152									
153									
154								MIGMATITE; mixture of QUARTZ DIORITE, GRANODIORITE, AMPHIBOLITE SCHIST; white, light gray (Gley 1 8/N, 7/N, 3/N); fine to medium grained; flowing/igneous texture; quartz, feldspar, biotite	
155									
156	21	5.0/5.0	100	F	R4				
157									
158									
159								QUARTZ DIORITE; light gray, very dark gray (Gley 1 7/N, 3/N); fine to medium grained; igneous texture; quartz, feldspar, biotite	
160									
161	22	5.0/5.0	100	F	R4				
162									
163									
164									
165									
166	23	5.0/5.0	100	F	R4				
167									
168									
169									
170									
171	24	5.0/5.0	100	F	R4				
172									
173									
174									

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ROCK LOG - Boring No. B-301A

Depth (feet)	Run No.	Recovery / Cut	% RQD	Weathering	Strength	In-Situ Testing	Lithology	Lithology	Remarks
175-178	25	5.0/5.0	100	F	R4				
179-180								GRANODIORITE; white, gray, greenish gray (Gley 1 8/N, 5/N, 5/1); fine to coarse grained; igneous texture; quartz, feldspar, biotite, hornblende	
181-183	26	5.0/5.0	100	F	R4			HORNBLENDE GNEISS; gray (Gley 1 6/N); fine grained; banded texture; foliation at ~ 0°; hornblende, biotite, quartz, feldspar Pegmatite dike	
184-188	27	5.0/5.0	100	F	R4			Pegmatite dike Foliation at ~ 20°	
189-193	28	5.0/5.0	100	F	R4			MIGMATITE mixture of HORNBLENDE GNEISS, GRANODIORITE; QUARTZ DIORITE; white, light gray, very dark gray, greenish gray (Gley 1 8/N, 7/N, 3/N, 6/1); fine to medium grained; flow/igneous texture, quartz, feldspar, biotite, hornblende Pegmatite dike	
194-198	29	5.0/5.0	100	F	R4			GRANODIORITE; white, black, light gray (Gley 1 8/N, 7/N, 2.5/N); fine to medium grained; igneous texture Pegmatite dike QUARTZ DIORITE; light gray, very dark gray (Gley 1 3/N, 7/N); fine to medium grained; igneous texture; biotite, hornblende, feldspar, quartz	
199-203	30	5.0/5.0	100	F	R4			Pegmatite dike	
204-208	31	5.0/5.0	100	F	R4			QUARTZ DIORITE; light gray, very dark gray, greenish gray (Gley 1 3/N, 7/N, 6/1); fine to coarse grained; igneous texture; biotite, feldspar, quartz Migmatite texture	End of 6/25/06; water level at 20 ft Begin of 6/26/06
209-213	32	5.0/5.0	100	F	R4				
214								MIGMATITE; mixture of GRANODIORITE, QUARTZ DIORITE, and AMPHIBOLITE SCHIST;	

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ROCK LOG - Boring No. B-301A

Depth (feet)	Run No.	Recovery / Cut	% RQD	Weathering	Strength	In-Situ Testing	Lithology	Lithology	Remarks
215-218	33	5.0/5.0	100	F	R4			white, light gray, very dark gray, greenish gray (Gley 1 8/N, 7/N, 3/N, 6/1); fine to coarse grained, igneous/flowing texture, quartz, feldspar, biotite	
219-223	34	5.0/5.0	100	F	R4			MIGMATITE; mixture of GRANODIORITE and QUARTZ DIORITE; white, light gray, very dark gray, greenish gray (Gley 1 8/N, 7/N, 3/N, 6/1); fine to coarse grained, igneous/flowing texture, quartz, feldspar, biotite	
224-228	35	5.0/5.0	100	F	R4			Large pegmatite dike	End of 6/26/06 Begin of 6/27/06
229-233	36	5.0/5.0	100	F	R4			QUARTZ DIORITE; white, very dark gray, greenish gray (Gley 1 8/N, 3/N, 6/SG); fine to coarse grained; igneous/flowing texture; biotite, quartz, feratic igneous dikes	
234-238	37	5.0/5.0	100	F	R4			QUARTZ DIORITE; with zones of MIGMATITE; white, very dark gray, greenish gray (Gley 1 8/N, 3/N, 6/SG); fine to coarse grained; igneous/flowing texture; biotite, quartz, feldspar Large pegmatite dike from 235 to 237 ft	
239-243	38	5.0/5.0	100	F	R4			Pegmatite dike	
244-248	39	5.0/5.0	100	F	R4			QUARTZ DIORITE; white, very dark gray, greenish gray (Gley 1 8/N, 3/N, 6/SG); fine to coarse grained; igneous/flowing texture; biotite, quartz, feldspar	
249-253	40	5.0/5.0	100	F	R4			MIGMATITE; mixture of GRANODIORITE and QUARTZ DIORITE; white, light gray, very dark gray, greenish gray (Gley 1 8/N, 7/N, 3/N, 6/SG); fine to coarse grained, igneous/flowing texture, quartz, feldspar, biotite	
254								MIGMATITE; mixture of GRANODIORITE, QUARTZ DIORITE, BIOTITE GNEISS and	

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ROCK LOG - Boring No. B-301A

Depth (feet)	Run No.	Recovery / Cut	% RQD	Weathering	Strength	In-Situ Testing	Lithology	Lithology	Remarks
255	41	5.0/5.0	100	F	R4			AMPHIBOLITE SCHIST; white, light gray, very dark gray, greenish gray (Gley 1 8/N, 7/N, 3/N); fine to medium grained; flowing texture, quartz, feldspar, biotite	End of day 6/27/06 Begin of 7/5/06; water level at 52 ft
256									
257									
258									
259	42	5.0/5.0	100	F	R4			MIGMATITE, BIOTITE GNEISS; white, very dark gray (Gley 1 8/N, 3/N); fine grained; flowing texture; biotite, quartz, feldspar, hornblende.	
260									
261									
262									
263									
264	43	5.0/5.0	100	F	R4			QUARTZ DIORITE; greenish gray, very dark gray (Gley 1 3/N, 6/1); fine to medium grained; igneous texture; quartz, biotite, hornblende, feldspar from 266 to 268.3 ft	
265									
266									
267									
268									
269	44	5.0/5.0	100	F	R4			MIGMATITE mixture of GRANODIORITE, QUARTZ DIORITE, HORNBLENDE GNEISS; white, very dark gray, greenish gray (Gley 1 8/N, 3/N, 6/1); fine to medium grained; flowing texture; quartz, biotite, feldspar, hornblende Pegmatite dike	
270									
271									
272									
273									
274	45	5.0/5.0	100	F	R4			QUARTZ DIORITE; with zones of MIGMATITE; white, dark gray (Gley 1 4/N, 8/N); fine to medium grained; igneous/flowing texture, biotite, quartz, feldspar Igneous dike	
275									
276									
277									
278									
279	46	5.0/5.0	100	F	R4			MIGMATITE mixture of GRANODIORITE, QUARTZ DIORITE, HORNBLENDE GNEISS; white, very dark gray, greenish gray (Gley 1 8/N, 3/N, 6/N); fine to medium grained; flowing texture; quartz, biotite, feldspar, hornblende	End of 7/5/06; water level at 20 ft Begin 7/6/06; water level at 46 ft
280									
281									
282									
283									
284	47	5.0/5.0	100	F	R4			MIGMATITE mixture of QUARTZ DIORITE and HORNBLENDE GNEISS	
285									
286									
287								QUARTZ DIORITE; white, gray, very dark gray (gley 1 8/N, 5/N, 3/N); fine to medium grained; flowing texture, igneous from 286 ft; quartz, feldspar, biotite	
288									
289	48	5.0/5.0	100	F	R4			Amphibolite and pyrite xenolith at 288.8 to 289.1 ft	
290									
291									
292									
293								MIGMATITE white, gray (Gley 1 8/N, 5/N); fine to medium grained, igneous/flowing texture, quartz, feldspar, biotite, pyrite, epidote	
294									

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ROCK LOG - Boring No. B-301A

Depth (feet)	Run No.	Recovery / Cut	% RQD	Weathering	Strength	In-Situ Testing	Lithology	Lithology	Remarks
295-298	49	5.0/5.0	100	F	R4			HORNBLENDE GNEISS; white, gray, greenish gray (8/N, 4/N, 5/6); fine to medium grained; igneous to flowing texture, hornblende, quartz, feldspar, biotite, epidote	
299-303	50	5.0/5.0	100	F	R4			MIGMATITE mixture of HORNBLENDE GNEISS and QUARTZ DIORITE; white, gray (Gley 8/N, 4/N); fine to medium grained; flowing texture; quartz, feldspar, biotite, hornblende, epidote	
304-308	51	5.0/5.0	100	F	R4				End of 7/6/06; water level at 25 ft Begin 7/7/06; water level at 51 ft
309-313	52	5.0/5.0	100	F	R4			QUARTZ DIORITE; white, gray, dark gray (Gley 1 8/N, 5/N, 2.5/N); fine to coarse grained texture; quartz, feldspar, biotite	
314-318	53	5.0/5.0	100	F	R4			QUARTZ DIORITE; white, gray, dark gray (Gley 1 8/N, 2.5/N, 3/10 GY); quartz, feldspar, biotite, hornblende, epidote	
319-323	54	5.0/5.0	100	F	R4			MIGMATITE mixture of QUARTZ DIORITE and HORNBLENDE GNEISS, AMPHIBOLITE SCHIST; white, gray, greenish gray (Gley 1 8/N, 5/GY); fine to medium grained; grained to flowing texture; quartz, biotite, feldspar, hornblende, pyrite, amphibolite	
324-328	55	5.0/5.0	100	F	R4			MIGMATITE; mixture of GRANODIORITE, HORNBLENDE GNEISS, QUARTZ DIORITE, AMPHIBOLITE SCHIST; gray, very dark gray, greenish gray (Gley 1 7/N, 3/N, 3/5G); flowing and grained texture; hornblende, quartz biotite; amphibolite; epidote; pyrite	
329-333	56	5.0/5.0	100	F	R4			MIGMATITE; mixture of GRANODIORITE, HORNBLENDE GNEISS; gray, dark gray, and greenish gray (Gley 1 6/N, 2.5/N, 3/5G); fine to medium grained; banded and flowing texture; hornblende, quartz, biotite, feldspar, epidote, pyrite	
334									

Project Name : Job Number
MACTEC
SCE&G COL : 6234-06-3534

ROCK LOG - Boring No. B-301A

Depth (feet)	Run No.	Recovery / Cut	% RQD	Weathering	Strength	In-Situ Testing	Lithology	Lithology	Remarks
335-338	57	5.0/5.0	100	F	R4				
339-341	58	3.0/3.0	100	F	R4			SAA with increasing pyrite and epidote and pocket of chalcopyrite	
342-346	59	5.0/5.0	100	F	R4			MIGMATITE mixture of HORNBLENDE GNEISS and GRANODIORITE; gray, greenish gray, white (Gley 1 6/N, 4/5G, 8/N); fine to medium grained; flowing and igneous texture; hornblende, chalcopyrite, biotite, pyrite, quartz, feldspar	
347-350	60	4.6/4.6	100	F	R4			MIGMATITE; mixture of GRANODIORITE, QUARTZ DIORITE and BIOTITE GNEISS; gray, dark gray, and white (Gley 1 6/N, 4/N, 8/N); fine to medium grained; flowing and grained texture; quartz, biotite, feldspar, chalcopyrite, pyrite CORING TERMINATED AT 350.9 ft	End of 7/7/06 Begin 7/8/06; water level at 53 ft
351-374									Boring terminated on 7/8/06