

**STATE OF VERMONT
AGENCY OF TRANSPORTATION
MATERIALS & RESEARCH DIVISION
SUBSURFACE INFORMATION**

HOLE NO.: B-01
SHEET 1 OF 1
DATE STARTED: 10/2/02
DATE COMPLETED: 10/3/02

PROJECT NAME: MONTGOMERY
SITE NAME: BR 24
STATION: I+048.00
GROUND EL.: 254.916

PROJECT NUMBER: BRO 1448 (20)
SITE NO.: TH 35
OFFSET: 5.00
G.W. DEPTH: NO WATER FOUND

BORING CREW
CREW CHIEF: TALLMAN
DRILLER: TALLMAN
LOGGER: RUSSELL
ADDITIONAL CREW:

BORING RIG: LAG TRACK RIG
BORING TYPE: WASH BORE
SAMPLE TYPE: SPLIT BARREL

DEPTH	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER 0.3 m	M.C. %	GRAVEL %	SAND %	FINES %	LL	PI
			R	24.4	44	39.9	16.1		
		A-l-b, SaGr, brn, Moist, Rec. = 0.15m		Top of bedrock @ 1.20 m					
		Run#1: NXMDC, 1.2m-2.2m, Rec. = 0.70m, See Geologist's Report.	RUN	REC%	RQD%	Dip°			
		Run#2: NXMDC, 2.2m-3.7m, Rec. = 1.50m, See Geologist's Report.	1	70	0	40			
		Run#3: NXMDC, 3.7m-4.3m, Rec. = 0.60m, See Geologist's Report.	2	100	17	40-50			
			3	100	83	40-50			
Hole stopped @ 4.30m									
5		DRILLER'S NOTES: 1. A few very small rock breaks on Run#1 & Run#2.							
10									

GEOLOGISTS REPORT:

- Run#1: Gray quartz-sericite schist, Very closely spaced jointing along foliation planes, Jointing is rust stained, Moderately hard, Slightly to moderately weathered, Poor RQD, Poorly competent.
- Run#2: Gray quartz-sericite schist, Closely to moderately closely spaced jointing along foliation planes, Moderately hard, Slightly weathered, Poor RQD, Moderately competent.
- Run#3: Gray quartz-sericite schist, Closely to moderately closely spaced jointing along foliation planes, Moderately hard, Slightly weathered, Competent.

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HOLE NO.: B-02
SHEET 1 OF 1
DATE STARTED: 9/30/02
DATE COMPLETED: 10/2/02

PROJECT NAME: MONTGOMERY
SITE NAME: BR 24
STATION: I+060.00
GROUND EL.: 255.367

PROJECT NUMBER: BRO 1448 (20)
SITE NO.: TH 35
OFFSET: 4.00
G.W. DEPTH: NO WATER FOUND

BORING CREW
CREW CHIEF: TALLMAN
DRILLER: TALLMAN
LOGGER: RUSSELL
ADDITIONAL CREW:

BORING RIG: LAG TRACK RIG
BORING TYPE: WASH BORE
SAMPLE TYPE: SPLIT BARREL

DEPTH	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER 0.3 m	M.C. %	GRAVEL %	SAND %	FINES %	LL	PI
		A-1-b, GrSa with Trace of Organics (3.8%), brn, Moist, Rec. = 0.45m,	6	22.4	35.3	47.3	17.4		
		NXMDC, 1.7m-2.2m, Boulder							
				Top of bedrock @			2.43 m		
		Run#1: NXMDC, 2.43m-3.95m, Rec. = 1.05m, See Geologist's Report.	RUN	REC%	RQD%	Dip°			
			1	69	33	55			
		Run#2: NXMDC, 3.95m-5.47m, Rec. = 1.52m, See Geologist's Report.	2	100	90	55			
5									

Hole stopped @ 5.47m

DRILLER'S NOTES:

1. At 3.65m-3.80m we had brownish color water.

GEOLOGISTS REPORT:

Run#1: Gray quartz-sericite-albite-chlorite schist with thin graphitic partings, Moderately hard, Severely weathered from 2.78m to 3.03m, Poorly competent.

Run#2: Silver gray quartz-sericite-albite-chlorite schist with thin graphitic partings, Hard, Unweathered, Competent.

**STATE OF VERMONT
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HOLE NO.: B-03
SHEET 1 OF 1
DATE STARTED: 10/9/02
DATE COMPLETED: 10/10/02

PROJECT NAME: MONTGOMERY
SITE NAME: BR 24
STATION: I+073.00
GROUND EL.: 255.974

PROJECT NUMBER: BRO 1448 (20)
SITE NO.: TH 35
OFFSET: 4.50
G.W. DEPTH: NO WATER FOUND

BORING CREW
CREW CHIEF: TALLMAN
DRILLER: TALLMAN
LOGGER: RUSSELL
ADDITIONAL CREW:

BORING RIG: LAG TRACK RIG
BORING TYPE: WASH BORE
SAMPLE TYPE: SPLIT BARREL

DEPTH	SYMBOL	CLASSIFICATION OF MATERIALS <i>(Description)</i>	BLOWS PER 0.3 m	M.C. %	GRAVEL %	SAND %	FINES %	LL	PI
			37	20.8	56.9	29.9	13.2		
		A-l-a, SaGr, gry-brn, Moist, Rec. = 0.20m,							
		Run#1: NXMDC, 1.30m-2.82m, Rec. = 0.55m, See Geologist's Report.	RUN	REC%	RQD%	Dip°			
			1	36	7	60			
		Run#2: NXMDC, 2.82m-3.90m, Rec. = 1.02m, See Geologist's Report.	2	94	46	60			
Hole stopped @ 3.90m									
5									
10									

GEOLOGISTS REPORT:

Run#1: Gray quartz-sericite-albite-chlorite schist,
Soft to moderately hard, Severely weathered, Poorly competent.

Run#2: Gray quartz-sericite-albite-chlorite schist,
Mineralized near-vertical joint surface from 3.52m to 3.84m,
Moderately hard, Unweathered, Fairly competent.

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HOLE NO.: B-04
SHEET 1 OF 1
DATE STARTED: 10/3/02
DATE COMPLETED: 10/3/02

PROJECT NAME: MONTGOMERY
SITE NAME: BR 24
STATION: I+084.60
GROUND EL.: 256.818

PROJECT NUMBER: BRO 1448 (20)
SITE NO.: TH 35
OFFSET: -3.00
G.W. DEPTH: NO WATER FOUND

BORING CREW
CREW CHIEF: TALLMAN
DRILLER: TALLMAN
LOGGER: RUSSELL
ADDITIONAL CREW:

BORING RIG: LAG TRACK RIG
BORING TYPE: WASH BORE
SAMPLE TYPE: SPLIT BARREL

DEPTH	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER 0.3 m	M.C. %	GRAVEL %	SAND %	FINES %	LL	PI
				Top of bedrock @ 0.90 m					
		Run#1: NXMDC, 0.90m-2.42m, Rec. = 1.17m, See Geologist's Report.	RUN	REC%	RQD%	Dip°			
			1	77	24	60			
		Run#2: NXMDC, 2.42m-3.94m, Rec. = 1.52m, See Geologist's Report.	2	100	41	60			
		Run#3: NXMDC, 3.94m-4.39m, Rec. = 0.40m, See Geologist's Report.	3	89	89	60			
			Hole stopped @ 4.39m						
5									
		DRILLER'S NOTES: 1. Rock break at 1.37m-1.47m.							
10									

GEOLOGISTS REPORT:

- Run#1: Gray quartz-sericite-chlorite schist, Close to moderately close spaced jointing along foliation planes, Jointing is rust stained, Moderately hard, Most of Run is slightly to moderately weathered, Moderately severe weathering from 1.62m to 1.90m, Poorly Competent.
- Run#2: Gray quartz-sericite-chlorite schist, Close to moderately close spaced jointing along foliation planes, Jointing is rust stained, Moderately hard, Most of Run is slightly to moderately weathered, Moderately severe weathering from 2.72m to 3.13m, Poorly Competent.
- Run#3: Gray quartz-sericite-chlorite schist, Close to moderately close spaced jointing along foliation planes, Unweathered, Competent.

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HOLE NO.: B-05
SHEET 1 OF 1
DATE STARTED: 10/7/02
DATE COMPLETED: 10/8/02

PROJECT NAME: MONTGOMERY
SITE NAME: BR 24
STATION: I+086.50
GROUND EL.: 256.763

PROJECT NUMBER: BRO 1448 (20)
SITE NO.: TH 35
OFFSET: -0.60
G.W. DEPTH: NO WATER FOUND

BORING CREW
CREW CHIEF: TALLMAN
DRILLER: TALLMAN
LOGGER: RUSSELL
ADDITIONAL CREW:

BORING RIG: LAG TRACK RIG
BORING TYPE: WASH BORE
SAMPLE TYPE: SPLIT BARREL

DEPTH	SYMBOL	CLASSIFICATION OF MATERIALS <i>(Description)</i>	BLOWS PER 0.3 m	M.C. %	GRAVEL %	SAND %	FINES %	LL	PI
							Top of bedrock @ 0.90 m		
		Run#1: NXMDC, 0.90m-2.40m, Rec. = 0.62m, See Geologist's Report.	RUN	REC%	RQD%	Dip°			
			1	41	0	?			
		Run#2: NXMDC, 2.40m-3.90m, Rec. = 1.17m, See Geologist's Report.	2	78	10	60			
		Run#3: NXMDC, 3.90m-5.42m, Rec. = 1.52m, See Geologist's Report.	3	100	66	60			
5									
			Hole stopped @ 5.42m						
		DRILLER'S NOTES: 1. Various small Rock Breaks at 2.28m-2.40m.							
10									

GEOLOGISTS REPORT:

Run#1: Gray quartz-sericite-chlorite schist, Soft, Severely weathered, Poorly competent.

Run#2: Gray quartz-sericite-chlorite-albite schist, Moderately hard, Upper and lower portions of Run are unweathered to moderately weathered, Severely weathered from 2.80m to 3.20m, Poorly competent.

Run#3: Gray quartz-sericite-chlorite-albite schist, Moderately hard, Unweathered, Competent

**STATE OF VERMONT
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HOLE NO.: B-06
SHEET 1 OF 1
DATE STARTED: 10/8/02
DATE COMPLETED: 10/9/02

PROJECT NAME: MONTGOMERY
SITE NAME: BR 24
STATION: I+085.00
GROUND EL.: 256.388

PROJECT NUMBER: BRO 1448 (20)
SITE NO.: TH 35
OFFSET: 3.00
G.W. DEPTH: NO WATER FOUND

BORING CREW
CREW CHIEF: TALLMAN
DRILLER: TALLMAN
LOGGER: RUSSELL
ADDITIONAL CREW:

BORING RIG: LAG TRACK RIG
BORING TYPE: WASH BORE
SAMPLE TYPE: SPLIT BARREL

DEPTH	SYMBOL	CLASSIFICATION OF MATERIALS <i>(Description)</i>	BLOWS PER 0.3 m	M.C. %	GRAVEL %	SAND %	FINES %	LL	PI
				Top of bedrock @ 0.90 m					
		Run#1: NXMDC, 0.90m-2.42m, Rec. = 0.70m, See Geologist's Report.	RUN	REC%	RQD%	Dip°			
			1	46	7	55			
		Run#2: NXMDC, 2.42m-3.97m, Rec. = 1.52m, See Geologist's Report.	2	100	66	60			
		Run#3: NXMDC, 3.97m-5.49m, Rec. = 0.74m, See Geologist's Report.	3	49	37	60			
5									
		Hole stopped @ 5.49m							
10									

GEOLOGISTS REPORT:

Run#1: Gray quartz-sericite-chlorite-albite schist,
Moderately hard, Moderately severely weathered,
Moderately competent, Poor RQD.

Run#2: Gray quartz-sericite-chlorite-albite schist, Moderately hard,
Some pitting, Top 0.2m of Run severely weathered,
Remainder of Run unweathered to slightly weathered, Competent.

Run#3: Gray quartz-sericite-chlorite-albite schist, Moderately hard,
Unweathered, Poor to fair recovery, Poor RQD.

STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH DIVISION SUBSURFACE INFORMATION	HOLE NO.: B-07 SHEET 1 OF 1 DATE STARTED: 10/16/02 DATE COMPLETED: 10/16/02
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PROJECT NAME: MONTGOMERY SITE NAME: BR 24 STATION: I+12.50 GROUND EL.: 255.946	PROJECT NUMBER: BRO 1448 (20) SITE NO.: TH 35 OFFSET: 3.40 G.W. DEPTH: NO WATER FOUND
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BORING CREW CREW CHIEF: TALLMAN DRILLER: TALLMAN LOGGER: RUSSELL ADDITIONAL CREW:	BORING RIG: LAG TRACK RIG BORING TYPE: WASH BORE SAMPLE TYPE: SPLIT BARREL
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DEPTH	SYMBOL	CLASSIFICATION OF MATERIALS <i>(Description)</i>	BLOWS PER 0.3 m	M.C. %	GRAVEL %	SAND %	FINES %	LL	PI
				Top of bedrock @ 0.90 m					
		Run#1: NXMDC, 0.90m-2.42m, Rec. = 0.65m, See Geologist's Report.	RUN	REC%	RQD%	Dip°			
			1	43	17	40-60			
		Run#2: NXMDC, 2.42m-3.94m, Rec. = 1.52m, See Geologist's Report.	2	100	90	60			
		Hole stopped @ 3.94m							
5		DRILLER'S NOTES: 1. Rock Breaks at 1.65m-1.70m.							
10									

GEOLOGISTS REPORT:

Run#1; Gray quartz-sericite-albite-chlorite schist,
 Drilling break from 1.65m to 1.70m, Moderately hard,
 Slightly weathered, Fair to poorly competent.

Run#2; Silver gray quartz-sericite-albite-chlorite schist
 with graphitic partings, Moderately hard, Unweathered, Competent.

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HOLE NO.: B-09
SHEET 1 OF 1
DATE STARTED: 10/17/02
DATE COMPLETED: 10/17/02

PROJECT NAME: MONTGOMERY
SITE NAME: BR 24
STATION: I+113.40
GROUND EL.: 256.181

PROJECT NUMBER: BRO 1448 (20)
SITE NO.: TH 35
OFFSET: 0.00
G.W. DEPTH: NO WATER FOUND

BORING CREW
CREW CHIEF: RUSSELL
DRILLER: RUSSELL
LOGGER: GARROW
ADDITIONAL CREW:

BORING RIG: LAG TRACK RIG
BORING TYPE: WASH BORE
SAMPLE TYPE: SPLIT BARREL

DEPTH	SYMBOL	CLASSIFICATION OF MATERIALS <i>(Description)</i>	BLOWS PER 0.3 m	M.C. %	GRAVEL %	SAND %	FINES %	LL	PI
				Top of bedrock @ 0.70 m					
		Run#1: NXMDC, 0.70m-2.22m, Rec. = 1.28m, See Geologist's Report.	RUN	REC%	RQD%	Dip°			
			1	84	66	60			
		Run#2: NXMDC, 2.22m-3.74m, Rec. = 1.45m, See Geologist's Report.	2	95	86	60			
		Hole stopped @ 3.74m							
5									
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GEOLOGISTS REPORT:

Run#1: Silver gray quartz-sericite-albite-chlorite schist, Hard,
Top 0.3m severely weathered, Unweathered below 1.00m,
Competent below 1.00m.

Run#2: Silver gray quartz-sericite-albite-chlorite schist, Hard,
Unweathered, Competent.

**STATE OF VERMONT
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HOLE NO.: B-10
SHEET 1 OF 1
DATE STARTED: 10/21/02
DATE COMPLETED: 10/22/02

PROJECT NAME: MONTGOMERY
SITE NAME: BR 24
STATION: I+110.00
GROUND EL.: 255.330

PROJECT NUMBER: BRO 1448 (20)
SITE NO.: TH 35
OFFSET: 0.00
G.W. DEPTH: NO WATER FOUND

BORING CREW
CREW CHIEF: TALLMAN
DRILLER: TALLMAN
LOGGER: RUSSELL
ADDITIONAL CREW:

BORING RIG: LAG TRACK RIG
BORING TYPE: WASH BORE
SAMPLE TYPE: SPLIT BARREL

DEPTH	SYMBOL	CLASSIFICATION OF MATERIALS <i>(Description)</i>	BLOWS PER 0.3 m	M.C. %	GRAVEL %	SAND %	FINES %	LL	PI
				Top of bedrock @		0.60 m			
		Run#1: NXMDC, 0.60m-2.12m, Rec. = 1.52m, See Geologist's Report.	RUN	REC%	RQD%	Dip°			
			1	100	100	60			
		Run#2: NXMDC, 2.12m-3.64m, Rec. = 1.52m, See Geologist's Report.	2	100	100	60			
		Hole stopped @ 3.64m							
5									
10									

GEOLOGISTS REPORT:

Run#1: Silver gray quartz-sericite-albite-chlorite schist,
Hard, Unweathered, Competent.

Run#2: Silver gray quartz-sericite-albite-chlorite schist,
Hard, Unweathered, Competent.