

APPENDIX G - Laboratory Test Data – Rock – No Change for Rev. 4

- G.1 – Unconfined Compression Test Results
- G.2 – Unconfined Compression with Stress/Strain Test Results
- G.3 – Direct Shear Test Results
- G.4 – Carbonate Content Test Results
- G.5 – Slake Durability Test Results
- G.6 - Moisture Content, Specific Gravity, Unit Weight and
Dimension Results

APPENDIX G.1 –Unconfined Compressed Test Results

No Change for Rev. 4



Test Data Sheet for Compressive Strength of Intact Rock Core Specimens without Strain Measurement

ASTM D 7012-10, Method C (with deviations per SDDR-33)

Page 1 of 1

Test Date	10-22-13
Project Name	Clinch River SMR
Project No.	6468-13-1072
Boring No. & Run No.	Boring No.: MP-101 Run No.: N/A
Sample No.	L1-1 BG
Sample Depth, (ft)	48.6'-50.1'
Lithologic Sample Description	See Boring Log
Load Direction (with respect to lithology)	Vertical
Moisture Condition at Time of Test	Laboratory Air-Dry
Average Diameter from Dimension Log, (in.)	2.38
Average Length from Dimension Log, (in)	5.57
Mass from Dimension Log, (g)	1086.80
Conforms to ASTM D4543 Dimensional Requirements? If no, explain below.	No, see Dimension Log
Temperature at Time of Test	Room temperature (71°F)
Loading Rate, (lb/sec)	160
Maximum Load, (lb)	10220
Description of Specimen After Test (Include Photograph ID No.)	Columnar MP-101 L1-1 After Testing.JPG
Uniaxial Compressive Strength, (psi)	2297
Tested by / Date	MEH 10-22-13 MEH 1/11/14
Reviewed by / Date	TL 10-24-13 TL 1/13/14

Notes:

Approval to proceed with testing provided by

Mr. John Davie with Bechtel on 10-22-13

Post-Test Photo:



Equipment Used	ID No.	Calibration Due
Loading Device	CLT-0004	5/22/14
Thermometer	CLT-0555	9/19/14
Bearing Blocks	CLT-0054	2/3/14
Bearing Surface	CLT-0716	1/25/14
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Test Data Sheet for Compressive Strength of Intact Rock Core Specimens without Strain Measurement

ASTM D 7012-10, Method C (with deviations per SDDR-33)

Page 1 of 1

Test Date	11-5-13
Project Name	Clinch River SMR
Project No.	6468-13-1072
Boring No. & Run No.	Boring No.: MP-101 Run No.: N/A
Sample No.	L1-2 BG <i>yes 3/4/14</i>
Sample Depth, (ft)	66.1'-67.3'
Lithologic Sample Description	See Boring Log
Load Direction (with respect to lithology)	Vertical
Moisture Condition at Time of Test	Laboratory Air-Dry
Average Diameter from Dimension Log, (in.)	2.38
Average Length from Dimension Log, (in)	5.42
Mass from Dimension Log, (g)	900.35
Conforms to ASTM D4543 Dimensional Requirements? If no, explain below.	No, see Dimension Log
Temperature at Time of Test	Room temperature (72.6°F)
Loading Rate, (lb/sec)	100
Maximum Load, (lb)	25180
Description of Specimen After Test (Include Photograph ID No.)	Columnar MP-101 L1-2 G after test.JPG
Uniaxial Compressive Strength, (psi)	5658
Tested by / Date	MEH 11-5-13
Reviewed by / Date	TL 11-27-13

Notes:

Approval to proceed with testing provided by

Mr. John Davie with Bechtel on 11-5-13

Post-Test Photo:



Equipment Used	ID No.	Calibration Due
Loading Device	CLT-0004	5/22/14
Thermometer	CLT-0555	9/19/14
Bearing Blocks	CLT-0054	2/3/14
Bearing Surface	CLT-0716	1/25/14
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Test Data Sheet for Compressive Strength of Intact Rock Core Specimens without Strain Measurement

ASTM D 7012-10, Method C (with deviations per SDDR-33)

Page 1 of 1

Test Date	11-5-13
Project Name	Clinch River SMR
Project No.	6468-13-1072
Boring No. & Run No.	Boring No.: MP-101 Run No.: N/A
Sample No.	L1-4 G
Sample Depth, (ft)	127.2'-128.1'
Lithologic Sample Description	See Boring Log
Load Direction (with respect to lithology)	Vertical
Moisture Condition at Time of Test	Laboratory Air-Dry
Average Diameter from Dimension Log, (in.)	2.38
Average Length from Dimension Log, (in)	4.65
Mass from Dimension Log, (g)	914.88
Conforms to ASTM D4543 Dimensional Requirements? If no, explain below.	No, see Dimension Log
Temperature at Time of Test	Room temperature (72.9°F)
Loading Rate, (lb/sec)	100
Maximum Load, (lb)	10580
Description of Specimen After Test (Include Photograph ID No.)	Shear MP-101 L1-4 G after test.JPG
Uniaxial Compressive Strength, (psi)	2378
Tested by / Date	MEH 11-5-13 MEH 1/11/14
Reviewed by / Date	TL 11-27-13 1/13/14

Notes:

Approval to proceed with testing provided by

Mr. John Davie with Bechtel on 11-5-13

Post-Test Photo:



Equipment Used	ID No.	Calibration Due
Loading Device	CLT-0004	5/22/14
Thermometer	CLT-0555	9/19/14
Bearing Blocks	CLT-0054	2/3/14
Bearing Surface	CLT-0716	1/25/14
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Test Data Sheet for Compressive Strength of Intact Rock Core Specimens without Strain Measurement

ASTM D 7012-10, Method C (with deviations per SDDR-33)

Page 1 of 1

Test Date	11-15-13
Project Name	Clinch River SMR
Project No.	6468-13-1072
Boring No. & Run No.	Boring No.: MP-101 Run No.: N/A
Sample No.	L1-5 BCG
Sample Depth, (ft)	148.7'-149.7'
Lithologic Sample Description	See Boring Log
Load Direction (with respect to lithology)	Vertical
Moisture Condition at Time of Test	Laboratory Air-Dry
Average Diameter from Dimension Log, (in.)	2.39
Average Length from Dimension Log, (in)	4.86
Mass from Dimension Log, (g)	964.26
Conforms to ASTM D4543 Dimensional Requirements? If no, explain below.	No, see Dimension Log
Temperature at Time of Test	Room temperature (70.6°F)
Loading Rate, (lb/sec)	100
Maximum Load, (lb)	31430
Description of Specimen After Test (Include Photograph ID No.)	Columnar MP-101 L1-5 BCG after test.JPG
Uniaxial Compressive Strength, (psi)	7000
Tested by / Date	MEH 11-15-13 MEH 1/11/14
Reviewed by / Date	TL 11-27-13 TL 1/13/14

Notes:

Approval to proceed with testing provided by

Mr. John Davie with Bechtel on 11-15-13

Post-Test Photo:



Equipment Used	ID No.	Calibration Due
Loading Device	CLT-0004	5/22/14
Thermometer	CLT-0555	9/19/14
Bearing Blocks	CLT-0054	2/3/14
Bearing Surface	CLT-0716	1/25/14
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Test Data Sheet for Compressive Strength of Intact Rock Core Specimens without Strain Measurement

ASTM D 7012-10, Method C (with deviations per SDDR-33)

Page 1 of 1

Test Date	11-5-13
Project Name	Clinch River SMR
Project No.	6468-13-1072
Boring No. & Run No.	Boring No.: MP-101 Run No.: N/A
Sample No.	L1-6 G
Sample Depth, (ft)	186.6'-187.5'
Lithologic Sample Description	See Boring Log
Load Direction (with respect to lithology)	Vertical
Moisture Condition at Time of Test	Laboratory Air-Dry
Average Diameter from Dimension Log, (in.)	2.39
Average Length from Dimension Log, (in)	4.71
Mass from Dimension Log, (g)	914.88
Conforms to ASTM D4543 Dimensional Requirements? If no, explain below.	No, see Dimension Log
Temperature at Time of Test	Room temperature (72.2°F)
Loading Rate, (lb/sec)	100
Maximum Load, (lb)	17180
Description of Specimen After Test (Include Photograph ID No.)	Shear MP-101 L1-6-G after test (2).JPG
Uniaxial Compressive Strength, (psi)	3826
Tested by / Date	MEH 11-5-13 <i>MEH 1/11/14</i>
Reviewed by / Date	TL 11-27-13 <i>TL 1/13/14</i>

Notes:

Approval to proceed with testing provided by

Mr. John Davie with Bechtel on 11-5-13

Post-Test Photo:



Equipment Used	ID No.	Calibration Due
Loading Device	CLT-0004	5/22/14
Thermometer	CLT-0555	9/19/14
Bearing Blocks	CLT-0054	2/3/14
Bearing Surface	CLT-0716	1/25/14
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Test Data Sheet for Compressive Strength of Intact Rock Core Specimens without Strain Measurement

ASTM D 7012-10, Method C (with deviations per SDDR-33)

Page 1 of 1

Test Date	11-5-13
Project Name	Clinch River SMR
Project No.	6468-13-1072
Boring No. & Run No.	Boring No.: MP-101 Run No.: N/A
Sample No.	L1-8 BG
Sample Depth, (ft)	251.8'-253.6'
Lithologic Sample Description	See Boring Log
Load Direction (with respect to lithology)	Vertical
Moisture Condition at Time of Test	Laboratory Air-Dry
Average Diameter from Dimension Log, (in.)	2.39
Average Length from Dimension Log, (in)	5.50
Mass from Dimension Log, (g)	926.60
Conforms to ASTM D4543 Dimensional Requirements? If no, explain below.	No, see Dimension Log
Temperature at Time of Test	Room temperature (72.9°F)
Loading Rate, (lb/sec)	100
Maximum Load, (lb)	56920
Description of Specimen After Test (Include Photograph ID No.)	Columnar MP-101 L1-8 BG after test (2).JPG
Uniaxial Compressive Strength, (psi)	12677
Tested by / Date	MEH 11-5-13 MEH 11/11/14
Reviewed by / Date	TL 11-27-13 12/13/14

Notes:

Approval to proceed with testing provided by

Mr. John Davie with Bechtel on 11-5-13

Post-Test Photo:



Equipment Used	ID No.	Calibration Due
Loading Device	CLT-0004	5/22/14
Thermometer	CLT-0555	9/19/14
Bearing Blocks	CLT-0054	2/3/14
Bearing Surface	CLT-0716	1/25/14
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Test Data Sheet for Compressive Strength of Intact Rock Core Specimens without Strain Measurement

ASTM D 7012-10, Method C (with deviations per SDDR-33)

Page 1 of 1

Test Date	11-15-13
Project Name	Clinch River SMR
Project No.	6468-13-1072
Boring No. & Run No.	Boring No.: MP-101 Run No.: N/A
Sample No.	L1-9 G
Sample Depth, (ft)	272.9'-273.6'
Lithologic Sample Description	See Boring Log
Load Direction (with respect to lithology)	Vertical
Moisture Condition at Time of Test	Laboratory Air-Dry
Average Diameter from Dimension Log, (in.)	2.40
Average Length from Dimension Log, (in)	5.37
Mass from Dimension Log, (g)	1063.75
Conforms to ASTM D4543 Dimensional Requirements? If no, explain below.	No, see Dimension Log
Temperature at Time of Test	Room temperature (70.7°F)
Loading Rate, (lb/sec)	100
Maximum Load, (lb)	72280
Description of Specimen After Test (Include Photograph ID No.)	Columnar MP-101 L1-9 G after test.JPG
Uniaxial Compressive Strength, (psi)	15991
Tested by / Date	MEH 11-15-13 ^{MSH} 1/11/14
Reviewed by / Date	TL 11-27-13 ^{MSH} 1/13/14

Notes:

Approval to proceed with testing provided by

Mr. John Davie with Bechtel on 11-15-13

Post-Test Photo:



Equipment Used	ID No.	Calibration Due
Loading Device	CLT-0004	5/22/14
Thermometer	CLT-0555	9/19/14
Bearing Blocks	CLT-0054	2/3/14
Bearing Surface	CLT-0716	1/25/14
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Test Data Sheet for Compressive Strength of Intact Rock Core Specimens without Strain Measurement

ASTM D 7012-10, Method C (with deviations per SDDR-33)

Page 1 of 1

Test Date	11-15-13
Project Name	Clinch River SMR
Project No.	6468-13-1072
Boring No. & Run No.	Boring No.: MP-101 Run No.: N/A
Sample No.	L1-11 BG
Sample Depth, (ft)	351.9'-353.1'
Lithologic Sample Description	See Boring Log
Load Direction (with respect to lithology)	Vertical
Moisture Condition at Time of Test	Laboratory Air-Dry
Average Diameter from Dimension Log, (in.)	2.39
Average Length from Dimension Log, (in)	5.18
Mass from Dimension Log, (g)	1027.75
Conforms to ASTM D4543 Dimensional Requirements? If no, explain below.	No, see Dimension Log
Temperature at Time of Test	Room temperature (71.0°F)
Loading Rate, (lb/sec)	130
Maximum Load, (lb)	51390
Description of Specimen After Test (Include Photograph ID No.)	Columnar MP-101 L1-11 BG after test.JPG
Uniaxial Compressive Strength, (psi)	11445
Tested by / Date	MEH 11-15-13 MEH 1/11/14
Reviewed by / Date	TL 11-27-13 J 1/13/14

Notes:

Approval to proceed with testing provided by

Mr. John Davie with Bechtel on 11-15-13

Post-Test Photo:



Equipment Used	ID No.	Calibration Due
Loading Device	CLT-0004	5/22/14
Thermometer	CLT-0555	9/19/14
Bearing Blocks	CLT-0054	2/3/14
Bearing Surface	CLT-0716	1/25/14
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Test Data Sheet for Compressive Strength of Intact Rock Core Specimens without Strain Measurement

ASTM D 7012-10, Method C (with deviations per SDDR-33)

Page 1 of 1

Test Date	11-15-13
Project Name	Clinch River SMR
Project No.	6468-13-1072
Boring No. & Run No.	Boring No.: MP-101 Run No.: N/A
Sample No.	L1-12 G
Sample Depth, (ft)	396.9'-397.9'
Lithologic Sample Description	See Boring Log
Load Direction (with respect to lithology)	Vertical
Moisture Condition at Time of Test	Laboratory Air-Dry
Average Diameter from Dimension Log, (in.)	2.39
Average Length from Dimension Log, (in)	4.61
Mass from Dimension Log, (g)	913.70
Conforms to ASTM D4543 Dimensional Requirements? If no, explain below.	No, see Dimension Log
Temperature at Time of Test	Room temperature (70.5°F)
Loading Rate, (lb/sec)	130
Maximum Load, (lb)	23000
Description of Specimen After Test (Include Photograph ID No.)	Columnar/ slight shear MP-101 L1-12 G after test (2).JPG
Uniaxial Compressive Strength, (psi)	5122
Tested by / Date	MEH 11-15-13 MEH 1/11/14
Reviewed by / Date	TL 11-27-13 TL 1/13/14

Notes:

Approval to proceed with testing provided by

Mr. John Davie with Bechtel on 11-15-13

Post-Test Photo:



Equipment Used	ID No.	Calibration Due
Loading Device	CLT-0004	5/22/14
Thermometer	CLT-0555	9/19/14
Bearing Blocks	CLT-0054	2/3/14
Bearing Surface	CLT-0716	1/25/14
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Test Data Sheet for Compressive Strength of Intact Rock Core Specimens without Strain Measurement

ASTM D 7012-10, Method C (with deviations per SDDR-33)

Page 1 of 1

Test Date	11-22-13
Project Name	Clinch River SMR
Project No.	6468-13-1072
Boring No. & Run No.	Boring No.: MP-101 Run No.: N/A
Sample No.	L1-14 BG
Sample Depth, (ft)	498.2'-499.0'
Lithologic Sample Description	See Boring Log
Load Direction (with respect to lithology)	Vertical
Moisture Condition at Time of Test	Laboratory Air-Dry
Average Diameter from Dimension Log, (in.)	2.39
Average Length from Dimension Log, (in)	5.01
Mass from Dimension Log, (g)	995.47
Conforms to ASTM D4543 Dimensional Requirements? If no, explain below.	No, see Dimension Log
Temperature at Time of Test	Room temperature (68.3°F)
Loading Rate, (lb/sec)	130
Maximum Load, (lb)	23360
Description of Specimen After Test (Include Photograph ID No.)	Columnar MP-101 L1-14 BG After Test (3).JPG
Uniaxial Compressive Strength, (psi)	5203
Tested by / Date	MEH 11-22-13 MEH 1/11/14
Reviewed by / Date	TL 11-27-13 JF 1/13/14

Notes:

Approval to proceed with testing provided by

Mr. John Davie with Bechtel on 11-21-13

Post-Test Photo:



Equipment Used	ID No.	Calibration Due
Loading Device	CLT-0004	5/22/14
Thermometer	CLT-0555	9/19/14
Bearing Blocks	CLT-0054	2/3/14
Bearing Surface	CLT-0716	1/25/14
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Test Data Sheet for Compressive Strength of Intact Rock Core Specimens without Strain Measurement

ASTM D 7012-10, Method C (with deviations per SDDR-33)

Page 1 of 1

Test Date	1-30-14
Project Name	Clinch River SMR
Project No.	6468-13-1072
Boring No. & Run No.	Boring No.: MP-107 Run No.: N/A
Sample No.	L3-15-BG
Sample Depth, (ft)	159.6 - 160.7
Lithologic Sample Description	See Boring Log
Load Direction (with respect to lithology)	Vertical
Moisture Condition at Time of Test	Laboratory Air-Dry
Average Diameter from Dimension Log, (in.)	2.39
Average Length from Dimension Log, (in)	5.69
Mass from Dimension Log, (g)	1123.17
Conforms to ASTM D4543 Dimensional Requirements? If no, explain below.	No, see Dimension Log
Temperature at Time of Test	Room temperature (72.0°F)
Loading Rate, (lb/sec)	160
Maximum Load, (lb)	36370
Description of Specimen After Test (Include Photograph ID No.)	Columnar MP-107 L3-15 BG after test (2).JPG
Uniaxial Compressive Strength, (psi)	8100
Tested by / Date	MEH 1-30-14 MEH 1/31/14
Reviewed by / Date	TL 1-31-14 TL 1/31/14

Notes:

Approval to proceed with testing provided by

Mr. John Damm with Bechtel on 1-29-14.

Post-Test Photo:



Equipment Used	ID No.	Calibration Due
Loading Device	CLT-0004	5/22/14
Thermometer	CLT-0555	9/19/14
Bearing Blocks	CLT-0054	2/3/14
Bearing Surface	CLT-0716	5/26/14
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Test Data Sheet for Compressive Strength of Intact Rock Core Specimens without Strain Measurement

ASTM D 7012-10, Method C (with deviations per SDDR-33)

Page 1 of 1

Test Date	1-30-14
Project Name	Clinch River SMR
Project No.	6468-13-1072
Boring No. & Run No.	Boring No.: MP-109 Run No.: N/A
Sample No.	L3-16-BG
Sample Depth, (ft)	88.0 - 88.8
Lithologic Sample Description	See Boring Log
Load Direction (with respect to lithology)	Vertical
Moisture Condition at Time of Test	Laboratory Air-Dry
Average Diameter from Dimension Log, (in.)	2.40
Average Length from Dimension Log, (in)	5.40
Mass from Dimension Log, (g)	1077.90
Conforms to ASTM D4543 Dimensional Requirements? If no, explain below.	No, see Dimension Log
Temperature at Time of Test	Room temperature (72.4°F)
Loading Rate, (lb/sec)	160
Maximum Load, (lb)	28820
Description of Specimen After Test (Include Photograph ID No.)	Shear with columnar MP-109 L3-16 BG after test (2).JPG
Uniaxial Compressive Strength, (psi)	6376
Tested by / Date	MEH 1-30-14 MEH 1/31/14
Reviewed by / Date	TL 1-31-14 TL 1/31/14

Notes:

Approval to proceed with testing provided by

Mr. John Damm with Bechtel on 1-29-14.

Post-Test Photo:



Equipment Used	ID No.	Calibration Due
Loading Device	CLT-0004	5/22/14
Thermometer	CLT-0555	9/19/14
Bearing Blocks	CLT-0054	2/3/14
Bearing Surface	CLT-0716	5/26/14
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Test Data Sheet for Compressive Strength of Intact Rock Core Specimens without Strain Measurement

ASTM D 7012-10, Method C (with deviations per SDDR-33)

Page 1 of 1

Test Date	1-30-14
Project Name	Clinch River SMR
Project No.	6468-13-1072
Boring No. & Run No.	Boring No.: MP-109 Run No.: N/A
Sample No.	L3-18-BG
Sample Depth, (ft)	151.8 - 152.8
Lithologic Sample Description	See Boring Log
Load Direction (with respect to lithology)	Vertical
Moisture Condition at Time of Test	Laboratory Air-Dry
Average Diameter from Dimension Log, (in.)	2.39
Average Length from Dimension Log, (in)	5.38
Mass from Dimension Log, (g)	1071.13
Conforms to ASTM D4543 Dimensional Requirements? If no, explain below.	No, see Dimension Log
Temperature at Time of Test	Room temperature (72.3°F)
Loading Rate, (lb/sec)	160
Maximum Load, (lb)	32510
Description of Specimen After Test (Include Photograph ID No.)	Shear with columnar MP-109 L3-18 BG after test (3).JPG
Uniaxial Compressive Strength, (psi)	7241
Tested by / Date	MEH 1-30-14 MEH 1/31/14
Reviewed by / Date	TL 1-31-14 TL 1/31/14

Notes:

Approval to proceed with testing provided by

Mr. John Damm with Bechtel on 1-29-14.

Post-Test Photo:



Equipment Used	ID No.	Calibration Due
Loading Device	CLT-0004	5/22/14
Thermometer	CLT-0555	9/19/14
Bearing Blocks	CLT-0054	2/3/14
Bearing Surface	CLT-0716	5/26/14
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Test Data Sheet for Compressive Strength of Intact Rock Core Specimens without Strain Measurement

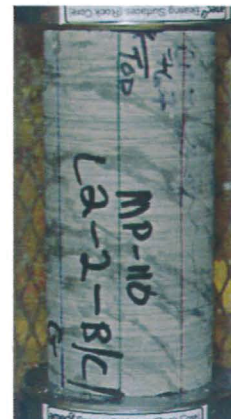
ASTM D 7012-10, Method C (with deviations per SDDR-33)

Page 1 of 1

Test Date	12-19-13
Project Name	Clinch River SMR
Project No.	6468-13-1072
Boring No. & Run No.	Boring No.: MP-110 Run No.: N/A
Sample No.	L2-2 BCG
Sample Depth, (ft)	76.7'-77.5'
Lithologic Sample Description	See Boring Log
Load Direction (with respect to lithology)	Vertical
Moisture Condition at Time of Test	Laboratory Air-Dry
Average Diameter from Dimension Log, (in.)	2.40
Average Length from Dimension Log, (in)	5.03
Mass from Dimension Log, (g)	1004.49
Conforms to ASTM D4543 Dimensional Requirements? If no, explain below.	Yes, see Dimension Log
Temperature at Time of Test	Room temperature (73.3°F)
Loading Rate, (lb/sec)	130
Maximum Load, (lb)	22050
Description of Specimen After Test (Include Photograph ID No.)	Shear/ columnar between planes MP-110 L2-2 BCG after test.JPG
Uniaxial Compressive Strength, (psi)	4878
Tested by / Date	MEH 12-19-13 MEH 1/11/14
Reviewed by / Date	TL 12-20-13 TL 1/13/14

Notes:

Post-Test Photo:



Equipment Used	ID No.	Calibration Due
Loading Device	CLT-0004	5/22/14
Thermometer	CLT-0555	9/19/14
Bearing Blocks	CLT-0054	2/3/14
Bearing Surface	CLT-0716	1/25/14
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Test Data Sheet for Compressive Strength of Intact Rock Core Specimens without Strain Measurement

ASTM D 7012-10, Method C (with deviations per SDDR-33)

Page 1 of 1

Test Date	12-26-13
Project Name	Clinch River SMR
Project No.	6468-13-1072
Boring No. & Run No.	Boring No.: MP-110 Run No.: N/A
Sample No.	L2-3 BG
Sample Depth, (ft)	119.0'-120.9'
Lithologic Sample Description	See Boring Log
Load Direction (with respect to lithology)	Vertical
Moisture Condition at Time of Test	Laboratory Air-Dry
Average Diameter from Dimension Log, (in.)	2.40
Average Length from Dimension Log, (in)	5.65
Mass from Dimension Log, (g)	1131.74
Conforms to ASTM D4543 Dimensional Requirements? If no, explain below.	No, see Dimension Log
Temperature at Time of Test	Room temperature (71.4°F)
Loading Rate, (lb/sec)	130
Maximum Load, (lb)	28500
Description of Specimen After Test (Include Photograph ID No.)	Columnar/ shear on planes MP-110 L2-3 BG after testing (2).JPG
Uniaxial Compressive Strength, (psi)	6305
Tested by / Date	MEH 12-26-13 MEH 1/14/14
Reviewed by / Date	TL 1-3-14 TL 1/13/14

Notes:

Approval to proceed with testing provided by

Mr. John Damm with Bechtel on 12-16-13.

Post-Test Photo:



Equipment Used	ID No.	Calibration Due
Loading Device	CLT-0004	5/22/14
Thermometer	CLT-0555	9/19/14
Bearing Blocks	CLT-0054	2/3/14
Bearing Surface	CLT-0716	1/25/14
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Test Data Sheet for Compressive Strength of Intact Rock Core Specimens without Strain Measurement

ASTM D 7012-10, Method C (with deviations per SDDR-33)

Page 1 of 1

Test Date	12-26-13
Project Name	Clinch River SMR
Project No.	6468-13-1072
Boring No. & Run No.	Boring No.: MP-113 Run No.: N/A
Sample No.	L2-5 BCG
Sample Depth, (ft)	51.1'-51.7'
Lithologic Sample Description	See Boring Log
Load Direction (with respect to lithology)	Vertical
Moisture Condition at Time of Test	Laboratory Air-Dry
Average Diameter from Dimension Log, (in.)	2.40
Average Length from Dimension Log, (in)	5.70
Mass from Dimension Log, (g)	1139.03
Conforms to ASTM D4543 Dimensional Requirements? If no, explain below.	No, see Dimension Log
Temperature at Time of Test	Room temperature (71.4°F)
Loading Rate, (lb/sec)	130
Maximum Load, (lb)	43660
Description of Specimen After Test (Include Photograph ID No.)	Shear MP-113 L2-5 BCG after testing.JPG
Uniaxial Compressive Strength, (psi)	9659
Tested by / Date	MEH 12-26-13 MEH 1/11/14
Reviewed by / Date	TL 1-3-14 JF 1/13/14

Notes:

Approval to proceed with testing provided by
Mr. John Damm with Bechtel on 12-23-13.

Post-Test Photo:



Equipment Used	ID No.	Calibration Due
Loading Device	CLT-0004	5/22/14
Thermometer	CLT-0555	9/19/14
Bearing Blocks	CLT-0054	2/3/14
Bearing Surface	CLT-0716	1/25/14
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Test Data Sheet for Compressive Strength of Intact Rock Core Specimens without Strain Measurement

ASTM D 7012-10, Method C (with deviations per SDDR-33)

Page 1 of 1

Test Date	12-26-13
Project Name	Clinch River SMR
Project No.	6468-13-1072
Boring No. & Run No.	Boring No.: MP-121 Run No.: N/A
Sample No.	L2-10 BG
Sample Depth, (ft)	80.6'-81.8'
Lithologic Sample Description	See Boring Log
Load Direction (with respect to lithology)	Vertical
Moisture Condition at Time of Test	Laboratory Air-Dry
Average Diameter from Dimension Log, (in.)	2.41
Average Length from Dimension Log, (in)	5.13
Mass from Dimension Log, (g)	1025.09
Conforms to ASTM D4543 Dimensional Requirements? If no, explain below.	No, see Dimension Log
Temperature at Time of Test	Room temperature (71.7°F)
Loading Rate, (lb/sec)	130
Maximum Load, (lb)	11030
Description of Specimen After Test (Include Photograph ID No.)	Shear MP-121 L2-10 BG after test (3).JPG
Uniaxial Compressive Strength, (psi)	2419
Tested by / Date	MEH 12-26-13 <i>mett 1/11/14</i>
Reviewed by / Date	TL 1-3-14 <i>J 1/13/14</i>

Notes:

Approval to proceed with testing provided by

Mr. John Damm with Bechtel on 12-23-13.

Rock core failed along highlighted plane (photo).

Equipment Used	ID No.	Calibration Due
Loading Device	CLT-0004	5/22/14
Thermometer	CLT-0555	9/19/14
Bearing Blocks	CLT-0054	2/3/14
Bearing Surface	CLT-0716	1/25/14
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Post-Test Photo:



Test Data Sheet for Compressive Strength of Intact Rock Core Specimens without Strain Measurement

ASTM D 7012-10, Method C (with deviations per SDDR-33)

Page 1 of 1

Test Date	1-30-14
Project Name	Clinch River SMR
Project No.	6468-13-1072
Boring No. & Run No.	Boring No.: MP-122 Run No.: N/A
Sample No.	L3-30-BG
Sample Depth, (ft)	63.1 - 64.3
Lithologic Sample Description	See Boring Log
Load Direction (with respect to lithology)	Vertical
Moisture Condition at Time of Test	Laboratory Air-Dry
Average Diameter from Dimension Log, (in.)	2.40
Average Length from Dimension Log, (in)	5.22
Mass from Dimension Log, (g)	1050.92
Conforms to ASTM D4543 Dimensional Requirements? If no, explain below.	No, see Dimension Log
Temperature at Time of Test	Room temperature (72.3°F)
Loading Rate, (lb/sec)	160
Maximum Load, (lb)	31110
Description of Specimen After Test (Include Photograph ID No.)	Columnar with slight shear MP-122 L3-30 BG after test (2).JPG
Uniaxial Compressive Strength, (psi)	6883
Tested by / Date	MEH 1-30-14 MEH 1/31/14
Reviewed by / Date	TL 1-31-14 TL 1/31/14

Notes:

Approval to proceed with testing provided by

Mr. John Damm with Bechtel on 1-29-14.

Post-Test Photo:



Equipment Used	ID No.	Calibration Due
Loading Device	CLT-0004	5/22/14
Thermometer	CLT-0555	9/19/14
Bearing Blocks	CLT-0054	2/3/14
Bearing Surface	CLT-0716	5/26/14
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