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)

Test Date	12-31-13
Project Name	Clinch River SMR
Project No.	6468-13-1072
Boring No. & Run No.	Boring No.: MP-218 Run No.: N/A
Sample No.	CL9-6-ABG
Sample Depth, (ft)	67.8'-68.8'
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)	5.40
Mass from Dimension Log, (g)	1078.76
Conforms to ASTM D4543 Dimensional Requirements? If no, explain below.	No, see Dimension Log
Temperature at Time of Test	Room temperature (70.0°F)
Loading Rate, (lb/sec)	130
Maximum Load, (lb)	14460
Description of Specimen After Test (Include Photograph ID No.)	Shear MP-218 CL9-6-ABG after test (2).JPG
Uniaxial Compressive Strength, (psi)	3171
Tested by / Date	MEH 12-31-13 MEH 1/11/14
Reviewed by / Date	TL 1-2-14 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)

Test Date	12-27-13
Project Name	Clinch River SMR
Project No.	6468-13-1072
Boring No. & Run No.	Boring No.: MP-218 Run No.: N/A
Sample No.	CL9-2-ABG
Sample Depth, (ft)	71.3'-72.3'
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.)	2.41
Average Length from Dimension Log, (in)	5.70
Mass from Dimension Log, (g)	1135.52
Conforms to ASTM D4543 Dimensional Requirements? If no, explain below.	No, see Dimension Log
Temperature at Time of Test	Room temperature (71.2°F)
Loading Rate, (lb/sec)	130
Maximum Load, (lb)	13380
Description of Specimen After Test (Include Photograph ID No.)	Columnar MP-218 CL9-2-ABG after test.JPG
Uniaxial Compressive Strength, (psi)	2934
Tested by / Date	MEH 12-27-13 MEH 1/11/14
Reviewed by / Date	TL 1-2-14 TL 1/13/14

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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)

Test Date	12-31-13
Project Name	Clinch River SMR
Project No.	6468-13-1072
Boring No. & Run No.	Boring No.: MP-218 Run No.: N/A
Sample No.	CL9-7-ABG
Sample Depth, (ft)	72.3'-73.3'
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)	5.49
Mass from Dimension Log, (g)	1098.96
Conforms to ASTM D4543 Dimensional Requirements? If no, explain below.	No, see Dimension Log
Temperature at Time of Test	Room temperature (70.1°F)
Loading Rate, (lb/sec)	130
Maximum Load, (lb)	20270
Description of Specimen After Test (Include Photograph ID No.)	Shear/ slight columnar MP-218 CL9-7-ABG after test (2).JPG
Uniaxial Compressive Strength, (psi)	4485
Tested by / Date	MEH 12-31-13 MEH 1/11/14
Reviewed by / Date	TL 1-2-14 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)

Test Date	12-27-13
Project Name	Clinch River SMR
Project No.	6468-13-1072
Boring No. & Run No.	Boring No.: MP-218 Run No.: N/A
Sample No.	CL9-3-ABG
Sample Depth, (ft)	79.5'-80.5'
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)	5.68
Mass from Dimension Log, (g)	1125.17
Conforms to ASTM D4543 Dimensional Requirements? If no, explain below.	No, see Dimension Log
Temperature at Time of Test	Room temperature (70.1°F)
Loading Rate, (lb/sec)	130
Maximum Load, (lb)	5090
Description of Specimen After Test (Include Photograph ID No.)	Shear MP-218 CL9-3-ABG after test.JPG
Uniaxial Compressive Strength, (psi)	1134
Tested by / Date	MEH 12-27-13 MEH 1/11/14
Reviewed by / Date	TL 1-2-14 TL 1/13/14

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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)

Test Date	12-31-13
Project Name	Clinch River SMR
Project No.	6468-13-1072
Boring No. & Run No.	Boring No.: MP-218 Run No.: N/A
Sample No.	CL9-8-ABG
Sample Depth, (ft)	80.5'-81.5'
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)	5.58
Mass from Dimension Log, (g)	1107.86
Conforms to ASTM D4543 Dimensional Requirements? If no, explain below.	No, see Dimension Log
Temperature at Time of Test	Room temperature (70.4°F)
Loading Rate, (lb/sec)	130
Maximum Load, (lb)	9280
Description of Specimen After Test (Include Photograph ID No.)	Shear MP-218 CL9-8-ABG after test (2).JPG
Uniaxial Compressive Strength, (psi)	2053
Tested by / Date	MEH 12-31-13 MEH 1/11/14
Reviewed by / Date	TL 1-2-14 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)

Test Date	12-27-13
Project Name	Clinch River SMR
Project No.	6468-13-1072
Boring No. & Run No.	Boring No.: MP-218 Run No.: N/A
Sample No.	CL9-4-ABG
Sample Depth, (ft)	85.3'-86.3'
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)	5.74
Mass from Dimension Log, (g)	1150.62
Conforms to ASTM D4543 Dimensional Requirements? If no, explain below.	No, see Dimension Log
Temperature at Time of Test	Room temperature (69.5°F)
Loading Rate, (lb/sec)	130
Maximum Load, (lb)	17610
Description of Specimen After Test (Include Photograph ID No.)	Columnar MP-218 CL9-4-ABG after test.JPG
Uniaxial Compressive Strength, (psi)	3896
Tested by / Date	MEH 12-27-13 MEH 1/11/14
Reviewed by / Date	TL 1-2-14 TL 1/13/14

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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)

Test Date	12-31-13
Project Name	Clinch River SMR
Project No.	6468-13-1072
Boring No. & Run No.	Boring No.: MP-218 Run No.: N/A
Sample No.	CL9-9-ABG
Sample Depth, (ft)	86.3'-87.3'
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)	5.49
Mass from Dimension Log, (g)	1099.91
Conforms to ASTM D4543 Dimensional Requirements? If no, explain below.	No, see Dimension Log
Temperature at Time of Test	Room temperature (70.4°F)
Loading Rate, (lb/sec)	130
Maximum Load, (lb)	26340
Description of Specimen After Test (Include Photograph ID No.)	Columnar MP-218 CL9-9-ABG after test (3).JPG
Uniaxial Compressive Strength, (psi)	5827
Tested by / Date	MEH 12-31-13 MEH 1/11/14
Reviewed by / Date	TL 1-2-14 TL 1/13/14

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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)

Test Date	12-27-13
Project Name	Clinch River SMR
Project No.	6468-13-1072
Boring No. & Run No.	Boring No.: MP-218 Run No.: N/A
Sample No.	CL9-5-ABG
Sample Depth, (ft)	90.3'-91.3'
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)	5.73
Mass from Dimension Log, (g)	1138.99
Conforms to ASTM D4543 Dimensional Requirements? If no, explain below.	No, see Dimension Log
Temperature at Time of Test	Room temperature (69.6°F)
Loading Rate, (lb/sec)	130
Maximum Load, (lb)	13890
Description of Specimen After Test (Include Photograph ID No.)	Columnar/ slight shear MP-218 CL9-5-ABG after test (2).JPG
Uniaxial Compressive Strength, (psi)	3073
Tested by / Date	MEH 12-27-13 MEH 1/11/14
Reviewed by / Date	TL 1-2-14 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)

Test Date	12-31-13
Project Name	Clinch River SMR
Project No.	6468-13-1072
Boring No. & Run No.	Boring No.: MP-218 Run No.: N/A
Sample No.	CL9-10-ABG
Sample Depth, (ft)	91.3'-92.3'
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)	5.42
Mass from Dimension Log, (g)	1075.73
Conforms to ASTM D4543 Dimensional Requirements? If no, explain below.	No, see Dimension Log
Temperature at Time of Test	Room temperature (69.7°F)
Loading Rate, (lb/sec)	130
Maximum Load, (lb)	16190
Description of Specimen After Test (Include Photograph ID No.)	Columnar MP-218 CL9-10-ABG after test (3).JPG
Uniaxial Compressive Strength, (psi)	3582
Tested by / Date	MEH 12-31-13 MEH 1/11/14
Reviewed by / Date	TL 1-2-14 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)

Test Date	1-30-14
Project Name	Clinch River SMR
Project No.	6468-13-1072
Boring No. & Run No.	Boring No.: MP-219A Run No.: N/A
Sample No.	L3-51-BG
Sample Depth, (ft)	134.1 - 134.7
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)	5.50
Mass from Dimension Log, (g)	1086.74
Conforms to ASTM D4543 Dimensional Requirements? If no, explain below.	No, see Dimension Log
Temperature at Time of Test	Room temperature (72.1°F)
Loading Rate, (lb/sec)	160
Maximum Load, (lb)	15720
Description of Specimen After Test (Include Photograph ID No.)	Shear along weak planes MP-219A L3-51 BG after test (2).JPG
Uniaxial Compressive Strength, (psi)	3501
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 1-30-14.

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)

Test Date	1-7-14
Project Name	Clinch River SMR
Project No.	6468-13-1072
Boring No. & Run No.	Boring No.: MP-220 Run No.: N/A
Sample No.	L2-36 BG
Sample Depth, (ft)	81.3' – 82.7'
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.)	2.38
Average Length from Dimension Log, (in)	5.36
Mass from Dimension Log, (g)	1058.70
Conforms to ASTM D4543 Dimensional Requirements? If no, explain below.	No, see Dimension Log
Temperature at Time of Test	Room temperature (66.0°F)
Loading Rate, (lb/sec)	130
Maximum Load, (lb)	24160
Description of Specimen After Test (Include Photograph ID No.)	Columnar/Shear MP-220 L2-36 BG after test.JPG
Uniaxial Compressive Strength, (psi)	5429
Tested by / Date	GW 1-7-14 GW 01/13/14
Reviewed by / Date	TL 1-10-14 TL 1/13/14

Notes:

Approval to proceed with testing provided by Mr. John Damm with Bechtel on 1-6-14.

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	1/25/14
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