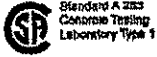


**APPENDIX A**  
**Sample Concrete Test Reports**

# McINTOSH LALANI ENGINEERING LTD.



## CIPPOC STRENGTH TEST RESULTS

Project No.: ML 2064

Project: Courtyard on Bear St

Client: Arctos and Bird Enterprises Ltd  
Box 1526  
Bruff, Alberta  
T1L 1B4

Attention: Mr. Gary Doyle

Supplier:	<u>Lafarge</u>
Spec. Strength:	<u>30</u>
Cement Type:	<u>10</u>
Date Placed:	<u>March 23, 2004</u>

30% FA Mix

Test Location: Suspended slab  
Gridlines D-F and 5-7

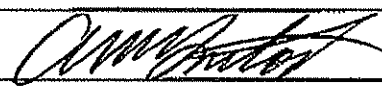
Cippoc Number	Age Days	Test date	Test By	Compressive Strength, MPa	Type of Failure	Comments
4	2	25-Mar	BDB	18.6	C	
5	6	29-Mar	JTM	22.4	C	
6						


Remarks: \_\_\_\_\_

cc: Kristy Neish, RJC : Fax 2708402

Al Popp, PCL site Fax : 1- 403-760-3581

Ann Graham, PCL Fax: 717 - 1789

Reviewed By:  P.Eng

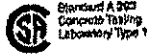


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cyl 292 - 303

# McINTOSH LALANI ENGINEERING LTD.



## CONCRETE STRENGTH TEST RESULTS

Information from delivery slip

Project No.: ML - 2064

Project: Courtyard on Bear Street

Client: Arctos and Bird Enterprises Ltd  
Box 1526  
Banff, Alberta  
T1L 1B4

Attention: Mr. Gary Doyle

Test Location: Suspended slab ground level ( beams)  
pour # 2 from D to E and 6 to 7

Placing Chute:      Pump:      Bucket: X

Method: Other: Crane

Test Number: 2

Supplier:	Lafarge Construction Materials		
Truck No.:	<u>2193</u>	Plant Dep.:	<u>8:10</u>
Ticket No.:	<u>3328380</u>	Mix No.:	<u>UL3011E</u>
Load amount:	<u>8.0 m<sup>3</sup></u>	Cumulative:	<u>8.0 m<sup>3</sup></u>
Admixture: Super Plasticizer:	<u>3/4L/m<sup>3</sup></u>	Other:	<u>30%FA</u>
Winter Heat:	<u>    </u>	Fibres:	<u>    </u>
Spec. Strength:	<u>30 MPa</u>	Specified air:	<u>0 %</u>
Cement Type:	<u>10</u>	Spec. Slump:	<u>80 mm</u>
Max. Aggregate size:	<u>    </u>		<u>20 mm</u>

Test time: 9:07

Temperature: Air, °C: -2 Concrete, °C: 22.8

Concrete Setting Temp.: Min., °C: 21 Max., °C: 24

Slump: 80/110 mm Air Content: 1.8 %

Unit Weight:      Kg/m<sup>3</sup>

Date Cast: March 23, 2004 By: JS

Date Received: March 25, 2004 By: BDB

Cylinder Number	Age Days	Test date	Test By	Compressive Strength, MPa	Type of Failure	Comments
292	7	30-Mar	RW	25.2	C	
293	28	20-Apr	SDA	36.5	C	
294	56	18-May	SO	39.5	C	
295	56	18-May	SO	39.3	C	

Remarks:

cc: Kristy Nlesh - RJC - Fax 270 - 8402  
 Al Popp, PCL, site Fax : 1-403-760-3561  
 Ann Graham, PCL, Fax : 250-7695

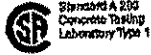
Reviewed By:     

     P.Eng

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# McINTOSH LALANI ENGINEERING LTD.



## CONCRETE STRENGTH TEST RESULTS

Information from delivery slip

Project No.: ML - 2064

Project: Courtyard on Bear Street

Client: Arctos and Bird Enterprises Ltd  
Box 1526  
Banff, Alberta  
T1L 1B4

Attention: Mr. Gary Doyle

Test Location: Suspended slab ground level  
gridlines E to F and 6 to 7

Placing Chute:      Pump:      Bucket: X

Method: Other: Crane

Test Number: 3

Supplier:	Lafarge Construction Materials		
Truck No.:	2158	Plant Dep.:	9:15
Ticket No.:	3328386	Mix No.:	UL3011E
Load amount:	8.0 m <sup>3</sup>	Cumulative:	56.0 m <sup>3</sup>
Admixture: Super Plasticizer:	1/2L/m <sup>3</sup>	Other:	30%FA
Winter Heat:		Fibres:	
Spec. Strength:	30 MPa	Specified air:	0 %
Cement Type:	10	Spec. Slump:	75 mm
Max. Aggregate size:	20 mm		

Test time: 10:24

Temperature: Air, °C: -1 Concrete, °C: 19.2

Concrete Setting Temp.: Min., °C: 21 Max., °C: 24

Slump: 70/90 mm Air Content: 1.8 %

Unit Weight:      Kg/m<sup>3</sup>

Date Cast: March 23, 2004 By: JS

Date Received: March 25, 2004 By: BDB

Cylinder Number	Age Days	Test date	Test By	Compressive Strength, MPa	Type of Failure	Comments
296	7	30-Mar	RW	24.1	C	
297	28	20-Apr	SDA	37.1	C	
298	56	18-May	SO	42.5	C	
299	56	18-May	SO	43.9	C	

Remarks:

cc: Kristy Niesh - RJC - Fax 270 - 8402

Al Popp, PCL, site Fax : 1-403 -760-3581

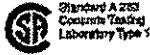
Ann Graham, PCL Fax : 250-7695

Reviewed By: TSB P.Eng

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# McINTOSH LALANI ENGINEERING LTD.



## CONCRETE STRENGTH TEST RESULTS

Information from delivery slip

Project No.: ML - 2064

Project: Courtyard on Bear Street

Client: Arcios and Bird Enterprises Ltd  
Box 1526  
Banff, Alberta  
T1L 1B4

Attention: Mr. Gary Doyle

Test Location: Suspended slab ground level  
gridlines 5 to 6 and D to E

Placing Chute:      Pump:      Bucket: X

Method: Other: Crane

Test Number: 4

Supplier:	Lafarge Construction Materials		
Truck No.:	2197	Plant Dep.:	10:40
Ticket No.:	3328392	Mix No.:	UL3011E
Load amount:	8.0 m <sup>3</sup>	Cumulative:	104.0 m <sup>3</sup>
Admixture: Super Plasticizer:	1/2L/m <sup>3</sup>	Other:	30%FA
Winter Heat:		Fibres:	CaCl <sub>2</sub> (%):
Spec. Strength:	30 MPa	Specified air:	0 %
Cement Type:	10	Spec.Slump:	75 mm
Max. Aggregate size:			20 mm

Test time: 12:00

Temperature: Air, °C: 2 Concrete, °C: 22.4

Concrete Setting Temp.: Min., °C: 21 Max., °C: 24

Slump: 60/80 mm Air Content: 1.6 %

Unit Weight:                      Kg/m<sup>3</sup>

Date Cast: March 23, 2004 By: JS

Date Received: March 25, 2004 By: BDB

Cylinder Number	Age Days	Test date	Test By	Compressive Strength, MPa	Type of Failure	Comments
300	7	30-Mar	RW	26.9	C	
301	28	20-Apr	SDA	38.7	C	
302	56	18-May	SO	39.5	C	
303	56	18-May	SO	40.1	C	

Remarks:

cc: Kristy Niesh - RJC - Fax 270 - 8402

Al Popp, PCL, site Fax : 1-403 -760-3581

Ann Graham, PCL Fax : 250-7695

Reviewed By: [Signature]

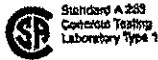
P.Eng

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KN

# McINTOSH LALANI ENGINEERING LTD.



## CIPPOC STRENGTH TEST RESULTS

Project No.: ML 2064

Project: Courtyard on Bear St

Client: Arctos and Bird Enterprises Ltd  
Box 1526  
Bruff, Alberta  
T1L 1B4

Attention: Mr. Gary Doyle

Supplier:	<u>Lafarge</u>
Spec. Strength:	<u>30</u>
Cement Type:	<u>10</u>
Date Placed:	<u>April 27, 2004</u>

Test Location: Suspended slab  
level 1 between gridlines  
1-2 and B-C

35% FA Mix

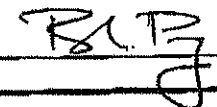
Cippoc Number	Age Days	Test date	Test By	Compressive Strength, MPa	Type of Failure	Comments
15	3	30-Apr	BB	24.3	C	
16	6	3-May	BB	27.0	C	


Remarks:

cc: Kristy Neish, RJC : Fax 2708402

Al Popp, PCL site Fax : 1- 403-760-3581

Ann Graham, PCL Fax: 250 - 7695

Reviewed By:  P.Eng



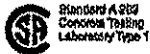
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PK

# McINTOSH LALANI ENGINEERING LTD.



## CONCRETE STRENGTH TEST RESULTS

Project No.: ML - 2064

Project: Courtyard on Bear Street

Client: Arctos and Bird Enterprises Ltd  
Box 1526  
Banff, Alberta  
T1L 1B4

Attention: Mr. Gary Doyle

Test Location: Suspended slab level 1 @ gridlines  
B to C and 1 to 2

Placing Chute:      Pump:      Bucket: X

Method: Other: Crane

Test Number: 1

### Information from delivery slip

Supplier:	Lafarge Construction Materials		
Truck No.:	2876	Plant Dep.:	7:44
Ticket No.:	3328735	Mix No.:	UL30A11D
Load amount:	8.0 m <sup>3</sup>	Cumulative:	8.0 m <sup>3</sup>
Admixture: Super Plasticizer:	X	Other:	
Winter Heat:		Fibres:	
Spec. Strength:	30 MPa	Specified air:	%
Cement Type:	10	Spec. Slump:	75 mm
Max. Aggregate size:			20 mm

Test time: 8:42

Temperature: Air, °C: 7 Concrete, °C: 19

Concrete Setting Temp.: Min., °C: 21 Max., °C: 21

Slump: 80/140 mm Air Content: 1.8 %

Unit Weight:      Kg/m<sup>3</sup>

Date Cast: April 27, 2004 By: JS

Date Received: April 30, 2004 By: JS

Cylinder Number	Age Days	Test date	Test By	Compressive Strength, MPa	Type of Failure	Comments
384	7	4-May	KN	22.5	C	
385	28	25-May	SS	31.3	C	
386	56	22-Jun	SS	36.8	C	
387	56	22-Jun	SS	36.5	C	

### Remarks:

cc: Kristy Nlesh - RJC - Fax 270 - 8402

Al Popp, PCL, site Fax : 1-403 -760-3581

Ann Graham, PCL Fax : 250-7695

Reviewed By:     

     P.Eng

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# McINTOSH LALANI ENGINEERING LTD.



## CONCRETE STRENGTH TEST RESULTS

Information from delivery slip

Project No.: ML - 2064

Project: Courtyard on Bear Street

Client: Arctos and Bird Enterprises Ltd  
Box 1526  
Banff, Alberta  
T1L 1B4

Attention: Mr. Gary Doyle

Test Location: Suspended slab level 1 'pour' 1  
gridlines A to B and 3 to 4

Placing Chute:      Pump:      Bucket: X

Method: Other: Crane

Test Number: 2

Supplier:	Lafarge Construction Materials		
Truck No.:	2669	Plant Dep.:	9:40
Ticket No.:	N/A	Mix No.:	UL30A11D
Load amount:	8.0 m <sup>3</sup>	Cumulative:	54.5 m <sup>3</sup>
Admixture: Super Plasticizer:	X	Other:	
Winter Heat:		Fibres:	
Spec. Strength:	30 MPa	CaCl <sub>2</sub> (%):	
Cement Type:	10	Specified air:	%
Max. Aggregate size:		Spec. Slump:	75 mm
			20 mm

Test time: 10:38

Temperature: Air, °C: 7 Concrete, °C: 20.6

Concrete Setting Temp.: Min., °C: 21 Max., °C: 21

Slump: 80/140 mm Air Content: 1.8 %

Unit Weight:                      Kg/m<sup>3</sup>

Date Cast: April 27, 2004 By: JS

Date Received: April 30, 2004 By: JS

Cylinder Number	Age Days	Test date	Test By	Compressive Strength, MPa	Type of Failure	Comments
388	7	4-May	KN	29.4	C	
389	28	25-May	SS	38.1	C	
390	56	22-Jun	SS	44.2	C	
391	56	22-Jun	SS	41.4	C	

Remarks:

cc: Kristy Niesch - RJC - Fax 270 - 8402

Al Popp, PCL, site Fax : 1-403-760-3581

Ann Graham, PCL, Fax : 250-7695

Reviewed By:                     

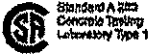
                     P.Eng

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# McINTOSH LALANI ENGINEERING LTD.



## CONCRETE STRENGTH TEST RESULTS

Information from delivery slip

Project No.: ML - 2064

Project: Courtyard on Bear Street

Client: Arclos and Bird Enterprises Ltd  
Box 1526  
Banff, Alberta  
T1L 1B4

Attention: Mr. Gary Doyle

Test Location: Suspended slab level 1 'pour' 1  
gridlines C to D and 6 to 7

Placing Chute:      Pump:      Bucket: X

Method: Other: Crane

Test Number: 3

Supplier:	Lafarge Construction Materials		
Truck No.:	2158	Plant Dep.:	11:22
Ticket No.:	3328748	Mix No.:	UL30A11D
Load amount:	m <sup>3</sup>	Cumulative:	m <sup>3</sup>
Admixture: Super Plasticizer:	X	Other:	
Winter Heat:		Fibres:	CaCl <sub>2</sub> (%):
Spec. Strength:	30 MPa	Specified air:	%
Cement Type:	10	Spec. Slump:	75 mm
Max. Aggregate size:			20 mm

Test time: 12:07

Temperature: Air, °C: 7 Concrete, °C: 18.6

Concrete Setting Temp.: Min., °C: 21 Max., °C: 21

Slump: 80/120 mm Air Content: 1.6 %

Unit Weight:      Kg/m<sup>3</sup>

Date Cast: April 27, 2004 By: JS

Date Received: April 30, 2004 By: JS

Cylinder Number	Age Days	Test date	Test By	Compressive Strength, MPa	Type of Failure	Comments
392	7	4-May	BB	31.3	C	
393	28	25-May	SS	39.0	C	
394	56	22-Jun	SS	39.0	C	
395	56	22-Jun	SS	40.3	C	

Remarks:

cc: Kristy Niesh - RJC - Fax 270 - 8402

Al Popp, PCL, site Fax : 1-403 -760-3581

Ann Graham, PCL Fax : 250-7695

Reviewed By:     

*[Handwritten Signature]*

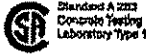
P.Eng



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# McINTOSH LALANI ENGINEERING LTD.



## CONCRETE STRENGTH TEST RESULTS

Information from delivery slip

Project No.: ML - 2064

Project: Courtyard on Bear Street

Client: Arctos and Bird Enterprises Ltd  
Box 1526  
Banff, Alberta  
T1L 1B4

Attention: Mr. Gary Doyle

Test Location: Suspended slab level 1 'pour' 1  
gridlines D to E and 7 to 8

Placing Chute:        Pump:        Bucket: X

Method: Other: Crane

Test Number: 4

Supplier:	Lafarge Construction Materials		
Truck No.:	<u>2645</u>	Plant Dep.:	<u>14:05</u>
Ticket No.:	<u>3328755</u>	Mix No.:	<u>UL30A11D</u>
Load amount:	<u>      </u> m <sup>3</sup>	Cumulative:	<u>      </u> m <sup>3</sup>
Admixture: Super Plasticizer:	<u>X</u>	Other:	<u>      </u>
Winter Heat:	<u>      </u>	Fibres:	<u>      </u>
Spec. Strength:	<u>30</u> MPa	CaCl <sub>2</sub> (%):	<u>      </u>
Cement Type:	<u>10</u>	Specified air:	<u>      </u> %
Max. Aggregate size:	<u>      </u>	Spec. Slump:	<u>75</u> mm
			<u>20</u> mm

Test time: 14:52

Temperature: Air, °C: 10 Concrete, °C: 20.1

Concrete Setting Temp.: Min., °C: 21 Max., °C: 21

Slump: 80/130 mm Air Content: 1.6 %

Unit Weight:        Kg/m<sup>3</sup>

Date Cast: April 27, 2004 By: JS

Date Received: April 30, 2004 By: JS

Cylinder Number	Age Days	Test date	Test By	Compressive Strength, MPa	Type of Failure	Comments
396	7	4-May	KN	29.4	C	
397	28	25-May	SS	35.1	C	
398	56	22-Jun	SS	39.2	C	
399	56	22-Jun	SS	38.4	C	

Remarks:

cc: Kristy Nlesh - RJC - Fax 270 - 8402

Al Popp, PCL, site Fax : 1-403 -760-3581

Ann Graham, PCL Fax : 250-7695

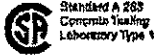
Reviewed By:       

P.Eng

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# McINTOSH LALANI ENGINEERING LTD.



## CIPPOC STRENGTH TEST RESULTS

Project No.: ML 2064

Project: Courtyard on Bear St

Client: Arctos and Bird Enterprises Ltd  
Box 1526

Edmonton, Alberta

T1L 1B4

Attention: Mr. Gary Doyle

Test Location: Suspended slab  
pour 2 level 3

Supplier:	<u>Lafarge</u>
Spec. Strength:	<u>30</u>
Cement Type:	<u>10</u>
Date Placed:	<u>May 21, 2004</u>

40% FA Mix

Cippoc Number	Age Days	Test date	Test By	Compressive Strength, MPa	Type of Failure	Comments
23	4	25-May	BB	23.1	C	
24	6	27-May	BB	27.6	C	

Remarks: \_\_\_\_\_  
 cc: Kristy Neish, RJC : Fax 2708402  
 Al Popp, PCL site Fax : 1- 403-760-3581  
 Ann Graham, PCL Fax: 250 - 7695

Reviewed By:  P.Eng

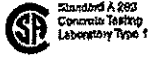
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KW

# McINTOSH LALANI ENGINEERING LTD.



## CONCRETE STRENGTH TEST RESULTS

Information from delivery slip

Project No.: ML - 2064

Project: Courtyard on Bear Street

Client: Arctos and Bird Enterprises Ltd  
Box 1526  
Banff, Alberta  
T1L 1B4

Attention: Mr. Gary Doyle

Test Location: Suspended slab @ level 3  
beam along gridline 4 from H to J

Placing Chute:      Pump:      Bucket: X

Method: Other: Crane

Test Number: 1

Supplier:	Lafarge Construction Materials		
Truck No.:	<u>2676</u>	Plant Dep.:	<u>7:50</u>
Ticket No.:	<u>3329045</u>	Mix No.:	<u>UL30A11C</u>
Load amount:	<u>8.0</u> m <sup>3</sup>	Cumulative:	<u>8.0</u> m <sup>3</sup>
Admixture: Super Plasticizer:	<u>X</u>	Other:	<u>    </u>
Winter Heat:	<u>    </u>	Fibres:	<u>    </u>
Spec. Strength:	<u>30</u> MPa	Specified air:	<u>N/A</u> %
Cement Type:	<u>10</u>	Spec. Slump:	<u>80</u> mm
Max. Aggregate size:	<u>    </u>	<u>20</u>	mm

Test time: 8:46

Temperature: Air, °C: 2 Concrete, °C: 15

Concrete Setting Temp.: Min., °C: 21 Max., °C: 27

Slump: 80/120 mm Air Content: 1.8 %

Unit Weight:      Kg/m<sup>3</sup>

Date Cast: May 21, 2004 By: JS

Date Received: May 25, 2004 By: JS

Cylinder Number	Age Days	Test date	Test By	Compressive Strength, MPa	Type of Failure	Comments
444	7	28-May	BB	25.5	C	
445	28	18-Jun	SS	39.2	C	
446	56	16-Jul	SS	45.0	C	
447	56	16-Jul	SS	47.7	C	

Remarks:

cc: Kristy Nlesh - RJC - Fax 270 - 8402

Al Popp, PCL, site Fax : 1-403-760-3581

Ann Graham, PCL Fax : 250-7695

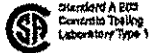
Reviewed By:

P.Eng

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# McINTOSH LALANI ENGINEERING LTD.



## CONCRETE STRENGTH TEST RESULTS

Information from delivery slip

Project No.: ML - 2064

Project: Courtyard on Bear Street

Client: Arctos and Bird Enterprises Ltd  
Box 1526  
Banff, Alberta  
T1L 1B4

Attention: Mr. Gary Doyle

Test Location: Suspended slab @ level 3  
from gridline G to H and 4 to 5

Placing Chute:      Pump:      Bucket: X

Method: Other: Crane

Test Number: 2

Supplier:	Lafarge Construction Materials		
Truck No.:	2193	Plant Dep.:	9:28
Ticket No.:	3329051	Mix No.:	UL30A11C
Load amount:	8.0 m <sup>3</sup>	Cumulative:	54.5 m <sup>3</sup>
Admixture: Super Plasticizer:	X	Other:	
Winter Heat:		Fibres:	
Spec. Strength:	30 MPa	Specified air:	N/A %
Cement Type:	10	Spec. Slump:	80 mm
Max. Aggregate size:			20 mm

Test time: 10:27

Temperature: Air, °C: 3 Concrete, °C: 12

Concrete Setting Temp.: Min., °C: 21 Max., °C: 27

Slump: 80/110 mm Air Content: 1.6 %

Unit Weight:                      Kg/m<sup>3</sup>

Date Cast: May 21, 2004 By: JS

Date Received: May 25, 2004 By: JS

Cylinder Number	Age Days	Test date	Test By	Compressive Strength, MPa	Type of Failure	Comments
448	7	28-May	BB	25.1	C	
449	28	18-Jun	SS	30.7	C	
450	56	16-Jul	SS	43.6	C	
451	56	16-Jul	SS	40.6	C	

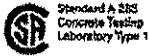
Remarks: cc: Kristy Nlesh - RJC - Fax 270 - 8402  
Al Popp, PCL, site Fax : 1-403 -760-3581  
Ann Graham, PCL Fax : 250-7695

Reviewed By:  P.Eng

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# McINTOSH LALANI ENGINEERING LTD.



## CONCRETE STRENGTH TEST RESULTS

Information from delivery slip

Project No.: ML - 2064

Project: Courtyard on Bear Street

Client: Arctos and Bird Enterprises Ltd  
Box 1528  
Banff, Alberta  
T1L 1B4

Attention: Mr. Gary Doyle

Test Location: Suspended slab @ level 3  
from gridline F to G and 6 to 7

Placing Chute:      Pump:      Bucket: X

Method: Other: Crane

Test Number: 3

Supplier:	Lafarge Construction Materials		
Truck No.:	2158	Plant Dep.:	10:40
Ticket No.:	3329057	Mix No.:	UL30A11C
Load amount:	8.0 m <sup>3</sup>	Cumulative:	101.0 m <sup>3</sup>
Admixture: Super Plasticizer:	X	Other:	
Winter Heat:		Fibres:	CaCl <sub>2</sub> (%):
Spec. Strength:	30 MPa	Specified air:	N/A %
Cement Type:	10	Spec. Slump:	80 mm
Max. Aggregate size:			20 mm

Test time: 12:02

Temperature: Air, °C: 5 Concrete, °C: 15

Concrete Setting Temp.: Min., °C: 21 Max., °C: 27

Slump: 70/100 mm Air Content: 1.8 %

Unit Weight:      Kg/m<sup>3</sup>

Date Cast: May 21, 2004 By: JS

Date Received: May 25, 2004 By: JS

Cylinder Number	Age Days	Test date	Test By	Compressive Strength, MPa	Type of Failure	Comments
452	7	28-May	BB	25.8	C	
453	28	18-Jun	SS	31.8	C	
454	56	16-Jul	SS	43.9	C	
455	56	16-Jul	SS	40.9	C	


Remarks:

cc: Kristy Niech - RJC - Fax 270 - 8402

Al Popp, PCL, site Fax : 1-403 -760-3581

Ann Graham, PCL, Fax : 250-7695

Reviewed By:

 P.Eng



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