

**CANYON GOLD
& GRAVEL**

Canyon Gold & Gravel Inc.

**Aggregate and Gold Test Results
June 2022**



CANYON GOLD
& GRAVEL



METRO TESTING & ENGINEERING

AGGREGATE TESTING FOR USE IN CONCRETE PRODUCTION

T



METRO TESTING & ENGINEERING

#18 - 3275 McCallum Road ph: 1-888-855-9733
Abbotsford, B.C. V2S 7W8 fax: (604) 855-7378



SIEVE ANALYSIS REPORT SI Standard SERIES

PROJECT NO. VE40608

CLIENT CANYON GOLD & GRAVEL INC
C.C.

TO
CANYON GOLD & GRAVEL INC
SUITE 200 - 100 PARK ROYAL S
WEST VANCOUVER, BC
V7T 1A2

ATTN: BRIAN HAUFF

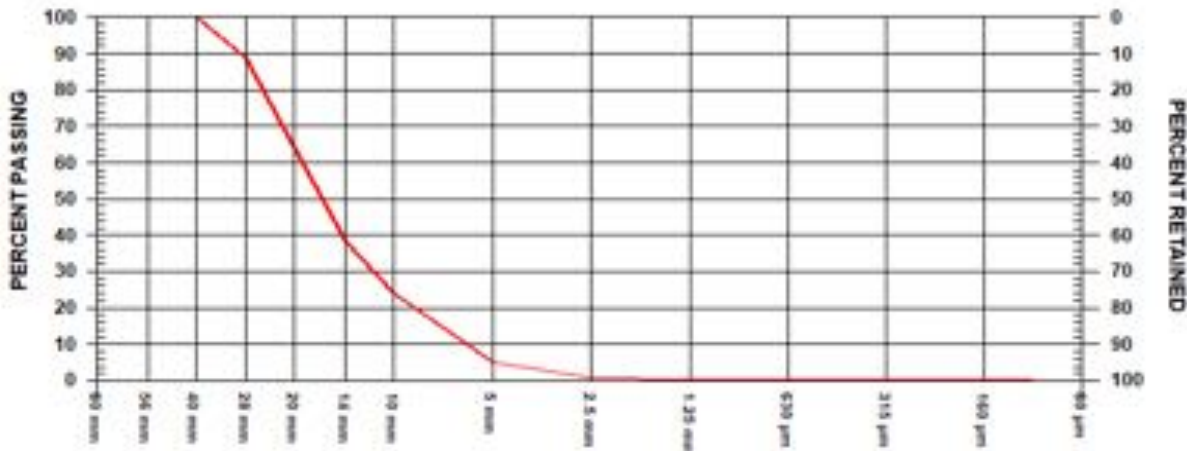
PROJECT PRE-QUAL FOR CONCRETE/ASPHALT AGG
PRE-QUAL
CONTRACTOR CANYON GOLD & GRAVEL INC

TBD
TBD

SIEVE TEST NO. 1 DATE RECEIVED 2022.Apr.16 DATE TESTED 2022.Apr.25 DATE SAMPLED 2022.Apr.15

SUPPLIER CANYON GOLD & GRAVEL INC.
SOURCE NOT PROVIDED
SPECIFICATION
MATERIAL TYPE 75 mm PITRUN

SAMPLED BY CLIENT
TESTED BY EX
TEST METHOD ASTM C-117



GRAVEL SIZES	PERCENT PASSING	GRADATION LIMITS
80 mm		
56 mm		
40 mm	100.0	
28 mm	88.7	
20 mm	64.1	
14 mm	38.4	
10 mm	24.3	

SAND SIZES AND FINES	PERCENT PASSING	GRADATION LIMITS
5 mm	5.0	
2.5 mm	0.8	
1.25 mm	0.5	
630 µm	0.4	
315 µm	0.3	
160 µm	0.3	
80 µm	0.2	

COMMENTS

Result is the average of 4 location sample



PROJECT NO. VE40608

CLIENT CANYON GOLD & GRAVEL INC
 C.C.

TO
 CANYON GOLD & GRAVEL INC
 SUITE 200 - 100 PARK ROYAL S
 WEST VANCOUVER, BC
 V7T 1A2

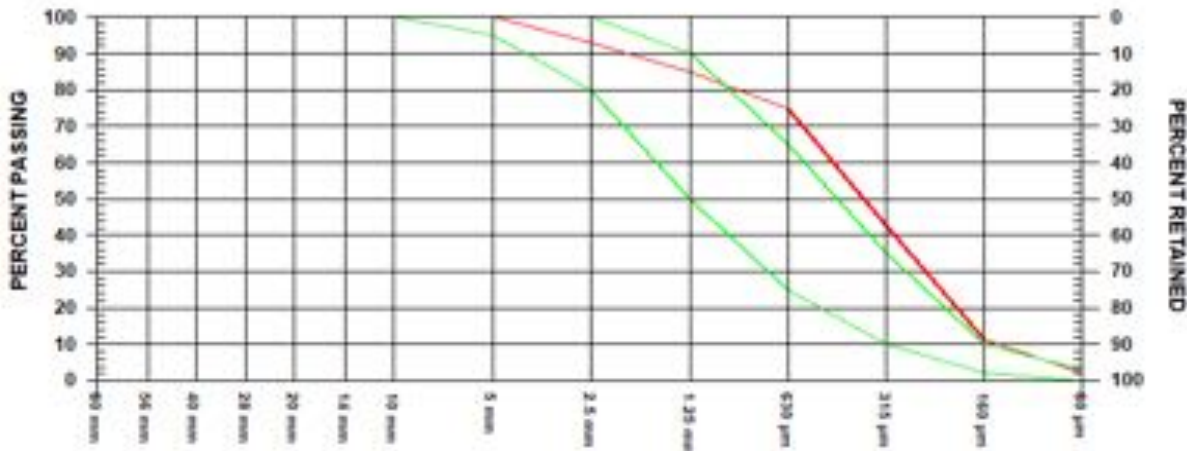
ATTN: BRIAN HAUFF

PROJECT PRE-QUAL FOR CONCRETE/ASPHALT AGG
 PRE-QUAL
 CONTRACTOR CANYON GOLD & GRAVEL INC

TBD
 TBD

SIEVE TEST NO. 2 DATE RECEIVED 2022.Apr.16 DATE TESTED 2022.Apr.28 DATE SAMPLED 2022.Apr.15

SUPPLIER CANYON GOLD & GRAVEL INC SAMPLED BY CLIENT
 SOURCE NOT PROVIDED TESTED BY EX
 SPECIFICATION CSA FINE AGGREGATE FA1 TEST METHOD ASTM C-136
 MATERIAL TYPE SAND



GRAVEL SIZES	PERCENT PASSING	GRADATION LIMITS
80 mm		
56 mm		
40 mm		
28 mm		
20 mm		
14 mm		
10 mm		100.0-100.0

SAND SIZES AND FINES	PERCENT PASSING	GRADATION LIMITS
5 mm	100.0	95.0-100.0
2.5 mm	93.0	80.0-100.0
1.25 mm	84.9	50.0-90.0
630 µm	74.7	25.0-65.0
315 µm	42.7	10.0-35.0
160 µm	11.3	2.0-10.0
80 µm	2.0	0.0-3.0

FINENESS MODULUS 1.93 SPEC LIMITS 0.00 - 0.00

COMMENTS
 Result is the average of 4 location sample.

TO: **CANYON GOLD & GRAVEL INC.**
Suite 200 100 Park Royal St
West Vancouver, BC., V7T 1A2

REPORT DATE: 11-May-22
PROJECT NO: VE40608

ATTN: **BRIAN HAUFF**

PROJECT: AGGREGATE PRE-QUALIFICATION TESTING 2022
SCOPE: AGGREGATE TESTING FOR USE IN CONCRETE PRODUCTION

**CSA A23.2-12A
RELATIVE DENSITY AND ABSORPTION OF COARSE AGGREGATE**

SAMPLE DATA			
SUPPLIER	CANYON GOLD & GRAVEL INC.	DATE SAMPLED:	16-Apr-22
SOURCE:	HOPE PIT	DATE RECEIVED:	16-Apr-22
SAMPLE TYPE:	COARSE AGGREGATE (28-5 mm SIZE)	DATE TESTED:	11-May-22

Trial No.	Mass (g)	Relative Density Dry (Gsb)	Relative Density SSD (Gssd)	Apparent Relative Density (Gsa)	Absorption (%)
1	2643.9	2.668	2.697	2.749	1.10
2	2430.6	2.669	2.698	2.748	1.08
AVERAGE:		2.668	2.697	2.748	1.09

Per:



Jaime Rivero
Laboratory Supervisor

Reviewed by:



Jim Hernandez, ASCT
Laboratory Manager

TO: **CANYON GOLD & GRAVEL INC.**
 Suite 200 100 Park Royal St
 West Vancouver, BC., V7T 1A2

REPORT DATE: 12-May-22
 PROJECT NO: VE40608

Attn: **BRIAN HAUFF**

PROJECT: AGGREGATE PRE-QUALIFICATION TESTING 2022
SCOPE: AGGREGATE TESTING FOR USE IN CONCRETE PRODUCTION


CSA A23.2 - 6A
RELATIVE DENSITY AND ABSORPTION OF FINE AGGREGATE

SAMPLE DATA	
SUPPLIER Canyon Gold & Gravel Inc.	DATE SAMPLED: 16-Apr-22
SOURCE:	DATE RECIEVED: 16-Apr-22
SAMPLE TYPE: CONCRETE SAND	DATE TESTED: 11-May-22

Trial No.	Mass (g)	Relative Density Dry (Gsb)	Relative Density SSD (Gssd)	Apparent Relative Density (Gsa)	Absorption (%)
1	500	2.628	2.668	2.739	1.54
2	500	2.624	2.665	2.737	1.58
AVERAGE:		2.626	2.667	2.738	1.56

The test data reported pertains to the sample provided, and may not be applicable to materials from other production zones.

Per: 
Jaime Rivero
 Laboratory Supervisor

Reviewed by: 
Jim Hernandez, ASCT
 Laboratory Manager

TO: **CANYON GOLD & GRAVEL INC.**
Suite 200 100 Park Royal St
West Vancouver, BC., V7T 1A2

REPORT DATE: 2-May-22
PROJECT NO: VE40608

ATTN: **BRIAN HAUFF**

PROJECT: AGGREGATE PRE-QUALIFICATION TESTING 2022
SCOPE: AGGREGATE TESTING FOR USE IN CONCRETE PRODUCTION

CSA A23.2-29A
RESISTANCE OF COARSE AGGREGATES TO DEGRADATION BY ABRASION IN THE MICRO DEVAL APPARATUS

Sample Data		Test Data	
Sample Supplier	Canyon Gold & Gravel Inc.	Number of Revolutions:	100±5 rpm
Sample Location:	N/A	Diameter of Spheres:	9.5 mm
Sample Type:	Coarse Agg (28mm -5mm)	Mass of Spheres:	5000±5 grams
Date Sampled:	16-Apr-22	Mass of Sample Tested:	1500.2
Date Received:	16-Apr-22	Grading Category	Clause 6.2
Date Tested:	19-Apr-22	Tested By:	JR

Results:


ABRASION LOSS	3.6%
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Note: Calibration Aggregate (Drain Brothers), % Loss : 13.9%
Calibration Date: Dec 6, 2021

APPLICABLE REQUIREMENTS				
Standard	Section	Reference	Type	Max Loss (%)
CSA A23.1		Table 12	Coarse	17/21
			Fine	20

The test data reported pertains to the sample provided and may not be applicable to materials from other production zones

Per: 
Jaime Rivero
Laboratory Coordinator

Reviewed By: 
Jim Hernandez, ASCT
Laboratory Manager

TO: **CANYON GOLD & GRAVEL INC.**
Suite 200 100 Park Royal St
West Vancouver, BC., V7T 1A2

REPORT DATE: 2-May-22
PROJECT NO: VE40608

ATTN: **BRIAN HAUFF**

PROJECT: AGGREGATE PRE-QUALIFICATION TESTING 2022
SCOPE: AGGREGATE TESTING FOR USE IN CONCRETE PRODUCTION

CSA A23.2-23A

RESISTANCE OF FINE AGGREGATES TO DEGRADATION BY ABRASION IN THE MICRO DEVAL APPARATUS

Sample Supplier	Canyon Gold & Gravel Inc.	Number of Revolutions:	100±5 rpm
Sample Location:	N/A	Diameter of Spheres:	9.5 mm
Sample Type:	CONCRETE SAND	Mass of Spheres:	5000±5 grams
Date Sampled:	16-Apr-22	Mass of Sample Tested:	500.0
Date Received:	16-Apr-22	Grading Category	
Date Tested:	19-Apr-22	Tested By:	JR

Results:

ABRASION LOSS	10.8%
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Note: Calibration Aggregate (Sutherland), % Loss : 17.9%
Test completed on Dec 3, 2021

APPLICABLE REQUIREMENTS

Standard	Section	Reference	Type	Max Loss (%)
CSA A23.1		Table 12	Fine	20

Per:



Jaime Rivero
Laboratory Supervisor

Reviewed By:



Jim Hernandez, ASCT
Laboratory Manager

To: Canyon Gold & Gravel Inc.
 Suite 200-100 Park Royal S
 West Navcouver, BC V3T 1A2

Date: 16-May-22
 Project No.: VE40608

Project: Pre- Qualification for Concrete/ Asphalt Agg.

**Resistance to Degradation of Small-Size Coarse Aggregate
 by Abrasion and Impact in the Los Angeles Machine
 CSA A23.2-16A**


The Los Angeles test is a measure of degradation of mineral aggregates of standard gradings resulting from a combination of actions, including abrasion or attrition, impact, and grinding in a rotating steel drum. The test is an indicator of the relative quality or competence of various sources of aggregate.

Product	Date Sampled	Sample Source	Grading Used	Percent Loss of Tested Sample (0.1%)
40mm Coarse Aggregate	15-Apr-22	n/a	A	17.3
Contract Requirement:				n/a
CSA Specified Limit:				max 50

Comment:

Los Angeles abrasion loss is 17.3% which meets CSA requirements of max 50% loss for concrete exposed to freezing, or other exposure conditions.

Conducted by: 
Peregrina Israel
 Senior Laboratory Technician

Reviewed by: 
Andy Bernardino, ASCT
 Quality Supervisor/Technical Lead
 for Asphalt and Aggregate Laboratory
 CCIL Certified

TO: **CANYON GOLD & GRAVEL INC.**
 Suite 200 100 Park Royal St
 West Vancouver, BC., V7T 1A2

REPORT DATE: 11-May-22
 PROJECT NO: VE40608

ATTN: **BRIAN HAUFF**

PROJECT: AGGREGATE PRE-QUALIFICATION TESTING 2022
 SCOPE: AGGREGATE TESTING FOR USE IN CONCRETE PRODUCTION

CSA A23.2-3A
STANDARD TEST METHOD FOR CLAY LUMPS AND FRIABLE PARTICLES IN AGGREGATE

Sample Data	Test Data
Supplier	Date Sampled: 16-Apr-22
Sample Location:	Date Received: 16-Apr-22
Sample Type: Coarse Aggregates (28mm-5mm Gradation)	Date Tested: 19-Apr-22
Fine Aggregates (Concrete Sand)	Tested By JR


Results:


Clay Lumps - Sand	0.20%
Clay Lumps - Coarse	0.05%

Comments:

Test results meet the requirement as per CSA specifications as shown on table below:

Standard	Reference	Type	Max Limit (%)
CSA 23.1-09	Table 12	Fine	1.0
CSA 23.1-09	Table 12	Coarse	0.3/0.5

Per: 
Jaime Rivero
 Laboratory Supervisor

Reviewed By: 
Jim Hernandez ASCT
 Laboratory Manager

TO: **CANYON GOLD & GRAVEL INC.**
Suite 200 100 Park Royal St
West Vancouver, BC., V7T 1A2

REPORT DATE: 11-May-22
PROJECT NO: VE40608

ATTN: **BRIAN HAUFF**

PROJECT: AGGREGATE PRE-QUALIFICATION TESTING 2022
SCOPE: AGGREGATE TESTING FOR USE IN CONCRETE PRODUCTION

**CSA A23.2-4A
LOW-DENSITY GRANULAR MATERIAL IN AGGREGATE**

SAMPLE DATA	
SUPPLIER	DATE SAMPLED:
SOURCE:	DATE RECEIVED:
SAMPLE TYPE: Coarse Aggregates (28-5mm Aggregates)	DATE TESTED:
Fine Aggregates (Concrete Sand)	TESTED BY: JR

**Results:
COARSE AGGREGATES**

Content of Low-Density Particles (% by mass)	0.0
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FINE AGGREGATE

Content of Low-Density Particles (% by mass)	0.01
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Comments:

Test results meet the requirements as per CSA specifications as shown on table below.

Standard	Section	Reference	Type	Max Limit (%)
CSA	A23.1-09	Table 12	Fine	0.5
			Coarse	0.5

The test data reported pertains to the sample provided and may not be applicable to materials from other production zones

Per: 
Jaime Rivero
Laboratory Supervisor

Reviewed By: 
Jim Hernandez, ASCT
Laboratory Manager

TO: **CANYON GOLD & GRAVEL INC.**
Suite 200 100 Park Royal St
West Vancouver, BC., V7T 1A2

REPORT DATE: 30-Apr-22
PROJECT NO: VE40608

ATTN: **BRIAN HAUFF**

PROJECT: AGGREGATE PRE-QUALIFICATION TESTING 2022
SCOPE: AGGREGATE TESTING FOR USE IN CONCRETE PRODUCTION

CSA A23.2-13A
FLAT AND ELONGATED PARTICLES IN COARSE AGGREGATE

Sample Data		Test Data	
Supplier	Upland Contracting Ltd.	Date Sampled:	16-Apr-22
Sample Location:	Upland Pit #1	Date Received:	16-Apr-22
Sample Type:	Coarse Aggregates	Date Tested:	25-Apr-22
	(40-5mm Aggregates)	Tested By	JR

Results:

FLAT AND ELONGGATED PARTICLES	1.70%
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Note:


Procedure A (Length to Thickness Ratio 4:1)

Comments:

Standard	Section	Reference	Type	Max Limit (%)
CSA	A23.1:19	Table 12	Coarse	20.0

The test data reported pertains to the sample provided and may not be applicable to materials from other production zones.

Per: 
Jaime Rivero
Laboratory Supervisor

Reviewed By: 
Jim Hernandez, ASCT
Laboratory Manager

TO: **CANYON GOLD & GRAVEL INC.**
 Suite 200 100 Park Royal St
 West Vancouver, BC., V7T 1A2











REPORT DATE: 9-May-22
 PROJECT NO: VE40608

ATTN: **BRIAN HAUFF**

PROJECT: AGGREGATE PRE-QUALIFICATION TESTING 2022
 SCOPE: AGGREGATE TESTING FOR USE IN CONCRETE PRODUCTION

CSA A23.2 - 7A
TEST FOR ORGANIC IMPURITIES IN FINE AGGREGATES FOR CONCRETE

SAMPLE DATA		Test Data	
Supplier :	CANYON GOLD & GRAVEL INC.	Date Sampled:	16-Apr-22
Sample Location:	HOPE PIT, HOPE BC	Date Received:	16-Apr-22
Sample Type:	Concrete Sand	Date Tested:	5-May-22
		Tested By:	JR

Test Scope	Test Results	Ref. Organic Plate No.	
This test method covers the procedure for an approximate determination of the presence of possibly injurious organic compounds in natural sands that to be used in cement mortar or concrete. <div style="text-align: right; margin-top: 10px;">→</div>			1 (Light Yellow)
			2 (Yellow)
			3 (Standard, Orange)
			4 (Brown)
			5 (Black)

Note: When the color is darker than the standard color (Orange) , or organic plate #3, the fine aggregate under this test shall be considered to possibly contain injurious organic impurities.
 As per CSA A 23.2-7A fine aggregate failing the test may be used, if the amounts not exceeding 0.5% as determined in accordance with CSA Test Method A23.2-4A.

Per:



Jaime Rivero
 Laboratory Supervisor

Reviewed by:



Jim Hernandez, ASCT
 Laboratory Manager

TO: **CANYON GOLD & GRAVEL INC.**
Suite 200 100 Park Royal St
West Vancouver, BC., V7T 1A2

REPORT DATE: 16-May-22
PROJECT NO: VE40608

ATTN: **BRIAN HAUFF**

PROJECT: AGGREGATE PRE-QUALIFICATION TESTING 2022
SCOPE: AGGREGATE TESTING FOR USE IN CONCRETE PRODUCTION

CSA A23.2-24A
RESITANCE OF UNCONFINED COARSE AGGREGATE TO FREEZING AND THAWING

Sample Data		Test Data	
Sample Supplier	CANYON GOLD & GRAVEL INC.	Date Sampled:	16-Apr-22
Sample Location:	HOPE PIT, HOPE BC	Date Received:	16-Apr-22
Sample Type:	COARSE AGGREGATE	Date Tested:	1-May-22
	28 mm -5 mm	Tested By:	JR

Material Size Retained (mm)	Suggested Weights of Test Samples	Weight of Test Fractions Before Test	Weight of Test Fractions After Test	%Loss of Test Fraction	Grading of Tested Sample (%)	Weighted Percent Loss (%)
28 mm - 20 mm	2500.0	2503.1	2497.7	0.22	47.62	0.10
20 mm - 14 mm	1250.0	1250.2	1242.4	0.62	23.81	0.15
14 mm - 10 mm	1000.0	999.5	983.2	1.63	19.05	0.31
10 mm - 5 mm	500.0	499.9	484.9	3.00	9.52	0.29
TOTAL	5250.0	5252.7	5208.2		100.0	0.8

Results:


Loss after 5 cycles	0.8%
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Note: Calibration Aggregate (Drain Brothers), % Loss (Freeze & Thaw): 11.1%
Test completed on Dec 15, 2021

Comments:

Standard	Section	Reference	Type	Max Limit (%)
CSA	A23.1-09	Table 12	Coarse	6.0

The test data reported pertains to the sample provided and may not be applicable to materials from other production zones.

Per: 
Jaime Rivero
Laboratory Supervisor

Reviewed By: 
Jim Hernandez, ASCT
Laboratory Manager

TO: **CANYON GOLD & GRAVEL INC.**
Suite 200 100 Park Royal St
West Vancouver, BC., V7T 1A2

REPORT DATE: 25-May-22
PROJECT NO: VE40608

ATTN: **BRIAN HAUFF**

PROJECT: AGGREGATE PRE-QUALIFICATION TESTING 2022
SCOPE: AGGREGATE TESTING FOR USE IN CONCRETE PRODUCTION

CSA A23.2-5A
AMOUNT OF MATERIAL FINER THAN 80 µm IN AGGREGATE

SAMPLE DATA	Test Data
Sample I.D.	Date Sampled: 16-Apr-22
Sample Location: HOPE PIT, HOPE BC	Date Received: 16-Apr-22
Sample Type: COARSE & FINE AGGREGATES	Date Tested: 23-May-22
	Tested By: JR

Material Type	Material passing 80 µm screen (% by mass)
Fine Aggregates (SAND)	2.0%
Coarse AggregateS	0.2%

Comments


APPLICABLE REQUIREMENTS				
Standard	Section	Reference	Type	Max Limit (%)
CSA	A23.1-09	Table 12	Fine	3.0
MoTI	211	Table 211E	Fine	3.0

The test data reported pertains to the sample provided, and may not be applicable to materials from other production zones

Per:


Jaime Rivero
Laboratory Supervisor

Reviewed By:


Jim Hernandez, AScT
Laboratory Manager

TO: **CANYON GOLD & GRAVEL INC.**
 Suite 200 100 Park Royal St
 West Vancouver, BC., V7T 1A2

REPORT DATE: 2-May-22
 PROJECT NO: VE40608

ATTN: **BRIAN HAUFF**

PROJECT: AGGREGATE PRE-QUALIFICATION TESTING 2022
SCOPE: AGGREGATE TESTING FOR USE IN CONCRETE PRODUCTION

CSA A23.2-9A

SOUNDNESS OF COARSE AGGREGATE BY USE OF MAGNESIUM SULPHATE


Sample Data		Test Data	
Sample I.D.	Canyon Gold & Gravel Inc.	Solution Used:	MgSO ₄ -7H ₂ O
Sample Location:	N/A	Solution Specific Gravity:	1.300
Sample Type:	Coarse Agg	Solution Temperature:	21 ± 1 °C
Date Sampled:	16-Apr-22	Mass of Sample Tested:	1300.0
Date Received:	16-Apr-22	Test No:	1
Date Tested:	19-Apr-22	Tested By:	JR


Results:

Weighted Loss after 5 cycles	3.2%
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Comments: Test result meets the requirement as per CSA specs as shown on table below.

Standard	Section	Reference	Type	Max Limit (%)
CSA	A23.1-19	Table 12	Fine	12.0
			Coarse	16.0

Per: 
Jaime Rivero
 Laboratory Supervisor

Reviewed By: 
Jim Hernandez, ASCT
 Laboratory Manager

TO: **CANYON GOLD & GRAVEL INC.**
 Suite 200 100 Park Royal St
 West Vancouver, BC., V7T 1A2

REPORT DATE: 2-May-22
 PROJECT NO: VE40608

ATTN: **BRIAN HAUFF**

PROJECT: AGGREGATE PRE-QUALIFICATION TESTING 2022
SCOPE: AGGREGATE TESTING FOR USE IN CONCRETE PRODUCTION

CSA A23.2-9A
 SOUNDNESS OF FINE AGGREGATE BY USE OF MAGNESIUM SULPHATE

Sample Data		Test Data	
Sample Supplier	Canyon Gold & Gravel Inc.	Solution Used:	MgSO ₄ -7H ₂ O
Sample Location:	N/A	Solution Specific Gravity:	1.300
Sample Type:	CONCRETE SAND	Solution Temperature:	21 ± 1 °C
Date Sampled:	16-Apr-22	Mass of Sample Tested:	400.0
Date Received:	16-Apr-22	Test No:	
Date Tested:	April 19-29, 2022	Tested By:	JR

Material Size Retained (mm)	Weight of Test Fractions Before Test (g)	Weight of Test Fractions After Test (g)	%Loss	% OF ORIGINAL FRACTION	% OF TESTTED FRACTION	Weighted Percent Loss (%)
5.0 - 2.5	100.0	94.0	6.00	7.0	12.2	0.73
2.5 - 1.25	100.0	93.7	6.30	8.1	14.1	0.89
1.25 - 0.63	100.0	94.3	5.70	10.2	17.8	1.01
0.630 - 0.315	100.0	92.4	7.60	32.0	55.8	4.24
-(0.315)				42.7		
TOTAL	400.0	374.4		100.0	100.0	6.9


Results:


Loss after 5 cycles	6.9%
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Comments: Test result meets the requirement as per CSA specs as shown on table below.

Standard	Reference	Type	Max Limit (%)
CSA	Table 12	Fine	12.0
		Coarse	16.0

The test data reported pertains to the sample provided, and may not be applicable to materials from other production zones.

Per: 
James Rivero
 Laboratory Supervisor

Reviewed By: 
Jim Hernandez, AScT
 Laboratory Manager

To: **CANYON GOLD & GRAVEL INC.**
Suite 200 100 Park Royal St
West Vancouver, BC., V7T 1A2

TECHNICAL REPORT

Project No.: VE40608
Test Date: 25-May-2022
Sample #: 1
Client Ref.: 01-Coarse

Attention: **BRIAN HAUFF**

PROJECT: Aggregate Prequalification Testing

SUBJECT:

ASTM C295 Standard Guide for Petrographic Examination of Aggregates for Concrete
CSA A23.2 15A Petrographic Examination of Aggregates

Sieve fraction: 40 -5 mm Source: Canyon Gold Pit at Hope
Date sampled: Not provided
Date received: 16-Apr-2022
Tested by: HX Pit Run -Coarse Fraction

ESTIMATE PERCENT CRUSHED (\leq)	15%
ESTIMATE PERCENT FLAT AND ELONGATE	<1%

Rock Type	Number of particles	Weight of particles (g)	Percent of sample (%)	Petrographic		Classification	Notes
				Multiplier	Factor		
Granite (-Diorite)	-	842.0	18.4	1	18.4	GOOD	Subangular to subround, coarse grained, w/ porphritic K-felspar, massive, fresh, hard. Varied colors (pink/greenish and gray speckles).
	-	120.0	2.6	3	7.8	FAIR	
	-	17.0	0.4	6	2.2	POOR	
				10	0.0	DELETERIOUS	
Quartzite*	-	736.0	16.0	1	16.0	GOOD	Subangular to subround, massive, fresh to surface weathered, some particles fractured, very hard, pale.
	-	107.0	2.3	3	7.0	FAIR	
				6	0.0	POOR	
				10	0.0	DELETERIOUS	
Volcanic Basalt	-	799.0	17.4	1	17.4	GOOD	Subangular, fine grained, partially with vesicular texture, hard, signs of rust staining, strong to medium strong, dark gray.
	-	68.0	1.5	3	4.4	FAIR	
	-	60.0	1.3	6	7.8	POOR	
	-	26.0	0.6	10	5.7	DELETERIOUS	
Volcanic-Andesite*	-	1298.0	28.3	1	28.3	GOOD	Subangular, medium grained, fresh to surface weathered, some porphritic, hard and strong, greenish gray.
	-			3	0.0	FAIR	
	-	55.0	1.2	6	7.2	POOR	
				10	0.0	DELETERIOUS	
Rhyolite-(volcanic tuff)	-	209.0	4.6	1	4.6	GOOD	Subangular, porphritic, fresh, hard to moderate hard, pale to white.
				3	0.0	FAIR	
				6	0.0	POOR	
				10	0.0	DELETERIOUS	
Gneiss*	-	237.0	5.2	1	5.2	GOOD	Subangular, foliated, fine grained, minor surface weathered, very hard, light gray and white banded.
				3	0.0	FAIR	
	-	3.0	0.1	6	0.4	POOR	
				10	0.0	DELETERIOUS	
Schist	-	10.0	0.2	1	0.2	GOOD	Angular, platy, fine grained, fresh moderate strong, light gray.
				3	0.0	FAIR	
				6	0.0	POOR	
				10	0.0	DELETERIOUS	
Total	n/a	4587.0					

Minimum Particle count Minimum mass 4000g


Petrographic Number (PN)	133
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Comments: (1) The PN is not related to the potential of alkali-aggregate reactivity (AAR) of this aggregate when used in Portland cement concrete. AAR potential must be separately assessed.

(2) Rock types indicated by * may have potential for alkali-aggregate reaction (AAR). See CSA A23.1 and CSA A23.2 for information on the assessment of AAR in new concrete construction.

(3) Particles above 40 mm ($\leq 10\%$ of total wt.) were not included for analysis.

Product Type	PN limits
Concrete class C1, C2, F1	125 max
Other concrete classes	140 max
Shotcrete	125 max
Railroad ballast	125 max
Granular base	150 max
Select granular sub base	160 max

Per: 
Henry H. Xu, P.Eng.
Sr. Materials Engineer

Reporting of these test results constitutes a testing service only. Engineering interpretation or evaluation of test results is provided only on written request.

To: **CANYON GOLD & GRAVEL INC.**
Suite 200 100 Park Royal St
West Vancouver, BC., V7T 1A2

TECHNICAL REPORT

Project No.: VE40608
Test Date: 25-May-2022
Sample #: 1
Client Ref.: 01-Fine

Attention: BRIAN HAUFF

PROJECT: Aggregate Prequalification Testing

SUBJECT:

ASTM C295 Standard Guide for Petrographic Examination of Aggregates for Concrete
CSA A23.2 15A Petrographic Examination of Aggregates

Sieve fraction: < 5 mm (Fine) Source: Canyon Gold Pit at Hope
Date sampled: not provided
Date received: 16-Apr-2022
Tested by: HX Pit Run -Fine Fraction

	Total per Sieve Fraction (%)						Weighted Content %
	5.0- 2.5 mm	2.5- 1.25 mm	1.25- 0.630 mm	0.630- 0.315 mm	0.315- 0.160 mm	0.160- 0.08 mm	
Percentage of Sample (%)	7.1%	8.3%	10.4%	32.7%	32.0%	9.5%	**
Rock/ Mineral Type							
Volcanic-andesite	33	35	20	6			9.3
Volcanic-basalt & Amphoblite	22	11	7	5			4.8
Volcanic-felsic	8	5	7	3			2.7
Granite (-Diorite)	21	26	6	3			5.3
Garbro	3	2					0.4
Quartzite*	7	6	2	1			1.5
Gneiss*	1	1					0.2
Schist	4	3	1				0.6
Quartz (plus quartz vein particles)*		10	27	42	48	55	38.0
Plagioclase Feldspar			12	18	16	12	13.4
Alkali Feldspar			6	8	7	8	6.2
Hornblende			3	3	7	8	4.3
Mica-biotite				1	1	1	0.7
Mica-muscovite				2	2	1	1.4
Pyroxene			6	6	13	11	7.8
Garnet			1	1	3		1.4
Chlorite					2	3	0.9
Pyrite			1	1			0.4
Magnetite/iron oxides					1	1	0.4
Polyminerals							
Brittle particles							
Weathered Particles	1	1	1				0.3
Totals	100.0	100.0	100.0	100.0	100.0	100.0	100.0

**percentage recalculated/normalized, if certain sieve(s) less than 5% and not included in analysis.


Petrographic Number (PN)/Grade

Good

Comments:

- (1) Rock types predominately consists of volcanics with lesser amount of other species. Mineral grains comprised of about 75.2% of the evaluated sample and primarily consisted of quartz, feldspars, hornblende, proxene, lesser amount of mica, garnet, pyrite. Rock particles mostly persisted when the size is finer than 315 um. The mineral grains are generally hard to medium hard. Weathered and/ brittle particles are about 0.3% in the sample.
- (2) The PN grade is not related to the potential of alkali-aggregate reactivity (AAR) of this aggregate when used in Portland cement concrete. AAR potential must be separately assessed.
- (3) Rock types indicated by * may have potential for alkali-aggregate reaction (AAR). See CSA A23.1/2-2019 for information on the assessment of AAR in new concrete construction.

Per:


Henry H. Xu, P.Eng.
Sr. Materials Engineer

Reporting of these test results constitutes a testing service only. Engineering interpretation or evaluation of test results is provided only on written request.



CANYON GOLD
& GRAVEL



**SEPRO LABORATORIES
GOLD ASSAY LAB TESTING**



FIRE ASSAY REPORT

Method: Au, Fire Assay, 30g fusion, AAS finish. Detection 0.01-100 g/t Au.

Project: MS2060

Sample Name	Sample Number	Assay (ppm)
		Au
GL1 Sample #1	125881	5.64
GL1 Sample #2	125882	17.82
GL2 DH2	125883	25.21
GL2 DH3	125884	25.53
GL2 DH4	125885	12.31
GL3 DH2	125886	17.46
GL3 DH3	125887	8.77
GL3 DH4	125888	16.85
GL4 DH1	125889	17.78
GL4 DH2	125890	54.57
GL4 DH3	125891	10.92
GL4 DH4	125892	9.10
GL4 DH5	125893	18.47
GL5 DH1	125894	11.07
GL5 DH2	125895	6.55
GL5 DH3	125896	24.82
Head (Average)	-	17.68



SAMPLE RECEIVING LOG SHEET

Company:	Canyon Gold & Gravel Inc..	Courier:	
Project No:		Date:	Apr-27-22
Receiver:	Daniel	Page:	1

Count	Sample Label	Container Type	Sample Type (C, R, P, Sl, S)	Wet/Dry	Top Size	Weight (kg)
1	GL1 Sample #1	Bucket	sl	w		1.11
2	GL1 Sample #2	Bucket	sl	w		0.90
3	GL2 DH2	Bucket	sl	w		1.15
4	GL2 DH3	Bucket	sl	w		1.07
5	GL2 DH4	Bucket	sl	w		0.66
6	GL3 DH2	Bucket	sl	w		0.61
7	GL3 DH3	Bucket	sl	w		1.02
8	GL3 DH4	Bucket	sl	w		1.66
9	GL4 DH1	Bucket	sl	w		1.27
10	GL4 DH2	Bucket	sl	w		1.32
11	GL4 DH3	Bucket	sl	w		1.19
12	GL4 DH4	Bucket	sl	w		0.98
13	GL4 DH5	Bucket	sl	w		1.06
14	GL5 DH1	Bucket	sl	w		1.07
15	GL5 DH2	Bucket	sl	w		1.62
16	GL5 DH3	Bucket	sl	w		1.12
Note : Water on all samples						17.81
Core, Reject, Pulp, Slurry, Solution						

Picture:





FLOTATION TEST WORKSHEET

Client: Canyon Gold & Gravel Inc..
Test: CQ102
Sample: Head Sample (Undersize -300 μm)

Date: 12-May-22
Project: MS2060
Operator: Ja.T

Objective: Conduct scoping Au flotation on undersize (-300μm) sample to investigate the Au recovery.

Conditions:

Stage	Reagents added, g/t						Time, minutes			pH	ORP (mV)	Observations
	Lime	CuSO ₄	PAX	AMG900	3418A	MIBC	Grind	Cond.	Froth			
<i>Reagent Preparation</i>	10%	10%	0.5%	Drop	Drop	Drop						
Grind							0			6.63	228.0	
<i>Conditioning</i>			35		20			2		6.83	8.5	
Rougher 1						20			3	6.74	29.9	Floated to barren
<i>Conditioning</i>			30	10				2				
Rougher 2						25			4	7.20	-34.9	Floated to barren
<i>Conditioning</i>		300	40	10	15			8		5.97	246.0	Not much floated
Rougher 3						25			5			
Total		300	105		35	70	0	12	12			

Stage	Rougher
Flotation Cell	3L
Speed: r.p.m.	1200



FLOTATION TEST REPORT

Client: Canyon Gold & Gravel Inc..
Test: CQ102
Sample: Head Sample

Date: 12-May-22
Project: MS2060
Operator: Ja.T

Objective: Conduct scoping Au flotation on undersize (-300 μ m) sample to investigate the overall Au recovery.

Metallurgical Balance

Product	Weight		Assays, g/t ¹		Distribution, %	
	g	%	Au ¹		Au	
Total Oversize (+1mm)	350.9	15.0	0.01		0.01	
Total Oversize (-1mm+300 μ m)	965.3	41.4	0.01		0.02	
Rougher Concentrate 1	12.3	0.5	3319.70		97.20	
Rougher Concentrate 2	16.0	0.7	62.12		2.37	
Rougher Concentrate 1-2	28.3	1.2	1477.96		99.57	
Rougher Concentrate 3	15.9	0.7	10.00		0.38	
Rougher Concentrate 1-3	44.2	1.9	949.89		99.95	
Rougher Tails	973.6	41.7	0.01		0.02	
Calculated Head	2,334.0	100.0	18.00		100.00	
Assayed Head			17.68			



PARTICLE SIZE ANALYSIS

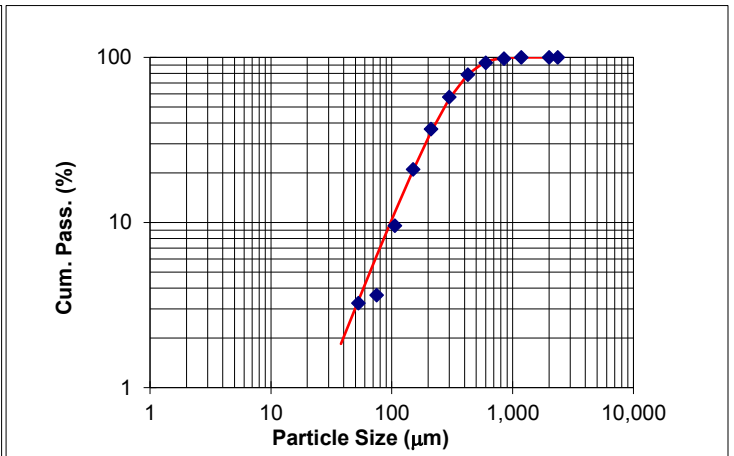
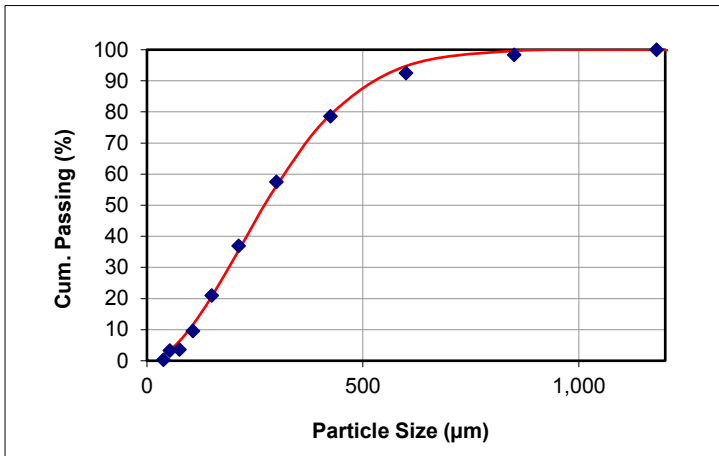
Client: Canyon Gold & Gravel Inc..
Test: CQ202
Sample: Head Sample

Date: 9-May-22
Project: MS2060

Sieve Size		Weight		Cumulative (%)	
Tyler Mesh	Microns	(g)	(%)	Retained	Passing
8	2,360	0.0			
9	2,000	0.0			
14	1,180	0.0			
20	850	2.5	1.62	1.62	98.38
28	600	9.0	5.84	7.47	92.53
35	425	21.4	13.90	21.36	78.64
48	300	32.6	21.17	42.53	57.47
65	212	31.7	20.58	63.12	36.88
100	150	24.5	15.91	79.03	20.97
150	106	17.6	11.43	90.45	9.55
200	75	9.1	5.91	96.36	3.64
270	53	0.6	0.39	96.75	3.25
400	38	4.5	2.92	99.68	0.32
Undersize	-38	0.5	0.32	100.00	
TOTAL:		154.0	100.0		

Rosin-Rammler Model	
Size (um)	Passing P (%)
431	80
273	50

Linear Interpolation	
Size (um)	Passing P (%)
442	80
268	50





**CANYON GOLD
& GRAVEL**

CONTACT INFORMATION

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