

*Leo Alarie and Sons Limited*

*Harmon Twp. Quarry Property  
Harmon Township  
Porcupine Mining Division*

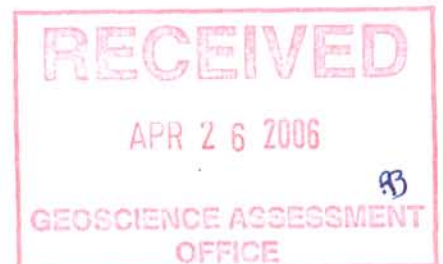
*Trenching & Sampling Report*

2.32085

*March 30, 2002006*

17 U 0416191E  
UTM 5546400N  
NAD 83

FUDGE  
*Associates*



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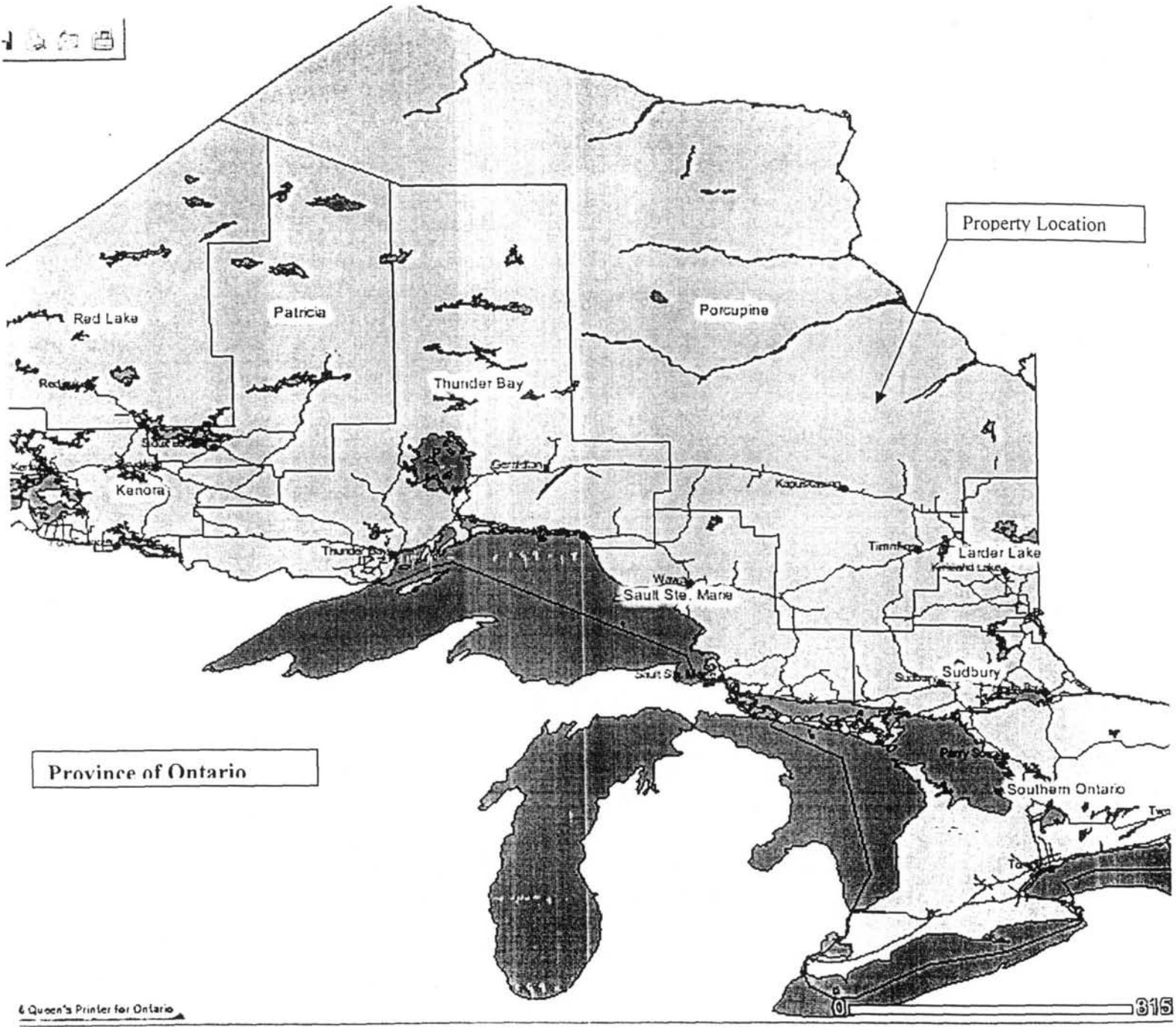
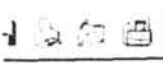
Location Map .....	Fig. 1
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**MAPS**

Plan of trench .....	Map 1
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**APPENDIX**

Laboratory Test Results .....	Appendix “A”
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Property Location

Province of Ontario

## 1.0 Introduction

This report deals with the logistics and results of stripping trenching and sampling program carried out the Harmon claim group beneficially held 100% for Leo Alarie and Sons Limited, in Harmon Township, Porcupine Mining Division.

The purpose of the program was to map and obtain a bedrock sample from the claims for testing purposes. The material is a potential source of quarry rock thought to be useful for production coarse fraction concrete stone. A freshly blasted sample was obtained from the trench and forwarded to John Emery Geotechnical Engineering for determination of physical and chemical properties.

The “Property” consists of 1 – 2 unit mining claim in the south-west corner of Kipling Township. The central portion of the claim group is transected by the Kipling/Smokey Falls Hydro Dam access road. The claims are recorded as follows and are beneficially held 100 % for Leo Alarie and Sons Limited.

### FUDGE, DON THOMAS

Township/Area	Claim Number	Recording Date	Claim Due Date	Status	Percent Option	Work Required	Total Applied	Total Reserve	Claim Bank
HARMON	<u>3018432</u>	2005-Oct-04	2007-Oct-04	A	100 %	\$ 800	\$ 0	\$ 0	\$ 0
HARMON	<u>3018433</u>	2005-Oct-04	2007-Oct-04	A	100 %	\$ 400	\$ 0	\$ 0	\$ 0

### FUDGE, WESLEY DONALD

Township/Area	Claim Number	Recording Date	Claim Due Date	Status	Percent Option	Work Required	Total Applied	Total Reserve	Claim Bank
HARMON	<u>3002831</u>	2005-May-09	2007-May-09	A	100 %	\$ 800	\$ 0	\$ 0	\$ 0
HARMON	<u>3018430</u>	2005-May-17	2007-May-17	A	100 %	\$ 2,400	\$ 0	\$ 0	\$ 0
HARMON	<u>3018431</u>	2005-May-17	2007-May-17	A	100 %	\$ 400	\$ 0	\$ 0	\$ 0

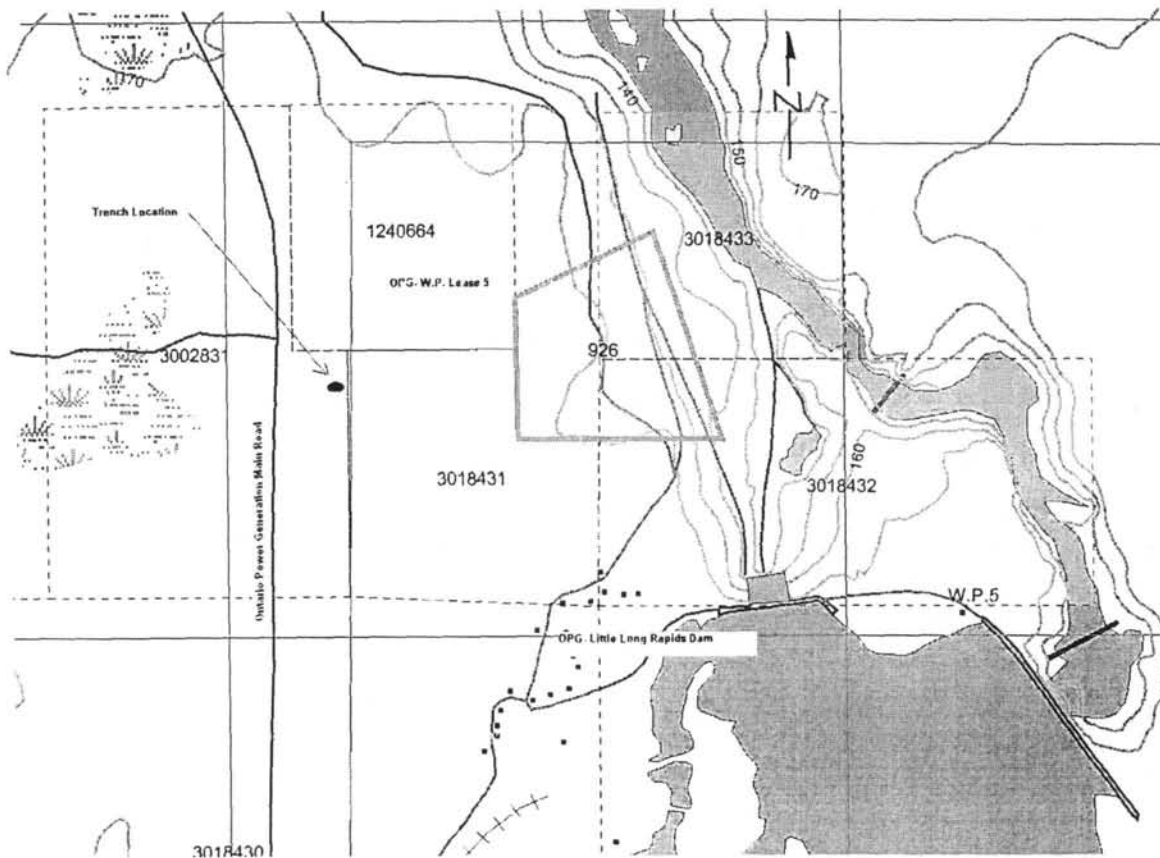
Fudge & Associates of North Bay, Ontario carried out the stripping trenching and sampling, the subject of this report for Leo Alarie and Sons Limited.

## 2.0 Location and Access

The “Property” is located 6.9 km north of the Little Long Rapids dam via the main access road. Its accessible from Highway 11 at Smooth Rock Fall north on Highway 637 (Fraserdale road), then west for approximately 45 km on Ontario Power Generation’s (OPG) Little Long Dam Road to the Little Long Generating Station then north on OPG roads for 6.9 km to the property. The main access road transects the central portion of the claim. See Fig. 2

## 3.0 Claim Status

The property is comprised of 5 staked mining claims for a total of 12 -16 hectare claim units registered to W. Fudge and D. Fudge and beneficially held 100% for Leo Alarie and Sons Limited.



Harmon Township Claim Group Fig. 2

The eastern portion of the property is covered by Ontario Power Generations (OPG) Water Power Lease which originally hosted the town site. The town site has been removed; no buildings remain.

#### **4.0 Personnel**

Fudge & Associates carried out prospecting, stripping, drilling and blasting and sampling between May 30<sup>th</sup> and June 1<sup>st</sup>, 2006. Field personnel were:

W. Fudge	North Bay, Ontario
D. Fudge	North Bay, Ontario

#### **5.0 Previous Work**

There is no known history of mining exploration work on the property. The area near the dam was subject to detailed geotechnical investigation however this information is not available in public files

#### **6.0 General Geology**

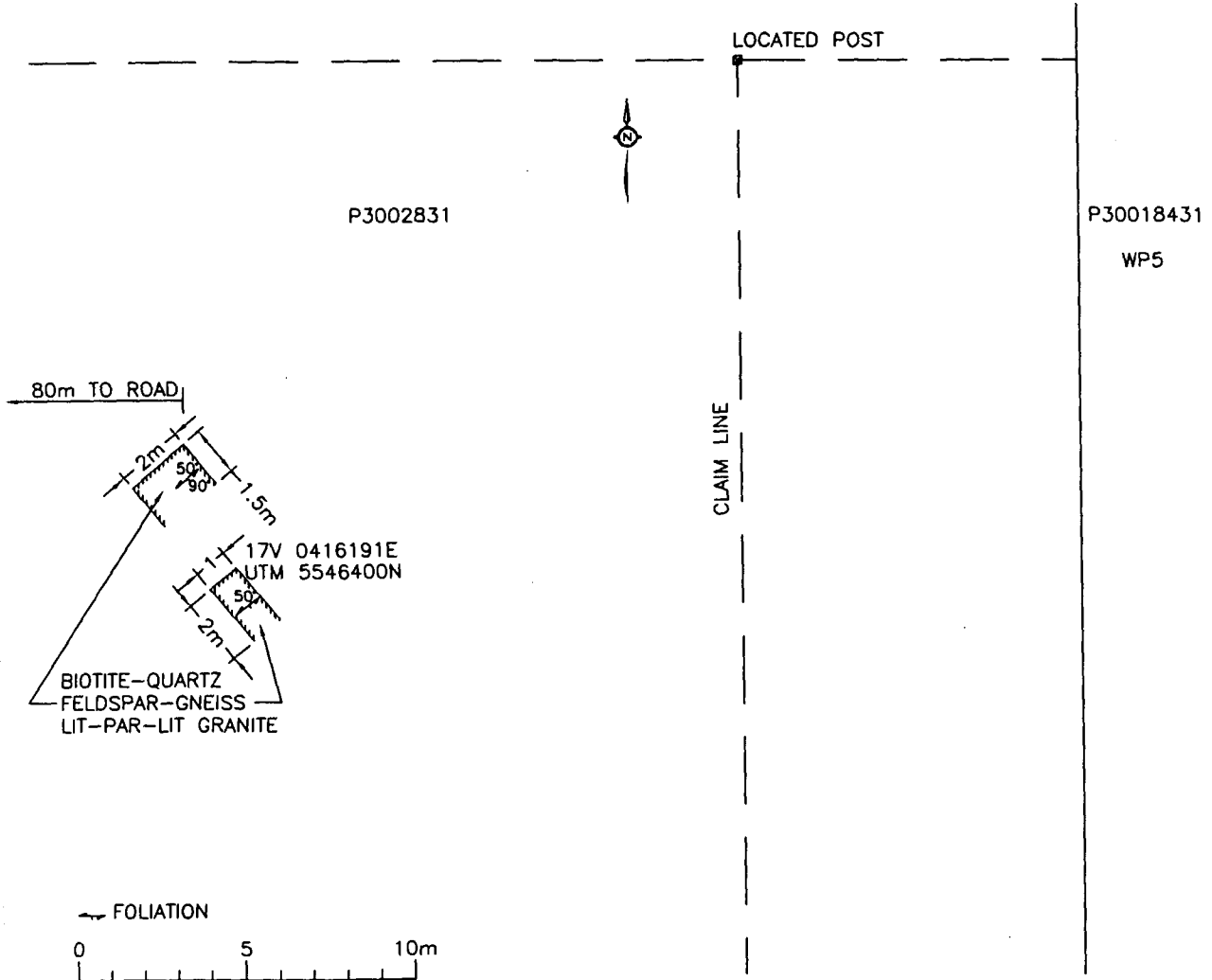
Geotechnical drilling associated with construction of the Smoke Falls Dam covers the eastern part of the claim group; however this information is not available in public files. Limited outcrop identified on ODM P. Map 396 and confirmed in the field shows the area to be underlain by a Migmatic-Metasedimentary-Metavolcanic rock unit.

#### **7.0 Work Program**

The prospecting and trenching program was carried out under the field supervision of D. Fudge. A trench location was chosen east of the main access road immediately west of OPG's water power lease where shallow overburden allowed for ready access to bedrock (17U 0416191E, UTM 5546400N, Nad 83). The chosen location was drilled and blasted to provide fresh samples for collection of a 50 kg representative sample. Samples were tagged, packed out and transported to Fudge & Associates offices in North Bay where they were further packaged for shipment to John Emery Geotechnical Engineering Limited in Toronto.

Trench rock displays a "Lit-par-lit" granite structure. Observed layering includes, biotite and hornblende –quartz feldspar gneiss and pink relatively unaltered granite. The unit is well foliated striking 50 degrees +/- (See Map 1).

HARMON TOWNSHIP



**FUDGE**  
&  
Associates

160 Bryan Road  
North Bay, Ontario  
Canada P1C 1L2

Client:



LEO ALARIE AND SONS LIMITED  
General Contractors

Head Office: P.O. Box 912,  
Timmins, Ontario  
P4N 7H1  
Tel. (705) 268-2106

Property: HARMON TWP.

Title: TRENCH SAMPLE 1 & 2

Drawn by: D. Cornick

Checked by: D. T. Fudge

Date: April 03, 2006

Scale: 1:200



Harmon Twp Trench 1



Harmon Twp Trench 2

The sample was prepared by laboratory crushing and tested in accordance with Canadian Standards Association (CSA) A23.1 and A23.2 requirements. Specific tests are listed following:



Petrographic Number, Concrete	MTO LS 609
Micro-Deval Abrasion	CSA A23.2-23A
Clay Lump	CSA A23.2-3A
Low Density Granular Materials	CSA A23.2-4A
Unconfined Freeze Thaw	CSA A23.2-24A
Accelerated Mortar Bar	CSA A23.2-25A or LS 620
Alkali-Carbonate Reactivity	CSA A23.2-26A

Test Results are listed in Appendix "A".

## **8.0 Conclusions and Recommendations**

Laboratory testing results confirms Micro-Deval Abrasion of 9.2, Unconfined Freeze Thaw at 3.1 and that sample is non-expansive (Alkali-Carbonate Reactivity). No deleterious materials were noted in Petrographic test, nor were sulphides or other leachabe material observed.

The coarse fraction sample from this location is suitable for use in concrete aggregates.

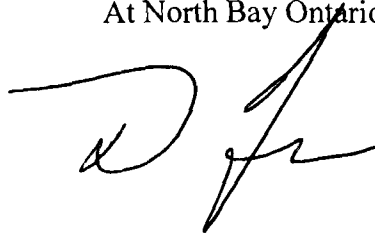
Further mechanical stripping is recommended to confirm accessible bedrock within the claim.

## CERTIFICATION

I, Donald Thomas Fudge of North Bay, Ontario hereby certify that:

1. I hold a three-year Business Administration Diploma from Cambrian College of Applied Arts, North Bay, Ontario obtained in 1969 and a Bachelor of Arts from Carleton University, Ottawa, Ontario obtained in 1973.
2. That I am a Prospector and have been practicing my profession since 1975 in Ontario, Quebec, Newfoundland, Manitoba, Alberta, British Columbia, The United States of America, Jamaica and China.
3. That I have been employed directly by Teck Corporation, Metallgesellschaft Canada Limited, and the Ontario Ministry of Natural Resources and have been self-employed with Fudge & Associates since 1984.
4. I have based my conclusions and recommendations contained in this report on knowledge of the area, my previous experience and on the results of the fieldwork conducted on the property.
5. That I hold no interest in the property either directly or indirectly.

Dated this 30<sup>th</sup> day of March 2006  
At North Bay Ontario



Don T. Fudge

**APPENDIX "A"**

**TABLE 5**  
**CONCRETE COARSE AGGREGATE**  
**PHYSICAL REQUIREMENTS**

Source:

Rock-Trench#2 (Harmon)

Laboratory Test	Acceptance Requirements		Reference Material Results	Sample Results	Aggregate is on concrete ASL (✓)	Out of Specification, *
	Concrete exposed to freezing and thawing	Other exposure conditions				
Wash Pass 80 µm Sieve (CSA A23.2-5A)	1.0 % maximum (2.0% for Crushed aggregate)	1.0 % maximum (2.0% for Crushed aggregate)				
Absorption (CSA A23.2-12A)	2.0 % loss maximum	2.0 % loss maximum				
Magnesium Sulphate Soundness (CSA A23.2-9A)	12 % loss maximum	18 % loss maximum				
Flat and Elongated Particles (CSA A23.2-13A)	20 % maximum	20 % maximum				
Petrographic Number, Concrete (LS-609)	125 maximum (attach petrographic description)	140 maximum (attach petrographic description)		100		
Micro-Deval Abrasion (CSA A23.2-23A)	17 % loss maximum	17 % loss maximum	19.1	9.2		
Clay Lumps (CSA A23.2-3A)	0.25 % maximum	0.5 % maximum		0.13		
Low Density Granular Materials (CSA A23.2-4A)	0.5 % maximum	1.0 % maximum		0.0		
Unconfined Freeze-Thaw (CSA A23.2-24A)	6 % loss maximum	10 % loss maximum	14.4	3.1		
Accelerated Mortar Bar (CSA A23.2-25A)	0.14 % maximum at 14 days 0.08 % maximum at 14 days (quarried sandstone, granite or gneiss)		0.396	In progress		
Alkali-Carbonate Reactivity (CSA A23.2-26A)	chemical composition must plot in non-expansive field of figure 1 of test method		attach data			
Concrete Prism Expansion (CSA A23.2-14A)	0.04 % maximum at 1 year					

**TABLE 4**  
**CONCRETE COARSE AGGREGATE**  
**GRADATION REQUIREMENTS, CSA A23.2-2A**

Source: Rock-Trench#2 (Harmon)

NOMINAL MAX. SIZE		40-5 mm	28-5 mm	20-5 mm	14-5 mm	10-2.5 mm	Out of Specification, *	
Sieve Size	PERCENT PASSING							
	Test Results	SPECIFICATION REQUIREMENTS						
56 mm		100						
40 mm		95-100	100					
28 mm	100.0	N/A	95-100	100				
20 mm	81.2	35-70	N/A	85-100	100			
14 mm	63.0	N/A	30-65	50-90	90-100	100		
10 mm	46.3	10-30	N/A	25-60	45-75	85-100		
5 mm	30.4	0-5	0-10	0-10	0-15	10-30		
2.5 mm	21.9	N/A	0-5	0-5	0-5	0-10		
1.25 mm	16.7	N/A	N/A	N/A	N/A	0-5		

\* Note: Laboratory crushed rock core sample.

**PETROGRAPHIC NUMBER, CONCRETE, MTO LS-609 JEGEL 105111**  
**TABLE 6**

COARSE AGGREGATE PETROGRAPHIC ANALYSIS																								
PIT NAME: Rock-Trench#2 (Harmon)		Fudge & Associates		JEGEL: 105111																				
DATE: 28/06/2005	FRACTION 19.0 - 9.5 mm	ANALYST: JY	ID#: 10883																					
TYPE No.	TYPE	MASS	%	GRANULAR & 16.0 mm TYPE B CORRECTION																				
1	CARBONATE (hard; silty, hard)																							
20	CARBONATE (surface weathered; silt, surface weathered; medium hard; silty, medium hard)																							
2	CARBONATE (sandy, hard or medium hard)																							
21	CARBONATE (slightly cherty: <5%chert)																							
23	MARBLE (hard or medium hard)																							
3	CONGLOMERATE-SANDSTONE-ARKOSE (hard)																							
22	CONGLOMERATE-SANDSTONE-ARKOSE (medium hard)																							
6	GREYWACKE-ARGILLITE (hard or medium hard)																							
4	GNEISS-AMPHIBOLITE -SCHIST (hard)	935.4	93.1																					
5	QUARTZITE																							
8	GRANITE-DIORITE-GABBRO (hard)	69.6	6.9																					
7	VOLCANIC (hard)																							
9	TRAP (<20% sulphide)																							
10	QUARTZ (vein or pegmatitic)																							
77	GYP SITE (<10% gypsum)																							
	<b>TOTAL GOOD AGGREGATE</b>	<b>1005.0</b>	<b>100.0</b>																					
35	CARBONATE (soft; silty, soft, slightly shaley)			x2																				
41	CARBONATE (soft, pitted)			x2																				
42	CARBONATE (deeply weathered; silty, deeply weathered)																							
40	CARBONATE (sandy, soft)			x2																				
24	MARBLE (brittle)			x2																				
26	CHERT-CHERTY CARBONATE (<20% leached chert)			x2																				
30	CONGLOMERATE-SANDSTONE-ARKOSE (brittle)			x2																				
29	GREYWACKE (brittle)			x2																				
52	ENCRUSTATION			x2																				
25	GNEISS-AMPHIBOLITE-SCHIST (brittle)			x2																				
34	ARGILLITE (medium soft)			x2																				
27	GRANITE-DIORITE-GABBRO (brittle)			x2																				
28	VOLCANIC (soft)			x2																				
	<b>TOTAL FAIR AGGREGATE</b>	<b>0.0</b>	<b>0.0</b>																					
43	CARBONATE (shaley; clayey; silty, clayey)																							
44	CARBONATE (ochreous; sandy, ochreous)																							
49	MARBLE (friable)			x3																				
45	CHERT-CHERTY CARBONATE (>20% leached chert)			x5																				
46	CONGLOMERATE-SANDSTONE-ARKOSE (friable)			x3																				
56	SILTSTONE			x3																				
53	CEMENTATION (partial)			x3																				
54	CEMENTATION (total)																							
50	GNEISS-AMPHIBOLITE (friable)			x3																				
55	SCHIST (soft)			x3																				
51	GRANITE-DIORITE-GABBRO (friable)			x3																				
48	VOLCANIC (very soft, porous)			x3																				
78	GYP SITE (gypsum 10 to 49%)			x3																				
	<b>TOTAL POOR AGGREGATE</b>	<b>0.0</b>	<b>0.0</b>																					
60	OCHRE																							
61	SHALE																							
62	CLAY																							
63	VOLCANIC-GNEISS-SCHIST (decomposed)																							
	<b>TOTAL DELETERIOUS AGGREGATE</b>	<b>0.0</b>	<b>0.0</b>																					
	<b>TOTALS</b>	<b>1005.0</b>	<b>100.0</b>	<b>0.0</b>																				
<table border="0"> <tr> <td>% GOOD</td> <td>100.0</td> <td>x 1</td> <td>100.0</td> <td></td> </tr> <tr> <td>% FAIR</td> <td>0.0</td> <td>x 3</td> <td></td> <td></td> </tr> <tr> <td>% POOR</td> <td>0.0</td> <td>x 6</td> <td></td> <td></td> </tr> <tr> <td>% DELETERIOUS</td> <td>0.0</td> <td>x 10</td> <td></td> <td></td> </tr> </table>					% GOOD	100.0	x 1	100.0		% FAIR	0.0	x 3			% POOR	0.0	x 6			% DELETERIOUS	0.0	x 10		
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HOT MIX, SURFACE TREATMENT AND CONCRETE P.N.		100		<table border="1"> <tr><td>EST. PERCENT CRUSHED</td><td>100</td></tr> <tr><td>EST. PERCENT FLATS &amp; ELONGATED</td><td>&lt;5</td></tr> <tr><td>CORRECTED GRANULAR AND 16.0 mm TYPE B P.N.</td><td>100</td></tr> </table>	EST. PERCENT CRUSHED	100	EST. PERCENT FLATS & ELONGATED	<5	CORRECTED GRANULAR AND 16.0 mm TYPE B P.N.	100														
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