

## Source Detail

AIMS

Selection Criteria: Source: Nicolum Creek Quarry (2757)

### Nicolum Creek Quarry

<b>Source ID</b>	2757	<b>File Num</b>	39100-20-Nicolum Q	<b>UTM Zone</b>	10
<b>Type</b>	Quarry	<b>Service Area</b>	7: Fraser Valley	<b>UTM Easting</b>	619800
<b>Licensed</b>	Yes	<b>Tenure Status</b>	Section 16	<b>UTM Northing</b>	5469100
<b>Hectares</b>	4.32	<b>Dev Status</b>	Active	<b>NTS Map Num</b>	92H/6
<b>Location</b>	4.5 km east of Hope at the junction of Hwy 3 and Hwy 5				
<b>Comments</b>	PDP 2004. Pit last evaluated 2004.				

Frequency of Ministry of Energy and Mines inspections: 2009, 2014  
 Mines inspection in Aug 2014 requiring runaway protection, road widening, and shoulder protection (higher berms). These concerns were addressed in 2016 by widening the road, improving shoulder protection, and installing a crash attenuation system.

### Geotech Information (by Source Area)

<b>A</b>	<b>Gravel</b>	84	<b>Degradation</b>	82	<b>Microdev - Coarse</b>	<b>Spec. Gravity - Coarse</b>	2.670
	<b>Sand</b>	15	<b>Sand Equiv</b>	75	<b>Microdev - Fine</b>	<b>Spec. Gravity - Fine</b>	
	<b>Fines</b>	1	<b>MgSO4 - Coarse</b>	2	<b>Microdev - Avg</b>	<b>Absorption - Coarse</b>	0.9
	<b>Oversize</b>	0	<b>MgSO4 - Fine</b>	10	<b>Petrographic Num</b>	<b>Absorption - Fine</b>	

### Legal Land Description

<b>PIN</b>		<b>Description</b>	NE1/4, Sec6, TP5, R25, W6M
<b>File Num</b>	2405226		Expires November 1, 2111
<b>Reserve Num</b>	R112122		
<b>Property File</b>	R-7213 PS 26006		

### Development Information

<b>Pit Dev Plan Month/Year</b>	May 2012	<b>Dev Comments</b>	Keep working the top.
<b>Update Required</b>	No	<b>Dev History</b>	The quarry only dates back to the early 1990's with favourable results for any size Rip-Rap. The property was logged in 1995 and 2 small access roads were constructed (doesn't meet today's Mine's code).
<b>Last Evaluated Month/Year</b>	Apr 2004	<b>Constraints</b>	AOA completed in March 1998 and given the low to moderate potential for archaeological sites, no further work recommended.
		<b>FN Consult</b>	

### Material Quantities

<b>Area</b>	<b>Proven</b>	<b>Potential</b>	<b>Approved Usage</b>
A		611,590	250RIP, 25WGB, 50WGB, 75WGB

### Current Aggregate Inventory

<b>Material</b>	<b>Volume</b>
250RIP 250 kg riprap	-1,585
NRK natural rock	-3,593
QRK quarried rock	-1,312

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**Nicolum Creek Quarry**

**Exploration History**

Month/Year	Completed by	Details
Jan 1997	MoT - Laboratory Analysis of rock samples	
Apr 2004	MoT - Laboratory Analysis of rock samples	Collected rock samples and evaluated quarry for use as base course and paving aggregates

**Site Surveys**

Month/Year	Type
May 2011	DEM (ortho)
Apr 2004	DEM (ortho)

**Summary Information**

<b>Comments</b>	<p>PDP 2004. Pit last evaluated 2004.</p> <p>Frequency of Ministry of Energy and Mines inspections: 2009, 2014                      Mines inspection in Aug 2014 requiring runaway protection, road widening, and shoulder protection (higher berms). These concerns were addressed in 2016 by widening the road, improving shoulder protection, and installing a crash attenuation system.</p>
<b>Site Reclamation</b>	<p>Topsoil and overburden should be stockpiled separately and seeded to prevent erosion, these stockpiles are to be used for final pit reclamation.                      All interim sloping in area B is to be left at 11/2H to 1V. Area A to be developed/reclaimed in 8x8 metre benches                      Final sloping shall be 2H to 1V                      All reclamation works shall be in accordance with Ministry of Mines regulations and MoT Reclamation and Environmental Protection Handbook for Sand, Gravel and Quarry Operations in British Columbia.</p>
<b>Geology/ Geomorphology</b>	<p>95% Granodiorite, 5% Aplite. The Granodiorites can be identified with a small early Tertiary pluton (40-64 Ma) while the aplite is a vein/dyke rock with similar mineralogy. A possible outlier of the Mount Outram Pluton the aplite is most likely sourced from the later stages of cooling and solidification of the pluton.</p>