

## Source Detail

AIMS

Selection Criteria: Raven (0152)

### Raven

<b>Source ID</b>	0152	<b>File Num</b>	39100-20-Raven	<b>UTM Zone</b>	10
<b>Type</b>	Gravel Pit	<b>Service Area</b>	3: North Island	<b>UTM Easting</b>	348500
<b>Licensed</b>	Yes	<b>Tenure Status</b>	Section 16	<b>UTM Northing</b>	5506800
<b>Hectares</b>	57.4	<b>Dev Status</b>	Active	<b>NTS Map Num</b>	92 F 11
<b>Location</b>	North of Browns River and West of Hwy 19. Access is 4.1 km from the Hwy 19 Piercy Road exit via Piercy Road, Forbidden Plateau Road and Duncan Bay Mainline Road.				
<b>Comments</b>	PDP0152-JAN14. Pit last evaluated 2014. Concern with quality due to low degradation were found in 1989/1994 evaluation. Re-evaluated in 2014 and all Micro Deval values are less than 15%; well within limits for paving.				

### Geotech Information (by Source Area)

Area	Gravel	Sand	Fines	Oversize	Degradation	Sand Equiv	MgSO4 - Coarse	MgSO4 - Fine	Microdev - Coarse	Microdev - Fine	Microdev - Avg	Petrographic Num	Spec. Gravity - Coarse	Spec. Gravity - Fine	Absorption - Coarse	Absorption - Fine
A	60	38	2	11			5	13	11	12			2.830	2.680	1.8	3.3
B	46	52	2	6			5	13	14	12			2.780	2.690	1.9	3.2

### Legal Land Description

	Description
<b>PIN</b>	Uns portion S 1/2 of NE 1/4 (reserve), NW 1/4 of NE 1/4, NE 1/4 & part SE 1/4 of NW 1/4, S 1/2 of NE 1/4 of NE 1/4 (all MoTH purch), sec.17, Tp9, Plan 552G exc. plan 1320 R/W & S 30 acres of the E 1/2 of NW 1/4, all Comox L.D.
<b>File Num</b>	1402714
<b>Reserve Num</b>	84-197/891034
<b>Property File</b>	R3969/R3952

### Development Information

<b>Pit Dev Plan Month/Year</b>	Jan 2014	<b>Dev Comments</b>	Groundwater levels: TH89-1 (1.9 m), TH89-7 (9.3 m), TH89-18 (13 m), TH89-19 (8.3 m), TH89-20 (14 m), TP94-1 (1.5 m), TP94-13 (4.8 m).
<b>Update Required</b>	No		
<b>Last Evaluated Month/Year</b>	Jan 2014		
		<b>Dev History</b>	Gorundwater levels (Nov 2013): TP13-1 (3.1 m or at 114 m elevation), TP13-2 (3.2 m or at 115.4 m), TP13-3 (0.8 m or at 120.8 m), TP13-4 (3.5 m or at 119.7 m), TP13-8 (5.5 m or at 125.2 m), TP13-20 (6.0 m or at 147.6 m). Crushing contract for 15,000 m3 of 19mm WGB Feb-Mar 2006. MC crushing July 2012 - 17,000 m3 various products
		<b>Constraints</b>	AIA Report completed 2016, found 1 lithic artifact. Timberwest RUA expires July 11, 2018 Elcor Pit RUA expired December 31, 2014 Edgett (Brown's River Holdings) RUA expired December 31, 2015
		<b>FN Consult</b>	

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## Material Quantities

Area	Proven	Potential	Approved Usage
A	1,112,000	5,418,000	25WGB, CAMA, MAMA
B	878,000	4,662,000	BEF, PIT, SGSB, WAB

## Current Aggregate Inventory

Material	Volume
100RIP 100 kg riprap	-592
25WGB 19/25mm well graded base	16,359
50WGB 38/50mm well graded base	2,228
NRK natural rock	661
PIT pit-run granular aggregate	-73,385
PPIT purchased pit-run aggregate	-40
WAB winter abrasive	-6,463

## Exploration History

Month/Year	Completed by	Details
Jul 1994	MoT	27-Test Pits Dug With Excavator, Depth Range 1.5m to 6.1m.
Jun 1989	MoT	20-Test Holes Drilled With Becker Drill, Depth Range 6.2m to 16.4m.
Feb 1983	MoT	32-Test Holes Drilled With Auger, Depth Range 2.6m to 15.3m. 11-Test Pits Dug With Backhoe, Depth Range 1.8m to 5.5m.
Nov 2013	MoT	30 test pits dug with an excavator to a depth range of 1.0 m to 6.0 m.

## Site Surveys

Month/Year	Type
May 2003	DEM (ortho)
Oct 1994	DEM (survey)
Nov 2012	DEM (ortho)

## Summary Information

<b>Comments</b>	PDP0152-JAN14. Pit last evaluated 2014. Concern with quality due to low degradation were found in 1989/1994 evaluation. Re-evaluated in 2014 and all Micro Deval values are less than 15%; well within limits for paving.
<b>Site Reclamation</b>	End land use will be reclaimed to forest. 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 is to be left at 11/2H to 1V. 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.
<b>Geology/ Geomorphology</b>	Recommend hydrogeological study.