

ENGINEERED COST ESTIMATE WORKSHEET SUMMARY

July 2016 ECE Workbook Version 2016.0

Licensee : TOLKO Ind Ltd User: Tolko Industries Ltd Date : Dec. 19, 2016
 License # : TFL49
 Cutting Permit # : 991
 Road Permit # : R07602-249
 Road Group : 9
 Road Section Identifier : ECE#3
 Road Name: Mine Road AS3019
 Road Section Location: from 0 m to 130 m
 Road Section Length : 130 m.
 Biogeo. Zone : IDF
 Site Factor : Moderate
 Moisture Factor : Dry - Moist

ROAD GROUP					
1	2	3	4	5	6
0	Skeena-Stikine	Nadina	0	Vanderhoof	0
7	8	9	10	11	12
Peace Fort Nelson	0	Cascades	Rocky Mtn	0	0

Grand Total	\$14,834.31
Cost per km	\$114,110
Cost Base Year	2014

Uphill Sideslopes >50% as per IAM 4.3.3.6.b

Use of this PROGRAM is subject to the terms and conditions of the attached License Agreement.

July 2016 ECE Workbook Version 2016.0

Construction Phase	Equipment	Total Hours	Phase Cost	Unit Costs
R/W Handling	Excavator	0.00	\$0.00	\$0.00 per ha
Stumping	Excavator	0.83	\$182.72	\$826.81 per ha
Stripping	Excavator	2.48	\$542.24	\$1.23 per Bm3
Primary Excavation	Excavator	13.93	\$3,050.71	\$5.16 per Bm3
Drilling and Blasting	M32 Tank Drill	0.00	\$0.00	\$0.00 per Bm3
	Materials	N/A	\$0.00	\$0.00 per Bm3
Excavate & Load	Excavator	23.59	\$5,168.17	\$3.66 per Bm3
Hauling*	Articulated off-highway truck	23.59	\$3,808.83	\$2.70 per Bm3
Spreading / Spoil Site	Crawler Tractor	10.49	\$1,919.82	\$1.36 per Bm3
Long Push	Crawler Tractor	0.00	\$0.00	\$0.00 per Bm3
Drainage Structures		N/A	\$0.00	\$0.00
Grass Seeding		N/A	\$161.82	\$1,244.78 per km
Surfacing		N/A	\$0.00	\$0.00 per km
Mob and Demob		0.00	\$0.00	\$0.00 per hour
Additional Costs		N/A	\$0.00	\$0.00

* Hauling controlled by the excavator