

Electronic Field Vane Shear Test Summary and Results



Job No: 14-02091
Client: Mount Polley Mining Corporation
Project: Mount Polley Mine, Likely, BC
Start Date: 09-Oct-2014
End Date: 04-Nov-2014

ELECTRONIC FIELD VANE SHEAR TEST PROFILE SUMMARY

Sounding ID	File Name	Adjacent Test Sounding ID	Date	Northing ¹ (m)	Easting (m)	Elevation (m)	Refer to Notation Number
VST14-03	14-02091_VST14-03	RSCPT14-03	09-Oct-2014	5819934.14	595129.01	932.77	
VST14-10	14-02091_VST14-10	RSCPT14-10	20-Oct-2014	5819962.22	595152.14	932.08	
VST14-10B	14-02091_VST14-10B	RSCPT14-10B	04-Nov-2014	5819967	595139	930.9	2
VST14-22	14-02091_VST14-22	RSCPT14-22	04-Nov-2014	5819982	595124	929.8	2

1. Coordinates were provided by the client in a localized Tailings Grid datum which was noted to be similar to datum NAD 83.
2. Coordinates were obtained from a handheld GPS in datum NAD83 UTM Zone 10 North. Elevation was based on adjacent sample location.



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ELECTRONIC FIELD VANE SHEAR TEST RESULTS

Sounding ID	File Name	Date	Load Cell Serial Number	Test Depth ¹ (m)	Vane Diameter D (mm)	Vane Height H (mm)	Top Taper Angle i_T (deg)	Bottom Taper Angle i_B (deg)	Peak Torque (Nm)	Remolded Torque (Nm)	Su Peak (kPa)	Su Remolded (kPa)	Sensitivity	Refer to Notation Number
VST14-03	14-02091_VST14-03	09-Oct-2014	AVLC011	6.93	55	110	0	0	99.9		163.9			2
VST14-03	14-02091_VST14-03	09-Oct-2014	AVLC010	12.20	55	110	0	0	90.8	14.0	148.9	22.9	7	3
VST14-03	14-02091_VST14-03	09-Oct-2014	AVLC010	12.50	55	110	0	0	83.5	34.8	137.0	57.1	2	3
VST14-03	14-02091_VST14-03	09-Oct-2014	AVLC010	12.80	55	110	0	0	51.9	35.8	85.1	58.7	1	3
VST14-03	14-02091_VST14-03	09-Oct-2014	AVLC010	13.13	55	110	0	0	74.5	26.0	122.1	42.6	3	3
VST14-10	14-02091_VST14-10	20-Oct-2014	AVLC010	11.48	55	110	0	0	56.0	11.9	91.9	19.5	5	4
VST14-10	14-02091_VST14-10	20-Oct-2014	AVLC010	11.78	55	110	0	0	98.5	20.9	161.6	34.2	5	3
VST14-10	14-02091_VST14-10	20-Oct-2014	AVLC010	12.08	55	110	0	0	39.0	20.4	64.0	33.5	2	3
VST14-10B	14-02091_VST14-10B	04-Nov-2014	AVLC010	11.40	50	110	0	45	96.7	45.6	189.2	89.3	2	
VST14-22	14-02091_VST14-22	04-Nov-2014	AVLC010	9.70	50	110	0	45	66.7	22.9	130.5	44.8	3	

1. Test depths are referenced to the middle of the vane.
2. Load cell was maxed out during the test. The vane blade was noted to be damaged when it was brought back to ground surface.
3. The vane blade was damaged during testing and it is unknown when it occurred. A damaged vane blade may compromise data quality. Photographs of the vane blade are provided in the data release folder.
4. A stiff layer was encountered prior to the vane test depth. It is possible the vane blade was damaged during this push. A damaged vane blade may compromise data quality.