



**UNDERHILL & UNDERHILL
UNDERHILL ENGINEERING LTD.**

Engineers & Surveyors

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TO: Max Wheaton
Curragh Resources Inc.
Faro Minesite Survey Dept.

OUR FILE Y 2678X

YOUR FILE _____

PROJECT

Down Valley Tailings Containment
Project - Deformation Network

WE ARE SENDING YOU:

- Enclosed By Messenger _____

- lists of Oct/88 horizontal coordinates & elevations of deformation network stations. Both coords & elev.'s are referred to the mine datum.
- print of our drawing 126-21 of the deformation network

- As Requested
 For Your Information

BY: Brian Thompson, CLS

DATE: July 6/89

CODE	POINT	EASTING	NORTHING
87	288	2235.6941	675.1925
87	559	482.4174	1411.7024
87	289	2591.4301	1555.3617
87	550	2054.5308	748.2262
87	840	1020.8670	1199.5116
87	499	-240.5220	1915.2167
87	551	-284.2437	1879.2857
87	290	1743.7107	1767.1734
87	414	659.9643	1309.2849
87	153	1522.8513	1006.6164
87	291	1097.3883	2212.5641
87	282	-3.1279	1596.9634
87	154	1540.5226	1045.4771
87	292	567.4643	2424.6192
87	416	-48.2703	2076.3886
87	155	1185.4691	1140.5688
87	284	856.6423	1207.5388
87	156	1030.9606	1232.8195
87	418	-180.2436	1898.7593
87	157	1055.1188	1271.8254
87	409	511.6388	1454.9585
87	419	-160.8774	1852.4023
87	158	702.3609	1395.7087
87	500	-505.7346	2311.1376
87	159	689.6875	1356.7115
87	410	420.9744	1480.7544
87	411	283.3716	1570.8765
87	502	68.5739	2303.9979
87	415	6.7286	2182.9002
87	417	-97.3669	1981.1003
87	495	-444.3235	2050.7795
87	497	-398.1069	2110.3236
87	498	-539.2706	2286.6533
87	552	-214.2902	1796.0887
87	553	-200.7912	1817.1333
87	555	1536.7831	951.8602
87	557	2043.6329	707.9331
87	609	469.3206	1975.9158

*Coordinates of Deformation Network Survey
Stations October, 1988.
Coords are referred to ~~B~~ Down Valley
Tailings Containment Project Mine Datum.*



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FARO DEFORMATION SURVEY

CANAL DYKE

UEL STN	STATION DESCRIPTION	OCT./86 ELEVATION	OCT./88 ELEVATION
	0 + 150 CD	1090.613	1090.612
	0 + 300 CD	1089.973	1089.979
550	0 + 400 CD	1089.934	1089.943
	0 + 510 CD	1089.811	1089.817
	0 + 610 CD	1089.817	1089.824
	0 + 710 CD	1089.507	1089.516
	0 + 840 CD	1088.998	1089.004
	0 + 960 CD	1088.633	1088.632
153	0 + 990 CD	1088.657	1088.655
	1 + 110 CD	1088.236	1088.230
	1 + 230 CD	1088.123	1088.115
155	1 + 350 CD	1087.694	1087.690
	1 + 440 CD	1087.561	1087.558
156	1 + 530 CD	1087.259	1087.255
	1 + 610 CD	1087.101	1087.005
	1 + 705 CD	1087.011	1087.017
	1 + 800 CD	1086.872	1086.784
159	1 + 900 CD	1086.612	1086.554
	2 + 000 CD	1086.567	1086.558
409	2 + 100 CD	1086.162	1086.110
410	2 + 200 CD	1085.686	1085.638
	2 + 260 CD	1085.927	1085.931

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UEL STN	STATION DESCRIPTION	OCT./86 ELEVATION	OCT./88 ELEVATION
411	2 + 365 CD	1085.783	1085.784
	2 + 460 CD	1085.654	1085.660
	2 + 600 CD	1085.649	1085.652
	2 + 765 CD	1085.344	1085.347
419	2 + 900 CD	1080.710	1080.704
499	3 + 000 CD	1074.950	1074.909
496	3 + 130 CD	1068.841	1068.840
497	3 + 300 CD	1060.481	1060.483
500	3 + 550 CD	1057.290	1057.294

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FARO DEFORMATION SURVEY

CANAL BACKSLOPE

UEL	STATION	OCT./86	OCT./88
STN	DESCRIPTION	ELEVATION	ELEVATION
	0 + 150 BS	1095.834	1095.833
557	0 + 400 BS	1094.028	1094.025
	0 + 610 BS	1104.408	1104.404
555	0 + 960 BS	1092.573	1092.572
	1 + 110 BS	1089.117	1089.114
	1 + 200 BS	1098.946	1098.878
	1 + 300 BS	1096.792	1096.788
840	1 + 530 BS	1088.496	1088.501
414	1 + 900 BS	1098.093	1098.042
559	2 + 100 BS	1094.972	1094.946
	2 + 260 BS	1094.485	1094.486
	2 + 460 BS	1094.112	1094.099
	2 + 560 BS	1091.510	1091.501
	2 + 760 BS	1090.445	1090.446
553	2 + 900 BS(Lower)	1087.868	1087.844
552	2 + 900 BS(Upper)	1092.549	1092.543
551	3 + 000 BS	1082.829	1082.814
	3 + 130 BS	1081.545	1081.526
495	3 + 240 BS	1065.447	1065.450
498	3 + 550 BS	1057.803	1057.804

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FARO DEFORMATION SURVEY

CROSS VALLEY DAM

UEL STN	STATION DESCRIPTION	OCT./86 ELEVATION	OCT./88 ELEVATION
502	0 + 204	1065.752	1065.743
	SP "A"	1067.216	1067.213
415	0 + 338 CVDC	1065.933	1065.922
416	0 + 460 CVDC	1065.875	1065.873
	SP "C"	1066.510	1066.503
417	0 + 568 CVDC	1065.925	1065.923
	SP "D"	1067.111	1067.108
	0 + 570	1065.770	1065.763

FARO DEFORMATION SURVEY

SPOIL PILES

UEL	STATION	OCT./86	OCT./88
STN	DESCRIPTION	ELEVATION	ELEVATION
154	0 + 990 SP	1088.509	1088.387
157	1 + 530 SP	1092.862	1092.752
158	1 + 900 SP	1082.521	1082.412
408	2 + 040 SP	1083.318	Destroyed
418	2 + 950 SP	1079.231	1079.148

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REFERENCE STATIONS

Stn.	Oct/88 Elevation.
282	1117.095 /
284	1106.937 /
288	1091.624 /
289	1115.081 /
290	1099.733 /
291	1134.030 /
292	1114.900 /
609	1073.083 /
610	1088.188

Bench Mark

Stn 610 is an iron bar in rock face at NW corner of Quarry
 N = 1079.84
 E = -61.08