

Photo 1 East Adit Retention Pond.
Note ponding in northwest corner of area.

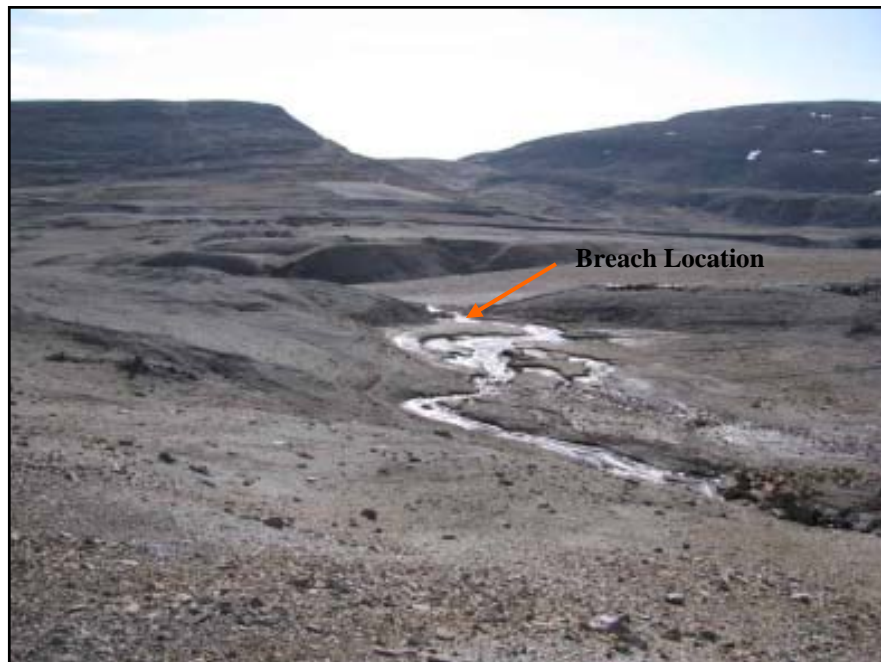


Photo 2 East Adit Treatment Pond.
Note channelization of remnant sediments upstream of breach.

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PROJECT:	NANISIVIK MINE 2008 ANNUAL GEOTECHNICAL INSPECTION		
TITLE:	EAST ADIT TREATMENT FACILITY		

CLIENT:



PROJECT No.:	DWG No.:	REV.:
0255-017-03	II-1	



Photo 3 Industrial Complex as seen from Stol Port. Note location of former Day Tank Farm.

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PROJECT:	NANISIVIK MINE 2008 ANNUAL GEOTECHNICAL INSPECTION		
TITLE:	DAY TANK FARM AREA		

CLIENT:



PROJECT No.:	DWG No.:	REV.:
0255-017-03	II-2	



Photo 4 Inside of Main Tank Farm con-
tainment berm.
Note water retained in retention pond.



Photo 5 Exposures and tears of internal liner.



Photo 6 Affected area of Main Tank Farm berm which was partially
excavated during reclamation of contaminated soils.

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BREAKWATER
RESOURCES LTD

PROJECT:	NANISIVIK MINE 2008 ANNUAL GEOTECHNICAL INSPECTION		
TITLE:	MAIN TANK FARM SPILL CONTAINMENT BERM		

PROJECT No.:	DWG No.:	REV.:
0255-017-03	II-3	



Photo 7 Flow through entrance area of West Twin Dike Spillway.



Photo 9 Settlement depression near spillway outlet.



Photo 8 Flow through WT Dike Spillway as seen from bottom of access ramp.



Photo 10 Outlet end of West Twin Dike Spillway.


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						DATE:	JAN 2009		TITLE: <div>WEST TWIN DIKE SPILLWAY</div>								
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Photo 11 West Twin Outlet Wall. Note water level is approximately 3 cm below invert of wall.



Photo 13 West Twin Outlet Wall.



Photo 12 West Twin Outlet Wall. Note flow into Polishing Pond area was still impeded by culverts at time of photo.

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PROJECT: NANISIVIK MINE 2008 ANNUAL GEOTECHNICAL INSPECTION		
TITLE: WEST TWIN LAKE OUTLET CHANNEL		
PROJECT No.: 0255-017-03	DWG No.: II-5	REV.:



Photo 14 Flow through East Twin Creek Diversion Channel. View looking downstream.



Photo 15 Upstream portion of Twin Lakes Creek diversion.

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PROJECT:	NANISIVIK MINE 2008 ANNUAL GEOTECHNICAL INSPECTION		
TITLE:	EAST TWIN LAKE CREEK DIVERSION DIKE		

CLIENT:



PROJECT No.:	DWG No.:	REV.:
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Photo 16 Small pond of Surface Cell cover at entrance to West Twin Dike Spillway.



Photo 17 Surface of Surface Cell cover.

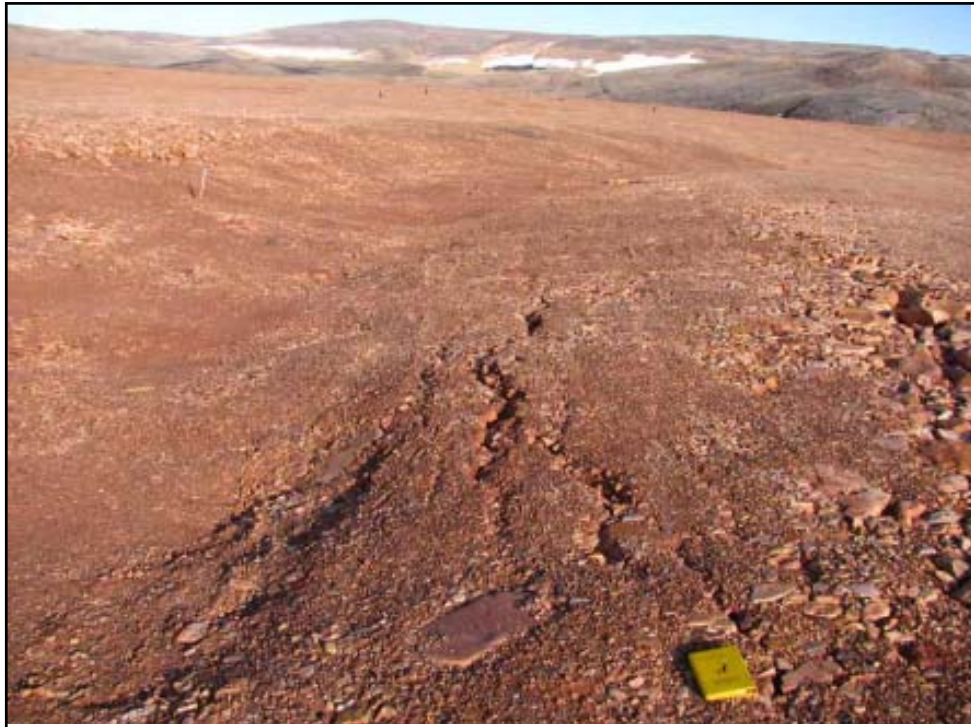


Photo 18 East/West drainage swale. Note minor cracking along edge of swale.



Photo 19 Drainage swale in west portion of Surface Cell cover.

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Photo 20 Face of West Twin Dike. View looking north.



Photo 21 Crest of West Twin Dike. View looking north.

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PROJECT:	NANISIVIK MINE 2008 ANNUAL GEOTECHNICAL INSPECTION		
TITLE:	WEST TWIN DIKE		

CLIENT:



PROJECT No.:	DWG No.:	REV.:
0255-017-03	II-8	



Photo 22 Surface of Test Cell cover.



Photo 23 Rip rapped Test Cell outlet. Note riprap only applied to edge of water.



Photo 24 Test Cell cover as seen from rock outcrop near the south abutment of the dike.



Photo 25 Center of the Test Cell cover looking towards the West Twin Dike.

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Photo 26 Soft area on the crest of the North/South area of the Test Cell Dike.

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TITLE:	TEST CELL DIKE		

CLIENT:



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0255-017-03	II-10	



Photo 27 Riprap along toe of North/South arm of Test Cell Dike.



Photo 28 Riprap along toe of East/West arm of Test Cell Dike.

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TITLE:	TOE OF TEST CELL DIKE		

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0255-017-03	II-11	



Photo 29 West Twin Dike as seen from the Twin Lakes Delta.



Photo 31 Riprap stockpiled along shoreline of tailings cover at the toe of the West Twin Dike.



Photo 30 Toe of West Twin Dike tailings cover as seen from rock outcrop at south abutment of West Twin Dike.



Photo 32 Riprap along shoreline of Toe of West Twin Dike tailings cover.

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							DATE:		JAN 2009									TITLE: TOE OF WEST TWIN DIKE TAILINGS COVER				
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Photo 33 Toe of Landfill cover. Note exposed shale at toe of cover.



Photo 35 Landfill cover as seen from Stol Port.



Photo 34 Surface of Landfill cover.



Photo 36 Seepage water monitoring station at toe of the landfill cover.
Note no water is running here.

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CLIENT:

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RESOURCES LTD

PROJECT:
NANISIVIK MINE
2008 ANNUAL GEOTECHNICAL INSPECTION

TITLE:
LANDFILL COVER

PROJECT No.:
0255-017-03

DWG No.:
II-13

REV.:



Photo 37 Photo taken September 2008. West Open Pit waste rock cover as seen from Stol Port. Note that the road has been armoured over.



Photo 39 Surface of West Open Pit cover looking east.



Photo 38 Crack in the West Open Pit crown pillar. Similar condition to what was observed in 2007.



Photo 40 Photo taken in September 2008. Construction photo of the spreading of armour rock over the exposed shale in the road across the toe of the West Open Pit cover.

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						DATE:	JAN 2009		DRAWN:			ADW		TITLE:			WEST OPEN PIT WASTE ROCK COVER				
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Photo 41 Surface of East Open Pit cover.



Photo 43 Surface of the East Open Pit cover. Note that minor erosion of exposed shale near the edge of the cover was noted.



Photo 42 Base of the remnant East Open Pit highwall, some loose rock was noted.



Photo 44 Surface of East Open Pit cover.

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Photo 45 East Trench cover as seen from the upslope area.



Photo 46 Very minor rill erosion attributed to constant seepage on surface of East Trench cover. Similar to what was observed in 2007.

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TITLE:	EAST TRENCH WASTE ROCK COVER		

CLIENT:



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0255-017-03	II-16	



Photo 47 Oceanview Open Pit cover as seen from south edge of the cover. View looking north.



Photo 48 Back of the Oceanview Pit looking west.



Photo 49 Minor rill erosion in southwest corner of Oceanview Open Pit cover. Note self armouring occurring. Erosion does not appear to have progressed since 2007.



Photo 50 Rockfill placed against the toe of the Oceanview Open Pit cover.

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						DATE: JAN 2009						TITLE: OCEANVIEW OPEN PIT WASTE ROCK COVER		
						DRAWN: ADW								
						DESIGNED: GKC								
						CHECKED: GKC								
						APPROVED: GKC		CLIENT: <div><div>BREAKWATER</div><div>RESOURCES LTD</div></div>			PROJECT No.: 0255-017-03		DWG No.: II-17	REV.:
REV.	DATE	REVISION NOTES				DRAWN	CHECK	APPR.						




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							DATE: JAN 2009				TITLE: AREA 14 WASTE ROCK COVER					
							DRAWN: ADW				PROJECT No.: 0255-017-03					
							DESIGNED: GKC				DWG No.: II-18		REV.:			
							CHECKED: GKC									
							APPROVED: GKC									
REV.	DATE	REVISION NOTES				DRAWN	CHECK	APPR.								



Photo 55 Toe of the Upper Dump Pond cover.



Photo 56 Surface of Upper Dump Pond tailings cover. Note frost gauge FG17 on surface of cover.

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PROJECT:	NANISIVIK MINE 2008 ANNUAL GEOTECHNICAL INSPECTION		
TITLE:	UPPER DUMP POND TAILINGS COVER		

CLIENT:



PROJECT No.:	0255-017-03	II-19	REV.:
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Photo 57 Surface of the 17N Portal Cover as seen from upslope vantage point.



Photo 58 Thermokarst feature in 17N Portal Cover.

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PROJECT:	NANISIVIK MINE 2008 ANNUAL GEOTECHNICAL INSPECTION		
TITLE:	17 NORTH PORTAL COVER		

CLIENT:



PROJECT No.:	0255-017-03	II-20	REV.:
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Photo 59 Settlement depression at the southwest corner of the Oceanview Portal cover. Note that the depression does not appear to have progressed since 2007.



Photo 61 Water deflection berm at the Oceanview Portal cover.



Photo 60 Oceanview Portal cover as seen from the upslope edge of the cover. Note minor cracking along the right (east) edge of the cover.



Photo 62 Toe of the Oceanview Portal cover.

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						DATE: JAN 2009				TITLE: OCEANVIEW PORTAL COVER				
						DRAWN: ADW								
						DESIGNED: GKC								
						CHECKED: GKC								
						APPROVED: GKC		CLIENT: <div><div>BREAKWATER</div><div>RESOURCES LTD</div></div>			PROJECT No.: 0255-017-03		DWG No.: II-21	REV.:
REV.	DATE	REVISION NOTES				DRAWN	CHECK	APPR.						



Photo 63 Surface of inclined face of K-Baseline Portal Cover.



Photo 64 Surface of upper flatter portion of K-Baseline Portal Cover.

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PROJECT:	NANISIVIK MINE 2008 ANNUAL GEOTECHNICAL INSPECTION		
TITLE:	K-BASELINE PORTAL COVER		

CLIENT:



PROJECT No.:	DWG No.:	REV.:
0255-017-03	II-22	



Photo 65 Armoured Surface Area 14 Portal plug.

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TITLE:	AREA 14 PORTAL COVER		

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BREAKWATER
RESOURCES LTD

PROJECT No.:	DWG No.:	REV.:
0255-017-03	II-23	



Photo 66 Shale Hill Raise cover.



Photo 67 Oceanview East Raise cover.



Photo 68 Oceanview West Raise cover.



Photo 69 Area 14 Raise Cover. Note armour material applied to surface but no mound constructed.

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						DATE: JAN 2009				TITLE: MINE RAISE COVERS		
						DRAWN: ADW				PROJECT No.: 0255-017-03		
						DESIGNED: GKC				DWG No.: II-24		REV.:
						CHECKED: GKC						
REV.	DATE	REVISION NOTES				DRAWN	CHECK	APPR.	APPROVED: GKC		BREAKWATER RESOURCES LTD	



Photo 70 Mt. Fuji shale borrow area. Note that slopes are falling and are naturally reclaiming to the angle of repose.



Photo 71 Base of the Townsite shale borrow area.



Photo 72 Shale Hill shale borrow area.



Photo 73 Mt. Fuji shale borrow area as seen from Cross Mountain.

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						DATE:		JAN 2009			TITLE: SHALE BURROW AREAS					
						DRAWN:		ADW			PROJECT No.:					
						DESIGNED:		GKC			DWG No.:		REV.:			
						CHECKED:		GKC			0255-017-03		II-25			
						APPROVED:		GKC			BREAKWATER RESOURCES LTD					
REV.	DATE	REVISION NOTES				DRAWN	CHECK	APPR.								



Photo 71 Minor thermokarsting at Area 14 armour borrow area. Note that it does not appear to have progressed since 2007.



Photo 76 Floor of Twin Lakes armour borrow area.



Photo 75 Chris Creek A armour borrow area. Note the minor thermokarsting that is occurring in the surface.

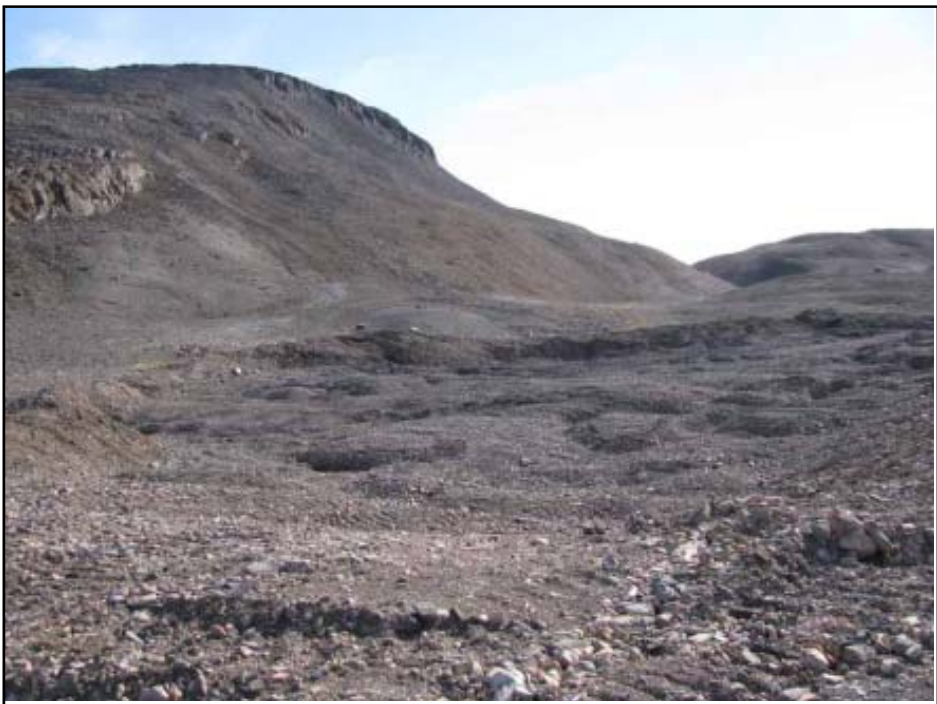


Photo 77 Kuhulu Lake Road armour material borrow area.

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						TITLE: ARMOUR BURROW AREAS						
						PROJECT No.: 0255-017-03	DWG No.: II-26			REV.:		
REV.	DATE	REVISION NOTES				DRAWN	CHECK	APPR.	CLIENT: <div><div>BREAKWATER</div><div>RESOURCES LTD</div></div>			



Photo 78 Industrial Complex cover as seen from Stol Port. Note that this cover was completed over metals contaminated soil and the original foundation during the summer of 2008.



Photo 80 Northeast slope of the Industrial Complex cover.



Photo 79 Surface of the Industrial Complex cover.



Photo 81 Mill foundation plug. Note no armour material had been applied to the face of the plug at the time of the photo.

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						DATE:		JAN 2009		TITLE: INDUSTRIAL COMPLEX																					
						DRAWN:		ADW																							
						DESIGNED:		GKC																							
						CHECKED:		GKC																							
						APPROVED:		GKC																							
REV.						DATE		REVISION NOTES				DRAWN		CHECK		APPR.		CLIENT: <div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div> <div>BREAKWATER RESOURCES LTD</div>				PROJECT No.:		0255-017-03		DWG No.:		II-27		REV.:	



Photo 82 Surface of Concentrate Storage Shed surficial cover. View looking south.



Photo 83 Concentrate Storage Shed surficial cover. View looking west.

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PROJECT:
NANISIVIK MINE
2008 ANNUAL GEOTECHNICAL INSPECTION

TITLE:
CONCENTRATE STORAGE SHED SURFICIAL COVER

CLIENT:



PROJECT No.:	0255-017-03	II-28	REV.:
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