Rio Algom Mining Corp.

June 13, 1994

Certified Mail Return Receipt Requested Z 147 271 307

Mr. Joe Holonich, Branch Chief Uranium Recovery Branch Division of Low-Level Waste Management and Decommissioning, NMSS (5 E2) Nuclear Regulatory Commission 11555 Rockville Pike Rockville, MD 20850

Re: Lisbon Facility

License SUA-1119, Docket No. 40-8084

Tailings Technical Evaluation

Dear Mr. Holonich:

Enclosed pursuant to license condition #44 (E), is the annual technical evaluation for Lisbon's upper and lower tailings impoundment and the Bisco Lake embankment. The findings indicate continued stability and safety of the impoundments.

If you have any questions or need further information in this regards, please call at (405) 842-1773.

Sincerely,

Bill Ferdinand, Manager

Radiation Safety, Licensing &

Regulatory Compliance

Attachments: as stated

xc: F. Fossey/T. Warner

M. Freeman

NRC - Division of Radiation Safety and Safeguards (Arlington)

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6305 Waterford Boulevard, Suite 325, Oklahoma City, Oklahoma 73118 • (405) 848-1190 • FAX (405) 848-1208

Cert# 2147271307



EarthFax
Engineering Inc.
Engineers/Scientists
7324 So. Union Park Ave.
Suite 100
Midvale. Utah 84047
Telephone 801-561-1555
Fax 801-561-1861

May 26, 1994

Mr. Frank G. Fossey Rio Algom Mining Corp. LaSal Route Moab, Utah 84532

Subject:

Bisco Lake Dam Inspection

Upper Tailings Dam Inspection

Lower Tailings Dam Inspection

Dear Frank:

On May 2, 1994, I made a visual inspection of the Subject dams and structures at the Lisbon facility. Enclosed are the reports of my inspections (three copies of each report are enclosed). I also reviewed and evaluated the inspection program for Rio Algom Mining Corp.'s Lisbon Facility.

Areas included in the inspection, review and evaluation, are evaporation cell freeboard records, piezometer records, inspection reports, summary of construction activities, and the results of my physical inspection and evaluation of the structures at the Lisbon facility.

Evaporation Cells

A review of weekly freeboard data for the upper tailings evaporation cell during the period March 1, 1993 through April 30, 1994 were found to be complete and in order. The maximum water surface elevation during the period was 6693.61 feet (MSL).

A review of the weekly freeboard data for the new lower tailings evaporation cell, since construction, through April 30, 1994, were found to be complete and in order. The maximum water surface elevation during the period was 6648.04 feet (MSL).

Piezometers

The piezometers for the Upper Tailings Dam, U3 and U4, were sampled quarterly and found to be dry during each sampling event. Review of past results indicate piezometers U3 and U4 have been historically dry. The review documented each had been performance tested as part of the annual check to ensure proper functioning. Both piezometers were found to be functioning properly.

Piezometers #1 and #2 for the Lower Tailings Dam were tested during all quarters. Results for all quarters for piezometers #1 and #2 showed the wells continue to be dry.

Inspection Reports

A review of the required documentation regarding the weekly freeboard checks on the upper tailings evaporation cell and on the lower tailings evaporation cell was performed, and it was found the inspections had been conducted as required by NRC. All necessary information had been recorded and graphed. All weekly inspections indicated acceptable freeboard.

On a monthly basis, each evaporation cell is inspected for erosion formed gullies on the outslope, wave form notches and benches on the inslope, signs of structural stress, seepage, ruts in the crest and rodent activity. The inspection reports performed by the Rio Algom staff were complete and found to be acceptable. Some wave erosion has occurred on the inside slopes at both the upper and lower evaporation cell berms. The erosion has not yet progressed to a point where any berm is unstable. It is my understanding that Rio Algom plans to repair the eroded areas.

The monthly embankment inspection reports for the Upper Tailings Impoundment, Lower Tailings impoundment, and Bisco Lake berm were reviewed and also found to be complete. The inspections examined; the downstream face of the abutments, embankment slopes and toes, embankment structure contacts, downstream areas for evidence of existing or past seepage, protective cover and rodent activity. Other than minor rills which present no risk to embankment stability, no significant areas of concerns were noted. Additionally, records indicate Bisco Lake had remained dry throughout the reporting period with the exception of minor precipitational run-on water.

Also reviewed were the quarterly inspections and documentation conducted by the Rio Algom staff. The quarterly inspection reports are a repetitive examination of all monthly reports on the structures to ensure timely actions are implemented on those areas needing corrective action. A review of the quarterly inspections documented they were complete with no areas requiring corrective actions.

Finally, the review of the quarterly inspections for the diversion channel from the Lower Tailings impoundment and the main diversion channel were examined and found to be complete and in order. The inspection includes channel bank erosion, bed aggradation or degradation and siltation, undesirable vegetation obstructions, and any unusual or inadequate operational behavior. No significant items of concerns were noted.

During the review period, March 1993 through April 1994, three items of construction were accomplished. An evaporation cell was built over a portion of the lower tailings pond and part of the berm is presently being widened on the evaporation cell on the upper tailings. Also, a portion of the outslope on the lower tailings dam was modified from a 3H:1V slope to a 5H:1V slope.

Observation of the evaporation cell on the lower tailings, and review of the 11-15-93 construction report submitted by Rio Algom to the U.S. Nuclear Regulatory Commission indicates that this construction meets standards. I understand Rio Algom plans to repair some wave erosion that has occurred on the inside face of the berm.

The widening of part of the berm on the evaporation pond on the upper tailing appears to be following good engineering practice. Again, I understand Rio Algom plans to repair some wave erosion that has occurred on the inside face of the berm.

It is my understanding that the work on the outslope of the lower tailings dam followed good engineering practice, and that the quality of construction, materials ued, and testing accomplished, was similar to that used while building the evaporation cell over part of the lower tailings.

Physical Inspection and Evaluation of Facility Structures

Please refer to the attached dam inspection reports for results of my physical inspection and evaluation of the facility structures.

Let me know if I can be of further help to you.

Respectfully yours,

Kenna T. 15lbb

Kenneth T. Klebba

Civil Engineer

Enclosures



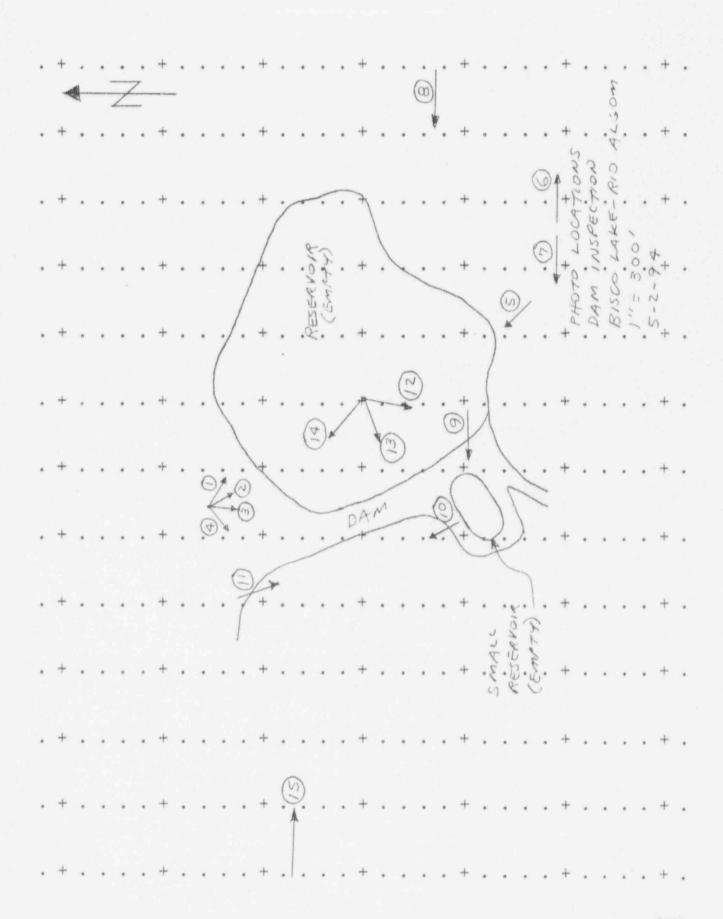
DAM NAME: BISCO LAKE	- RIO ALGOM		
HAZARD RATING: LOW C	COUNTY: SAN JUAN	FOREST:E	BLM
INSPECTOR'S SIGNATURE: Ken	mit 7. Klebba	DATE:	5-2-94
Government personnel at Insp	pection: NONE		
Owner's Representative at In	spection: FRANK	FOSSEY	
Storage Level at Time of Ins	spection: No WA7	ER IN RE	SERVOIR
Outflow: Outlet: NONE	Spillway	NONE	
Weather: CLEAR, 40°F			
Applicable	No Minor Problem Problem	Needs Repair	
	DESIGN AVAILABLE	Ŧ	
Meets Design [] Settling [] Slumps/Sloughing [] Cracking [] Erosion [] Seepage [] Drains [] Riprap [] Vegetation [] Rodents [] Debris []			
Comments and Photographs: $\underline{\mathcal{SE}}$	E PAGE 5/13 POR	PHOTO Le	CATIONS
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ABUTMENTS AND FOUNDATION	Not Applicable	No Problem	Minor Problem	Needs Repair	Critical
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Meets Design * Freeboard * Control Operat Leekage	[] [] ion []			[]	
From Spillway Into Spillway Erosion Siltation Debris Vegetation Outfall Channe					
Concrete Struct Settlement Cracks & Spal Waterstops Undercutting Weep Holes/Dr	ls [/] [/]				
Comments and Pho	tographs: 56	F PG, 5	/13 FOR	PHOTO LE	CATIONS

RESERVOIR BASIN	Not Applicable				Critical
Fractures Sinkholes Sedimentation Debris Vegetation Shore Stabilit Storage Gage	EY []				
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OUTLET	Applicable	No Problem			Critical
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Intake Siltation Debris Trash Rack				[]	
Conduit Displacement Deterioration Joints Blockage Leakage Camber					
Downstream Char Pooling Backcutting Erosion Vegetation Debris	innel				
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SKETCH - Indicate North, downstream, seeps, leaks, sinkholes etc.







BISCO LAKE - DAM INSPECTION PHOTOS
RIO ALGOM
5-2-94







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BISCO LAKE - DAM INSPECTION PHOTOS
RIO ALGOM
5-2-94



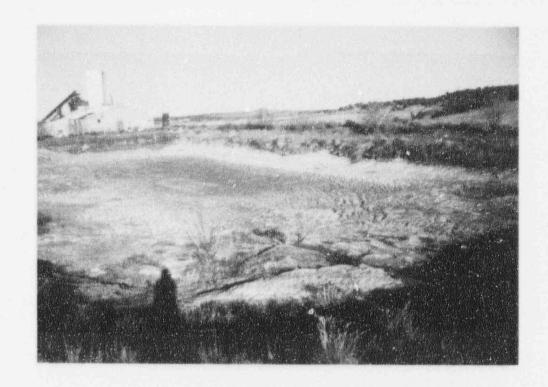


BISCO LAKE - DAM INSPECTION PHOTOS
RIO ALGOM
5-2-94





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BISCO LAKE - DAM INSPECTION PHOTOS
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BISCO LAKE - DAM INSPECTION PHOTOS
RIO ALGOM
5-2-94



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BISCO LAKE - DAM INSPECTION PHOTOS
RIO ALGOM
5-2-94

EARTHFAX ENGINEERING, INC.

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INSPECTOR'S SIGNA	ATURE: Ken	ne T. J.	Slebba	DATE:	5-2-94
Government person	nnel at Insp	ection: ^	IONE		
Owner's Represent	tative at In	spection:	FRANK	FOSSEY	
Storage Level at Outflow: Outlet			OLINGS IN ON THE PROPERTY OF THE PORT TO T		PE COVERED TO PETHE N CELL APPA SOIL CAP
Weather: CLEAR	45° F. L	16HT 1	IW BREE	ZE	
EMBANKMENT	Not Applicable			Needs Repair	Critical
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Slumps/Sloughi Cracking Erosion Seepage Drains Riprap Vegetation Rodents	tographs: SE	EF PAGE OCCURRENCE CELL BERNOW THE	O ON THE	PHOTO I JUSIPE GOM 15 AND 17	KENNETH TE KLEBBA [T] MG STATE OF UT

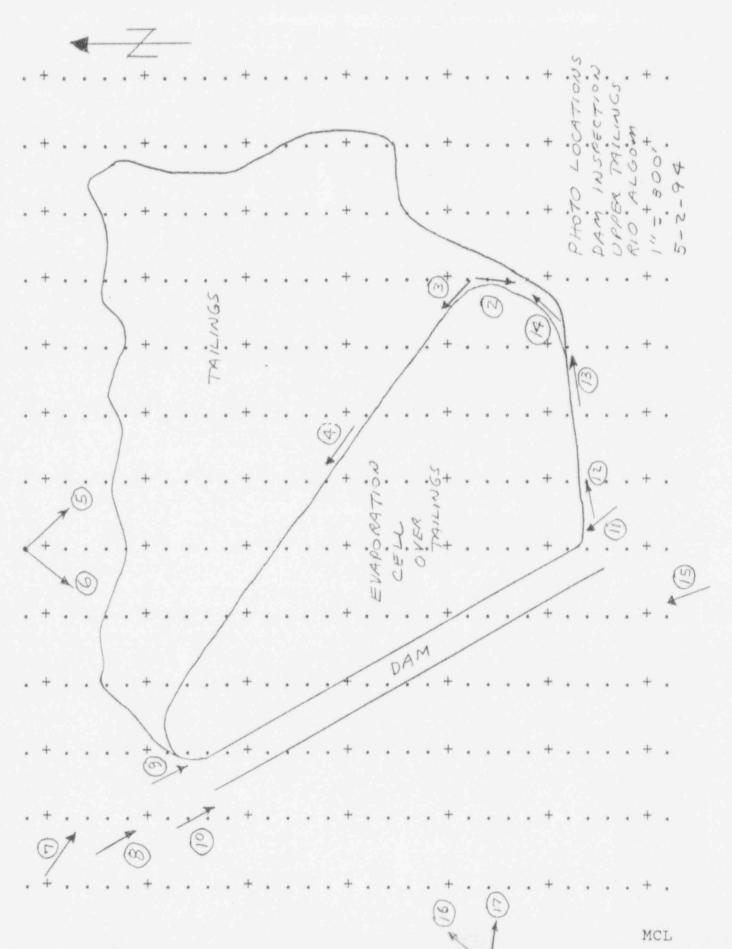
ABUTMENTS AND FOUNDATION	Not Applicable	No Problem	Minor Problem	Needs Repair	Critical
Settling Cracking Slumps Bulging Seepage Ponding Sinkholes Erosion Vegetation					
Comments and Pho	tographs:_S	SEE PAGE	5/14 F	OR PHOTO	2
SPILLWAY	Not Applicable	No Problem	Minor Problem	Needs Repair	Critical
Meets Design Freeboard Control Operat Leekage	[] [] :ion []				
From Spillway Into Spillway Erosion Siltation Debris Vegetation Outfall Channe		77777			
Concrete Struct Settlement Cracks & Spal Waterstops Undercutting Weep Holes/Dr	[v] [v] [v]				
Comments and Pho	tographs: S	EE PG.	5/14 FOR	P/+070	

RESERVOIR BASIN	Not Applicable	No Problem	Minor Problem	Needs Repair	Critical
Fractures Sinkholes Sedimentation Debris Vegetation Shore Stability Storage Gage					
Comments and Phot	cographs:_S	EE PAGE	.5/14 Fe	OR PHO	70
OUTLET	Not Applicable	No Problem	Minor Problem	Needs Repair	Critical
Meets Design Controls	[4]	[]	[]	[]	[]
Access w/ Spil Operation Measuring Devi	[~]				
Intake Siltation Debris Trash Rack Conduit					
Displacement Deterioration Joints Blockage Leakage Camber Downstream Char					
Pooling Backcutting Erosion Vegetation Debris	[2] [2] [3] [3]				
Comments and Phot	tographs: 5	EE PG, 5	/14 FOR	PHOTO	

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PAGE 5/14-

SKETCH - Indicate North, downstream, seeps, leaks, sinkholes etc.







UPPER TAILINGS - DAM INSPECTION PHOTOS
RIO ALGOM
5-2-94





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RIO ALGOM
5-2-94



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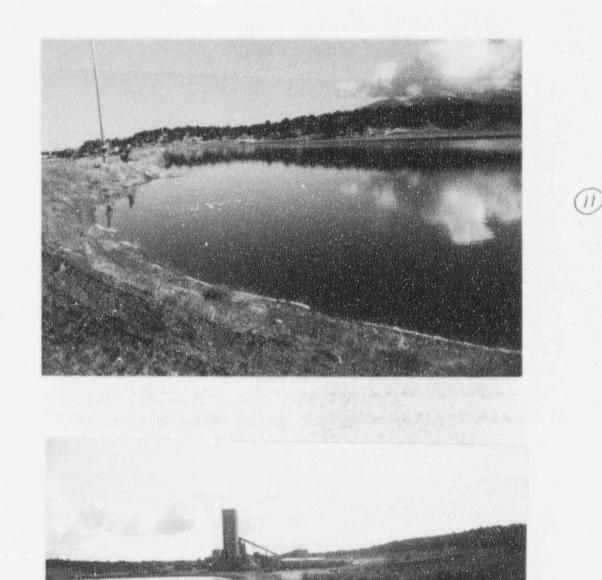


UPPER TAILINGS - DAM INSPECTION PHOTOS
RIO ALGOM
5-2-94

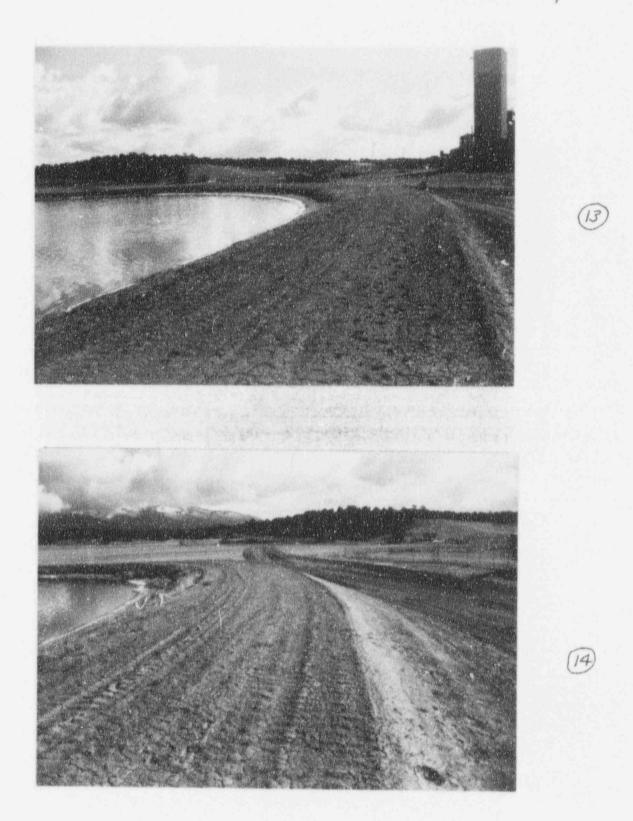




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RIO ALGOM
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UPPER TAILINGS - DAM INSPECTION PHOTOS
RIO ALGOM
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UPPER TAILINGS - DAM INSPECTION PHOTOS
RIO ALGOM
5-2-94



UPPER TAILINGS - DAM INSPECTION PHOTOS
RIO ALGOM
5-2-94

EARTHFAX ENGINEERING, INC.

HAZARD RATING: LOW COUNTY: SAN JUAN FOREST: ELM INSPECTOR'S SIGNATURE: Kenned T. TSUMB DATE: 5-2-94 Government personnel at Inspection: NONE Cwner's Representative at Inspection: FRANK FOSSEY Storage Level at Time of Inspection: Area and sold for the follow: Outlet: NONE Storage Level at Time of Inspection: Area and sold for the follow: Outlet: NONE Spillway: NONE Weather: CLEAA 55°F, LIGHT NW BREEZE Note: A [No] in the Not Applicable column means not observed due to current field conditions. EMBANKMENT Not No Minor Needs Critical Applicable Problem Problem Repair Meets Design Settling Sumps/Sloughing [] [] [] [] [] [] [] [] [] [] [] [] []	DAM NAME: LOWER MILINGS - NO ALGOM
Government personnel at Inspection: NONE Owner's Representative at Inspection: FRANK FOSSEY TRAILINGS IN RESERVOIR ARE COVERAGE Storage Level at Time of Inspection: AREA HAS AN ENARTHOR THE AREA HAS AN ENARTHOR CELL APPROX. 3' DEEP ON TO OF THE SOIL CAR Outflow: Outlet: NONE Spillway: NONE Spillway: NONE Weather: CL6AA 55°F, LIGHT NW BREEZE Note: A [No] in the Not Applicable column means not observed due to current field conditions. EMBANKMENT Not Not No Minor Needs Critical Applicable Problem Problem Repair Meets Design Stumps/Sloughing [] [/] [] [] [] [] [] [] [] [] [] [] [] [] []	HAZARD RATING: LOW COUNTY: SAN JUAN FOREST: BLM
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Settling Slumps/Sloughing Slumps/Sloughing Cracking Erosion Seepage Drains Figure Seepage Slow Slow Seepage S	due to current field conditions. EMBANKMENT Not No Minor Needs Critical
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ABUTMENTS AND FOUNDATION	Not Applicable	No Problem	Minor Problem	Needs Repair	Critical
Settling Cracking Slumps Bulging Seepage Ponding Sinkholes Erosion Vegetation		252525252			
Comments and Pho	otographs: 5	EE PG.	5/18 FOR	PHOTO	25
SPILLWAY	Not Applicable	No Problem	Minor Problem	Needs Repair	Critical
Meets Design Freeboard Control Operat Leekage	[] []	[7]			
From Spillway Into Spillway Erosion Siltation Debris Vegetation Outfall Channe Concrete Struc	([] [] [] []	7777777			
Settlement Cracks & Spal Waterstops Undercutting Weep Holes/Di	[[] [[]] [] [] [] [] [] [] [
Comments and Pho	otographs: S	EE PG.	5/18 FOR	PHOTO	

RESERVOIR BASIN App	Not licable	No Problem	Minor Problem	Needs Repair	Critical
Fractures Sinkholes Sedimentation Debris Vegetation Shore Stability Storage Gage		222222			
Comments and Photog	raphs: 5	EE PAGE	5/18 F	FOR PHOT	
OUTLET	Not licable	No Problem	Minor Problem	Needs Repair	Critical
Meets Design Controls	[1]	[]	[]	[]	[]
Access w/ Spill Operation Measuring Device Intake	555	() () ()	[]		
Siltation Debris Trash Rack Conduit	555	[]	[]	[]	
Displacement Deterioration Joints Blockage Leakage Camber Downstream Channe	555555				
Pooling Backcutting Erosion Vegetation Debris	22222				
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TO THAT USED WHILE BUILDING THE EVAPORATION CELL

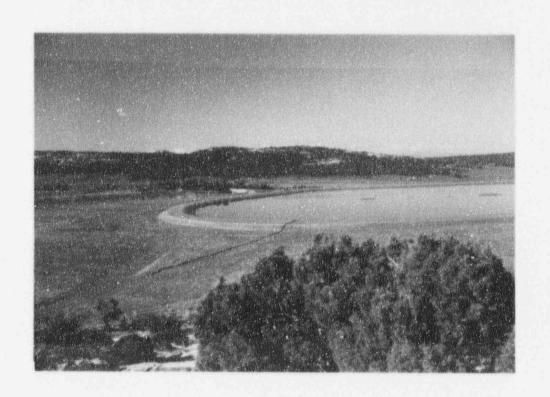
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STRUCTURALLY UNSTABLE.

DAM NAME: LOWER TAILINGS - RIO ALGOM PAGE 5/18 SKETCH - Indicate North, downstream, seeps, leaks, sinkholes etc. noon

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LOWER TAILINGS - DAM INSPECTION PHOTOS
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4)

LOWER TAILINGS - DAM INSPECTION PHOTOS
RIO ALGOM
5-2-94







6)

LOWER TAILINGS - DAM INSPECTION PHOTOS
RIO ALGOM
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LOWER TAILINGS - DAM INSPECTION PHOTOS
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LOWER TAILINGS - DAM INSPECTION PHOTOS
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LOWER TAILINGS - DAM INSPECTION PHOTOS
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LOWER TAILINGS - DAM INSPECTION PHOTOS
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LOWER TAILINGS - DAM INSPECTION PHOTOS
FIO ALGOM
5-2-94



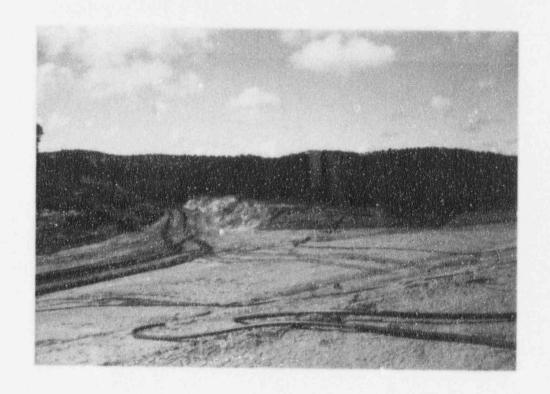




LOWER TRILINGS - DAM INSPECTION PHOTOS
RIO ALGOM
5-2-94







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LOWER TAILINGS - DAM INSPECTION PHOTOS
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LOWER TAILINGS - DAM INSPECTION PHOTOS
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LOWER TAILINGS - DAM INSPECTION PHOTOS
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