



# PATHFINDER

September 21, 2005

Mr. Gary Janosko, Branch Chief  
Fuel Cycle Facilities Branch  
Division of Fuel Cycle Safety and Safeguards  
Office of Nuclear Material Safety and Safeguards  
U. S. Nuclear Regulatory Commission  
11545 Rockville Pike  
Rockville, Maryland 20852

Ref: Docket No. 40-2259, Source Material License No. SUA-672

Dear Mr. Janosko:

Enclosed please find a copy of the laboratory report for the re-analysis of the second quarter, 2005 sample from POC well T1-12 for Ra226 and Ra228. The ground water monitoring report submitted on August 19, 2005 reported the initial combined Ra226+228 level as 14.2 pCi/l, exceeding the site standard of 7.5 pCi/l. The enclosed revision reports a combined Ra226+228 level of 6.0 pCi/l.

Sincerely,

T. W. Hardgrove  
Manager, Reclamation Operations

Enclosure

Cc: J. Whitten, USNRC Region IV  
D. L. Wichers  
Hydro-Engineering, LLC

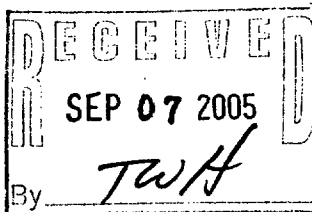


## LABORATORY ANALYTICAL REPORT

Client: Pathfinder Mines Corp  
Project: Lucky Mc Mine  
Lab ID: C05070637-007  
Client Sample ID: TI-12

Report Date: 09/02/05  
Collection Date: 06/29/05 09:30  
Date Received: 07/15/05  
Matrix: Aqueous

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	203	mg/L		1		A4500-Cl B	07/18/05 12:00 / sl
Nitrogen, Nitrate+Nitrite as N	259	mg/L	D	2		E353.2	07/19/05 11:24 / jal
Sulfate	2290	mg/L	D	30		A4500-SO4 E	07/20/05 12:29 / jal
PHYSICAL PROPERTIES							
Solids, Total Dissolved TDS @ 180 C	6600	mg/L	H	10		A2540 C	07/19/05 15:14 / th
METALS - DISSOLVED							
Arsenic	0.010	mg/L	D	0.004		E200.8	07/19/05 19:29 / bws
Beryllium	ND	mg/L		0.01		E200.8	07/19/05 19:29 / bws
Cadmium	ND	mg/L		0.01		E200.8	07/19/05 19:29 / bws
Chromium	ND	mg/L		0.05		E200.8	07/19/05 19:29 / bws
Nickel	0.31	mg/L		0.05		E200.8	07/19/05 19:29 / bws
Selenium	0.54	mg/L	D	0.01		E200.8	07/19/05 19:29 / bws
Uranium	0.356	mg/L	D	0.0009		E200.8	07/19/05 19:29 / bws
RADIONUCLIDES - DISSOLVED							
Radium 226	4.9	pCi/L		0.2		E903.0	08/19/05 13:35 / df
Radium 226 precision (±)	1.1	pCi/L				E903.0	08/19/05 13:35 / df
Radium 228	1.1	pCi/L		1.0		E904.0	08/19/05 13:35 / pj
Radium 228 precision (±)	2.1	pCi/L				E904.0	08/19/05 13:35 / pj
Thorium 230	ND	pCi/L		0.2		E907.0	07/28/05 10:30 / ph



**Report** RL - Analyte reporting limit.  
**Definitions:** QCL - Quality control limit.  
D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.  
ND - Not detected at the reporting limit.  
H - Analysis performed past recommended holding time.