

SINKING POND  
ASSESSMENT REPORT

**Ground Verification and  
Exploration Program  
Of the  
Sinking Pond Tenure**  
(Mineral Tenure #508926)

**Event #412732**

Osoyoos Mining Division  
NTS 082E/04  
UTM Zone 11 (NAD 83)  
Northing: 5452638  
Easting: 311381

For  
**Aldershot Resources Ltd**  
600 – 666 Burrard Street  
Vancouver, BC  
V6C 2X8

Re: Minfile **082ESW174**

By

Auracle Geospatial Science Inc.

January 2007

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## **EXECUTIVE SUMMARY**

Auracle Geospatial Science Inc. was asked by Aldershot Resources Ltd. to carry out a ground verification reconnaissance and exploration work program on its several of its mineral tenures in British Columbia. These are primarily uranium prospects staked for their Uranium potential. In the preceding year spectral analysis was undertaken by the author on these tenures, together with an ongoing program of geoscience data compilation and image fusion.

Geologically the West Okanagan area is underlain primarily by a granitic intrusive rock complex which has been overlain by a volcanic-sediment package of rocks. The volcanic sediment package has been eroded off over much of the claim area. Uranium mineralization of this area is predominantly hosted in young sedimentary bog-like basins. In the case of the Farleigh Lake and Brent Lake showings there is also reported to be the possibility of basal type uranium occurrence, and this became a matter of further exploration. Earlier Spectral analyses also needed ground based exploration in areas where spectral geology did not agree with current mapped geology.

Gamma ray spectrometry at Farleigh Lake does confirm previous findings and total counts per second exceed previous report. Recent data ranges as high as 7875cps (counts per second) and surface ROI assay mode values for Uranium up to 54 ppm with Thorium at 74.3ppm this seems to represent an anomaly. A high resolution ground based spectral and gamma ray spectrometry survey is recommended to develop drill target vectors. It is also believed that there may still be undisclosed company reports that may lead more directly to drill targets in this area.

The Aldershot Resources Ltd BC Uranium Project's Sinking Pond established prospect is comprised of 2 established surficial type uranium occurrences, namely The Sinking Pond and The Sinking pond Flats showings. The primary exploration target for this work was the location of these occurrences, their access and surrounding terrain. Samples were collected where possible and collocated by CDGPS, for later data integration. Results of the work do conclude that the 2 uranium mineral occurrences are the Minfile occurrences of record, and that a drill probe program to define and model these surficial occurrences is needed. Due to the discovery of basal type uranium mineralization at Farleigh and Brent Lakes, it is also important to explore for any pathfinder evidence that may lead to finding similar occurrences.

Auracle Geospatial Science Inc.  
January 2007

## **INTRODUCTION**

In 2005 Aldershot Resources asked RM Resource Management Ltd to undertake an interdisciplinary technical exploration work program involving the use of Spectral Analysis to see if any uranium mineralization or other geologic features associated with the localization of uranium mineralization could be identified on the Aldershot properties. While the Spectral Analysis of the Okanagan West group was inconclusive it did provide an increase in the overall data available and a strong basis from which to proceed and some question of the location and accuracy of the mapped surface of the area..

In 2006 Aldershot Resources Ltd. asked Auracle Geospatial Science Inc. to undertake a field exploration program in the West Okanagan region on their Sinking Pond tenure as a part of a BC Uranium exploration project. The purpose of the work is to better define the rock spectra of the area, and to correlate the Shortwave Infrared with existing and CDGPS spatial data in order to identify Uranium mineralization or its host geology and to explore for similar or basal type uranium mineralization.

## **LOCATION AND ACCESS (figures 1, 2, and3)**

The Sinking Pond tenure is in the southern Okanagan Valley of British Columbia 2.1 kilometres north of the old Fairview town site along the White Lake Road. White Lake road is located 1.7 kilometres west of the Town of Oliver via Fairview Road. The road crosses the tenure and the showings are located on the west side of the road.

## **PHYSIOGRAPHY**

This is a semi arid to arid region of the Okanagan Valley with elevations from 520 to 620 metres. The tenure consists of a wetland valley and there was no running water in late October.

Vegetation consists of sparse mixed grasses, sage and small pine.

## **MINERAL CLAIM STATUS**

The Sinking Pond tenure is was staked by Matthew Mason in January 2005 and subsequently optioned to Aldershot Resources Ltd. Aldershot has a 100% interest in these claims, subject to terms of an option agreement. Particulars and currency of this tenure are contained in the cover confirmation letter copy preceding the title page of this report.

## **PREVIOUS WORK**

Discovered by D.G. Leighton & Associates in 1979, the Surficial-type uranium occurrences of the Okanagan West area enjoyed only one year of attention prior to instatement of the 1980 provincial uranium exploration moratorium. Discovery of these uranium occurrences was a result of spin-off regional research generated by the uranium exploration activities east of Okanagan Lake in the mid 1970's. Many of these occurrences were discovered as late as 1979 just prior to the implementation of the B.C. uranium exploration moratorium. Due to reclamation of old exploration sites, new logging and regeneration of forests in the area most of the old explorations areas and drill hole collars are impossible to locate. Sampling of uranium bearing springs and alkaline lakes was the primary exploration methodology. During this brief period at least 16 significant Surficial style uranium showings were found, some of which are included in the tenures which are the subject of this assessment report. Exploration work included regional and detailed stream sediment and soil sampling along with auger and some drill sampling of bogs and basins where uranium concentrations had been located. In this particular area there is also further reference to basal style uranium (Farleigh and Brent Lake Minfiles 082ESW154 and 082ESW139) and history of some drilling. With the type of exploration work that was performed in this area (auger) there is no evidence of work found on the property.

This tenure contains two established areas of surface soils uranium enrichment as reported in Minfile #082ESW174. These two occurrences are known as Sinking Pond in the South and Sinking Pond Flats in the North. In 1979 D.G. Leighton drilled eleven auger holes into the sediments (Assessment report #7670). Based on the drilling the Sinking Pond Flats is historically described as containing a 250metre by 60 metre (15000 square metres) 3.7 metre thick layer of enrichment averaging 0.029 per cent uranium. This was estimated at the time and reported by the Province of British Columbia to contain approximately 13,500 kilograms of uranium.

The Southern part, the Sinking Pond uranium enrichment occurrence is 130 metres by 80 metres in area (10,400 square metres) with 6 metres of thickness and an average of 0.017 percent uranium. (Assessment report #7670). These calculations should however be viewed as estimates at this time. The depth of overburden in these cases is 2.3 metres over Sinking Pond Flats and 3 metres over Sinking Pond.

**REGIONAL GEOLOGY** (Figures 2 and 3) (partially copied from the authors preceding assessment report)

Surficial-type uranium deposits are described as “young uranium in unconventional deposits”, which occur in post glacial alkaline troughs, within associated lakes and bog sediments. They occur as concentrations of uranium formed by interaction between uranium laden carbonate-alkalic groundwater carrying leached labile uranium infiltrating from the surrounding rock and precipitating upon reaction with humic acid produced by decaying organics in the small bog basin environments. This process is believed to still be taking place. At the Prairie Flats deposit, which is the largest deposit located so far in the area, it is estimated that uranium has accumulated at a rate of about 23 kilograms a year since glacial retreat. Uranium concentration also appears to be associated with clays as well as concentration by evaporation in closed basins. The uranium mineralization generally exists as an enriched uraniferous layer often strongly associated with molybdenum. This uraniferous layer is typically near surface in unconsolidated material. Enrichment exists at average depths of between 1 and 7 metres and with actual mineralized thicknesses of up to 3 meters. The source of this uranium mineralization has not yet been clearly identified although it is believed to be coming from the surrounding igneous rocks. Most of the known mineralized showings reported in the area are in the vicinity of, or directly underlain by Okanagan Batholith granodiorites. Regionally the Okanagan Batholith rocks are anomalous in uranium.

In the vicinity of Farleigh and Brent Lakes, in addition to surficial occurrences, uranium mineralization described as basal style appears to be associated with some bedrock sources, primarily the Okanagan Batholithic complex of intrusive rocks with some outliers of Marron volcanics. Further to the west, uranium occurrences are reported to be associated with volcanic rocks of the Marron Formation and intrusive rocks of the Coryell Formation.

Grades of some mineralized showings located on a number of the Aldershot claims in the area are as noted in the table following. These are only a few of the samples reported. Sample grades range from trace to the highest values shown in this table.

<b>Showing</b>	<b>Sample Type</b>	<b>Grades</b>
Brent Flats/Swamp	Auger	0.040% U
Farleigh Lake	Drill Core	0.065% U
Star	Auger	500 ppm U
Eneas	Stream Sed Geochem	3.5 ppm U
Stinkhole	Auger	0.022% U
Bald	Auger	0.135% U
Agur Lake	Auger	0.152% U
Agur Lake	Soil Geochem	.05 ppm U
Clark	Grab	1.5% U
Powerline	Soil Geochem	10 ppm U

Some of the examples of other Surficial style deposits with estimated Historic mineral reserves, which are located in the same general area and which represent examples of the potential for this style of deposit are listed below. Some of these deposits are held by other claim owners and some are in areas that are not accessible due to staking restrictions.

<b>Deposit</b>	<b>Grade (avg.)</b>	<b>Resources (kg U)</b>
Prairie Flats	0.0334% U	178,000
Covert Basin	0.0180% U	23,000
North Wow Flat	0.0200% U	12,000
Sinking Pond	0.029%U	13,500

**LOCAL GEOLOGY AND MINERALIZED SHOWING DESCRIPTIONS** (Extracts taken from the authors preceding assessment report see also figure 4)

Most of the Uranium Mineralization located on the West Okanagan tenures is described as postglacial uranium concentrations in ponds and associated marsh sediments. The mineralization is typically classified as fresh water deposits resulting from the interaction between uranium-rich groundwater and unconsolidated material containing organics or clay. This is considered to be a closed cycle system of uranium complexing where topography and evaporation control ongoing concentration.

**FIELD WORK 2006**

Field work was carried out in the late fall (October 22<sup>nd</sup> to October 26th 2006) with 14 to 16 hour work days to take advantage of the seasonal temperatures. Work consisted locating and sampling the dry lake bed surface soils and taking CDGPS coordinates of their perimeters. PIMA Shortwave Infrared spectrometric data was collected from the surface soils. Traverses of the area were also made to explore for outcrop and other indications of mineralization (see figure4)

**EQUIPMENT and INSTRUMENTATION**

- 1 PIMAI Shortwave Infrared Spectrometer
- 1 Toshiba Field computer
- 1 ePING CDGPS
- 1 Unimog 4X4

Shortwave Infrared Spectrometry was conducted using a PIMAI semi-portable spectrometer, and spatial control was established with an e-ping CDGPS receiver.

**DATA**

- SWIR data saved as proprietary .fos files
- CDGPS data saved as NMEA files

Where it has been converted, all supplied data with this report is provided as both raw and metadata appended conversion, in MS Access, ESRI, IDRISI, ENVI formats.

#### **DATA COLLECTION**

Data was collected at the vertices of the dry lake perimeter as shown in figure7. During the traverses there was no mineralized outcrop encountered.

#### **RESULTS**

This exploration work satisfies the need for post spectral analysis verification. As the result of this work the location of the occurrence is defined and spectra have been collected for further analyses. Collocation of historic and archived data can be determined with a greater degree of positional accuracy and a signature for the recognition of this type of mineral occurrence may be possible.

#### **CONCLUSIONS**

As the result of this work, it is recommended that a program of resource definition soil by soil probe be undertaken. It is thought that an iterative approach to soil probe analysis may also increase the estimated resource.

#### **STATEMENT OF WORK**

The field work was carried out between Oct.28<sup>th</sup> and Oct. 30<sup>th</sup> 2006 and was conducted by Auracle Geospatial Science Inc. with David McLelland (Project Manager) and a field technician.

Post collection analyses was carried out as a part of a provincial uranium exploration program and ended January 5 2006.

While the actual cost of the work exceeds the amount (please see appendix II) applied to this assessment report, it agrees with the budget allowed to complete the work and is reduced from \$1549.20 to an applied total of \$400.00 with a filing fee of \$33.82



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Aldershot Resources Ltd.  
BC URANIUM PROJECT  
Bald Range  
Sinking Pond Tenure  
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Sinking Pond  
And Sinking Flats  
Mineral Tenure  
#508926



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OLIVER BC

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Aldershot Resources Ltd.  
BC URANIUM PROJECT  
Bald Range  
Sinking Pond Tenure  
ACCESS  
1:15,000

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Sinking Pond  
And Sinking Flats  
Mineral Tenure  
#508926

WHITE LAKE FAIRVIEW ROAD

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OLIVER BC

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FAIRVIEW

FAIRVIEW ROAD

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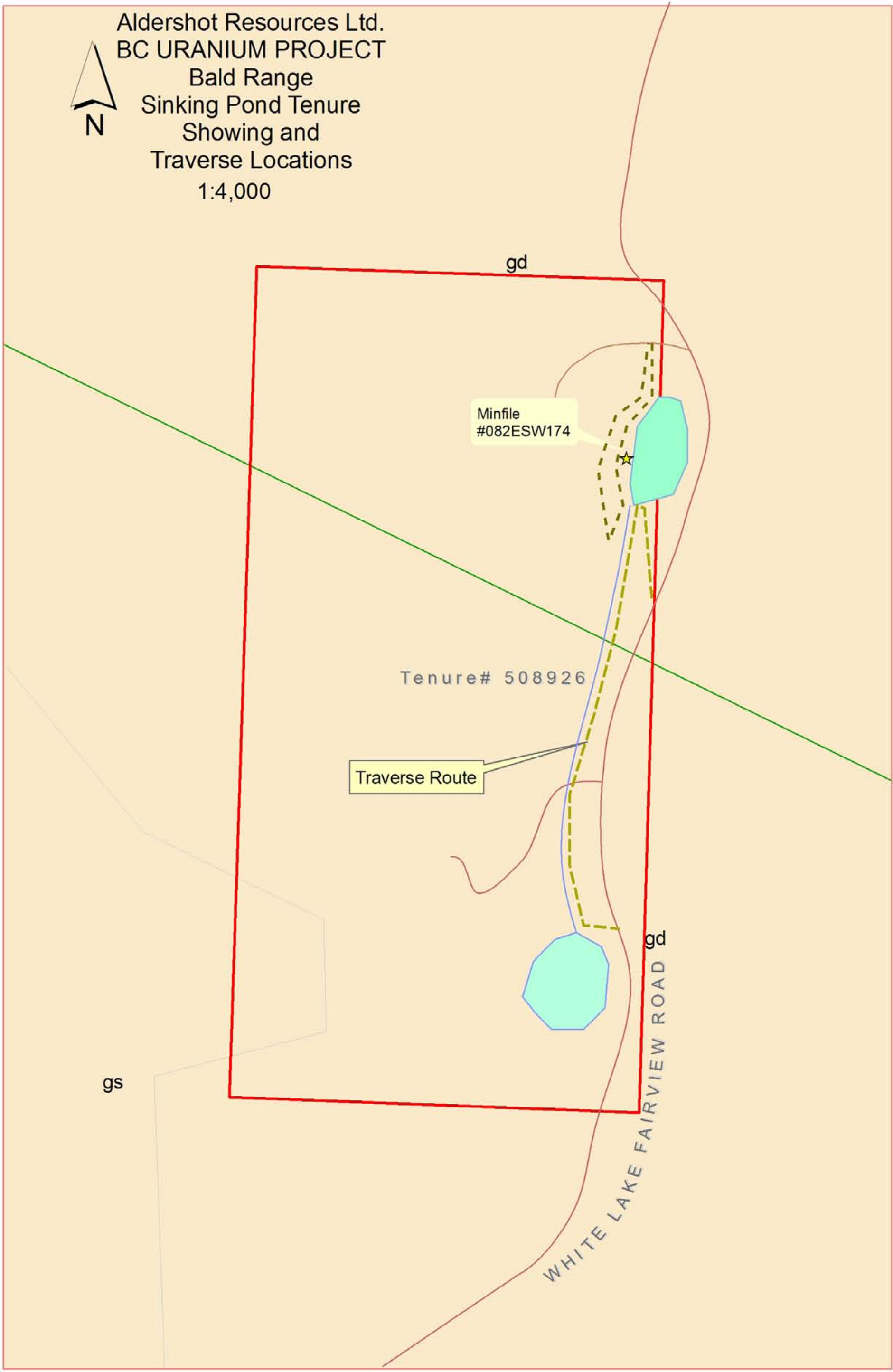
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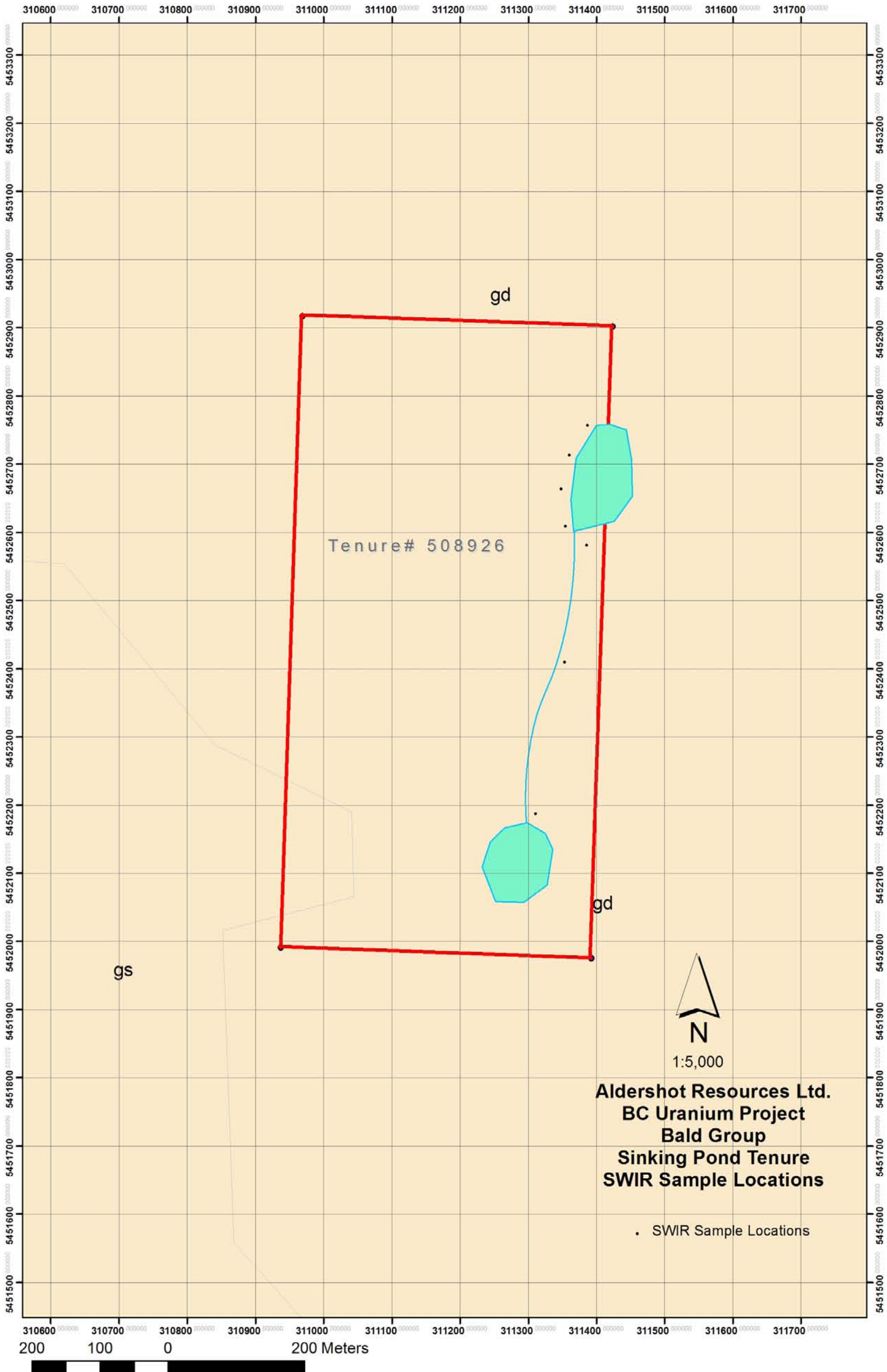
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600 300 0 600 Meters



Aldershot Resources Ltd.  
BC URANIUM PROJECT  
Bald Range  
Sinking Pond Tenure  
Showing and  
Traverse Locations  
1:4,000





**Aldershot Resources Ltd.  
BC Uranium Project  
Bald Group  
Sinking Pond Tenure  
SWIR Sample Locations**

• SWIR Sample Locations

200 100 0 200 Meters

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1:5,000

Tenure# 508926

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**BC Uranium Project, Nettwerk Uranium Properties**  
**Assessment Work Cost Report**  
**Property/Claim *Sinking Pond***

<b>Cost Categories</b>	<b>description</b>	<b>Units</b>	<b>Rate</b>	<b>Qty</b>	<b>No Units</b>	<b>Cost</b>	
<b>Labour Costs</b>							
	Manager (Spectral Analysis)	Spectral	\$/Day (8 hr)	\$550.00	1	1	\$550.00
	Technician	Spectral/ prospect/DGPS	\$/Day (8 hr)	\$350.00	1	1	\$350.00
<b>Travel</b>							
	Lodging	R&B Ass. Rates	Cost	\$100.00	2	3	\$0.00
	Meals	include in R&B	Cost				inc
	Ferry Fares	People		\$22.00			
	Ferry Fares	Vehicles		\$121.75			
	Vehicle	UNIMOG and Trailer	\$/Km	\$0.51	2	640	\$61.00
<b>Communications</b>							
	Satellite		\$/Week	\$100.00	1	1	
	Internet	in field ( room based)	\$/Mo	\$30.00	1	0.5	
<b>Field Equipment Rental</b>							
	Chain saw						N/C
	4X4 Truck		\$/Day	\$200.00	1	1	\$200.00
	Vehicle Fuel	Vehicle Fuel	\$/Day	\$25.00	1		\$51.00
	ATV		\$/Day	\$100.00	2	7	
	ATV Fuel	ATV Fuel		\$12.00	2	7	
	Generator		\$/Week	\$300.00	1	1	
		Generator fuel	\$/Day	\$10.00	1	7	
	Boat		\$/Month	\$500.00	1	0.25	\$0.00
<b>Technical Equipment Rental</b>							
	SWIR Photospectrometer	PIMA II U model	\$/week	\$1,035.00			\$150.00
	Scintillometer/ Gamma ray Spectrometer		\$/week	\$835.00			
	Base Computer		\$/Day	\$50.00			
	Portable Computer	Laptop link	\$/Day	\$25.00	1		
	DGPS		\$/Day	\$33.00	1	1.5	\$33.00
	Printer		\$/Day	\$10.00			
	GPS		\$/Day	\$20.00			N/C
<b>Freight</b>	Pima freight apportioned						\$0.00
<b>Sample Analyses</b>							
	Rock Sample Preparation		\$/Sample	\$5.86	21		
	Sample Bags	8x13Poly and tyvek Tag	\$/Bag	\$0.30	14		\$4.20
	Rock Samples Analyses	Group1EX-U	\$/Sample	\$11.35	21		
<b>Technical Work Costs</b>							
	Spectral Analysis Preparation						
	Spectral Data Acquisition Costs						
	Software Purchase		Cost +10%				
	Computer Processing		\$/Hr				
<b>Map &amp; Report Preparation</b>							
	Mapping Contractor		Cost +10%				\$150.00
	Printing & Copying		Cost +10%				
<b>Total Assessment Work Applicable Costs</b>							\$1,549.20
<b>Assessment Work Filing Fees</b>							
	Assessment Filing Fees		\$/Unit	\$0.40	1yr		
	Grouping Fees		\$/Group				

## Statement of Qualification

**I, David J. McLelland**, do hereby certify that:

1. I am a Principal in:  
Auracle Geospatial Science Inc,  
325 Dorset Road Qualicum Beach,  
British Columbia, Canada V9K 1H5
2. I am a post graduate student of Earth and Environmental Science and have completed the postgraduate certificate in applied and theoretical GI Science at Simon Fraser University, and completed the academic component of the MSc. program requirement. This work is also in partial fulfillment and serves as base data for a thesis.
3. *I have completed the B.C.I.T. B.C.Y.C.M. Mineral Exploration program, and Completed the B.C.I.T.1 B.C.Y.C.M. Advanced field School.*
4. I am the Project Manager and I am responsible for the collection and management of data and execution of analysis.
5. This report was prepared on behalf of Auracle Geospatial Science who has been engaged by Aldershot resources Ltd. to complete a work program on these properties.
6. I have no material or financial interest in the subject properties or the companies that own them.
7. This report has been prepared in accordance with generally accepted Scientific Principles and is based upon the best information available at the time of preparation. I am not aware of any material fact or material change with respect to the subject matter of the report that is not reflected in the report and therefore the omission of

Date: January 5, 2007  
Qualicum Beach, British Columbia

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David McLelland

Event Number: 4137232  
Event Type: Exploration and Development Work / Expiry Date Change

Work Type Code: B

Required Work Amount: 337.72

Total Work Amount: 400.00

Total Amount Paid: 33.82

PAC Name: Aldershot Resources

PAC Debit: 0.00

Tenure Number: 508926

Tenure Type: M

Tenure Subtype: C

Claim Name: Sinking Pond

Old Good To Date: 2007/mar/14

New Good To Date: 2009/mar/14

Tenure Required Work Amount: 337.72

Tenure Submission Fee: 33.82

Your technical work report is due in 90 days as per Section 33 of the Mineral Tenure Act and Section 16 and Schedule A of the Mineral Tenure Act Regulation. Please attach a copy of your confirmation page to the front of your report.

Server Name: PRODUCTION