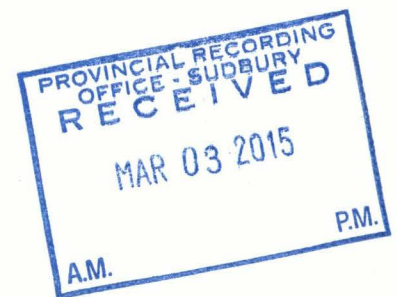


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**2014 Prospecting Report
McAra Property
North Williams & Dufferin Township
Larder Lake Mining Division, Ontario**

**By:
Todd Mathieu
Northern Sun Mining Corp.
Subsidiary Liberty Cobalt Inc.
February 27, 2015**



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1.0 INTRODUCTION

1.1 Scope of Work

This report describes the prospecting, trail maintenance, georeferencing work and professional surveying completed between July 10, 2014 and October 30, 2014 on the Northern Sun Mining Corp. 100% owned McAra Property. The work program was initiated in an attempt to compile, confirm and organize all historic work completed on the property in the last eighteen years and to follow up on the recent HLEM surveying completed in the spring of 2013. The property is host to two completely different types of mineralization with opposite orientations. Performing QA/QC and digitizing of the historic data will greatly aid with future planning and accuracy.

1.2 Technical Parameters

GPS Receiver Type:

- Garmin GPSmap 60CSx
- Differential correcting enabled
- Averaging (minimum 150 positional fixes over 150 seconds)

Coordinate System:

- NAD83, UTM Zone 17

Camera Type:

- Kodak EasyShare M550 (12 mega pixels)

2.0 PROPERTY DESCRIPTION

2.1 Location and Access

The Northern Sun Mining Corp. 100% owned McAra Property resides 26km southeast of the town of Shinning Tree in the Larder Lake Mining Division.

Ground access to the McAra Property from Timmins, Ontario, Canada begins by traveling approximately 20km west of Timmins on highway 101. Precede an additional 120km south on highway 144 until reaching highway 560 (Watershed). Precede an additional 43km east on highway 560 until reaching Sandy Lake Road. From this point travel 34km east on Sandy Lake Road and then southeast via a network of logging roads until reaching the North Williams Barite Mine/Northern Sun drill trail. (Figure 1-1) At this point an all-terrain vehicle is required to access the property (7.5km via ATV/Argo). (Figure 1-2).

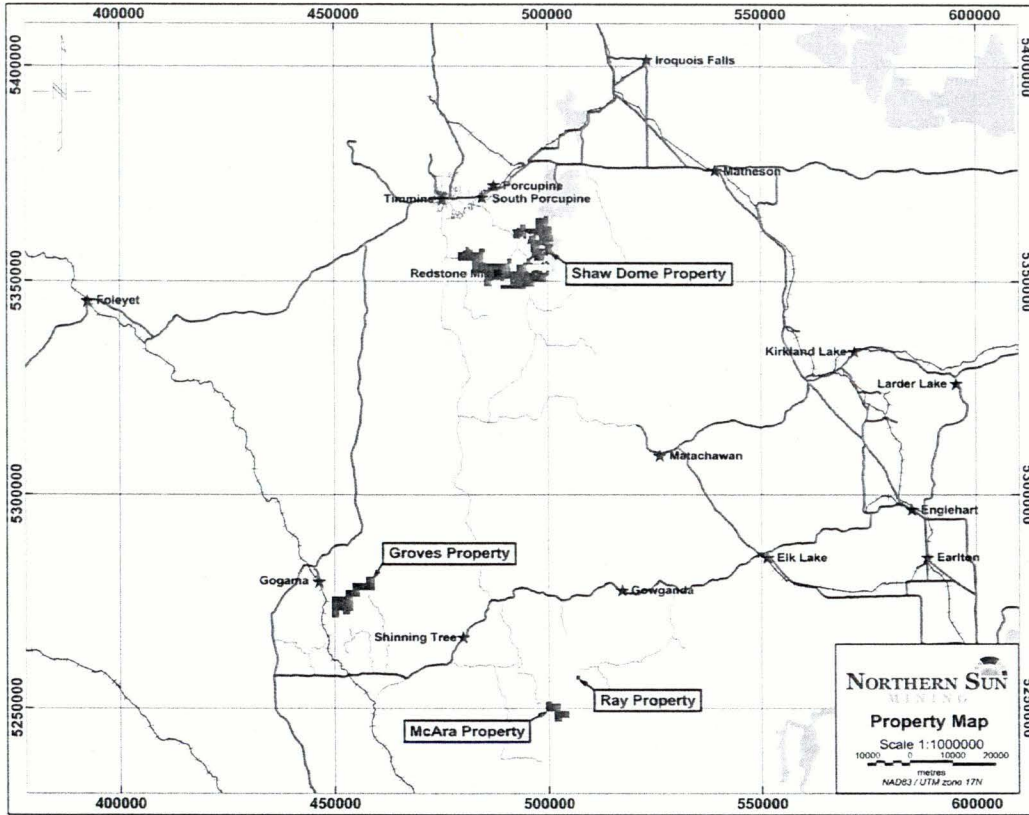


Figure 1-1

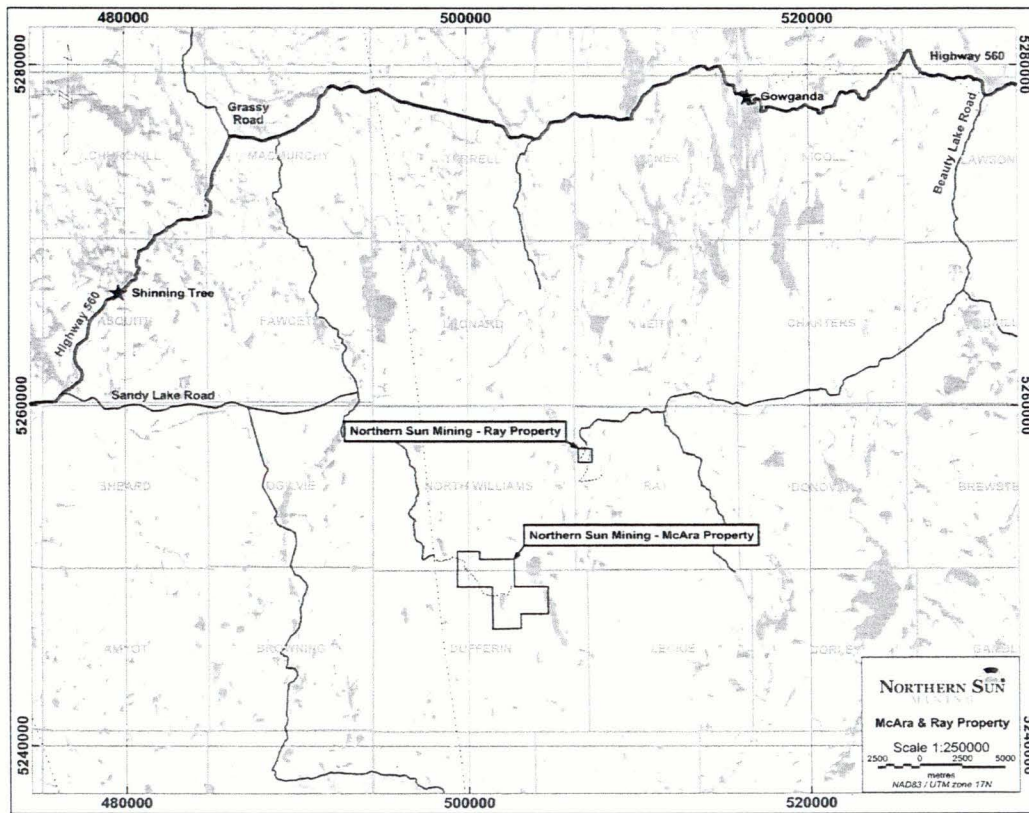


Figure 1-2

2.2 Property Overview

The McAra Property consists of 1 lease held under the name Northern Sun Mining and contains 24 claim units/382 hectares. Four claim blocks held under Liberty Cobalt, a subsidiary of Northern Sun Mining, contains 52 claim units/832 hectares. (Figure 1-3).

The property is host to several anomalous Ag, Au, Cu, Zn, showings associated with a sedimentary unit and highly anomalous Co/Cu/Ni values within drill intercepts associated with an arsenide vein system that has intruded the mafic volcanic, sedimentary, and gabbro units.

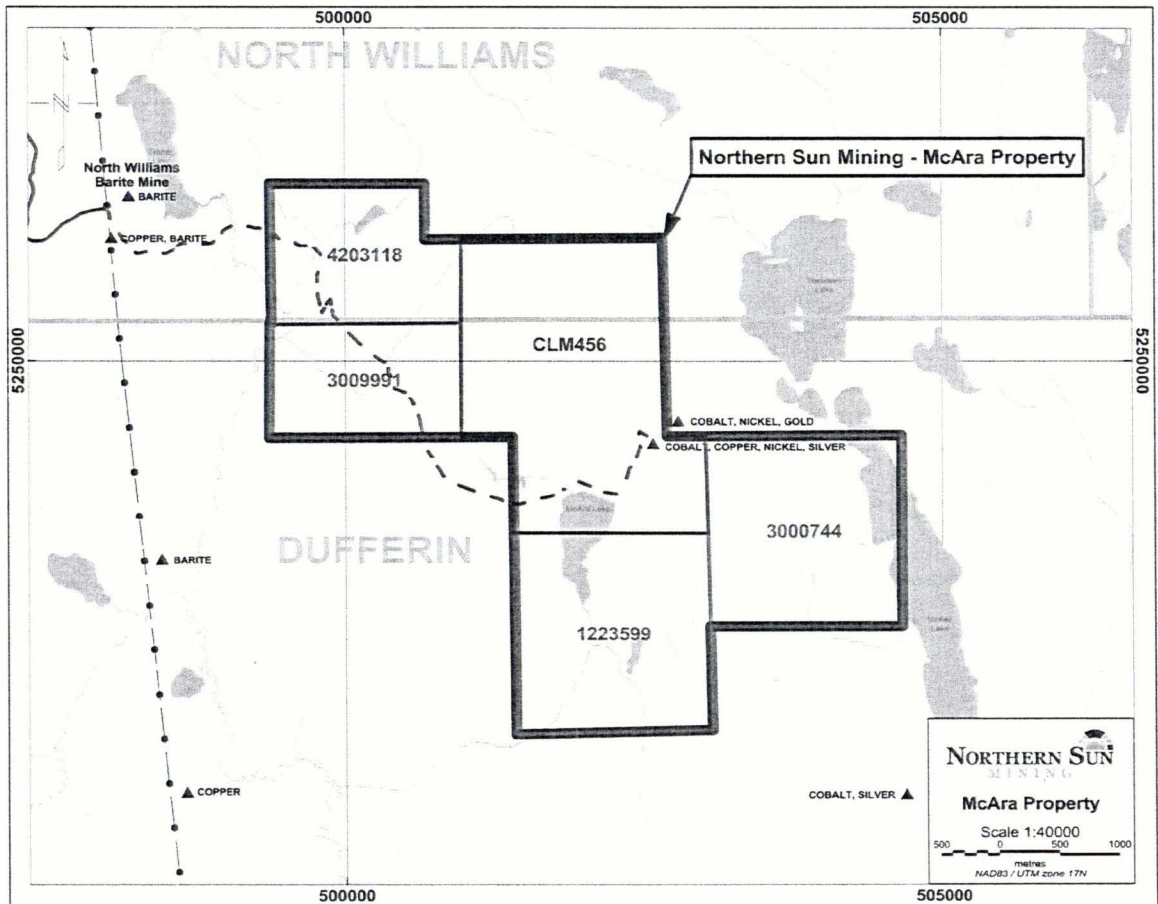


Figure 1-3

3.0 GPS GEOREFERENCING OF DATA

3.1 Collection of Data & Quality Control

Data was collected by Todd Mathieu and Shannon Farrell of Northern Sun Mining Corp., Ray Meikle and Rob Mathews of Meikle & Associates and a Talbot Surveying crew of two between July 10, 2014 and October 30, 2014. Due to the aggressive topography and rolling hills Talbot Surveying was contracted to professionally survey all drill casing located as part of the summer prospecting program. Talbot Surveying established a Static Post Processing Position Control Point and two other BM points as control points for the survey (Table 1-1)

2014 Survey Control Points

Control Point I.D.	Easting (NAD83)	Northing (NAD83)	Elevation (NAD83)	Description
GizmoBM	502450.68	5249341.11	398.06	Stump - used as Static Post Processing Position Control
McAraBM	502507.72	5249345.67	391.69	Outcrop - average elevation
OutcropBM	502538.71	5249385.05	381.89	Outcrop - low elevation, on Trench MCTR-01

Note: Static Post Processing Position Control used for quality control.

Table 1-1

4.0 McAra Property

4.1 Historic Work

The initial discovery was made in 1996 by Roy Annett. Rusty zones in volcanic rocks led to stripping and blasting with samples of pyrite/arsenopyrite returning results as high as 1.48% Zn, 3.5 gpt Au, 4.0 gpt Ag. In 1998 Wallbridge Mining Company Limited (Minescape Exploration Inc. at the time) completed airborne EM/MAG and followed up with north/south line cutting and geophysics in the form of HLEM and I.P. Between 1998 and 2002 Wallbridge drilled a total of 15 drill holes. Within the program two diverse types of mineralization was intercepted. The first type of mineralization has been interpreted as an interflow sedimentary unit containing low grade base metals, more specifically Ag, Cu, Zn, but also includes some low grade Au values. This unit appears to strike northwest/southeast, but in the vicinity of trench MCTR-01, it appears to strike closer to a north northwest/south southeast. The second type of mineralization discovered was an arsenide vein system containing high grade Co values with locally anomalous Ni and Cu. Although this mineralization has not been noted at surface, from drill intercepts it appears to strike west southwest/east northeast.

Between 2002 and 2003 Mustang Minerals performed line cutting and ground geophysics in the form of TDIP Resistivity, Induced Polarization, HLEM and MAG at a sixty degree azimuth presumably to better highlight and understand the mineralization associated with the sedimentary unit. In 2003 Mustang drilled a total of 11 drill holes.

From 2003 to 2010, under the names Liberty Exploration and Liberty Mines, Northern Sun Mining has drilled a total of 44 drill holes.

4.2 Present Work

Northern Sun Mining staff has reviewed the historic work and believe it is critical at this point to fully digitize this data, separate the two distinct types of mineralization and create a 3D model to better understand the complexities of this project. Considering three different operators have drilled the property, the aggressive topography/rolling hills, two distinct types of mineralization, and that not all the work has been georeferenced to today's standards, it is believed that the property would best benefit from a thorough prospecting/georeferencing program.

The program was planned and initiated by Todd Mathieu of Northern Sun Mining. Meikle & Associates was contracted to perform a majority of the prospecting/georeferencing, with Talbot Surveying to follow up with professionally surveying all drill holes, trenches, and sumps that were located, picketed, and georeferenced as part of the program.

In addition as a safety precaution, particularly for winter, Northern Sun had a snow fence erected around the large deep drill sump in the middle of the property.

I later followed up the program in late October by renting a Beep Mat 8 from GDD Instrumentation to ground truth HLEM peaks from the 2013 survey and to attempt to locate additional drill casings.

The initial prospecting/georeferencing program proved to be time consuming, but was successful in locating a majority of the historical drill holes and trenches. Ground access to the property continues to be an issue due to the nature of the drill trail and the network of logging roads leading to the property. From Three Bears Camp in Shinning Tree, round trip is 3.5 hours. From Gowganda, where Meikle & Associates had to lodge due to lack of room availability at Three Bears Camp, round trip was 4 hours plus. This does not include stopping to perform road maintenance as required.

The Wallbridge Mining drill casings proved to be the toughest in locating with only 4 of 15 drill casings being found. I believe this can be attributed to the later drill programs using the same drill platforms and trails, plus the fact that the drill trails associated with the original Wallbridge drilling have grown in with thick tags/trees.

Ten of the eleven drill casings from the Mustang Minerals drilling were found. I would accredit this to the diligent work performed by Mustang Minerals geologist in the early 2000s as my experience has dictated that their UTM NAD27 GPS coordinates found in their reports during that time frame have always been extremely accurate.

Of the 44 Liberty Exploration/Liberty Mines drill casings, 42 drill holes were believed to be located. I believe this can be attributed to the first eighteen holes being surveyed by Talbot Surveys in 2006 and that the remainder of the drill holes were GPSed in UTM NAD83. Several casings were missing in areas where multiple holes were drilled or high traffic areas, but this is common problem that could be expected depending on the drilling conditions/equipment and ongoing drill programs. There was a considerable variance associated with the latter 25 drill casings, but that could easily be attributed to the thick tree cover, rolling hills of the project area and the GPS equipment being used.

We have relied on Talbot Surveying at the Redstone Mine/Mill site due to their diligent work ethic, quality work, and experience. Although Talbot ran into equipment problems/failures the work was completed in a timely manner and provides confidence in our digital data going forward. The data collected has been compiled into a single map (Figure 2-1).

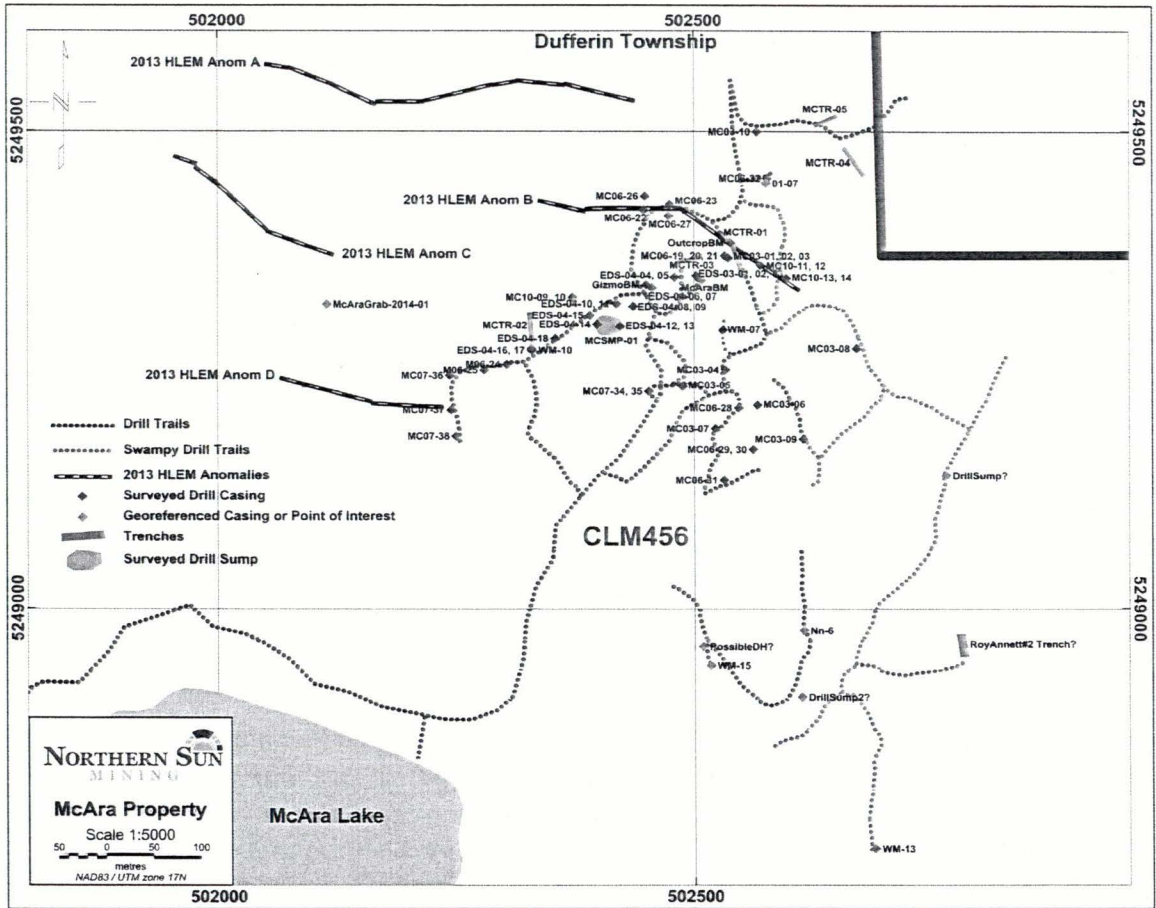


Figure 2-1

Surveyed drill hole collars/casings have been compiled in Table 2-1, with Table 2-2 containing all trenches and the drill sump surveyed as part of the program. A third table (Table 2-3) contains additional drill casings/collars located and GPSed after the surveying program and a fourth table (Table 2-4) contains the remaining drill casings/collars to be located and where their current assumed location resides. Additional GPS points were taken around the property of historic grid pickets to assist with GIS referencing in the office. These points are critical to establish the orientation/location of the historic grids so that previous geological mapping and geophysics can be utilized to assist with future programs.

McAra 2014 Talbot Survey - Drill Hole Collars

BHID	Easting (NAD83)	Northing (NAD83)	Elevation (NAD83)	Surveyed By	Year Surveyed	Notes
EDS-03-01, 02, 03	502502.33	5249350.70	391.62	Talbot Surveying	2014	
EDS-04-04, 05	502479.86	5249349.07	394.53	Talbot Surveying	2014	
EDS-04-06, 07	502456.57	5249337.72	397.33	Talbot Surveying	2014	
EDS-04-08, 09	502436.93	5249319.14	397.31	Talbot Surveying	2014	
EDS-04-10, 11	502419.37	5249321.85	396.45	Talbot Surveying	2014	
EDS-04-12, 13	502423.43	5249297.71	391.53	Talbot Surveying	2014	
EDS-04-14	502399.10	5249300.00	396.10	Talbot Surveying	2006	Minor differences between 2006 & 2014 survey. Unable to
EDS-04-15	502391.69	5249309.32	397.10	Talbot Surveying	2014	
EDS-04-16, 17	502331.15	5249272.63	405.71	Talbot Surveying	2014	
EDS-04-18	502355.50	5249285.00	405.80	Talbot Surveying	2006	Minor differences between 2006 & 2014 survey. Unable to
MC06-19, 20, 21	502532.42	5249371.42	381.99	Talbot Surveying	2014	
MC06-22	502448.04	5249418.93	400.07	Talbot Surveying	2014	
MC06-23	502474.72	5249424.74	397.38	Talbot Surveying	2014	
M06-24	502305.23	5249257.72	406.94	Talbot Surveying	2014	
M06-25	502281.44	5249251.78	406.06	Talbot Surveying	2014	
MC06-26	502449.30	5249433.59	401.97	Talbot Surveying	2014	
MC06-27	502473.88	5249413.02	396.22	Talbot Surveying	2014	
MC06-28	502546.78	5249211.66	391.73	Talbot Surveying	2014	
MC06-29, 30	502562.21	5249167.89	400.74	Talbot Surveying	2014	
MC06-31	502531.49	5249135.07	401.30	Talbot Surveying	2014	
MC06-32	502577.56	5249452.09	382.52	Talbot Surveying	2014	
MC07-34, 35	502453.19	5249229.42	397.27	Talbot Surveying	2014	
MC07-36	502245.10	5249246.03	399.62	Talbot Surveying	2014	
MC07-37	502246.38	5249209.42	398.94	Talbot Surveying	2014	
MC07-38	502251.52	5249181.87	394.75	Talbot Surveying	2014	
MC10-09, 10	502373.35	5249327.97	400.82	Talbot Surveying	2014	
MC10-11, 12	502569.97	5249361.61	379.64	Talbot Surveying	2014	
MC10-13, 14	502597.34	5249347.96	379.65	Talbot Surveying	2014	
MC03-01, 02, 03	502535.99	5249369.09	381.56	Talbot Surveying	2014	
MC03-04	502533.04	5249252.06	385.97	Talbot Surveying	2014	
MC03-05	502488.11	5249234.53	394.47	Talbot Surveying	2014	
MC03-06	502566.78	5249214.59	388.92	Talbot Surveying	2014	
MC03-07	502522.36	5249189.71	393.64	Talbot Surveying	2014	
MC03-08	502671.02	5249274.73	379.27	Talbot Surveying	2014	
MC03-09	502615.04	5249178.92	380.17	Talbot Surveying	2014	
MC03-10	502566.58	5249499.84	384.31	Talbot Surveying	2014	
WM-07	502530.38	5249293.89	388.43	Talbot Surveying	2014	
WM-10	502331.00	5249274.21	405.39	Talbot Surveying	2014	

Table 2-1

McAra 2014 Talbot Survey - Trenches & Sumps

Item I.D.	Easting (NAD83)	Northing (NAD83)	Elevation (NAD83)	Surveyed By	Year Surveyed	Notes
MCTR-01NE	502544.33	5249384.13	380.41	Talbot Surveying	2014	
MCTR-01NW	502527.94	5249397.42	382.65	Talbot Surveying	2014	
MCTR-01SW	502538.27	5249381.14	381.21	Talbot Surveying	2014	
MCTR-01SE	502551.92	5249348.73	379.97	Talbot Surveying	2014	
MCTR-02N	502328.67	5249312.34	409.23	Talbot Surveying	2014	
MCTR-02S	502332.25	5249273.75	405.25	Talbot Surveying	2014	
MCTR-03E	502508.81	5249370.77	388.19	Talbot Surveying	2014	
MCTR-03W	502483.46	5249363.83	394.31	Talbot Surveying	2014	
MCTR-04NW	502657.36	5249483.85	388.06	Talbot Surveying	2014	
MCTR-04SEos10m	502678.78	5249454.64	390.03	Talbot Surveying	2014	
MCTR-05NE	502650.79	5249516.19	390.76	Talbot Surveying	2014	
MCTR-05SW	502627.61	5249505.98	392.73	Talbot Surveying	2014	
MCSMP01N	502408.06	5249309.28	395.02	Talbot Surveying	2014	
MCSMP01NW	502397.11	5249303.55	395.44	Talbot Surveying	2014	
MCSMP01W	502398.78	5249293.91	394.90	Talbot Surveying	2014	
MCSMP01SW	502401.67	5249289.47	393.99	Talbot Surveying	2014	
MCSMP01S	502413.95	5249288.92	392.78	Talbot Surveying	2014	
MCSMP01SE	502423.01	5249293.10	394.02	Talbot Surveying	2014	
MCSMP01E	502424.84	5249302.42	393.97	Talbot Surveying	2014	
MCSMP01NE	502414.74	5249308.19	396.77	Talbot Surveying	2014	

Table 2-2

McAra 2014 - Prospecting Points of Interest - GPSed

BHID or Point of Interest	Easting (NAD83)	Northing (NAD83)	Elevation (NAD83)	GPSed By	Year GPSed	Notes
WM-13	502689	5248748	386	T.Mathieu	2014	
WM-15	502517	5248940	388	T.Mathieu	2014	
Nn-6	502615	5248977	394	T.Mathieu	2014	Mystery drill hole, Az:100 degrees, 40 dip
01-07	502576	5249447	382	R.Meikle	2014	Mystery drill hole, located close to M06-32
EDS03-18	502355.50	5249285.00	405.80	Talbot Surveying	2006	Found with Beep Mat 8, buried beneath drill trail. Use 2006 Talbot Survey coordinate for location.
RoyAnnet#2-Trench Start	502779	5248973	391	T.Mathieu	2014	
RoyAnnet#2-TrenchFinish	502783	5248949	392	T.Mathieu	2014	
DrillSump?	502764	5249140	383	T.Mathieu	2014	
DrillSump2?	502613	5248907	389	T.Mathieu	2014	
PossibleDH?	502509	5248960	390	T.Mathieu	2014	Suspicious sunken hole with picket and flagging jammed down hole. Looks like a drill hole with a pulled casing. Located 35m southwest of the approximate location of WM-01?
McAraGrab-2014-01	502115	5249321	408	T.Mathieu	2014	Grab sample, mafic dyke?, dark grey, fine grained, 5-7% Fe on hand held XRF, appears to cross cut between HLEM anomaly C & D as interpreted by John Grant, 2013 geophysical report/interp.

Table 2-3

McAra 2014 - Assumed Historic Drill Hole Locations

BHID or Point of Interest	Easting (NAD83)	Northing (NAD83)	Elevation (NAD83)	Notes
WM-01	502530	5248987.9	400	Not found but, suspicious flagging and stick/picket flagged/buried in ground. Dipping north. Beep Mat did not react. Casing possibly pulled?
WM-02	502526.2	5249369.2	400	Searched for, not located. Believe it was destroyed with later drill programs. Duplicate hole to M06-19,20,21 & MC-03-01,02,03
WM-03	502436.3	5249316	400	Unable to locate with MAG. At EDS-04-08 setup
WM-04	502619.5	5249148.8	400	Not found. Unable to locate.
WM-05	502784	5248972.7	400	Unable to locate along winter drill road
WM-06	502716.1	5249028.9	400	Unable to locate along winter drill road
WM-08	502527.2	5249436.8	400	In swamp, unable to locate with MAG.
WM-09	502438.9	5249126.5	400	Still unable to locate.
WM-11	502437.7	5249274.3	400	Unable to locate with MAG or Beep Mat. Lots of metal in area.
WM-12	502616.2	5249080.5	400	Along edge of hill. Unable to locate.
WM-14	502623.7	5248916	400	Not found but Nn-6 drill hole in vicinity of WM-14
MC03-11	502459	5249325	400	Still unable to locate, close to sump, casing possibly destroyed during later drill program? Right along drill trail.
EDS03-14	502399.1	5249300	396.1	Still unable to locate, close to sump, casing definitely moved during later drill program. Use 2006 Talbot Survey coordinate for location point.
MC06-33	502600	5249332	398	Still unable to locate. In a swamp. Casing damaged by previous drill program?

Table 2-4

Review of the trenches located during the prospecting/georeferencing program confirmed mafic volcanics with mafic dykes. At no point are the arsenide veins seen at surface. The most interesting mineralization resides in trench MCTR-01 which is part of what has been interpreted as a sedimentary interflow unit. Using our hand held XRF in the office; only minor Cu values were noted from the sample taken from the MCTR-01 trench. One important note is that the unit appears to have experienced extensive folding and mostly like dilation. Future drilling and modeling should take this into account.

Rusty zones were noted in mafic volcanics at what is believed to be the Roy Annett # 2 trench, but no sample was taken.

As interpreted by John Grant from the 2013 geophysical program, a mafic, fine grained unit that appears to be a northeast/southwest dyke/fault, cross cuts between HLEM anomaly C & D. Sample McAraGrab-2014-01 was taken back to the office and returned values of 5-7% Fe on our hand held XRF. There is a good chance that these two conductors and conductor A & B are each one in the same, but now separated by this fault/dyke. As pointed out by John Grant, C & D are on a different lithological plane than anomaly A & B, leading one to believe that neither conductor C or D has been drill tested by previous drilling.

Surveying with the Beep Mat 8 did assist in locating additional drill holes, but failed to locate any new conductors that maybe associated with the 2013 HLEM anomalies. Due to two months of heavy rains, the ground was extremely saturated. The BM8 had to be re initialized frequently to compensate for the ground conductivity conditions. I believe this may directly affect the depth penetration of the unit and overall quality of the survey. The 2013 HLEM anomalies peaks all resided in areas with significant overburden and mixed tree cover, except for the east peak of anomaly C which resided in a narrow section of poplar. The next step for these particular conductors would be to test with diamond drilling.

As part of the survey with the BM8 we also reviewed several localized MAG highs from the 2013 geophysics program to ensure they were not related to drill casings or other metallic objects.

5.0 Forward Statements

The program was successful at locating and georeferencing a majority of the historical trenching, mapping, drilling, completed on the McAra Property in the last 18 years. 2013 HLEM anomalies were ground truthed, but did not lead to any new discoveries.

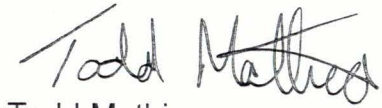
My recommendations for the next steps for the program are to utilize the GPS coordinates from the historic grids/pickets and attempt to georeference/overlay the 2003 geophysics completed by Mustang Minerals to review how it coincides with the current drilling and the 2013 geophysics program. In addition a map produced by Wallbridge Mining titled Prospecting/Geological Map and dated December 3, 1998 is a compilation map of geology mapping, vegetation, trenches, current drill holes at time of creation, drill trails, etc. With the current GIS data collected georeferencing/overlaying this map may now be possible which will provide the project with a variety of data and reduce the amount of geological work that will need to be recompleted/recompiled. If successful, several weeks of work could be reduced down to a few days of confirming the data in the field.

Using the above data, attempt to locate and georeference the remaining drill casings. Survey all new GPS points if possible.

In the drill logs, clearly define the two types of mineralization, so that 3D modeling can take place and establish 2 separate 3D volumes of known mineralization/lithology units. This would aid greatly with future drill programs by further defining strike, dip, and plunge of the two mineralized bodies. It would also provide a rough estimate of volume and grade of the cobalt mineralization that has seen extensive drilling.

Drill test anomaly A, C, and D from the 2013 geophysics program.

With two distinct types of mineralization, HLEM anomalies that don't appear to have been drill tested, the possibility that the Co arsenide vein system may or may not still be open along strike, and anomalous Au values throughout the property, I believe the McAra Property warrants further work.

 Feb 27, 2015

Todd Mathieu

6.0 STATEMENT OF QUALIFICATIONS

I, Todd Mathieu, do hereby certify that:

1. I reside at 216 Tisdale Street, South Porcupine, Ontario, Canada, P0N 1H0.
2. I am a graduate of the Computer Programmer/Analyst Program at Canadore College, North Bay, Ontario.
3. I have practiced my geological and geophysical profession intermittently from 1994 to 2009, and consistently from 2009 to present. I have been directly involved in the exploration of several mineral commodities in Ontario and have a strong technical background in geophysics and GIS.
4. I am employed as a Project Geology Technician for Northern Sun Mining Corp. based from its Timmins office.
5. I have knowledge and experience of the geology, geophysics, core logging, sampling, claims management, security practices of Northern Sun Mining Corp. and their portfolio of properties.
6. I have completed the Mining Act Awareness Program (verification number: BE8C-9100-C9D2-3E6E) and I am familiar with the mining act regulations, policies and procedures.

February 27, 2015



Todd Mathieu

Todd Mathieu
Project Geology Technician

7.0 Northern Sun Mining – Daily Log

Project Manager: Todd Mathieu

Helpers: Shannon Farrell, Northern Sun Mining, and Rob Matthew, Meikle & Associates.

McAra Property Logistics

Access from Timmins: 3 hours of travel

Access from Three Bears Camp in Shinning Tree: 1.75 hours

July 10, 2014

Shannon Farrell and I (Todd Mathieu) mobilized from Timmins to the North Williams Barite Mine/McAra drill trail. Due to the number of random logging roads/trails we GPS'ed and flagged in the access along Sandy Lake Road to make it visually clear for the contractors and the remainder of the program. Using an Argo we used the McAra drill trail to access the McAra Co/Cu showing. It appeared the trail hadn't been used yet this summer as the underbrush was high leaving hazardous boulders hidden and several trees had fallen across road. More specifically a beaver dam located two thirds of the way in is washing away the trail and beavers have cut several large poplars that have fallen across the trail. Most of this day was spent on trail maintenance, GPSing access and quickly inspecting the site for visible casing and planning of the remainder of the prospecting program. We demobilized equipment and stayed at Three Bears Lodge for the night. (13 hour day).

July 11, 2014

Shannon Farrell and I (Todd Mathieu) mobilized equipment from Three Bears Camp to the McAra drill trail. We continued to perform trail maintenance and flagging hazards while accessing the site. We attempted to locate several casings to verify the accuracy of the historic records. The locations of the EDS-04-XXX series of drill holes appear to be in the correct locations, so visible casing were marked with flagging for the upcoming locating/staking/surveying of the drill holes. We were able to locate/flag MC06-27, but spent an hour trying to locate MC06-22, 23, 26 with no luck due to the thick underbrush. We verified the location of several trenches and a drill sump that we deemed a safety hazard, so we will plan to have it snow fenced and surveyed/picketed by our contractors. Unfortunately a main drive chain on the Argo broke leaving one drive tire spinning in the track. We were unable to climb the smallest of hills. We ended up having to pack out our gear 7.5km. As soon as we had the necessary parts, my senior site mechanic and I returned later in the week to retrieve the Argo. (10 hour day)

August 18, 2014

Locating of drill casings, picketing, GPSing contract had been awarded to Meikle & Associates. On August 18th I (Todd Mathieu) mobilized equipment and supplies to the McAra property where I met with Ray Meikle and Rob Matthew. We proceeded to haul in supplies (3 bundles of 7ft pickets, flagging, paint, rope, snow fencing, tags, etc.) into the site. The trail has several crossing with weak bottoms and the Yamaha side by side struggled most of the way and required winching off the Argo at several points. At site I performed a quick orientation, unloaded supplies and began working our way back out the road. We stopped to perform trail maintenance (mostly corduroying) at several locations that the side by side had broken through the base of the trail. It was after 7pm by the time I arrived back in South Porcupine. (15 hour day)

September 29, 2014

Talbot Surveying had been awarded the contract to professionally survey all the drill casing and trenches located as part of the summer prospecting/locating program. Ray Meikle travelled from North Bay and I travelled from South Porcupine. We met in Shinning Tree where we met up with a crew from Talbot Surveying. We began to mobilize equipment to site when Talbot's Argo blew a tire and threw the track at approximately 1.5km in the McAra drill trail. We spent over an hour getting the track back on and attempting to put air in the tire with no luck. We proceeded back to the trucks/Barite mine where we spent additional time trying to repair the Argo with no luck. We proceeded to demob to Three Bears Camp arriving at 4pm. (11 hour day). Due to the badly damaged tire Talbot surveying continue to work on their equipment. Talbot Surveying had a generator, impact gun and a spare tire sent down from Timmins and proceeded to repair their Argo at Three Bears Camp.

September 30, 2014

Ray Meikle of Meikle & Associates, Talbot Surveying, and I (Todd Mathieu) mobilized from Three Bears Camp to the McAra Property. At site I performed a quick orientation with the Talbot Surveyors and we established the logistics for the survey. Ray and I worked with Talbot to prepare an area and establish a Static Post Processing Position Point (GizmoBM) as a base station for the survey. Unfortunately the Static Post Processing Position Control equipment was not working correctly and Talbot had to have additional equipment flown in by float plane via McAra Lake. While Talbot dealt with the issue and began surveying, Ray and I finished picketing/labelling the last couple trenches located, and took a couple samples/notes of the geology in the trenches. The only trench sampled that contain sulphides was trench MCTR-01. It is an area that has been stripped and clearly exposes the sedimentary unit containing significant amounts of disseminated/stringers of sulphides (10-50% locally). Foliation is visible with heavy localized folding. The unit appears to have seen extensive dilation and all further modeling/drilling should take this into account. Sample McAraGrab2014-02 contained 20% sulphides (disseminated fine Py?, stringers of Cpy). Testing in the office with our hand held XRF demonstrated anomalous values of Cu. We demobilized back to Three Bears Camp for the evening. (10 hour day).

October 1, 2014

Ray Meikle of Meikle & Associates, Talbot Surveying and I (Todd Mathieu) mobilized from Three Bears Camp to the McAra drill trail. Talbot Surveying proceed to the McAra site to finish the surveying program while Ray and I worked on trail maintenance, considering my Argo was experiencing engine issues which was later diagnosed as the coil shorting out. Talbot Surveying finished mid afternoon and proceeded back to Three Bears Camp where they packed up their gear and travelled back to Timmins. Ray and I finished up our trail maintenance later that afternoon and demobilized all equipment/gear back to Three Bears Camp. (8 hour day).

October 2, 2014

I organized, cleaned, and packed up my gear/field equipment and travelled back to South Porcupine. (4 hour day).

October 23, 2014

I (Todd Mathieu) picked up Rob Matthew of Meikle & Associates in Timmins and we mobilized to the McAra Property. I had rented a Beep Mat 8 from GDD and we proceed to survey/ground truth the HLEM anomalies from our 2013 geophysical survey. In total we had eleven anomalies peaks to ground truth. We began to the southwest on line 9700E at station 9975N and proceeded in a clockwise direction examining and surveying 50-75m in both a north and south direction from each anomaly peak. The BM8 conductivity frequency was extremely sensitive due to the amount of ground water considering it has been an abnormally wet late summer/fall. The BM8 had to be re initialized frequently especially in low lying areas or areas with conductive overburden (clay, etc). No significant conductive anomalies were found. John Grant of Exsics Exploration as part of the 2013 geophysics program interpreted a northeast/southwest fault between anomaly C & D and also between anomaly A & B. While in the field we were able to determine that a mafic, fine grained unit (dyke?), with 5-7% Fe on handheld XRF, does pass through this area in a northeast direction. Therefore John's belief that anomaly C & D maybe part of the same conductor and A & B are the same conductor may hold true. At the end of day we tested the BM8 in the vicinity of MCTR-01 trench and it clearly showed as a conductive anomaly. To be expected, along the drill trail up to MC06-23 we also picked up a weak conductive anomaly. We de mobilized equipment to Three Bears Camp for the evening. (11 hour day)

October 24, 2014

Rob Matthew of Meikle & Associates and I (Todd Mathieu) mobilized equipment from Three Bears Camp to the McAra property. Minor trail maintenance was completed due to fallen trees and poor trail conditions. With the use of the BM8 we attempted to locate additional historic drill holes that were not found during the earlier 2 week program conducted by Meikle & Associates. This area of the property is mostly mossy bog with outcrop on either side of this north/south channel. Historical records indicate that it is believe that the sedimentary unit containing elevated base metals and low grade Au intercepts swings south and may sit in this low laying area of the grid. Following the historic drill trails from the Walbridge and Mustang drilling and using the BM8 we were able to locate additional historic casings (WM-13, WM-15) and the trench referred to as the RoyAnnet # 2 showing. Rusty mafic volcanics was noted, but no samples were taken. We also found a casing labelled Nn-6 with an Az of 100 degrees and 40 degree dip up in the area we expected to find WM-14, a sunken hole with picket and flagging that looked like a drill hole with the casing removed in the vicinity of WM-01. Up on the higher ground we found the location of EDS03-18 which is buried beneath the drill trail. We demobilized equipment to Three Bears Camp for the evening. (9 hour day)

Additional prospecting/mapping was planned for October 30 and 31st, but the Exploration Argo blew a flange bearing on the main drive axle while performing work on the Northern Sun Mining Groves Property on October 29th. Unfortunately the work program was cut short.



February 25, 2015
Todd Mathieu

8.0 Meikle & Associates – Daily Log

Aug. 18

- Mobilized to Gowganda

Aug. 19

- in to property with Todd Mathieu
- had to do extensive work on trail to permit access with ATV, option was to rent an argo which is more expensive and would have lost the day.
- got to property, did orientation, etc. Unloaded supplies and worked on road on way out

Aug. 20

- located EDS-04, EDS-04-06, picket and GPS, confidence level (CL) High
- 0502455,5249340
- located EDS-04-08-09 502437,5249314, picketed and GPS
- my GPS seems to be app 10m out on northing, CL High
- try to find WM-03, should have been 5m south of EDS-04-08&09 but no sign of it
- found a tip of an old picket apprx 10m east of EDS-04-08 with metal tag L0/100w, i tied it to a big tree with flagging, not sure what grid this is but much older than the 2013 grid, lines not visable.
- located EDS-04-10&11, 502420,5249322
- Both casings flat, embedded in the road, run over, picketed and GPS
- confidence level high
- look for EDS-04-12&13, appeared to be in Sump, not found, measured with tape from EDA-04-10&11, no luck
- look for EDS-04-16&17, found 2 casings on east side of road at or close to surveyed GPS wp, inches apart. Northern casing metal tagged WM-10, approx 50 dip az 360 on the south edge on a long trench(grown over)
- casing inches south of above casing approx 65 deg az 360, prob either EDS-04-16 or 17
- but didn't find 2nd EDS casing.

Aug. 21

- located MC10-09 and MC10-10 0502369,5249321
- 2 large dia casings az 360 deg.
- dips appear to be -55 and -65 deg.
- no metal tags
- CL HIGH
- EDS-04-14, couldn't find, will try with mag tomorrow
- EDS-04-15, looked for, should be on main road or road to MC10-09&10. Will look for with mag tomorrow
- EDS-04-18, looked for should have been on or on edge of main rd, or under a blue drill shack which is up on a 2m ledge on east side of road, there is no drill in the shack. Will try with mag tomorrow.
- -EDS-04-04&05, located 0502481,5249355
- 2 collars az.360 deg. Dips -55, -65, metal tags on both
- CL HIGH
- EDS-03-010203 0502506,5249355
- located two collars with metal tags, EDS-03-02&03, brkn casing on ground, probably EDS-03-01
- bigger casings than EDS-04-04&05, CL HIGH

Aug. 22

- look for EDS-04-18 with mag, no luck because of influence of drill shack, still not found
- located EDS-04-15 on north side of main rd, used mag and shovel, casing broke off and buried not visible without digging. 0502396,5249305
- not tag but CL HIGH
- looked for EDS-04-14 with mag, not found. On north edge of the sump between sump and road, lots of visible tracks, possible that it got run over during salvage operation of bulldozer. We spent 1 hour looking sweeping with mag.
- EDS-04-12&13 located 0502417,5249293
- only found 1 casing, probably EDS-04-12, approx dip -50
- on the very east edge of the sump, steep down to sump, not sure if sump put in after or not
- CL HIGH
- MC-07-36, located on road, metal tag 502243,5249236
- -45 deg az 360
- CL HIGH
- MC-07-37, located on road, no tag 502247,5249203
- -45 deg az 360
- CL HIGH
- MC-07-38, located on road, no tag 0502249,5249184
- no az or dip, casing bent, prob run over, hole at end of road
- CL HIGH
- M06-25, located, no tag, 0502285,5249254
- az 05 deg, dip -45
- in very middle of road, hard to see
- CL HIGH
- MC-03-11 not found
- should have been approx 6m west of M06-25 and drilled az 062 (odd az compared to other holes in vicinity??), wondering if GPS wp is correct as there are several holes drilled az 062 MC-03-01&04,05,06,07,08,09 none of which are in this area.

Aug.23

- M06-24 located 0502307,5249253
- in middle of road, casing run over and broken with metal tag on it but Im sure it is still in original location
- CL HIGH
- MC10-15&16 looked for but no sign of, probably not drilled
- MC-07-34&35 located 0502452,5249231
- - metal tags on both, drilled 360 deg 35 az approx -45, 34 approx -55
- CL HIGH
- M06-22 located 0502449,5249417
- az 175 deg, dip -45 deg no tags
- mag used to locate
- M06-27 located 0502462,5249415
- no tags -45 dip, 190 deg az
- was found and flagged already
- CL HIGH
- M06-26 located after 45 minute with mag and chain from M06-22 0502451,5249437
- Az app 180 dip -45 metal tags

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- CL HIGH
- M06-23 located 0502471,5249429
- located with mag in very grown in clearing, metal tags
- CL HIGH
- Found M06-32?? And another hole marked with tag 01-07, not sure what is going on here, should only be M06-32, reported to client and will wait till he looks in to it.

Aug. 24

- M06-19,20 and most likely 21 0502539,5249372
- 2 casings found together, both steep, metal tags M06-19 and M06-20
- M06-21 not found, should have been with other two
- M06-19 dip approx -50-55 deg, az 010 deg
- M06-20 dip approx -45 deg, az 010 deg
- CL HIGH
- MC-03-01 located 0502533,5249371 metal tag on it
- Az 060 dip -45
- MC-03-02&03 should have been same location but not found, a mag high very close but separate from MC-03-01 was found but too deep for shovel.
- CL HIGH
- WM-02 Not Located, the spreadsheet GPS wp show slightly off of M06-19,20,21 and MC-03-01,02,03 but I am assuming that one of these drill set ups was drilled to reproduce results of WM-02 and as such the casing was most likely destroyed as the two drill set ups are quite close together. We swept the clearing with the mag but did not locate WM-02.
- Approximately 40 meters further down the road we found an old picket on the ground with flagging on it. Could still read the marker MC-10-09, looks like a picket used to spot a drill hole but there is no hole. Actually MC-10-09 was drilled and located by us quit a ways further west. Probably spotted the hole then decided to not drill and used the number for next hole.
- MC10-11&12 located 0502576,5249362 no tags
- MC10-11 -50 dip, az360 metal cap on casing
- MC10-12 -65 dip, az360
- CL HIGH
- Located MC10-13&14 will gps and mark next time out
- We also located several grid/road intersections and pickets. Pickets are metal tagged and we flagged at road with co-ords to facilitate grid reconstruction each day.

Sept. 01

- mobilized to Gowganda

Sept. 02

- got Yamaha stuck, broke winch cable, need argo, performed trail maintenance to get Yamaha out of trail and drove to Timmins, dropped Yamaha off to get winch cable fixed, left it at All Terrain, picked up argo and drove back to Gowganda.

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Sept. 03

- marked and gpsd MC10-13&14 found on Aug.24. 0502593, 5249349
- N or H casing, both holes capped, 13 az 360, -50 14 az 360,-60, no tags, in swamp
- L101E/10100n picket at 0502591,5249300
- GPS tip of old picket previously found, L0/100w 0502450,5249319
- Looked for MC03-11, new GPS co-ords put on road approx 5m south of where we stashed the paint and pickets the first day. Used the mag but could not locate.
- Marked and GPS M06-32, and mystery hole 01-07 prev. located, 0502576,5249447
- M06-32, az 180deg, -45 Note: spreadsheet says az 360 must be typo????
- 01-07 az 180deg, -55
- Both NQ ? Casing, no tags but gps is on with the spreadsheet wp
- Holes are at 10075e/10225n on 2013 grid
- Fuel delivery issue with Argo. Switched back to the Yamaha Side by Side and also rented a Polaris 500.

Sept. 04

- Marked and GPSs MC03-10 0502559,5249495
- No tags, NQ casing is loose in the ground, can move it, appears to be az360 not 062deg
- Main trench cor-ords NE corner 0502538,5249388
- NW corner 0502528,5249396
- South end of trench 0502555,5249351 (narrows in here)
- Looked for M06-33, Not Found, should have been 40m south of MC10-13&14
- Note: az on spreadsheet says 180 deg. **doesn't seem right**
- Looked for WM-03, Not Found, should have been 5m south of EDS-04-08&09
- Found several 1 ½ inch drill rods on ground but no casing, used mag, no luck, probably
- Destroyed by EDS set-ups.
- Looked for WM-11 with mag, Not Found
- Old Picket L100e/1050n, utms in old GPS in Rhino in bush, forgot to write down will get when in for the bike

Sept. 05

- Marked and GPSd MC03-05, utm's in old GPS as above, but can use spreadsheet co-ords, they are close cant miss the 2x2.
- Hole is tagged MC03-0 (missing the 5) but confident it is the right one.
- Az of casing is 032 deg not 062 deg as per spreadsheet but used mag to trace down dip and the az is 062 deg. The casing has been moved.
- Found, marked and GPSd MC03-04 0502533,5249257
- On the road, casing flat on ground, needed mag to find it but in right location.
- No tag found
- Found, marked and GPSd MC03-06 0502565,5249219
- Az 062 -45, N casing, right on with spsheet utms, metal tag

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Sept. 06

- Found, marked and GPSd MC06-28 0502546,5249,212
- Az 332 -45, metal tag, N casing
- Found, marked and GPSd WM-07 0502540,5249310
- No tag, az 360 deg, -59
- On side of a hill, very overgrown trees and veg. no vis road in to it
- Put flagging on atv/drill trail indicating direction to the hole
- Found, marked and GPSd MC03-07 0502527,5249195
- Az 062 deg, -45 metal tag
- Found, marked and GPSd M06-29&30 0502564,5249167
- M06-29: az 350 deg, -45
- M06-30: az 028 deg, -45

Sept. 07

- Found, marked and GPSd M06-31 0502535,5249132
- Az 360 deg. -45, tagged
- Old Picket L25+50E/91+25N ns line 0502542,5249130
- Old Picket L26e/91+75n ns line 0502590,5249142
- 2013 grid L90e/9620n = road ns line 0501477,5248810
- 2013 grid L91e/9650n = road ns line 0501594,5248863
- 2013 grid L94e/9775n = road ns line 0501910,5248985
- 2013 grid L96e/9725 = road ns line 0502107,5248922
- Looked for WM-09, Not Found, in swamp, got stuck wouldn't bring atv in
- Looked for MC03-09, Not Found, in swamp, same as above
- Looked for WM-08, Not found, chained from M06-32, in swampy area on or near road but couldn't locate, swept with mag, no luck.
- Found, marked and GPSd MC03-08 0502670,5249274
- Az 062 deg, -45 on old ew picket line

Sept. 08

- GPSd a ddh spot picket marked MC10-09, az 360 deg -55 but no hole. We found this first time up but didn't gps. 0502560, 5249312, this hole was drilled and found quite far to the west. The picket is a few meters south of the south end of the main trench.
- Found 3 different grids crossing each other in vicinity of MC03-08 above, as follows:
 - 2013 grid ns line L102e/10100n 0502694,5249300
 - Old ew line at same location above, L93N/29E tag hard to read.
 - Old grid not far from above az 060 deg. L1+50e/100s, 0502693,5249293
 - All 3 grids quite visible, up on high ground with grape sized blueberries.
- Found, marked and GPSd WM-04 0502623,5249172
- az of hole is 072 deg, -50deg, not 360 deg as per spreadsheet. Casing has not moved, traced down dip with the mag??? It is at bottom of outcrop ridge, grown in, found drill trail in to it after the fact but grown in also. Found hole by chaining from M06-29/30 and gps co-ords.
- 2013 grid L98e/10050n 0502283,5249251
- Demobilized and travelled back to North Bay.

Ray Meikle & Associates

Crew: Ray Meikle

Rob Matthew

- Found, marked and GPSd MC03-08 0502670,5249274
- Az 062 deg, -45 on old ew picket line


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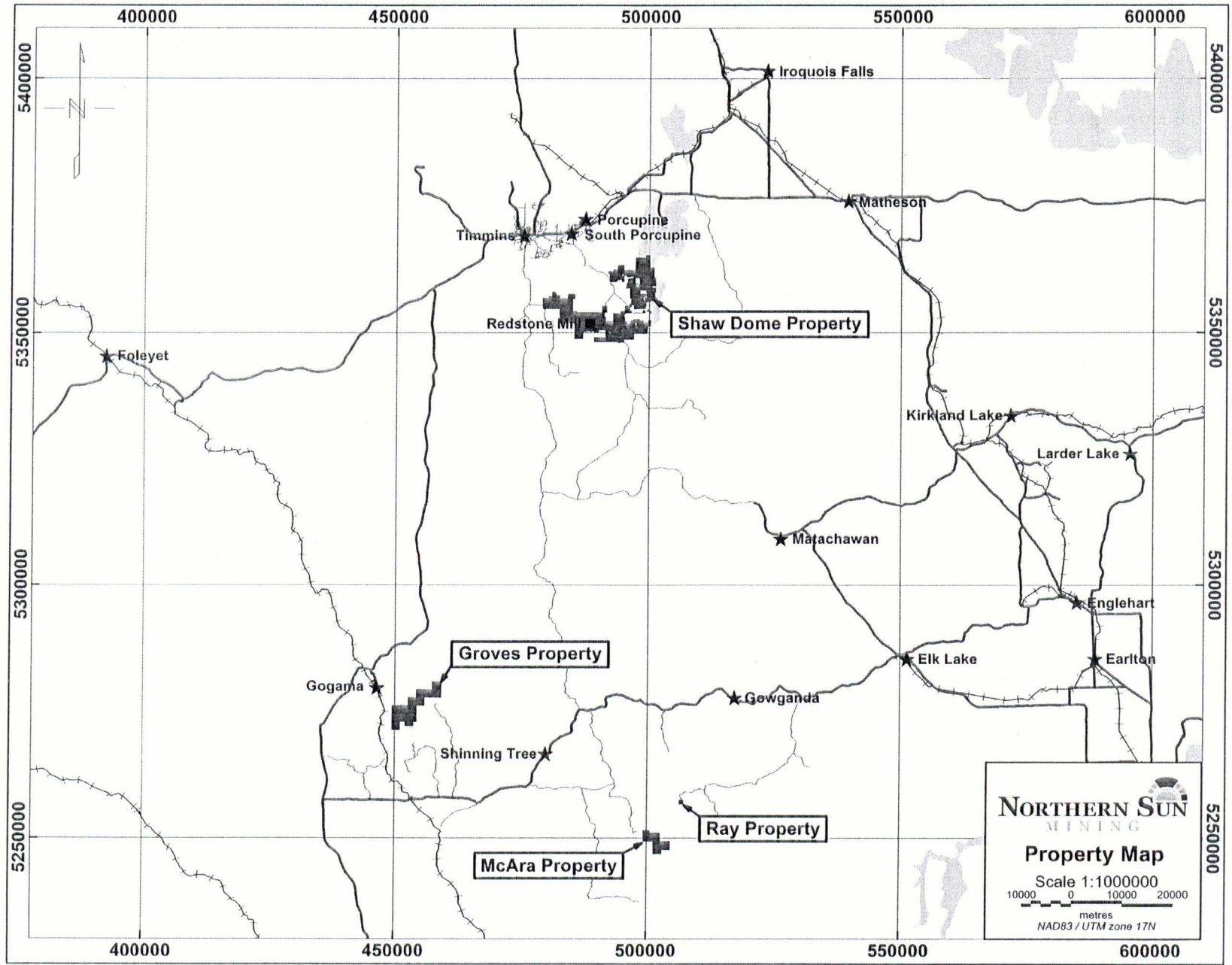
Ray Meikle & Associates

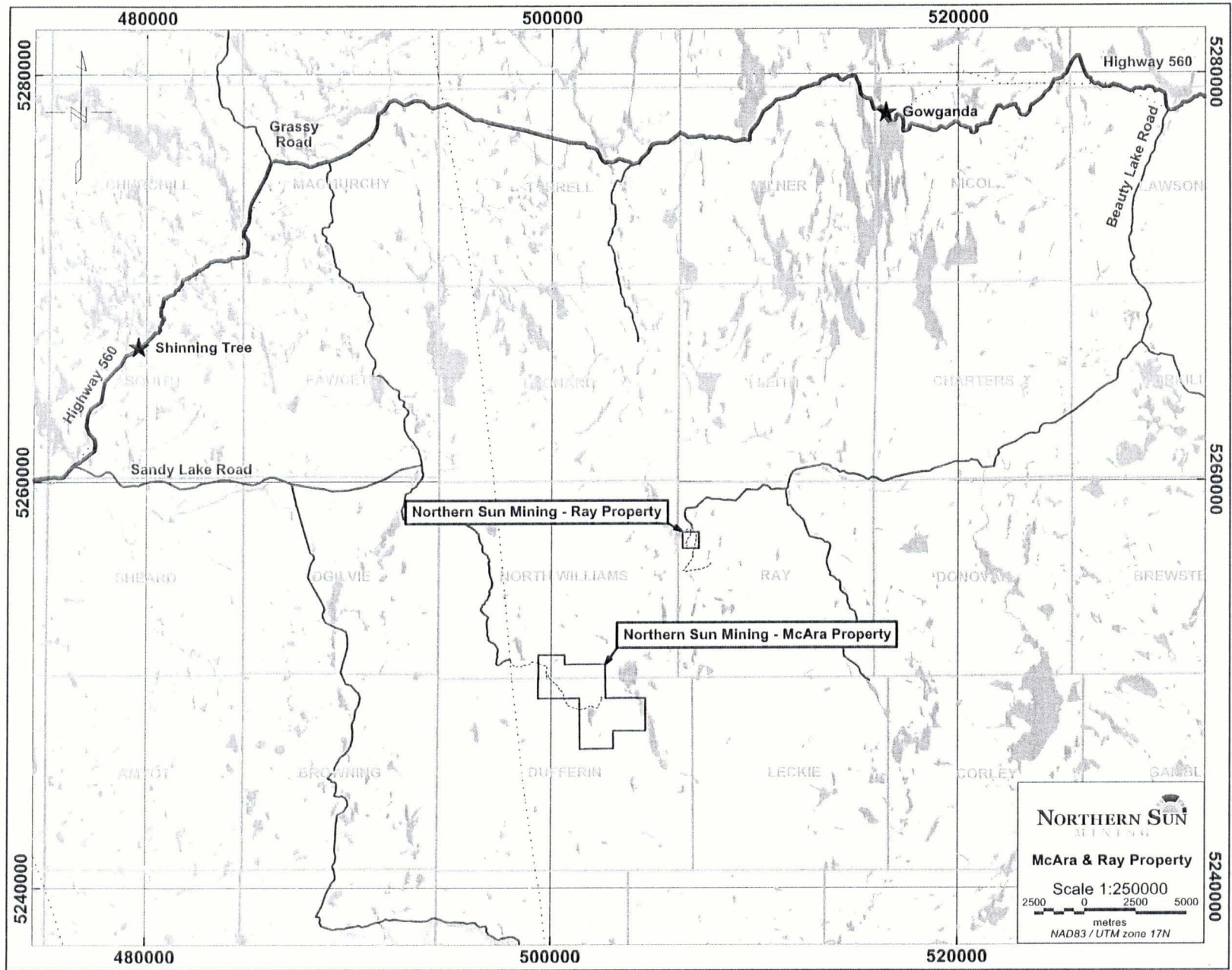
Crew: Ray Meikle

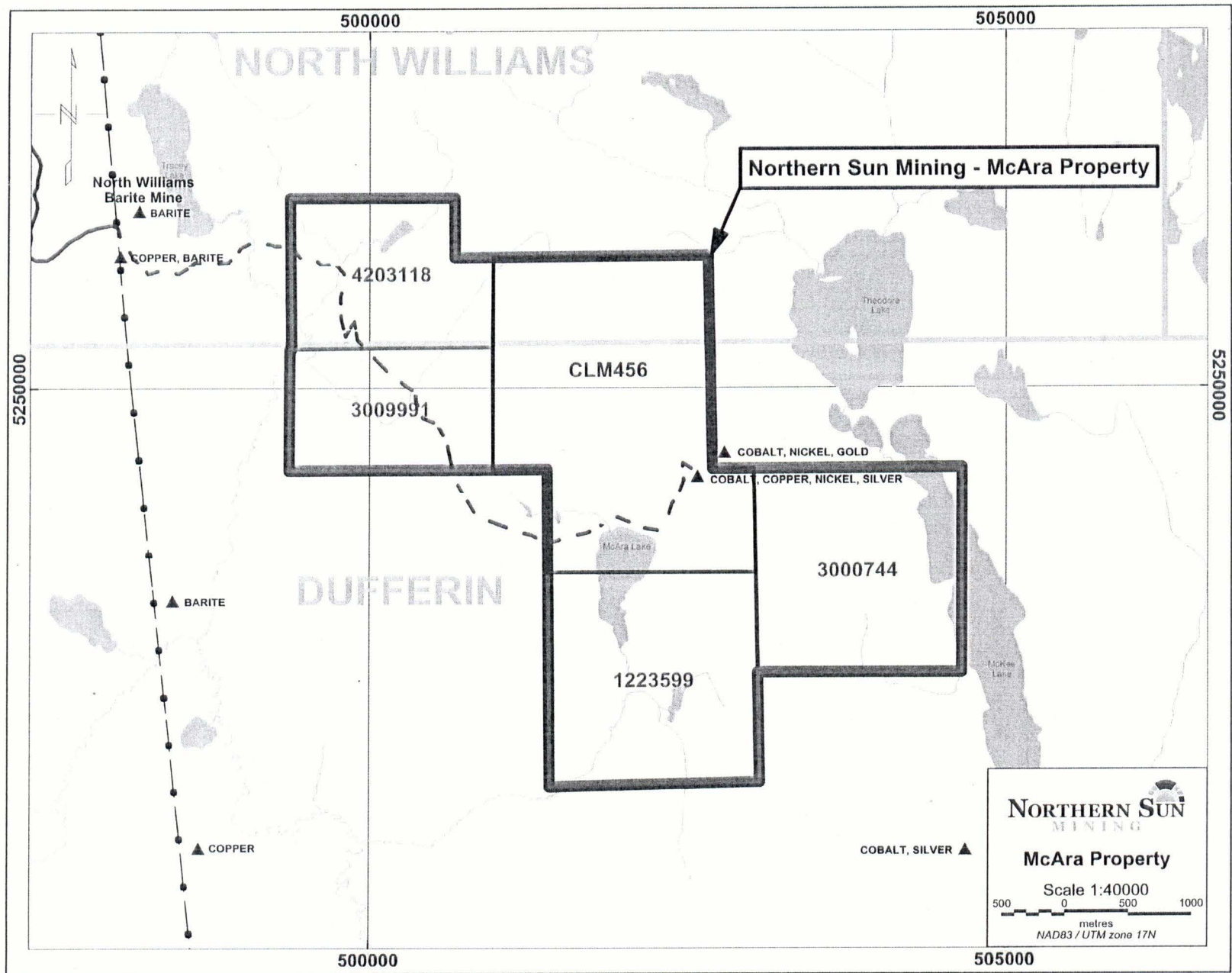
Rob Matthew

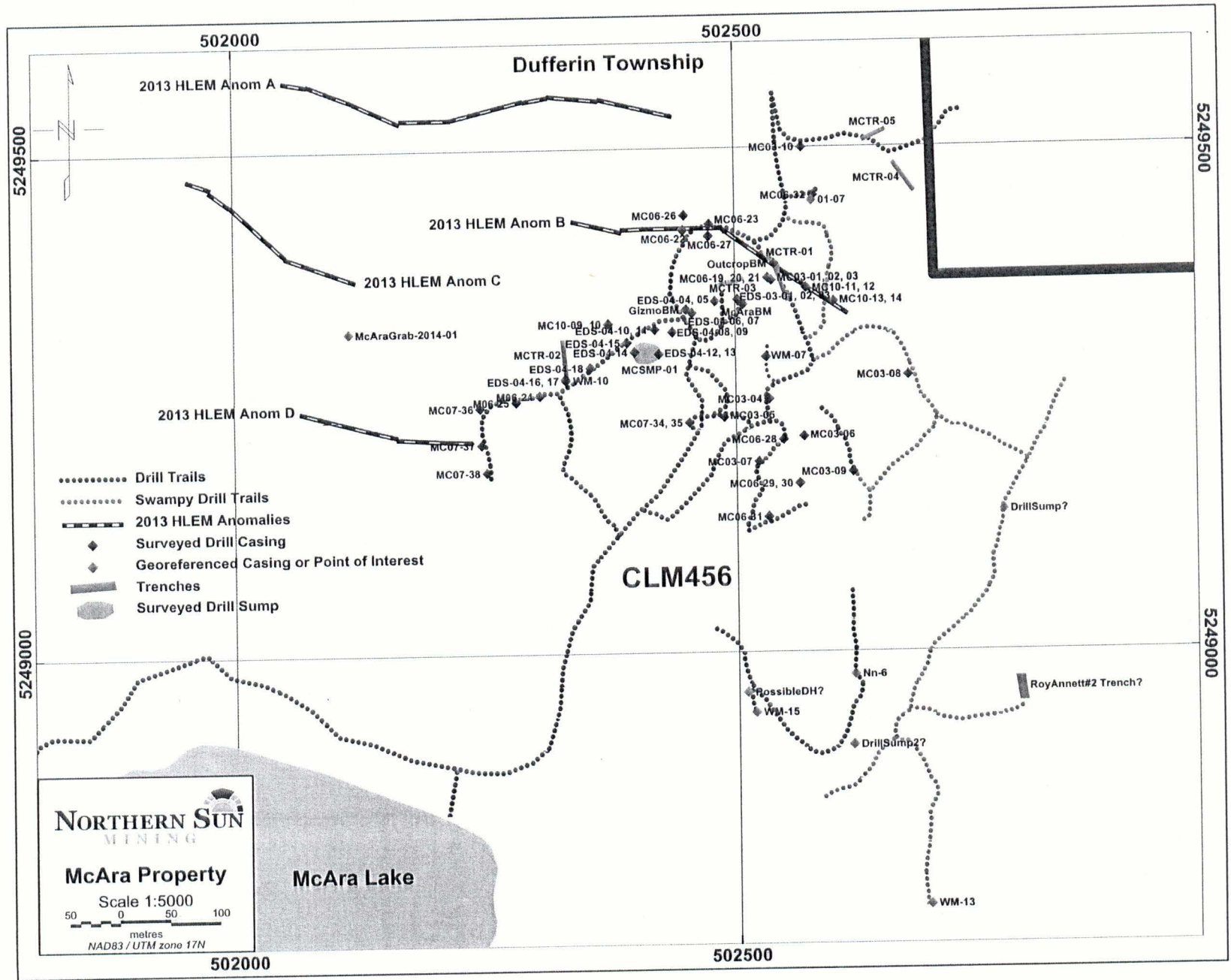

R.J. MEIKLE
FEB 3/2015

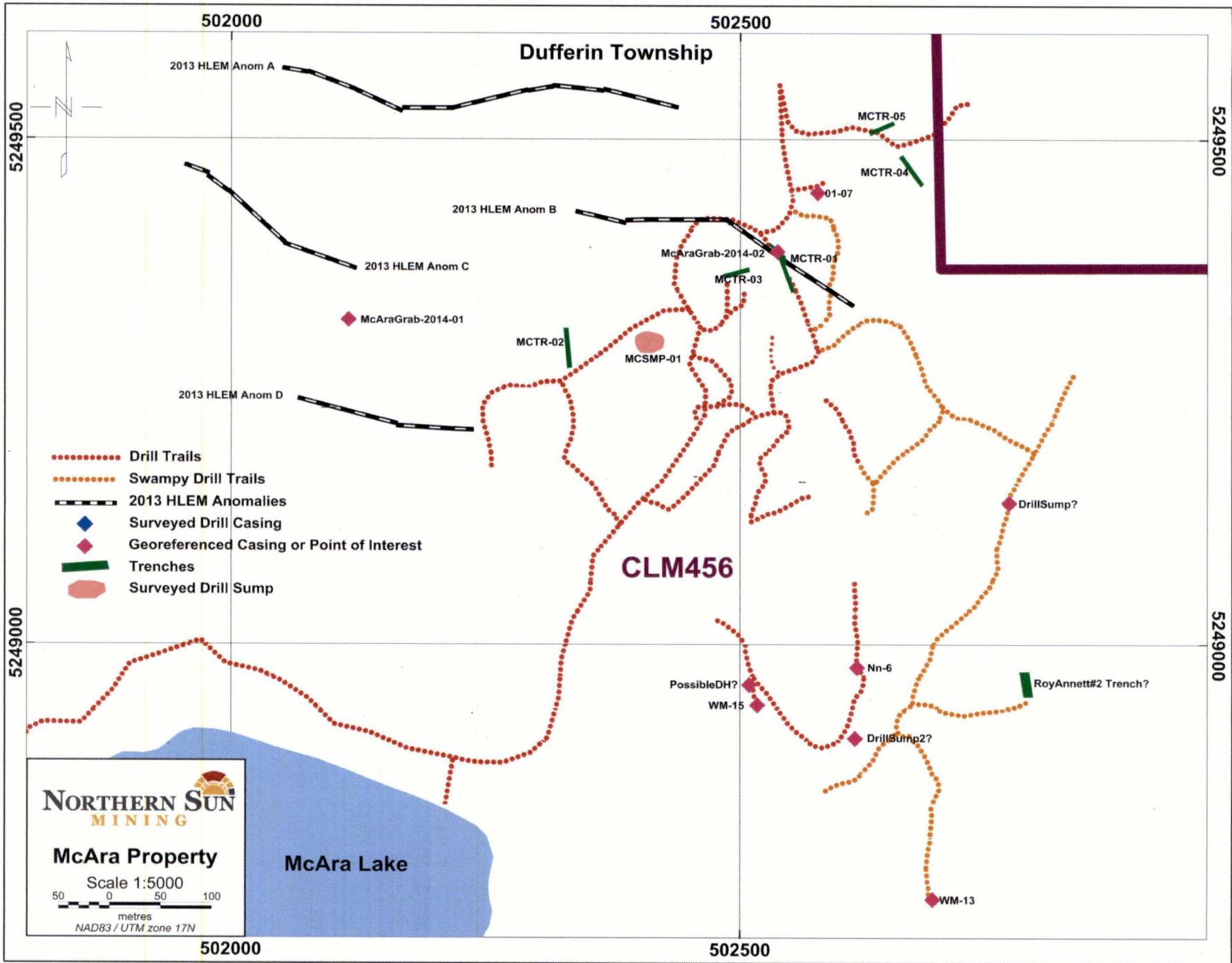
9.0 Appendix A – Property Maps

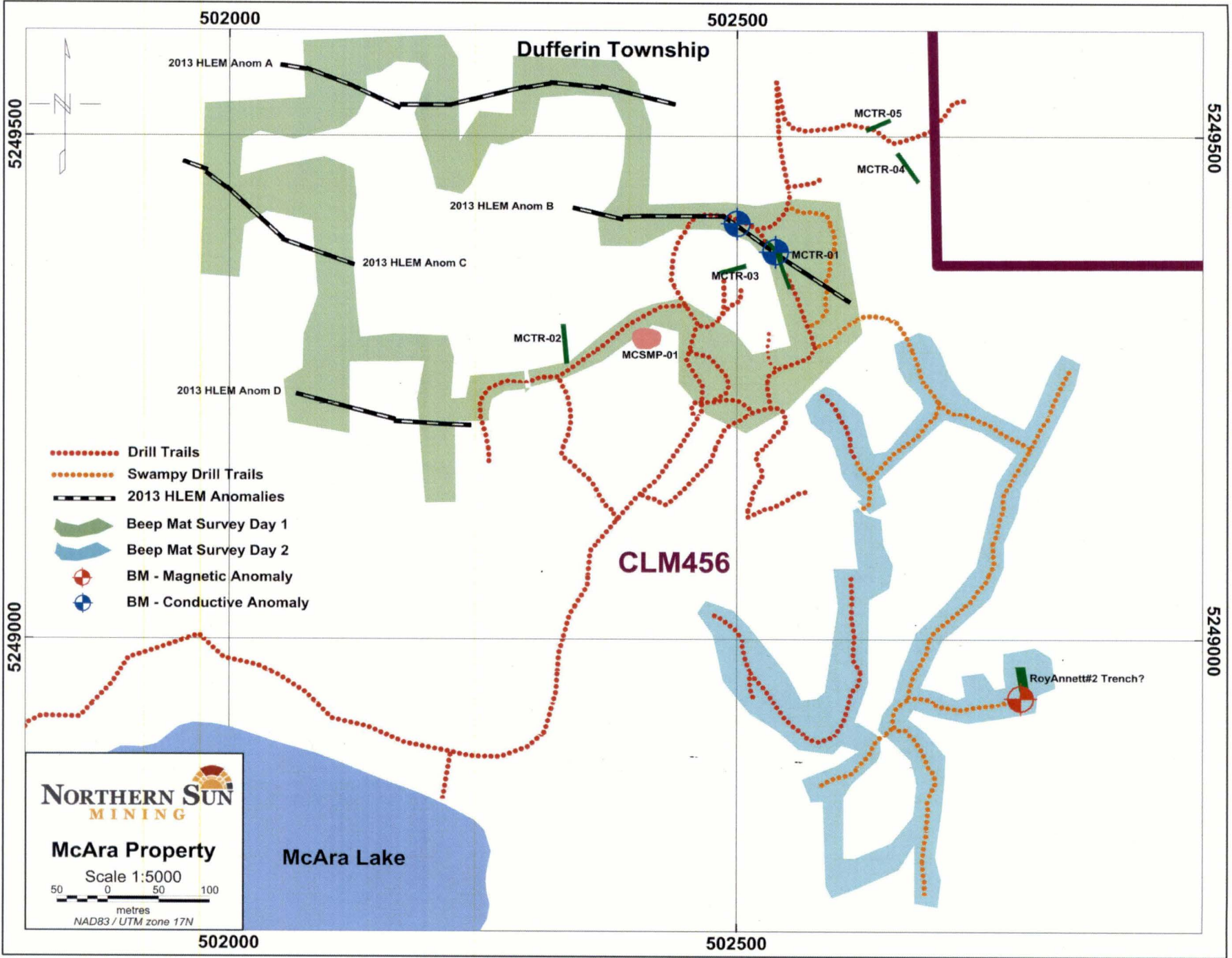


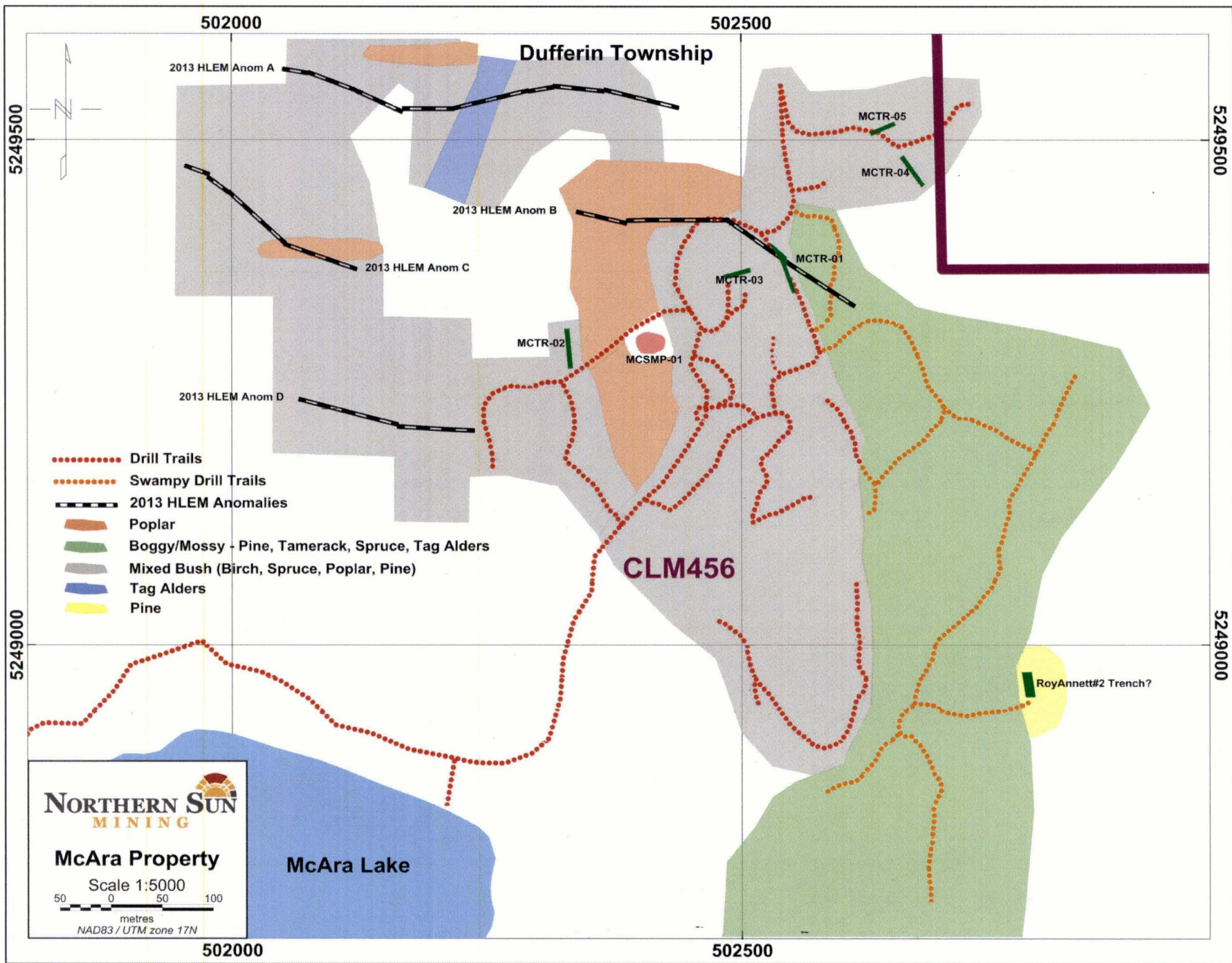












- Drill Trails
- Swampy Drill Trails
- 2013 HLEM Anomalies
- Poplar
- Boggy/Mossy - Pine, Tamerack, Spruce, Tag Alders
- Mixed Bush (Birch, Spruce, Poplar, Pine)
- Tag Alders
- Pine