

NORTH AMERICAN PALLADIUM LTD. LAC DES ILES MINES LTD.

REPORT ON SURFACE DIAMOND DRILLING

ROARING RIVER PROPERTY

NTS 52H/12

NORTHWESTERN ONTARIO

THUNDER BAY, ONTARIO August 12, 2004 DON HEEREMA EXPLORATION GEOLOGIST



52H12NW2007 2.28328

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SUMMARY

In April, 2003 North American Palladium Ltd. entered into an option and joint venture agreement with Lithic Resources Ltd. on the Roaring River Property. North American Palladium Ltd. ("NAP") conducted work on the property in summer and fall of 2003 and implemented a surface diamond drilling program in April and May of 2004. A total of 528m of drilling was completed with five (5) drillholes on both the northern and southern portions of the grid as a follow-up on the IP survey done in April 2004. The IP survey resulted in anomalies that were used as targets for potential mineralized mafic to ultramafic rocks. Drilling resulted in thick massive magnetite-rich diabase sills. Only 2 holes on the southern grid intersected melanogabbro with little sulfide mineralization. Of the 528m of drilling, 102m was melanogabbro-gabbro drilled beneath the diabase.

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1.0 INTRODUCTION

In April, 2004 an IP survey on the Roaring River Property was done on selected portions of the grid thought to be in up-ice direction from the boulder showings on the property. Readings were taken at 25m intervals using a 1-6 separation dipole-dipole array. Drill targets were generated analyzing both IP and magnetic anomalies. Drilling of the Roaring River Property in late April and early May of 2004 consisted of 5 holes totaling 528m. Of the 5 holes, two were drilled on the northern portion of the grid and three on the southern grid, separated by Highway 811 (Garden Lake Rd.). A total of 83 samples were taken from the drill core, split then sent to Accurassay for analysis.

2.0 LOCATION AND ACCESS

The Roaring River Property (NTS 52H/12 NAD 83 zone 16) is located approximately 145km north of Thunder Bay, Ontario and 60km north of the Lac Des Iles Mine, within the Garden Lake and Gillard Lake areas (Figure 1). Access from Thunder Bay is ~120km north up Highway 527 where Highway 811 (Garden Lake Rd.) branches off to the west. Proceed for 55km west on the gravel Hwy 811 to the point where the Roaring River Property grid is cross-cut by this Highway, creating the northern and southern portions of the grid. The southern grid is accessible by quad or foot on an old cutting road traveling SW through the property. Access to the northern grid is by foot up the baseline or by boat on Bilky Lake to the west and Roaring River on the east of the property.

3.0 CLAIM HOLDINGS AND PROPERTY DISPOSITION

Lac Des Iles Mines Ltd ("LDI") owned by North American Palladium Ltd. ("NAP") entered into an option and joint venture agreement with Lithic Resources Ltd., formerly known as Berland Resources Ltd., on the Roaring River Property in April, 2003.

The Roaring River Property consists of twenty-five (25) contiguous unpatented claims totaling 332 units with two-thirds of the claims north of Highway 811. (Figure 2)

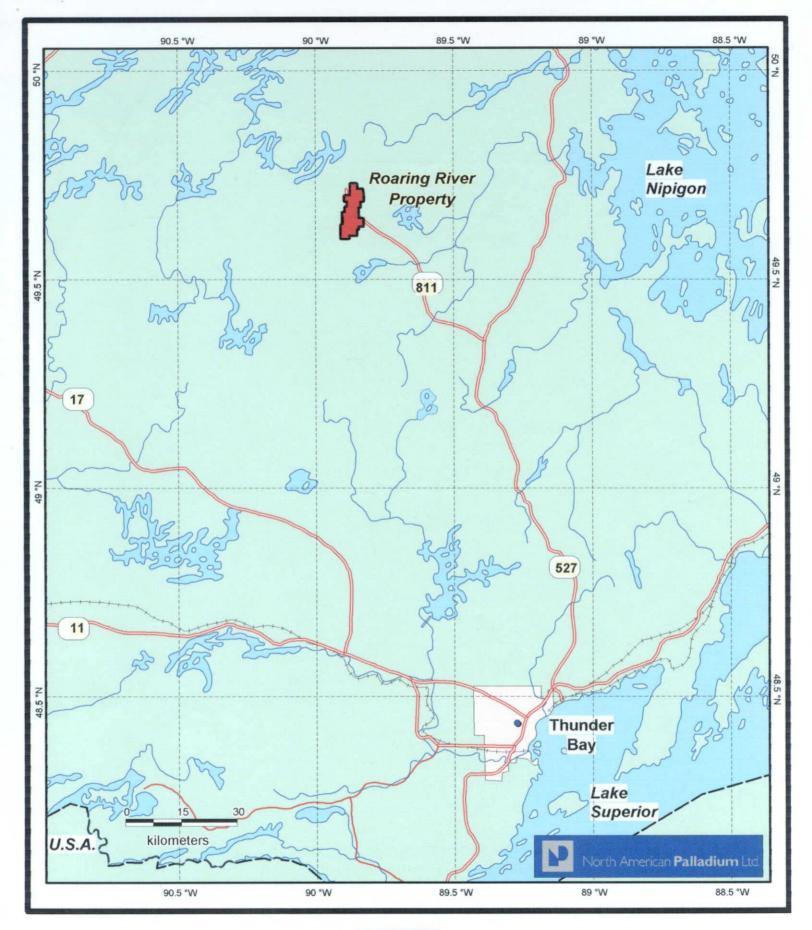
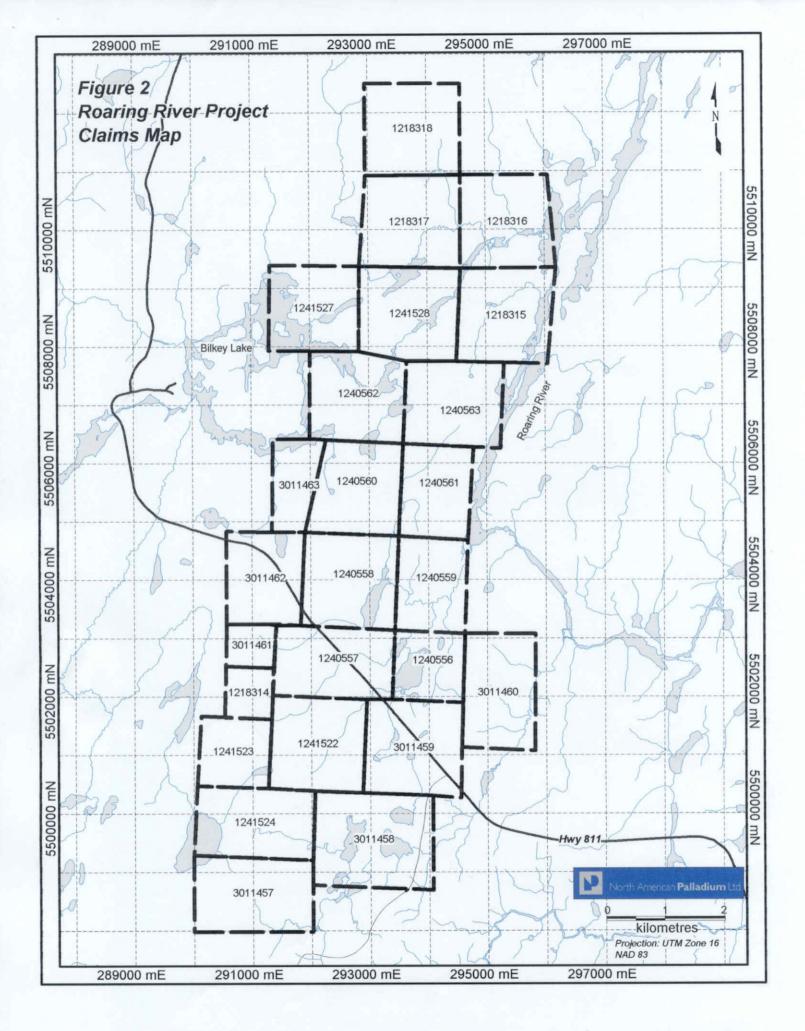


Figure 1 LOCATION MAP - ROARING RIVER PROPERTY



Claim Number	Unit Size	Recording Date	Due Date
1241522	16	December 5, 2000	December 5, 2004
1241523	9	December 5, 2000	December 5, 2004
1241524	15	December 5, 2000	December 5, 2004
1241527	15	January 5, 2001	January 5, 2005
1241528	16	January 5, 2001	January 5, 2005
3011457	15	January 16, 2003	January 16, 2005
3011458	16	January 16, 2003	January 16, 2005
3011459	16	January 16, 2003	January 16, 2005
3011460	15	January 16, 2003	January 16, 2005
3011461	4	January 16, 2003	January 16, 2005
3011462	12	January 16, 2003	January 16, 2005
3011463	8	January 16, 2003	January 16, 2005
1240556	9	March 24, 2000	March 24, 2005
1240557	15	March 24, 2000	March 24, 2005
1240558	16	March 24, 2000	March 24, 2005
1240559	12	March 24, 2000	March 24, 2005
1240560	15	March 24, 2000	March 24, 2005
1240561	12	March 24, 2000	March 24, 2005
1240562	16	March 24, 2000	March 24, 2005
1240563	12	March 24, 2000	March 24, 2005
1218315	16	April 20, 2001	April 20, 2005
1218316	16	April 20, 2001	April 20, 2005
1218317	16	April 20, 2001	April 20, 2005
1218318	16	April 20, 2001	April 20, 2005
1218314	4	July 13, 2001	July 13, 2005

Table 1: Claim Holdings

4.0 PREVIOUS WORK

Work in the Roaring River area started back in the 1960's when the government conducted a regional mapping project including Roaring River (Milne, 1964). Later work including Roaring River was a paper on "Archean High-Mg Granodiorite: A Derivative of Light Rare Earth Element-enriched Monzodiorite of Mantle Origin (Stern et al, 1989; Stern and Hanson, 1991). In 2000 the OGS released a lake bottom sediment survey (Jackson and Dyer, 2000; OGS, 2000) as well as an airborne geophysical survey (OGS, 2000).

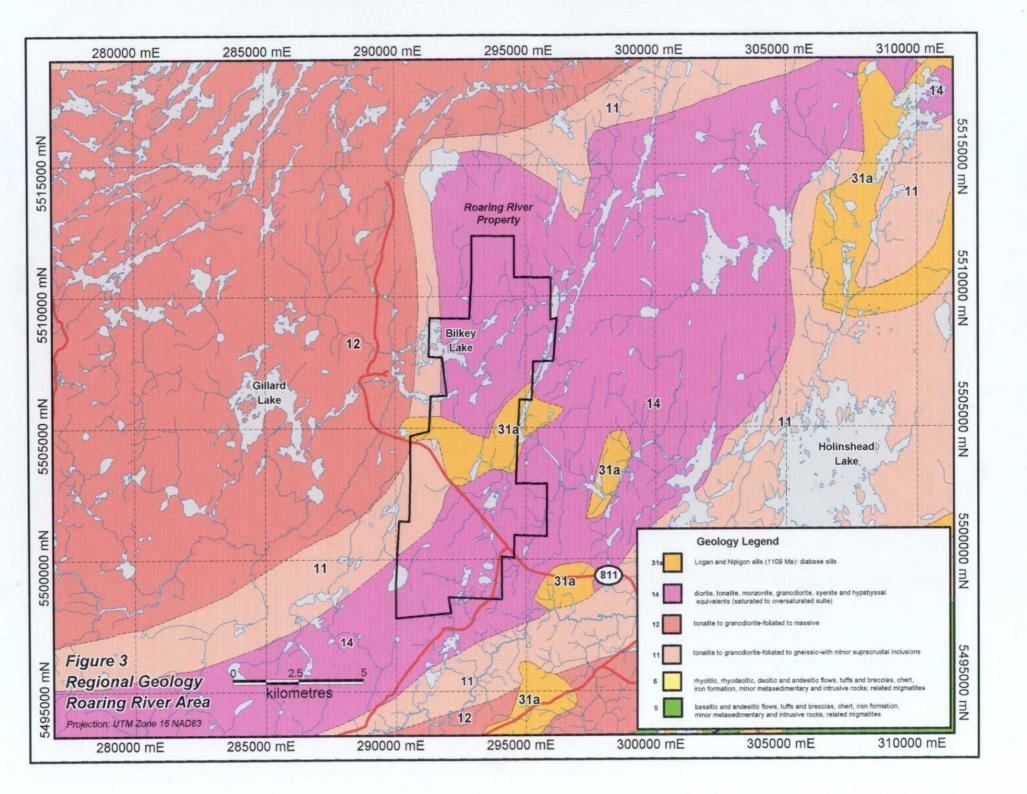
More recent assessment work was filed in 2001 by Berland Resources Ltd. Work done on the Roaring River Property included linecutting, ground geophysics (IP, MAG and HLEM), prospecting, soil sampling, trenching and geological mapping (Fingler and McCrindle, 2001). In December of 2002, a geochemical soil survey was conducted using 390 samples collected in 2001 (Staargaard, 2002). In July, 2003 North American Palladium Ltd. filed a report on an additional 371 soil samples that were collected in 2001 by Berland Resources Ltd.

During the field season of 2003, North American Palladium Ltd. extended the grid to the north and west by 49km (Barr, 2003). In addition, another geochemical soil survey was done in late fall of 2003 that was not filed.

5.0 REGIONAL AND PROPERTY GEOLOGY

The Roaring River Property covers part of the large Roaring River Complex located in the 3.0 - 2.6 Ma Western Wabigoon granite-greenstone terrain of the Archean Superior Province (Fingler and McCrindle, 2001). Bound by the English River and Winnipeg River subprovinces to the north and the Quetico subprovince to the south, the 900x150km Wabigoon subprovince consists of metavolcanics and metasedimentary rocks (Barr, 2003). A detailed study of the \sim 70 x 1-15 km complex by Stern and Hanson (1989) found it to be comprised of fresh, undeformed rocks ranging in composition from diorite to granodiorite belonging to the "sanukitoid" suite. Well foliated tonalites and syenites also exist on the periphery of the intrusion. Within the complex is a 3 x 1.5km mafic/ultramafic body thought to be an inclusion or raft within the sanukitoid suite (Staargaard, 2002). Regional mapping shows that remnant pieces of diabase sill exist in the area as well as on the property. (Figure 3)

The Roaring River property is centered on the mafic/ultramafic portion of the Roaring River Complex. Outcrop occurrence on the property is sparse due to the deep and extensive glacially deposited overburden. Fluvial outwash plains and long sinuous eskers cover a majority of the property mainly to the east. On the west and northern portions of the property diabase and local magnetite-rich gabbros are fairly abundant. The diabase outcrops are extensive, fine to medium-grained, flat lying, massive sill remnants with considerable thickness, with evidence from the drilling. The magnetiterich gabbros which occur in outcrop around Highway 811 are medium-grained and equigranular. The gabbros in outcrop on the property range from leucogabbro through to melanogabbro and some pyroxenite with little mineralization. The gabbros are mainly coarse-grained to varitextured in nature with local pegmatitc areas. Breccias are found locally as magmatic breccias of gabbro within a melanogabbro to pyroxenite matrix or as injection breccias of surrounding monzonite/granodiorites injecting the gabbros. These injection breccias are at or close to the contacts of the adjacent felsic units of the sanukatoid suite which may be some evidence for the inclusion theory. This injection breccia is found in the L102N showing, one of two (2) showings in outcrop. Other showings include the Mere, Leigh, Leigh South, Leigh North, L116N and L118N. All but the Mere showing are mineralized coarse-grained to varitextured, subangular gabbro boulders ranging in size from 0.3 to <5m. Mineralization within the showings consists of pyrite and pyrrhotite with local concentrations of chalcopyrite and pentlandite (Barr, 2003). Sulphide mineralization occurs as intercumulate blebs, anywhere from 1-10%. Anomalous precious and base metal values were attained at all of these showings.



6.0 INDUCED POLARIZATION SURVEY

In April of 2004, Geosig Inc. was contracted by North American Palladium Ltd. to conduct an induced polarization (IP) survey on the Roaring River Property. Using a 1-6 separation dipole-dipole array, 29.6 km of grid was surveyed at 25m stations to try find mineralization similar to that of the Leigh Showing. In doing so, selective portions of the grid in an up-ice direction of the boulder showings were chosen for the survey, along with areas of soil sampling anomalies. (Map 1) Attached is a full work report on the Roaring River IP survey written by Simon Tshimbalanga of Geosig Inc. June 2004.

7.0 DIAMOND DRILLING PROGRAM

The Roaring River drilling program, done by Chibougamau Diamond Drilling included five (5) holes. The holes were a follow-up of magnetic and IP anomalies planned to find mineralized mafic to ultramafic rocks that might have been the source of the Leigh and Leigh South boulder showings. Holes RR04-001 and RR04-002 were drilled north of Highway 811, while holes RR04-003, RR04-004 and RR04-005 were drilled on the southern grid, for a total of 528m of drilling. Drill site locations were limited due to poor terrain and inaccesability. (Map 1)

The first hole (RR04-001) was drilled at 115° azimuth (parallel to gridline) and -45° dip (292733.3E, 5504203.2N) to a depth of 141m. The hole was drilled based on a magnetic high and a moderate to strong IP response. The hole was drilling into a topographic low (swamp). The entire 141m of this hole intersected only magnetite-rich diabase.

The second hole (RR04-002) was drilled at 115° azimuth at a dip of -45° (293262.4E, 5504604.8N) to a depth of 102m. The geophysical response here was a small magnetic low with a weak to moderate IP anomaly at the edge of an extensive portion of low swampy terrain. Again, the entire 102m intersected diabase.

Hole three (RR04-003) was drilled on the southern grid at 115° azimuth and 45° dip (291595.9E, 5501199.5N) to 126m. The hole was testing a magnetic high with a strong IP anomaly. The hole intersected melanogabbro at a depth of ~53m capped again by diabase. Drilling took place on very high ground.

The fourth hole (RR04-004) was drilled at 115° azimuth and -45° dip (291754.8E, 5501126.0N) to 9m. The drill was stepped ahead on the same gridline to drill the same magnetic high and IP response as hole RR04-003. The drilling resulted in diabase again and was shut-down.

The last hole (RR04-005) was drilled at 115° azimuth and -45° dip (291832.8E, 5500964.6N) to a depth of 150m. The drill was moved downhill to the edge of a large swamp, north of the Leigh Showing with a magnetic low and no IP response. Drilling here resulted in 120.5m of diabase that is capping the underlying melanogabbro.

Table 2: Drill Collar Data

Hole Number	Grid Northing	Grid Easting	UTM Easting	UTM Northing	Azimuth	Dip	Length
RR04-001	116+00	90+40	292733.3	5504203.2	115°	45°	141m
RR04-002	122+00	93+50	293262.4	5504604.8	115°	45°	102m
RR04-003	84+06	92+90	291595.9	5501199.5	115°	45°	126m
RR04-004	84+07	94+60	291754.8	5501126	115°	45°	9m
RR04-005	83+00	96+05	291832.8	5500964.6	115°	45°	150m

8.0 CONCLUSIONS

From the drilling results of this five (5) hole drill program, it appears that the remnant pieces of diabase sill are thicker and more extensive than first thought. Also, within the diabase are local sections of 2-3mm magnetite blebs which are likely the cause of the magnetic highs and possibly the stronger IP anomalies. Serpentine alteration within fracture zones of the diabase likely contributed in causing the IP anomalies. diabase was drilled in magnetic highs (holes RR04-001, RR04-002, RR04-003 and RR04-004) as well as in relative magnetic lows (RR04-005), which may or may not be a reflection of the diabase at all. It might be beneficial to have a geophysicist analyse the geophysical data to produce a more detailed interpretation of the anomalies.

The underlying melanogabbros in holes RR04-003 and RR04-005 are a fairly equigranular, moderately altered and not likely to cause any IP response. Sulfide mineralization is found in trace quantities as mainly pyrite in hole RR04-003 and chalcopyrite + pyrrhotite in hole RR04-005. Magnetism within these gabbros is moderate and pervasive. Assays resulted in no anomalous precious metal values and low base metal values. The Diabase appears to contain slightly higher PGE values than the underlying Gabbros.

Drilling on the property did not find a possible source for any of the boulder showings that contain anomalous PGE and base metal values and blebby sulfides. The drilling intersected diabase in every hole drilled. However, the drilling was conducted on more of the west to central portions of the property. Drilling on the eastern side of the property was restricted by extensive swamps, creeks and rivers. No access was available to get the drill into this area. Low topography does not necessarily represent windows in the Diabase sill, as three (3) holes drilled into areas of low ground, resulting in thick massive Diabase. Further exploration of the east side should be considered.

The large circular magnetic feature to the north of the grid within the claim boundary should be explored more seriously and a follow-up to the lake sediment anomalies north, north-east of the claims could possibly warrant exploration. These areas are anomalous in Cu, Mo and Ag.

9.0 REFERENCES

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- Jackson, J.E. and Dyer, R.D. 2000. Garden-Obonga Lake area high density lake sediment and water geochemical survey, northwestern Ontario; Ontario Geological Survey, Open File Report 6009, 107p.
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- Staargaard, C.F. 2002. Geochemical Soil Survey on the Roaring River Property, Thunder Bay District, Ontario, assessment report 2.25849.
- Stern, R.A. and Hanson, G.N. 1991. Archean High-Mg Granodiorite: A Derivative of Light Rare Earth Element-enriched Monzodiorite of Mantle Origin; Journal of Petrology, Vol 32, Part 1. pp. 201-238.

Appendix I

North American Palladium Ltd. Personnel included in 2004 Report

Don Heerema Paul Neilson Geologist, author of report Geologist, author of maps & sections

Appendix II

STATEMENT OF QUALIFICATIONS

I, Don Heerema, hereby certify that:

- I am a practicing geologist with North American Palladium Ltd. in Thunder 1. Bay, Ontario and reside at 459 Parkwood St., Thunder Bay, Ontario
- I am a graduate of Lakehead University with an HBSc degree in Geology, 2002. 2.
- 3. I am a Canadian Citizen.
- 4. I have practiced my profession full-time since 2002 and seasonally since 1999.
- 5. I do not have, nor to I expect to receive, directly or indirectly, any interest in the properties of North American Palladium Ltd.

Signature:

Aug. 12, 2054

Date:

Appendix III

Expenditures for 2004:

IP survey	
29.6 km @ \$1100.00/km	\$32,560.00
Mobilization and Demobilization	\$ 6,000.00
Drilling 528m @~\$135.00/m	\$71,874.18
Assays	\$ 2,079.00
Vehicle	\$ 550.00
Gas	\$ 240.00
Accomodations	
Minesite @ \$23.85/day x 8 days	\$ 190.80
Geological report writing, logging, etc Geologists: 12 days @ \$300/day	\$ 3,600.00
Geologisis. 12 days (g \$500/day	<u> </u>

Total

\$117,094.98

Appendix IV

2004 Roaring River Drill Logs

Appendix V

Assay Certificates

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1070 LITHIUM DRIVE, UNIT 2 PHONE (807) 626-1630 FAX (807) 623 6820 THUNDER BAY, ONTAI EMAIL accuracy@tbaytel.net

ONTARIO P7B 6G3 tel.net WEB www.accurassay.com

Certificate of Analysis

Friday, May 14, 2004

North American Palladium Ltd.1, Metals Exploration Divis 710 Norah Cr. Thunder Bay, ON, CAN P7C4T8 Ph#: (807) 623-8005 Fax#: (807) 623-8074 Ernail, mmacisaac@napalladium.com

Date Received :	10-May-	2.	283	28
Date Completed.	20044039	98		
Sample #:	18	Core		

Accurassay #		Client Id	Au g/t	Pt g/t	Pd g/t	Rh g/t	Ag ppm	Co %	Cu %	Fe %	Ni %	Pb %	Zn %
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23546		RR04-001-003	0.010	<0.015	0.041			0.0078	0.0218		0.0068		
23547		RR04-001-004	0.006	<0.015	0.033			0.0087	0.0177		0.0109		
23548		RR04-001-005	0.007	0.022	0.035			0.0077	0.0163		0.0106		
23549		RR04-001-006	0.007	<0.015	0.036			0.0084	0.0169		0.0111		
23550		RR04-001-007	0.007	<0.015	0.038			0.0085	0.0176		0.0105		
23551		RR04-001-008	0.015	<0.015	0.062			0.0088	0.0317		0.0062		
23552		RR04-001-009	0.017	<0.015	0.059			0.0086	0.0298		0.0061		
23553		RR04-001-010	0.007	<0.015	0.025			0.0084	0.0286		0.0061		
23554	Check	RR04-001-010	0.008	<0.015	0.033			0.0075	0.0304		0.0055		
23555		RR04-001-011	0.017	0.054	0.052			0.0091	0.0269		0.0083		
23556		RR04-001-012	0.030	<0.015	0.040			0.0061	0.0152		0.0088		
23557		RR04-001-013	0.013	<0.015	0.036			0.0068	0.0163		0.0099		
23558		RR04-001-014	0.006	<0.015	0.034			0.0063	0.0170		0.0089		
23559		RR04-001-015	0.024	<0.015	0.036			0.0070	0.0163		0.0109		
23560		RR04-001-016	<0.005	<0.015	0.047			0.0083	0.0136		0.0125		
23561		RR04-001-017	0.008	0.055	0.030			0.0067	0.0146	÷.	0.0095		
23562		RR04-001-018	0.007	0.030	0.019			0.0069	0.0166		0.0109		

PROCEDURE CODES: ALAAPP, ALACOMA, ALACUMA

ACUMA, ALANIMA 🌖

Page 1 of 1

Certified By Derek Demianiuk H.Bsc., Laboratory Manager The results included on this report relate only to the items tested

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Friday, May 28, 2004

North American Palladium Ltd.1, Metals Exploration Divis 710 Norah Cr. Thunder Bay, ON, CAN P7C4T8	Date Received : 21-Ma Date Completed : 28-Ma Job # 200440 Reference : 10007	y-04 0470	
Ph#: (807) 623-8005 Fax#: (807) 623-8074	Sample #: 10	Core	
Email, mmacisaac@napalladium.com			

A		Client Id	Au	Pt	Pd	Rh	Ag	Co	Cu	Fe %	Ni %	Pb %	Zn %
Accurassay #		Olicitetta	g/t	g/t	g/t	g/t	ppm	%	%	70		70	70
26491		RR04-002-001	0.012	<0.015	0.020			0.0053	0.0149		0.0065		
26492		RR04-002-002	<0.005	<0.015	0.015			0.0049	0.0118		0.0070		
26493		RR04-002-003	<0.005	<0.015	0.015			0.0046	0.0116		0.0070		
26494		RR04-002-004	<0.005	<0.015	0.016			0.0050	0.0132		0.0073		
26495		RR04-002-005	<0.005	<0.015	0.021			0.0050	0.0132		0.0074		
26496		RR04-002-006	<0.005	<0.015	0.025			0.0048	0.0148		0.0066		
26497		RR04-002-007	0.007	0.047	0.037			0.0053	0.0276		0.0035		
26498		RR04-002-008	0.008	0.042	0.039			0.0048	0.0180		0.0046		
26499		RR04-002-009	<0.005	0.029	0.038			0.0057	0.0252		0.0042		
26500		RR04-002-010	<0.005	<0.015	0.019			0.0048	0.0141		0.0070		
26501	Check	RR04-002-010	<0.005	0.019	0.022			0.0051	0.0137		0.0077		

PROCEDURE GODES: ALAAPR. ALACOMA, ALACUMA, ALANIMA Certified By: The Certifica Page 1 of 1

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Derek Demianiuk HLBsc., Laboratory Manager

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Date Received : 14-May-04

Job # 200440424

Reference: 1000706:21132

Date Completed : 20-May-04

Sample #: 53



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Core

Certificate of Analysis

Thursday, May 20, 2004

North American Palladium Ltd.1, Metals Exploration Divis 710 Norah Cr. Thunder Bay, ON, CAN P7C4T8 Ph#: (807) 623-8005 Fax#: (807) 623-8074 Email, mmacisaac@napalladium.com

Pb Zn Co Cu Fe Ni Pt Pd Rh Ag Au **Client Id** % % Accurassav # % % % g/t g/t ppm % g/t g/t 0.0128 0.0093 0.0198 RR04-003-001 0.009 0.017 0.026 24855 0.0083 0.0175 0.0123 < 0.015 0.018 RR04-003-002 0.008 24856 0.0120 0.0078 0.0191 0.009 < 0.015 0.019 RR04-003-003 24857 0.0265 0.0085 0.0070 0.007 < 0.015 < 0.010 RR04-003-004 24858 0.0037 0.0285 0.0093 < 0.010 < 0.015 RR04-003-005 0.005 24859 0.0272 0.0088 0.0037 0.007 < 0.015 <0.010 24860 RR04-003-006 0.0263 0.0095 0.0041 < 0.005 < 0.015 <0.010 RR04-003-007 24861 0.0050 0.0235 0.0093 < 0.005 0.015 < 0.010 RR04-003-008 24862 0.0073 0.0115 0.0141 < 0.015 <0.010 < 0.005 24863 RR04-003-009 0.0149 0.0067 0.0070 0.008 < 0.015 < 0.010 24864 RR04-003-010 0.0169 0.0082 0.0064 0.007 < 0.015 < 0.010 RR04-003-010 24865 Check 0.0167 0.0076 0.0074 RR04-003-011 < 0.005 < 0.015 < 0.010 24866 0.0334 0.034 0.0082 0.0047 < 0.015 < 0.005 24867 RR04-003-012 0.0349 < 0.015 < 0.010 0.0092 0.0071 RR04-003-013 < 0.005 24868 0.0353 0.0082 0.0029 <0.010 RR04-003-014 < 0.005 < 0.015 24869 0.0082 0.0048 0.0306 < 0.015 < 0.010 < 0.005 24870 RR04-003-015 0.0020 0.0015 0.0022 < 0.005 < 0.015 < 0.010 RR04-003-016 24871 0.0021 0.0032 0.0021 < 0.005 < 0.015 < 0.010 RR04-003-017 24872 0.0019 0.0022 0.0018 <0.015 < 0.010 RR04-003-018 < 0.005 24873 0.0017 0.0017 0.0018 < 0.005 < 0.015 <0.010 24874 RR04-003-019 0.0018 0.0017 0.0027 < 0.005 < 0.015 < 0.010 RR04-003-020 24875 0.0016 0.0014 0.0026 < 0.005 < 0.015 <0.010 24876 Check RR04-003-020 0.0019 0.0017 0.0011 < 0.015 < 0.010 < 0.005 RR04-003-021 24877

PROCEDURE CODES: ALAAPP, ALACOMA, ALACUMA, ALANIMA

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Page 1 of 3

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Date Received : 14-May-04

Job # 200440424

Reference : 1000706:21132

Date Completed : 20-May-04

Sample #: 53

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1070 LITHIUM DRIVE, UNIT 2 PHONE (807) 626-1630 FAX (807) 623 6820 THUNDER BAY, ONTARIO P7B 6G3 EMAIL accuracy@tbaytel.net WEB ww

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Core

Certificate of Analysis

Thursday, May 20, 2004

North American Palladium Ltd.1, Metals Exploration Divis 710 Norah Cr. Thunder Bay, ON, CAN P7C4T8 Ph#: (807) 623-8005 Fax#: (807) 623-8074 Email, mmacisaac@napalladium.com

Accurassay #		Client Id	Au g/t	Pt g/t	Pd g/t	Rh g/t	Ag ppm	Co %	Cu %	Fe %	Ni %	Pb %	Zn %
24878		RR04-003-022	<0.005	<0.015	<0.010			0.0081	0.0062		0.0239		
24879		RR04-003-023	<0.005	<0.015	<0.010			0.0079	0.0106		0.0251		
24880		RR04-003-024	<0.005	<0.015	<0.010			0.0087	0.0054		0.0242		
24881		RR04-003-025	<0.005	<0.015	<0.010			0.0077	0.0096		0.0253		
24882		RR04-003-026	<0.005	<0.015	<0.010			0.0059	0.0104		0.0244		
24883		RR04-003-027	<0.005	<0.015	<0.010			0.0066	0.0099		0.0257		
24884		RR04-003-028	<0.005	<0.015	<0.010			0.0 067	0.0051		0.0213		
24885		RR04-003-029	<0.005	0.047	<0.010			0.0058	0.0062		0.0240		
24886		RR04-003-030	<0.005	<0.015	<0.010			0.0056	0.0077		0.0180		
24887	Check	RR04-003-030	<0.005	<0.015	<0.010			0.0058	0.0082		0.0177		
24888		RR04-003-031	<0.005	<0.015	<0.010			0.0070	0.0097		0.0276		
24889		RR04-003-032	0.031	0.055	0.072			0.0083	0.0269		0.0343		
24890		RR04-003-033	<0.005	0.037	0.033			0.0090	0.0073		0.0357		
24891		RR04-003-034	<0.005	0.017	<0.010			0.0101	0.0031		0.0345		
24892		RR04-003-035	<0.005	<0.015	0.013			0.0113	0.0047		0.0444		
24893		RR04-003-036	<0.005	<0.015	0.013			0.0104	0.0023		0.0461		
24894		RR04-003-037	<0.005	<0.015	<0.010			0.0090	0.0051		0.0332		
24895		RR04-003-038	<0.005	<0.015	0.011			0.0110	0.0046		0.0467		
24896		RR04-003-039	<0.005	<0.015	0.016			0.0112	0.0047		0.0494		
24897		RR04-003-040	<0.005	<0.015	<0.010			0.0121	0.0039		0.0518		
24898	Check	RR04-003-040	<0.005	<0.015	<0.010			0.0117	0.0037		0.0539		
24899		RR04-003-041	<0.005	<0.015	<0.010			0.0100	0.0010		0.0393		
24900		RR04-003-042	<0.005	<0.015	<0.010			0.0032	0.0035		0.0030		
				_									

PROCEDURE CODES: ALAAPP, ALACOMA, ALACUMA, ALANIMA

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ONTARIO P7B 6G3 THUNDER BAY, EMAIL accuracy@tbaytel.net

Date Received : 14-May-04

Job # 200440424

Reference : 1000706:21132

Date Completed : 20-May-04

WEB www.accurassay.com

0.0286

0.0353

0.0260

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Thursday, May 20, 2004

24910

24911

24912

North American Palladium Ltd.1, Metals Exploration Divis 710 Norah Cr. Thunder Bay, ON, CAN P7C4T8 Ph#: (807) 623 Fax#: (807) 623 Email, mmacisa

P7C418 Ph#: (807) 623-80 Fax#: (807) 623-80 Email, mmacisaac@	74	lium.com					Sa	ample #	± 53	Co	ore		,
			Au	Pt	Pd	Rh	Ag	Со	Cu	Fe	Ni	Pb	Zn
Accurassay #		Client Id	g/t	g/t	g/t	g/t	ppm	%	%	%	%	%	%
24901		RR04-003-043	<0.005	<0.015	<0.010			0.0032	0.0032		0.0025		
24902		RR04-003-044	<0.005	<0.015	<0.010			0.0096	0.0041		0.0406		
24903		RR04-003-045	<0.005	<0.015	0.034			0.0104	0.0031		0.0369		
24904		RR04-003-046	<0.005	<0.015	<0.010			0.0103	0.0024		0.0409		
24905		RR04-003-047	<0.005	<0.015	<0.010			0.0128	0.0031		0.0518		
24906		RR04-003-048	<0.005	<0.015	<0.010			0.0112	0.0032		0.0457		
24907		RR04-003-049	<0.005	<0.015	<0.010			0.0082	0.0060		0.0301		
24908		RR04-003-050	<0.005	<0.015	<0.010			0.0109	0.0030		0.0438		
24909	Check	RR04-003-050	<0.005	<0.015	<0.010			0.0113	0.0032		0.0431		

<0.005 <0.015 <0.010

<0.005 <0.015 <0.010

< 0.005

<0.015 <0.010

PROCEDURE CODES: ALTAPP, ALACOMA, ALACUMA, ALANIMA

RR04-003-051

RR04-003-052

RR04-003-053

Certified By: Derek Demianluk H.Bsc., Laboratory Manager

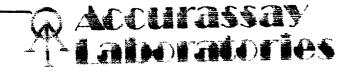
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0.0096 0.0040

0.0112 0.0026

0.0101 0.0039



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Thursday, May 20, 2004

North American Palladium Ltd.1, Metals Exploration Divis 710 Norah Cr. Thunder Bay, ON, CAN P7C4T8 Ph#: (807) 623-8005 Fax#: (807) 623-8074 Email, mmacisaac@napalladium.com

Date Received : 14-May-04 Date Completed : 20-May-04 Job # 200440423 Reference: 1000707:21132 Sample #: 24 Core

Accurassay #	Client Id	Au	Pt g/t	Pd g/t	Rh g/t	Ag ppm	Co %	Cu %	Fe %	Ni %	Pb %	Zn %
24829	RR04-005-001	g/t <0.005	<0.015	0.013	gri	PP	0.0084	0.0195		0.0119		
24830	RR04-005-002	<0.005	<0.015	0.014			0.0080	0.0184		0.0121		
24831	RR04-005-003	<0.005	<0.015	<0.010			0.0094	0.0170		0.0432		
24832	RR04-005-004	<0.005	<0.015	<0.010			0.0088	0.0140		0.0468		
24833	RR04-005-005	<0.005	<0.015	<0.010			0.0090	0.0133		0.0457		
24834	RR04-005-006	<0.005	<0.015	<0.010			0.0081	0.0282		0.0600		
24835	RR04-005-007	<0.005	<0.015	<0.010			0.0095			0.0555		
24836	RR04-005-008	<0.005	<0.015	<0.010			0.0087			0.0578		
24837	RR04-005-009	0.007	<0.015	<0.010				0.0207		0.0554		
24838	RR04-005-010	0.012	<0.015	<0.010			0.0081			0.0448		
24839 Check	RR04-005-010	0.015	<0.015	0.013				0.0122		0.0474		
24840	RR04-005-011	0.012	<0.015	<0.010				0.0323		0.0102		
24841	RR04-005-012	0.338	0.336	3.018				0.1079		0.1247		
24842	RR04-005-013	0.037	<0.015	<0.010				0.0107		0.0428		
24843	RR04-005-014	0.013	<0.015	<0.010				0.0281		0.0591		
24844	RR04-005-015	<0.005	<0.015	<0.010			0.0090			0.0667		
24845	RR04-005-016	0.005	0.018	0.013			0.0079			0.0562		
24846	RR04-005-017	<0.005	<0.015	<0.010			0.0079		:	0.0427		
24847	RR04-005-018	<0.005	<0.015	<0.010			0.0087			0.0475		
24848	RR04-005-019	<0.005	<0.015	<0.010			0.0079			0.0464		
24849	RR04-005-020	<0.005	<0.015	<0.010			0.0073			0.0333		
24850 Check	RR04-005-020	<0.005	0.019	<0.010				0.0105		0.0333		
24851	RR04-005-021	0.006	<0.015	<0.010			0.0083	0.0119		0.0451		

PROCEDURE GODES: ACUMA, ALANIM CoMA

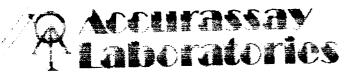
Page 1 of 2

Derek Demianiuk H.Bsc., Laboratory Manager

Certified By:

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2.28328

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THUNDER BAY, EMAIL accuracy@tbaytel.net

ONTARIO P7B 6G3 WEB www.accurassay.com

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Thursday, May 20, 2004

Date Received : 14-May-04 Date Completed : 20-May-04 Job # 200440423 Reference : 1000707:21132 Sample #: 24 Core

North American Palladium Ltd.1, Metals Exploration Divis 710 Norah Cr. Thunder Bay, ON, CAN P7C4T8 Ph#: (807) 623-8005 Fax#: (807) 623-8074 Email, mmacisaac@napalladium.com

A	Client Id	Au	Pt	Pd	Rh	Ag	Co	Cu	Fe %	Ni %	Pb %	Zn %
Accurassay #	Client lu	g/t	g/t	g/t	g/t	ppm	%	%	70		70	70
24852	RR04-005-022	<0.005	<0.015	<0.010			0.0082	0.0083		0.0451		
24853	RR04-005-023	0.016	<0.015	<0.010			0.0069	0.0069		0.0369		
24854	RR04-005-024	<0.005	<0.015	<0.010			0.0062	0.0067		0.0359		

PROCEDURE CODES: ALAAPR, ALACOMA, ALAGUMA, ALANIMA

Certified By: Derek Demianiuk H.Bsc., Laboratory Manager

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2.28328

DIAMOND DRILL CORE LOGGING SHEET

52H12NW2007 2.28328 GILLARD LAKE

NORTH AMERICAN PALLADIUM LTD LAC DES ILES MINES LTD.

020

PROPERT	Y [,] Roa	ring River	CLAIM NO.:	1240558					DOWNHO			D: EZ Sho	•	F	REMARK	S: Drilled		ation hole		ohysical	
HOLE NO .:		04-001	LENGTH (m):		CORE SIZE:	NQ					EY BY: D			-1'		target.	The targ	et was a r	nag high		
LOCATION		e Grid	NORTHING:		EASTING:	292733	3.300		COLLAR S							modera	ate-strong	IP anoma	aly.		
SECTION:	N/A		ZONE:		ELEVATION (NY: Chibou	igamau	1								
COLLAR O	RIENTATI	ON (AZIMUTH/DIP)	PLANNED:	215. / -45.0	SURVEYED:		1		DATE LOC	GED: N	1ay. 04, 200	4 TO/N	y 04, 2004		Core Stor	age Lac D	es lles M	ine			
HOLE STA	RTED: Ap	ril 29, 2004	HOLE FINISHED): April 30, 2004	MAG:	2.1° w			LOGGED	3Y: Don	Heerema	A	\sim	F	Page 1 of	13					
		•							•			XYN	\sim								
METE				DTION		ROCK	Alt'r		Bx Matrix			SAMP	LES					ASS			
FROM	то		DESCR	IPTION		CODE	Plag F	^{¬xr}	Comp Pro	o'n No.	FROM	то	LENGTH	%S	Cpy:Po	Pd (g/t)	Pt (g/t)	Au (g/t)	Cu (%)	Ni (%)	Co (%)
0.00	3.30	OVERBURDEN																			
		COLOUR:	N/A																		
		GRAIN SIZE:	N/A																		
		PLAG (%):	N/A																		
		CPX (%):	N/A																		
		OPX (%):	N/A																		
		OTHER MIN. (%):	: N/A																		
3.30	141.00	DIABASE			-	Db	2			001	57.00	58.00	1.00	-		0.030	0.020	0.014	0.017	0.009	0.007
		COLOUR:	dark grey/brov	vn/black	-	Db		2		002	58.00	59.00	1.00	-		0.032	0.007	0.008	0.017	0.008	0.007
		GRAIN SIZE:	fine-medium-g	rained	-	Db		2		003	59.00 60.00	60.00 61.00	1.00	-		0.041	0.007	0.010	0.022	0.007	0.008
			_	Juniou	-	Db Db		2		004	61.00	62.00	1.00	-		0.035	0.007	0.008	0.018	0.011	0.009
		PLAG (%):	5-50		-	Db	2			006	62.00	63.00	1.00	-		0.036	0.007	0.007	0.017	0.011	0.008
		CPX (%):	50-90		-	Db	2			007	63.00	64.00	1.00	-		0.038	0.007	0.007	0.018	0.010	0.009
		OPX (%):	trace-10		-	Db		2		800	64.00	65.00	1.00	tr		0.062	0.007	0.015	0.032	0.006	0.009
					-	Db	3	2		009	65.00	66.00	1.00	tr		0.059	0.007	0.017	0.030	0.006	0.009
		OTHER MIN. (%):	: magnetite ~10		-	Db		2		010	66.00	67.00	1.00	tr		0.025	0.007	0.007	0.029	0.006	0.008
		Unit is made up of	f f.gr pxns and d	lark feldspars with spo	radically	Db		2		011	67.00	68.00	1.00	tr		0.052	0.054	0.017	0.027	0.008	0.009
				appearance of the Dia		Db		2		012	68.00	69.00	1.00	-		0.040	0.007	0.030	0.015	0.009	0.006
				onorite. Dry core app		Db		2		013	69.00	70.00	1.00	-		0.036	0.007	0.013	0.016	0.010	0.007
				while wet the rock is c		Db Db	2	2		014	70.00	71.00 72.00	1.00	-		0.034	0.007	0.006	0.017	0.009	0.006
				nit, are well developed	•	Db		2	- ···	015	71.00	72.00	1.00	-		0.036	0.007	0.024	0.018	0.011	0.007
				d intercumulate plag a m 10cm to 3m. Altera		Db	2			010	73.00	74.00	1.00	-		0.030	0.007	0.002	0.014	0.009	0.007
		respectively. The	se pous vary fro	in room to 3m. Altera			<u> </u>	* -				. 1.00				0.000			2.5.0		

NORTH AMERICAN PALLADIUM LTD

DESCRIPTION slightly stronger with mild bleaching and discolouration par grains. Trace py specks found locally within this material. agnetite specks throughout are metallic grey and 1-2mm It's content increases and coarsens within the coarser material and fractures. The magnetite is primary. 31.50m the unit becomes less magnetite-rich with only sible blebs. Also below this point, the coarser-grained It diminishes to virtually nothing. Core here very eneous. rally the unit is very compotent with relatively few es. ing is common at ~45° to ca (likely vertical fracturing the sill). Serpentine commonly found along fracture	ROCK CODE Db	Ait'n Plag Pxi 2 2		fatrix Prop'n	018	FROM 74.00	SAMF то 75.00	PLES	<u>%S</u>	Сру:Ро	Pd (g/t) 0.019	Pt (g/t) 0.030		AYS Cu (%) 0.017	Ni (%) 0.011	Co (%
slightly stronger with mild bleaching and discolouration par grains. Trace py specks found locally within this material. Interview of the unit specks throughout are metallic grey and 1-2mm It's content increases and coarsens within the coarser material and fractures. The magnetite is primary. B1.50m the unit becomes less magnetite-rich with only sible blebs. Also below this point, the coarser-grained I diminishes to virtually nothing. Core here very eneous. rally the unit is very compotent with relatively few es. ing is common at ~45° to ca (likely vertical fracturing he sill). Serpentine commonly found along fracture	1		Comp	Prop'n	<u> </u>				<u>%S</u> -	Cpy:Po						
par grains. Trace py specks found locally within this material. It's content increases and coarsens within the coarser material and fractures. The magnetite is primary. B1.50m the unit becomes less magnetite-rich with only sible blebs. Also below this point, the coarser-grained il diminishes to virtually nothing. Core here very eneous. rally the unit is very compotent with relatively few es. ing is common at ~45° to ca (likely vertical fracturing he sill). Serpentine commonly found along fracture	Db	2 2			018	74.00	75.00	1.00	-		0.019	0.030	0.007	0.017	0.011	0.0
6.00m: fracture at 45° to ca ng alt to green chl + serp																
edral square transparent qtz/calcite crystals 1% 2mm in 6 cubic py 35.83m: Qtz/felds vein at 55° to ca n zone white and vuggy																
a (bio) on outer edge of serp 87.00m: fracture at 15° to ca ndant serpentine with mica between serpentine and e 89.92m: vc.gr section																
3 n a 3 n 3	5.83m: Qtz/felds vein at 55° to ca zone white and vuggy entine surrounding vein (bio) on outer edge of serp 7.00m: fracture at 15° to ca idant serpentine with mica between serpentine and	5.83m: Qtz/felds vein at 55° to ca zone white and vuggy entine surrounding vein (bio) on outer edge of serp 7.00m: fracture at 15° to ca idant serpentine with mica between serpentine and 9.92m: vc.gr section edral (cumulate) tabular feldspar grains (random	5.83m: Qtz/felds vein at 55° to ca zone white and vuggy entine surrounding vein (bio) on outer edge of serp 7.00m: fracture at 15° to ca idant serpentine with mica between serpentine and 9.92m: vc.gr section edral (cumulate) tabular feldspar grains (random	5.83m: Qtz/felds vein at 55° to ca zone white and vuggy entine surrounding vein (bio) on outer edge of serp 7.00m: fracture at 15° to ca idant serpentine with mica between serpentine and 9.92m: vc.gr section edral (cumulate) tabular feldspar grains (random	5.83m: Qtz/felds vein at 55° to ca zone white and vuggy entine surrounding vein (bio) on outer edge of serp 7.00m: fracture at 15° to ca idant serpentine with mica between serpentine and 9.92m: vc.gr section edral (cumulate) tabular feldspar grains (random	5.83m: Qtz/felds vein at 55° to ca zone white and vuggy entine surrounding vein (bio) on outer edge of serp 7.00m: fracture at 15° to ca idant serpentine with mica between serpentine and 9.92m: vc.gr section edral (cumulate) tabular feldspar grains (random	5.83m: Qtz/felds vein at 55° to ca zone white and vuggy entine surrounding vein (bio) on outer edge of serp 7.00m: fracture at 15° to ca idant serpentine with mica between serpentine and 9.92m: vc.gr section edral (cumulate) tabular feldspar grains (random	5.83m: Qtz/felds vein at 55° to ca zone white and vuggy entine surrounding vein (bio) on outer edge of serp 7.00m: fracture at 15° to ca idant serpentine with mica between serpentine and 9.92m: vc.gr section edral (cumulate) tabular feldspar grains (random	5.83m: Qtz/felds vein at 55° to ca zone white and vuggy entine surrounding vein (bio) on outer edge of serp 7.00m: fracture at 15° to ca idant serpentine with mica between serpentine and 9.92m: vc.gr section edral (cumulate) tabular feldspar grains (random	5.83m: Qtz/felds vein at 55° to ca zone white and vuggy entine surrounding vein (bio) on outer edge of serp 7.00m: fracture at 15° to ca idant serpentine with mica between serpentine and 9.92m: vc.gr section edral (cumulate) tabular feldspar grains (random	5.83m: Qtz/felds vein at 55° to ca zone white and vuggy entine surrounding vein (bio) on outer edge of serp 7.00m: fracture at 15° to ca idant serpentine with mica between serpentine and 9.92m: vc.gr section edral (cumulate) tabular feldspar grains (random	5.83m: Qtz/felds vein at 55° to ca zone white and vuggy entine surrounding vein (bio) on outer edge of serp 7.00m: fracture at 15° to ca idant serpentine with mica between serpentine and 9.92m: vc.gr section edral (cumulate) tabular feldspar grains (random	5.83m: Qtz/felds vein at 55° to ca zone white and vuggy entine surrounding vein (bio) on outer edge of serp 7.00m: fracture at 15° to ca idant serpentine with mica between serpentine and 9.92m: vc.gr section edral (cumulate) tabular feldspar grains (random	5.83m: Qtz/felds vein at 55° to ca zone white and vuggy entine surrounding vein (bio) on outer edge of serp 7.00m: fracture at 15° to ca idant serpentine with mica between serpentine and 9.92m: vc.gr section edral (cumulate) tabular feldspar grains (random	5.83m: Qtz/felds vein at 55° to ca zone white and vuggy entine surrounding vein (bio) on outer edge of serp 7.00m: fracture at 15° to ca idant serpentine with mica between serpentine and 9.92m: vc.gr section edral (cumulate) tabular feldspar grains (random	5.83m: Qtz/felds vein at 55° to ca zone white and vuggy entine surrounding vein (bio) on outer edge of serp 7.00m: fracture at 15° to ca idant serpentine with mica between serpentine and 9.92m: vc.gr section edral (cumulate) tabular feldspar grains (random

NORTH AMERICAN PALLADIUM LTD

LAC DES ILES MINES LTD.

LOGGED	BY: Do	on Heerema SIGNATURE:		PROPE	ERTY: F	Roaring	River		ZON	E: N/A			HOLE	NO.: RF	R04-001	Pa	nge 3 of 3
METE	RAGE		ROCK	Alt'n	Bx Ma	atrix			SAM	PLES					ASSAYS		
FROM	то	DESCRIPTION	CODE	Plag Pxr	Сотр	Prop'n	No.	FROM	то	LENGTH	%S	Cpy:Pc	Pd (g/t)	Pt (g/t)	Au (g/t) Cu (%	.) Ni (%)	Co (%)
		-alt felds with slight pinking (hem alt) -gradational contacts -look like a mixed arrangement of pine needles															
		58.41-59.83 and 64.00-67.82m: m-vc.gr sections -feldspar content ~50% sub-euhedral -pxn's, both opx and cpx, euhedral and tabular -almost 1cm x 0.3cm in size -upto 5% coarse magnetite blebs -trace py															
		72.00-73.00m: numerous fractures healed by green/blue very soft (soapy) serpentine	,														
		122.90-122.93m: felsic vein at 65° to ca -white with minor hematite-staining -green/blue (dark aqua) serpentine present															
		127.50-127.85m: fracture at 5° to ca -healed by 1cm wide serpentine (very soft)															
		E.O.H															
		E.O.H											Prir	nted: Frid	ay, August 13, 2	004	

Printed: Friday, August 13, 2004

2.28328

DIAMOND DRILL CORE LOGGING SHEET

NORTH AMERICAN PALLADIUM LTD

																	S MINE		
ROPERTY		ring River	CLAIM NO.:	1240558							IOD: EZ Sho	ot	REMA	RKS:					
HOLE NO .:		94-002	LENGTH (m):	102.0	CORE SIZE:	NQ					D. Heerema								
OCATION:		h Grid	NORTHING:	5504604.800	EASTING:	293262	.400			Y BY: N/A									
SECTION:		ON (AZIMUTH/DIP)	ZONE:	N/A		m): 1.000	1 45 000			ANY: Chibo	-	1 17 0001							
HOLE STAF			PLANNED: HOLE FINISHED	115. / -45.0	SURVEYED: MAG:	2.1º w	/ -45.600		ED BY: D.	May. 17, 20		ay. 17, 2004		torage Mine					
TULE STAP	TED. AL	stil 30, 2004	HOLE FINISHEL	. May 01, 2004	MAG.	2.1° W		LOGG	<u>со вт. о.</u>		AL		Page 1	of 4					
METER	RAGE	T				ROCK	Alt'n	Bx Matr	ix		SAMI	PLES				ASSA	AVS		
FROM	то		DESCR	PTION		CODE	Plag Pxr		Prop'n No	FROM	то	LENGTH	%S Cpy	Po Pd (g/t)	Pt (g/t)			Ni (%)	Co (%)
0.00	6.05	OVERBURDEN										<u> </u>	_	<u></u>	· ·				
		COLOUR:	N/A																
		GRAIN SIZE:	N/A																
		PLAG (%):	N/A																
		. ,	N/A																
		CPX (%):																	
		OPX (%):	N/A																
		OTHER MIN. (%)	N/A																
		- 5.60 to 6.05 m :	Rubble of diaba	se (likely boulders)															
		/////																	
6.05	102.00	DIABASE				Db	2 2		00	1 18.00	19.50	1.50	tr	0.020	0.007	0.012	0.015	0.007	0.005
		COLOUR:	N/A		-	Db	22		002		21.00	1.50	-	0.015	0.007	0.002	0.012	0.007	0.005
					_	Db	2 2		00	3 21.00	22.50	1.50	-	0.015	0.007	0.002	0.012	0.007	0.005
		GRAIN SIZE:	N/A		-	Db	2 2		004		24.00	1.50	-	0.016	0.007	0.002	0.013	0.007	0.005
		PLAG (%):	N/A		-	Db	2 2		00		25.50	1.50	-	0.021	0.007	0.002	0.013	0.007	0.005
		CPX (%):	N/A		-	Db Db	2 2 2 2		006		27.00 28.50	1.50 1.50	- tr	0.025	0.007	0.002	0.015	0.007	0.005
		OPX (%):	N/A		-	Db	2 2		008		30.00	1.50	tr	0.039	0.047	0.007	0.020	0.004	0.005
		. ,			-	Db	22		009		31.50	1.50	tr	0.038	0.029	0.002	0.025	0.004	0.006
		OTHER MIN. (%)				Db	2 2		010	31.50	33.00	1.50	-	0.019	0.007	0.002	0.014	0.007	0.005
		•	ark, mainly equi	granular with coarse	er-grained														
		pods within	ada un of folden	ar (dark), orthopyrox	iono and														
		clinopyroxene and		ar (uark), orthopyrox	ene anu														
		- Clinopyroxene is	-	30%															
														. 					

NORTH AMERICAN PALLADIUM LTD

OGGED BY: D.	Heerema SIGNATURE:		PROPE	RTY: F	Roaring	River		ZO	NE: N/A			HOLE NO .:	RR04-002	Page 2 of
METERAGE	DECODIDITION	ROCK	Alt'n	Bx Ma			·		APLES				ASSAYS	
FROM TO	DESCRIPTION	CODE	Plag Pxr	Comp	Prop'n	No.	FROM	то	LENGTI	4 %S	Сру:Р	PoPd (g/t) Pt (g	/t) Au (g/t) Cu (%)	Ni (%) Co (9
	 Orthopyroxene is approximately 25% to 30% 													
	- Feldspar is approximately 30%													
	- Magnetite is approximately 5% to 10%													
	- Rock fairly homogeneous throughout with exception of the													
	coarser sections which resemble a gabbronorite													
	- The finer diabase is a fine-grained assemblage of altered													
	clinopyroxene and othropyroxene, feldspar with 5% to 6%													
	magnetite 1 to 2 mm													
	- The clinopyroxene grains are mainly altered to amphibole and													
	chlorite while the orthopyroxene grains appear fresher with													
	brownish faced with tiny black pit marks													
	- The feldspar is dark and hard to see													
	- The magnetite grains appear primary													
	- Magnetite content remains constant regardless of grain size,													
	but the magnetite blebs or specks increase in size in coarser													
	material													
	- Within this coarser material, long tabular anhedral pyroxenite													
	grains are visable with intercumulate or intersitial feldspar and													
	magnetite													
	- Locally however, it appears as though both feldspar and													
	clinopyroxene are anhedral to subhedral													
	- Grains up to 1 cm long													
	- Feldspars are much easier to see here, with an off-white to													
	pinkish colour													
	- Local bleaching present													
	 These coarser sections are medium to coarse-grained and resemble a magnetite-rich gabbronorite 													
	- Gradational contacts exist between fine and coarse-grained													
	•													
	material - These sections range from 10 cm to approximately 2 m in													
	length													
	- Sulfide mineralization is present ocally within the coarser-													
	grained sections found within or at magnetite boundaries													
	- Tiny specks of pyrite +/- chalcopyrite in trace amounts													
	- The specks of pyrile τ - charcopyrile in trace amounts													

NORTH AMERICAN PALLADIUM LTD

OGGED BY: D	. Heerema SIGNATURE:		PROPE	RTY: R	oaring	River		ZC	DNE:	N/A			HOL	e no.: f	RR04-0	02	P	age 3 of
METERAGE	DECODIDITION	ROCK	Alt'n	Bx Mat					MPL							SSAYS		
FROM TO	DESCRIPTION	CODE	Plag Pxr	Comp	Prop'n	No.	FROM	T	0	LENGTH	%S	Сру:Р	o Pd (g	/t) Pt (g/1) Au (g	/t) Cu (%	6) Ni (%)	Co (%
	- Alteration of unit is constant in massive areas but increases																	
	along local fractures																	
	- Here very soft serpentine is abundant with trace carbonate																	
	alteration																	
	 Minor potassium alteration of felspar present also Orthopyroxene grains are altered to shiny pearoly luster like 																	
	grains (tremoline?)																	
	- These shine like tiny mirrors																	
	- Structurally the upper third of the hole contains the coarser																	
	pods and more fractures and shears																	
	- The lower 2/3 of the hole is compotent fine-grained																	
	homogeneous diabase																	
	- Throughout hole, multiple tiny healed fractures, healed by																	
	serpentine																	
	- Most fractures at 45° to core axis																	
	11.0 - 12.14 m : Fracture Zone at 45° to core axis																	
	 Multiple fractures causing rubbly core 																	
	- Dark chlorite / serpentine																	
	- Lower 0.3 m of section coarse grained material																	
	19.0 - 19.60 m : Coarser-Grained Diabase																	
	- Trace pyrite in magnetite																	
	- Magnetite blebs or growths upto 7 mm in diameter																	
	27.56 - 31.00 m : Coarse- Grained Diabase																	
	 Trace pyrite with magnetite 																	
	- Local potassium-alteration of feldspar																	
	38.40 - 38.44 m : Shear at 45° to core axis																	
	 Serpentine with plag (white) within shear 																	
	- Feldspar appear stretched and broken (weakly mylonitic)																	
	- Large alteration zone surrounding shear 10 cm on either side																	
	- Potassium alteration of plag																	

NORTH AMERICAN PALLADIUM LTD

OGGED BY:	D. Heerema SIGNATURE:		PROPE	ERTY: F	loaring	River		ZO	NE: N/A			HOLE	NO.: Rf	R04-002		Pa	ge 4 of
METERAGE		ROCK	Alt'n	Bx Ma	itrix	Į.		SA	IPLES					ASS	AYS		
FROM TO	DESCRIPTION	CODE	Plag Pxr	Comp	Prop'n	No.	FROM	то	LENGTH	%S	Сру:Ро	Pd (g/t)	Pt (g/t)	Au (g/t)	Cu (%)	Ni (%)	Co (
	- Alteration of orthopyroxene to tremolite ? (shining crystals)																
	50.34 - 50.47 m : Healed Shear Zone at approximately 50° to ca																
	- Very soft serpentine containing broken-up cubic or square																
	fragments of previously euhedral feldspar grains																
	- White feldspar fragments with potassium altered grains on																
	boundary of zone																
	- Zone non-magnetic																
	- Large alteration zones surrounding shear zone approximately																
	20 cm on either side (no sulfide)																
	73.0 - 73.02 m : Shear or Fracture at 45° to core axis																
	- Abundant serpentine																
	- Minor carbonate alteration																
	 Large altered zone below approximately 15 cm (orthopyroxene 																
	and weakly magnetic)																
	85.20 - 85.26 m : Fracture zone at 45° to core axis																
	- Healed by feldspar and serpentine																
	End of Hole																
	11111																
												Prir	ited: Frid	ay, Augus	t 13, 200	4	

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NORTH AMERICAN PALLADIUM LTD

LAC DES ILES MINES LTD.

PROPERTY	: Roa	ring River	CLAIM NO.:	1241522				DOWNHO	E SURV	EY METHO	D: EZ Sho)t	F	REMARK						
HOLE NO .:		04-003	LENGTH (m):	126.0	CORE SIZE:	NQ				EY BY: D.										
LOCATION:	Sou	th Grid	NORTHING:	5501199.500	EASTING:	291595	5.900	COLLAR S	URVEY I	BY: N/A										
SECTION:	N/A		ZONE:	N/A	ELEVATION (VY: Chibou	-									
COLLAR OF	RIENTATI	ON (AZIMUTH/DIP)	PLANNED:	115. / -45.0	SURVEYED:	1.000	/ 0.000			lay. 04, 2004	1 TQ M	ay. 05, 2004			age Mine					
HOLE STAR	RTED: M	ay 02, 2004	HOLE FINISHED	: May 03, 2004	MAG:	2.0° w		LOGGED	3Y: D. H		H/	$ \longrightarrow $	F	Page 1 of	f 9					
		1			r		1 414		r	x		~			1					
METER		4	DESCO			ROCK	Alt'n	Bx Matrix			^U SAMF			1			ASS			
FROM	то	<u> </u>	DESCRI	FIION		CODE	Plag Pxr	Comp Pro	o'n No.	FROM	то	LENGTH	%S	Сру:Ро	Pd (g/t)	Pt (g/t)	Au (g/t)	Cu (%)	Ni (%)	Co (%
0.00	3.00	OVERBURDEN																		
		COLOUR:	N/A																	
		GRAIN SIZE:	N/A																	
		PLAG (%):	N/A																	
		CPX (%):	N/A																	
		OPX (%):	N/A																	
		OTHER MIN. (%):	ΝΙ/Δ																	
			N/A																	
3.00	53.55	DIABASE				Db		10	001	51.00	52.00	1.00	-	-	0.026	0.017	0.009	0.020	0.013	0.00
0.00	00.00	COLOUR:	Grey/Brown		-	Db		10	002	52.00	53.00	1.00	-	-	0.018	0.007	0.008	0.018	0.012	
		GRAIN SIZE:	Fine Grained		_	Db		10	003	53.00	53.55	0.55	-	-	0.019	0.007	0.009	0.019	0.012	0.00
		PLAG (%):	N/A																	
		CPX (%):	N/A																	
		OPX (%):	N/A																	
		OTHER MIN. (%):	N/A																	
		unit moderately fra	us diabase is a f actured at variou re has a very we within unit. ize.	fine grained grey/brw																

52H12NW2007 2.28328 GILLARD LAKE

040

NORTH AMERICAN PALLADIUM LTD

DGGED BY: D.	Heerema	SIGNATURE:		PROPE	RTY: R	oaring	River		ZON	E: N/A			HOLE N	10.: RR	04-003		Pag	e 2 of
METERAGE			ROCK	Alt'n	Bx Mat	rix			SAMI	PLES					ASS		·	
FROM TO		DESCRIPTION	CODE	Plag Pxr	Comp	Prop'n	No.	FROM	то	LENGTH	%S	Cpy:Po	Pd (g/t)	Pt (g/t)	Au (g/t)	Cu (%)	Ni (%)	Co (
	magnetite. - Pervassive mode - Fractures of varie carbmate along fra - Locally very thin material (likely ser - The last half met adjacent to the un - The rock become 20 cm. The contac upward. Very shar 45° to the core axi - Horizontal contact 35.50 - 38.00 : Ve - Likely a fault - Core rounded ar - Minor gauge at 3	hairlike fractures are healed by dark, very soft pentine) er of unit is the chill margin of the diabase derlying Gabbro es finer-grained and then aphanitic for the last of is black and very slowly greys and coarsens or contact with the Gabbro at approximately is ct of the sill. ry Rubbly and Broken Core ad locally gravel size particles																
	/////	~	Mgab			95	004	53.55	55.50	1.95	-		0.005	0.007	0.007	0.007	0.026	0.
53.55 71.66	MELANOGABBR		Mgab				004	55.50	57.00	1.50	-	-	0.005	0.007	0.007	0.007	0.020	0.
	COLOUR:	N/A	Mgab			100	006	57.00	58.50	1.50	-	-	0.005	0.007	0.007	0.004	0.027	0
	GRAIN SIZE:	Medium Grained	Mgab			100	007	58.50	60.00	1.50	-	-	0.005	0.007	0.002	0.004	0.026	0
	PLAG (%):	N/A	Mgab			100	008	60.00	61.50	1.50	-	-	0.005	0.015	0.002	0.005	0.023	C
			Gab			0	009	61.50	63.00	1.50	1.0	1:0	0.005	0.007	0.002	0.012	0.014	0
	CPX (%):	N/A	Gab			0	010	63.00	64.50	1.50	0.5	1:0	0.005	0.007	0.008	0.007	0.015	
	OPX (%):	N/A	Pxn			0	011	64.50	66.10	1.60	0.5	1:0	0.005	0.007	0.002	0.007	0.017	0
	OTHER MIN. (%)	· N/A	Pxn Pxn			98 75	012 013	66.10 67.50	67.50 69.00	1.40 1.50	-	-	0.034	0.007	0.002	0.005	0.033	0 0
	. ,		Pxn				013	69.00	70.50	1.50	-	-	0.005	0.007	0.002	0.007	0.035	0
		5% Mafics, 25% plag Is a dark medium grained melanogabbro, grey	Pxn			100	015	70.50	71.66	1.16	-	-	0.005	0.007	0.002	0.005	0.031	0

NORTH AMERICAN PALLADIUM LTD

OGGED BY: D. Heerema SIGNATURE:			PROPE	ERTY: Roaring River			ZONE: N/A						HOLE	NO.: RI	RR04-003		P	age 3 of
METERAGE	DESCRIPTION	ROCK	Alt'n	Bx Ma					MPLE							SSAYS	···	
ROM TO	 Clinopyroxene grains are dark with poor grain boundaries Plag grains are off-white to weak violet colour Anhedral to subhedral grains Rock is equigranular homogeneous for the upper 5 m Moderate pervassive magnetism Unit may be a breccia with gabbro clasts within the Melanogabbro matrix With moderate to weak contacts, the gabbro phases look out of place weakly varitextured. Within the possible Gabbro clasts, pyrite and lesser chalcopyrite minerzliation is present where none is found in the host melanogabbro to pyroxenite These gabbro sections are meganetic like the melanogabbro, however, lower in this unit the melanogabbro becomes more pyroxenitic with the plag content decreasing to approximately 5% Magnetism still moderate and pervassive Grey-green in colour due to alteration Mineralogy of unit is chalcopyrite and plag with alteration products of chlorite +/- actinolite Plag within gabbro shows evidence ofhematite alteration or K- feldspar alteration (peach colour) Pyroxenites are black/brown or green, but still fairly hard Within lower pyroxenite, deep blood red coloured Iddingsite / Hematite present locally upto 10% Last 2 m of unit is an altered grey pyroxenite that is broken up and faulted close to contact with lower grainite porphyry Here the rock is still hard with local Iddingsite (very soft) Structurally the unit is moderately fractured (2 to 3 cm per meter) at various angles to core axis Locally fractures are healed by white carbmate and treen chlorite Mafic dyking present also with sharp contacts. Dark grey/black colour, magnetic with the pyrite stringers 	CODE	Plag Pxr	Comp	Prop'n	NG.	FROM	10		ENGTH	%S) Γα (gr)		_ Au (g	//t) Cu (%)	Ni (%)	<u>ο</u>

NORTH AMERICAN PALLADIUM LTD

OGGED BY: D.	Heerema SIGNATURE:		PROPERTY: Roaring River					ZONE: N/A						HOLE NO.: RR04-003				ge 4 of
METERAGE	DESCRIPTION	ROCK	Alt'n	Bx Matrix				SAMPLES								ASSAYS		
FROM TO	DESCRIPTION	CODE	Plag Pxr	Comp	Prop'n	No.	FROM	T	ro	LENGTH	%S	Сру:Р	Pd (g/t	Pt (g/t)	Au (g/t	t) Cu (%)	Ni (%)	Co (%
	53.60 - 53.67 m : Leucogabbro Clast																	
	- sharp contacts (many) - 70% plag																	
	- Moderate-strong alteration																	
	53.95-54.13 m : Gabbro clast																	
	- Very weakly varitextured																	
	- Medium-coarsed grained																	
	- 60% plag																	
	55.77 - 55.82 m : Mafic Dike at 43° to core axis (likely Diabase)																	
	- Black																	
	- Aphanitic																	
	60.16 - 60.50 m Mafic Dike																	
	- Sharp contacts																	
	- Very fine grained, aphanitic																	
	- Magnetic (strongly)																	
	61.50 - 66.12 m : Gabbro Clast																	
	- Moderate contacts																	
	- Moderately varitextured in upper 1.5m then more equigranular																	
	below																	
	- Black and white (fresher looking) with local peach coloured																	
	alteration of plag - 1% pyrite with trace local chalcopyrite (stirnger and																	
	disseminated) in varitextured section, <0.5% in equigranular																	
	gabbro																	
	- 50:50 mafics to plag in upper varitextured section but																	
	gradationally changes to 55% to 60% mafics																	
	- No foliation																	
	- Intercumulate plag																	
	- Mafic dike within clast from 61.66 to 61.82 m; 0.5 mm pyrite																	
	stringer within at 45° core axis																	

NORTH AMERICAN PALLADIUM LTD

LOGGED BY: D. Heerema SIGNATURE: METERAGE DESCRIPTION			PROPE	PROPERTY: Roaring F				ZONE	E: N/A			HOLEN		Page 5 o					
				ROCK	Alt'n	Bx Matrix				SAMPLES						ASS	AYS		
FROM TO)		DESCRIPTION	CODE	Plag Pxr	Comp P	op'n	No.	FROM	то	LENGTH	%S	Сру:Ро	Pd (g/t)	Pt (g/t)	Au (g/t)	Cu (%)	Ni (%)	Co (
		67.51 - 67.70 m - Fine grained, e - weakly magnet	quigranular																
		/////																	
71.66 80.4	40	GRANITE PORPHYRY		Gr Porph	1			016	71.66	73.50	1.84	1	-	0.005	0.007	0.002	0.002	0.002	
		COLOUR:	Deep Hematite-Red (Red Granite)	Gr Porph Gr Porph				017 018	73.50	75.00 76.50	1.50 1.50	1	-	0.005	0.007	0.002	0.003	0.002	0.
		GRAIN SIZE:	Medium to Very Coarse Grained	Gr Porph				010	76.50	78.00	1.50	1	-	0.005	0.007	0.002	0.002	0.002	0.
			N/A	Gr Porph				020	78.00	79.50	1.50	1	-	0.005	0.007	0.002	0.002	0.002	0.
		PLAG (%):		Gr Porph			00	021	79.50	80.40	0.90	1	-	0.005	0.007	0.002	0.001	0.002	0.
		CPX (%):	N/A																
		OPX (%):	N/A																
		OTHER MIN. (%	ь́): N/A																
		 0-8% fine horn 25% to 30% qu 60% to 65% fe This unit is ma and grian sizes. while others are somewhat breck transparent upto to euhedral and booklets locally approximately 1 with quartz eyes Unit somewhat 	Idspar inly quartz and K-feldspar in varying proportions Areas are medium grained and equigranular very coarse grained with no mafics. It appears stated. Quartz eyes are grey/blue and semi- o 2 cm in length. Feldspar grains are subhedral can be from 2 mm to 2 cm long. Poddy biotite sporadic. Pyrite mineralization fairly abundant at % to 2% throughout, found mainly associted																

NORTH AMERICAN PALLADIUM LTD

OGGED) BY: D.	Heerema	SIGNATURE:		PROPE	RTY: Roarin	g Rive	er	ZONE	:: N/A			HOLE	10.: RF	04-003		Pag	ge 6 of 9
METE	RAGE			ROCK	Alt'n	Bx Matrix			SAMP	LES					ASS	AYS		
FROM	то		DESCRIPTION	CODE	Plag Pxr	Comp Prop	n No.	FROM	то	LENGTH	%S	Сру:Ро	Pd (g/t)	Pt (g/t)	Au (g/t)	Cu (%)	Ni (%)	Co (%
			-magnetic messy with abudant epidote stringers rubbly but distinct															
80.40	126.00	MELANOGABB	RO	Mgab		100		80.40	82.50	2.10	-	-	0.005	0.007	0.002	0.006	0.024	
		COLOUR:	alters	Mgab		100		82.50	84.00	1.50	-	-	0.005	0.007	0.002	0.011	0.025	
		GRAIN SIZE:	Medium Grained	Mgab		100		84.00	85.50	1.50	-	-	0.005	0.007	0.002	0.005	0.024	
			Medium Grained	Mgab		100		85.50	87.00	1.50	tr	-	0.005	0.007	0.002	0.010	0.025	
		PLAG (%):	N/A	Mgab		100		87.00	88.50	1.50	<0.5	1:0	0.005	0.007	0.002	0.010	0.024	0.00
		CPX (%):	N/A	Mgab/Gab		100		88.50	90.00	1.50	tr	-	0.005	0.007	0.002	0.010	0.026	
				Gab		100		90.00	91.50	1.50	tr	-	0.005	0.007	0.002	0.005	0.021	0.00
		OPX (%):	N/A	Gab/Dike Dike		100		91.50	93.00	1.50	tr	-	0.005	0.047	0.002	0.006	0.024	0.00
		OTHER MIN. (%	b): N/A	Dike Dike (mfc)		100		93.00 94.50	94.50 96.00	1.50	-	-	0.005	0.007	0.002	0.008	0.018	
			,	Dike (mfc)		100		94.50	96.00	1.50 1.50		-	0.005	0.007	0.002	0.010	0.028	0.00
			ilar to the one above (71.66 - 80.40m) , but	Mgab		100		97.50	99.00	1.50	-		0.072	0.035	0.001	0.027	0.034	0.00
			breccia and more gradational	Mgab/Pxn		100		99.00	100.50	1.50			0.005	0.037	0.002	0.007	0.030	0.00
		-	ationally changes from gabbro to pyroxenite	Mgab		100		100.50	102.00	1.50			0.003	0.007	0.002	0.005	0.034	0.01
			dium grained and well altered rom grey/green to grey/black	Mgab	· · · · · · · · · · · · · · · · · · ·	100		102.00	103.50	1.50	-	-	0.013	0.007	0.002	0.003	0.044	0.01
			92.50 is a melanogabbro with gabbroic patches	Mgab		100		103.50	105.00	1.50	-	-	0.005	0.007	0.002	0.005	0.033	0.00
			anges from 25% - 50%	Pxn		100		105.00	106.50	1.50	_	-	0.011	0.007	0.002	0.005	0.047	0.01
		-	changed the plag to a lime green colour due to	Pxn		100		106.50	108.00	1.50	-		0.016	0.007	0.002	0.005	0.049	0.01
		sausseritization	changed the plag to a lime groon colour due to	Pxn		100	040	108.00	109.37	1.37		-	0.005	0.007	0.002	0.004	0.052	0.01
			ve bleached plag grains to a dull white colour	Pxn		100	041	109.37	110.25	0.88	-	-	0.005	0.007	0.002	0.001	0.039	0.01
			e (violet) feldspar present (K-feldspar?)	Gr Porph		100	042	110.25	111.75	1.50	tr	-	0.005	0.007	0.002	0.004	0.003	0.00
			grains are altered to chlorite both black and	Gr Porph		100	043	111.75	113.15	1.40	tr	-	0.005	0.007	0.002	0.003	0.002	0.00
		green	•	Mgab		100	044	113.15	114.00	0.85	-	-	0.005	0.007	0.002	0.004	0.041	0.01
		- Grain boundari	es are not well perserved	Mgab		90?	045	114.00	115.50	1.50	-	-	0.034	0.007	0.002	0.003	0.037	0.01
		- Overall plag : n	nafic content is 40:60	Mgab		90?	046	115.50	117.00	1.50	-	-	0.005	0.007	0.002	0.002	0.041	0.010
		- Moderate perva	assive magnetism present	Pxn		100	047	117.00	118.00	1.00	-	-	0.005	0.007	0.002	0.003	0.052	0.013
		- Rock fairly har	d	Pxn		100	048	118.00	119.10	1.10	-	-	0.005	0.007	0.002	0.003	0.046	0.011
		- Structurally cor	npotent with mafic diking abundant (few	Mfc Dike		100	049	119.10	120.20	1.10	-	-	0.005	0.007	0.002	0.006	0.030	0.008

NORTH AMERICAN PALLADIUM LTD

METERAGE		ROCK	Alt'n	Bx Mat	rix			SAME	PLES			Γ		ASS	AYS		
ROM TO	DESCRIPTION	CODE	Plag Pxr		Prop'n	No.	FROM	то	LENGTH	%S	Сру:Ро	Pd (g/t)	Pt (g/t)	Au (g/t)		Ni (%)	Co
	fractures)	Pxn		•	1	050	120.20	121.50	1.30	-	-	0.005	0.007	0.002	0.003	0.044	0.
	- Pyrite mineralization present locally as pods 2 to 10 mm wide	Pxn			90?	051	121.50	123.00	1.50	-	- · · ·	0.005	0.007	0.002	0.004	0.029	0.
	(found more in Gabbro than in Melanogabbro), however in unit	Mgab			100	052	123.00	124.50	1.50	-	-	0.005	0.007	0.002	0.003	0.035	0
	below 98 m is a Melanogabbro that grades into a pyroxenite	Gab			100	053	124.50	126.00	1.50	-	-	0.005	0.007	0.002	0.004	0.026	(
	- Here alteration is great and plag contencts are as low as 5%																
	 Rock is green/black from chlorite alteration 																
	- Again plag is sausseritized																
	- Moderate magnetisim																
	- Trace sulfide at best																
	- Fracturing moderate with chlorite and minor carbonate on																
	fracture surfaces																
	- Coarse grained Baggro blocks that are not magnetic are found																
	around 115.5 m that may be clasts																
	- Contacts moderately sharp																
	- Strong alteration f plag																
	 Deep red soft Iddingsite found within some of the pyroxenite Diking common throughut this portion of the unit as well 																
	- Diking common unoughur this portion of the drift as well																
	88.01 - 88.25 m :																
	- Aphanitic mafic dike at approximately 90° to core axis																
	- Sharp contacts																
	90.48 - 90.60 m :																
	 Aphanitic mafic dike at approximately 75° to core axis 																
	- Sharp Contacts																
	91.13 - 91.27 m :																
	- Aphanitic mafic dike at approximately 70° to core axis																
	- Sharp Contacts																
	91.69 - 91.80 m :																
	 Aphanitic mafic dike at approximately 85° to core axis 																
	- Moderate Contacts																

NORTH AMERICAN PALLADIUM LTD

GGED BY: D	. Heerema SIGNATURE:		PROPE	ERTY: F	Roaring	River		ZON	IE: N/A			HOLE N	10.: RF	204-003	1	Page 8
METERAGE	DESCRIPTION	ROCK	Alt'n	Bx Ma					PLES					ASSAYS		
ROM TO		CODE	Plag Pxr	Comp	Prop'n	No.	FROM	то	LENGTH	%S	Сру:Ро	Pd (g/t)	Pt (g/t)	Au (g/t) Cu	%) Ni (%	6) Co
	92.20 - 97.10 m :															
	 Very fine grained mafic / intervediate dike Upper contact at 10° to core axis 															
	- Lower contact rubble															
	- Rafts of host gabbro within															
	- Patches of orange K-feldspar or altered plag (looks like															
	feldspar porphyritic)															
	103.50 - 104.13 m :															
	- Mafic / intermediate dike at approximately 85° to core axis															
	105.18 - 105.60 m :															
	- Aphanitic mafic dike at approximately 70° to core axis															
	- Sharp contacts															
	107.56 - 107.91 m :															
	- Aphanitic mafic dike at approximately 55° to core axis															
	- Sharp contacts															
	110.25 - 113.15 m :															
	- Grainite porphyry as above															
	- Less than 1% mafics															
	- Trace pyrite															
	114.05 - 114.26 m :															
	- Aphanitic mafic dike at approximately 75° to core axis															
	- Sharp contacts															
	119.10 - 120.20 m :															
	- Aphanitic mafic dike at approximately 45° to core axis															
	- (diabase structure)															
	122.30 - 122.36 m :															
	- Aphanitic mafic dike at approximately 55° to core axis															

NORTH AMERICAN PALLADIUM LTD

	ROCK	Alt'n	Bx Ma	itrix			SAM	PLES					ASS	SAYS		
DESCRIPTION	CODE	Plag Pxr	Comp	Prop'n	No.	FROM	то	LENGTH	I %S	Сру:Ро	Pd (g/t)	Pt (g/t)	Au (g/t)	Cu (%)	Ni (%)	Co (%)
- Sharp contacts																
 125.20 - 125.36 m : Felspar / quartz vein at approximately 45° to core axis White with seim-transparent quartz Sharp contacts Vuggy and pitched (weathering) 																
End Of Hole																
/////																
-	125.20 - 125.36 m : - Felspar / quartz vein at approximately 45° to core axis - White with seim-transparent quartz - Sharp contacts - Vuggy and pitched (weathering) End Of Hole	125.20 - 125.36 m : - Felspar / quartz vein at approximately 45° to core axis - White with seim-transparent quartz - Sharp contacts - Vuggy and pitched (weathering) End Of Hole	125.20 - 125.36 m : - Felspar / quartz vein at approximately 45° to core axis - White with seim-transparent quartz - Sharp contacts - Vuggy and pitched (weathering) End Of Hole	125.20 - 125.36 m : - Felspar / quartz vein at approximately 45° to core axis - White with seim-transparent quartz - Sharp contacts - Vuggy and pitched (weathering) End Of Hole	125.20 - 125.36 m : - Felspar / quartz vein at approximately 45° to core axis - White with seim-transparent quartz - Sharp contacts - Vuggy and pitched (weathering) End Of Hole	125.20 - 125.36 m : - Felspar / quartz vein at approximately 45° to core axis - White with seim-transparent quartz - Sharp contacts - Vuggy and pitched (weathering) End Of Hole	125.20 - 125.36 m : - Felspar / quartz vein at approximately 45° to core axis - White with seim-transparent quartz - Sharp contacts - Vuggy and pitched (weathering) End Of Hole	125.20 - 125.36 m : - Felspar / quartz vein at approximately 45° to core axis - White with seim-transparent quartz - Sharp contacts - Vuggy and pitched (weathering) End Of Hole	125.20 - 125.36 m : - Felspar / quartz vein at approximately 45° to core axis - White with seim-transparent quartz - Sharp contacts - Vuggy and pitched (weathering) End Of Hole	125.20 - 125.36 m : - Felspar / quartz vein at approximately 45° to core axis - White with seim-transparent quartz - Sharp contacts - Vuggy and pitched (weathering) End Of Hole	125.20 - 125.36 m : - Felspar / quartz vein at approximately 45° to core axis - White with seim-transparent quartz - Sharp contacts - Vuggy and pitched (weathering) End Of Hole	125.20 - 125.36 m : - Felspar / quartz vein at approximately 45° to core axis - White with seim-transparent quartz - Sharp contacts - Vuggy and pitched (weathering) End Of Hole	125.20 - 125.36 m : - Felspar / quartz vein at approximately 45° to core axis - White with seim-transparent quartz - Sharp contacts - Vuggy and pitched (weathering) End Of Hole	125.20 - 125.36 m : - Felspar / quartz vein at approximately 45° to core axis - White with seim-transparent quartz - Sharp contacts - Vuggy and pitched (weathering) End Of Hole	125.20 - 125.36 m : - Felspar / quartz vein at approximately 45° to core axis - White with seim-transparent quartz - Sharp contacts - Vuggy and pitched (weathering) End Of Hole	125.20 - 125.36 m : - Felspar / quartz vein at approximately 45° to core axis - White with seim-transparent quartz - Sharp contacts - Vuggy and pitched (weathering) End Of Hole

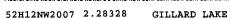
2.28328

DIAMOND DRILL CORE LOGGING SHEET

NORTH AMERICAN PALLADIUM LTD

LAC DES ILES MINES LTD.

JPERTY R	Roaring River	CLAIM NO .:	1241522				DOWNHOLE		ETHOD:	EZ Shot		RE	MARKS:	No tests need	led			. <u> </u>
	R04-004	LENGTH (m):	9.0	CORE SIZE:	NQ		DOWNHOLE											
	South Grid	NORTHING	5501141.000	EASTING:	291760	700	COLLAR SUI											
CTION: N	J/A	ZONE:	N/A	ELEVATION (r			DRILLING CO											
	ATION (AZIMUTH		115. / -45.0	SURVEYED:	1.000	/ -45.500	DATE LOGG			TO Mag	7. 17, 2004		e Storag					
LE STARTED:	May 03, 2004	HOLE FINISHE	ED: May 03, 2004	MAG:	2.1° w		LOGGED BY	: D. Heeren		t t c	$ \rightarrow $	Pag	ge 1 of 2					
METERAGE	<u> </u>				ROCK	Alt'n	Bx Matrix			SAMPI					AS	SAYS		
ROM TO		DESCF	RIPTION		CODE	Plag Pxr	Comp Prop'n	No. F	ROM		LENGTH	%S (Cpy:Po F	Pd (g/t) Pt (g/			Ni (%)	Co
.00 2.60	OVERBU	RDEN		······														
	COLOUR:	N/A																
	GRAIN SI	ZE: N/A																
	PLAG (%)	: N/A																
	CPX (%):	N/A																
	OPX (%):	N/A																
	. ,	IIN. (%): N/A																
.60 9.00	DIABASE										- 1,990-00-00-00-00-00-00-00-00-00-00-00-00-							
60 9.00	DIABASE		1															
60 9.00		Grey/ Brown																
50 9.00	COLOUR	Grey/ Brown ZE: Fine Grained																
30 9.00	COLOUR: GRAIN SI	Grey/ Brown ZE: Fine Grained																
60 9.00	COLOUR: GRAIN SI PLAG (%)	Grey/ Brown ZE: Fine Grained : N/A																
60 9.00	Colour: Grain Si Plag (%) CPX (%): OPX (%):	Grey/ Brown ZE: Fine Grained N/A N/A																
60 9.00	COLOUR: GRAIN SI PLAG (%) CPX (%): OPX (%): OTHER M - Hard gre - Equigrar - Homoge interstitial	Grey/ Brown ZE: Fine Grained N/A N/A N/A N/A	d pyroxenes and felo															



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NORTH AMERICAN PALLADIUM LTD

LAC DES ILES MINES LTD.

OGGED	BY: D.	Heerema SIGNATURE:		PROPE	ERTY: R	loaring	River		Z	ONE	E: N/A			HOLE	NO.: RI	204-004	1	Pa	ge 2 of 2
METER	AGE		ROCK	Ait'n	Bx Ma	trix			SA	AMP	LES					ASS	SAYS		
FROM	то	DESCRIPTION	CODE	Plag Pxr	Comp	Prop'n	No.	FROM	T	ro	LENGTH	%S	Cpy:Po	Pd (g/t)	Pt (g/t)	Au (g/t)	Cu (%)	Ni (%)	Co (%)
		 25% to 30% brown orthopyroxene and 5% to 6% magnetite and 25% to 30% green chlortie and serpentine Clinopyroxenes have completely been altered to amphibole and chlorite Rock resembles a very fine grained gabbronorite. Tiny magnetite specks approximately 1 mm are found throughout the hole approximately 5% to 6%. Strongly magenetic Structurally unit is fairly massive with few fractures at approximately 45° to core axis No alteration products on fracture planes (surfaces) No sulfide mineralization 5.50 - 5.62 m : Fracture at 5° to core axis Clay / sand seem 1 cm thick Brown material with tiny clasts of diabase within. 																	

Printed: Friday, May 28, 2004

2.28328

NORTH AMERICAN PALLADIUM LTD

LAC DES ILES MINES LTD.

PROPERT	Y: Roa	ring River	CLAIM NO.:	1241522				DOWN	HOLE S	SURVE	EY METHO	D: EZ Sho	t		REMARK	(S:			S WITNE		•
HOLE NO .:		04-005	LENGTH (m):		CORE SIZE:	NQ					YBY: D										
LOCATION	: Sou	th Grid	NORTHING:		EASTING:	291832	2.800		R SURV												
SECTION:	N/A		ZONE:		ELEVATION (n	,					Y: Chibou										
		ON (AZIMUTH/DIP)	PLANNED:		SURVEYED:	1.000	/ -45.500					TO M	y y. 06, 2004			age Mine					
HOLE STA	RTED: Ma	ay 03, 2004	HOLE FINISHED	: May 01, 1954	MAG:	2.1° w		LOGG	ED BY:	D. Hee		C#	\bigcirc		Page 1 of	4					
METE	DACE					ROCK	Alt'n	Bx Matr				<u> </u>				T					
		4	DESCRI	PTION		CODE	Plag Pxr			No.	FROM			%S	Cove	Pd (g/t)	Dt (att)	ASS		Ni (%)	Co (8)
FROM	то 10.50		DEGOIN			CODE	- , ma , v,			10.		1 10					r (g/c)			MI (76)	00 (%)
0.00	10.50	COLOUR:	N/A																		
		GRAIN SIZE:	N/A																		
		PLAG (%):	N/A																		
		CPX (%):	N/A																		
		OPX (%):	N/A																		
		OTHER MIN. (%)	· N/A																		
10.50	120.46	DIABASE				Db				001	117.50	119.00	1.50	-		0.013	0.007	0.002	0.020	0.012	0.008
10.00	120.40	COLOUR:	N/A		_	Db				002	119.00	120.50	1.50	-	-	0.014	0.007	0.002	0.018	0.012	0.008
		GRAIN SIZE:	Fine Grained																		
		PLAG (%):	N/A																		
		CPX (%):	N/A																		
		OPX (%):	N/A																		
		OTHER MIN. (%)	: N/A																		
		homogeneous - When dry, the ro - When wet, the r a weak trout fish f	ock is grey with l ock becomes gr exture or scales	ey to black with what	looks like																
			iovene grames											B (1 3 1 0 1 19 0			ERBAL ADIAL MALIA				
L																					-
													0 6 0 1 8 10 11		IR SIN JIKI NA DI		HAND IN MALLIN AND IN	NUTER NUTER NUTER	I ma ff 10 0 1		

.60

GILLARD LAKE

NORTH AMERICAN PALLADIUM LTD

OGGED BY: D.	Heerema	SIGNATURE:		PROPE	erty: r	oaring	River		ZOI	NE: N/A			HOLE	NO.: RF	204-005		Pa	ige 2 of
METERAGE			ROCK	Alt'n	Bx Ma	trix		······	SAN	IPLES					ASS	AYS		
FROM TO	4	DESCRIPTION	CODE	Plag Pxr	Comp	Prop'n	No.	FROM	то	LENGTH	%S	Cpy:P	Pd (g/t)	Pt (g/t)	Au (g/t)	Cu (%)	Ni (%)	Co (*
	lusture (tremoline - Unit 90% - 95% - Moderate-perva - Visable magnet more visable und - Very trace amo specks - No association - Medium-coarse gradational conta - Here the pyroxe needle-like - Upper section of	mafics issive magnetisim throughout ite specks locally visible with naked eye, but ler handlens (approximately 2% to 3%) unts of pyrite mineralization locally as very fine between grain size and sulfide grained material present locally with																
	on fracture faces - Lower contact w wavy at approxir	orakes at random orientations with serpentine with underlying melanogabbro is very sharp an nately 45° to core axis hanitic and black slowly coarsening and	d															

NORTH AMERICAN PALLADIUM LTD

LOGGE	DBY: D.	Heerema	SIGNATURE:		PROP	ERTY: F	Roaring	River		ZONE	E: N/ A			HOLE N	10.: RR	04-005		Pag	je 3 of 4
MET	ERAGE			ROCK	Alt'n	Bx M	atrix			SAMP	LES					ASS	AYS		
FROM	то	1	DESCRIPTION	CODE	Plag Pxr	Comp	Prop'n	No.	FROM	то	LENGTH	%S	Cpy:Po	Pd (g/t)		Au (g/t)	Cu (%)	Ni (%)	Co (%)
120.46	150.00	MELANOGABBR	0	Mgab				003	120.50	121.50	1.00	<0.25	-	0.005	0.007	0.002	0.017	0.043	0.009
		COLOUR:	Green/Grey/Blak with White	Mgab				004	121.50	123.00	1.50	<0.25	1:0	0.005	0.007	0.002	0.014	0.047	0.009
			•	Mgab				005	123.00	124.50	1.50	tr	1:1	0.005	0.007	0.002	0.013	0.046	0.009
		GRAIN SIZE:	Medium Grained	Mgab				006	124.50	126.00	1.50	0.25	1:1	0.005	0.007	0.002	0.028	0.060	0.008
		PLAG (%):	N/A -	Mgab				007	126.00	127.50 129.00	1.50	tr	-	0.005	0.007	0.002	0.021	0.056	0.009
		CPX (%):	N/A	Mgab Mgab				008	127.50 129.00	129.00	1.50	tr tr		0.005	0.007	0.002	0.025	0.058	0.009
		• •	-	Mgab				010	130.50	130.50	1.50	tr		0.005	0.007	0.007	0.021	0.035	0.003
		OPX (%):	N/A -	Blank				010	132.00	132.00	0.00	Blank		0.005	0.007	0.012	0.032	0.010	0.009
		OTHER MIN. (%):	: N/A	Standard				012	132.00	132.00	0.00	Standar		3.018	0.336	0.338	0.108	0.125	0.009
			-	Mgab				013	132.00	133.50	1.50	_	-	0.005	0.007	0.037	0.011	0.043	0.008
		to strongly altered	grained, relatively homogeneous and moderate	Mgab				014	133.50	135.00	1.50	tr	-	0.005	0.007	0.013	0.028	0.059	0.008
			ists of clinopyroxene, chlorite, serpentine,	Mgab		,a ja		015	135.00	136.50	1.50	-	-	0.005	0.007	0.002	0.042	0.067	0.009
		Q 1	g with minor iddingsite	Mgab				016	136.50	138.00	1.50	-	-	0.013	0.018	0.005	0.023	0.056	0.008
			ep green/grey/black colour with white to off-	Mgab				017	138.00	139.50	1.50	-	-	0.005	0.007	0.002	0.008	0.043	0.008
		white plag		Mgab				018	139.50	141.00	1.50	-	-	0.005	0.007	0.002	0.013	0.047	0.009
			ly consistent throughout at approximately 25%	Mgab				019	141.00	142.50	1.50	-	-	0.005	0.007	0.002	0.012	0.046	0.008
		- Alteration is not	as strong in upper half of unit where sulfide	Mgab				020	142.50	144.00	1.50	-	-	0.005	0.007	0.002	0.012	0.033	0.007
		mineralization is p		Mgab				021	144.00	145.50	1.50	-	-	0.005	0.007	0.006	0.012	0.045	0.008
			on is present smearing grain boudnaries upper	Mgab				022	145.50	147.00	1.50	-	-	0.005	0.007	0.002	0.008	0.045	0.008
		half		Mgab				023	147.00	148.50	1.50 1.50	-	-	0.005	0.007	0.016	0.007	0.037	0.007
		 Pyrite and chalce local sections as w Chalcopyrite and All sulfide found Lower half is strophysical Here structurally allowing alteration A much softer day blood red iddingsi Where the alteration Where the alteration 	n mica found sporadically throughout also opyrite +/- pyrrhotite mineralization found in very fine 1 mm blebs d pyrrhotite found in a 1:1 ratio between approximately 121.0 m and 132 m ongly altered increasing downhole v the rock contains more fractures and shears n to take place ark green, black and white rock with deep ite and soft serpentine is abundant ation intensifies most, the plag grains become overed by very soft slippery sepentine that	Mgab				024	148.50	150.00	1.50	-	-	0.005	0.007	0.002	0.007	0.036	0.008

NORTH AMERICAN PALLADIUM LTD

GGED BY: 1	D. Heerema SIGNATURE:		PROPE	RIY: R	oaring	River		ZON	IE: N/A			HOLE	E NO.: R	R04-005	5	Pag	je 4 d
METERAGE	DECODIDITION	ROCK	Alt'n	Bx Ma					PLES						AYS		
ROM TO		CODE	Plag Pxr	Comp	Prop'n	No.	FROM	то	LENGTH	1 %S	Cpy:F	o Pd (g/	t) Pt (g/t)	Au (g/t)	Cu (%)	Ni (%)	Co
	scratches by a fingernail. Iddingsite appears to be repla	cing the															
	plag	.															
	- Most of the unit is weak-moderately magnetic, except	tor local															
	areas of increased alteration																
	120.66 - 120.94 m : Mafic Dike at approximately 55° to	core axis															
	- Aphanitic black chill marings																
	- Tiny partially resorbed fragments of host melanogabb	ю															
	- Sharp contacts																
	124.2 - 124.40 m : Felsic Vein at 20° to Vein																
	- Sharp contacts																
	- Coarse-grained																
	- White-grey																
	136.10 - 136.40 m : Possible Fault Zone approximately	45° to															
	core axis																
	- Rounded rubbly core																
	- Serpentine																
	136.71 - 136.79 m : Shear at approximately 45° to core	axis															
	- Strong foliation																
	- Serpentine																
	- Slicken sides																
	143.16 - 143.66 m : Mafic / Intermediate Dike at 30° to	core axis															
	- Green/grey																
	- Fine grained																
	- Sharp contacts																
	- Approximately 40% very fine grained feldspar																
	End Of Hole																



Work Report Summary

Transaction No:	W0440.01335	Status:	APPROVED
Recording Date:	2004-AUG-19	Work Done from:	2004-APR-28
Approval Date:	2004-SEP-15	to:	2004-AUG-12

Client(s):

217699 LAC DES ILES MINES LTD.

ASSAY

Survey Type(s):

PDRILL

Wo	rk Report D	<u>etails:</u>	Perform		Amerikani				-	
Clai	m#	Perform	Approve	Applied	Applied Approve	Assign	Assign Approve	Reserve	Reserve Approve	Due Date
тв	1218314	\$0	\$0	\$1,600	\$1,600	\$0	0	\$0	\$0	2006-JUL-13
ΤВ	1218315	\$0	\$0	\$6,400	\$6,400	\$0	0	\$0	\$0	2006-APR-2
ΤВ	1218316	\$0	\$0	\$6,400	\$6,400	\$0	0	\$0	\$0	2006-APR-20
ΤВ	1218317	\$0	\$0	\$6,400	\$6,400	\$0	0	\$0	\$0	2006-APR-20
ΤВ	1218318	\$0	\$0	\$6,400	\$6,400	\$0	0	\$0	\$0	2006-APR-20
ΤВ	1240556	\$0	\$0	\$3,522	\$3,522	\$0	0	\$0	\$0	2006-MAR-2
ΤВ	1240557	\$0	\$0	\$5,302	\$5,302	\$0	0	\$0	\$0	2006-MAR-2
ΤВ	1240558	\$36,143	\$36,143	\$0	\$0	\$36,143	36,143	\$0	\$0	2005-MAR-2
тв	1240563	\$0	\$0	\$967	\$967	\$0	0	\$0	\$0	2005-MAR-2
тв	1241522	\$42,391	\$42,391	\$0	\$0	\$41,648	41,648	\$743	\$743	2004-DEC-0
тв	1241528	\$0	\$0	\$6,400	\$6,400	\$0	0	\$0	\$0	2006-JAN-05
тв	3011457	\$0	\$0	\$6,000	\$6,000	\$0	0	\$0	\$0	2006-JAN-16
тв	3011458	\$0	\$0	\$6,400	\$6,400	\$0	0	\$0	\$0	2006-JAN-16
тв	3011459	\$0	\$0	\$6,400	\$6,400	\$0	0	\$0	\$0	2006-JAN-16
тв	3011460	\$0	\$0	\$6,000	\$6,000	\$0	0	\$0	\$0	2006-JAN-16
тв	3011461	\$0	\$0	\$1,600	\$1,600	\$0	0	\$0	\$0	2006-JAN-16
тв	3011462	\$0	\$0	\$4,800	\$4,800	\$0	0	\$0	\$0	2006-JAN-16
тв	3011463	\$0	\$0	\$3,200	\$3,200	\$0	0	\$0	\$0	2006-JAN-16
		\$78,534	\$78,534	\$77,791	\$77,791	\$77,791	\$77,791	\$743	\$743	-

External Credits:

Reserve:

\$743 Reserve of Work Report#: W0440.01335

\$74

\$0

\$743 Total Remaining

Status of claim is based on information currently on record.



Ministry of Northern Development and Mines Ministère du Développement du Nord et des Mines

Date: 2004-SEP-15

PAUL ERIK NIELSEN LAC DES ILES MINES LTD.

THUNDER BAY, ONTARIO

CANADA

710 NORAH CRES

P7C 4T8



GEOSCIENCE ASSESSMENT OFFICE 933 RAMSEY LAKE ROAD, 6th FLOOR SUDBURY, ONTARIO P3E 6B5

Tel: (888) 415-9845 Fax:(877) 670-1555

Submission Number: 2.28328 Transaction Number(s): W0440.01335

Dear Sir or Madam

Subject: Approval of Assessment Work

We have approved your Assessment Work Submission with the above noted Transaction Number(s). The attached Work Report Summary indicates the results of the approval.

At the discretion of the Ministry, the assessment work performed on the mining lands noted in this work report may be subject to inspection and/or investigation at any time.

If you have any question regarding this correspondence, please contact BRUCE GATES by email at bruce.gates@ndm.gov.on.ca or by phone at (705) 670-5856.

Yours Sincerely,

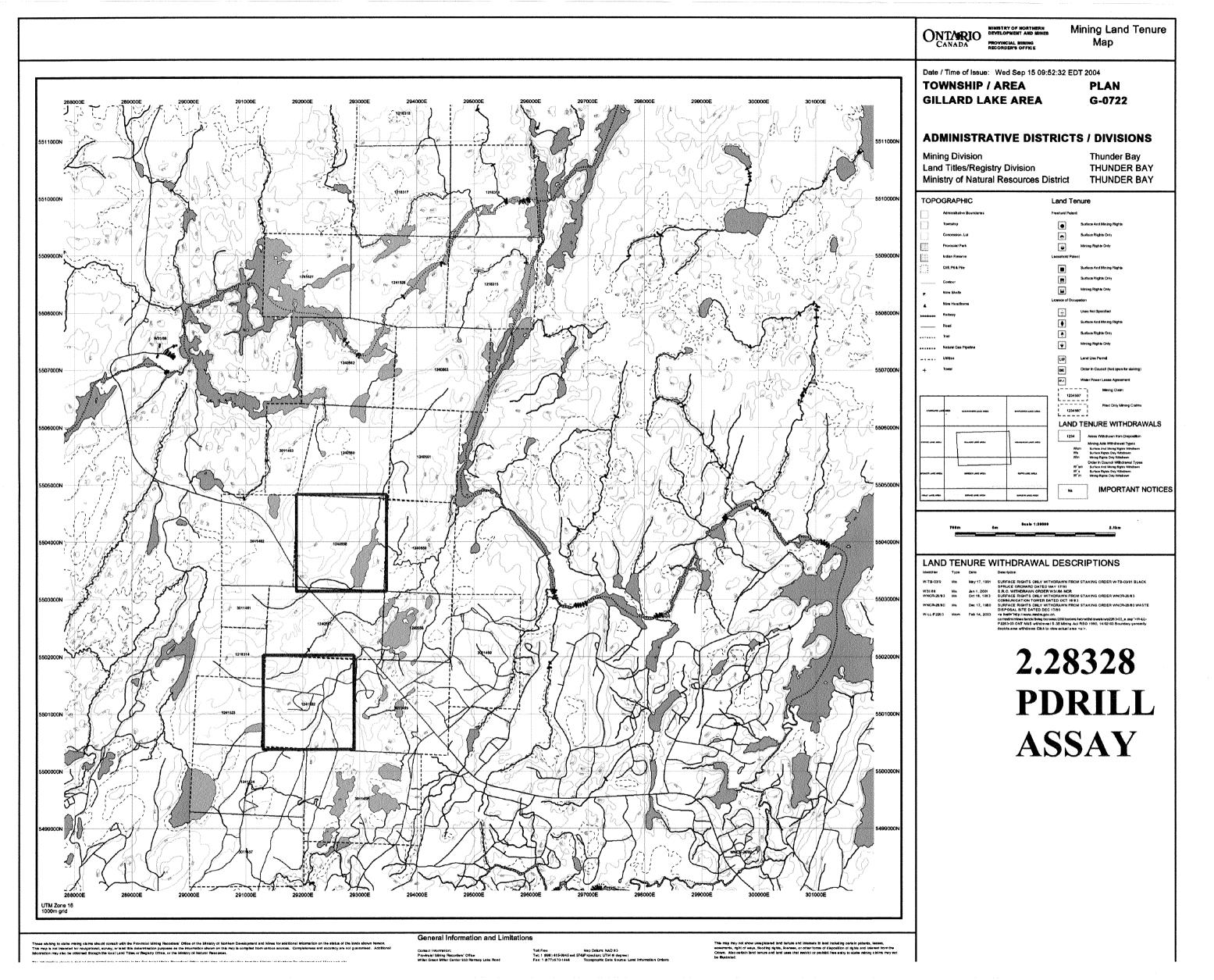
for Ron C. Gashinski Senior Manager, Mining Lands Section

Cc: Resident Geologist

Lac Des Iles Mines Ltd. (Claim Holder)

Assessment File Library

Lac Des Iles Mines Ltd. (Assessment Office)



200

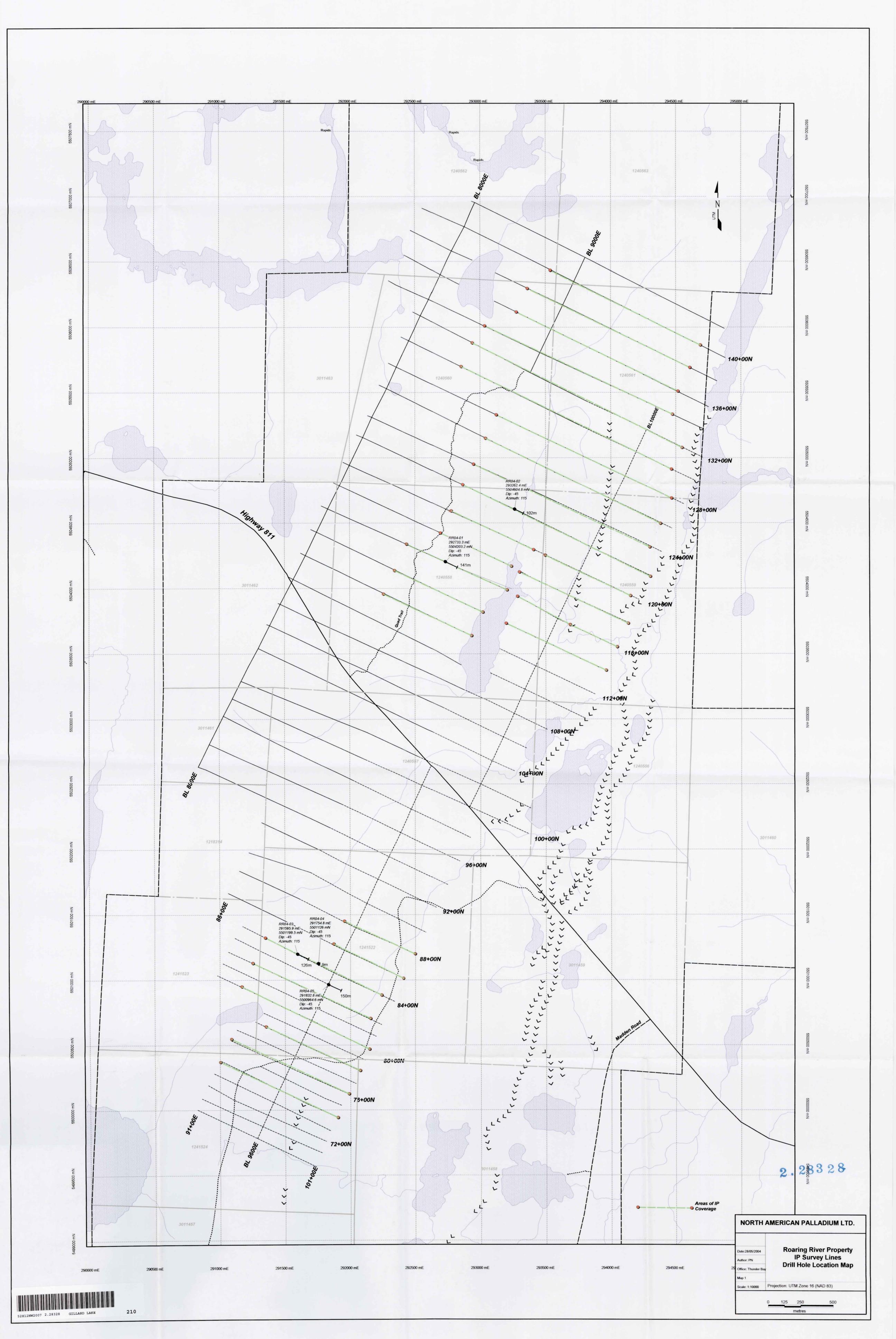
LAKE

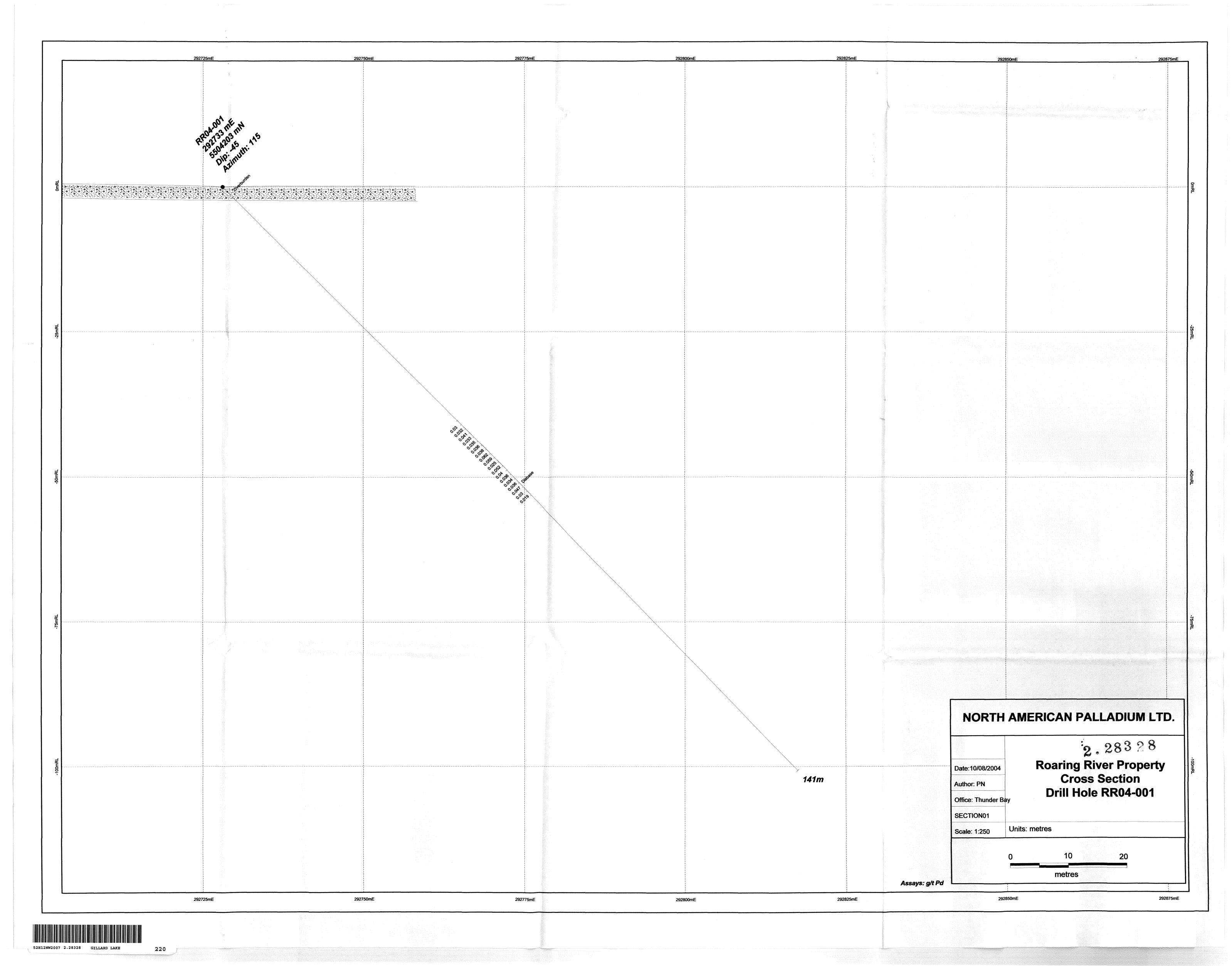
GILLARD

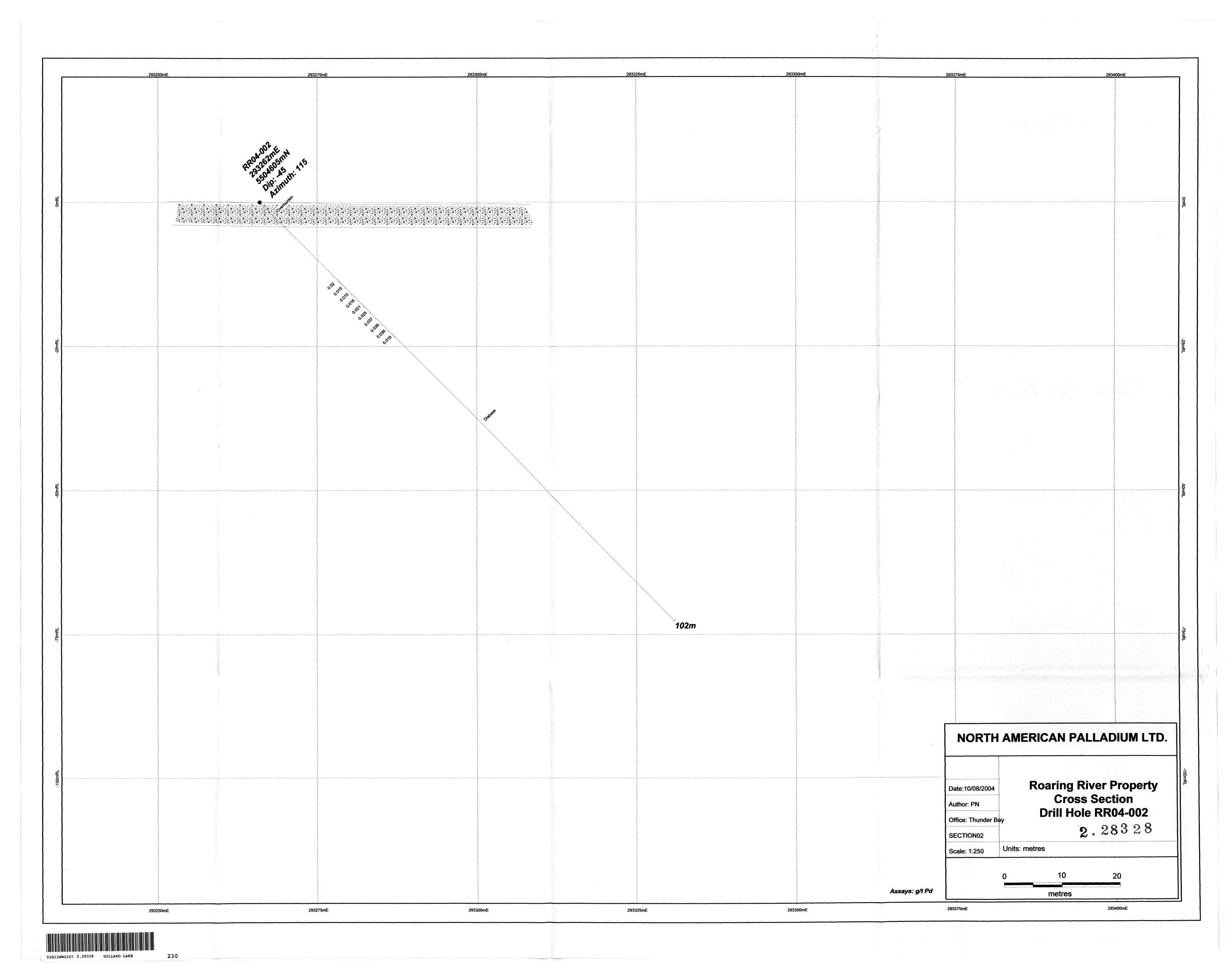
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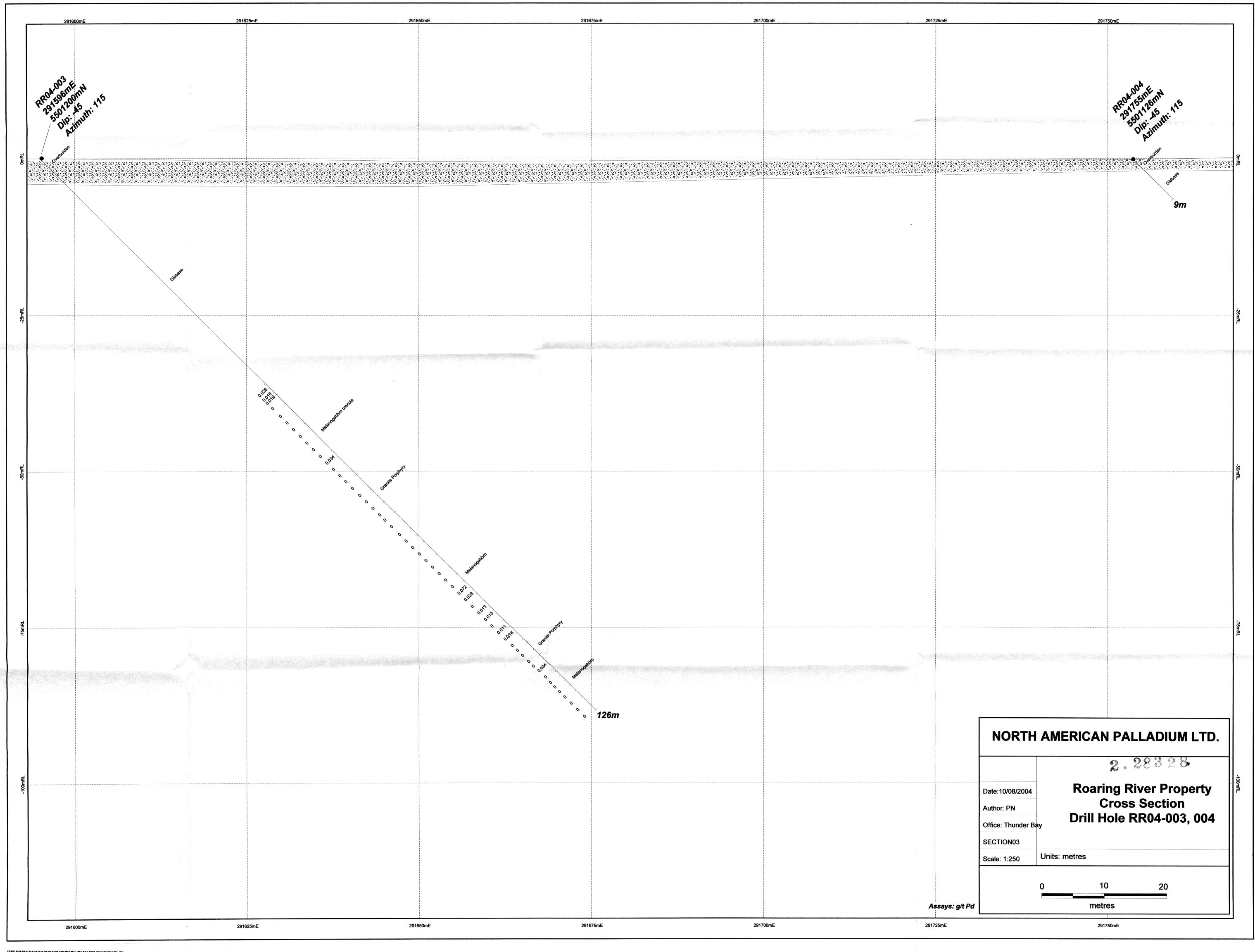
52H12N

.28328



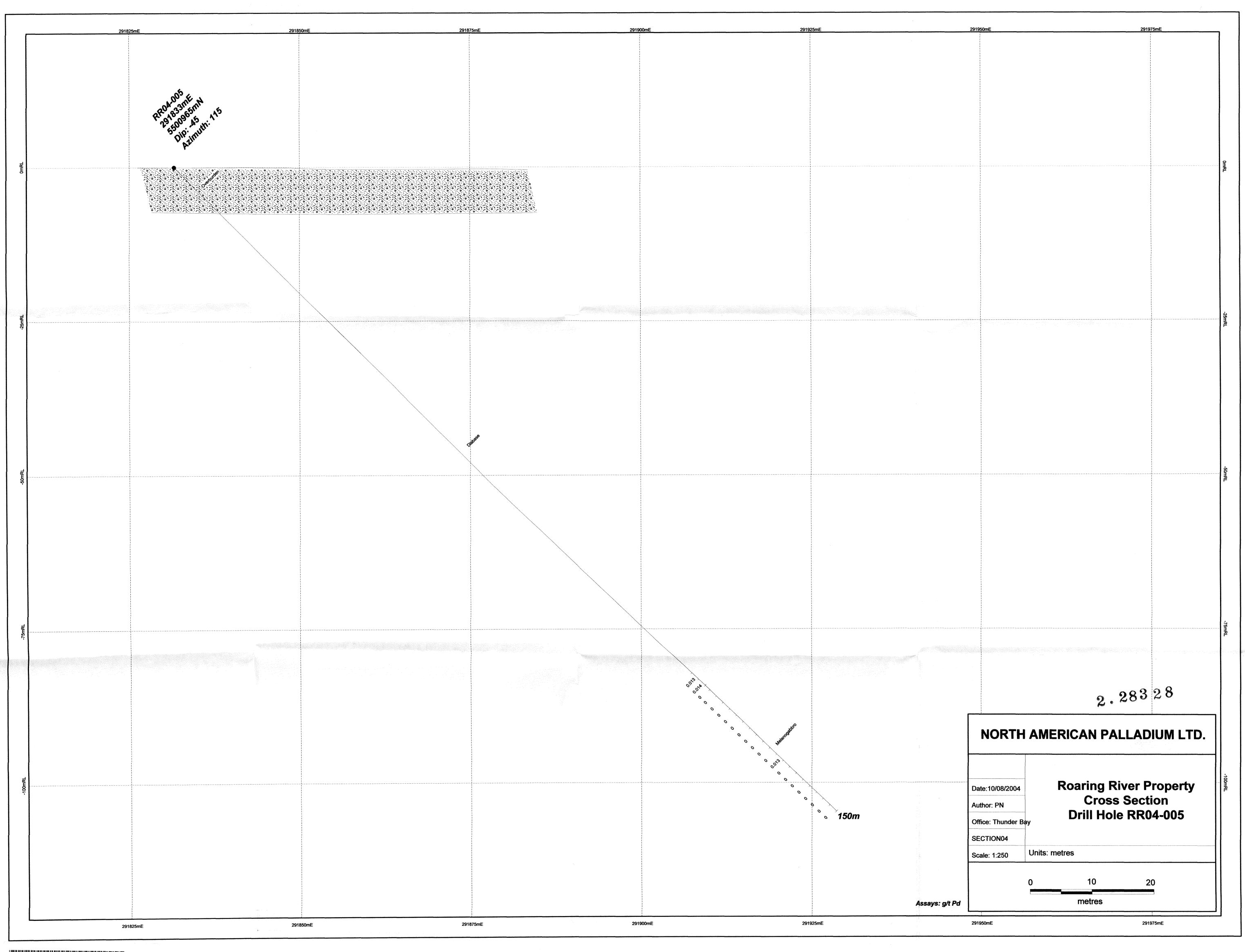






52H12NW2007 2.28328 GILLARD LAKE

240



52H12NW2007 2.28328 GILLARD LAKE 250