

# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.

LAC DES ILES MINES LTD.

PROPERTY:	LAC DES ILES	CLAIM NUMBER:	253	DOWNHOLE SURVEY METHOD:			Maxibor	DRILLING COMPANY:			CHIBOUGAMAU		
HOLE NO.:	00-009	LENGTH: (m)	969.75	CORE SIZE:	NQ	DEPTH	DIP	AZM	DEPTH	DIP	AZM	REMARKS:	Core stored at Lac des Iles mine site
LOCATION - <u>MINE GRID</u>	NORTHING:		32225.723	EASTING:		32554.086		Oriented Hole, casing left in, 723 extended to 969.75					
SECTION:	511N	ZONE:	Roby	ELEVATION:	504.803		DATE LOGGED: 20-Aug-01						
COLLAR ORIENTATION (AZIMUTH / DIP);	PLANNED:	251/-50°	SURVEYED:	249.824/-49.830°		LOGGED: I. Osmani			SIGNATURE:				
HOLE STARTED:	15-Oct-00	HOLE FINISHED:	11-Aug-01	2.1° w			G. Katchen			SHEET	1	OF	34

METERAGE		DESCRIPTION	SAMPLES					ASSAYS											
FROM	TO		Rock Code	Alt <sup>n</sup>	Bx Matrix		No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %	
			Plag	Pxr	Comp	Prop <sup>r</sup>													
0.00	2.00	OVERBURDEN																	
2.00	14.20	GABBRO, MINOR GABBRONORITE Interval predominantly composed of gabbro, with minor sections grading into gabbronorite at the base of the interval. Grey-green. Medium grained to locally weakly Plag-phyric. Non-magnetic. Gabbro consists of 40-45% Plag, <1% Opx and 55-60% Cpx. Alteration is weak to moderate - Plag is greyish-white colour and Cpx is partially altered to actinolite and chlorite. Chlorite alteration is strong within and adjacent to fractures. Nil to trace sulfides. 3.80m - 4.00m - Zone of broken core, possibly representing the fault; waxy, yellowish-green (epidote?) calcite veins. 5.00m - 5.70m - Zone of highly broken core (possible fault); broken surface is chloritized and carbonatized (calcite). 9.00m - 9.30m - Leucogabbro - upper contact broken and lower contact is sharp at 45° to core axis. 10.90m - 12.00m - Leucogabbro- Upper contact is sharp and sub-parallel to core axis, and lower contact is sharp but irregular and broken, contains small gabbro xenoliths.																	



52H04NE2019 2.24642 LAC DES ILES 010

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North American Palladium Ltd.

LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-009LOGGED BY: I. Osmani, G. Katchen SIGNATURE \_\_\_\_\_

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS							
FROM	TO		Plag	Pxt	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %	
14.20	128.30						<p><b>GABBRONORITE TO NORITE</b></p> <p>Interval primarily comprised of gabbronorite to norite, which occasionally grades in and out of minor gabbroic units. Gabbronorite is greenish and greyish-brown. It is massive and medium to fine grained. Plag 25-40%; Opx 25-40%; Cpx 30-40% and 0.5-2% magnetite. Moderately to strongly magnetic. Nil to trace sulfides. Alteration is weak to moderate. Relatively abundant zones of broken core which may represent discrete fault zones. The broken surfaces of core within these zones are usually carbonatized (calcite) and chloritized. Occasional diorite to quartz-diorite dikes and calcite-filled hairline fractures; often these fractures have produced chloritic haloes around them.</p> <p>24.70m - 25.00m - Broken core/fault gouge.</p> <p>27.70m - 27.90m - Mafic/diabase dike - fine grained, greenish-grey and strongly magnetic. Upper and lower contacts are at 20° and 45° to core axis, respectively.</p> <p>27.90m - 29.10m - Medium grained gabbro.</p> <p>30.40m - 30.90m - Medium grained gabbro.</p> <p>33.60m - 35.20m - Magnetic to non-magnetic, medium grained gabbro.</p> <p>24.80m - 26.30m - Plag-phyric gabbro - 5-8% Plag phenocrysts are set within fine grained gabbroic matrix.</p> <p>65.70m - 67.50m - Medium grained to weakly Plag-phyric gabbro. It contains trondhjemite pods.</p>												
			2	2			006	14.20	16.00	1.80	nil		0.09	0.06	0.03	0.007	0.008	0.001	
			2	2			007	16.00	18.00	2.00	nil		0.10	0.05	0.02	0.008	0.007	0.001	
			2	2			008	18.00	21.00	3.00	nil		0.08	0.04	0.01	0.005	0.009	0.002	
			2	2			009	21.00	24.00	3.00	nil		0.13	0.04	0.01	0.004	0.015	0.003	
			2	2			010	24.00	27.00	3.00	nil		0.31	0.13	0.11	0.023	0.014	0.002	
			2	2			011	27.00	30.00	3.00	nil		0.10	0.05	0.01	0.014	0.018	0.003	
			2	2			012	30.00	33.00	3.00	nil		0.12	0.06	0.02	0.010	0.011	0.002	
			2	2			013	33.00	36.00	3.00	nil		0.22	0.09	0.05	0.113	0.056	0.004	
			2	2			014	36.00	39.00	3.00	nil		0.17	0.07	0.07	0.161	0.077	0.005	
			2	2			015	39.00	42.00	3.00	nil		0.09	0.04	0.04	0.066	0.031	0.003	
			2	2			016	42.00	45.00	3.00	nil		0.05	0.03	0.01	0.009	0.008	0.002	
			2	2			017	45.00	48.00	3.00	nil		0.12	0.04	0.01	0.009	0.009	0.002	
			2	2			018	48.00	51.00	3.00	nil		0.09	0.02	0.00	0.006	0.008	0.002	
			2	2			019	51.00	54.00	3.00	nil		0.12	0.02	0.00	0.005	0.012	0.003	
			2	2			020	54.00	57.00	3.00	nil		0.13	0.02	0.00	0.008	0.008	0.002	
			2	2			021	57.00	60.00	3.00	nil		0.12	0.04	0.00	0.009	0.006	0.001	
			2	2			022	60.00	63.00	3.00	nil		0.21	0.04	0.00	0.008	0.008	0.002	
			2	2			023	63.00	66.00	3.00	nil		0.10	0.02	0.00	0.009	0.010	0.002	
			2	2			024	66.00	69.00	3.00	nil		0.09	0.04	0.00	0.003	0.010	0.002	
			2	2			025	69.00	72.00	3.00	nil		0.08	0.03	0.00	0.004	0.010	0.002	
			2	2			026	72.00	75.00	3.00	nil		0.13	0.04	0.00	0.005	0.005	0.001	
			2	2			027	75.00	78.00	3.00	nil		0.09	0.04	0.00	0.005	0.006	0.001	
			2	2			028	78.00	81.00	3.00	nil		0.09	0.02	0.00	0.005	0.006	0.001	
			2	2			029	81.00	84.00	3.00	nil		0.11	0.04	0.00	0.007	0.006	0.001	
			2	2			030	84.00	85.50	1.50	tr		0.10	0.04	0.00	0.011	0.006	0.001	
			2	2			031	85.50	87.00	1.50	nil		0.14	0.03	0.00	0.012	0.008	0.002	
			2	2			032	87.00	90.00	3.00	nil		0.09	0.03	0.00	0.007	0.007	0.001	
			2	2			033	90.00	93.00	3.00	nil		0.08	0.02	0.00	0.012	0.011	0.002	
			2	2			034	93.00	96.00	3.00	nil		0.07	0.03	0.00	0.005	0.009	0.002	
			2	2			035	96.00	99.00	3.00	nil		0.12	0.03	0.00	0.019	0.018	0.003	



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LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-009

LOGGED BY: I. Osmani, G. Katchen SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>				Bx Matrix					SAMPLES					ASSAYS				
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %			
128.30	144.50	<p><b>PLAG-PHYRIC TO APHYRIC GABBRO, MINOR GABBRONORITE (continued)</b></p> <p>65-70% (Cpx 65-68% and Opx &lt;2%) of the volume. Alteration is moderate, but locally it can get strong. The Plag is moderately to strongly sausseritized (a smokey to magenta colour) and Cpx altered to actinolite and chlorite. The chlorite alteration is strong within areas of fracturing/ shearing. Opx, which is &lt;2%, occurs usually close to gabbronorite contact (gradational contacts). Nil to trace, locally up to 0.50% sulfides (chalcopyrite-pyrrhotite) occur as fine disseminations.</p> <p>137.80m - 138.30m - Quartz vein - non-mineralized. Upper and lower contacts are sharp at 45° to core axis.</p> <p>143.20m - 143.50m - Highly magnetic zone with Plag-gabbro. Intense chloritization.</p>																			
144.50	182.35	<p><b>GABBRONORITE</b></p> <p>Similar to 14.20m - 128.30m. Medium grained. Medium brownish green to red brown colour. Locally massive with local foliation parallel to local structures only. Unit varies in composition with respect to percentage of Opx and Plag, local sections of norite and melanonorite, local rare sections of pyroxenite (small) with gradational boundaries. Composition: Plag 25-55%, locally a melanogabbronorite Cpx 5-40%; Opx 5-65%, local norite composition rock</p>	3	3			053	144.50	147.00	2.50	0.25	1:1	0.12	0.08	0.00	0.004	0.011	0.003			
			3	3			054	147.00	150.00	3.00	0.50	1:1	0.17	0.07	0.01	0.014	0.017	0.003			
			3	2			055	150.00	153.00	3.00	0.25	1:1	0.08	0.04	0.01	0.005	0.009	0.002			
			3	2			056	153.00	156.00	3.00	tr		0.08	0.02	0.01	0.006	0.016	0.004			
			2	2			057	156.00	159.00	3.00	nil		0.09	0.02	0.01	0.006	0.009	0.002			
			2	2			058	159.00	162.00	3.00	nil		0.08	0.03	0.00	0.005	0.009	0.002			
			2	2			059	162.00	165.00	3.00	tr		0.11	0.02	0.00	0.007	0.009	0.002			
			2	2			060	165.00	168.00	3.00	tr		0.13	0.03	0.00	0.005	0.008	0.002			
			3	2			061	168.00	171.00	3.00	nil		0.11	0.02	0.00	0.005	0.008	0.002			
			3	2			062	171.00	174.00	3.00	nil		0.10	0.04	0.01	0.006	0.009	0.002			
			3	2			063	174.00	177.00	3.00	nil		0.10	0.05	0.01	0.007	0.010	0.002			
			2	2			064	177.00	180.00	3.00	nil		0.07	0.03	0.01	0.006	0.015	0.003			
			2	2			065	180.00	182.35	2.35	tr		0.14	0.04	0.01	0.005	0.015	0.003			



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METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
144.50	182.35	<b>GABBRONORITE (continued)</b>  At 159.85m - Fracture ~225°/vertical, strong chlorite and serpentine. At 165.90m - Fracture ~90°/subvertical dip, moderate serpentine , minor chlorite. At 167.80m - Felsic vein (granite/granodiorite) - 3.5cm thick, striking ~135° sub-vertical east. At 168.45m - Fracture ~90°/subvertical - strong serpentine and diorite. 170.40m - 171.20m - Fracture ~230°/vertical dip, strong talc and serpentine. At 171.75m - Fracture ~220°/vertical dip, also fracture at 315°/subvertical dip. Strong talc and chlorite.																
182.35	185.70	<b>WEBSTERITE</b>  Medium grained. Massive. Medium to dark green. Moderately magnetic. Composition: Plag <5%, increases with depth; Cpx 40-100%; Opx nil to 60%, decreases with depth. Moderate alteration: 0.25% chalcopyrite:pyrrhotite (1:1 ratio) as irregular individual blebs. Fracture ~184.00m, 270°/subvertical, strong serpentine and chlorite.	2	2			066	182.55	183.90	1.35	0.25	1:1	0.04	0.03	0.01	0.006	0.016	0.003
			2	2			067	183.90	185.70	1.80	0.25	1:1	0.05	0.02	0.01	0.006	0.016	0.003



















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METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS							
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %	
354.25	388.25	<p><b>GABBRO - SIMILAR TO EAST GABBRO</b></p> <p>Medium grained. Equigranular. Medium greyish-green to light greyish-green. Moderate to hard. Massive. Non-magnetic, except bottom 2m (trace - 0.25% disseminated magnetite). Unit is weakly fractured with stronger alteration of Plag and Cpx at top 7m of section. Has local xenoliths of gabbroic composition but different textures and grain sizes (coarse grained). Composition: 50-65% Plag; 35-50% Cpx; Opx - trace - observed only in small cluster. Alteration: Strong alteration of Plag and Cpx for top 7m of section. Decreases in intensity to moderate. Minor epidote observed. Plag - altered to a purplish hue, dominantly observed as dark cloudy grey. Irregular crystal form. Moderate local sausseritization. Cpx - altered to actinolite, upper section is a light pastel green, possibly some chlorite/talc alteration present. Opx - Nil, no alteration observed. Mineralization: Pyrite - Nil to 0.25%, commonly observed as fine grained subhedral crystals. Chalcopyrite:pyrrhotite - none observed.</p>																	
			3	3			133	354.25	357.00	2.75	nil		0.03	0.00	0.00	0.003	0.009	0.002	
			3	2			134	357.00	360.00	3.00	nil		0.04	0.02	0.00	0.003	0.010	0.003	
			3	2			135	360.00	363.00	3.00	tr		0.17	0.08	0.01	0.004	0.010	0.003	
			3	2			136	363.00	366.00	3.00	tr		0.20	0.05	0.00	0.005	0.010	0.003	
			2	2			137	366.00	369.00	3.00	0.25		0.12	0.01	0.01	0.003	0.006	0.001	
			2	2			138	369.00	372.00	3.00	0.25		0.06	0.00	0.00	0.002	0.007	0.002	
			2	2			139	372.00	375.00	3.00	0.25		0.05	0.01	0.00	0.003	0.009	0.002	
			2	2			140	375.00	378.00	3.00	nil		0.04	0.00	0.00	0.003	0.007	0.002	
			2	2			141	378.00	381.00	3.00	nil		0.02	0.01	0.01	0.004	0.007	0.002	
			2	2			142	381.00	384.00	3.00	nil		0.02	0.01	0.01	0.005	0.011	0.003	
			2	2			143	384.00	387.00	3.00	0.25		0.01	0.00	0.01	0.006	0.012	0.003	
			2	2			144	387.00	388.25	1.25	nil		0.02	0.00	0.00	0.005	0.019	0.003	

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METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
354.25	388.25	<b>GABBRO - SIMILAR TO EAST GABBRO (continued)</b>  Structures: 378.20m - 378.60m - Felsic veining/dike striking ~120°, dipping west. Subvertical, moderate epidote. At 384.55m - Quartz vein ~5cm thick, striking 50° dipping subvertically south. 385.50m - 385.55m - Small diabase dikelet striking 180° dipping subvertically to west.																
388.25	414.35	<b>MAGNETITE BEARING GABBRO</b> Oriented core recovery poor.  Medium grained (similar in appearance to east gabbro) Equigranular. Medium greyish-green. Moderately hard. Foliated ~30-45° to core axis, locally massive. Unit is weakly fractured, with a sharp upper contact and a gradational lower contact. Composition: Plag 50-60%; Cpx 40-50%; Opx - none observed. Magnetite: 1% - 25%, commonly observed as individual irregular crystal blebs disseminated throughout. Alteration: Moderate. Plag - altered to a dark cloudy grey, locally bleached to a dull white with an abrasive texture. Cpx - altered to actinolite. Opx - Nil. Minor epidote, typically along fractures.	2	2			145	388.25	390.00	1.75	tr		0.04	0.00	0.00	0.004	0.115	0.006
			2	2			146	390.00	393.00	3.00	nil		0.13	0.00	0.00	0.001	0.025	0.004
			2	2			147	393.00	396.00	3.00	nil		0.04	0.00	0.00	0.001	0.016	0.004
			2	2			148	396.00	399.00	3.00	tr		0.02	0.00	0.00	0.001	0.017	0.004
			2	2			149	399.00	402.00	3.00	0.50		0.01	0.01	0.02	0.013	0.023	0.004
			2	2			150	402.00	405.00	3.00	tr		0.05	0.00	0.00	0.004	0.019	0.004
			2	2			151	405.00	408.00	3.00	nil		0.03	0.00	0.00	0.002	0.015	0.003
			2	2			152	408.00	411.00	3.00	0.50		0.02	0.00	0.00	0.002	0.014	0.003
			2	2			153	411.00	414.00	3.00	0.25		0.01	0.00	0.00	0.002	0.015	0.003
			2	2			154	414.00	414.35	0.35	tr		0.03	0.00	0.00	0.012	0.009	0.002



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METERAGE		DESCRIPTION	Alt <sup>n</sup> Bx Matrix				SAMPLES					ASSAYS						
FROM	TO		Plag	Px	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
388.25	414.35	<p><b>MAGNETITE BEARING GABBRO (continued)</b></p> <p>Mineralization: Pyrite - Trace to 0.5%, commonly observed as individual subhedral crystals as well as irregular crystal blebs intergrown with magnetite. Chalcopyrite:pyrrhotite - none observed. Structures: At 393.60m - Fracture ~20° to core axis, infilled with epidote. At 399.95m - Fracture ~40° to core axis, strong epidote, local hematite alteration. At 411.30m - Felsic vein ~40° to core axis, moderate to strong epidote, sausseritization of Plag in nearby.</p>																
414.35	614.60	<p><b>GABBRO (EAST GABBRO)</b></p> <p>Oriented core recovery poor.</p> <p>Medium grained, non-magnetic. Equigranular. Medium greyish-green. Moderately hard, locally hard. Locally foliated ~30 to 40° to core axis, otherwise massive. Unit is weakly to moderately fractured with a gradational upper contact. Composition: Plag 50-65%; Cpx 35-50%; Opx &lt;5%, occurring locally at 473.50m - 475.6m. Alteration: Moderate Plag - Altered to a dark cloudy grey, locally dark vitreous texture, irregular form, locally well sausseritized.</p>	2	2			155	414.35	417.00	2.65	0.25		0.02	0.00	0.00	0.002	0.011	0.003
			2	2			156	417.00	420.00	3.00	1.25		0.03	0.00	0.00	0.002	0.010	0.005
			2	2			157	420.00	423.00	3.00	tr		0.04	0.01	0.00	0.001	0.008	0.003
			2	2			158	423.00	426.00	3.00	tr		0.05	0.01	0.00	0.002	0.010	0.003
			2	2			159	426.00	429.00	3.00	nil		0.07	0.01	0.00	0.004	0.011	0.003
			2	2			160	429.00	432.00	3.00	tr		0.12	0.01	0.01	0.004	0.010	0.003
			2	2			161	432.00	435.00	3.00	nil		0.20	0.12	0.07	0.009	0.013	0.003
			2	2			162	435.00	438.00	3.00	0.50		0.06	0.01	0.03	0.043	0.020	0.003
			2	2			163	438.00	441.00	3.00	0.25		0.06	0.00	0.01	0.003	0.008	0.002
			2	2			164	441.00	444.00	3.00	1.00	1:0	0.16	0.03	0.06	0.105	0.041	0.004
			2	2			165	444.00	447.00	3.00	0.50	1:0	0.03	0.00	0.00	0.024	0.011	0.003
			2	2			166	447.00	450.00	3.00	0.75		0.01	0.00	0.00	0.010	0.004	0.003
			2	2			167	450.00	453.00	3.00	0.25		0.01	0.00	0.00	0.009	0.003	0.002
			2	2			168	453.00	456.00	3.00	tr		0.01	0.00	0.00	0.008	0.003	0.002
			2	2			169	456.00	459.00	3.00	tr		0.00	0.00	0.00	0.008	0.003	0.002
			2	2			170	459.00	462.00	3.00	nil		0.01	0.00	0.00	0.009	0.005	0.002

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LOGGED BY: I. Osmani, G. Katchen SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Coml	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
414.35	614.60		<p><b>GABBRO (EAST GABBRO) (continued)</b></p> <p>Local areas altered by hematite to a pinkish hue. Cpx - altered to actinolite, irregular crystal form. Opx - observed to be still in primary form, Minor to moderate epidote throughout unit. Mineralization: Pyrite - nil to 1.25%, observed as both subhedral fine grained crystals and as irregular crystal blebs. Chalcopyrite:pyrrhotite (1:0) - Locally observed in local sections (441.00m - 447.00m) and occurs as irregular crystal blebs (473.50m - 475.60m) 1%. Structures: 419.60m - 420.50m - Intermediate dike ~30° to core axis, strong epidote. 2.5% pyrite. Strong talc at upper and lower contacts. 422.80m - 423.00m - Anorthosite dike perpendicular to core axis, strong sausseritization. At 449.30m - Quartz vein ~35° to core axis ~8 cm thick, 0.25% chalcopyrite within vein. 452.50m - 455.50m - Increased alteration of Plag (altered pink due to hematite alteration). 455.80m - 456.00m - Fracture set/major fracture ~45° to core axis, moderate fracture gouge, crushed rock, moderate hematite alteration, strong talc, moderate epidote. At 460.45m - Fracture ~50° to core axis, minor talc. At 466.80m - Fracture ~65° to core axis, moderate serpentine. At 481.80m - Fracture ~65° to core axis, moderate talc. At 492.70m - Fracture healed with Plag, quartz and epidote ~25° to core axis, increased level of alteration nearby.</p>	2	2			171	462.00	465.00	3.00	0.25		0.01	0.00	0.00	0.010	0.004
						172	465.00	468.00	3.00	tr		0.01	0.00	0.00	0.009	0.003	0.002	
						173	468.00	471.00	3.00	0.25		0.01	0.01	0.00	0.009	0.004	0.002	
						174	471.00	473.50	2.50	tr	1:1	0.01	0.00	0.00	0.008	0.004	0.002	
						175	473.50	475.60	2.10	tr		0.01	0.00	0.01	0.009	0.005	0.002	
						176	475.60	477.00	1.40	0.25		0.01	0.00	0.00	0.012	0.004	0.002	
						177	477.00	480.00	3.00	tr		0.01	0.00	0.01	0.012	0.004	0.002	
						178	480.00	483.00	3.00	tr		0.01	0.01	0.01	0.012	0.005	0.002	
						179	483.00	486.00	3.00	nil		0.01	0.00	0.01	0.013	0.004	0.002	
						180	486.00	489.00	3.00	0.25		0.01	0.01	0.01	0.012	0.004	0.002	
						181	489.00	492.00	3.00	tr		0.02	0.01	0.01	0.008	0.004	0.002	
						182	492.00	495.00	3.00	tr		0.02	0.01	0.00	0.008	0.004	0.002	
						183	495.00	498.00	3.00	0.50		0.01	0.01	0.00	0.006	0.003	0.001	
						184	498.00	501.00	3.00	tr		0.02	0.01	0.01	0.008	0.004	0.002	
						185	501.00	504.00	3.00	0.75		0.02	0.01	0.00	0.007	0.004	0.002	
						186	504.00	507.00	3.00	0.75		0.02	0.00	0.01	0.011	0.004	0.002	
						187	507.00	510.00	3.00	0.50		0.02	0.00	0.01	0.008	0.005	0.002	
						188	510.00	513.00	3.00	0.50		0.02	0.01	0.01	0.009	0.006	0.002	
						189	513.00	516.00	3.00	tr		0.04	0.02	0.02	0.027	0.008	0.002	
						190	516.00	519.00	3.00	2.00		0.08	0.02	0.02	0.027	0.014	0.006	
						191	519.00	522.00	3.00	0.75		0.02	0.01	0.01	0.008	0.006	0.002	
						192	522.00	525.00	3.00	0.25		0.02	0.00	0.01	0.009	0.006	0.002	
						193	525.00	528.00	3.00	0.25		0.02	0.00	0.00	0.007	0.007	0.002	
						194	528.00	531.00	3.00	0.25		0.02	0.01	0.00	0.006	0.008	0.003	
						195	531.00	534.00	3.00	0.50		0.02	0.01	0.00	0.007	0.008	0.002	
						196	534.00	537.00	3.00	0.25		0.02	0.01	0.00	0.006	0.008	0.003	
						197	537.00	540.00	3.00	0.75		0.02	0.00	0.00	0.005	0.006	0.002	
						198	540.00	543.00	3.00	1.00		0.02	0.01	0.00	0.006	0.007	0.002	
						199	543.00	546.00	3.00	0.50		0.02	0.01	0.00	0.006	0.006	0.002	
						200	546.00	549.00	3.00	0.50		0.02	0.00	0.00	0.007	0.006	0.002	

## DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.

LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-009

LOGGED BY: I. Osmani, G. Katchen SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>m</sup>		Bx Matrix		SAMPLES					ASSAYS							
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %	
414.35	614.60		<b>GABBRO (EAST GABBRO) (continued)</b>  At 511.30m - Fracture ~40° to core axis, strong talc. At 513.40m - Fracture ~45° to core axis, moderate to strong talc. 516.90m - 517.45m - Fault zone -- Strongly altered Plag with hematite and sausserite. Moderate to strong presence of fault gouge. Strong talc. Moderate to strong presence of medium grained pyrite crystals along fault boundary ~30°. Surrounding rock altered by hematite and sausserite. At 519.35m - Healed fracture with potassium feldspar and Plag ~55° to core axis. At 525.95m - Healed fracture with chlorite, serpentine, ~50° to core axis, local sausseritization of Plag. 528.00m - 528.30m - Strongly fractured rock, unable to get orientation, rock altered extensively by hematite. 530.60m - 538.00m - Strongly fractured rock, multiple fractures/micro faults. Moderate fault gouge. Strong hematite and sausserite, local clusters of fine grained euhedral pyrite. Orientations range from 45-60° to core axis. Local strong and silicification of rock. Local strong chloritization, moderate to strong serpentine and talc and epidote. 541.90m - 542.70m - Rock fractured and brecciated, strongly altered with hematite and potassic alteration, moderate to strong fine grained epidote. Moderate talc, serpentine and chlorite.																
			3	3			201	549.00	552.00	3.00	0.50		0.02	0.00	0.00	0.005	0.006	0.002	
			3	3			202	552.00	553.50	1.50	0.25		0.02	0.00	0.00	0.005	0.006	0.002	
			3	3			203	553.50	555.80	2.30	0.25		0.02	0.00	0.00	0.003	0.006	0.002	
			4	4			204	555.80	558.00	2.20	nil		0.00	0.00	0.01	0.001	0.018	0.005	
			4	4			205	558.00	560.00	2.00	nil		0.00	0.00	0.00	0.001	0.016	0.004	
			4	3			206	560.00	562.65	2.65	0.25		0.02	0.01	0.00	0.006	0.007	0.002	
			4	3			207	562.65	565.10	2.45	nil		0.02	0.00	0.00	0.005	0.007	0.003	
			2	2			208	565.10	567.00	1.90	tr		0.02	0.00	0.00	0.007	0.005	0.002	
			2	2			209	567.00	570.00	3.00	nil		0.02	0.00	0.00	0.007	0.005	0.002	
			2	2			210	570.00	573.00	3.00	0.25		0.02	0.00	0.00	0.004	0.005	0.002	
			2	2			211	573.00	576.00	3.00	0.25		0.02	0.00	0.00	0.006	0.005	0.002	
			2	2			212	576.00	579.00	3.00	0.25		0.02	0.01	0.00	0.006	0.005	0.002	
			2	2			213	579.00	582.00	3.00	tr		0.02	0.01	0.00	0.005	0.005	0.002	
			2	2			214	582.00	585.00	3.00	tr		0.02	0.01	0.00	0.007	0.005	0.002	
			2	2			215	585.00	588.00	3.00	0.25		0.02	0.00	0.00	0.007	0.005	0.002	
			2	2			216	588.00	591.00	3.00	nil		0.02	0.00	0.00	0.006	0.005	0.002	
			2	2			217	591.00	594.00	3.00	nil		0.02	0.00	0.00	0.008	0.005	0.002	
			2	2			218	594.00	597.00	3.00	0.50		0.02	0.01	0.00	0.006	0.005	0.002	
			2	2			219	597.00	600.00	3.00	0.50		0.02	0.00	0.00	0.006	0.005	0.002	
			2	2			220	600.00	603.00	3.00	0.50		0.02	0.01	0.00	0.007	0.005	0.002	
			2	2			221	603.00	606.00	3.00	0.25		0.04	0.01	0.00	0.014	0.007	0.002	
			2	2			222	606.00	609.00	3.00	0.25		0.07	0.01	0.01	0.018	0.009	0.003	
			2	2			223	609.00	612.00	3.00	0.25	1:3	0.12	0.02	0.03	0.057	0.021	0.002	
			2	2			224	612.00	614.60	2.60	0.50	1:3	0.15	0.03	0.07	0.137	0.041	0.004	







# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.

LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-009

LOGGED BY: I. Osmani, G. Katchen SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup> Bx Matrix				SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
614.60	632.85	<b>HETEROLITHIC GABBRO BRECCIA (continued)</b>  Structures: Subunit - Pyroxenite 614.60m - 617.60m - Medium grained, 1.5 - 2.0% chalcopyrite:pyrrhotite (1:1 ratio) Massive. No magnetite. At 620.00m - Strong fractured rock, fracture orientation unable to estimate. Very strong talc alteration. Moderate fracture/fault gouge. At 631.95m - Fracture ~35° to core axis, Plag infilling, moderate serpentine and talc.																
632.85	646.45	<b>PYROXENITE</b>  Medium grained. Dark green. Soft. Non-magnetic. Unit is weakly fractured, and tends to increase sulfide content with depth. Relatively sharp upper and lower contacts. Composition: Plag <2-10%; Cpx >90%; Opx; none observed. Alteration: Moderate to strong Plag - altered to a purplish hue, irregular crystal form, locally very well sausseritized. Cpx - altered to actinolite, local talc/serpentine alteration has resulted in extremely soft rock.	3	3			232	632.85	636.00	3.15	tr	1:2	11.80	0.71	0.24	0.036	0.042	0.003
			3	3			233	636.00	639.00	3.00	0.25	1:2	7.38	0.51	0.19	0.018	0.038	0.004
			3	3			234	639.00	642.00	3.00	t	1:2	4.39	0.42	1.32	0.030	0.061	0.004
			3	3			235	642.00	645.00	3.00	1.50	1:2	0.70	0.19	0.88	0.203	0.216	0.007
			3	3			236	645.00	646.45	1.45	1.25	1:2	0.58	0.12	0.67	0.237	0.214	0.006

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METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
632.85	646.45		<b>PYROXENITE (continued)</b>  Opx - none observed. Mineralization: Pyrite - trace observed as irregular blebs. Chalcopyrite:pyrrhotite -Trace to 1.5% (1:2 ratio) -commonly observed as irregular intergrown crystal blebs, but also as individual irregular blebs. Structures: At 637.30m - Fracture ~50° to core axis - very strong talc alteration. Moderate serpentine and chlorite. Rock moderately fractured. 640.00m - 641.00m - Fractures ~15-25°, all have moderate serpentine and slickensides on fracture planes. Minor talc. At 645.40m - Felsic vein, ~40° to core axis, moderate chlorite.															
646.45	660.25	<b>VARITEXTURED GABBRO</b>  Medium grained. Moderately hard. Medium to dark green. Massive. Non-magnetic. Unit is weakly fractured, with local very minor sections of melanogabbro . Composition: Plag 35-55%; Cpx 45-65%; Opx none observed. Alteration: Moderate to locally strong. Pyrite - Nil to trace, observed as subhedral, fine grained	3	2			237	646.45	648.00	1.55	0.75	1:1	0.79	0.17	0.53	0.227	0.249	0.007
			3	2			238	648.00	651.00	3.00	0.50	2:1	1.34	0.16	0.08	0.024	0.051	0.003
			2	2			239	651.00	654.00	3.00	1.25	2:1	1.69	0.24	0.36	0.076	0.087	0.004
			2	2			240	654.00	657.00	3.00	0.25	2:1	0.13	0.02	0.01	0.007	0.014	0.002
			2	2			241	657.00	660.20	3.20	0.25	1:1	0.75	0.07	0.01	0.004	0.015	0.002





# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-009

LOGGED BY: I. Osmani, G. Katchen SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
660.20	675.45		<p><b>HETEROLITHIC GABBRO BRECCIA (continued)</b></p> <p>individual irregular crystal blebs, nil to 0.75%. Structures: At 661.30m - Fracture striking ~85° dipping subvertically to the south.</p>															
675.45	723.00	<p><b>VARITEXTURED GABBRO</b></p> <p>Medium to very coarse grained. Locally exhibiting foliation ~50° to core axis (minor), otherwise massive. Light greyish-green to medium greyish-green. Non-magnetic. Moderate, locally soft. Unit is weakly fractured. Composition: Plag - 50-65%; Cpx 35-50%; Opx - none observed. Alteration: Moderate, locally strong. Plag - Locally well sausseritized to a deep, dull yellow, otherwise altered to a cloudy grey, also sections noted in which Plag is altered to a purplish mauve colour. Cpx - altered to actinolite, local talc/serpentine alteration. Opx - none observed. Mineralization: Pyrite - Nil to 0.5%, typically observed as irregular crystal blebs. Chalcopyrite:pyrrhotite (3:2 ratio) - Nil to 0.5%, increasing with depth, typically observed as both individual and intergrown irregular crystal blebs.</p>	2	2			248	675.45	678.00	2.55	nil		0.54	0.05	0.01	0.006	0.010	0.002
			2	2			249	678.00	681.00	3.00	nil		0.16	0.05	0.00	0.002	0.009	0.001
			2	2			250	681.00	684.00	3.00	tr	1:1	0.59	0.06	0.01	0.007	0.012	0.002
			2	2			251	684.00	687.00	3.00	nil		2.46	0.19	0.01	0.005	0.012	0.002
			3	2			252	687.00	690.00	3.00	nil		1.23	0.12	0.02	0.003	0.015	0.002
			3	2			253	690.00	693.00	3.00	nil		0.15	0.04	0.00	0.003	0.015	0.002
			2	2			254	693.00	696.00	3.00	tr	1:1	0.30	0.04	0.00	0.008	0.015	0.002
			2	2			255	696.00	699.00	3.00	tr	1:0	0.09	0.02	0.00	0.011	0.013	0.002
			3	3			256	699.00	702.00	3.00	tr		0.50	0.05	0.00	0.003	0.010	0.002
			3	3			257	702.00	705.00	3.00	nil		3.94	0.19	0.05	0.003	0.012	0.002
			3	3			258	705.00	708.00	3.00	tr		0.41	0.05	0.01	0.007	0.009	0.002
			2	2			259	708.00	711.00	3.00	tr	1:1	0.33	0.04	0.00	0.002	0.010	0.001
			2	2			260	711.00	714.00	3.00	nil		1.02	0.13	0.01	0.004	0.011	0.002
			2	2			261	714.00	717.00	3.00	0.25	1:1	1.12	0.14	0.04	0.013	0.015	0.002
			2	2			262	717.00	720.00	3.00	0.50	1:1	1.50	0.24	0.14	0.024	0.030	0.003
			2	2			263	720.00	723.00	3.00	0.75	1:1	0.33	0.09	0.23	0.058	0.053	0.004





# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-009

LOGGED BY: I. Osmani, G. Katchen SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS							
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	NI %	Co %	
747.70	815.15						<p><b>GABBRO</b></p> <p>Greyish-green, medium grained, Plag 45 to 60%, Cpx 40 to 55% Opx, Nil, none observed. unit is massive, equigranular, relatively hard, non magnetic, unit is weakly fractured, alteration is strong with Plag altered to a very dark grey/purplish-mauve colour, rarely sausseritized, Cpx is altered to Actinolite with moderate to strong Talc alteration Trace fine grained Epidote Nil to 0.25% fine grained Pyrite 750.0 To 751.4m: Irregular Felsic veining     undulating almost parallel to core axis, 766.75 to 766.9m: Felsic Dike, approximately 40° to core axis     moderate fine grained Pyrite 802.7 to 803.7m: Fault Zone, partially recemented, approximately 35° to core axis, Plag bleached to a dull white, minor to moderate Hematite alteration, minor gouge (Talc rich) Cpx altered to bluish green colour, minor Epidote 805.7 to 806.15m: Healed Sheared Zone (Epidote and Plag)     approximately 30° to core axis     Plag bleached and locally a pink colour due to Hematite alteration.</p>												
							273	747.70	750.00	2.30	TR		0.05	0.02	0.02	0.010	0.024	0.003	
							274	750.00	753.00	3.00	0.25		0.21	0.07	0.04	0.024	0.042	0.003	
							275	753.00	756.00	3.00			0.04	0.02	0.01	0.009	0.020	0.003	
							276	756.00	759.00	3.00	TR		0.02	0.02	0.01	0.005	0.015	0.002	
							277	759.00	762.00	3.00	TR		0.01	0.02	0.01	0.004	0.017	0.003	
							278	762.00	765.00	3.00			0.02	0.02	0.01	0.005	0.017	0.003	
							279	765.00	768.00	3.00			0.06	0.02	0.01	0.005	0.018	0.003	
							280	768.00	771.00	3.00	TR		0.01	0.01	0.01	0.003	0.017	0.003	
							281	771.00	774.00	3.00	TR		0.01	0.01	0.01	0.005	0.017	0.003	
							282	774.00	777.00	3.00			0.01	0.01	0.01	0.005	0.018	0.003	
							283	777.00	780.00	3.00	TR		0.01	0.01	0.01	0.005	0.018	0.003	
							284	780.00	783.00	3.00			0.01	0.01	0.01	0.006	0.019	0.003	
							285	783.00	786.00	3.00	0.25		0.01	0.01	0.01	0.007	0.019	0.004	
							286	786.00	789.00	3.00	TR		0.01	0.01	0.01	0.005	0.017	0.003	
							287	789.00	792.00	3.00			0.01	0.01	0.00	0.005	0.018	0.003	
							288	792.00	795.00	3.00			0.01	0.01	0.00	0.006	0.017	0.003	
							289	795.00	798.00	3.00			0.01	0.01	0.00	0.005	0.017	0.003	
							290	798.00	801.00	3.00	TR		0.01	0.01	0.00	0.007	0.018	0.004	
							291	801.00	802.70	1.70	TR		0.01	0.01	0.00	0.007	0.016	0.003	
							292	802.70	803.70	1.00	TR		0.01	0.01	0.00	0.002	0.014	0.002	
							293	803.70	807.00	3.30	TR		0.01	0.01	0.00	0.006	0.016	0.003	
							294	807.00	810.00	3.00			0.03	0.01	0.01	0.010	0.017	0.004	
							295	810.00	813.00	3.00			0.01	0.01	0.00	0.007	0.016	0.004	
							296	813.00	815.15	2.15			0.01	0.01	0.00	0.007	0.016	0.003	

## DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.

LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-009

LOGGED BY: I. Osmani, G. Katchen

SIGNATURE

EXTENSION

METERAGE		DESCRIPTION	Alt <sup>m</sup>		Bx Matrix		SAMPLES					ASSAYS							
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %	
815.15	907.30		<b>GABBRO/EAST GABBRO</b> Greyish-green, medium grained, equigranular, Plag 45 to 60% Cpx 40 to 55%, Opx, nil none observed unit is massive with a local foliation present (approximately 40° to core axis) weakly fractured at various angles to core axis, unit is relatively quite hard, non-magnetic, gradual upper contact with distinct lower contact alteration is patchy weak to moderate with Plag altered to a cloudy white- to hazy grey colour, anhedral crystal form, trace to fine grained Epidote rarely saussuritized to a deep yellow. Cpx is altered to Actinolite with local, minor talc alteration to crystal boundaries Nil - Trace, Chalcopyrite as individual irregular crystal blebs Nil to 0.25% Pyrite as very fine grained crystals sparsely disseminated throughout. 836.55 to 836.8m: Shear Zone, approximately 40° to core axis healed with Plag and Epidote, Plag bleached to a dull white with local Hematite 843.25 to 847.25m: Intermediate Dike, approximately 40° to core axis Plag Porphyritic, local foliation, strong Epidote in filling along fractures, Trace Magnetite, 1.0% Pyrite 853.4 to 853.7m: 40° to core axis, very strong Hematite alteration minor Epidote, minor Talc along fractured plane, local Plag moderately saussuritized 888.35 to 888.7m: Tonalite Gneiss, approximately 40° to core axis foliated gneissic banding, 1% Pyrite																
			2	2			297	815.15	817.15	1.35			0.01	0.01	0.00	0.006	0.015	0.003	
			1	2			298	817.50	819.00	1.50	TR		0.01	0.01	0.00	0.008	0.016	0.003	
			2	2			299	819.00	822.00	3.00	0.25		0.01	0.01	0.00	0.007	0.014	0.003	
			2	2			300	822.00	825.00	3.00	TR		0.01	0.01	0.00	0.008	0.014	0.003	
			2	2			301	825.00	828.00	3.00	TR		0.01	0.01	0.00	0.009	0.012	0.003	
			2	2			302	828.00	831.00	3.00	0.25		0.01	0.01	0.00	0.006	0.012	0.003	
			2	2			303	831.00	834.00	3.00	0.25		0.01	0.01	0.00	0.007	0.012	0.003	
			3	2			304	834.00	837.00	3.00			0.01	0.01	0.00	0.006	0.013	0.003	
			2	2			305	837.00	840.00	3.00	0.25		0.01	0.01	0.00	0.006	0.014	0.003	
			2	2			306	840.00	843.25	3.25	TR		0.01	0.01	0.00	0.005	0.014	0.003	
							307	843.25	846.00	2.75	1.00		0.00	0.00	0.01	0.005	0.004	0.002	
							308	846.00	847.25	1.25	1.00		0.00	0.00	0.00	0.005	0.005	0.002	
			2	2			309	847.25	849.00	1.75	TR		0.01	0.01	0.00	0.005	0.013	0.003	
			3	2			310	849.00	852.00	3.00			0.02	0.02	0.00	0.004	0.013	0.003	
			3	2			311	852.00	855.00	3.00	TR		0.01	0.01	0.00	0.005	0.013	0.003	
			3	2			312	855.00	858.00	3.00			0.02	0.02	0.00	0.006	0.013	0.003	
			3	2			313	858.00	861.00	3.00			0.02	0.01	0.00	0.006	0.012	0.003	
			2	2			314	86.00	864.00	3.00	TR		0.01	0.01	0.01	0.008	0.013	0.003	
			2	2			315	864.00	867.00	3.00	TR		0.02	0.01	0.01	0.007	0.014	0.003	
			2	2			316	867.00	870.00	3.00			0.02	0.01	0.00	0.005	0.013	0.003	
			2	2			317	870.00	873.00	3.00	TR		0.02	0.01	0.00	0.006	0.014	0.003	
			3	2			318	873.00	876.00	3.00	TR		0.02	0.01	0.00	0.006	0.013	0.003	
			3	2			319	876.00	879.00	3.00	TR		0.02	0.01	0.00	0.005	0.014	0.003	
			3	2			320	879.00	882.00	3.00			0.01	0.01	0.00	0.006	0.014	0.004	
			3	2			321	882.00	885.00	3.00	TR		0.01	0.01	0.00	0.006	0.014	0.003	
			2	2			322	885.00	888.00	3.00	TR		0.01	0.01	0.00	0.006	0.016	0.004	
			2	2			323	888.00	891.00	3.00	TR		0.01	0.01	0.00	0.007	0.013	0.003	
			2	2			324	891.00	894.00	3.00			0.01	0.01	0.00	0.006	0.013	0.003	
			2	2			325	894.00	897.00	3.00			0.01	0.01	0.01	0.008	0.017	0.004	
			2	2			326	897.00	900.00	3.00	TR	1:0	0.02	0.01	0.01	0.008	0.016	0.004	









# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-009

LOGGED BY: I. Osmani, G. Katchen SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup> Bx Matrix				SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	NI %	Co %
927.00	969.75	<b>Tonalite Gneiss</b> White to greyish pink, locally a purplish-grey, fine to medium grained Plag 20 to 60%, white to dull yellow, Quartz 10 to 25% bluish-purple colour Mafic component varies from 15% to 70% Unit is dominantly foliated/banded approximately 40° to core axis, very hard, weakly fractured. Mafic components tend to be moderately magnetic locally minor to moderate Epidote and Hematite Nil - 0.5% fine grained Pyrite  END OF HOLE					339	927.90	930.00	2.10	tr		0.00	0.00	0.00	----	----	----
							340	930.00	933.00	3.00	0.50		0.00	0.00	0.00	----	----	----
							341	933.00	936.00	3.00			0.00	0.00	0.00	----	----	----
							342	936.00	939.00	3.00	tr		0.00	0.00	0.00	----	----	----
							343	939.00	942.00	3.00			0.00	0.00	0.00	----	----	----
							344	942.00	945.00	3.00			0.00	0.00	0.00	----	----	----
							345	945.00	948.00	3.00	tr		0.00	0.00	0.00	----	----	----
							346	948.00	951.00	3.00	0.25		0.00	0.00	0.00	----	----	----
							347	951.00	954.00	3.00	tr		0.00	0.00	0.00	----	----	----
							348	954.00	957.00	3.00	0.25		0.00	0.00	0.00	----	----	----
							349	957.00	960.00	3.00	0.50		0.00	0.00	0.00	----	----	----
							350	960.00	963.00	3.00	0.50		0.00	0.00	0.00	----	----	----
							351	963.00	966.00	3.00	0.25		0.00	0.00	0.00	----	----	----
							352	966.00	967.50	1.50	tr		0.00	0.00	0.00	----	----	----
							353	967.50	969.75	2.25	tr		0.00	0.00	0.00	----	----	----



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-224-6163

To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

Project: 00-009  
 Comments: ATTN: MOE LAVIGNE

Page Number : 1  
 Total Pages : 2  
 Certificate Date: 31-OCT-2000  
 Invoice No. : I0032042  
 P.O. Number :  
 Account : MZI

2. 246 42

NUV U C 2000

## CERTIFICATE OF ANALYSIS A0032042

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-009-001	1388 276	10	40	112	141	0.0141	190	0.0190	27	0.0027
00-009-002	1388 276	2	15	46	43	0.0043	128	0.0128	23	0.0023
00-009-003	1388 276	16	40	140	225	0.0225	169	0.0169	24	0.0024
00-009-004	1388 276	14	50	148	319	0.0319	248	0.0248	25	0.0025
00-009-005	1388 276	52	60	186	408	0.0408	260	0.0260	32	0.0032
00-009-006	1388 276	28	55	88	70	0.0070	79	0.0079	14	0.0014
00-009-007	1388 276	18	50	96	78	0.0078	65	0.0065	11	0.0011
00-009-008	1388 276	10	35	78	45	0.0045	90	0.0090	19	0.0019
00-009-009	1388 276	6	40	134	35	0.0035	148	0.0148	34	0.0034
00-009-010	1388 276	106	130	308	229	0.0229	136	0.0136	21	0.0021
00-009-011	1388 276	14	45	96	138	0.0138	184	0.0184	32	0.0032
00-009-012	1388 276	20	55	124	95	0.0095	107	0.0107	20	0.0020
00-009-013	1388 276	52	90	224	1130	0.1130	555	0.0555	40	0.0040
00-009-014	1388 276	70	70	170	1605	0.1605	769	0.0769	48	0.0048
00-009-015	1388 276	40	40	90	660	0.0660	310	0.0310	25	0.0025
00-009-016	1388 276	6	30	46	87	0.0087	84	0.0084	15	0.0015
00-009-017	1388 276	10	35	124	90	0.0090	85	0.0085	15	0.0015
00-009-018	1388 276	< 2	20	92	60	0.0060	84	0.0084	16	0.0016
00-009-019	1388 276	< 2	20	124	53	0.0053	123	0.0123	28	0.0028
00-009-020	1388 276	< 2	20	128	75	0.0075	80	0.0080	18	0.0018
00-009-021	1388 276	< 2	35	124	91	0.0091	59	0.0059	12	0.0012
00-009-022	1388 276	2	40	206	79	0.0079	84	0.0084	16	0.0016
00-009-023	1388 276	2	20	98	91	0.0091	100	0.0100	19	0.0019
00-009-024	1388 276	< 2	35	88	30	0.0030	99	0.0099	20	0.0020
00-009-025	1388 276	< 2	30	78	43	0.0043	101	0.0101	21	0.0021
00-009-026	1388 276	< 2	35	130	54	0.0054	49	0.0049	8	0.0008
00-009-027	1388 276	< 2	35	92	54	0.0054	63	0.0063	11	0.0011
00-009-028	1388 276	< 2	20	88	48	0.0048	61	0.0061	12	0.0012
00-009-029	1388 276	2	35	106	70	0.0070	62	0.0062	10	0.0010
00-009-030	1388 276	2	35	98	111	0.0111	62	0.0062	9	0.0009
00-009-031	1388 276	4	30	138	120	0.0120	84	0.0084	15	0.0015
00-009-032	1388 276	4	30	88	71	0.0071	66	0.0066	11	0.0011
00-009-033	1388 276	2	20	84	116	0.0116	107	0.0107	18	0.0018
00-009-034	1388 276	< 2	30	72	54	0.0054	90	0.0090	15	0.0015
00-009-035	1388 276	4	30	122	185	0.0185	180	0.0180	30	0.0030
00-009-036	1388 276	< 2	20	50	30	0.0030	81	0.0081	16	0.0016
00-009-037	1388 276	< 2	30	66	25	0.0025	95	0.0095	20	0.0020
00-009-038	1388 276	< 2	20	60	28	0.0028	131	0.0131	26	0.0026
00-009-039	1388 276	< 2	35	74	30	0.0030	65	0.0065	10	0.0010
00-009-040	1388 276	< 2	30	78	23	0.0023	56	0.0056	10	0.0010

CERTIFICATION: \_\_\_\_\_

*[Handwritten signature]*



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

Project: 00-009  
 Comments: ATTN: MOE LAVIGNE

Page Number :2  
 Total Pages :2  
 Certificate Date: 31-OCT-2000  
 Invoice No. : 10032042  
 P.O. Number :  
 Account : MZI

## CERTIFICATE OF ANALYSIS A0032042

SAMPLE	PREP CODE		Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-009-041	1388	276	< 2	40	106	29	0.0029	45	0.0045	9	0.0009
00-009-042	1388	276	< 2	5	44	20	0.0020	45	0.0045	8	0.0008
00-009-043	1388	276	< 2	30	110	34	0.0034	68	0.0068	13	0.0013
00-009-044	1388	276	2	20	78	44	0.0044	59	0.0059	9	0.0009
00-009-045	1388	276	6	15	68	52	0.0052	59	0.0059	10	0.0010
00-009-046	1388	276	8	30	120	90	0.0090	112	0.0112	24	0.0024
00-009-047	1388	276	6	30	116	81	0.0081	114	0.0114	25	0.0025
00-009-048	1388	276	12	45	210	205	0.0205	172	0.0172	31	0.0031
00-009-049	1388	276	2	35	136	67	0.0067	151	0.0151	31	0.0031
00-009-050	1388	276	8	20	86	55	0.0055	91	0.0091	20	0.0020
00-009-051	1388	276	6	15	84	44	0.0044	133	0.0133	27	0.0027
009-STA-105	214	238	244	290	3130	1160	0.1160	1015	0.1015	38	0.0038

CERTIFICATION: \_\_\_\_\_



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To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

Project : 00-009  
 Comments: ATTN: MOE LAVIGNE

Page Number : 1  
 Total Pages : 1  
 Certificate Date: 06-NOV-2000  
 Invoice No. : I0032110  
 P.O. Number :  
 Account : MZI

## CERTIFICATE OF ANALYSIS A0032110

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-009-052	1388 276	6	15	86	46	0.0046	109	0.0109	26	0.0026
00-009-053	1388 276	2	75	122	43	0.0043	110	0.0110	26	0.0026
00-009-054	1388 276	10	65	174	135	0.0135	166	0.0166	27	0.0027
00-009-055	1388 276	6	35	84	47	0.0047	86	0.0086	17	0.0017
00-009-056	1388 276	6	20	76	63	0.0063	164	0.0164	35	0.0035
00-009-057	1388 276	8	15	86	56	0.0056	90	0.0090	18	0.0018
00-009-058	1388 276	4	25	82	52	0.0052	90	0.0090	16	0.0016
00-009-059	1388 276	< 2	15	112	67	0.0067	89	0.0089	17	0.0017
00-009-060	1388 276	< 4	30	134	49	0.0049	75	0.0075	15	0.0015
00-009-061	1388 276	< 2	20	112	47	0.0047	75	0.0075	16	0.0016
00-009-062	1388 276	6	35	104	58	0.0058	86	0.0086	16	0.0016
00-009-063	1388 276	8	45	98	74	0.0074	99	0.0099	21	0.0021
00-009-064	1388 276	8	30	66	63	0.0063	146	0.0146	32	0.0032
00-009-065	1388 276	6	40	144	54	0.0054	146	0.0146	30	0.0030
00-009-066	1388 276	6	25	40	64	0.0064	159	0.0159	33	0.0033
00-009-067	1388 276	6	20	52	58	0.0058	160	0.0160	34	0.0034
00-009-068	1388 276	6	15	64	54	0.0054	183	0.0183	40	0.0040
00-009-069	1388 276	4	40	100	66	0.0066	185	0.0185	40	0.0040
00-009-070	1388 276	6	20	74	53	0.0053	191	0.0191	40	0.0040
00-009-071	1388 276	4	25	90	56	0.0056	190	0.0190	42	0.0042
00-009-072	1388 276	4	45	96	50	0.0050	185	0.0185	42	0.0042
00-009-073	1388 276	4	30	110	43	0.0043	266	0.0266	47	0.0047
00-009-074	1388 276	4	20	58	70	0.0070	231	0.0231	38	0.0038
00-009-075	1388 276	< 2	10	6	23	0.0023	26	0.0026	14	0.0014
00-009-076	1388 276	2	5	8	32	0.0032	29	0.0029	10	0.0010
00-009-077	1388 276	4	25	82	42	0.0042	149	0.0149	30	0.0030
00-009-078	1388 276	8	30	120	114	0.0114	210	0.0210	41	0.0041
00-009-079	1388 276	8	30	110	103	0.0103	191	0.0191	39	0.0039
00-009-080	1388 276	4	30	136	54	0.0054	204	0.0204	42	0.0042
00-009-081	1388 276	6	35	204	67	0.0067	218	0.0218	43	0.0043
009-STA-118	214 238	244	400	2950	1240	0.1240	1110	0.1110	41	0.0041

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CERTIFICATION: \_\_\_\_\_



# ALS Chemex

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 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
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 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

Page Number : 1  
 Total Pages : 1  
 Certificate Date: 06-NOV-2000  
 Invoice No. : I0032171  
 P.O. Number :  
 Account : MZI

Project : 00-009  
 Comments : ATTN: MOE LAVIGNE

## CERTIFICATE OF ANALYSIS A0032171

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-009-082	1388 276	12	30	120	95	0.0095	253	0.0253	51	0.0051
00-009-083	1388 276	6	< 5	2	18	0.0018	21	0.0021	8	0.0008
00-009-084	1388 276	20	25	110	92	0.0092	243	0.0243	51	0.0051
00-009-085	1388 276	16	20	200	140	0.0140	248	0.0248	54	0.0054
00-009-086	1388 276	16	30	176	65	0.0065	229	0.0229	56	0.0056
00-009-087	1388 276	46	50	372	184	0.0184	248	0.0248	54	0.0054
00-009-088	1388 276	54	45	400	841	0.0841	497	0.0497	54	0.0054
00-009-089	1388 276	4	< 5	54	12	0.0012	138	0.0138	47	0.0047
00-009-090	1388 276	6	< 5	44	19	0.0019	145	0.0145	48	0.0048
00-009-091	1388 276	6	< 5	38	12	0.0012	161	0.0161	53	0.0053
00-009-092	1388 276	6	< 5	26	12	0.0012	115	0.0115	34	0.0034
00-009-093	1388 276	4	< 5	34	16	0.0016	147	0.0147	47	0.0047
00-009-094	1388 276	6	< 5	34	16	0.0016	126	0.0126	35	0.0035
00-009-095	1388 276	6	< 5	32	16	0.0016	128	0.0128	38	0.0038
00-009-096	1388 276	24	20	234	58	0.0058	194	0.0194	59	0.0059
00-009-097	1388 276	22	15	164	603	0.0603	339	0.0339	66	0.0066
00-009-098	1388 276	8	< 5	48	73	0.0073	122	0.0122	36	0.0036
00-009-099	1388 276	6	< 5	36	30	0.0030	143	0.0143	38	0.0038
00-009-100	1388 276	6	< 5	82	73	0.0073	140	0.0140	46	0.0046
00-009-101	1388 276	14	5	84	275	0.0275	220	0.0220	61	0.0061
00-009-102	1388 276	18	15	118	365	0.0365	305	0.0305	81	0.0081
00-009-103	1388 276	16	15	100	337	0.0337	268	0.0268	81	0.0081
00-009-104	1388 276	14	< 5	92	395	0.0395	269	0.0269	94	0.0094
00-009-105	1388 276	8	5	76	98	0.0098	151	0.0151	40	0.0040
00-009-106	1388 276	16	10	110	380	0.0380	301	0.0301	84	0.0084
00-009-107	1388 276	16	< 5	106	304	0.0304	283	0.0283	90	0.0090
00-009-108	1388 276	8	< 5	50	174	0.0174	122	0.0122	55	0.0055
00-009-109	1388 276	10	< 5	80	107	0.0107	153	0.0153	43	0.0043
00-009-110	1388 276	32	25	252	768	0.0768	498	0.0498	118	0.0118
00-009-111	1388 276	28	20	194	845	0.0845	567	0.0567	164	0.0164
00-009-112	1388 276	18	15	146	369	0.0369	288	0.0288	71	0.0071
00-009-113	1388 276	8	5	66	101	0.0101	106	0.0106	30	0.0030
00-009-114	1388 276	14	10	74	107	0.0107	107	0.0107	32	0.0032
009-STA-123	214 238	332	300	3320	1280	0.1280	1100	0.1100	41	0.0041

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# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

Project: 00-009  
 Comments: ATTN: MOE LAVIGNE

Page Number : 1  
 Total Pages : 1  
 Certificate Date: 06-NOV-2000  
 Invoice No. : 10032364  
 P.O. Number :  
 Account : MZI

## CERTIFICATE OF ANALYSIS A0032364

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-009-115	1388 276	4	< 5	50	61	0.0061	157	0.0157	43	0.0043
00-009-116	1388 276	12	15	94	211	0.0211	230	0.0230	57	0.0057
00-009-117	1388 276	8	10	82	164	0.0164	222	0.0222	54	0.0054
00-009-118	1388 276	6	5	40	101	0.0101	126	0.0126	32	0.0032
00-009-119	1388 276	2	5	16	19	0.0019	105	0.0105	32	0.0032
00-009-120	1388 276	6	5	48	101	0.0101	153	0.0153	40	0.0040
00-009-121	1388 276	10	10	114	337	0.0337	355	0.0355	78	0.0078
00-009-122	1388 276	10	15	112	493	0.0493	442	0.0442	100	0.0100
00-009-123	1388 276	8	15	130	265	0.0265	339	0.0339	96	0.0096
00-009-124	1388 276	12	10	120	341	0.0341	644	0.0644	77	0.0077
00-009-125	1388 276	10	5	86	148	0.0148	281	0.0281	81	0.0081
00-009-126	1388 276	4	< 5	20	34	0.0034	138	0.0138	50	0.0050
00-009-127	1388 276	2	< 5	20	21	0.0021	126	0.0126	41	0.0041
00-009-128	1388 276	16	10	96	261	0.0261	233	0.0233	48	0.0048
00-009-129	1388 276	16	10	94	420	0.0420	347	0.0347	93	0.0093
00-009-130	1388 276	14	15	132	546	0.0546	423	0.0423	105	0.0105
00-009-131	1388 276	18	10	132	523	0.0523	412	0.0412	107	0.0107
00-009-132	1388 276	14	15	100	340	0.0340	317	0.0317	82	0.0082
00-009-133	1388 276	4	< 5	28	32	0.0032	89	0.0089	22	0.0022
00-009-134	1388 276	2	15	42	27	0.0027	95	0.0095	26	0.0026
00-009-135	1388 276	6	80	166	39	0.0039	102	0.0102	30	0.0030
00-009-136	1388 276	4	50	196	50	0.0050	98	0.0098	26	0.0026
00-009-137	1388 276	6	10	124	33	0.0033	61	0.0061	14	0.0014
00-009-138	1388 276	2	< 5	56	23	0.0023	67	0.0067	16	0.0016
00-009-139	1388 276	4	10	50	31	0.0031	90	0.0090	22	0.0022
00-009-140	1388 276	4	< 5	36	25	0.0025	65	0.0065	15	0.0015
00-009-141	1388 276	6	10	18	36	0.0036	69	0.0069	18	0.0018
00-009-142	1388 276	10	5	20	52	0.0052	106	0.0106	25	0.0025
00-009-143	1388 276	10	< 5	10	60	0.0060	119	0.0119	26	0.0026
00-009-144	1388 276	4	< 5	16	49	0.0049	192	0.0192	28	0.0028
00-009-145	1388 276	4	< 5	42	36	0.0036	1150	0.1150	63	0.0063
00-009-146	1388 276	< 2	< 5	128	13	0.0013	251	0.0251	43	0.0043
00-009-147	1388 276	< 2	< 5	44	12	0.0012	155	0.0155	44	0.0044
009-STA-127	214 238	308	260	3110	1205	0.1205	1110	0.1110	43	0.0043

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# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

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Page Number :1  
 Total Pages :2  
 Certificate Date: 09-NOV-2000  
 Invoice No. : I0032641  
 P.O. Number :  
 Account : MZI

Project : 00-009  
 Comments : ATTN: MOE LAVIGNE

## CERTIFICATE OF ANALYSIS A0032641

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-009-148	1388 276	4	< 5	24	12	0.0012	166	0.0166	39	0.0039
00-009-149	1388 276	16	< 5	8	126	0.0126	230	0.0230	41	0.0041
00-009-150	1388 276	2	< 5	48	39	0.0039	188	0.0188	36	0.0036
00-009-151	1388 276	2	< 5	30	21	0.0021	150	0.0150	30	0.0030
00-009-152	1388 276	2	< 5	18	18	0.0018	140	0.0140	28	0.0028
00-009-153	1388 276	2	< 5	10	19	0.0019	146	0.0146	30	0.0030
00-009-154	1388 276	4	< 5	28	116	0.0116	85	0.0085	19	0.0019
00-009-155	1388 276	2	< 5	24	23	0.0023	109	0.0109	25	0.0025
00-009-156	1388 276	4	< 5	26	21	0.0021	96	0.0096	46	0.0046
00-009-157	1388 276	2	< 10	42	13	0.0013	77	0.0077	25	0.0025
00-009-158	1388 276	4	5	46	20	0.0020	95	0.0095	29	0.0029
00-009-159	1388 276	4	10	72	35	0.0035	106	0.0106	29	0.0029
00-009-160	1388 276	6	10	124	37	0.0037	102	0.0102	28	0.0028
00-009-161	1388 276	68	115	198	92	0.0092	128	0.0128	26	0.0026
00-009-162	1388 276	26	10	62	427	0.0427	199	0.0199	28	0.0028
00-009-163	1388 276	6	< 5	56	33	0.0033	84	0.0084	23	0.0023
00-009-164	1388 276	60	25	162	1050	0.1050	413	0.0413	36	0.0036
00-009-165	1388 276	4	< 5	32	242	0.0242	108	0.0108	30	0.0030
00-009-166	1388 276	4	< 5	6	95	0.0095	37	0.0037	26	0.0026
00-009-167	1388 276	4	< 5	10	88	0.0088	30	0.0030	16	0.0016
00-009-168	1388 276	4	< 5	10	82	0.0082	32	0.0032	18	0.0018
00-009-169	1388 276	4	< 5	4	76	0.0076	30	0.0030	16	0.0016
00-009-170	1388 276	4	< 5	6	85	0.0085	52	0.0052	18	0.0018
00-009-171	1388 276	4	< 5	10	98	0.0098	36	0.0036	19	0.0019
00-009-172	1388 276	4	< 5	10	92	0.0092	32	0.0032	17	0.0017
00-009-173	1388 276	4	5	10	87	0.0087	41	0.0041	17	0.0017
00-009-174	1388 276	4	< 5	10	83	0.0083	40	0.0040	16	0.0016
00-009-175	1388 276	6	< 5	6	93	0.0093	47	0.0047	19	0.0019
00-009-176	1388 276	4	< 5	10	119	0.0119	42	0.0042	19	0.0019
00-009-177	1388 276	6	< 5	12	115	0.0115	41	0.0041	15	0.0015
00-009-178	1388 276	6	10	10	118	0.0118	45	0.0045	17	0.0017
00-009-179	1388 276	8	< 5	12	132	0.0132	43	0.0043	16	0.0016
00-009-180	1388 276	6	5	14	121	0.0121	40	0.0040	16	0.0016
00-009-181	1388 276	6	10	16	81	0.0081	38	0.0038	16	0.0016
00-009-182	1388 276	4	10	16	75	0.0075	41	0.0041	18	0.0018
00-009-183	1388 276	4	5	14	56	0.0056	33	0.0033	14	0.0014
00-009-184	1388 276	6	10	16	78	0.0078	38	0.0038	17	0.0017
00-009-185	1388 276	4	5	18	74	0.0074	39	0.0039	16	0.0016
00-009-186	1388 276	6	< 5	22	109	0.0109	44	0.0044	18	0.0018
00-009-187	1388 276	6	< 5	18	77	0.0077	45	0.0045	18	0.0018

CERTIFICATION: \_\_\_\_\_





# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

Project : 00-009  
 Comments: ATTN: MOE LAVIGNE

Page Number :2  
 Total Pages :2  
 Certificate Date: 09-NOV-2000  
 Invoice No. :10032641  
 P.O. Number :  
 Account :MZI

## CERTIFICATE OF ANALYSIS A0032641

SAMPLE	PREP CODE		Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-009-188	1388	276	6	5	18	92	0.0092	55	0.0055	19	0.0019
00-009-189	1388	276	16	15	40	265	0.0265	76	0.0076	20	0.0020
00-009-190	1388	276	16	15	80	270	0.0270	141	0.0141	55	0.0055
00-009-191	1388	276	6	5	18	78	0.0078	55	0.0055	20	0.0020
00-009-192	1388	276	6	< 5	20	93	0.0093	59	0.0059	20	0.0020
009-STA-138	214	238	380	340	3450	1275	0.1275	1130	0.1130	42	0.0042

CERTIFICATION: \_\_\_\_\_



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

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Page Number : 1  
 Total Pages : 2  
 Certificate Date: 13-NOV-2000  
 Invoice No. : 10032827  
 P.O. Number :  
 Account : MZI

Project : 00-009  
 Comments: ATTN: MOE LAVIGNE

## CERTIFICATE OF ANALYSIS A0032827

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Pd g/t	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-009-193	1388 276	2	< 5	18	-----	74	0.0074	70	0.0070	21	0.0021
00-009-194	1388 276	2	5	22	-----	64	0.0064	84	0.0084	27	0.0027
00-009-195	1388 276	2	10	18	-----	72	0.0072	79	0.0079	24	0.0024
00-009-196	1388 276	2	5	22	-----	57	0.0057	83	0.0083	27	0.0027
00-009-197	1388 276	< 2	< 5	20	-----	54	0.0054	60	0.0060	20	0.0020
00-009-198	1388 276	< 2	10	20	-----	58	0.0058	66	0.0066	22	0.0022
00-009-199	1388 276	< 2	10	20	-----	63	0.0063	60	0.0060	21	0.0021
00-009-200	1388 276	< 2	< 5	20	-----	66	0.0066	59	0.0059	20	0.0020
00-009-201	1388 276	< 2	< 5	20	-----	52	0.0052	57	0.0057	20	0.0020
00-009-202	1388 276	2	< 5	18	-----	45	0.0045	59	0.0059	22	0.0022
00-009-203	1388 276	< 2	< 5	22	-----	27	0.0027	60	0.0060	21	0.0021
00-009-204	1388 276	14	< 5	4	-----	11	0.0011	176	0.0176	45	0.0045
00-009-205	1388 276	< 2	< 5	4	-----	8	0.0008	163	0.0163	41	0.0041
00-009-206	1388 276	< 2	5	24	-----	56	0.0056	71	0.0071	24	0.0024
00-009-207	1388 276	< 2	< 5	20	-----	53	0.0053	72	0.0072	26	0.0026
00-009-208	1388 276	2	< 5	24	-----	66	0.0066	50	0.0050	18	0.0018
00-009-209	1388 276	4	< 5	22	-----	68	0.0068	52	0.0052	18	0.0018
00-009-210	1388 276	2	< 5	20	-----	44	0.0044	50	0.0050	19	0.0019
00-009-211	1388 276	< 2	< 5	18	-----	63	0.0063	49	0.0049	18	0.0018
00-009-212	1388 276	2	5	18	-----	64	0.0064	46	0.0046	17	0.0017
00-009-213	1388 276	< 2	5	20	-----	52	0.0052	45	0.0045	15	0.0015
00-009-214	1388 276	< 2	5	24	-----	68	0.0068	49	0.0049	18	0.0018
00-009-215	1388 276	2	< 5	20	-----	67	0.0067	51	0.0051	19	0.0019
00-009-216	1388 276	4	< 5	20	-----	61	0.0061	51	0.0051	19	0.0019
00-009-217	1388 276	2	< 5	18	-----	76	0.0076	49	0.0049	18	0.0018
00-009-218	1388 276	< 2	5	18	-----	56	0.0056	53	0.0053	18	0.0018
00-009-219	1388 276	2	< 5	18	-----	61	0.0061	50	0.0050	19	0.0019
00-009-220	1388 276	4	10	24	-----	74	0.0074	51	0.0051	16	0.0016
00-009-221	1388 276	4	5	44	-----	138	0.0138	72	0.0072	16	0.0016
00-009-222	1388 276	10	5	68	-----	184	0.0184	90	0.0090	26	0.0026
00-009-223	1388 276	28	20	116	-----	567	0.0567	209	0.0209	24	0.0024
00-009-224	1388 276	74	30	154	-----	1370	0.1370	406	0.0406	36	0.0036
00-009-225	1388 276	170	110	300	-----	2050	0.2050	724	0.0724	70	0.0070
00-009-226	1388 276	98	135	830	-----	855	0.0855	380	0.0380	42	0.0042
00-009-227	1388 276	54	120	1535	-----	316	0.0316	234	0.0234	38	0.0038
00-009-228	1388 276	216	225	2820	-----	636	0.0636	417	0.0417	36	0.0036
00-009-229	1388 276	552	790	>10000	-----	1020	0.1020	866	0.0866	34	0.0034
00-009-230	1388 276	1250	650	>10000	-----	1315	0.1315	1290	0.1290	54	0.0054
00-009-231	1388 276	62	310	5170	-----	43	0.0043	288	0.0288	31	0.0031
00-009-232	1388 276	244	710	>10000	-----	363	0.0363	420	0.0420	34	0.0034

CERTIFICATION:



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

Project : 00-009  
 Comments: ATTN: MOE LAVIGNE

Page Number :2  
 Total Pages :2  
 Certificate Date: 13-NOV-2000  
 Invoice No. : I0032827  
 P.O. Number :  
 Account : MZI

## CERTIFICATE OF ANALYSIS A0032827

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Pd g/t	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-009-233	1388 276	194	510	7380	-----	175	0.0175	379	0.0379	35	0.0035
00-009-234	1388 276	1320	415	4390	-----	296	0.0296	614	0.0614	38	0.0038
00-009-235	1388 276	884	190	696	-----	2030	0.2030	2160	0.2160	66	0.0066
00-009-236	1388 276	674	115	584	-----	2370	0.2370	2140	0.2140	64	0.0064
00-009-237	1388 276	528	170	790	-----	2270	0.2270	2490	0.2490	67	0.0067
00-009-238	1388 276	84	155	1335	-----	241	0.0241	508	0.0508	26	0.0026
00-009-239	1388 276	364	235	1685	-----	761	0.0761	871	0.0871	36	0.0036
00-009-240	1388 276	14	15	128	-----	71	0.0071	139	0.0139	19	0.0019
00-009-241	1388 276	14	65	752	-----	39	0.0039	150	0.0150	19	0.0019
00-009-242	1388 276	16	75	638	-----	46	0.0046	139	0.0139	19	0.0019
00-009-243	1388 276	132	195	2410	-----	891	0.0891	415	0.0415	32	0.0032
00-009-244	1388 276	50	150	1315	-----	98	0.0098	280	0.0280	25	0.0025
00-009-245	1388 276	26	75	1005	-----	72	0.0072	149	0.0149	17	0.0017
00-009-246	1388 276	22	30	228	-----	62	0.0062	98	0.0098	13	0.0013
00-009-247	1388 276	50	165	1785	-----	127	0.0127	218	0.0218	24	0.0024
00-009-248	1388 276	10	50	540	-----	63	0.0063	104	0.0104	15	0.0015
00-009-249	1388 276	< 2	45	164	-----	15	0.0015	88	0.0088	12	0.0012
00-009-250	1388 276	12	60	590	-----	65	0.0065	117	0.0117	17	0.0017
00-009-251	1388 276	14	190	2460	-----	47	0.0047	122	0.0122	17	0.0017
00-009-252	1388 276	16	115	1225	-----	28	0.0028	148	0.0148	20	0.0020
00-009-253	1388 276	4	35	146	-----	26	0.0026	145	0.0145	19	0.0019
00-009-254	1388 276	2	40	302	-----	77	0.0077	148	0.0148	19	0.0019
00-009-255	1388 276	2	20	88	-----	105	0.0105	133	0.0133	20	0.0020
00-009-256	1388 276	4	50	502	-----	33	0.0033	102	0.0102	15	0.0015
00-009-257	1388 276	48	190	3940	-----	33	0.0033	123	0.0123	15	0.0015
00-009-258	1388 276	8	45	408	-----	65	0.0065	93	0.0093	15	0.0015
00-009-259	1388 276	2	35	330	-----	23	0.0023	100	0.0100	14	0.0014
00-009-260	1388 276	14	130	1020	-----	37	0.0037	108	0.0108	16	0.0016
00-009-261	1388 276	44	135	1120	-----	128	0.0128	153	0.0153	20	0.0020
00-009-262	1388 276	144	240	1495	-----	235	0.0235	301	0.0301	26	0.0026
00-009-263	1388 276	234	85	334	-----	583	0.0583	526	0.0526	36	0.0036
009-STA-148	1388 276	290	350	3340	-----	1205	0.1205	1145	0.1145	41	0.0041

CERTIFICATION:



# ALS Chemex

Aurora Laboratory Services Ltd.  
Analytical Chemists \* Geochemists \* Registered Assayers  
5175 Timberlea Blvd., Mississauga  
Ontario, Canada L4W 2S3  
PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.-EXPLORATION  
NORTH AMERICAN PALLADIUM  
P.O. BOX 10547  
THUNDER BAY, ON  
P7B 6T9

Page Number :1-B  
Total Pages :1  
Certificate Date: 22-AUG-2001  
Invoice No. :I0122387  
P.O. Number :1000203  
Account :MZI

Project : #1033-00-009  
Comments: ATTN: MOE LAVIGNE

**CERTIFICATE OF ANALYSIS                      A0122387**

SAMPLE	PREP CODE	Cr ppm (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % P (ICP)	P ppm (ICP)	Pb ppm (ICP)	Sb ppm (ICP)	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)	Cu ppm (ICP)	Ni ppm (ICP)	Co ppm (ICP)
00-009-264	1388 276	168	0.22	5.89	745	< 1	1.24	< 10	6	5	171	0.05	64	< 10	36	414	672	50
00-009-265	1388 276	189	0.20	5.53	790	1	0.86	< 10	6	15	149	0.05	73	10	42	1020	1035	60
00-009-266	1388 276	129	0.30	5.15	785	40	1.25	< 10	8	15	170	0.07	92	20	50	449	536	50
00-009-267	1388 276	124	0.32	4.64	745	< 1	1.36	< 10	14	5	183	0.08	89	10	66	630	539	45
00-009-268	1388 276	139	0.25	5.06	815	1	1.24	< 10	< 2	5	176	0.08	95	< 10	40	686	786	56
00-009-269	1388 276	135	0.17	4.35	680	1	1.19	< 10	< 2	5	165	0.06	82	10	32	262	400	40
00-009-270	1388 276	161	0.35	4.42	725	1	1.40	< 10	4	< 5	181	0.06	81	< 10	36	653	800	50
00-009-271	1388 294	143	0.38	4.24	705	< 1	1.32	< 10	6	5	190	0.05	81	< 10	34	1955	1890	62
00-009-272	1388 294	147	0.17	4.76	735	< 1	1.30	< 10	6	20	185	0.06	90	< 10	34	608	771	50
00-009-273	1388 294	67	0.22	2.78	435	< 1	1.75	< 10	2	10	263	0.03	35	10	26	95	240	27
00-009-274	1388 276	54	0.24	2.37	390	1	1.82	< 10	2	5	259	0.03	32	10	18	239	419	28
00-009-275	1388 294	74	0.23	2.50	425	< 1	1.83	< 10	2	5	257	0.04	37	10	22	93	198	27
00-009-276	1388 294	84	0.23	2.52	425	1	1.80	< 10	< 2	< 5	256	0.03	36	< 10	22	46	146	24
00-009-277	1388 276	71	0.23	2.93	475	1	1.71	< 10	8	5	268	0.04	43	< 10	24	43	165	29
00-009-278	1388 276	76	0.18	2.91	480	3	1.68	< 10	12	15	258	0.03	44	10	24	53	169	27
00-009-279	1388 276	63	0.26	2.86	455	< 1	1.70	< 10	2	15	269	0.04	45	10	24	51	181	30
00-009-280	1388 276	67	0.17	2.98	495	1	1.62	< 10	2	5	261	0.04	49	< 10	24	29	172	28
00-009-281	1388 276	77	0.18	3.06	515	< 1	1.57	< 10	30	10	261	0.04	52	< 10	28	46	172	30
00-009-282	1388 276	71	0.31	3.34	555	< 1	1.75	< 10	6	15	262	0.04	54	10	26	52	183	32
00-009-283	1388 276	106	0.29	3.38	550	1	1.68	< 10	14	15	253	0.04	56	< 10	30	46	182	31
00-009-284	1388 276	65	0.19	3.38	590	< 1	1.61	< 10	< 2	15	265	0.05	61	10	30	62	189	34
00-009-285	1388 276	68	0.20	3.41	605	< 1	1.73	< 10	10	< 5	280	0.06	74	< 10	32	72	186	35
00-009-286	1388 276	61	0.16	3.25	595	2	1.66	< 10	2	5	271	0.05	62	10	34	53	172	32
00-009-287	1388 294	69	0.15	3.30	575	3	1.69	< 10	6	5	264	0.05	60	10	32	54	177	34
00-009-288	1388 276	65	0.22	3.18	575	1	1.69	< 10	8	15	261	0.05	60	< 10	32	60	169	33
00-009-289	1388 276	56	0.21	3.25	595	4	1.87	< 10	2	10	279	0.04	60	< 10	30	54	169	33
00-009-290	1388 294	71	0.25	3.56	655	< 1	1.75	< 10	12	5	272	0.06	76	10	30	69	184	36
00-009-291	1388 294	62	0.32	3.26	585	< 1	1.73	< 10	< 2	10	268	0.05	65	< 10	30	66	156	34
00-009-292	1388 226	59	0.09	3.40	495	7	1.23	< 10	12	5	144	0.05	67	80	34	19	138	24
00-009-293	1388 276	62	0.35	3.35	605	3	1.83	< 10	< 2	< 5	273	0.05	68	10	30	55	159	33
00-009-294	1388 276	67	0.28	3.68	660	< 1	1.89	< 10	2	5	294	0.06	75	10	34	100	172	36
00-009-295	1388 276	68	0.24	3.33	625	2	1.83	< 10	8	< 5	280	0.06	75	< 10	32	68	159	35
00-009-296	1388 294	72	0.24	3.37	630	< 1	1.66	< 10	6	< 5	257	0.06	71	10	34	72	155	34
00-009-297	1388 294	78	0.25	3.23	615	< 1	1.77	< 10	2	5	255	0.05	69	10	32	62	151	34
00-009-STA-216	2148 285	205	0.23	5.67	835	< 1	1.18	< 10	6	5	161	0.07	89	10	54	1200	1335	60

CERTIFICATION: \_\_\_\_\_ +



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.-EXPLORATION  
 NORTH AMERICAN PALLADIUM  
 P.O. BOX 10547  
 THUNDER BAY, ON  
 P7B 6T9

Page Number : 1-B  
 Total Pages : 2  
 Certificate Date: 23-AUG-2001  
 Invoice No. : 10122453  
 P.O. Number : 1000205  
 Account : MZI

Project : #1033-00-009  
 Comments: ATTN: MOE LAVIGNE

## CERTIFICATE OF ANALYSIS A0122453

SAMPLE	PREP CODE	Cr ppm (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	P ppm (ICP)	Pb ppm (ICP)	Sb ppm (ICP)	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)	Cu ppm (ICP)	Ni ppm (ICP)	Co ppm (ICP)
00-009-STA-218	2148285	177	0.24	5.75	850	< 1	1.05	< 10	< 2	5	169	0.07	91	< 10	48	1280	1395	65
00-009-298	1388 226	76	0.29	3.16	625	< 1	1.68	< 10	< 2	< 5	283	0.05	71	10	26	83	158	34
00-009-299	1388 276	67	0.23	2.96	600	1	1.58	< 10	< 2	10	263	0.05	66	< 10	22	68	142	33
00-009-300	1388 276	74	0.20	3.01	595	< 1	1.63	< 10	< 2	< 5	267	0.05	68	< 10	28	76	140	32
00-009-301	1388 276	57	0.25	2.69	540	< 1	1.68	< 10	< 2	< 5	271	0.05	58	< 10	24	91	122	30
00-009-302	1388 276	49	0.26	2.39	510	1	1.62	< 10	< 2	5	257	0.04	58	< 10	20	58	118	28
00-009-303	1388 276	50	0.24	2.70	555	< 1	1.66	< 10	< 2	5	264	0.05	59	< 10	26	67	123	29
00-009-304	1388 276	54	0.41	2.83	595	< 1	1.50	< 10	< 2	5	322	0.05	66	< 10	22	55	130	32
00-009-305	1388 276	65	0.50	2.81	590	1	1.65	< 10	< 2	10	282	0.05	68	< 10	22	56	137	32
00-009-306	1388 276	54	0.37	2.86	615	< 1	1.69	< 10	< 2	< 5	302	0.05	65	< 10	30	48	137	31
00-009-307	1388 276	32	0.53	1.17	300	1	2.60	1080	< 2	< 5	928	0.24	47	< 10	34	51	40	15
00-009-308	1388 226	40	0.93	1.52	380	< 1	2.40	1080	< 2	10	1145	0.24	55	10	34	49	54	15
00-009-309	1388 294	55	0.32	2.83	610	< 1	1.62	< 10	< 2	5	278	0.07	75	< 10	24	51	130	33
00-009-310	1388 276	66	0.37	2.74	600	< 1	1.68	< 10	< 2	5	250	0.05	65	10	26	41	126	31
00-009-311	1388 276	61	0.58	2.78	645	< 1	1.80	< 10	< 2	5	258	0.05	67	< 10	28	53	127	31
00-009-312	1388 276	54	0.29	2.74	565	< 1	1.56	< 10	< 2	5	256	0.05	65	< 10	26	64	126	31
00-009-313	1388 276	49	0.12	2.55	540	< 1	1.50	< 10	< 2	< 5	254	0.05	65	< 10	22	58	117	28
00-009-314	1388 276	54	0.19	2.70	565	< 1	1.45	< 10	< 2	5	240	0.05	64	< 10	24	77	129	31
00-009-315	1388 276	55	0.16	3.03	595	< 1	1.78	< 10	8	10	268	0.06	76	< 10	32	71	138	33
00-009-316	1388 276	53	0.37	2.94	585	5	1.89	< 10	8	15	271	0.06	75	10	30	50	131	30
00-009-317	1388 276	56	0.19	3.11	630	< 1	1.77	< 10	12	5	277	0.07	79	< 10	32	55	144	34
00-009-318	1388 276	59	0.15	2.91	590	1	1.64	< 10	8	5	250	0.06	76	< 10	30	57	133	31
00-009-319	1388 276	59	0.17	3.17	610	3	1.78	< 10	10	5	271	0.06	80	< 10	30	46	141	33
00-009-320	1388 276	58	0.18	3.11	620	< 1	1.82	< 10	12	20	279	0.06	84	< 10	30	60	144	35
00-009-321	1388 276	56	0.27	3.18	670	< 1	1.81	< 10	16	20	263	0.06	80	< 10	34	61	144	34
00-009-322	1388 276	64	0.29	3.36	685	< 1	1.72	< 10	8	< 5	252	0.06	85	< 10	36	63	162	36
00-009-323	1388 276	33	0.29	2.79	580	1	1.81	< 10	8	15	257	0.07	82	< 10	30	69	130	30
00-009-324	1388 276	45	0.44	2.84	570	1	2.05	< 10	6	5	283	0.08	73	< 10	36	56	133	30
00-009-325	1388 276	62	0.26	3.56	730	1	1.85	< 10	2	15	268	0.08	96	< 10	38	76	171	37
00-009-326	1388 276	70	0.28	3.35	675	< 1	1.76	< 10	10	15	250	0.08	97	10	36	78	164	36
00-009-327	1388 276	74	0.33	3.58	715	1	1.74	< 10	8	5	258	0.10	107	< 10	36	81	167	39
00-009-328	1388 276	67	0.54	3.13	650	< 1	1.97	100	4	20	245	0.13	100	< 10	36	47	160	35
00-009-329	1388 226	58	0.57	3.59	740	1	1.79	40	14	< 5	254	0.11	110	< 10	42	134	192	40
00-009-330	1388 226	4	0.56	1.23	825	2	2.49	1080	14	15	339	0.62	146	< 10	92	64	11	28
00-009-331	1388 276	26	0.42	1.85	715	1	3.04	1200	16	5	445	0.63	157	< 10	66	33	27	28
00-009-332	1388 226	64	0.85	3.94	850	< 1	2.00	< 10	18	5	266	0.10	107	20	50	57	200	43
00-009-333	1388 226	55	0.69	4.05	925	3	1.79	< 10	8	10	270	0.12	129	< 10	52	107	205	45
00-009-334	1388 276	88	0.42	3.91	820	1	1.59	10	12	15	234	0.11	107	10	50	69	214	43
00-009-335	1388 276	56	0.28	4.12	970	3	1.70	< 10	8	5	248	0.12	124	< 10	60	108	192	46
00-009-336	1388 276	35	0.34	3.55	1070	1	1.78	10	10	10	266	0.17	160	< 10	72	124	152	49

CERTIFICATION: \_\_\_\_\_ +



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.-EXPLORATION  
 NORTH AMERICAN PALLADIUM  
 P.O. BOX 10547  
 THUNDER BAY, ON  
 P7B 6T9

Page Number :2-A  
 Total Pages :2  
 Certificate Date: 23-AUG-2001  
 Invoice No. : I0122453  
 P.O. Number : 1000205  
 Account : MZI

Project : #1033-00-009  
 Comments : ATTN: MOE LAVIGNE

## CERTIFICATE OF ANALYSIS A0122453

SAMPLE	PREP CODE		Pd ppb	Pt ppb	Au ppb	Al2O3 % Calc	Fe2O3 % Calc	MgO % Calc	Cu % calc.	Ni % calc.	Co % calc.	Fe % (ICP)	S % (ICP)	Ag ppm (ICP)	Al % (ICP)	As ppm (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)
	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS	% Calc	% Calc	% Calc	calc.	calc.	calc.	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)
00-009-337	1388	226	7	5.5	4	14.90	8.05	5.59	0.0086	0.0143	0.0042	5.63	0.08	< 0.5	7.89	15	80	< 0.5	< 2	6.4	1.0
00-009-338	1388	294	6	5.0	3	15.25	8.61	5.74	0.0107	0.0159	0.0047	6.02	0.09	< 0.5	8.06	5	100	< 0.5	< 2	6.6	1.5
00-009-339	1388	294	< 1	< 0.5	< 1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
00-009-340	1388	276	< 1	< 0.5	3	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
00-009-341	1388	276	< 1	< 0.5	< 1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
00-009-342	1388	276	< 1	< 0.5	< 1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
00-009-343	1388	276	< 1	< 0.5	< 1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
00-009-344	1388	276	< 1	< 0.5	< 1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
00-009-345	1388	276	< 1	< 0.5	< 1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
00-009-346	1388	276	< 1	< 0.5	< 1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
00-009-347	1388	276	< 1	< 0.5	< 1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
00-009-348	1388	276	< 1	< 0.5	< 1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
00-009-349	1388	276	< 1	< 0.5	< 1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
00-009-350	1388	276	< 1	< 0.5	< 1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
00-009-351	1388	276	< 1	< 0.5	< 1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
00-009-352	1388	226	< 1	< 0.5	< 1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
00-009-353	1388	294	< 1	< 0.5	< 1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
00-009-STA-219	214	3285	3200	299	350	12.70	6.16	8.67	0.1170	0.1400	0.0065	4.31	0.35	0.5	6.71	15	40	< 0.5	< 2	5.5	1.0

CERTIFICATION: \_\_\_\_\_ +

# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.

LAC DES ILES MINES LTD.

PROPERTY:	LAC DES ILES	CLAIM NUMBER:	253	DOWNHOLE SURVEY METHOD:	Maxibor	DRILLING COMPANY:	CHIBOUGAMAU
HOLE NO.:	00-126	LENGTH: (m)	943.50m	CORE SIZE:	NQ	REMARKS:	Core stored at Lac des Iles mine site
LOCATION - MINE GRID		NORTHING:	32044.491	EASTING:	32496.165		Ext. logged Aug. 1 & 2, 2001
SECTION:	506N	ZONE:	Twilight/S.Roby	ELEVATION:	502.651	DATE LOGGED:	Oct. 28 - Nov. 4, 2000
COLLAR ORIENTATION (AZIMUTH / DIP);	PLANNED:	251/-50°	SURVEYED:	248.442/-49.883°		LOGGED: K. Nelson	SIGNATURE: <i>[Signature]</i>
HOLE STARTED:	27-Oct-00	HOLE FINISHED:	28-Jul-01	MAG DECLINATION:	2.1° w	J. Rickard	SHEET 1 OF 36

METERAGE		DESCRIPTION	Rock Code	SAMPLES						ASSAYS								
FROM	TO			Alt <sup>n</sup>	Bx Matrix		No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
				Plag	Pxr	Comp												
0.00	4.50	OVERBURDEN																
4.51	114.59	NORITE/GABBRONORITE AND MELANOGABBRONORITE  Mostly a dark brown to greenish-brown norite-gabbro-norite with pods of melanogabbronorite which is a dark greyish-green. The whole unit is coarse grained fairly equigranular and uniform. The melanogabbronorite has weak to moderate mottling due to differential concentration of Plag. The two lithologies are distinctive due to Plag content and change in Opx type (fresh/brown vs. tremolite). Contacts vary from gradational to fairly sharp. Predominantly a norite/gabbronorite with ~10% melanogabbronorite in sections generally <1m in length.  Norite/gabbronorite: Roughly equal amounts of Plag and pyroxene with 45-55% Plag, 40-50% Opx and <5-15% Cpx. It is mostly noritic but Cpx grades in enough to be gabbronorite in part. Moderate actinolite and weak to moderate tremolite as Opx is more often as the fresh brown variety with lesser tremolite. Plag is pervasively stained a dark brownish-pink which makes the rock look more melano than it really is. Moderately magnetic. Occasionally grades through grey section which are tremolitic.  Melanogabbronorite: Very dark and dense looking. Amount of the different																
						3	4.51	6.00	1.49	nil		0.10	0.01	0.01	0.006	0.009	0.002	
						3	6.00	9.00	3.00	nil		0.08	0.00	0.00	0.005	0.010	0.002	
						3	9.00	12.00	3.00	nil		0.09	0.01	0.00	0.005	0.008	0.002	
						3	12.00	15.00	3.00	nil		0.08	0.02	0.00	0.005	0.008	0.002	
						3	15.00	18.00	3.00	nil		0.08	0.02	0.01	0.006	0.010	0.002	
						3	18.00	21.00	3.00	nil		0.11	0.02	0.01	0.006	0.007	0.001	
						3	21.00	24.00	3.00	nil		0.11	0.03	0.01	0.004	0.007	0.002	
						3	24.00	26.35	2.35	nil		0.11	0.02	0.00	0.006	0.008	0.002	
						3	26.35	28.36	2.01	nil		0.17	0.05	0.01	0.004	0.017	0.004	
						3	28.36	30.00	1.64	nil		0.13	0.05	0.01	0.004	0.009	0.002	
						3	30.00	33.00	3.00	0.25		0.96	0.16	0.05	0.028	0.019	0.002	
						3	33.00	34.80	1.80	0.25		0.17	0.01	0.01	0.006	0.009	0.002	
						3	34.80	36.00	1.20	0.25		0.86	0.13	0.09	0.038	0.032	0.004	
						3	36.00	39.00	3.00	0.25		0.12	0.01	0.01	0.011	0.016	0.004	
						3	39.00	42.00	3.00	nil		0.94	0.10	0.08	0.058	0.023	0.004	
						3	42.00	43.68	1.68	tr		0.22	0.05	0.01	0.010	0.014	0.004	
						3	43.68	45.00	1.32	nil		0.12	0.04	0.01	0.006	0.010	0.002	
						3	45.00	48.00	3.00	nil		0.16	0.04	0.00	0.004	0.007	0.001	
						3	48.00	51.00	3.00	nil		0.18	0.03	0.01	0.006	0.009	0.002	
						3	51.00	54.00	3.00	nil		0.16	0.04	0.00	0.004	0.007	0.001	
						3	54.00	57.00	3.00	nil		0.10	0.02	0.01	0.005	0.008	0.001	
						3	57.00	60.00	3.00	nil		0.08	0.02	0.01	0.008	0.008	0.001	
						3	60.00	63.00	3.00	tr		0.10	0.02	0.01	0.008	0.007	0.001	
						3	63.00	66.00	3.00	tr		0.12	0.02	0.01	0.007	0.006	0.001	
						3	66.00	69.00	3.00	nil		0.12	0.03	0.01	0.006	0.008	0.001	
						3	69.00	72.00	3.00	nil		0.10	0.01	0.01	0.007	0.010	0.002	









# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Twilight/S.Roby HOLE # 00-126

LOGGED BY: K. Nelson SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>m</sup>		SAMPLES						ASSAYS								
FROM	TO		Plag	Pxr	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %			
4.51	114.59	<p><b>NORITE/GABBRONORITE AND MELANOGABBRONORITE(continued)</b></p> <p>websterite. Gradational Lower contact.</p> <p>87.85m - 107.00m: Norite/gabbronorite. Mineralization is variable, from nil to 1% chalcopyrite/pyrrhotite as very tiny blebs which can be distributed along the core length or localized up to 10% (e.g. at 104.70m - 104.85m).</p> <p>107.00m - 114.59m: Alternating sections of pyroxenite and gabbronorite. Possibly a breccia.</p> <p>At 114.59m: Sharp lower contact at 45° to core axis.</p>																	
114.59	140.20		<p><b>GABBRO+/-VARITEXTURED GABBRO BRECCIA</b></p> <p>Moderate greenish grey and mottled white. Coarse grained, pyroxene porphyritic and blotchy looking. Pyroxenes are weak to moderately notched by Plag, which is possibly recrystallized, and has an angular appearance. More Plag than pyroxenes, mostly gabbro but grading through leuco-gabbro. Plag 55-75%; Cpx 25-45%. Weak to moderate actinolite. Plag is white/fresh to locally purplish-pink (potassic) altered to stained light green. Localized, small patches of yellowish-green saussurite alteration. Occasional felsic dikelet &lt;1cm thick. Moderately mottled by mafic, healed hairline fractures at various orientations to core axis. Some sections (as indicated in sample descriptions) are brecciated by fine to medium grained varitextured gabbro. Mineralization is quite low with nil to 0.75% pyrite and nil to 0.5% chalcopyrite/pyrrhotite as fine grained disseminations and tiny blebs.</p> <p>128.40m - 129.12m: First 20cm are a blotchy altered intermediate dike with sharp contacts at 30-35° to core axis. Semi-massive pyrite</p>	2	2/3	Vgab	50	045	114.59	117.00	2.41	1.00	1:3	0.09	0.00	0.03	0.046	0.014	0.003
				2	2/3	Vgab	25	046	117.00	119.33	2.33	1.25		0.37	0.07	0.05	0.108	0.030	0.003
				2	2/3			047	119.33	120.00	0.67	0.25		0.08	0.01	0.01	0.020	0.010	0.002
				2	2/3			048	120.00	123.00	3.00	0.50		0.05	0.00	0.00	0.017	0.009	0.002
				2	2/3			049	123.00	126.00	3.00	0.25		0.03	0.00	0.00	0.015	0.007	0.002
				2	2/3			050	126.00	128.40	2.40	nil		0.02	0.00	0.00	0.006	0.006	0.001
				3	3			051	128.40	129.12	0.72	0.50		0.04	0.00	0.06	0.035	0.054	0.009
				3	3			052	129.12	132.23	3.11	0.50		0.03	0.00	0.00	0.011	0.008	0.001
				3	3			053	132.23	134.87	2.64	2.00		0.32	0.04	0.03	0.064	0.039	0.004
		3		3	Vgab	80	054	134.87	138.00	3.13	2.00		0.64	0.10	0.07	0.138	0.071	0.005	
		3	3			055	138.00	140.20	2.20	2.00		0.10	0.01	0.01	0.025	0.010	0.002		

# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Twilight/S.Roby HOLE # 00-126

LOGGED BY: K. Nelson SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>				SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
114.59	140.20	<p><b>GABBRO+/-VARITEXTURED GABBRO BRECCIA (continued)</b> along upper margin including two beds of pyrite at 1-1.5cm thick. The rest of the section is altered gabbro with pods of altered intermediate dike. Sharp upper contact along a shear at 25° to core axis.</p> <p>At 129.12m: Core is slightly more altered with more pervasive purplish-pink (potassic) alteration. There are also occasional narrow (&lt;3cm) zones of shearing/foliation at 30-40° to core axis. There is also an increase in mineralization which also becomes blebbier, up to 0.5cm long and includes fine to medium grained disseminated crystals. Ranges from 0.5-2% Pyrite.</p> <p>140.20m: Lower contact is fairly abrupt but wavy, probably averaging 25° to core axis and taken where first heterolithic clast appears.</p>																
140.20	151.89	<p><b>HETEROLITHIC BRECCIA</b></p> <p>Short, alternating sections of various lithologies which may be a breccia. Composition and alteration as described below. Contacts between sections are fairly sharp. Mineralization is limited to the different lithologies.</p> <p>140.20m - 143.90m: Coarse grained, dark greenish-grey pyroxenite with ~45cm sections of coarse grained gabbro. Moderate actinolite and weak to moderate localized purplish-pink (potassic) alteration. Pyroxenite has moderate talc. 0.25% pyrite and 0.25% chalcopyrite as fine grained disseminations and tiny blebs.</p> <p>143.90m - 146.71m: Dark brown norite. Weak to moderate tremolite and Plag is dark brownish-pink stained. Some fractures have dark green serpentine. Grains tend to flow into each other rather than being individually distinguishable. No sulphides.</p>																
			3	3			056	140.20	141.00	0.80	0.25	1:0	0.21	0.02	0.02	0.025	0.013	0.004
			2/3	2/3			057	141.00	144.00	3.00	0.25	1:0	0.20	0.04	0.03	0.036	0.018	0.003
			2/3	2/3			058	144.00	147.00	3.00	0.25	1:0	0.18	0.04	0.03	0.041	0.020	0.002
			3	3/4			059	147.00	150.00	3.00	2.25	1:3	0.85	0.14	0.17	0.225	0.142	0.007
							059B	BLANK SAMPLE										
			3	2/4			060	150.00	151.89	1.89	1.50	1:3	0.61	0.08	0.09	0.185	0.087	0.005

# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.  
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PROPERTY LDI ZONE Twilight/S.Roby HOLE # 00-126

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METERAGE		DESCRIPTION	Alt <sup>n</sup>		SAMPLES						ASSAYS					
FROM	TO		Plag	Pxr	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
140.20	151.89	<b>HETEROLITHIC BRECCIA (continued)</b>  146.71m - 147.46m: Coarse to medium grained, slightly pyroxene porphyritic gabbro. Pyroxenes slightly notched by Plag. 1%pyrite and 0.25% chalcopyrite as fine grained disseminations and tiny blebs.  147.46m - 150.77m: Well altered gabbro. Pyroxene grain outlines completely indistinguishable so grain size is unknown. Pods of very coarse grained pyroxene porphyritic texture visible - may be varitextured gabbro or else have late stage dikelets. Minor brownish Opx visible. Plag is pervasively dark purplish-pink. Well mineralized with 1-2% sulphides (chalcopyrite/pyrrhotite) which tend to be very blebby in the very coarse grained porphyritic sections. Blebs are up to 3cm long and are up to 10% locally.  150.77m - 151.89m: Fine grained brownish-green gabbronorite with ~1% very fine grained tiny blebs of chalcopyrite/pyrrhotite. Plag is dark brownish-pink and Opx is brown and fairly fresh.  At 151.89m: Sharp lower contact at ~55° to core axis.														
151.89	210.53	<b>GABBRO</b>  Fine grained to locally medium grained. Dark greyish-green fairly equigranular, uniform and massive. Approximately equal Plag and pyroxene with 45-55% Plag and 45-55% Cpx. Moderate actinolite throughout and locally Cpx is very altered with grain outlines indistinguishable. Plag is generally altered weak to moderate purplish-pink (potassic) but is locally fresh and white. Differential alteration to Plag gives core slightly mottled look. Only the occasional felsic	3	3	061	151.89	153.00	1.11	0.75	1:0	0.12	0.02	0.01	0.033	0.015	0.002
			3	3/4	062	153.00	156.00	3.00	0.75	1:0	0.22	0.03	0.03	0.057	0.034	0.003
			3	2/3	063	156.00	159.00	3.00	0.25	1:0	0.03	0.00	0.01	0.018	0.007	0.002
			3	2/3	064	159.00	162.00	3.00	0.25	1:0	0.08	0.02	0.01	0.016	0.006	0.002
			3	2/3	065	162.00	165.00	3.00	0.25		0.02	0.00	0.00	0.039	0.016	0.002
			3	4	066	165.00	168.00	3.00	0.25	1:0	0.12	0.01	0.02	0.027	0.009	0.002
			3	3/4	067	168.00	171.00	3.00	0.75	1:0	0.34	0.03	0.04	0.079	0.026	0.003
			3	3/4	068	171.00	174.00	3.00	0.75	1:0	0.05	0.00	0.01	0.035	0.013	0.003
			3	3/4	069	174.00	177.00	3.00	0.25		0.04	0.00	0.01	0.030	0.012	0.002
			3	3/4	070	177.00	180.00	3.00	0.50	1:0	0.05	0.00	0.01	0.026	0.013	0.003





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North American Palladium Ltd.  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Twilight/S.Roby HOLE # 00-126

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METERAGE		DESCRIPTION	Alt <sup>n</sup> Bx Matrix				SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
220.93	245.60	<p><b>MAGNETITE BEARING GABBRO (continued)</b></p> <p>in gabbronorite sections. Moderately mottled by mafic, healed, randomly oriented hairline fractures to narrow concentrations. 1-3% black, fine grained magnetite throughout which locally increases to 5%. Rare, trace fine grained disseminated pyrite crystals. Possibly east gabbro.</p> <p>241.87m - 242.08m: Microgabbro dike, magnetic, dark greyish-green and has 20% gabbro clasts. Sharp upper contact at 35° to core axis and sharp lower contact at 50° to core axis.</p> <p>243.41m - 245.60m: Pyroxenite-gabbro breccia. 40% pyroxenite clasts up to 30cm long. This section may be part of underlying breccia. Matrix is same magnetite gabbro.</p> <p>At 245.60m: Sharp lower contact at 55° to core axis at last magnetite gabbro section.</p>																
245.60	260.28	<p><b>GABBRONORITE BRECCIA</b></p> <p>Gabbronorite of various compositions and alterations in sections from 5cm to 4.0m long with sharp contacts. There are ~10% gabbro-pyroxenite clasts that aren't Opx rich.</p> <p>245.60m - 249.48m: Brown Opx-rich gabbronorite to norite, and coarse grained. Plag generally weak to moderate brownish-pink. Grades in from a tremolitic melanogabbronorite at the start to ~247.50m. No mineralization.</p> <p>249.48m - 260.28m: Sections ~60% coarse grained, slightly pyroxene porphyritic gabbronorite which is tremolitic and may be the matrix to this part. The rest is made up of pieces or clasts</p>					096	245.60	247.53	1.93	nil		0.17	0.03	0.01	0.006	0.020	0.004
			3	2/3			097	247.53	249.00	1.47	nil		0.17	0.02	0.01	0.006	0.011	0.002
			2/3	3			098	249.00	252.00	3.00	tr	1:1	0.43	0.00	0.04	0.021	0.020	0.002
			2/3	3			099	252.00	255.00	3.00	2.00	1:3	3.55	0.38	0.41	0.268	0.350	0.010
			2/3	3			100	255.00	258.00	3.00	1.00	1:3	2.17	0.21	0.14	0.114	0.267	0.008
			2/3	3			101	258.00	260.28	2.28	0.25		0.39	0.05	0.06	0.030	0.036	0.004

# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Twilight/S.Roby HOLE # 00-126

LOGGED BY: K. Nelson SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>				SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
245.60	260.28	<b>GABBRONORITE BRECCIA (continued)</b>  of gabbronorite to websterite and lesser gabbro. Moderate actinolite and tremolite alteration. Plag is variable from fresh/white to light purplish-pink (potassic) altered to stained light green. Variable mineralization from only trace to 2-3% flooded.  251.00m - 251.75m: Core ground into small chippy pieces. No clay or alteration. Probably drill induced.  At 260.28m: Sharp lower contact at 45° to core axis.																
260.28	307.81	<b>MELANOGABBRO TO PYROXENITE</b>  Dark greyish-green, dense looking. Moderately equigranular to slightly mottled looking due to differential Plag concentrations. Unit starts off as a melanogabbro and Plag grades out down-hole to become a pyroxenite. Melanogabbro is 10-25% Plag, and 75-90% Cpx. Pyroxenite is <5-10% Plag, and 90-95% Cpx. Alteration is overall moderate with some grain outlines indistinguishable. Moderate actinolite and Plag is generally weakly altered purplish-pink or light green stained. Locally, there is up to 5% Opx (fresh, brown variety and tremolite). Pyroxenite grades through minor sections of very coarse grained. Weakly mottled by mafic, hairline fractures. Some fractures have green serpentine or white calcite. Non-magnetic to locally moderately magnetic. Mineralization starts off strong, up to 2% pyrite and chalcopyrite/pyrrhotite, as fine grained tiny blebs distributed along the core length to localized flooding up to 10%.	3	3			102	260.28	261.00	0.72	1.00	1:4	0.80	0.13	0.12	0.067	0.070	0.004
			3	3			103	261.00	264.00	3.00	2.00	1:3	0.97	0.09	0.14	0.119	0.115	0.007
			3	3			104	264.00	267.00	3.00	2.00	1:3	0.41	0.05	0.07	0.091	0.056	0.005
			3	3/4			105	267.00	270.00	3.00	1.50	1:2	0.37	0.05	0.04	0.051	0.049	0.005
			3	3			106	270.00	273.00	3.00	0.75	1:0	0.29	0.04	0.10	0.072	0.056	0.005
			3	3			107	273.00	276.00	3.00	0.75	1:0	0.13	0.02	0.03	0.036	0.029	0.004
			3	3			108	276.00	279.00	3.00	tr	1:0	0.11	0.02	0.02	0.015	0.027	0.005
			3	3			109	279.00	282.10	3.10	0.25	1:4	0.08	0.01	0.02	0.028	0.029	0.004
			3	3			110	282.10	284.94	2.84	6.00	1:2	1.65	0.19	0.25	0.453	0.425	0.016
			3	3			111	284.94	287.90	2.96	1.50	3:1	0.30	0.06	0.16	0.134	0.047	0.004
			3	3			112	287.90	291.00	3.10	tr	1:1	0.07	0.01	0.02	0.023	0.024	0.004
			3	3			113	291.00	294.00	3.00	tr	1:1	0.06	0.00	0.01	0.017	0.021	0.004
			3	3			114	294.00	297.00	3.00	0.75		0.16	0.03	0.07	0.081	0.032	0.004
			3	3			115	297.00	297.97	0.97	0.75		0.15	0.03	0.07	0.082	0.038	0.005
			3	2/3			116	297.97	300.00	2.03	3.00	1:2	0.67	0.12	0.27	0.299	0.144	0.008
			3	2/3			117	300.00	303.00	3.00	3.00	1:2	0.45	0.08	0.17	0.208	0.086	0.006
			3	2/3			118	303.00	304.11	1.11	3.00	2:1	0.32	0.06	0.11	0.149	0.065	0.005
			3	3/4			119	304.11	306.00	1.89	1.50	3:1	0.42	0.08	0.31	0.147	0.066	0.006
			3	4			120	306.00	307.81	1.81	1.50	3:1	0.54	0.08	0.18	0.186	0.077	0.005









# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Twilight/S.Roby HOLE # 00-126

LOGGED BY: K. Nelson SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
372.79	514.84	<b>GABBRO</b>  Moderate to dark greyish-green, mottled white to dark purplish-pink. Coarse grained, equigranular and fairly uniform. Moderately foliated throughout at 50-60° to core axis. Slightly more Plag than pyroxene with 50-55% Plag and 45-50% Cpx. Locally, there is 5% Opx as tremolite. Grades through lenses of gabbronorite where Opx (mainly as the fresh brown variety and less often as tremolite) makes up to 30% of the rock. These lenses have gradational contacts and are up to 4m in length. Alteration is variable from weak to moderate actinolite with Plag being fresh/white to weakly moderately purplish-pink altered to locally light yellowy-green stained. In the gabbbronorite, there is moderate actinolite, weak tremolite, and Plag is moderately brownish-pink stained. Throughout, there is patchy yellowish-green saussurite alteration. Occasional mm to generally <1cm felsic dikelet, often at 30-45° to core axis. Weakly mottled by bleached and mafic hairline, healed fractures and by greenish shears. Occasional fractures are calcareous. Generally non-magnetic except for gabbronorite sections which are moderately magnetic. Mineralization is low with trace to 0.5% fine grained disseminations to occasional bleb of pyrite and occasionally along fractures. East Gabbro type.  At 390.53m: Abrupt change from pervasively moderate alteration up-hole to weak alteration down-hole. Plag loses the pervasive purplish-pink (potassic) alteration and becomes white with localized yellowish-green and orange staining. Cpx is more weakly altered as well.	3	2/3			148	372.79	375.00	2.21	0.25		0.06	0.00	0.00	0.028	0.008	0.002
			3	2/3			149	375.00	378.00	3.00	0.25		0.03	0.00	0.01	0.024	0.006	0.002
			3	2/3			150	378.00	381.00	3.00	0.50		0.05	0.00	0.01	0.041	0.023	0.002
			3	2/3			151	381.00	384.00	3.00	0.50		0.50	0.09	0.07	0.028	0.015	0.002
			3	2/3			152	384.00	387.00	3.00	tr		0.32	0.06	0.04	0.012	0.007	0.002
			3	2/3			153	387.00	389.00	2.00	0.25		0.01	0.00	0.00	0.008	0.004	0.001
			3	2/3			154	389.00	390.53	1.53	0.25		0.01	0.00	0.00	0.009	0.005	0.002
			2/3	2			155	390.53	393.00	2.47	0.25		0.01	0.00	0.01	0.010	0.004	0.002
			2/3	2			156	393.00	396.00	3.00	0.25		0.01	0.00	0.00	0.010	0.005	0.003
			2/3	2			157	396.00	399.00	3.00	0.25		0.01	0.00	0.00	0.010	0.004	0.002
			2/3	2			158	399.00	402.00	3.00	0.25		0.01	0.00	0.00	0.013	0.004	0.002
			2/3	2			159	402.00	405.00	3.00	tr		0.01	0.00	0.00	0.010	0.005	0.002
			2/3	2			160	405.00	408.00	3.00	0.25		0.02	0.00	0.00	0.016	0.005	0.002
			2/3	2			161	408.00	411.00	3.00	0.50		0.02	0.00	0.00	0.016	0.004	0.002
			2/3	2/3			162	411.00	414.00	3.00	0.25		0.01	0.00	0.00	0.012	0.004	0.002
			3	2/3			163	414.00	417.00	3.00	0.50		0.01	0.00	0.01	0.010	0.005	0.002
			3	2/3			164	417.00	420.00	3.00	0.25		0.01	0.00	0.00	0.009	0.005	0.002
			3	2/3			165	420.00	423.00	3.00	0.25		0.01	0.00	0.00	0.009	0.004	0.001
			3	2/3			166	423.00	426.00	3.00	0.25		0.01	0.00	0.01	0.019	0.005	0.002
			3	2/3			167	426.00	429.00	3.00	tr		0.02	0.00	0.00	0.008	0.004	0.002
			3	3			168	429.00	432.00	3.00	tr		0.02	0.00	0.00	0.010	0.005	0.002
			3	3			169	432.00	435.00	3.00	tr		0.01	0.00	0.00	0.008	0.005	0.002
			3	3			170	435.00	438.00	3.00	tr		0.01	0.00	0.00	0.008	0.005	0.002
			3	3			171	438.00	441.00	3.00	tr		0.02	0.00	0.00	0.008	0.005	0.002
			3	3			172	441.00	444.00	3.00	tr		0.02	0.00	0.01	0.008	0.006	0.002
			3	3			173	444.00	447.00	3.00	tr		0.02	0.00	0.00	0.008	0.005	0.002
			3	3			174	447.00	450.00	3.00	tr		0.02	0.00	0.00	0.008	0.005	0.002
			3	3			175	450.00	453.00	3.00	tr		0.02	0.00	0.00	0.007	0.006	0.002
		3	3			176	453.00	456.00	3.00	tr		0.02	0.00	0.00	0.007	0.005	0.003	
		3	3			177	456.00	459.00	3.00	tr		0.02	0.00	0.00	0.009	0.006	0.002	



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METERAGE		DESCRIPTION	Alt <sup>n</sup> Bx Matrix				SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
372.79	514.84	<b>GABBRO (continued)</b>  contact at 35° to core axis, and sharp lower contact at 30° to core axis. 492.55m - 492.85m: Very fine grained, dark grey mafic dike. Non-magnetic Weak foliation at 35° to core axis. Very wavy to interfingering contacts. Upper contact averages ~25° to core axis, and lower contact averages ~45° to core axis. ~1% fine grained pyrite disseminated throughout. 494.68m - 494.93m: Felsic dike. Very siliceous and aphanitic to very fine grained. Moderate, subhedral Plag prophyritic. Stained a light pink colour with reddish-orange hematite along fractures. 514.85m: Sharp lower contact at 45° to core axis at first section of diabase.																
514.84	562.30	<b>DIABASE DIKE AND HETEROLITHIC BRECCIA</b>  Sections of diabase dike alternating with sections of various lithology which may be a heterolithic breccia. Heterolithic breccia has sharp contacts between different lithologies, and is in sections from 0.25 to ~6.5m. Heterolithic breccia is often fairly mafic, e.g. melanogabbro to pyroxenite. Diabase is black, magnetic and very fine grained, dense looking to fine grained "salt and pepper" looking. Well mottled by bleached, hairline fractures at various orientations to core axis. Some fractures have calcite and/or yellowish-green serpentine patches. Heterolithic breccia may just be short sections of alternating lithologies. 514.84m - 516.00m: Dark grey, diabase dike with sharp upper contact at					198	514.84	516.00	1.16	0.50		0.00	0.00	0.01	0.014	0.002	0.003
			2/3	3			199	516.00	518.84	2.84	0.50	1:0	0.10	0.01	0.04	0.013	0.010	0.002
			3	3			200	518.84	522.00	3.16	0.50	1:0	0.17	0.02	0.01	0.011	0.014	0.004
			3	3			201	522.00	525.00	3.00	0.50	1:0	0.21	0.02	0.02	0.016	0.016	0.004
			3	3			202	525.00	527.22	2.22	0.50	1:0	0.22	0.02	0.02	0.018	0.013	0.003
			2				203	527.22	529.22	2.00	0.50		0.01	0.00	0.00	0.010	0.003	0.003
			2				204	529.22	530.61	1.39	0.50		0.09	0.00	0.01	0.009	0.005	0.003
			3	3			205	530.61	532.13	1.52	1.00	1:4	4.21	0.29	0.32	0.100	0.096	0.005
			2				206	532.13	534.00	1.87	0.25		0.03	0.00	0.00	0.008	0.004	0.003
			2				207	534.00	536.78	2.78	0.50		0.03	0.00	0.01	0.009	0.006	0.003
			3	3			208	536.78	540.00	3.22	4.00	2:1	8.22	0.39	0.45	0.148	0.141	0.007
			3	3			209	540.00	543.00	3.00	4.00	2:1	10.60	0.57	0.55	0.120	0.120	0.006
			3	3			210	543.00	546.00	3.00	4.00	2:1	10.00	0.61	0.53	0.109	0.162	0.006
			3	3			211	546.00	549.00	3.00	4.00	2:1	4.99	0.26	0.95	0.186	0.221	0.006

# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Twilight/S.Roby HOLE # 00-126

LOGGED BY: K. Nelson SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	NI %	Co %
514.85	562.30						<p><b>DIABASE DIKE AND HETEROLITHIC BRECCIA (continued)</b></p> <p>45° to core axis, and sharp lower contact at 45° to core axis. 0.5% fine to medium grained disseminated pyrite.</p> <p>516.00m - 518.84m: Alternating sections of melanogabbro and leucogabbro in sections 40-70cm long. They have sharp to interbanded contacts. Leucogabbro is similar to the above east gabbro but with 65-75% Plag. Sharp lower contact at 40° to core axis. Moderate to locally weak alteration.</p> <p>518.84m - 527.22m: Dark greyish-green melanogabbro with 60-75% Cpx and 25-40% Plag. Moderate to strong actinolite, minor talc and grey to greenish stained Plag. At ~523.00m, grades into a gabbro with 35-40% Plag. From 525.00m - 525.73m is a diabase dike, well laminated with quartz-Plag beds and elongate blebs. At 526.94m - 527.22m is a well altered and laminated (intermediate?) dike with clast of the gabbro. Melanogabbro has occasional yellowish-green epidote.</p> <p>527.22m - 530.61m: Diabase dike. Occasional &lt;2cm, clast of fairly fresh gabbro, sharp but very wavy and irregular upper contact, averaging ~70° to core axis. Lower 5cm includes laminated felsic material and a bed of fine grained pyrite 1-4mm thick. Sharp lower contact at 45° to core axis.</p> <p>530.61m - 532.13m: Heterolithic section with 27cm of an equigranular, medium grained gabbro with ~2% fine grained pyrite. It then starts out as a fine grained melanogabbro which grades down-hole into a very blotchy/mottled varitextured gabbro to varitextured melanogabbro. Sharp lower contact at 60° to core axis.</p> <p>532.13m - 536.18m: Diabase dike. Mixed unit of the very fine grained, dense diabase and the fine grained salt and pepper looking diabase.</p>											
			3	3			212	549.00	550.11	1.11	4.00	2:1	0.84	0.15	0.65	0.282	0.304	0.007
			3	3			213	550.11	552.21	2.10	4.00	2:1	1.39	0.17	0.43	0.129	0.132	0.005
			2				214	552.21	555.00	2.79	0.25		0.05	0.00	0.03	0.029	0.010	0.003
			2				215	555.00	556.87	1.87	0.25		0.04	0.00	0.01	0.012	0.008	0.003
			2				216	556.87	558.46	1.59	0.25		0.01	0.00	0.00	0.008	0.006	0.003
			3	3			217	558.46	561.00	2.54	1.50	1:0	2.06	0.17	0.16	0.065	0.046	0.004
			3	3			218	561.00	562.00	1.00	1.00	1:0	1.43	0.13	0.12	0.062	0.061	0.003







## DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Twilight/S.Roby HOLE # 00-126

LOGGED BY: K. Nelson

SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>				Bx Matrix					SAMPLES					ASSAYS				
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	NI %	Co %			
514.85	562.30	<b>DIABASE DIKE AND HETEROLITHIC BRECCIA (continued)</b>  more equigranular gabbro to melanogabbro. ~20% well altered and laminated felsic to intermediate dikes. Rare diabase dikelet. Very broken up and brecciated section. At 562.00m: Sharp lower contact at 40° to core axis.																			
562.00	633.78	<b>FAULT ZONE AND PYROXENITE-GABBRO BRECCIA</b>  Fault zone with variable intensity of alteration and brecciation of the core. Appears to be localized within a unit of alternating sections of gabbro and pyroxenite, which is possibly a breccia. Gabbro is of various types as described below and pyroxenite tends to be of the coarse grained, dense variety. 562.00m - 564.60m: Appears to be partly gabbro and party pyroxenite, but it is highly altered and faulted. Intense zones of silicified, aphanitic, greenish beige brecciation to lamination (at 30° to core axis). Some sections are talcose and/or clay-rich +/- calcite along fractures. Patchy dark, reddish-orange (hematite?) alteration. Sharp lower contact at 40° to core axis at last intense alteration zone. 564.60m - 579.10m: Brecciated and altered gabbro to leucogabbro. Coarse grained pyroxene porphyritic gabbro to leucogabbro. Plag is 55-65% and locally up to 75%. Cpx is generally 35-45%. Fresher sections show relatively unaltered, white Plag and dark grey Cpx. Fairly light looking section. Core is very well brecciated by white to grey to greenish-beige, hairline to 1cm thick zones of fracturing. This gives the unit	3/4	3/4			219	562.00	564.60	2.60	0.25		1.16	0.09	0.02	0.037	0.036	0.005			
			2/3	2/3			220	564.60	567.00	2.40	nil		0.05	0.00	0.00	0.002	0.008	0.002			
			2/3	2/3			221	567.00	570.00	3.00	nil		0.06	0.00	0.00	0.001	0.007	0.002			
			2/3	2/3			222	570.00	573.00	3.00	nil		0.04	0.00	0.00	0.004	0.005	0.002			
			3	2/3			223	573.00	576.00	3.00	nil		0.05	0.00	0.00	0.009	0.007	0.002			
			3/4	3			224	576.00	579.10	3.10	nil		0.04	0.00	0.00	0.001	0.007	0.002			
			3/4	3			225	579.10	580.52	1.42	0.25		0.17	0.02	0.00	0.006	0.022	0.005			
			3/4	3			226	580.52	582.40	1.88	tr	1:0	0.36	0.04	0.01	0.126	0.044	0.006			
			3/4	3			227	582.40	585.00	2.60	nil		0.19	0.05	0.01	0.091	0.033	0.004			
			3/4	3			228	585.00	587.48	2.48	0.25	1:0	0.32	0.05	0.02	0.149	0.060	0.006			
			3/4	3/4			229	587.48	588.54	1.06	tr		0.27	0.03	0.01	0.045	0.030	0.003			
			3/4	3/4			230	588.54	591.00	2.46	2.00	3:1	2.78	0.20	0.06	0.065	0.047	0.005			
			3/4	3/4			231	591.00	594.00	3.00	3.00	2:1	2.67	0.25	0.13	0.097	0.061	0.007			
			3/4	3/4			232	594.00	597.00	3.00	0.50	1:0	2.92	0.29	0.13	0.081	0.069	0.005			
			3/4	3/4			233	597.00	599.03	2.03	1.50	2:1	5.27	0.41	0.03	0.213	0.135	0.010			
			3/4	3/4			234	599.03	600.00	0.97	nil		0.08	0.01	0.06	0.005	0.009	0.002			
			3/4	3/4			235	600.00	603.00	3.00	0.25		0.08	0.01	0.01	0.012	0.008	0.002			
			3/4	3/4			236	603.00	606.00	3.00	0.25		0.02	0.00	0.00	0.010	0.005	0.002			
			3/4	3/4			237	606.00	609.00	3.00	nil		0.02	0.01	0.00	0.012	0.007	0.003			
			3/4	3/4			238	609.00	612.00	3.00	nil		0.04	0.01	0.00	0.005	0.008	0.002			
			3/4	3/4			239	612.00	615.00	3.00	nil		0.03	0.00	0.00	0.009	0.009	0.003			
			3/4	3/4			240	615.00	617.49	2.49	nil		0.13	0.02	0.00	0.002	0.021	0.004			





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PROPERTY LDI ZONE Twilight/S.Roby HOLE # 00-126

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METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix					SAMPLES							ASSAYS					
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %				
562.00	633.78	<b>FAULT ZONE AND PYROXENITE-GABBRO BRECCIA (continued)</b>  occur in localized concentrations up to 5%. There is ~2-3% pyrite and 1-2% chalcopyrite/pyrrhotite. Lower contact faulted but probably averages ~15° to core axis.  621.38m - 633.78m: Alternating short sections of gabbro and pyroxenite and lesser melanogabbro to heterolithic breccia. ~40% of section is well foliated/sheared pyroxenite with foliation at 20-45° to core axis and up to ~4m long. Alternates with ~40% gabbro which varies from coarse grained, pyroxene porphyritic to medium grained with well developed varitexture. Gabbro is up to 2m long. Pyroxenite dominated to ~627.00m and then gabbro predominates. ~20% is melanogabbro (fine to coarse grained) and diabase dikelets. Faulting continues as localized zones of clayey fracturing in the pyroxenite sections. Clay rich fracture zone in gabbro at 631.00m (at 20° to core axis) to 633.00m which is calcareous.  At 633.78m: Sharp contact at 40° to core axis.																				
633.78	662.88		<b>VARITEXTURED GABBRO</b>  Moderate greyish-green. Generally coarse grained to very coarse grained and lesser medium grained and from equigranular to pyroxene porphyritic. Varitexture is moderate to well developed, from cms to grading over several tens of cms. Mottled and uneven, non-uniform looking. Plag and pyroxene are variable, but overall are approximately equal with 45-55% Plag and 45-55% Cpx. Locally, there is 5-10% Opx or tremolite. Moderate	3	3			248	633.78	636.00	2.22	0.50	1:0	4.73	0.30	0.12	0.052	0.087	0.004			
				2/3	3			249	636.00	639.00	3.00	1.00	2:1	2.27	0.16	0.17	0.071	0.061	0.004			
				2/3	3			250	639.00	642.00	3.00	0.75	1:3	0.75	0.10	0.12	0.028	0.036	0.003			
				2/3	3	Vgab	80	251	642.00	645.00	3.00	1.50	2:1	9.97	0.69	0.38	0.146	0.295	0.010			
				2/3	3	Vgab	80	252	645.00	648.00	3.00	0.50	1:1	2.26	0.23	0.13	0.051	0.058	0.004			
				2/3	3			253	648.00	651.00	3.00	tr		0.84	0.07	0.01	0.010	0.025	0.002			
				2/3	3			254	651.00	654.00	3.00	tr		0.56	0.04	0.02	0.012	0.023	0.003			
						Vgab	75	255	654.00	657.00	3.00	0.25		1.16	0.08	0.12	0.007	0.020	0.003			
						Vgab	30	256	657.00	660.00	3.00	0.25		1.11	0.10	0.08	0.036	0.026	0.003			
						Vgab	50	257	660.00	662.88	2.88	0.25		1.45	0.13	0.13	0.073	0.041	0.004			









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METERAGE		DESCRIPTION	Alt <sup>n</sup> Bx Matrix				SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
683.95	712.59	<p><b>VARITEXTURED GABBRO (continued)</b></p> <p>Very fine grained, mottled looking due to variable colour, almost weakly bleached in parts. Moderately mottled by hairline, beige, randomly oriented to brecciating fractures. ~1% fine grained disseminated to tiny blebs of pyrite. Sharp upper contact at 45° to core axis, and sharp lower contact at 60° to core axis. Locally weakly magnetic.</p> <p>At 712.59m: Sharp lower contact at 15-20° to core axis.</p>																
712.59	720.10	<p><b>DIKES AND QUARTZ VEIN BRECCIATION</b></p> <p>Section of dikes with quartz brecciation of gabbro wallrock.</p> <p>At 712.59m: Unit starts off with ~2cm of laminated shearing of the gabbro wallrock at 15-20° to core axis. This is followed by quartz brecciation with ~75% quartz up to 1.5cm thick,</p> <p>713.00m - 713.53m: Moderate greyish, very fine grained, intermediate dike with sharp but wavy upper contact averaging 20-25° to core axis and sharp lower contact at 50° to core axis. Has a bleached and altered look to it (possibly vary altered microgabbro dike). Brecciated by hairline fractures.</p> <p>713.53m - 714.00m: White and grey vein brecciation with 80% quartz.</p> <p>714.00m - 715.53m: Gabbro with healed, brecciating fractures and irregular pods and veinlets of quartz.</p> <p>714.00m - 716.25m: Zones of greenish-beige silicified shearing and brecciation and quartz-Plag mottled vein with ~10-15% alteration. Gabbro veins/shearing trend at 20-40° to core axis.</p> <p>716.25m - 720.10m: Altered intermediate to felsic dike. Fine grained felsic groundmass of Plag-quartz with 15-20% mafics-</p>																
							276	712.59	714.53	1.94	1.00		0.38	0.06	0.01	0.011	0.036	0.004
							277	714.53	717.00	2.47	0.25		0.50	0.05	0.01	0.012	0.025	0.003
							278	717.00	720.10	3.10	0.25		0.06	0.01	0.00	0.001	0.007	0.001



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METERAGE		DESCRIPTION	Alt <sup>n</sup> Bx Matrix				SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
720.10	751.90	<p><b>PYROXENITE (continued)</b></p> <p>pyrrhotite is browner in colour and flatter looking.</p> <p>725.44m - 728.33m: Grades into a section of medium grained gabbro with weak varitexture. Plag 45-50%, and pyroxene 50-55%. Sharp lower contact at 50° to core axis.</p> <p>733.50m to end: ~25% of core is well fractured into pieces 1-10cm long and in chippy pieces. Often fractured sub-parallel to core axis or at 20-40° to core axis.</p> <p>751.38m - 751.82m: Fine grained to aphanatic mottled felsic dike. Quartz rich - probably tonalite. Weakly brecciated/foliated and stained light pink (potassic alteration). Sharp upper contact at 35° to core axis and sharp lower contact at ~45° to core axis.</p> <p>At 751.90m: Sharp lower contact at 40° to core axis.</p>																
751.90	757.50	<p><b>PYROXENITE GABBRO BRECCIA</b></p> <p>E.O.H. Unit is largely made up of coarse grained to very coarse grained gabbro with 45-55% Plag and 45-55% Cpx. Moderate actinolite alteration and Plag is generally stained a light green colour to yellowy green (possibly epidote staining). Localized purplish-grey alteration that contains very fine grained sulphides. Well mottled by mafic, brecciating hairline fractures. Mineralization is variable, from trace pyrite as fine grained crystals and blebs to 1% very fine grained concentrations of pyrite+/-chalcopyrite. ~30% of the unit is pyroxenite clasts, the same as in the previous unit-talose, foliated and moderately to well mineralized. They have sharp contacts and are up to 70cm long.</p>	3	3	Gab	90	291	751.40	753.00	1.60	0.50	1:0	3.19	0.25	0.13	0.039	0.049	0.003
			3	3/4	Gab	30	292	753.00	756.00	3.00	2.00	1:2	5.29	0.42	0.27	0.105	0.093	0.005
			3	3/4	Gab	50	293	756.00	757.50	1.50	2.00	1:2	4.78	0.37	0.39	0.101	0.079	0.005



















# ALS Chemex

Aurora Laboratory Services Ltd  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
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To: LAC DES ILES MINES LTD. EXPLORATION  
 NORTH AMERICAN PALLADIUM  
 P.O. BOX 1054  
 THUNDER BAY, ON  
 P7B 6T9

24642

Page Number : 1  
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 Certificate Date: 17-NOV-2000  
 Invoice No. : I0033156  
 P.O. Number :  
 Account : MZI

Project : 00-126  
 Comments : ATTN: MOE LAVIGNE

## CERTIFICATE OF ANALYSIS A0033156

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-126-001	1388 276	8	5	100	62	0.0062	93	0.0093	20	0.0020
00-126-002	1388 276	4	< 5	80	54	0.0054	99	0.0099	23	0.0023
00-126-003	1388 276	4	10	90	49	0.0049	77	0.0077	16	0.0016
00-126-004	1388 276	4	15	82	54	0.0054	81	0.0081	17	0.0017
00-126-005	1388 276	8	20	82	63	0.0063	96	0.0096	19	0.0019
00-126-006	1388 276	8	15	110	63	0.0063	69	0.0069	12	0.0012
00-126-007	1388 276	6	30	110	41	0.0041	73	0.0073	16	0.0016
00-126-008	1388 276	4	15	108	64	0.0064	81	0.0081	20	0.0020
00-126-009	1388 276	6	50	174	41	0.0041	165	0.0165	40	0.0040
00-126-010	1388 276	6	45	130	44	0.0044	87	0.0087	24	0.0024
00-126-011	1388 276	52	155	964	276	0.0276	192	0.0192	23	0.0023
00-126-012	1388 276	6	10	174	58	0.0058	93	0.0093	20	0.0020
00-126-013	1388 276	90	130	858	377	0.0377	318	0.0318	38	0.0038
00-126-014	1388 276	8	5	116	108	0.0108	164	0.0164	39	0.0039
00-126-015	1388 276	84	100	938	577	0.0577	228	0.0228	40	0.0040
00-126-016	1388 276	8	45	218	99	0.0099	141	0.0141	36	0.0036
00-126-017	1388 276	10	35	124	63	0.0063	96	0.0096	19	0.0019
00-126-018	1388 276	2	35	160	41	0.0041	69	0.0069	11	0.0011
00-126-019	1388 276	8	30	178	56	0.0056	90	0.0090	15	0.0015
00-126-020	1388 276	2	35	160	37	0.0037	68	0.0068	9	0.0009
00-126-021	1388 276	14	20	102	54	0.0054	83	0.0083	13	0.0013
00-126-022	1388 276	14	15	84	76	0.0076	83	0.0083	13	0.0013
00-126-023	1388 276	10	20	104	76	0.0076	66	0.0066	9	0.0009
00-126-024	1388 276	8	15	116	71	0.0071	64	0.0064	9	0.0009
00-126-025	1388 276	6	30	116	58	0.0058	83	0.0083	12	0.0012
00-126-026	1388 276	12	10	104	67	0.0067	97	0.0097	18	0.0018
00-126-027	1388 276	10	10	128	63	0.0063	100	0.0100	22	0.0022
00-126-028	1388 276	14	20	118	95	0.0095	86	0.0086	12	0.0012
00-126-029	1388 276	8	30	104	87	0.0087	113	0.0113	18	0.0018
00-126-030	1388 276	6	30	118	68	0.0068	106	0.0106	20	0.0020
00-126-031	1388 276	18	30	132	182	0.0182	139	0.0139	22	0.0022
00-126-032	1388 276	16	390	4020	1265	0.1265	>10000	>1.0000	643	0.0643
00-126-033	1388 276	64	110	552	456	0.0456	381	0.0381	25	0.0025
00-126-034	1388 276	36	65	346	284	0.0284	328	0.0328	42	0.0042
00-126-035	1388 276	26	50	212	407	0.0407	200	0.0200	21	0.0021
00-126-036	1388 276	26	55	262	216	0.0216	149	0.0149	11	0.0011
00-126-037	1388 276	6	30	122	62	0.0062	71	0.0071	12	0.0012
00-126-038	1388 276	14	40	148	135	0.0135	118	0.0118	20	0.0020
00-126-039	1388 276	22	20	94	240	0.0240	176	0.0176	31	0.0031
00-126-040	1388 276	14	30	90	83	0.0083	129	0.0129	28	0.0028

CERTIFICATION: *[Signature]*



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.-EXPLORATION  
 NORTH AMERICAN PALLADIUM  
 P.O. BOX 10547  
 THUNDER BAY, ON  
 P7B 6T9

Page Number : 2  
 Total Pages : 3  
 Certificate Date: 17-NOV-2000  
 Invoice No. : 10033156  
 P.O. Number :  
 Account : MZI

Project: 00-126  
 Comments: ATTN: MOE LAVIGNE

## CERTIFICATE OF ANALYSIS A0033156

SAMPLE	PRBP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-126-041	1388 276	6	15	84	58	0.0058	166	0.0166	41	0.0041
00-126-042	1388 276	14	30	172	103	0.0103	137	0.0137	33	0.0033
00-126-043	1388 276	16	10	104	77	0.0077	73	0.0073	12	0.0012
00-126-044	1388 276	24	15	104	150	0.0150	181	0.0181	38	0.0038
00-126-045	1388 276	26	< 5	88	462	0.0462	135	0.0135	27	0.0027
00-126-046	1388 276	52	70	366	1080	0.1080	303	0.0303	33	0.0033
00-126-047	1388 276	6	10	84	196	0.0196	102	0.0102	20	0.0020
00-126-048	1388 276	4	< 5	52	170	0.0170	90	0.0090	22	0.0022
00-126-049	1388 276	4	< 5	34	145	0.0145	67	0.0067	18	0.0018
00-126-050	1388 276	< 2	< 5	20	58	0.0058	58	0.0058	12	0.0012
00-126-051	1388 276	60	< 5	44	351	0.0351	535	0.0535	87	0.0087
00-126-052	1388 276	4	< 5	34	110	0.0110	78	0.0078	13	0.0013
00-126-053	1388 276	32	40	322	636	0.0636	387	0.0387	41	0.0041
00-126-054	1388 276	68	95	640	1380	0.1380	710	0.0710	45	0.0045
00-126-055	1388 276	12	10	96	246	0.0246	96	0.0096	19	0.0019
00-126-056	1388 276	16	20	206	251	0.0251	133	0.0133	35	0.0035
00-126-057	1388 276	28	35	202	360	0.0360	180	0.0180	31	0.0031
00-126-058	1388 276	32	40	178	408	0.0408	200	0.0200	21	0.0021
00-126-059A	1388 276	166	140	850	2250	0.2250	1420	0.1420	74	0.0074
00-126-059B	1388 276	4	< 5	12	120	0.0120	58	0.0058	22	0.0022
00-126-060	1388 276	94	80	612	1845	0.1845	872	0.0872	50	0.0050
00-126-061	1388 276	10	15	118	327	0.0327	153	0.0153	21	0.0021
00-126-062	1388 276	32	30	222	573	0.0573	335	0.0335	31	0.0031
00-126-063	1388 276	8	< 5	28	179	0.0179	68	0.0068	18	0.0018
00-126-064	1388 276	10	20	78	158	0.0158	58	0.0058	24	0.0024
00-126-065	1388 276	4	< 5	16	388	0.0388	157	0.0157	23	0.0023
00-126-066	1388 276	20	5	116	268	0.0268	91	0.0091	21	0.0021
00-126-067	1388 276	36	30	336	788	0.0788	262	0.0262	30	0.0030
00-126-068	1388 276	8	< 5	46	352	0.0352	132	0.0132	32	0.0032
00-126-069	1388 276	6	< 5	36	301	0.0301	116	0.0116	23	0.0023
00-126-070	1388 276	8	< 5	48	262	0.0262	126	0.0126	26	0.0026
00-126-071	1388 276	18	5	22	215	0.0215	94	0.0094	24	0.0024
00-126-072	1388 276	4	< 5	12	159	0.0159	82	0.0082	20	0.0020
00-126-073	1388 276	2	< 5	4	127	0.0127	78	0.0078	23	0.0023
00-126-074	1388 276	4	< 5	4	113	0.0113	71	0.0071	23	0.0023
00-126-075	1388 276	12	10	76	255	0.0255	162	0.0162	42	0.0042
00-126-076	1388 276	6	< 5	34	198	0.0198	109	0.0109	30	0.0030
00-126-077	1388 276	6	< 5	26	159	0.0159	100	0.0100	29	0.0029
00-126-078	1388 276	52	20	386	975	0.0975	194	0.0194	34	0.0034
00-126-079	1388 276	64	30	376	1295	0.1295	384	0.0384	51	0.0051

CERTIFICATION: *[Signature]*



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.-EXPLORATION  
 NORTH AMERICAN PALLADIUM  
 P.O. BOX 10547  
 THUNDER BAY, ON  
 P7B 6T9

Page Number : 3  
 Total Pages : 3  
 Certificate Date: 17-NOV-2000  
 Invoice No. : 10033156  
 P.O. Number :  
 Account : MZI

Project : 00-126  
 Comments: ATTN: MOE LAVIGNE

## CERTIFICATE OF ANALYSIS A0033156

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-126-080	1388 276	112	150	966	1960	0.1960	986	0.0986	74	0.0074
00-126-081	1388 276	142	185	1235	2630	0.2630	1760	0.1760	98	0.0098
00-126-082	1388 276	12	< 5	46	352	0.0352	152	0.0152	33	0.0033
00-126-083	1388 276	14	10	44	438	0.0438	213	0.0213	40	0.0040
00-126-084	1388 276	16	15	222	569	0.0569	292	0.0292	55	0.0055
00-126-085	1388 276	12	70	320	174	0.0174	189	0.0189	33	0.0033
00-126-086	1388 276	14	< 5	28	237	0.0237	114	0.0114	31	0.0031
00-126-087	1388 276	12	< 5	34	271	0.0271	129	0.0129	30	0.0030
00-126-088	1388 276	20	20	170	177	0.0177	155	0.0155	30	0.0030
00-126-089	1388 276	8	< 5	20	284	0.0284	118	0.0118	28	0.0028
00-126-090	1388 276	4	< 5	16	284	0.0284	119	0.0119	34	0.0034
00-126-091	1388 276	4	< 5	18	263	0.0263	111	0.0111	37	0.0037
00-126-092	1388 276	4	< 5	18	206	0.0206	87	0.0087	32	0.0032
00-126-093	1388 276	8	< 5	60	210	0.0210	86	0.0086	26	0.0026
00-126-094	1388 276	6	< 5	20	89	0.0089	70	0.0070	26	0.0026
00-126-095	1388 276	4	30	52	53	0.0053	113	0.0113	28	0.0028
00-126-096	1388 276	10	25	166	63	0.0063	202	0.0202	39	0.0039
00-126-097	1388 276	10	15	172	58	0.0058	110	0.0110	23	0.0023
00-126-098	1388 276	44	< 5	430	210	0.0210	199	0.0199	23	0.0023
00-126-099	1388 276	410	375	3550	2680	0.2680	3500	0.3500	96	0.0096
126-STA-152	214 238	290	295	3400	1160	0.1160	1055	0.1055	40	0.0040

CERTIFICATION: *[Signature]*



# ALS Chemex

Aurora Laboratory Services Ltd  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.-EXPLORATION  
 NORTH AMERICAN PALLADIUM  
 P.O. BOX 10547  
 THUNDER BAY, ON  
 P7B 6T9

Page Number :1  
 Total Pages :2  
 Certificate Date: 16-NOV-2000  
 Invoice No. :10033207  
 P.O. Number :  
 Account :MZI

Project : 00-126  
 Comments: ATTN: MOE LAVIGNE

## CERTIFICATE OF ANALYSIS A0033207

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-126-100	1388 276	138	210	2170	1135	0.1135	2670	0.2670	77	0.0077
00-126-101	1388 276	62	50	390	297	0.0297	357	0.0357	36	0.0036
00-126-102	1388 276	120	125	798	672	0.0672	704	0.0704	39	0.0039
00-126-103	1388 276	138	90	968	1190	0.1190	1145	0.1145	67	0.0067
00-126-104	1388 276	74	45	414	907	0.0907	558	0.0558	50	0.0050
00-126-105	1388 276	38	45	368	507	0.0507	494	0.0494	50	0.0050
00-126-106	1388 276	96	40	294	724	0.0724	561	0.0561	51	0.0051
00-126-107	1388 276	30	15	134	362	0.0362	286	0.0286	41	0.0041
00-126-108	1388 276	16	20	114	151	0.0151	269	0.0269	45	0.0045
00-126-109	1388 276	20	10	84	276	0.0276	293	0.0293	44	0.0044
00-126-110	1388 276	252	190	1650	4530	0.4530	4250	0.4250	156	0.0156
00-126-111	1388 276	164	55	300	1340	0.1340	471	0.0471	40	0.0040
00-126-112	1388 276	20	5	74	227	0.0227	237	0.0237	40	0.0040
00-126-113	1388 276	10	< 5	58	166	0.0166	214	0.0214	38	0.0038
00-126-114	1388 276	72	30	162	810	0.0810	322	0.0322	44	0.0044
00-126-115	1388 276	72	30	154	816	0.0816	380	0.0380	48	0.0048
00-126-116	1388 276	274	120	672	2990	0.2990	1435	0.1435	77	0.0077
00-126-117	1388 276	166	80	446	2080	0.2080	859	0.0859	60	0.0060
00-126-118	1388 276	108	60	322	1485	0.1485	650	0.0650	51	0.0051
00-126-119	1388 276	306	80	418	1465	0.1465	659	0.0659	55	0.0055
00-126-120	1388 276	178	80	542	1860	0.1860	771	0.0771	52	0.0052
00-126-121	1388 276	132	55	466	1400	0.1400	947	0.0947	68	0.0068
00-126-122	1388 276	80	25	252	718	0.0718	327	0.0327	29	0.0029
00-126-123	1388 276	64	50	306	490	0.0490	281	0.0281	27	0.0027
00-126-124	1388 276	8	45	290	85	0.0085	119	0.0119	19	0.0019
00-126-125	1388 276	86	85	524	1675	0.1675	932	0.0932	63	0.0063
00-126-126	1388 276	58	25	262	857	0.0857	318	0.0318	31	0.0031
00-126-127	1388 276	18	< 5	172	172	0.0172	147	0.0147	29	0.0029
00-126-128	1388 276	14	5	76	130	0.0130	77	0.0077	15	0.0015
00-126-129	1388 276	12	< 5	42	163	0.0163	115	0.0115	18	0.0018
00-126-130	1388 276	< 2	< 5	46	42	0.0042	719	0.0719	63	0.0063
00-126-131	1388 276	< 2	< 5	56	56	0.0056	240	0.0240	25	0.0025
00-126-132	1388 276	< 2	< 5	38	29	0.0029	174	0.0174	20	0.0020
00-126-133	1388 276	4	< 5	48	70	0.0070	193	0.0193	27	0.0027
00-126-134	1388 276	12	< 5	46	144	0.0144	190	0.0190	32	0.0032
00-126-135	1388 276	< 2	< 5	36	27	0.0027	83	0.0083	18	0.0018
00-126-136	1388 276	2	< 5	24	46	0.0046	115	0.0115	25	0.0025
00-126-137	1388 276	< 2	< 5	22	35	0.0035	217	0.0217	35	0.0035
00-126-138	1388 276	2	< 5	60	41	0.0041	283	0.0283	52	0.0052
00-126-139	1388 276	4	< 5	48	55	0.0055	360	0.0360	59	0.0059

CERTIFICATION: \_\_\_\_\_



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.-EXPLORATION  
 NORTH AMERICAN PALLADIUM  
 P.O. BOX 10547  
 THUNDER BAY, ON  
 P7B 6T9

Page Number : 2  
 Total Pages : 2  
 Certificate Date: 16-NOV-2000  
 Invoice No. : 10033207  
 P.O. Number :  
 Account : MZI

Project : 00-126  
 Comments: ATTN: MOE LAVIGNE

**CERTIFICATE OF ANALYSIS**      **A0033207**

SAMPLE	FREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-126-140	1388 276	< 2	< 5	40	33	0.0033	193	0.0193	38	0.0038
00-126-141	1388 276	< 2	< 5	36	33	0.0033	131	0.0131	31	0.0031
00-126-142	1388 276	< 2	< 5	30	23	0.0023	123	0.0123	36	0.0036
00-126-143	1388 276	< 2	< 5	20	26	0.0026	95	0.0095	26	0.0026
00-126-144	1388 276	< 2	< 5	20	36	0.0036	149	0.0149	43	0.0043
00-126-145	1388 276	2	< 5	52	26	0.0026	125	0.0125	50	0.0050
00-126-146	1388 276	4	< 5	36	29	0.0029	131	0.0131	45	0.0045
00-126-147	1388 276	< 2	< 5	60	30	0.0030	264	0.0264	57	0.0057
00-126-148	1388 276	< 2	< 5	56	282	0.0282	77	0.0077	18	0.0018
00-126-149	1388 276	14	< 5	26	235	0.0235	55	0.0055	17	0.0017
00-126-150	1388 276	10	< 5	50	406	0.0406	227	0.0227	24	0.0024
00-126-151	1388 276	66	85	502	282	0.0282	147	0.0147	22	0.0022
00-126-152	1388 276	36	55	316	122	0.0122	67	0.0067	15	0.0015
00-126-153	1388 276	< 2	< 5	10	81	0.0081	42	0.0042	13	0.0013
00-126-154	1388 276	4	< 5	10	92	0.0092	48	0.0048	17	0.0017
00-126-155	1388 276	8	< 5	12	103	0.0103	37	0.0037	17	0.0017
00-126-156	1388 276	< 2	< 5	10	98	0.0098	51	0.0051	25	0.0025
00-126-157	1388 276	< 2	< 5	10	95	0.0095	40	0.0040	20	0.0020
00-126-158	1388 276	4	< 5	14	131	0.0131	41	0.0041	16	0.0016
00-126-159	1388 276	4	< 5	8	102	0.0102	49	0.0049	18	0.0018
00-126-160	1388 276	4	< 5	16	159	0.0159	51	0.0051	15	0.0015
00-126-161	1388 276	2	< 5	16	155	0.0155	44	0.0044	17	0.0017
00-126-162	1388 276	4	< 5	12	115	0.0115	42	0.0042	17	0.0017
00-126-163	1388 276	6	< 5	14	104	0.0104	48	0.0048	18	0.0018
00-126-164	1388 276	4	< 5	14	94	0.0094	46	0.0046	16	0.0016
00-126-165	1388 276	4	< 5	14	93	0.0093	40	0.0040	14	0.0014
00-126-166	1388 276	6	< 5	14	194	0.0194	45	0.0045	17	0.0017
00-126-167	1388 276	2	< 5	18	81	0.0081	37	0.0037	15	0.0015
00-126-168	1388 276	4	< 5	16	99	0.0099	51	0.0051	21	0.0021
00-126-169	1388 276	4	< 5	14	76	0.0076	46	0.0046	19	0.0019
00-126-170	1388 276	4	< 5	14	77	0.0077	50	0.0050	20	0.0020
00-126-171	1388 276	4	< 5	18	78	0.0078	50	0.0050	18	0.0018
126-STA-160	214 238	252	310	3240	1285	0.1285	1160	0.1160	46	0.0046

CERTIFICATION: \_\_\_\_\_

44000



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.-EXPLORATION  
 NORTH AMERICAN PALLADIUM  
 P.O. BOX 10547  
 THUNDER BAY, ON  
 P7B 6T9

Page Number : 1  
 Total Pages : 2  
 Certificate Date: 22-NOV-2000  
 Invoice No. : I0033238  
 P.O. Number :  
 Account : MZI

Project : 00-126  
 Comments: ATTN: MOE LAVIGNE

## CERTIFICATE OF ANALYSIS A0033238

SAMPLE	FREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Pd g/t	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-126-172	1388 276	6	< 5	20	-----	80	0.0080	57	0.0057	21	0.0021
00-126-173	1388 276	4	< 5	18	-----	82	0.0082	54	0.0054	19	0.0019
00-126-174	1388 276	4	< 5	20	-----	81	0.0081	52	0.0052	19	0.0019
00-126-175	1388 276	4	< 5	20	-----	70	0.0070	57	0.0057	22	0.0022
00-126-176	1388 276	4	< 5	20	-----	69	0.0069	54	0.0054	25	0.0025
00-126-177	1388 276	4	< 5	22	-----	86	0.0086	57	0.0057	19	0.0019
00-126-178	1388 276	2	< 5	24	-----	70	0.0070	51	0.0051	19	0.0019
00-126-179	1388 276	6	< 5	22	-----	78	0.0078	58	0.0058	23	0.0023
00-126-180	1388 276	< 2	< 5	22	-----	76	0.0076	54	0.0054	21	0.0021
00-126-181	1388 276	2	< 5	22	-----	68	0.0068	59	0.0059	21	0.0021
00-126-182	1388 276	2	< 5	20	-----	74	0.0074	49	0.0049	19	0.0019
00-126-183	1388 276	< 2	< 5	22	-----	62	0.0062	55	0.0055	19	0.0019
00-126-184	1388 276	< 2	< 5	22	-----	70	0.0070	55	0.0055	21	0.0021
00-126-185	1388 276	< 2	< 5	< 2	-----	34	0.0034	67	0.0067	18	0.0018
00-126-186	1388 276	< 2	< 5	2	-----	37	0.0037	72	0.0072	17	0.0017
00-126-187	1388 276	6	< 5	24	-----	98	0.0098	49	0.0049	18	0.0018
00-126-188	1388 276	< 2	< 5	24	-----	68	0.0068	55	0.0055	19	0.0019
00-126-189	1388 276	4	< 5	16	-----	120	0.0120	62	0.0062	29	0.0029
00-126-190	1388 276	4	< 5	22	-----	105	0.0105	53	0.0053	19	0.0019
00-126-191	1388 276	4	< 5	20	-----	76	0.0076	46	0.0046	17	0.0017
00-126-192	1388 276	2	< 5	18	-----	57	0.0057	44	0.0044	17	0.0017
00-126-193	1388 276	4	< 5	22	-----	62	0.0062	53	0.0053	18	0.0018
00-126-194	1388 276	2	< 5	18	-----	71	0.0071	51	0.0051	21	0.0021
00-126-195	1388 276	< 2	< 5	20	-----	56	0.0056	44	0.0044	18	0.0018
00-126-196	1388 276	4	< 5	20	-----	68	0.0068	53	0.0053	19	0.0019
00-126-197	1388 276	12	5	40	-----	203	0.0203	85	0.0085	22	0.0022
00-126-198	1388 276	14	< 5	< 2	-----	137	0.0137	23	0.0023	25	0.0025
00-126-199	1388 276	36	10	102	-----	132	0.0132	96	0.0096	19	0.0019
00-126-200	1388 276	10	15	172	-----	112	0.0112	140	0.0140	36	0.0036
00-126-201	1388 276	18	20	208	-----	164	0.0164	158	0.0158	35	0.0035
00-126-202	1388 276	24	15	222	-----	180	0.0180	134	0.0134	33	0.0033
00-126-203	1388 276	< 2	< 5	8	-----	96	0.0096	29	0.0029	27	0.0027
00-126-204	1388 276	6	< 5	90	-----	90	0.0090	46	0.0046	29	0.0029
00-126-205	1388 276	31.6	285	4210	-----	999	0.0999	957	0.0957	50	0.0050
00-126-206	1388 276	4	< 5	34	-----	76	0.0076	38	0.0038	30	0.0030
00-126-207	1388 276	6	< 5	34	-----	91	0.0091	55	0.0055	33	0.0033
00-126-208	1388 276	450	390	8220	-----	1480	0.1480	1405	0.1405	72	0.0072
00-126-209	1388 276	550	565	>10000	10.60	1200	0.1200	1200	0.1200	58	0.0058
00-126-210	1388 276	532	605	>10000	10.00	1090	0.1090	1620	0.1620	58	0.0058
00-126-211	1388 276	952	260	4990	-----	1860	0.1860	2210	0.2210	58	0.0058

CERTIFICATION: *[Signature]*

BONDAR CLEGG

10/14/02 MON 07:52 FAX 604 885 1071



10/14/02



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.-EXPLORATION  
 NORTH AMERICAN PALLADIUM  
 P.O. BOX 10547  
 THUNDER BAY, ON  
 P7B 6T9

Page Number :2  
 Total Pages :2  
 Certificate Date: 22-NOV-2000  
 Invoice No. : I0033238  
 P.O. Number :  
 Account : MZI

Project: 00-126  
 Comments: ATTN: MOE LAVIGNE

## CERTIFICATE OF ANALYSIS A0033238

SAMPLE	PREP CODE		Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Pd g/t	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-126-212	1388	276	652	150	836	-----	2820	0.2820	3040	0.3040	72	0.0072
00-126-213	1388	276	434	165	1390	-----	1285	0.1285	1320	0.1320	48	0.0048
00-126-214	1388	276	32	< 5	48	-----	287	0.0287	101	0.0101	31	0.0031
00-126-215	1388	276	14	< 5	42	-----	119	0.0119	78	0.0078	30	0.0030
00-126-216	1388	276	4	< 5	6	-----	80	0.0080	55	0.0055	28	0.0028
00-126-217	1388	276	160	165	2060	-----	649	0.0649	463	0.0463	38	0.0038
00-126-218	1388	276	116	130	1425	-----	617	0.0617	606	0.0606	34	0.0034
00-126-219	1388	276	22	85	1160	-----	374	0.0374	358	0.0358	46	0.0046
00-126-220	1388	276	< 2	< 5	48	-----	20	0.0020	76	0.0076	24	0.0024
00-126-221	1388	276	< 2	< 5	58	-----	12	0.0012	73	0.0073	19	0.0019
00-126-222	1388	276	4	< 5	36	-----	40	0.0040	51	0.0051	16	0.0016
00-126-223	1388	276	< 2	< 5	54	-----	93	0.0093	72	0.0072	20	0.0020
00-126-224	1388	276	< 2	< 5	44	-----	12	0.0012	70	0.0070	20	0.0020
00-126-225	1388	276	< 2	15	174	-----	63	0.0063	218	0.0218	53	0.0053
00-126-226	1388	276	14	40	360	-----	1255	0.1255	439	0.0439	62	0.0062
00-126-227	1388	276	10	45	190	-----	909	0.0909	329	0.0329	43	0.0043
00-126-228	1388	276	18	45	318	-----	1490	0.1490	595	0.0595	55	0.0055
00-126-229	1388	276	6	25	272	-----	453	0.0453	295	0.0295	26	0.0026
00-126-230	1388	276	58	195	2780	-----	651	0.0651	467	0.0467	52	0.0052
00-126-231	1388	276	134	250	2670	-----	974	0.0974	609	0.0609	69	0.0069
126-STA-164	214	238	328	305	3360	-----	1255	0.1255	1135	0.1135	45	0.0045

CERTIFICATION: \_\_\_\_\_

BONDAR CLEGG

10/14/02 MON 07:53 FAX 604 985 1071



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
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 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.-EXPLORATION  
 NORTH AMERICAN PALLADIUM  
 P.O. BOX 10547  
 THUNDER BAY, ON  
 P7B 6T9

Page Number : 1  
 Total Pages : 1  
 Certificate Date: 15-NOV-2000  
 Invoice No. : I0033260  
 P.O. Number :  
 Account : MZI

Project : 00-126  
 Comments: ATTN: MOE LAVIGNE

## CERTIFICATE OF ANALYSIS A0033260

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-126-232	1388 276	126	290	2920	810	0.0810	689	0.0689	51	0.0051
00-126-233	1388 276	30	405	5270	2130	0.2130	1350	0.1350	98	0.0098
00-126-234	1388 276	56	5	78	47	0.0047	86	0.0086	18	0.0018
00-126-235	1388 276	14	5	84	121	0.0121	84	0.0084	24	0.0024
00-126-236	1388 276	2	< 5	20	102	0.0102	54	0.0054	21	0.0021
00-126-237	1388 276	4	5	24	115	0.0115	67	0.0067	25	0.0025
00-126-238	1388 276	2	5	38	47	0.0047	79	0.0079	20	0.0020
00-126-239	1388 276	2	< 5	30	87	0.0087	89	0.0089	26	0.0026
00-126-240	1388 276	2	15	126	23	0.0023	212	0.0212	37	0.0037
00-126-241	1388 276	92	35	248	1650	0.1650	574	0.0574	78	0.0078
00-126-242	1388 276	334	45	290	2420	0.2420	917	0.0917	82	0.0082
00-126-243	1388 276	206	115	1700	824	0.0824	415	0.0415	43	0.0043
00-126-244	1388 276	132	435	6160	482	0.0482	829	0.0829	52	0.0052
00-126-245	1388 276	556	325	5280	1860	0.1860	1875	0.1875	62	0.0062
00-126-246	1388 276	180	225	3350	407	0.0407	865	0.0865	46	0.0046
00-126-247	1388 276	330	225	2750	1085	0.1085	1550	0.1550	58	0.0058
00-126-248	1388 276	120	300	4730	523	0.0523	867	0.0867	39	0.0039
00-126-249	1388 276	168	160	2270	712	0.0712	605	0.0605	36	0.0036
00-126-250	1388 276	118	100	746	275	0.0275	363	0.0363	29	0.0029
00-126-251	1388 276	384	690	9970	1455	0.1455	2950	0.2950	103	0.0103
00-126-252	1388 276	132	230	2260	507	0.0507	583	0.0583	41	0.0041
00-126-253	1388 276	14	65	840	96	0.0096	245	0.0245	24	0.0024
00-126-254	1388 276	24	40	558	120	0.0120	231	0.0231	25	0.0025
00-126-255	1388 276	120	75	1155	71	0.0071	203	0.0203	26	0.0026
00-126-256	1388 276	82	100	1110	363	0.0363	264	0.0264	32	0.0032
00-126-257	1388 276	132	125	1450	733	0.0733	411	0.0411	44	0.0044
00-126-258	1388 276	8	95	1155	31	0.0031	189	0.0189	22	0.0022
00-126-259	1388 276	14	85	812	30	0.0030	125	0.0125	16	0.0016
00-126-260	1388 276	10	20	118	32	0.0032	102	0.0102	16	0.0016
00-126-261	1388 276	2	30	126	14	0.0014	122	0.0122	18	0.0018
00-126-262	1388 276	2	15	102	30	0.0030	131	0.0131	20	0.0020
00-126-263	1388 276	20	50	456	102	0.0102	102	0.0102	17	0.0017
00-126-264	1388 276	48	180	1890	61	0.0061	114	0.0114	18	0.0018
00-126-265	1388 276	38	85	612	92	0.0092	179	0.0179	21	0.0021
00-126-266	1388 276	88	85	440	265	0.0265	239	0.0239	27	0.0027
00-126-267	1388 276	104	55	112	136	0.0136	243	0.0243	27	0.0027
00-126-268	1388 276	22	35	44	77	0.0077	213	0.0213	24	0.0024
00-126-269	1388 276	18	50	68	82	0.0082	276	0.0276	30	0.0030
00-126-270	1388 276	68	75	110	90	0.0090	221	0.0221	26	0.0026
126-STA-168	214 238	488	330	3380	1230	0.1230	1150	0.1150	43	0.0043

CERTIFICATION: \_\_\_\_\_



# ALS Chemex

Aurora Laboratory Services Ltd  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-8163

To: LAC DES ILES MINES LTD.-EXPLORATION  
 NORTH AMERICAN PALLADIUM  
 P.O. BOX 10547  
 THUNDER BAY, ON  
 P7B 8T9

Page Number : 1  
 Total Pages : 1  
 Certificate Date: 22-NOV-2000  
 Invoice No. : I0033464  
 P.O. Number :  
 Account : MZI

Project : 00-126  
 Comments: ATTN: MOE LAVIGNE

**CERTIFICATE OF ANALYSIS**      **A0033464**

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Pd g/t	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-126-271	1388 276	10	55	296	-----	79	0.0079	223	0.0223	20	0.0020
00-126-272	1388 276	28	75	662	-----	204	0.0204	433	0.0433	27	0.0027
00-126-273	1388 276	38	110	276	-----	136	0.0136	199	0.0199	18	0.0018
00-126-274	1388 276	146	< 5	46	-----	134	0.0134	42	0.0042	31	0.0031
00-126-275	1388 276	6	115	706	-----	111	0.0111	327	0.0327	24	0.0024
00-126-276	1388 276	14	55	382	-----	109	0.0109	358	0.0358	37	0.0037
00-126-277	1388 276	8	50	496	-----	115	0.0115	253	0.0253	27	0.0027
00-126-278	1388 276	< 2	10	62	-----	12	0.0012	67	0.0067	8	0.0008
00-126-279	1388 276	20	75	374	-----	1825	0.1825	693	0.0693	80	0.0080
00-126-280	1388 276	20	65	346	-----	1185	0.1185	446	0.0446	51	0.0051
00-126-281	1388 276	56	80	224	-----	953	0.0953	400	0.0400	41	0.0041
00-126-282	1388 276	128	355	3310	-----	1400	0.1400	785	0.0785	74	0.0074
00-126-283	1388 276	384	650	>10000	12.20	1550	0.1550	1075	0.1075	76	0.0076
00-126-284	1388 276	468	650	>10000	12.30	1055	0.1055	919	0.0919	60	0.0060
00-126-285	1388 276	482	445	5640	-----	1590	0.1590	1180	0.1180	78	0.0078
00-126-286	1388 276	310	410	4680	-----	1670	0.1670	1170	0.1170	77	0.0077
00-126-287	1388 276	224	430	4680	-----	964	0.0964	996	0.0996	70	0.0070
00-126-288	1388 276	296	285	3440	-----	1205	0.1205	983	0.0983	72	0.0072
00-126-289	1388 276	128	400	5400	-----	939	0.0939	908	0.0908	57	0.0057
00-126-290	1388 276	42	205	2920	-----	612	0.0612	490	0.0490	32	0.0032
00-126-291	1388 276	128	250	3190	-----	394	0.0394	494	0.0494	34	0.0034
00-126-292	1388 276	266	415	5290	-----	1045	0.1045	932	0.0932	52	0.0052
00-126-293	1388 276	394	370	4780	-----	1005	0.1005	794	0.0794	48	0.0048
126-STA-173	214 238	320	270	3070	-----	1185	0.1185	1105	0.1105	41	0.0041

CERTIFICATION: \_\_\_\_\_



# ALS Chemex

Aurora Laboratory Services Ltd.  
Analytical Chemists \* Geochemists \* Registered Assayers  
5175 Timberlea Blvd., Mississauga  
Ontario, Canada L4W 2S3  
PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.-EXPLORATION  
NORTH AMERICAN PALLADIUM  
P.O. BOX 10547  
THUNDER BAY, ON  
P7B 6T9

Page Number :1-A  
Total Pages :2  
Certificate Date: 13-AUG-2001  
Invoice No. :10121864  
P.O. Number :1000189  
Account :MZI

Project: #1033-00-126  
Comments: ATTN: MOE LAVIGNE

## CERTIFICATE OF ANALYSIS

A0121864

SAMPLE	PREP CODE	Pd ppb	Pt ppb	Au ppb	Al2O3	Fe2O3	MgO	Cu %	Ni %	Co %	Fe %	S %	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm
		ICP-MS	ICP-MS	ICP-MS	% Calc	% Calc	% Calc	calc.	calc.	calc.	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)
00-126-294	1388 294	6700	523	530	12.85	9.54	12.40	0.1665	0.1555	0.0086	6.67	0.52	0.5	6.79	< 5	80	< 0.5	< 2	5.8	2.0
00-126-295	1388 294	4300	443	200	17.05	5.06	6.85	0.0721	0.0996	0.0051	3.54	0.19	< 0.5	9.02	< 5	140	< 0.5	< 2	6.1	1.0
00-126-296	1388 294	4000	317	230	17.85	6.12	8.89	0.0798	0.1005	0.0057	4.28	0.23	< 0.5	9.44	< 5	120	< 0.5	< 2	5.7	1.5
00-126-297	1388 294	8900	726	500	14.60	9.32	9.50	0.1830	0.2290	0.0095	6.52	0.80	0.5	7.73	< 5	90	< 0.5	< 2	5.3	2.5
00-126-298	1388 294	9800	826	790	10.00	11.90	12.50	0.2610	0.2720	0.0115	8.31	0.90	2.0	5.29	< 5	50	< 0.5	< 2	4.4	2.0
00-126-299	1388 276	4600	365	370	15.65	6.91	8.92	0.0927	0.1035	0.0060	4.83	0.25	< 0.5	8.28	< 5	140	< 0.5	< 2	5.3	1.5
00-126-300	1388 276	3900	320	260	14.90	7.78	9.52	0.0802	0.1050	0.0065	5.44	0.26	< 0.5	7.89	< 5	140	< 0.5	< 2	5.4	1.5
00-126-301	1388 226	190	16.5	29	16.85	9.45	3.08	0.0176	0.0077	0.0033	6.61	0.14	< 0.5	8.92	< 5	210	< 0.5	< 2	5.3	1.0
00-126-302	1388 276	3800	353	79	18.75	5.19	7.46	0.0256	0.0602	0.0044	3.63	0.06	< 0.5	9.92	< 5	140	< 0.5	< 2	6.1	1.5
00-126-303	1388 276	1640	93.0	20	19.55	4.27	7.11	0.0049	0.0357	0.0038	2.99	< 0.01	< 0.5	10.36	< 5	130	< 0.5	< 2	6.3	1.5
00-126-304	1388 294	980	61.5	41	15.75	8.64	5.32	0.0287	0.0255	0.0045	6.04	0.13	< 0.5	8.33	< 5	160	< 0.5	< 2	5.0	1.5
00-126-305	1388 276	2700	196.5	93	21.2	5.96	8.07	0.0151	0.0534	0.0046	4.17	0.03	< 0.5	11.23	< 5	150	< 0.5	< 2	6.9	1.5
00-126-306	1388 226	1210	108.0	140	13.00	9.51	11.10	0.0401	0.0611	0.0068	6.65	0.15	< 0.5	6.88	< 5	160	< 0.5	< 2	5.9	2.0
00-126-307	1388 276	1500	137.5	54	20.4	4.55	6.35	0.0182	0.0395	0.0038	3.18	0.05	< 0.5	10.81	< 5	210	< 0.5	< 2	6.7	1.5
00-126-308	1388 276	1260	92.0	29	19.90	4.92	7.64	0.0105	0.0366	0.0040	3.44	0.04	< 0.5	10.53	< 5	130	< 0.5	< 2	6.8	1.5
00-126-309	1388 294	280	35.0	9	19.15	4.35	6.43	0.0041	0.0277	0.0035	3.04	< 0.01	< 0.5	10.13	< 5	150	< 0.5	< 2	6.9	1.0
00-126-310	1388 294	320	58.0	33	16.25	3.96	5.52	0.0049	0.0273	0.0034	2.77	0.01	< 0.5	8.61	< 5	160	< 0.5	< 2	7.0	2.0
00-126-311	1388 226	42	4.0	17	17.20	9.62	3.98	0.0143	0.0061	0.0039	6.73	0.24	< 0.5	9.10	< 5	210	< 0.5	< 2	5.2	1.5
00-126-312	1388 276	270	23.0	6	20.7	4.68	5.95	0.0027	0.0217	0.0032	3.27	< 0.01	< 0.5	10.94	< 5	220	< 0.5	< 2	6.0	1.0
00-126-313	1388 294	100	9.5	10	15.65	7.43	3.55	0.0105	0.0070	0.0037	5.20	0.08	< 0.5	8.29	< 5	220	< 0.5	< 2	4.5	1.5
00-126-314	1388 276	1560	173.5	125	20.4	5.48	7.33	0.0582	0.0663	0.0048	3.83	0.19	< 0.5	10.80	< 5	190	< 0.5	< 2	7.0	1.5
00-126-315	1388 276	760	96.5	29	20.4	4.66	7.30	0.0151	0.0367	0.0039	3.26	0.03	< 0.5	10.82	< 5	110	< 0.5	< 2	6.9	1.5
00-126-316	1388 276	1430	172.0	75	21.5	5.76	9.00	0.0310	0.0500	0.0050	4.03	0.08	< 0.5	11.40	< 5	110	< 0.5	< 2	7.7	1.5
00-126-317	1388 276	1950	119.5	63	21.0	4.88	7.79	0.0241	0.0372	0.0042	3.41	0.05	< 0.5	11.10	< 5	150	< 0.5	< 2	7.5	1.5
00-126-318	1388 276	370	57.5	34	16.50	5.78	8.11	0.0196	0.0446	0.0050	4.04	0.06	0.5	8.72	< 5	160	< 0.5	< 2	7.2	3.0
00-126-319	1388 276	105	11.5	27	18.40	6.36	9.40	0.0157	0.0390	0.0050	4.45	0.06	< 0.5	9.75	< 5	140	< 0.5	< 2	7.2	1.5
00-126-320	1388 276	145	30.5	19	18.50	5.83	8.72	0.0281	0.0414	0.0048	4.08	0.08	< 0.5	9.78	< 5	240	< 0.5	< 2	6.9	1.5
00-126-321	1388 294	240	53.0	16	19.40	6.15	9.14	0.0183	0.0410	0.0048	4.30	0.31	< 0.5	10.28	< 5	130	< 0.5	< 2	6.2	1.5
00-126-322	1388 276	19	7.5	9	15.45	7.11	9.58	0.0209	0.0175	0.0044	4.97	0.06	< 0.5	8.18	< 5	100	< 0.5	< 2	5.9	1.5
00-126-323	1388 226	9	6.0	1	13.10	7.33	10.70	0.0056	0.0263	0.0050	5.13	0.01	< 0.5	6.94	< 5	130	< 0.5	< 2	6.6	1.5
00-126-324	1388 294	440	99.5	9	19.30	3.95	7.25	0.0035	0.0247	0.0035	2.76	< 0.01	< 0.5	10.22	< 5	130	< 0.5	< 2	6.6	1.0
00-126-325	1388 294	1920	171.0	120	19.30	5.15	7.61	0.0790	0.0641	0.0049	3.60	0.24	< 0.5	10.22	< 5	90	< 0.5	< 2	7.3	1.5
00-126-326	1388 276	610	80.5	44	19.05	5.03	8.29	0.0171	0.0390	0.0046	3.52	0.04	0.5	10.08	< 5	70	< 0.5	< 2	7.0	1.0
00-126-327	1388 276	35	26.0	37	17.80	5.58	7.81	0.0131	0.0277	0.0045	3.90	0.05	< 0.5	9.43	< 5	80	< 0.5	< 2	6.7	1.0
00-126-328	1388 276	16	7.5	21	15.75	5.39	8.14	0.0134	0.0366	0.0046	3.77	0.03	< 0.5	8.33	< 5	60	< 0.5	< 2	6.9	1.5
00-126-329	1388 276	870	92.0	165	14.95	7.21	7.94	0.0562	0.0513	0.0058	5.04	0.23	< 0.5	7.91	< 5	60	< 0.5	< 2	6.8	1.5
00-126-330	1388 276	760	82.0	83	17.20	5.95	7.15	0.0454	0.0439	0.0048	4.16	0.10	< 0.5	9.10	< 5	100	< 0.5	< 2	6.3	1.5
00-126-331	1388 276	85	47.0	12	19.70	4.53	6.91	0.0080	0.0265	0.0037	3.17	0.01	< 0.5	10.42	< 5	170	< 0.5	< 2	6.4	1.5
00-126-332	1388 276	230	78.5	10	18.60	4.90	8.52	0.0068	0.0312	0.0042	3.43	0.01	< 0.5	9.84	< 5	60	< 0.5	< 2	6.9	1.0
00-126-333	1388 276	340	67.0	25	17.70	5.10	8.69	0.0169	0.0398	0.0044	3.57	0.03	< 0.5	9.37	< 5	50	< 0.5	< 2	6.4	1.0

CERTIFICATION: \_\_\_\_\_



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.-EXPLORATION  
 NORTH AMERICAN PALLADIUM  
 P.O. BOX 10547  
 THUNDER BAY, ON  
 P7B 6T9

Project: #1033-00-126  
 Comments: ATTN: MOE LAVIGNE

Page Number :2-A  
 Total Pages :2  
 Certificate Date: 13-AUG-2001  
 Invoice No. : 10121864  
 P.O. Number : 1000189  
 Account : MZI

## CERTIFICATE OF ANALYSIS

A0121864

SAMPLE	PREP CODE	Pd ppb	Pt ppb	Au ppb	Al2O3	Fe2O3	MgO	Cu %	Ni %	Co %	Fe %	S %	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm
		ICP-MS	ICP-MS	ICP-MS	% Calc	% Calc	% Calc	calc.	calc.	calc.	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)
00-126-334	1388 276	185	60.0	10	15.70	5.26	8.66	0.0071	0.0312	0.0045	3.68	0.01	< 0.5	8.32	5	50	< 0.5	< 2	6.7	1.5
00-126-335	1388 276	310	144.5	6	18.65	4.36	7.20	0.0039	0.0239	0.0037	3.05	0.01	< 0.5	9.88	5	50	< 0.5	< 2	7.2	1.0
00-126-STA-204	2143285	3000	250	350	15.75	6.25	9.67	0.1080	0.1260	0.0063	4.37	0.32	0.5	8.34	15	60	< 0.5	< 2	6.0	1.0

CERTIFICATION: \_\_\_\_\_ +



# ALS Chemex

Aurora Laboratory Services Ltd.  
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 5175 Timberlea Blvd., Mississauga  
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 THUNDER BAY, ON  
 P7B 6T9

Project: #1033-00-126  
 Comments: ATTN: MOE LAVIGNE

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 Account :MZI

## CERTIFICATE OF ANALYSIS A0122065

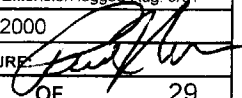
SAMPLE	PREP CODE	Pd ppb	Pt ppb	Au ppb	Al2O3	Fe2O3	MgO	Cu %	Ni %	Co %	Fe %	S %	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm
		ICP-MS	ICP-MS	ICP-MS	% Calc	% Calc	% Calc	calc.	calc.	calc.	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)
00-126-336	1388 276	140	55.0	4	17.60	4.78	8.75	0.0109	0.0257	0.0038	3.34	0.02	< 0.5	9.31	< 5	40	< 0.5	< 2	6.3	< 0.5
00-126-337	1388 276	84	35.5	3	17.95	5.23	9.15	0.0042	0.0274	0.0041	3.66	0.02	< 0.5	9.49	< 5	40	< 0.5	< 2	6.6	< 0.5
00-126-338	1388 276	130	52.0	3	17.25	4.82	8.97	0.0034	0.0271	0.0040	3.37	0.02	< 0.5	9.13	< 5	40	< 0.5	< 2	6.3	< 0.5
00-126-339	1388 276	110	35.0	4	17.10	4.59	8.22	0.0036	0.0247	0.0035	3.21	0.01	< 0.5	9.05	< 5	60	< 0.5	< 2	6.2	< 0.5
00-126-340	1388 276	230	45.5	30	18.20	4.92	7.98	0.0133	0.0413	0.0040	3.44	0.04	< 0.5	9.64	< 5	50	< 0.5	< 2	6.9	< 0.5
00-126-341	1388 276	1980	228	240	15.10	7.45	8.41	0.1185	0.1305	0.0068	5.21	0.39	< 0.5	7.99	< 5	60	< 0.5	< 2	5.7	< 0.5
00-126-342	1388 276	1230	173.5	195	16.65	5.79	7.33	0.0720	0.0886	0.0050	4.05	0.19	< 0.5	8.80	< 5	50	< 0.5	< 2	6.5	< 0.5
00-126-343	1388 276	1140	151.0	175	16.80	5.98	8.29	0.0790	0.0880	0.0053	4.18	0.24	< 0.5	8.90	< 5	40	< 0.5	< 2	6.6	< 0.5
00-126-344	1388 276	1210	190.5	110	17.60	5.55	7.74	0.0518	0.0913	0.0049	3.88	0.14	< 0.5	9.31	< 5	60	< 0.5	< 2	6.4	< 0.5
00-126-345	1388 276	1770	242	230	15.65	7.38	9.30	0.1130	0.1150	0.0063	5.16	0.29	< 0.5	8.27	< 5	50	< 0.5	< 2	6.2	< 0.5
00-126-346	1388 276	2700	268	340	14.70	7.23	7.63	0.1530	0.1675	0.0071	5.06	0.51	< 0.5	7.78	< 5	50	< 0.5	< 2	5.8	< 0.5
00-126-347	1388 226	1620	164.0	230	13.55	7.63	9.04	0.1000	0.1130	0.0065	5.34	0.29	< 0.5	7.17	< 5	80	< 0.5	< 2	5.4	< 0.5
00-126-348	1388 294	400	46.5	24	15.05	6.95	11.35	0.0167	0.0485	0.0053	4.86	0.04	< 0.5	7.96	< 5	130	< 0.5	< 2	6.2	< 0.5
00-126-349	1388 294	48	6.0	10	16.80	5.09	3.81	0.0126	0.0104	0.0024	3.56	0.53	< 0.5	8.89	< 5	370	< 0.5	< 2	5.7	< 0.5
00-126-350	1388 294	31	5.0	23	16.45	5.19	3.43	0.0378	0.0095	0.0035	3.63	0.78	< 0.5	8.71	< 5	240	< 0.5	< 2	6.0	< 0.5
00-126-351	1388 226	550	93.0	11	10.30	7.71	13.10	0.0309	0.0710	0.0059	5.39	0.11	< 0.5	5.44	< 5	200	< 0.5	6	4.6	< 0.5
00-126-352	1388 226	850	140.0	33	9.69	8.54	15.70	0.0525	0.0972	0.0071	5.97	0.15	< 0.5	5.13	< 5	50	< 0.5	2	4.1	< 0.5
00-126-353	1388 294	880	158.5	23	9.28	8.18	15.10	0.0410	0.0827	0.0069	5.72	0.22	< 0.5	4.91	< 5	40	< 0.5	4	4.3	< 0.5
00-126-354	1388 276	990	178.0	41	9.09	7.99	15.10	0.0258	0.0726	0.0065	5.59	0.09	< 0.5	4.81	< 5	40	< 0.5	2	4.2	< 0.5
00-126-355	1388 276	1730	203	81	16.25	5.85	9.85	0.0662	0.0836	0.0051	4.09	0.19	< 0.5	8.60	< 5	110	< 0.5	< 2	5.7	< 0.5
00-126-356	1388 226	670	172.5	50	8.45	9.19	16.90	0.0266	0.0734	0.0072	6.43	0.09	< 0.5	4.47	< 5	20	< 0.5	2	4.0	< 0.5
00-126-357	1388 226	730	168.0	86	7.92	9.55	17.40	0.0479	0.0849	0.0078	6.68	0.15	< 0.5	4.19	< 5	10	< 0.5	2	3.8	< 0.5
00-126-358	1388 226	810	161.0	66	8.67	9.38	16.45	0.0459	0.0787	0.0075	6.56	0.15	< 0.5	4.59	< 5	50	< 0.5	2	3.9	< 0.5
00-126-359	1388 294	68	13.5	4	15.65	6.86	3.50	0.0059	0.0070	0.0024	4.80	0.28	< 0.5	8.28	< 5	530	0.5	< 2	3.5	< 0.5
00-126-360	1388 226	73	8.5	7	15.40	6.66	2.60	0.0066	0.0048	0.0025	4.66	0.57	< 0.5	8.16	< 5	660	0.5	2	3.1	< 0.5
00-126-361	1388 226	570	113.5	30	8.50	9.36	16.35	0.0188	0.0594	0.0071	6.55	0.07	< 0.5	4.50	< 5	50	< 0.5	4	3.9	< 0.5
00-126-362	1388 294	16	4.5	< 1	15.90	6.98	2.98	0.0026	0.0030	0.0023	4.88	0.16	< 0.5	8.42	< 5	640	0.5	2	3.5	< 0.5
00-126-363	1388 226	21	6.0	1	15.05	6.65	2.90	0.0030	0.0034	0.0022	4.65	0.17	< 0.5	7.97	< 5	560	0.5	6	3.4	0.5
00-126-364	1388 226	360	91.0	14	12.85	8.61	10.65	0.0124	0.0346	0.0049	6.02	0.08	< 0.5	6.79	< 5	300	< 0.5	< 2	4.3	< 0.5
00-126-365	1388 226	260	60.5	13	13.40	7.79	7.91	0.0125	0.0251	0.0041	5.45	0.08	< 0.5	7.09	< 5	380	< 0.5	8	3.9	< 0.5
00-126-366	1388 294	520	167.0	9	9.15	9.65	17.95	0.0078	0.0590	0.0076	6.75	0.01	< 0.5	4.84	< 5	50	< 0.5	6	4.2	< 0.5
00-126-367	1388 226	400	87.0	25	16.05	6.65	11.50	0.0165	0.0466	0.0052	4.65	0.03	< 0.5	8.49	< 5	60	< 0.5	2	6.2	< 0.5
00-126-368	1388 276	790	187.5	47	8.14	9.14	17.60	0.0266	0.0716	0.0075	6.39	0.07	< 0.5	4.31	< 5	20	< 0.5	2	4.0	< 0.5
00-126-369	1388 276	720	177.0	62	8.29	9.06	17.55	0.0244	0.0666	0.0074	6.34	0.06	< 0.5	4.39	< 5	10	< 0.5	< 2	4.1	< 0.5
00-126-370	1388 276	670	171.0	54	9.52	9.32	17.65	0.0294	0.0771	0.0075	6.52	0.08	< 0.5	5.04	< 5	30	< 0.5	4	4.2	< 0.5
00-126-STA-206	2143285	3000	277	260	15.45	6.33	10.25	0.1150	0.1285	0.0062	4.43	0.33	< 0.5	8.18	5	50	< 0.5	< 2	5.8	< 0.5

CERTIFICATION: \_\_\_\_\_ +

# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.

LAC DES ILES MINES LTD.

<b>PROPERTY:</b>	LAC DES ILES	<b>CLAIM NUMBER:</b>	253	<b>DOWNHOLE SURVEY METHOD:</b>			Maxibor	<b>DRILLING COMPANY:</b>			CHIBOUGAMAU				
<b>HOLE NO.:</b>	00-127	<b>LENGTH: (m)</b>	1080 m	<b>CORE SIZE:</b>	NQ	<b>DEPTH</b>	<b>DIP</b>	<b>AZM</b>	<b>DEPTH</b>	<b>DIP</b>	<b>AZM</b>	<b>REMARKS:</b>	Core stored at Lac des Iles mine site		
<b>LOCATION - MINE GRID</b>		<b>NORTHING:</b>	32058.171	<b>EASTING:</b>	32535.536							Oriented core, original hole logged Nov. 24/00 Extension logged Aug. 9/01			
<b>SECTION:</b>	506N	<b>ZONE:</b>	Roby	<b>ELEVATION:</b>	501.819							<b>DATE LOGGED:</b>	Nov. 24, 2000		
<b>COLLAR ORIENTATION (AZIMUTH / DIP);</b>		<b>PLANNED:</b>	250/-51°	<b>SURVEYED:</b>	248.730/-50.769°							<b>LOGGED:</b>	W. Darch	<b>SIGNATURE:</b>	
<b>HOLE STARTED:</b>	23-Nov-00	<b>HOLE FINISHED:</b>	08-Aug-01	<b>MAG DECLINATION:</b>	2.1° w							<b>SHEET</b>	1	<b>OF</b>	29

METERAGE		DESCRIPTION	Rock Code	Alt <sup>n</sup>				Bx Matrix					SAMPLES					ASSAYS					
FROM	TO			Plag	Pxr	Comp	Prop <sup>r</sup>	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %				
0.00	2.00			<b>CASING</b>  No core recovery. Casing left in hole.																			
2.00	40.45	<b>NORITE</b>  Mottled pale to medium grey and brown. Medium grained, equigranular, massive. 50-60% Plag; 40-50% Opx; <5% Cpx. Ranges from non to moderately magnetic. Patchy or irregular weak to moderate alteration where Opx is partially converted to tremolite. Grain boundaries are sharp and well defined. No visible sulfides. 10.50m - 10.70m - Mafic dike at 70° to core axis. 11.50m - 11.65m - Mafic dike at 75° to core axis. 18.30m - 19.00m - Moderate alteration of Opx to tremolite centered on felsic dikes at 31.30m - 31.40m and 32.30m - 32.45m. Bottom contact sharp at 50° to core axis.					001	2.00	3.00	1.00	nil		0.16	0.03	0.02	---	---	---					
							002	3.00	6.00	3.00	nil		0.22	0.05	0.03	---	---	---					
							003	6.00	9.00	3.00	nil		0.23	0.04	0.02	---	---	---					
							004	9.00	12.00	3.00	nil		0.15	0.04	0.01	---	---	---					
							005	12.00	15.00	3.00	nil		0.08	0.02	0.02	---	---	---					
							006	15.00	18.00	3.00	nil		0.17	0.04	0.02	---	---	---					
							007	18.00	21.00	3.00	nil		0.09	0.02	0.01	---	---	---					
							008	21.00	24.00	3.00	nil		0.10	0.03	0.02	---	---	---					
							009	24.00	27.00	3.00	nil		0.08	0.01	0.01	---	---	---					
							010	27.00	30.00	3.00	nil		0.08	0.01	0.01	---	---	---					
							011	30.00	33.00	3.00	nil		0.09	0.02	0.01	---	---	---					
							012	33.00	36.00	3.00	nil		0.06	0.00	0.01	---	---	---					
							013	36.00	39.00	3.00	nil		0.09	0.02	0.01	---	---	---					
							014	39.00	40.45	1.45	nil		0.05	0.01	0.01	---	---	---					
40.45	49.50	<b>DIABASE DIKE</b>  Dark green-grey to black. Fine grained, equigranular, massive. Weakly magnetic. Bottom contact at 70° to core axis.					015	40.45	42.00	1.55	nil		0.07	0.00	0.01	---	---	---					
							016	42.00	45.00	3.00	nil		0.10	0.00	0.02	---	---	---					
							017	45.00	48.00	3.00	nil		0.14	0.01	0.02	---	---	---					
							018	48.00	49.50	1.50	nil		0.04	0.01	0.01	---	---	---					



52H04NE2019 2.24642

LAC DES ILES

030

11/11/02

## DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.

LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-127LOGGED BY: W. Darch

SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
49.50	135.00	<p><b>NORITE</b></p> <p>Mottled pale to medium grey and brown. Medium grained, equigranular, massive. 50-55% Plag; 45-50% Opx; &lt;5% Cpx. Weakly magnetic. Very weakly altered with irregular sections of moderate alteration with Opx converted to tremolite and Cpx to actinolite (very minor). No visible sulfides.</p> <p>56.70m - 62.50m - Altered norite centered on diabase dikes at 58.00m - 59.00m (at 55° to core axis) and 60.00m - 60.40m (at 55° to core axis).</p> <p>68.50m - 70.50m - Altered norite centered on narrow felsic dike.</p> <p>84.00m - 88.40m - Altered norite, Opx converted to tremolite and Plag is moderately sausseritized. Small felsic dikes are common in this section.</p> <p>93.50m - 95.70m - Moderate alteration peripheral to diabase dikelets at 94.30m - 94.45m and 95.50m - 95.65m.</p> <p>97.40m - 97.80m - 1-2% disseminated pyrrhotite with subordinate chalcopyrite.</p> <p>107.10m - 107.20m - Felsic dike at 55° to core axis.</p> <p>118.65m - 119.50m - Very fine grained mafic dike.</p> <p>122.90m - 123.20m - Very fine grained mafic dike at 40° to core axis.</p> <p>125.40m - 127.60m - Very fine grained mafic dike at 60° to core axis.</p> <p>Entire section is moderately altered and highly deformed. Numerous quartz-carbonate healed fractures (incipient brecciation). Contacts are serpentinized.</p>	1.5	1.5			019	49.50	51.00	1.50	nil		2.59	0.21	0.20	---	---	---
			1.5	1.5			020	51.00	54.00	3.00	nil		0.99	0.11	0.10	---	---	---
			2	2.5			021	54.00	57.00	3.00	nil		0.11	0.03	0.01	---	---	---
			2.5	3			022	57.00	60.00	3.00	nil		0.07	0.02	0.01	---	---	---
			2.5	3			023	60.00	63.00	3.00	nil		0.18	0.05	0.01	---	---	---
			2	2.5			024	63.00	66.00	3.00	nil		0.46	0.06	0.03	---	---	---
			1.5	2			025	66.00	69.00	3.00	nil		0.06	0.02	0.01	---	---	---
			2	2.5			026	69.00	72.00	3.00	nil		0.05	0.01	0.01	---	---	---
			1.5	1.5			027	72.00	75.00	3.00	nil		0.06	0.03	0.01	---	---	---
			1.5	1.5			028	75.00	78.00	3.00	nil		0.07	0.02	0.01	---	---	---
			1.5	1.5			029	78.00	81.00	3.00	nil		0.07	0.03	0.01	---	---	---
			1.5	1.5			030	81.00	84.00	3.00	nil		0.22	0.05	0.02	---	---	---
			2	2.5			031	84.00	87.00	3.00	nil		0.47	0.06	0.02	---	---	---
			2	2.5			032	87.00	88.00	1.00	nil		0.25	0.04	0.01	---	---	---
			1.5	1.5			033	88.00	90.00	2.00	nil		0.15	0.04	0.01	---	---	---
			1.5	1.5			034	90.00	93.00	3.00	nil		0.15	0.03	0.01	---	---	---
			2	2.5			035	93.00	96.00	3.00	nil		0.29	0.05	0.01	---	---	---
			1.5	1.5			036	96.00	97.00	1.00	nil		0.70	0.15	0.01	---	---	---
			1.5	1.5			037	97.00	98.00	1.00	1.00		0.61	0.10	0.03	---	---	---
			1.5	1.5			038	98.00	101.00	3.00	nil		0.17	0.04	0.02	---	---	---
		1.5	1.5			039	101.00	103.00	2.00	nil		0.12	0.04	0.01	---	---	---	
		2	2			040	103.00	105.00	2.00	nil		0.12	0.04	0.02	---	---	---	
		2	2			041	105.00	108.00	3.00	nil		0.15	0.04	0.02	---	---	---	
		1.5	1.5			042	108.00	111.00	3.00	nil		0.09	0.03	0.01	---	---	---	
		1.5	1.5			043	111.00	114.00	3.00	nil		0.14	0.04	0.01	---	---	---	
		1.5	1.5			044	114.00	117.00	3.00	nil		0.18	0.05	0.02	---	---	---	
		2	2			045	117.00	118.50	1.50	nil		1.72	0.20	0.16	---	---	---	
						046	118.50	119.50	1.00	nil		0.22	0.03	0.01	---	---	---	
		2	2			047	119.50	121.00	1.50	nil		0.23	0.05	0.01	---	---	---	
		2	2			048	121.00	122.60	1.60	nil		0.47	0.07	0.04	---	---	---	





## DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.

LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-127

LOGGED BY: W. Darch

SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
151.30	176.00	<b>MELANOGABBRO</b>  Medium grey to green-grey. Medium grained, equigranular, massive. 20-35% Plag; 65-85% Cpx. Non-magnetic. Alteration is weak to moderate, with Cpx predominantly to actinolite, and locally to serpentine. Trace very fine grained sulfides (chalcopyrite+pyrrhotite) distributed irregularly throughout. 154.50m - 156.10m - Gabbro. Chalcopyrite+/-pyrrhotite along fractures. 162.10m - 162.70m - Moderately serpentinized. 165.90m - 166.10m - Felsic dike. 174.65m - 176.00m - Mafic dike at 40° to core axis. Weakly magnetic.	1.5	2			061	151.30	153.00	1.70	tr		0.61	0.10	0.08	0.047	0.065	0.005
			1.5	2			062	153.00	156.00	3.00	tr	3:1	1.61	0.18	0.16	0.203	0.057	0.005
			1.5	2			063	156.00	159.00	3.00	tr		0.81	0.10	0.06	0.043	0.043	0.004
			1.5	2			064	159.00	160.00	1.00	tr		0.71	0.11	0.05	0.033	0.040	0.005
			1.5	2			065	160.00	165.00	5.00	tr		1.04	0.14	0.06	0.025	0.041	0.005
			1.5	2			066	165.00	168.00	3.00	tr		0.44	0.07	0.04	0.023	0.031	0.005
			1.5	2			067	168.00	171.00	3.00	nil		0.05	0.02	0.00	0.004	0.018	0.004
			1.5	2			068	171.00	173.00	2.00	tr		0.03	0.01	0.00	0.006	0.017	0.004
			1.5	2			069	173.00	174.65	1.65	tr		0.04	0.02	0.01	0.007	0.018	0.004
			1.5	2			070	174.65	176.00	1.35	tr		0.06	0.01	0.01	0.027	0.017	0.003
176.00	204.80	<b>MELANOGABBRO BRECCIA</b>  Fine to medium grained melanogabbro intruded by subsequent coarse gabbro. Assimilated remnants of melanogabbro as inclusions in the coarse gabbro sections. The melanogabbro has also been locally recrystallized resulting in a varied texture. Melanogabbro is dark green and coarse gabbro is mottled pale grey to green and dark green. Melanogabbro is 15-25% Plag; 75-85% Cpx, trace sodalite. Coarse gabbro is 45-55% Plag; 45-55% Cpx. Non-magnetic. Alteration is weak to locally moderate, with Cpx converted to actinolite. The melanogabbro is well mineralized, with finely					071	176.00	177.00	1.00	0.50	1:1	0.54	0.09	0.02	0.084	0.054	0.007
							072	177.00	177.90	0.90	nil		0.09	0.02	0.01	0.013	0.015	0.003
							073	177.90	179.80	1.90	nil		0.09	0.02	0.01	0.017	0.011	0.002
							074	179.80	181.25	1.45	tr	1:4	0.17	0.05	0.03	0.083	0.040	0.004
							075	181.25	183.00	1.75	nil		0.07	0.02	0.02	0.027	0.015	0.003
							076	183.00	186.00	3.00	nil		0.09	0.01	0.01	0.021	0.011	0.002
			1.5	1.5			077	186.00	189.00	3.00	nil		0.04	0.01	0.01	0.016	0.007	0.002
			1.5	1.5			078	189.00	192.00	3.00	nil		0.03	0.00	0.01	0.019	0.007	0.002
			1.5	1.5			079	192.00	193.70	1.70	tr		0.13	0.03	0.02	0.044	0.017	0.003
			1.5	1.5			080	193.70	195.00	1.30	1.00		0.91	0.15	0.18	0.227	0.092	0.009
			1.5	1.5			081	195.00	197.00	2.00	tr		0.38	0.06	0.06	0.114	0.047	0.005
			1.5	1.5			082	197.00	198.40	1.40	0.50		0.87	0.12	0.15	0.237	0.092	0.007
			1.5	1.5			083	198.40	201.00	2.60	nil		0.21	0.04	0.02	0.052	0.024	0.003
			1.5	1.5			084	201.00	203.00	2.00	nil		0.13	0.02	0.04	0.081	0.016	0.002
			1.5	1.5			085	203.00	204.80	1.80	3.00		0.96	0.13	0.12	0.233	0.133	0.012

# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-127

LOGGED BY: W. Darch SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS							
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %	
176.00	204.80		<p><b>MELANOGABBRO BRECCIA (continued)</b></p> <p>disseminated and frequent coarse (up to 1.5cm) blebs of chalcopyrite+pyrrhotite+/-pyrite. Finely disseminated sulfides are rare in the coarse gabbro matrix.</p> <p>176.00m - 177.90m - Coarse grained gabbro with finely disseminated chalcopyrite+pyrrhotite.</p> <p>177.90m - 179.80m - Gabbronorite.</p> <p>179.80m - 181.25m - Fine grained melanogabbro with coarser grains (poorly developed varitextured). Trace sodalite and finely disseminated pyrrhotite+chalcopyrite with rare coarser grains (to 0.5cm).</p> <p>181.25m - 192.70m - Coarse gabbro.</p> <p>192.70 - 193.00m - Melanogabbro partially assimilated.</p> <p>193.00m - 193.70m - Coarse gabbro.</p> <p>193.70m - 198.40m - Melanogabbro, well mineralized. Sodalite (2-3%) is a bright blue.</p> <p>198.40m - 203.00m - Coarse gabbro.</p> <p>203.00m - 204.80m - Well mineralized melanogabbro. Trace to 1% sodalite. Bottom contact is sharp but irregular.</p>																
204.80	209.50	<p><b>GABBRO, COARSE GRAINED</b></p> <p>Mottled, pale grey and dark green.</p> <p>Coarse grained, equigranular, massive.</p> <p>45-55% Plag; 45-55% Cpx.</p> <p>Non-magnetic.</p> <p>Weak alteration with Cpx converted to actinolite.</p> <p>No visible sulfides.</p> <p>206.30m - 206.40m - Epidotized shear at 40° to core axis.</p> <p>Bottom contact is sharp at 45° to core axis.</p>	1.5	1.5			086	204.80	207.00	2.20	nil		0.06	0.01	0.01	0.027	0.011	0.002	
			1.5	1.5			087	207.00	209.50	2.50	nil		0.08	0.02	0.01	0.027	0.010	0.002	

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North American Palladium Ltd.  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-127

LOGGED BY: W. Darch SIGNATURE \_\_\_\_\_

METERAGE		DESCRIPTION	Alt <sup>n</sup> Bx Matrix				SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
209.50	210.70	<b>QUARTZ VEIN</b>  White Fine grained, aphanatic, massive. No visible sulfides. Bottom contact is irregular at approximately 5° to core axis.					088	209.50	210.70	1.20	nil		0.04	0.01	0.00	0.008	0.003	0.001
210.70	219.90	<b>MELANOGABBRO</b>  Dark grey to grey-green. Fine to medium grained, equigranular, massive. 25-35% Plag; 65-75% Cpx; trace sodalite. Non to locally weakly magnetic (pyrrhotite). Weak to moderate alteration, with Cpx converted to finely matted actinolite. Fine to medium grained chalcopyrite+pyrrhotite disseminated throughout.	1.5	2			089	210.70	213.00	2.30	1.50	1:4	0.01	0.00	0.00	0.001	0.079	0.007
			1.5	2			090	213.00	216.00	3.00	1.00	1:4	0.01	0.00	0.00	0.001	0.117	0.007
			1.5	2			091	216.00	219.00	3.00	1.00	1:4	0.01	0.00	0.00	0.001	0.124	0.007
			1.5	2			092	219.00	219.90	0.90	2.00	1:4	0.01	0.00	0.00	0.001	0.244	0.011
219.90	228.85	<b>DIABASE DIKE</b>  Dark grey to grey-green. Fine grained, equigranular, massive. Weakly magnetic. Trace chalcopyrite+pyrrhotite+/-pyrite in narrow gabbro sections. 222.60m - 224.60m - Fine grained gabbro (trace to 1% finely disseminated sulfides). 225.45m - 226.40m - Medium grained gabbro (trace sulfides). Contacts sharp at 40° to core axis.					093	219.90	222.60	2.70	nil		0.26	0.03	0.04	0.072	0.048	0.005
			1.5	2			094	222.60	224.60	2.00	0.50		0.78	0.12	0.11	0.157	0.055	0.004
							095	224.60	225.45	0.85	nil		0.08	0.01	0.02	0.035	0.014	0.003
			1.5	1.5			096	225.45	226.40	0.95	tr		0.41	0.07	0.10	0.121	0.039	0.003
							097	226.40	228.85	2.45	nil		0.71	0.10	0.05	0.021	0.022	0.003





# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-127

LOGGED BY: W. Darch SIGNATURE \_\_\_\_\_

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS							
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %	
286.40	297.35		<p><b>GABBRO, MEDIUM GRAINED</b></p> <p>Medium to dark grey to grey-green. Medium grained, equigranular, massive. 40-50% Plag; 50-60% Cpx. Non-magnetic. Alteration is weak to moderate, with Cpx converted to actinolite. Plag appears unaltered. Finely disseminated pyrite is concentrated over narrow interval. Subordinate chalcopyrite+pyrrhotite.</p> <p>291.70m - 292.80m - Melanogabbro. 295.00m - 295.20m - Diabase dike at 45° to core axis.</p>																
		1.5		2			124	286.40	288.00	1.60	tr		0.27	0.04	0.03	0.118	0.056	0.007	
		1.5		2			125	288.00	291.00	3.00	tr		0.56	0.07	0.10	0.178	0.095	0.007	
		1.5		2			126	291.00	294.00	3.00	2.00		1.01	0.12	0.19	0.311	0.240	0.012	
		1.5		2			127	294.00	296.00	2.00	0.25		1.00	0.12	0.22	0.220	0.239	0.011	
		1.5		2			128	296.00	297.35	1.35	tr		0.49	0.06	0.10	0.130	0.071	0.005	
297.35	305.60	<p><b>MAGNETITE NORITE</b></p> <p>Medium grey to brown-grey. Medium grained, equigranular, massive. 40-50% Plag; 30-40% Opx; 10-20% magnetite. Moderately to strongly magnetic. With magnetite ranging from disseminated mm size grains to net-textured interstitial matrix. Alteration is weak with very minor conversion of Opx to tremolite. No visible sulfides. Bottom contact is very sharp and well defined at 85° to core axis.</p>																	
			1.5	1.5			129	297.35	300.00	2.65	nil		0.13	0.02	0.01	0.011	0.021	0.004	
			1.5	1.5			130	300.00	303.00	3.00	nil		0.16	0.03	0.02	0.040	0.034	0.006	
			1.5	1.5			131	303.00	305.60	2.60	nil		0.19	0.06	0.03	-----	-----	-----	

# DIAMOND DRILL CORE LOGGING SHEETS

North American **Palladium Ltd.**  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-127

LOGGED BY: W. Darch SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
305.60	315.40		<b>GABBRO, MEDIUM GRAINED</b> Medium to dark grey to green-grey. Medium grained, equigranular, massive. 40-50% Plag; 50-60% Cpx; trace to 1% magnetite. Non to very weakly magnetic. Alteration is weak to moderate, with Cpx converted to actinolite. Minor epidote related to fractures. No visible sulfides. Bottom contact is gradational with a distinct but gradual increase in magnetite content.	1.5	2			132	305.60	307.00	1.40	nil		0.04	0.01	0.00	----	----
			1.5	2			133	307.00	309.00	2.00	nil		0.04	0.00	0.00	----	----	----
			1.5	2			134	309.00	312.00	3.00	nil		0.02	0.00	0.00	----	----	----
			1.5	2			135	312.00	315.40	3.40	nil		0.05	0.01	0.00	----	----	----
315.40	339.50	<b>MAGNETITE GABBRO</b> Medium to dark grey to grey-green. Medium grained, equigranular, massive. 40-45% Plag; 30-50% Cpx; 15-30% magnetite, trace sodalite Moderately to very strongly magnetic. Magnetite content increases down section. Alteration is weak to moderate, with Cpx converted to finely matted actinolite. Plag grain margins are weakly sausseritized. Sulfides (pyrite) are rare and are generally concentrated in narrow bands with sodalite adjacent to small mafic dikes. 324.43m - 324.74m - Mafic dike. 324.74m - 324.95m - 3-5% disseminated pyrite. 327.00m - 327.20m - Felsic dike, high quartz content. 327.85m - 328.00m - Mafic dike at 85° to core axis. 333.00m - 333.30m - Strongly epidotized shear at 45° to core axis. Bottom contact is very sharp at 85° to core axis, marked by abrupt change from 30% magnetite to 0% magnetite content.	1.5	2			136	315.40	318.00	2.60	nil		0.04	0.01	0.01	----	----	----
			1.5	2			137	318.00	321.00	3.00	nil		0.05	0.02	0.02	----	----	----
			1.5	2			138	321.00	324.00	3.00	nil		0.08	0.02	0.01	----	----	----
			1.5	2			139	324.00	327.00	3.00	tr		0.24	0.03	0.03	----	----	----
			1.5	2			140	327.00	330.00	3.00	nil		0.09	0.02	0.01	----	----	----
			1.5	2			141	330.00	333.00	3.00	nil		0.25	0.03	0.04	----	----	----
			1.5	2			142	333.00	336.00	3.00	nil		0.15	0.03	0.03	----	----	----
			1.5	2			143	336.00	338.00	2.00	nil		0.10	0.02	0.02	----	----	----
			1.5	2			144	338.00	339.50	1.50	nil		0.11	0.02	0.02	----	----	----





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PROPERTY LDI ZONE Roby HOLE # 00-127

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METERAGE		DESCRIPTION	Alt <sup>n</sup>		SAMPLES						ASSAYS					
FROM	TO		Plag	Pxr	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
			Com	Prop												
351.00	360.00	<b>MELANOGABBRO</b>  Dark green. Medium grained, equigranular, massive. 25-30% Plag; 70-75% Cpx. Very weakly magnetic. Weak to moderate alteration, with Cpx converted to finely matted actinolite. No visible sulfides.			149	351.00	354.00	3.00	nil		0.03	0.01	0.01	----	----	----
					150	354.00	357.00	3.00	nil		0.03	0.01	0.01	----	----	----
					151	357.00	360.00	3.00	nil		0.04	0.00	0.00	----	----	----
360.00	396.10	<b>GABBRO</b>  Medium green-grey to grey. Fine to medium grained, equigranular, massive. 45-55% Plag; 45-55% Cpx. Weak to non-magnetic. Trace magnetite finely disseminated at top of section decreasing downhole. Weak to moderate alteration, with Cpx to actinolite, and Plag has a distinct purple-brown tinge and is locally sausseritized. No visible sulfides. 361.00m - 361.25m - Moderate alteration peripheral to 1cm wide quartz-carbonate vein at 65° to core axis. 367.30m - 367.50m - Felsic dike. 386.45m - 386.70m - Felsic dike. Bottom contact marked by presence of magnetite only.			152	360.00	363.00	3.00	nil		0.06	0.01	0.01	----	----	----
					153	363.00	366.00	3.00	nil		0.07	0.01	0.01	----	----	----
					154	366.00	369.00	3.00	nil		0.07	0.01	0.01	----	----	----
					155	369.00	372.00	3.00	nil		0.07	0.01	0.00	----	----	----
					156	372.00	375.00	3.00	nil		0.07	0.01	0.01	----	----	----
					157	375.00	378.00	3.00	nil		0.07	0.01	0.01	----	----	----
					158	378.00	381.00	3.00	nil		0.10	0.01	0.01	----	----	----
					159	381.00	384.00	3.00	nil		0.13	0.02	0.01	----	----	----
					160	384.00	387.00	3.00	nil		0.15	0.03	0.01	----	----	----
					161	387.00	390.00	3.00	nil		0.04	0.00	0.01	----	----	----
					162	390.00	393.00	3.00	nil		0.02	0.00	0.01	----	----	----
					163	393.00	396.10	3.10	nil		0.02	0.00	0.01	----	----	----

# DIAMOND DRILL CORE LOGGING SHEETS

North American **Palladium** Ltd.  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-127

LOGGED BY: W. Darch SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>m</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
396.10	412.50	<b>MAGNETITE BEARING GABBRO</b>  Medium green-grey to grey. Fine grained, medium grained, massive. 45-55% Plag; 45-55% Cpx; 3-5% magnetite. Unit is continuation of above unit, but with disseminated magnetite. Moderately magnetic. Weakly to moderately altered, with Cpx to actinolite and Plag is weakly sausseritized. No visible sulfides.  Bottom contact is gradational.	1.5	2			164	396.10	399.00	2.90	nil		0.02	0.00	0.00	----	----	----
			1.5	2			165	399.00	402.00	3.00	nil		0.03	0.00	0.01	----	----	----
			1.5	2			166	402.00	405.00	3.00	nil		0.04	0.00	0.01	----	----	----
			1.5	2			167	405.00	408.00	3.00	nil		0.06	0.00	0.01	----	----	----
			1.5	2			168	408.00	411.00	3.00	nil		0.10	0.02	0.01	----	----	----
			1.5	2			169	411.00	412.50	1.50	nil		0.04	0.01	0.01	----	----	----
412.50	417.20	<b>MAGNETITE BEARING GABBRONORITE</b>  Medium brown-grey to green-grey. Medium grained, equigranular, massive. 45-50% Plag; 25-30% Opx; 20-25% Cpx; 2-5% magnetite. Moderately magnetic. Disseminated to poorly developed net-textured. Alteration is weak with Cpx to actinolite. No visible sulfides.	1.5	1.5			170	412.50	414.00	1.50	nil		0.10	0.04	0.01	----	----	----
			1.5	1.5			171	414.00	417.20	3.20	nil		0.06	0.04	0.01	----	----	----

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LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-127

LOGGED BY: W. Darch SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Coml	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
417.20	429.00		<p><b>MAGNETITE BEARING GABBRO</b></p> <p>Medium to dark grey-green.                      Fine to medium grained, equigranular, massive.                      40-45% Plag; 55-60% Cpx; 2-3% magnetite.                      Weakly to moderately magnetic.                      Moderate alteration with Cpx converted to finely matted actinolite. Plag has developed a purple-brown tinge.                      No visible sulfides.                      Bottom contact is gradational.</p>	2	2			172	417.20	420.00	2.80	nil		0.03	0.00	0.01	----	----
			2	2			173	420.00	423.00	3.00	nil		0.04	0.01	0.01	----	----	----
			2	2			174	423.00	426.00	3.00	nil		0.02	0.01	0.01	----	----	----
			2	2			175	426.00	429.00	3.00	nil		0.02	0.00	0.01	----	----	----
429.00	591.70	<p><b>EAST GABBRO, MEDIUM GRAINED</b></p> <p>Medium green-grey to mottled pale grey and dark green.                      Medium grained, equigranular, massive to very weakly foliated (50° to core axis).                      45-55% Plag; 45-55% Cpx.                      Weakly magnetic at top of section, but decreasing rapidly down hole to non-magnetic.                      Alteration is weak to moderate, with Cpx to finely matted actinolite. Plag is very weakly sausseritized to a pale green, or is pale purple-brown.                      Below 444.00m, trace sparsely disseminated pyrite.</p> <p>485.80m - 485.85m - Felsic dike, 3cm sinistral offset along cross cutting fracture.</p> <p>493.15m - 193.18m - Hematite fractures along margins of narrow felsic dikelet.</p> <p>495.80m -- 496.20m - Mafic dike, upper contact at 40° to core axis, bottom at 80° to core axis.</p> <p>497.60m - 498.70m - Intermediate porphyritic dike, strongly serpentized</p>	1.5	2			176	429.00	432.00	3.00	nil		0.03	0.01	0.01	----	----	----
			1.5	2			177	432.00	435.00	3.00	nil		0.07	0.02	0.01	----	----	----
			1.5	2			178	435.00	438.00	3.00	nil		0.03	0.01	0.01	----	----	----
			1.5	2			179	438.00	441.00	3.00	nil		0.07	0.00	0.00	----	----	----
			1.5	2			180	441.00	444.00	3.00	nil		0.22	0.03	0.00	----	----	----
			1.5	2			181	444.00	447.00	3.00	tr		0.17	0.02	0.01	----	----	----
			1.5	2			182	447.00	450.00	3.00	tr		0.03	0.01	0.00	----	----	----
			1.5	2			183	450.00	453.00	3.00	tr		0.06	0.02	0.02	----	----	----
			1.5	2			184	453.00	456.00	3.00	nil		0.07	0.02	0.01	----	----	----
			1.5	2			185	456.00	459.00	3.00	tr		0.13	0.03	0.01	----	----	----
			1.5	2			186	459.00	462.00	3.00	tr		0.09	0.01	0.00	----	----	----
			1.5	2			187	462.00	465.00	3.00	tr		0.07	0.01	0.00	----	----	----
			1.5	2			188	465.00	468.00	3.00	tr		0.09	0.01	0.00	----	----	----
			1.5	2			189	468.00	471.00	3.00	tr		0.05	0.02	0.00	----	----	----
			1.5	2			190	471.00	474.00	3.00	tr		0.01	0.01	0.00	----	----	----
			1.5	2			191	474.00	477.00	3.00	tr		0.01	0.01	0.00	----	----	----
			1.5	2			192	477.00	480.00	3.00	tr		0.01	0.00	0.00	----	----	----
			1.5	2			193	480.00	483.00	3.00	tr		0.01	0.00	0.00	----	----	----
			1.5	2			194	483.00	486.00	3.00	tr		0.02	0.01	0.00	----	----	----

## DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-127

LOGGED BY: W. Darch

SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS							
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	NI %	Co %	
429.00	591.70		<b>EAST GABBRO, MEDIUM GRAINED (continued)</b>  and hematitic. Hematite content increases to red clay gouge (at 35° to core axis) along the bottom contact. Upper contact at 80° to core axis. 498.50m - 499.60m - FAULT Zone - Broken, rubbly core with minor clay seams, hematitic. 498.70m - 499.30m - Massive quartz vein. 509.60m - 510.00m - Broken rubbly core, minor fault of fracture zone. 520.15m - 520.30m - Felsic dike at 45° to core axis. 523.90m - 524.25m - Felsic dike at 80° to core axis. 542.10m - 545.45m - Diabase dike at 80° to core axis, very weakly magnetic 547.20m - 547.95m - Melanogabbro/pyroxenite fragment. Contacts at 50° to core axis. Trace finely disseminated pyrite. 552.40m - 552.60m - Felsic dike with biotite clots or aggregates. 573.95m - 574.00m - Epidotized shear at 45° to core axis. 574.95m - 575.00m - Epidotized shear at 35° to core axis. 576.75m - 576.80m - Mafic dikelet at 50° to core axis. 589.00m - 589.40m - Leucogabbro. Bottom contact is sharp at 90° to core axis.																
			1.5	2			195	486.00	489.00	3.00	nil		0.01	0.01	0.00	-----	-----	-----	
			1.5	2			196	489.00	492.00	3.00	nil		0.02	0.01	0.00	-----	-----	-----	
			1.5	2			197	492.00	495.00	3.00	nil		0.01	0.01	0.00	-----	-----	-----	
			2	2.5			198	495.00	497.60	2.60	nil		0.01	0.01	0.00	-----	-----	-----	
			2.5	3			199	497.60	498.70	1.10	nil		0.00	0.01	0.00	-----	-----	-----	
							200	498.70	499.60	0.90	nil		0.00	0.01	0.00	-----	-----	-----	
			2	2			201	499.60	501.00	1.40	nil		0.01	0.00	0.00	-----	-----	-----	
			2	2			202	501.00	504.00	3.00	nil		0.01	0.01	0.00	-----	-----	-----	
			2	2			203	504.00	507.00	3.00	nil		0.02	0.01	0.00	-----	-----	-----	
			2	2			204	507.00	510.00	3.00	nil		0.02	0.01	0.00	-----	-----	-----	
			2	2			205	510.00	513.00	3.00	tr		0.02	0.01	0.01	-----	-----	-----	
			1.5	2			206	513.00	516.00	3.00	tr		0.02	0.00	0.00	-----	-----	-----	
			1.5	2			207	516.00	519.00	3.00	tr		0.01	0.00	0.00	-----	-----	-----	
			1.5	2			208	519.00	522.00	3.00	tr		0.02	0.01	0.00	-----	-----	-----	
			1.5	2			209	522.00	525.00	3.00	nil		0.02	0.01	0.00	-----	-----	-----	
			1.5	2			210	525.00	528.00	3.00	nil		0.02	0.01	0.00	-----	-----	-----	
			1.5	2			211	528.00	531.00	3.00	nil		0.02	0.01	0.00	0.006	0.006	0.003	
			1.5	2			212	531.00	534.00	3.00	nil		0.02	0.01	0.00	0.005	0.005	0.002	
			1.5	2			213	534.00	537.00	3.00	nil		0.02	0.01	0.00	0.004	0.004	0.002	
			1.5	2			214	537.00	540.00	3.00	nil		0.02	0.01	0.00	0.004	0.005	0.002	
			1.5	2			215	540.00	542.10	2.10	nil		0.02	0.01	0.00	0.007	0.004	0.001	
							216	542.10	544.00	1.90	nil		0.00	0.01	0.00	0.007	0.004	0.001	
							217	544.00	545.45	1.45	nil		0.00	0.01	0.00	0.008	0.006	0.002	
			1.5	2			218	545.45	547.95	2.50	nil		0.01	0.01	0.00	0.008	0.005	0.002	
			1.5	1.5			219	547.95	550.00	2.05	nil		0.02	0.01	0.00	0.005	0.005	0.002	
			1.5	1.5			220	550.00	552.00	2.00	nil		0.01	0.02	0.00	0.006	0.005	0.002	
			1.5	1.5			221	552.00	555.00	3.00	nil		0.01	0.01	0.00	0.005	0.005	0.002	
			1.5	1.5			222	555.00	558.00	3.00	nil		0.02	0.01	0.00	0.006	0.005	0.002	
			1.5	1.5			223	558.00	561.00	3.00	nil		0.01	0.01	0.00	0.006	0.005	0.002	
			1.5	1.5			224	561.00	564.00	3.00	nil		0.012	0.010	0.000	0.006	0.005	0.002	

# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-127

LOGGED BY: W. Darch SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
429.00	591.70		EAST GABBRO, MEDIUM GRAINED (continued)	1.5	1.5			225	564.00	567.00	3.00	nil		0.01	0.01	0.00	0.007	0.005
		1.5		1.5			226	567.00	570.00	3.00	nil		0.01	0.01	0.00	0.005	0.005	0.002
		1.5		1.5			227	570.00	573.00	3.00	nil		0.01	0.01	0.00	0.007	0.005	0.002
		1.5		1.5			228	573.00	576.00	3.00	nil		0.01	0.00	0.00	0.008	0.006	0.002
		1.5		1.5			229	576.00	579.00	3.00	nil		0.04	0.01	0.00	0.011	0.008	0.002
		1.5		1.5			230	579.00	582.00	3.00	nil		0.01	0.01	0.00	0.006	0.005	0.002
		1.5		1.5			231	582.00	585.00	3.00	tr		0.02	0.01	0.00	0.008	0.005	0.001
		1.5		1.5			232	585.00	588.00	3.00	nil		0.03	0.02	0.00	0.008	0.005	0.001
		1.5		1.5			233	588.00	591.00	3.00	nil		0.51	0.05	0.03	0.037	0.016	0.002
		1.5		1.5			234	591.00	591.70	0.70	nil		0.10	0.02	0.00	0.020	0.008	0.001
591.70	599.00	PYROXENITE  Medium to dark green. Medium grained, equigranular, massive. 5% Plag; 95% Cpx. Non-magnetic. Moderate alteration with Cpx converted to finely matted actinolite. Grain boundaries well defined. Finely disseminated pyrite (1-5%) 598.50m - 599.00m - Diabase dike, weakly magnetic (at 75° to core axis)	1.5	2			235	591.70	594.00	2.30	2.00		0.50	0.10	0.09	0.188	0.063	0.007
			1.5	2			236	594.00	597.00	3.00	5.00		0.51	0.09	0.11	0.219	0.079	0.008
			1.5	2			237	597.00	598.50	1.50	1.00		0.41	0.10	0.13	0.174	0.069	0.005
							238	598.50	599.00	0.50	nil		0.05	0.01	0.01	0.012	0.004	0.002

# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-127

LOGGED BY: W. Darch SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
599.00	603.60	<b>MELANOGABBRO</b>  Medium to dark green. Medium grained, equigranular, massive. 15-20% Plag; 80-85% Cpx. Non-magnetic. Moderate to strong alteration, with Cpx converted to actinolite. Plag is moderately sausseritized. Grain boundaries are less clearly defined and appear rounded. Trace finely disseminated pyrite. 600.40m - 600.60m - Pyroxenite with 5% pyrite as coarse blebs. 602.70m - 602.80m - White quartz vein. Bottom contact sharp at 45° to core axis.					239	599.00	600.00	1.00	tr		1.40	0.12	0.26	0.021	0.037	0.003
							240	600.00	603.00	3.00	0.50		9.67	0.78	0.27	0.081	0.217	0.008
							241	603.00	603.60	0.60	tr		3.50	0.18	0.05	0.023	0.066	0.003
603.60	634.60	<b>DIABASE DIKE</b>  Dark grey to grey-green to black. Fine grained, equigranular, massive to locally Plag porphyritic. Weakly to moderately magnetic. Altered below 625.60m with pyrite lined fractures common. 611.60m - 612.00m - Strongly epidotized healed breccia. 615.90m - 621.35m - Coarse, variably hematitic Plag phenocrysts (to 1cm). 624.70m - 624.85m - Gabbro. 625.10m - 625.20m - Gabbro. 627.90m - 627.95m - Coarse pyrite aggregate (4cm) in what appears to be a partially assimilated gabbro fragment. 629.00m - 629.50m - Melanogabbro/pyroxenite fragment. 629.60m - 631.35m - Partially assimilated and weakly hematitic gabbro. 632.70m - 633.00m - Partially assimilated and moderately hematitic gabbro.					242	603.60	606.00	2.40	nil		0.05	0.01	0.02	0.019	0.003	0.003
							243	606.00	609.00	3.00	nil		0.08	0.01	0.01	0.018	0.007	0.002
							244	609.00	612.00	3.00	nil		0.21	0.02	0.01	0.023	0.012	0.003
							245	612.00	615.00	3.00	nil		0.01	0.00	0.00	0.005	0.004	0.003
							246	615.00	615.90	0.90	nil		0.02	0.01	0.00	0.007	0.002	0.003
							247	615.90	618.00	2.10	nil		0.00	0.00	0.00	0.004	0.003	0.002
							248	618.00	621.00	3.00	nil		0.00	0.00	0.00	0.005	0.002	0.003
							249	621.00	624.00	3.00	nil		0.01	0.01	0.00	0.006	0.003	0.003
							250	624.00	625.70	1.70	nil		1.07	0.12	0.01	0.015	0.035	0.004
							251	625.70	627.60	1.90	tr		0.38	0.02	0.01	0.044	0.015	0.004
							252	627.60	629.60	2.00	1.00		0.17	0.01	0.00	0.034	0.011	0.004
							253	629.60	631.30	1.70	nil		2.36	0.15	0.01	0.023	0.044	0.004
						254	631.30	633.00	1.70	nil		0.67	0.06	0.00	0.005	0.022	0.003	
						255	633.00	634.60	1.60	0.50		0.22	0.02	0.01	0.025	0.010	0.005	

# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-127

LOGGED BY: W. Darch SIGNATURE \_\_\_\_\_

METERAGE		DESCRIPTION	Alt <sup>n</sup> Bx Matrix				SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
603.60	634.60	<b>DIABASE DIKE (continued)</b>  633.00m - 63.10m - Felsic dike, hematitic. 633.10m - 634.60m - Very finely disseminated pyrite.																
634.60	636.10	<b>PYROXENITE</b>  Dark green. Medium grained, equigranular, massive to weakly sheared. 5% Plag; 95% Cpx. Non-magnetic. Moderate to strong alteration, with Cpx to actinolite, serpentine and talc. No visible sulfides.	2.5	3			256	634.60	636.10	1.50	nil		2.16	0.15	0.02	0.014	0.039	0.004
636.10	639.60	<b>FELSIC DIKE</b>  Pink. Fine grained, massive with frequent small gabbro and pyroxenite fragments. Non-magnetic. Pervasive weak to moderate hematite. Trace chalcopyrite+bornite. At 636.50m - 5mm bleb of bornite.	1.5				257	636.10	638.00	1.90	tr		6.63	0.41	0.06	0.136	0.113	0.004
			1.5				258	638.00	639.60	1.60	tr		3.80	0.24	0.04	0.063	0.077	0.004



# DIAMOND DRILL CORE LOGGING SHEETS

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METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
639.60	644.70	<b>PYROXENITE</b>  Dark green with pink-orange patches. Medium grained, equigranular, weakly sheared. 5-10% Plag; 90-95% Cpx. Non-magnetic. Alteration is moderate to locally strong with Cpx converted to actinolite, which locally has been altered further to serpentine and minor talc. No visible sulfides. Bottom contact sharp at 45° to core axis.	2	3			259	639.60	642.00	2.40	nil		3.68	0.24	0.03	0.054	0.069	0.004
			2	3			260	642.00	644.70	2.70	nil		2.79	0.18	0.02	0.024	0.046	0.004
644.70	680.30	<b>GABBRO (EAST?)</b>  Mottled pale grey to pink and dark green. Medium to coarse grained, equigranular, massive. 45-55% Plag; 45-55% Cpx. Non-magnetic. Alteration is weak to locally moderate, with Cpx converted to actinolite. Plag is very weakly sausseritized, and variably hematitic above 687.00m. No visible sulfides. 655.50 - 655.60 - Felsic dike at 80° to core axis, hematite. 670.50m - 671.50m - 1-2cm wide quartz lined fracture trending irregularly at 5° to core axis, with strongly epidotized margins and a hematitic envelope. 678.30m - 680.30m - Moderately hematitic. Bottom contact sharp at 80° to core axis.	1.5	1.5			261	644.70	646.00	1.30			0.20	0.02	0.00	0.003	0.012	0.003
			1.5	1.5			262	646.00	648.00	2.00			0.03	0.01	0.00	0.002	0.008	0.003
			1.5	1.5			263	648.00	651.00	3.00			0.03	0.01	0.00	0.007	0.007	0.003
			1.5	1.5			264	651.00	654.00	3.00			0.02	0.02	0.00	0.007	0.006	0.002
			1.5	1.5			265	654.00	657.00	3.00			0.02	0.00	0.00	0.006	0.007	0.002
			1.5	1.5			266	657.00	660.00	3.00			0.03	0.01	0.00	0.010	0.006	0.002
			1.5	1.5			267	660.00	663.00	3.00			0.03	0.01	0.00	0.007	0.006	0.002
			1.5	1.5			268	663.00	666.00	3.00			0.06	0.02	0.00	0.007	0.006	0.002
			2.5	2.5			269	666.00	669.00	3.00			0.03	0.01	0.00	0.009	0.009	0.002
			1.5	1.5			270	669.00	672.00	3.00			0.03	0.01	0.00	0.003	0.006	0.002
			1.5	1.5			271	672.00	675.00	3.00			0.02	0.01	0.00	0.010	0.007	0.002
			1.5	1.5			272	675.00	678.00	3.00			0.02	0.00	0.00	0.006	0.006	0.002
			1.5	1.5			273	678.00	680.30	2.30			0.02	0.00	0.00	0.007	0.005	0.002

## DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-127

LOGGED BY: W. Darch

SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup> Bx Matrix				SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
680.30	684.50		<b>MAFIC DIKE</b>  Dark grey to red-grey to black. Fine grained, equigranular, massive. Non-magnetic. Moderately hematitic along and adjacent to fractures.  No visible sulfides. Bottom contact broken, rubbly core.					274	680.30	683.00	2.70	nil		0.01	0.01	0.00	0.002	0.008
							275	683.00	684.50	1.50	nil		0.00	0.00	0.00	0.001	0.014	0.003
684.50	780.80	<b>GABBRO (EAST GABBRO?)</b>  Mottled pale grey and dark green. Medium to coarse grained, equigranular, massive. 45-55% Plag; 45-55% Opx. Non-magnetic. Very weakly altered, with Cpx predominantly to actinolite. No visible sulfides. 698.80m - 690.10m - Mafic dike at 40° to core axis. 704.90m - 705.15m - Mafic dike at 55° to core axis. 739.80m - 739.95m - Weakly sheared at 60° to core axis. 777.60m - 777.90m - Mafic dike at 80° to core axis. 777.90m - 780.80m - Leucogabbro with epidote common along fractures. Bottom contact is sharp at 85° to core axis.	1	1			276	684.50	687.00	2.50	nil		0.02	0.01	0.00	----	----	----
			1	1			277	687.00	690.00	3.00	nil		0.02	0.00	0.00	----	----	----
			1	1			278	690.00	693.00	3.00	nil		0.03	0.01	0.00	----	----	----
			1	1			279	693.00	696.00	3.00	nil		0.02	0.00	0.00	----	----	----
			1	1			280	696.00	699.00	3.00	nil		0.03	0.01	0.00	----	----	----
			1	1			281	699.00	702.00	3.00	nil		0.02	0.00	0.00	----	----	----
			1	1			282	702.00	705.00	3.00	nil		0.02	0.01	0.00	----	----	----
			1	1			283	705.00	708.00	3.00	nil		0.02	0.00	0.00	----	----	----
			1	1			284	708.00	711.00	3.00	nil		0.02	0.00	0.00	----	----	----
			1	1			285	711.00	714.00	3.00	nil		0.01	0.01	0.00	----	----	----
			1	1			286	714.00	717.00	3.00	nil		0.02	0.00	0.00	----	----	----
			1	1			287	717.00	720.00	3.00	nil		0.02	0.00	0.00	----	----	----
			1	1			288	720.00	723.00	3.00	nil		0.02	0.01	0.00	----	----	----
			1	1			289	723.00	726.00	3.00	nil		0.02	0.01	0.00	----	----	----
			1	1			290	726.00	729.00	3.00	nil		0.02	0.01	0.00	----	----	----
			1	1			291	729.00	732.00	3.00	nil		0.03	0.01	0.00	----	----	----
			1	1			292	732.00	735.00	3.00	nil		0.03	0.01	0.00	----	----	----
			1	1			293	735.00	738.00	3.00	nil		0.03	0.01	0.00	----	----	----
			1	1			294	738.00	741.00	3.00	nil		0.02	0.00	0.00	----	----	----



# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-127

LOGGED BY: W. Darch SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>				SAMPLES					ASSAYS							
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %	
788.35	831.00		<p><b>HETEROLITHIC GABBRO BRECCIA</b></p> <p>Mottled pale grey and dark green, to medium green-grey with dark green intervals. Medium to coarse grained gabbro, with pyroxenite and melanogabbro fragments. 40-50% Plag; 50-60% Cpx. Non-magnetic. Alteration of the gabbro is weak to moderate, with Cpx to actinolite, and only very rare weak sausseritization of the Plag. The pyroxenite sections are strongly altered to actinolite, and subsequently to serpentine and talc, giving these sections a sheared appearance. Sulfides (pyrite+chalcopyrite+/-pyrrhotite) are present in most lithology types, but tend to be very irregularly distributed with only sporadic coarser grains.</p> <p>788.35m - 788.80m - Coarse gabbro. 788.80m - 793.60m - Melanogabbro to locally pyroxenite, with very narrow coarse gabbro intervals. 793.60m - 794.40m -- Feldspar porphyritic felsic dike at 40° to core axis. 794.40m - 796.00m - Melanogabbro. 796.00m - 798.20m - Coarse to locally very coarse grained gabbro. 798.20m - 802.00m - Predominantly melanogabbro. 802.00m - 804.00m - Coarse grained gabbro. 804.00m - 804.70m - Pyroxenite. 804.70m - 805.50m - Coarse grained gabbro. 805.50m - 810.65m - Predominantly pyroxenite with narrow intervals of coarse grained gabbro. Coarse grained pyrite at 806.60m. 810.65m - 813.70m - Coarse grained gabbro. 813.70m - 814.20m - Pyroxenite/melanogabbro</p>																
	EOH						313	788.30	790.00	1.70	tr		1.07	0.11	0.08	0.040	0.044	0.003	
							314	790.00	792.00	2.00	tr		0.55	0.11	0.10	0.069	0.060	0.003	
							315	792.00	793.60	1.60	0.25		0.26	0.07	0.09	0.066	0.058	0.003	
							316	793.60	794.40	0.80	nil		0.03	0.00	0.01	0.005	0.004	0.000	
							317	794.40	796.00	1.60	tr		0.47	0.06	0.04	0.014	0.020	0.002	
							318	796.00	798.20	2.20	tr		1.48	0.18	0.04	0.011	0.032	0.002	
							319	798.20	801.00	2.80	0.25		1.04	0.10	0.15	0.047	0.035	0.004	
							320	801.00	802.00	1.00	tr		0.36	0.05	0.01	0.005	0.025	0.003	
							321	802.00	804.00	2.00	nil		0.55	0.07	0.01	0.008	0.021	0.002	
							322	804.00	805.60	1.60	nil		0.81	0.09	0.04	0.048	0.061	0.004	
							323	805.60	808.60	3.00	tr		1.55	0.18	0.05	0.004	0.034	0.004	
							324	808.60	810.60	2.00	tr		1.70	0.16	0.12	0.129	0.150	0.005	
							325	810.60	813.70	3.10	nil		0.88	0.09	0.02	0.012	0.023	0.002	
							326	813.70	816.00	2.30	tr		0.87	0.10	0.04	0.033	0.048	0.003	
							327	816.00	818.80	2.80	tr		1.15	0.12	0.02	0.031	0.058	0.003	
							328	818.80	819.90	1.10	tr		0.55	0.25	0.06	0.112	0.113	0.005	
							329	819.90	822.00	2.10	tr		0.94	0.09	0.02	0.025	0.039	0.003	
							330	822.00	825.00	3.00	nil		0.93	0.11	0.01	0.013	0.018	0.002	
							331	825.00	828.00	3.00	nil		2.82	0.17	0.05	0.046	0.042	0.003	
						332	828.00	831.00	3.00	nil		1.06	0.08	0.01	0.010	0.035	0.003		



## DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-127

LOGGED BY: G. Katchen

SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup> Bx Matrix				SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
831.00	879.40	<b>HETEROLITHIC GABBRO BRECCIA</b>	3	3			333	831.00	834.00	3.00	0.50	2:1	8.00	0.55	0.91	0.169	0.187	0.006
		832.30m - 832.95m: Felsic Dike ~35° to core axis (no orientation possible) Brecciated intermediate dike within felsic dike. Moderate epidote.	3	3	Mgab	10	334	834.00	837.00	3.00	1.00	1:2	2.50	0.13	0.22	0.040	0.075	0.005
			3	3			335	837.00	840.00	3.00			0.86	0.08	0.08	0.011	0.049	0.004
			3	3	Mgab	15	336	840.00	843.00	3.00	0.75	1:1	0.83	0.05	0.05	0.030	0.051	0.004
			3	3			337	843.00	846.00	3.00	tr	2:1	1.51	0.10	0.03	0.008	0.064	0.005
			2	3	Mgab	20	338	846.00	849.00	3.00	0.50	1:2	1.42	0.21	0.04	0.019	0.060	0.005
		836.20m - 836.60m: Granite dike. Striking ~220°, dipping subvertical, vertical in a northwards fashion nil sulphide. Minor biotite and chlorite.	3	3	Mgab	20	339	849.00	852.00	3.00	0.75	2:1	1.22	0.15	0.04	0.009	0.042	0.004
			3	3	Mgab	35	340	852.00	855.00	3.00	0.25	2:1	3.10	0.20	0.14	0.034	0.060	0.005
			3	3	Mgab	40	341	855.00	858.00	3.00	2.00	2:1	2.90	0.14	0.13	0.080	0.063	0.005
			3	3	Mgab	30	342	858.00	861.00	3.00	tr		1.56	0.14	0.02	0.005	0.046	0.004
			2	3			343	861.00	864.00	3.00	tr	1:2	1.55	0.13	0.02	0.006	0.051	0.004
		862.50m - 862.85m: Healed shear zone Silicified Striking ~270°, dipping vertically Moderate chlorite quartz veining	2	3			344	864.00	867.00	3.00	tr		1.42	0.10	0.02	0.004	0.040	0.004
			3	3			345	867.00	870.00	3.00	0.75	2:1	4.20	0.22	0.07	0.027	0.088	0.004
			3	3	Mgab	5	346	870.00	873.00	3.00	0.25		2.50	0.16	0.08	0.035	0.061	0.004
			3	3	Mgab	20	347	873.00	876.00	3.00	0.25		1.00	0.12	0.06	0.028	0.045	0.004
			3	3	Mgab	15	348	876.00	877.50	1.50	0.50	1:1	0.48	0.07	0.15	0.032	0.070	0.005
		878.80m - 879.40m: Late Mafic Dike Striking ~260° dipping subvertically north Gabbroic Xenoliths Minor magnetite Trace pyrite	3	3			349	877.50	879.40	1.90	0.25	1:3	0.85	0.10	0.15	0.056	0.071	0.005
							341B	BLANK SAMPLE										
879.40	915.75	<b>VARITEXTURED GABBRO</b>	2	3			350	879.40	882.00	2.60	0.75	1:1	0.85	0.10	0.12	0.070	0.079	0.005
		Greenish-grey, medium to coarse grained. Plag 35-55% Cpx 45-65% Opx Nil, none observed Unit is masive, moderate to relatively hard, weakly to moderately fractured. Gradational non distinct contact into a varitextured gabbro norite.	2	3			351	882.00	885.00	3.00	0.75	2:1	1.45	0.13	0.08	0.075	0.092	0.005
			3	3			352	885.00	888.00	3.00	0.75	2:1	0.71	0.11	0.12	0.053	0.070	0.005
			2	3			353	888.00	891.00	3.00	0.50	1:1	0.53	0.07	0.06	0.041	0.059	0.005
			3	3			354	891.00	894.00	3.00	0.50	1:1	0.77	0.10	0.10	0.042	0.063	0.005
			3	3			355	894.00	896.80	2.80	2.00	1:1	2.50	0.24	0.20	0.101	0.109	0.006
							356	896.80	897.75	0.95			0.12	0.01	0.01	0.023	0.008	0.003
			3	3			357	897.75	899.45	1.70	0.25	1:3	0.84	0.13	0.08	0.024	0.063	0.005
							358	899.45	901.25	1.80	1.00		0.26	0.01	0.85	0.221	0.013	0.003



**DIAMOND DRILL CORE LOGGING SHEETS**

North American Palladium Ltd.  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-127

LOGGED BY: G. Katchen SIGNATURE \_\_\_\_\_

METERAGE		DESCRIPTION	Alt <sup>n</sup>				Bx Matrix					SAMPLES							ASSAYS					
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %						
879.40	915.75	<b>VARITEXTURED GABBRO (continued)</b>  906.70m - 907.70m: Shear zone, healed with plag and epidote. striking ~45°, dipping sub-vertically westwards. 913.35m - 913.80m: Healed shear zone Striking ~225°, dipping sub-vertically northwards Distinctly foliated.																						
915.75	943.75	<b>VARITEXTURED GABBRONORITE</b>  Brownish grey to greyish green, medium to coarse grained. Plag 35-50% Cpx 20-60% Opx 5-30% Unit is massive, relatively quite hard, weakly fractured at various angles to core axis, unit grades locally into varitexturegabbro and back into gabbronorite composition. Alteration is moderate to strong with Plag altered to a dark cloudy grey/brownish hue, anhedral crystallization, locally well saussuritized. Cpx altered to actinolite exhibiting minor to moderate talc alteration along crystal boundaries. Opx is locally altered to anthophyllite/tremolite and difficult to distinguish due to alteration: Nil - 1.50% Chalcopyrite: pyrrhotite (1:1 ratio) as irregular intergrown crystal blebs. Trace pyrite. 920.90m - 922.65m: Late Mafic Dike (Diabase) Striking ~260° dipping subvertically northwards. Fine to medium grained. Moderate to strong magnetite. Sharp lower contact into gabbronorite.	2	2			366	915.75	918.00	2.25	0.75	1:3	0.47	0.07	0.05	0.030	0.052	0.006						
			2	3			367	918.00	920.90	2.90	tr		0.46	0.07	0.02	0.013	0.060	0.007						
							368	920.90	922.65	1.75	tr		0.02	0.00	0.00	0.011	0.004	0.003						
			3	3			369	922.65	924.00	1.35			0.34	0.07	0.03	0.013	0.061	0.007						
			3	3			370	924.00	927.00	3.00	0.25	2:1	0.67	0.10	0.12	0.051	0.079	0.008						
			2	2			371	927.00	930.00	3.00	1.00	2:1	1.18	0.15	0.14	0.080	0.090	0.008						
			2	3			372	930.00	933.00	3.00	1.50	1:1	1.05	0.12	0.17	0.084	0.090	0.007						
			3	3			373	933.00	936.00	3.00	1.50	1:1	1.99	0.19	0.33	0.126	0.124	0.006						
			3	3			374	936.00	939.00	3.00	0.50	1:1	1.08	0.14	0.15	0.046	0.077	0.007						
			3	3			375	939.00	942.00	3.00	0.75	1:1	1.06	0.13	0.14	0.061	0.079	0.007						
			3	3			376	942.00	943.75	1.75	1.00	1:1	1.29	0.12	0.09	0.046	0.080	0.005						





# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-127

LOGGED BY: G. Katchen SIGNATURE \_\_\_\_\_

METERAGE		DESCRIPTION	Alt <sup>n</sup>				Bx Matrix					SAMPLES						ASSAYS					
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %					
954.55	977.65		<b>VARITEXTURED GABBRONORITE (continued)</b>  exhibiting minor talc alteration along crystal boundaries. Opx is semi altered, altered to anthophyllite/tremolite. Nil - 1.75% Chalcopyrite:pyrrhotite (1:1 ratio) as intergrown irregular crystal blebs.  959.55m - 959.90m: Healed shear zone ~40° to core axis (no core orientation) foliation distinct  971.30m - 972.80m: Late Mafic Dike ~35° to core axis. No core orientation Moderately magnetic Dark-grey; fine grained Nil pyrite.																				
977.65	984.00	<b>DIABASE DIKE</b>  (no core orientations) Dark grey to black Very fine grained to fine grained Upper contact ~30° to core axis. Lower contact ~45° to core axis. Local minor Plag veining, minor magnetite, trace pyrite. Shear Zone/minor fault zone, healed.  978.75m - 979.15m: ~25° to core axis, healed with epidote and weakly hematized plag, diabase fragments cemented with the shear zone.					391	977.65	979.50	1.85	tr		0.01	0.01	0.02	0.013	0.008	0.004					
							392	979.50	981.00	1.50	tr		0.00	0.00	0.00	0.007	0.006	0.004					
							393	981.00	984.00	3.00	tr		0.01	0.00	0.00	0.007	0.007	0.004					



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163



To: LAC DES ILES MINES LTD. EXPLORATION  
 NORTH AMERICAN PALLADIUM  
 P.O. BOX 10547  
 THUNDER BAY, ON  
 P7B 6T9

Page Number : 1  
 Total Pages : 1  
 Certificate Date : 08-DEC-2000  
 Invoice No. : 10034951  
 P.O. Number :  
 Account : MZI

Project : 00-127  
 Comments : ATTN: MOE LAVIGNE

## CERTIFICATE OF ANALYSIS

A0034951

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-127-001	1388 276	16	30	162	-----	-----	-----	-----	-----	-----
00-127-002	1388 276	32	45	224	-----	-----	-----	-----	-----	-----
00-127-003	1388 276	18	35	234	-----	-----	-----	-----	-----	-----
00-127-004	1388 276	10	35	150	-----	-----	-----	-----	-----	-----
00-127-005	1388 276	16	15	82	-----	-----	-----	-----	-----	-----
00-127-006	1388 276	20	35	166	-----	-----	-----	-----	-----	-----
00-127-007	1388 276	12	20	94	-----	-----	-----	-----	-----	-----
00-127-008	1388 276	16	30	104	-----	-----	-----	-----	-----	-----
00-127-009	1388 276	10	5	78	-----	-----	-----	-----	-----	-----
00-127-010	1388 276	12	10	78	-----	-----	-----	-----	-----	-----
00-127-011	1388 276	8	20	90	-----	-----	-----	-----	-----	-----
00-127-012	1388 276	6	< 5	64	-----	-----	-----	-----	-----	-----
00-127-013	1388 276	12	15	86	-----	-----	-----	-----	-----	-----
00-127-014	1388 276	12	10	58	-----	-----	-----	-----	-----	-----
00-127-015	1388 276	12	< 5	66	-----	-----	-----	-----	-----	-----
00-127-016	1388 276	18	< 5	98	-----	-----	-----	-----	-----	-----
00-127-017	1388 276	22	10	144	-----	-----	-----	-----	-----	-----
00-127-018	1388 276	10	10	44	-----	-----	-----	-----	-----	-----
00-127-019	1388 276	200	205	2590	-----	-----	-----	-----	-----	-----
00-127-020	1388 276	98	105	990	-----	-----	-----	-----	-----	-----
00-127-021	1388 276	8	30	114	-----	-----	-----	-----	-----	-----
00-127-022	1388 276	6	20	68	-----	-----	-----	-----	-----	-----
00-127-023	1388 276	10	50	180	-----	-----	-----	-----	-----	-----
00-127-024	1388 276	34	60	460	-----	-----	-----	-----	-----	-----
127-STA-002	214 238	252	310	3080	1255	0.1255	1140	0.1140	45	0.0045

CERTIFICATION: \_\_\_\_\_

*[Handwritten signature]*

421000

BUNDAK CLEGG

10/14/02 MON 08:10 FAX 604 985 1071

421058



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.-EXPLORATION  
 NORTH AMERICAN PALLADIUM  
 P.O. BOX 10547  
 THUNDER BAY, ON  
 P7B 6T9

Page Number : 1  
 Total Pages : 1  
 Certificate Date: 11-DEC-2000  
 Invoice No. : 10035024  
 P.O. Number :  
 Account : MZI

Project : 00-127  
 Comments : ATTN: MOE LAVIGNE

**CERTIFICATE OF ANALYSIS** **A0035024**

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-127-025	1388 276	10	15	62	-----	-----	-----	-----	-----	-----
00-127-026	1388 276	8	10	46	-----	-----	-----	-----	-----	-----
00-127-027	1388 276	8	30	62	-----	-----	-----	-----	-----	-----
00-127-028	1388 276	10	20	72	-----	-----	-----	-----	-----	-----
00-127-029	1388 276	6	25	74	-----	-----	-----	-----	-----	-----
00-127-030	1388 276	16	45	220	-----	-----	-----	-----	-----	-----
00-127-031	1388 276	22	60	468	-----	-----	-----	-----	-----	-----
00-127-032	1388 276	12	40	248	-----	-----	-----	-----	-----	-----
00-127-033	1388 276	8	35	152	-----	-----	-----	-----	-----	-----
00-127-034	1388 276	6	30	154	-----	-----	-----	-----	-----	-----
00-127-035	1388 276	10	45	292	-----	-----	-----	-----	-----	-----
00-127-036	1388 276	14	150	704	-----	-----	-----	-----	-----	-----
00-127-037	1388 276	32	100	612	-----	-----	-----	-----	-----	-----
00-127-038	1388 276	18	35	168	-----	-----	-----	-----	-----	-----
00-127-039	1388 276	12	35	120	-----	-----	-----	-----	-----	-----
00-127-040	1388 276	16	35	118	-----	-----	-----	-----	-----	-----
00-127-041	1388 276	22	35	154	-----	-----	-----	-----	-----	-----
00-127-042	1388 276	14	25	90	-----	-----	-----	-----	-----	-----
00-127-043	1388 276	12	35	140	-----	-----	-----	-----	-----	-----
00-127-044	1388 276	22	45	184	-----	-----	-----	-----	-----	-----
00-127-045	1388 276	156	195	1720	-----	-----	-----	-----	-----	-----
00-127-046	1388 276	12	30	218	-----	-----	-----	-----	-----	-----
00-127-047	1388 276	12	45	228	-----	-----	-----	-----	-----	-----
00-127-048	1388 276	36	65	470	-----	-----	-----	-----	-----	-----
00-127-049	1388 276	280	355	3490	-----	-----	-----	-----	-----	-----
00-127-050	1388 276	90	110	904	-----	-----	-----	-----	-----	-----
00-127-051	1388 276	46	70	602	-----	-----	-----	-----	-----	-----
00-127-052	1388 276	90	125	1155	-----	-----	-----	-----	-----	-----
00-127-053	1388 276	12	25	86	-----	-----	-----	-----	-----	-----
00-127-054	1388 276	16	20	96	-----	-----	-----	-----	-----	-----
00-127-055	1388 276	16	40	162	-----	-----	-----	-----	-----	-----
00-127-056	1388 276	10	20	78	-----	-----	-----	-----	-----	-----
00-127-057	1388 276	18	70	316	-----	-----	-----	-----	-----	-----
127-STA-006	214 238	288	310	2950	1185	0.1185	1110	0.1110	40	0.0040

CERTIFICATION: \_\_\_\_\_

BONDAR CLEGG

10/14/02 MON 08:11 FAX 604 985 1071

10/14/02 MON 08:12 FAX 504 965 10/1 PUNDAK CLEGG



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.-EXPLORATION  
 NORTH AMERICAN PALLADIUM  
 P.O. BOX 10547  
 THUNDER BAY, ON  
 P7B 6T9

Page Number : 1  
 Total Pages : 3  
 Certificate Date: 11-DEC-2000  
 Invoice No. : 10035135  
 P.O. Number :  
 Account : MZI

Project : 00-127  
 Comments : ATTN: MOE LAVIGNE

## CERTIFICATE OF ANALYSIS A0035135

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-127-058	1388 276	40	90	548	-----	-----	-----	-----	-----	-----
00-127-059	1388 276	96	100	764	-----	-----	-----	-----	-----	-----
00-127-060	1388 294	54	115	690	-----	-----	-----	-----	-----	-----
00-127-061	1388 294	80	95	610	465	0.0465	648	0.0648	49	0.0049
00-127-062	1388 276	160	180	1610	2030	0.2030	573	0.0573	45	0.0045
00-127-063	1388 276	64	100	806	425	0.0425	427	0.0427	44	0.0044
00-127-064	1388 276	50	105	708	327	0.0327	396	0.0396	51	0.0051
00-127-065	1388 276	62	140	1035	253	0.0253	405	0.0405	53	0.0053
00-127-066	1388 276	38	65	438	233	0.0233	310	0.0310	48	0.0048
00-127-067	1388 294	2	15	54	37	0.0037	176	0.0176	38	0.0038
00-127-068	1388 294	4	10	34	58	0.0058	172	0.0172	37	0.0037
00-127-069	1388 294	12	15	36	67	0.0067	182	0.0182	40	0.0040
00-127-070	1388 294	8	10	62	271	0.0271	173	0.0173	34	0.0034
00-127-071	1388 294	24	85	558	856	0.0856	544	0.0544	69	0.0069
00-127-072	1388 294	14	20	86	130	0.0130	148	0.0148	29	0.0029
00-127-073	1388 294	14	20	86	172	0.0172	109	0.0109	17	0.0017
00-127-074	1388 294	30	45	168	829	0.0829	298	0.0398	39	0.0039
00-127-075	1388 294	16	15	70	274	0.0274	147	0.0147	25	0.0025
00-127-076	1388 276	14	10	90	209	0.0209	109	0.0109	20	0.0020
00-127-077	1388 276	8	10	42	157	0.0157	69	0.0069	18	0.0018
00-127-078	1388 276	8	< 5	34	187	0.0187	73	0.0073	17	0.0017
00-127-079	1388 294	20	25	134	437	0.0437	166	0.0166	28	0.0028
00-127-080	1388 294	178	145	910	2270	0.2270	917	0.0917	89	0.0089
00-127-081	1388 294	60	55	380	1140	0.1140	472	0.0472	50	0.0050
00-127-082	1388 294	152	115	874	2370	0.2370	922	0.0922	70	0.0070
00-127-083	1388 294	22	35	208	518	0.0518	239	0.0239	31	0.0031
00-127-084	1388 294	42	20	130	806	0.0806	160	0.0160	24	0.0024
00-127-085	1388 294	118	125	964	2330	0.2330	1330	0.1330	117	0.0117
00-127-086	1388 294	12	10	64	268	0.0268	106	0.0106	19	0.0019
00-127-087	1388 294	10	15	80	273	0.0273	100	0.0100	18	0.0018
00-127-088	1388 294	4	5	44	83	0.0083	26	0.0026	13	0.0013
00-127-089	1388 294	324	110	814	2500	0.2500	793	0.0793	66	0.0066
00-127-090	1388 276	128	115	842	2480	0.2480	1170	0.1170	73	0.0073
00-127-091	1388 276	176	135	1070	2230	0.2230	1235	0.1235	73	0.0073
00-127-092	1388 294	200	115	1270	3870	0.3870	2440	0.2440	113	0.0113
00-127-093	1388 294	44	30	260	715	0.0715	477	0.0477	45	0.0045
00-127-094	1388 294	106	115	776	1565	0.1565	553	0.0553	38	0.0038
00-127-095	1388 294	18	10	82	350	0.0350	141	0.0141	28	0.0028
00-127-096	1388 294	98	70	414	1205	0.1205	386	0.0386	31	0.0031
00-127-097	1388 294	54	100	708	213	0.0213	220	0.0220	26	0.0026

CERTIFICATION: *[Signature]*



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
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To: LAC DES ILES MINES LTD.-EXPLORATION  
 NORTH AMERICAN PALLADIUM  
 P.O. BOX 10547  
 THUNDER BAY, ON  
 P7B 6T9

Page Number :2  
 Total Pages :3  
 Certificate Date :11-DEC-2000  
 Invoice No. :10035135  
 P.O. Number :  
 Account :MZI

Project : 00-127  
 Comments : ATTN: MOE LAVIGNE

## CERTIFICATE OF ANALYSIS A0035135

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-127-098	1388 276	52	20	346	815	0.0815	400	0.0400	44	0.0044
00-127-099	1388 294	28	30	188	395	0.0395	215	0.0215	38	0.0038
00-127-100	1388 294	276	165	1390	5080	0.5080	2030	0.2030	99	0.0099
00-127-101	1388 294	100	115	600	1590	0.1590	906	0.0906	69	0.0069
00-127-102	1388 294	64	75	580	1465	0.1465	818	0.0818	62	0.0062
00-127-103	1388 294	66	115	658	1165	0.1165	625	0.0625	53	0.0053
00-127-104	1388 276	66	75	508	453	0.0453	363	0.0363	45	0.0045
00-127-105	1388 294	50	50	296	572	0.0572	478	0.0478	50	0.0050
00-127-106	1388 294	76	65	512	1470	0.1470	917	0.0917	70	0.0070
00-127-107	1388 276	68	100	540	1360	0.1360	667	0.0667	61	0.0061
00-127-108	1388 276	32	45	276	548	0.0548	375	0.0375	42	0.0042
00-127-109	1388 294	24	20	180	322	0.0322	250	0.0250	36	0.0036
00-127-110	1388 294	58	45	286	955	0.0955	420	0.0420	42	0.0042
00-127-111	1388 276	80	70	312	1735	0.1735	773	0.0773	62	0.0062
00-127-112	1388 276	84	65	408	1265	0.1265	661	0.0661	67	0.0067
00-127-113	1388 276	86	90	712	1640	0.1640	702	0.0702	52	0.0052
00-127-114	1388 294	40	70	500	985	0.0985	641	0.0641	51	0.0051
00-127-115	1388 294	10	< 5	24	280	0.0280	172	0.0172	70	0.0070
00-127-116	1388 276	8	10	34	73	0.0073	106	0.0106	33	0.0033
00-127-117	1388 276	16	10	120	227	0.0227	234	0.0234	41	0.0041
00-127-118	1388 294	8	< 5	44	86	0.0086	131	0.0131	32	0.0032
00-127-119	1388 294	8	< 5	52	98	0.0098	171	0.0171	36	0.0036
00-127-120	1388 294	10	< 5	50	206	0.0206	213	0.0213	34	0.0034
00-127-121	1388 276	18	10	116	546	0.0546	304	0.0304	46	0.0046
00-127-122	1388 276	46	20	164	545	0.0545	394	0.0394	70	0.0070
00-127-123	1388 294	6	< 5	34	73	0.0073	195	0.0195	45	0.0045
00-127-124	1388 294	34	40	270	1175	0.1175	562	0.0562	71	0.0071
00-127-125	1388 276	104	70	558	1780	0.1780	948	0.0948	74	0.0074
00-127-126	1388 276	194	120	1010	3110	0.3110	2400	0.2400	123	0.0123
00-127-127	1388 294	220	120	1000	2200	0.2200	2390	0.2390	110	0.0110
00-127-128	1388 294	104	60	494	1295	0.1295	711	0.0711	50	0.0050
00-127-129	1388 294	8	15	126	114	0.0114	206	0.0206	43	0.0043
00-127-130	1388 276	18	30	164	404	0.0404	344	0.0344	59	0.0059
00-127-131	1388 294	28	60	192	---	---	---	---	---	---
00-127-132	1388 294	4	5	42	---	---	---	---	---	---
00-127-133	1388 294	< 2	< 5	36	---	---	---	---	---	---
00-127-134	1388 276	2	< 5	22	---	---	---	---	---	---
00-127-135	1388 276	4	10	46	---	---	---	---	---	---
00-127-136	1388 276	6	10	40	---	---	---	---	---	---
00-127-137	1388 276	16	20	48	---	---	---	---	---	---

CERTIFICATION:

WJ 002



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD -EXPLORATION  
 NORTH AMERICAN PALLADIUM  
 P.O. BOX 10547  
 THUNDER BAY, ON  
 P7B 6T9

Page Number :3  
 Total Pages :3  
 Certificate Date: 11-DEC-2000  
 Invoice No. : T0035135  
 P.O. Number :  
 Account : MZI

Project : 00-127  
 Comments : ATTN: MOE LAVIGNE

**CERTIFICATE OF ANALYSIS** **A0035135**

SAMPLE	PREP CODE		Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
	00-127-138	1388	276	12	15	82	-----	-----	-----	-----	-----
00-127-139	1388	276	34	30	240	-----	-----	-----	-----	-----	-----
00-127-140	1388	276	14	15	94	-----	-----	-----	-----	-----	-----
00-127-141	1388	276	36	30	252	-----	-----	-----	-----	-----	-----
127-BTA-008	214	238	294	330	3550	1330	0.1330	1215	0.1215	43	0.0043

BUNDAK CLEGG

10/14/02 MON 08:13 FAX 604 985 1071

CERTIFICATION:



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 Analytical Chemists \* Geochemists \* Registered Assayers  
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 Ontario, Canada L4W 2S3  
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 P.O. BOX 10547  
 THUNDER BAY, ON  
 P7B 6T9

Page Number : 1  
 Total Pages : 1  
 Certificate Date: 12-DEC-2000  
 Invoice No. : 10035198  
 P.O. Number :  
 Account : MZI

Project : 00-127  
 Comments : ATTN: MOE LAVIGNE

## CERTIFICATE OF ANALYSIS A0035198

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-127-142	1388 294	30	25	152	----	----	----	----	----	----
00-127-143	1388 294	16	15	100	----	----	----	----	----	----
00-127-144	1388 294	16	20	114	----	----	----	----	----	----
00-127-145	1388 294	6	< 5	16	----	----	----	----	----	----
00-127-146	1388 294	6	< 5	26	----	----	----	----	----	----
00-127-147	1388 294	8	< 5	20	----	----	----	----	----	----
00-127-148	1388 294	6	< 5	30	----	----	----	----	----	----
00-127-149	1388 294	8	5	34	----	----	----	----	----	----
00-127-150	1388 294	14	5	34	----	----	----	----	----	----
00-127-151	1388 294	4	< 5	36	----	----	----	----	----	----
00-127-152	1388 294	8	5	60	----	----	----	----	----	----
00-127-153	1388 294	8	5	74	----	----	----	----	----	----
00-127-154	1388 294	6	10	72	----	----	----	----	----	----
00-127-155	1388 294	4	10	74	----	----	----	----	----	----
00-127-156	1388 294	6	5	68	----	----	----	----	----	----
00-127-157	1388 294	8	10	68	----	----	----	----	----	----
00-127-158	1388 294	6	10	100	----	----	----	----	----	----
00-127-159	1388 294	6	10	134	----	----	----	----	----	----
00-127-160	1388 294	6	25	152	----	----	----	----	----	----
00-127-161	1388 294	6	< 5	42	----	----	----	----	----	----
00-127-162	1388 294	6	< 5	18	----	----	----	----	----	----
00-127-163	1388 294	6	< 5	18	----	----	----	----	----	----
00-127-164	1388 294	4	< 5	24	----	----	----	----	----	----
00-127-165	1388 294	6	< 5	34	----	----	----	----	----	----
00-127-166	1388 294	12	< 5	44	----	----	----	----	----	----
00-127-167	1388 294	12	< 5	56	----	----	----	----	----	----
00-127-168	1388 294	8	20	100	----	----	----	----	----	----
00-127-169	1388 294	10	5	44	----	----	----	----	----	----
00-127-170	1388 294	10	35	96	----	----	----	----	----	----
00-127-171	1388 294	14	35	62	----	----	----	----	----	----
00-127-172	1388 294	10	< 5	28	----	----	----	----	----	----
00-127-173	1388 294	14	10	38	----	----	----	----	----	----
00-127-174	1388 294	8	5	20	----	----	----	----	----	----
00-127-175	1388 294	8	< 5	16	----	----	----	----	----	----
00-127-176	1388 294	8	5	28	----	----	----	----	----	----
00-127-177	1388 294	8	20	72	----	----	----	----	----	----
127-8TA-014	214 238	296	320	3160	1295	0.1295	1150	0.1150	45	0.0045

CERTIFICATION: 

10/14/02 MUN 08:13 FAX 604 985 1071 BUNDAK CLEGG

# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
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 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.-EXPLORATION  
 NORTH AMERICAN PALLADIUM  
 P.O. BOX 10547  
 THUNDER BAY, ON  
 P7B 6T9

Page Number : 1  
 Total Pages : 1  
 Certificate Date : 13-DEC-2000  
 Invoice No. : I0035251  
 P.O. Number :  
 Account : MZI

Project : 00-127  
 Comments : ATTN: MOE LAVIGNE

## CERTIFICATE OF ANALYSIS A0035251

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-127-178	1388 276	8	10	34	-----	-----	-----	-----	-----	-----
00-127-179	1388 276	2	< 5	66	-----	-----	-----	-----	-----	-----
00-127-180	1388 276	4	30	218	-----	-----	-----	-----	-----	-----
00-127-181	1388 276	14	15	174	-----	-----	-----	-----	-----	-----
00-127-182	1388 276	4	5	28	-----	-----	-----	-----	-----	-----
00-127-183	1388 276	20	20	64	-----	-----	-----	-----	-----	-----
00-127-184	1388 276	6	15	66	-----	-----	-----	-----	-----	-----
00-127-185	1388 276	10	25	130	-----	-----	-----	-----	-----	-----
00-127-186	1388 276	4	10	92	-----	-----	-----	-----	-----	-----
00-127-187	1388 276	2	10	74	-----	-----	-----	-----	-----	-----
00-127-188	1388 276	2	10	86	-----	-----	-----	-----	-----	-----
00-127-189	1388 276	2	15	52	-----	-----	-----	-----	-----	-----
00-127-190	1388 276	2	5	12	-----	-----	-----	-----	-----	-----
00-127-191	1388 276	4	10	14	-----	-----	-----	-----	-----	-----
00-127-192	1388 276	4	< 5	14	-----	-----	-----	-----	-----	-----
00-127-193	1388 276	2	< 5	12	-----	-----	-----	-----	-----	-----
00-127-194	1388 276	4	5	16	-----	-----	-----	-----	-----	-----
00-127-195	1388 276	2	5	14	-----	-----	-----	-----	-----	-----
00-127-196	1388 276	2	5	16	-----	-----	-----	-----	-----	-----
00-127-197	1388 276	< 2	10	12	-----	-----	-----	-----	-----	-----
00-127-198	1388 276	2	5	14	-----	-----	-----	-----	-----	-----
00-127-199	1388 276	< 2	5	4	-----	-----	-----	-----	-----	-----
00-127-200	1388 276	< 2	5	2	-----	-----	-----	-----	-----	-----
00-127-201	1388 276	< 2	< 5	14	-----	-----	-----	-----	-----	-----
00-127-202	1388 276	2	5	12	-----	-----	-----	-----	-----	-----
00-127-203	1388 276	2	5	16	-----	-----	-----	-----	-----	-----
00-127-204	1388 276	< 2	5	20	-----	-----	-----	-----	-----	-----
00-127-205	1388 276	8	10	16	-----	-----	-----	-----	-----	-----
00-127-206	1388 276	2	< 5	16	-----	-----	-----	-----	-----	-----
00-127-207	1388 276	2	< 5	14	-----	-----	-----	-----	-----	-----
00-127-208	1388 276	2	5	20	-----	-----	-----	-----	-----	-----
00-127-209	1388 276	2	5	18	-----	-----	-----	-----	-----	-----
00-127-210	1388 276	< 2	5	22	-----	-----	-----	-----	-----	-----
127-STA-019	214 238	252	290	3180	1270	0.1270	1145	0.1145	41	0.0041

CERTIFICATION: 

00004

BUNDAR CLEGG

10/14/02 MUN 08:13 FAX 004 060 10/1



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
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Page Number : 1  
 Total Pages : 1  
 Certificate Date: 13-DEC-2000  
 Invoice No. : I0035373  
 P.O. Number :  
 Account : MZI

Project : 00-127  
 Comments : ATTN: MOE LAVIGNE

## CERTIFICATE OF ANALYSIS A0035373

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-127-211	1388 276	2	10	22	64	0.0064	58	0.0058	27	0.0027
00-127-212	1388 276	2	10	22	48	0.0048	48	0.0048	19	0.0019
00-127-213	1388 276	2	5	20	44	0.0044	44	0.0044	16	0.0016
00-127-214	1388 276	2	5	20	40	0.0040	48	0.0048	17	0.0017
00-127-215	1388 276	2	5	20	66	0.0066	44	0.0044	13	0.0013
00-127-216	1388 276	< 2	10	< 2	66	0.0066	41	0.0041	14	0.0014
00-127-217	1388 276	< 2	10	< 2	80	0.0080	64	0.0064	15	0.0015
00-127-218	1388 276	2	5	14	77	0.0077	54	0.0054	21	0.0021
00-127-219	1388 276	< 2	5	16	52	0.0052	48	0.0048	15	0.0015
00-127-220	1388 276	2	15	12	59	0.0059	50	0.0050	18	0.0018
00-127-221	1388 276	< 2	10	12	51	0.0051	45	0.0045	15	0.0015
00-127-222	1388 276	< 2	10	16	64	0.0064	50	0.0050	18	0.0018
00-127-223	1388 276	< 2	10	12	57	0.0057	50	0.0050	19	0.0019
00-127-224	1388 276	< 2	10	12	60	0.0060	51	0.0051	19	0.0019
00-127-225	1388 276	< 2	10	12	66	0.0066	52	0.0052	20	0.0020
00-127-226	1388 276	< 2	10	14	51	0.0051	47	0.0047	17	0.0017
00-127-227	1388 276	< 2	10	12	70	0.0070	54	0.0054	20	0.0020
00-127-228	1388 276	< 2	5	14	72	0.0072	63	0.0063	20	0.0020
00-127-229	1388 276	< 2	10	44	112	0.0112	82	0.0082	21	0.0021
00-127-230	1388 276	< 2	10	12	60	0.0060	51	0.0051	19	0.0019
00-127-231	1388 276	< 2	10	16	77	0.0077	49	0.0049	14	0.0014
00-127-232	1388 276	< 2	15	30	75	0.0075	53	0.0053	14	0.0014
00-127-233	1388 276	34	45	508	371	0.0371	159	0.0159	23	0.0023
00-127-234	1388 276	4	20	104	196	0.0196	76	0.0076	13	0.0013
00-127-235	1388 276	90	95	496	1880	0.1880	626	0.0626	66	0.0066
00-127-236	1388 276	108	90	506	2190	0.2190	792	0.0792	75	0.0075
00-127-237	1388 276	126	100	410	1735	0.1735	686	0.0686	51	0.0051
00-127-238	1388 276	8	10	50	124	0.0124	38	0.0038	18	0.0018
00-127-239	1388 276	256	115	1400	208	0.0208	365	0.0365	26	0.0026
00-127-240	1388 276	272	780	9670	806	0.0806	2170	0.2170	82	0.0082
00-127-241	1388 276	52	175	3500	233	0.0233	659	0.0659	34	0.0034
00-127-242	1388 276	22	10	52	187	0.0187	27	0.0027	26	0.0026
00-127-243	1388 276	12	10	76	183	0.0183	69	0.0069	22	0.0022
127-STA-025	214 238	280	270	3060	1365	0.1365	1160	0.1160	39	0.0039

CERTIFICATION: \_\_\_\_\_

10/14/04 MON 06:14 FAX 905 624 6163



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.-EXPLORATION  
 NORTH AMERICAN PALLADIUM  
 P.O. BOX 10547  
 THUNDER BAY, ON  
 P7B 6T9

Page Number : 1  
 Total Pages : 1  
 Certificate Date: 13-DEC-2000  
 Invoice No. : 10035383  
 P.O. Number :  
 Account : MZI

Project : 00-127  
 Comments : ATTN: MOE LAVIGNE

## CERTIFICATE OF ANALYSIS A0035383

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-127-244	1388 276	6	15	212	228	0.0228	120	0.0120	32	0.0032
00-127-245	1388 276	2	< 5	14	50	0.0050	38	0.0038	30	0.0030
00-127-246	1388 226	2	10	22	73	0.0073	19	0.0019	27	0.0027
00-127-247	1388 276	4	< 5	4	39	0.0039	29	0.0029	23	0.0023
00-127-248	1388 276	< 2	< 5	4	52	0.0052	24	0.0024	25	0.0025
00-127-249	1388 276	2	5	10	61	0.0061	34	0.0034	29	0.0029
00-127-250	1388 294	8	115	1070	150	0.0150	351	0.0351	37	0.0037
00-127-251	1388 294	6	20	384	444	0.0444	147	0.0147	42	0.0042
00-127-252	1388 294	4	10	166	337	0.0337	109	0.0109	40	0.0040
00-127-253	1388 294	6	150	2360	232	0.0232	439	0.0439	39	0.0039
00-127-254	1388 294	2	60	672	54	0.0054	218	0.0218	25	0.0025
00-127-255	1388 294	6	20	220	253	0.0253	96	0.0096	51	0.0051
00-127-256	1388 294	22	150	2160	139	0.0139	388	0.0388	37	0.0037
00-127-257	1388 294	64	405	6630	1355	0.1355	1125	0.1125	36	0.0036
00-127-258	1388 276	38	240	3800	630	0.0630	772	0.0772	35	0.0035
00-127-259	1388 276	34	235	3680	542	0.0542	685	0.0685	38	0.0038
00-127-260	1388 276	16	175	2790	236	0.0236	457	0.0457	37	0.0037
00-127-261	1388 276	2	15	202	25	0.0025	121	0.0121	27	0.0027
00-127-262	1388 276	2	5	34	15	0.0015	82	0.0082	27	0.0027
00-127-263	1388 276	2	5	28	74	0.0074	68	0.0068	25	0.0025
00-127-264	1388 276	2	15	22	73	0.0073	64	0.0064	20	0.0020
00-127-265	1388 276	2	< 5	24	63	0.0063	66	0.0066	21	0.0021
00-127-266	1388 276	< 2	5	32	95	0.0095	64	0.0064	22	0.0022
00-127-267	1388 276	2	10	26	72	0.0072	60	0.0060	20	0.0020
00-127-268	1388 276	2	15	62	72	0.0072	61	0.0061	20	0.0020
00-127-269	1388 276	2	5	30	92	0.0092	86	0.0086	23	0.0023
00-127-270	1388 276	2	10	26	28	0.0028	63	0.0063	21	0.0021
127-STA-030	214 238	218	320	3440	1310	0.1310	1130	0.1130	40	0.0040

CERTIFICATION: *[Signature]*

10/14/02 MUN 00.14 PAA 004 000 10.14



# ALS Chemex

Aurora Laboratory Services Ltd  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2808 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.-EXPLORATION  
 NORTH AMERICAN PALLADIUM  
 P.O. BOX 10547  
 THUNDER BAY, ON  
 P7B 6T9

Page Number : 1  
 Total Pages : 2  
 Certificate Date: 18-DEC-2000  
 Invoice No. : I0035495  
 P.O. Number :  
 Account : MZI

Project : 00-127  
 Comments: ATTN: MOE LAVIGNE

## CERTIFICATE OF ANALYSIS A0035495

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-127-271	1388 276	< 2	< 5	24	97	0.0097	68	0.0068	24	0.0024
00-127-272	1388 276	< 2	< 5	22	64	0.0064	58	0.0058	18	0.0018
00-127-273	1388 276	< 2	< 5	16	67	0.0067	52	0.0052	20	0.0020
00-127-274	1388 276	< 2	< 10	10	23	0.0023	81	0.0081	25	0.0025
00-127-275	1388 276	4	< 5	4	5	0.0005	138	0.0138	29	0.0029
00-127-276	1388 276	< 2	< 5	18	----	----	----	----	----	----
00-127-277	1388 276	< 2	< 5	22	----	----	----	----	----	----
00-127-278	1388 276	< 2	< 5	32	----	----	----	----	----	----
00-127-279	1388 276	< 2	< 5	22	----	----	----	----	----	----
00-127-280	1388 276	< 2	5	26	----	----	----	----	----	----
00-127-281	1388 276	< 2	< 5	22	----	----	----	----	----	----
00-127-282	1388 276	< 2	< 5	24	----	----	----	----	----	----
00-127-283	1388 276	< 2	< 5	20	----	----	----	----	----	----
00-127-284	1388 276	< 2	< 5	20	----	----	----	----	----	----
00-127-285	1388 276	< 2	< 10	14	----	----	----	----	----	----
00-127-286	1388 276	< 2	< 5	18	----	----	----	----	----	----
00-127-287	1388 276	< 2	< 5	24	----	----	----	----	----	----
00-127-288	1388 276	2	10	20	----	----	----	----	----	----
00-127-289	1388 276	< 2	5	24	----	----	----	----	----	----
00-127-290	1388 276	2	5	24	----	----	----	----	----	----
00-127-291	1388 276	< 2	10	28	----	----	----	----	----	----
00-127-292	1388 276	2	10	28	----	----	----	----	----	----
00-127-293	1388 276	< 2	5	26	----	----	----	----	----	----
00-127-294	1388 276	< 2	< 5	24	----	----	----	----	----	----
00-127-295	1388 276	< 2	< 5	24	----	----	----	----	----	----
00-127-296	1388 276	2	5	26	----	----	----	----	----	----
00-127-297	1388 276	4	< 5	24	----	----	----	----	----	----
00-127-298	1388 276	2	< 5	22	----	----	----	----	----	----
00-127-299	1388 276	2	5	24	----	----	----	----	----	----
00-127-300	1388 276	< 2	< 5	24	----	----	----	----	----	----
00-127-301	1388 276	4	< 5	28	----	----	----	----	----	----
00-127-302	1388 276	2	< 5	18	----	----	----	----	----	----
00-127-303	1388 276	2	< 5	18	----	----	----	----	----	----
00-127-304	1388 276	< 2	< 5	18	----	----	----	----	----	----
00-127-305	1388 276	4	5	26	----	----	----	----	----	----
00-127-306	1388 276	8	< 5	38	171	0.0171	83	0.0083	15	0.0015
00-127-307	1388 276	14	5	24	171	0.0171	52	0.0052	9	0.0009
00-127-308	1388 276	70	50	298	2510	0.2510	919	0.0919	63	0.0063
00-127-309	1388 276	124	110	586	687	0.0687	535	0.0535	36	0.0036
00-127-310	1388 276	210	100	892	927	0.0927	805	0.0805	43	0.0043

CERTIFICATION:

10/14/02 MUN 00:14 FAA 004 809 1011



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAG DES ILES MINES LTD.-EXPLORATION  
 NORTH AMERICAN PALLADIUM  
 P.O. BOX 10547  
 THUNDER BAY, ON  
 P7B 6T9

Page Number :2  
 Total Pages :2  
 Certificate Date: 18-DEC-2000  
 Invoice No. : I0035495  
 P.O. Number :  
 Account : MZI

Project : 00-127  
 Comments : ATTN: MOE LAVIGNE

## CERTIFICATE OF ANALYSIS A0035495

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-127-311	1388 276	156	55	448	918	0.0918	801	0.0801	39	0.0039
00-127-312	1388 276	136	55	380	1480	0.1480	1360	0.1360	51	0.0051
00-127-313	1388 276	84	105	1065	404	0.0404	444	0.0444	25	0.0025
00-127-314	1388 276	96	105	546	694	0.0694	601	0.0601	30	0.0030
00-127-315	1388 276	94	65	260	658	0.0658	582	0.0582	28	0.0028
00-127-316	1388 276	8	< 5	26	46	0.0046	38	0.0038	1	0.0001
00-127-317	1388 276	36	55	474	138	0.0138	202	0.0202	23	0.0023
00-127-318	1388 276	36	175	1480	111	0.0111	320	0.0320	22	0.0022
00-127-319	1388 276	148	100	1040	472	0.0472	346	0.0346	36	0.0036
00-127-320	1388 276	6	50	364	48	0.0048	253	0.0253	30	0.0030
00-127-321	1388 276	6	70	552	81	0.0081	206	0.0206	24	0.0024
00-127-322	1388 276	38	85	808	478	0.0478	607	0.0607	38	0.0038
00-127-323	1388 276	54	175	1550	35	0.0035	343	0.0343	36	0.0036
00-127-324	1388 276	120	155	1695	1285	0.1285	1500	0.1500	50	0.0050
00-127-325	1388 276	22	85	884	123	0.0123	226	0.0226	18	0.0018
00-127-326	1388 276	40	95	870	333	0.0333	484	0.0484	31	0.0031
00-127-327	1388 276	22	120	1150	313	0.0313	579	0.0579	32	0.0032
00-127-328	1388 276	56	250	548	1115	0.1115	1125	0.1125	45	0.0045
00-127-329	1388 276	18	85	544	253	0.0253	388	0.0388	29	0.0029
00-127-330	1388 276	10	110	932	130	0.0130	180	0.0180	17	0.0017
00-127-331	1388 276	50	165	2820	464	0.0464	415	0.0415	29	0.0029
00-127-332	1388 276	8	75	1055	97	0.0097	348	0.0348	33	0.0033
127-STA-032	214 276	-----	-----	-----	1290	0.1290	1100	0.1100	42	0.0042

CERTIFICATION: *[Signature]*

10/14/02 MUN 08:10 FAX 004 000 10/11



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.-EXPLORATION  
 NORTH AMERICAN PALLADIUM  
 P.O. BOX 10547  
 THUNDER BAY, ON  
 P7B 6T9

Page Number : 1-B  
 Total Pages : 1  
 Certificate Date: 20-AUG-2001  
 Invoice No. : I0122354  
 P.O. Number : 1000198  
 Account : MZI

Project : #1033-00-127  
 Comments : ATTN: MOE LAVIGNE

<b>CERTIFICATE OF ANALYSIS</b>	<b>A0122354</b>
--------------------------------	-----------------

SAMPLE	PREP CODE	Cr ppm (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % P (ICP)	P ppm (ICP)	Pb ppm (ICP)	Sb ppm (ICP)	Sr ppm (ICP)	Ti % V (ICP)	W ppm (ICP)	Zn ppm (ICP)	Cu ppm (ICP)	Ni ppm (ICP)	Co ppm (ICP)	
00-127-333	1388 276	217	0.49	5.87	730	< 1	1.55	60	12	5	155	0.06	65	< 10	38	1685	1870	64
00-127-334	1388 276	165	0.32	5.76	770	1	1.43	30	< 2	< 5	123	0.06	81	< 10	38	402	752	48
00-127-335	1388 276	158	0.38	5.97	710	3	1.42	10	< 2	< 5	146	0.04	62	< 10	34	114	490	43
00-127-336	1388 276	119	0.29	5.32	630	1	1.24	20	< 2	< 5	161	0.04	59	< 10	28	304	508	41
00-127-337	1388 276	212	0.23	6.32	745	2	1.13	< 10	< 2	< 5	137	0.04	66	< 10	30	82	636	47
00-127-338	1388 276	157	0.26	5.89	715	1	1.17	< 10	< 2	< 5	135	0.03	62	< 10	30	192	598	46
00-127-339	1388 276	171	0.39	5.22	660	3	1.56	< 10	< 2	< 5	173	0.04	56	< 10	32	85	420	38
00-127-340	1388 276	167	0.37	6.04	750	3	1.28	< 10	< 2	< 5	136	0.04	66	< 10	36	340	598	47
00-127-341	1388 276	217	0.28	6.20	770	1	1.02	10	< 2	< 5	124	0.04	77	< 10	36	799	627	53
00-127-341B	1388 226	1	0.32	4.70	1205	1	1.63	100	< 2	< 5	193	0.17	262	< 10	50	124	114	70
00-127-342	1388 276	146	0.40	6.00	765	< 1	1.38	10	< 2	< 5	158	0.04	68	< 10	30	53	455	43
00-127-343	1388 276	134	0.29	4.21	595	1	1.45	30	< 2	< 5	183	0.04	55	< 10	26	58	506	36
00-127-344	1388 276	113	0.35	5.37	685	3	1.19	10	< 2	< 5	152	0.03	58	< 10	30	43	403	39
00-127-345	1388 276	113	0.49	4.35	635	< 1	1.33	10	< 2	< 5	169	0.04	57	< 10	28	268	882	43
00-127-346	1388 276	115	0.42	4.78	640	1	1.48	10	< 2	< 5	172	0.04	52	< 10	32	349	609	39
00-127-347	1388 276	106	0.47	4.79	790	1	1.72	30	< 2	< 5	196	0.07	86	< 10	40	282	454	43
00-127-348	1388 294	134	0.49	5.86	840	1	1.27	10	< 2	< 5	166	0.05	78	< 10	40	317	704	52
00-127-349	1388 294	88	0.60	3.81	815	< 1	1.98	270	< 2	< 5	241	0.19	108	< 10	50	556	710	45
00-127-350	1388 276	86	0.23	4.79	750	< 1	1.51	10	< 2	< 5	174	0.06	88	< 10	36	698	787	50
00-127-351	1388 276	131	0.29	5.40	770	< 1	1.69	10	< 2	< 5	178	0.05	85	< 10	32	752	917	53
00-127-352	1388 276	121	0.31	5.53	720	< 1	1.44	< 10	< 2	< 5	160	0.04	67	< 10	34	529	700	50
00-127-353	1388 276	101	0.38	5.23	745	< 1	1.55	40	< 2	< 5	175	0.05	67	< 10	34	412	593	46
00-127-354	1388 276	126	0.32	6.20	900	< 1	1.46	< 10	< 2	< 5	178	0.05	84	< 10	38	421	631	54
00-127-355	1388 276	118	0.47	5.52	940	< 1	1.46	30	2	< 5	180	0.08	102	< 10	50	1010	1090	61
00-127-355B	1388 226	13	0.37	4.45	1050	< 1	1.51	20	< 2	< 5	208	0.15	254	< 10	46	90	93	51
00-127-356	1388 226	10	0.52	1.65	875	< 1	2.56	1110	4	< 5	381	0.60	161	< 10	88	228	77	32
00-127-357	1388 294	97	0.90	4.89	740	< 1	1.59	< 10	< 2	< 5	190	0.05	67	< 10	36	237	629	45
00-127-358	1388 294	2	0.70	1.62	370	< 1	2.83	1210	4	< 5	563	0.42	97	< 10	26	2210	129	27
00-127-359	1388 294	3	0.53	1.51	370	< 1	3.00	1380	6	< 5	567	0.45	105	< 10	28	2530	106	49
00-127-360	1388 276	1	0.43	1.63	400	< 1	3.01	1400	< 2	< 5	556	0.50	116	< 10	32	3530	124	46
00-127-361	1388 226	< 1	0.12	1.61	425	< 1	2.89	1410	8	< 5	437	0.47	118	< 10	32	1605	85	18
00-127-362	1388 226	185	0.09	6.01	830	< 1	0.98	70	2	< 5	198	0.09	100	< 10	66	1520	1765	122
00-127-363	1388 276	106	1.33	4.40	655	< 1	1.59	10	2	< 5	236	0.04	61	< 10	50	573	951	44
00-127-364	1388 294	181	0.46	5.13	780	< 1	1.52	10	< 2	< 5	199	0.05	83	< 10	44	793	1030	54
00-127-365	1388 276	203	0.43	6.17	880	< 1	1.29	10	< 2	< 5	155	0.05	77	< 10	44	608	801	56
00-127-366	1388 276	337	0.22	7.06	955	< 1	1.04	< 10	< 2	< 5	133	0.05	90	< 10	50	297	519	58
00-127-367	1388 276	373	0.35	8.18	1095	< 1	1.04	30	< 2	< 5	130	0.06	103	< 10	54	130	597	65
00-127-368	1388 294	10	0.87	1.40	665	< 1	2.49	1180	6	< 5	329	0.59	129	< 10	74	113	43	27
00-127-369	1388 294	557	0.37	9.68	1270	< 1	0.69	20	< 2	< 5	91	0.06	114	< 10	74	132	607	73
00-127-STA-212	214 3285	187	0.30	6.17	865	< 1	1.29	20	4	< 5	169	0.07	99	< 10	54	1285	1465	67

CERTIFICATION:  +



# ALS Chemex

Aurora Laboratory Services Ltd  
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 5175 Timberlea Blvd., Mississauga  
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To: LAC DES ILES MINES LTD.-EXPLORATION  
 NORTH AMERICAN PALLADIUM  
 P.O. BOX 10547  
 THUNDER BAY, ON  
 P7B 6T9

Page Number :1-B  
 Total Pages :1  
 Certificate Date: 20-AUG-2001  
 Invoice No. :I0122385  
 P.O. Number :1000201  
 Account :MZI

Project : #1033-00-127  
 Comments : ATTN: MOE LAVIGNE

## CERTIFICATE OF ANALYSIS A0122385

SAMPLE	PREP CODE	Cr ppm (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % P (ICP)	P ppm (ICP)	Pb ppm (ICP)	Sb ppm (ICP)	Sr ppm (ICP)	Ti % V (ICP)	W ppm (ICP)	Zn ppm (ICP)	Cu ppm (ICP)	Ni ppm (ICP)	Co ppm (ICP)	
00-127-370	1388 276	452	0.26	9.13	1250	3	0.88	< 10	< 2	< 5	113	0.07	140	< 10	64	510	786	78
00-127-371	1388 276	343	0.22	8.53	1170	2	0.86	< 10	< 2	< 5	117	0.06	113	< 10	54	803	901	76
00-127-372	1388 276	260	0.20	7.25	1040	1	1.12	< 10	< 2	< 5	142	0.06	113	< 10	46	843	897	69
00-127-373	1388 276	151	0.15	5.27	800	< 1	1.38	< 10	< 2	< 5	166	0.06	99	< 10	40	1260	1240	62
00-127-374	1388 276	204	0.16	7.40	1055	2	0.89	< 10	< 2	< 5	115	0.06	98	< 10	50	462	767	66
00-127-375	1388 276	246	0.15	7.09	1045	< 1	1.09	10	< 2	< 5	144	0.08	115	< 10	52	614	790	69
00-127-376	1388 294	169	0.24	5.21	790	< 1	1.60	20	< 2	< 5	190	0.08	107	< 10	38	462	798	53
00-127-377	1388 226	585	0.07	9.83	1260	1	0.74	< 10	< 2	< 5	86	0.06	130	< 10	62	210	687	78
00-127-378	1388 276	594	0.08	10.14	1250	2	0.60	< 10	< 2	< 5	82	0.06	131	< 10	62	173	678	77
00-127-379	1388 276	618	0.07	10.21	1215	1	0.51	< 10	< 2	< 5	67	0.07	129	< 10	60	212	714	79
00-127-380	1388 226	666	0.11	10.58	1265	3	0.57	< 10	< 2	< 5	70	0.07	128	< 10	60	383	832	82
00-127-381	1388 276	542	0.12	10.07	1195	1	0.78	< 10	< 2	< 5	94	0.07	121	< 10	56	211	701	76
00-127-382	1388 276	154	0.20	5.51	845	< 1	1.24	10	< 2	< 5	166	0.07	95	< 10	42	771	938	56
00-127-383	1388 276	133	0.42	5.00	735	1	1.52	10	< 2	< 5	170	0.06	84	< 10	36	466	776	49
00-127-384	1388 276	115	0.31	5.48	765	1	1.37	10	< 2	< 5	168	0.05	81	< 10	38	566	892	53
00-127-385	1388 276	157	0.29	5.38	775	< 1	1.35	60	< 2	< 5	178	0.07	80	< 10	42	1000	927	54
00-127-386	1388 276	126	0.21	5.17	740	1	1.40	< 10	< 2	< 5	171	0.05	85	< 10	38	883	934	55
00-127-387	1388 294	110	0.26	5.06	745	1	1.24	< 10	< 2	< 5	151	0.06	90	10	36	869	1070	57
00-127-388	1388 294	17	0.92	1.77	415	< 1	2.59	810	< 2	< 5	277	0.42	105	< 10	44	97	211	29
00-127-389	1388 226	109	0.37	4.53	660	1	1.36	70	< 2	< 5	185	0.07	68	< 10	32	760	979	49
00-127-390	1388 294	143	0.37	5.14	690	< 1	1.27	< 10	< 2	< 5	169	0.04	71	< 10	32	186	543	43
00-127-391	1388 226	5	0.95	2.21	860	< 1	2.41	760	< 2	< 5	306	0.46	145	< 10	78	132	76	35
00-127-392	1388 226	< 1	1.01	2.37	1075	< 1	2.37	870	< 2	< 5	325	0.55	158	< 10	104	67	60	41
00-127-393	1388 276	6	0.79	2.61	1065	< 1	2.24	690	< 2	< 5	296	0.48	164	< 10	92	73	65	41
00-127-394	1388 276	235	0.34	7.19	1060	3	1.19	40	< 2	< 5	139	0.08	114	< 10	58	169	470	62
00-127-395	1388 276	98	0.15	5.43	910	< 1	1.51	< 10	< 2	< 5	181	0.07	118	< 10	46	337	463	53
00-127-396	1388 276	112	0.22	5.49	950	< 1	1.69	< 10	< 2	< 5	200	0.06	107	< 10	54	264	408	55
00-127-397	1388 276	534	0.11	10.30	1325	1	0.55	< 10	< 2	< 5	69	0.11	155	< 10	70	491	737	84
00-127-398	1388 276	527	0.10	9.94	1335	3	0.66	10	< 2	< 5	84	0.08	133	< 10	70	259	680	81
00-127-399	1388 276	623	0.07	11.06	1320	2	0.49	< 10	< 2	< 5	73	0.07	132	< 10	66	221	738	83
00-127-400	1388 276	261	0.34	6.90	960	< 1	1.29	20	< 2	< 5	141	0.08	110	< 10	52	242	528	58
00-127-401	1388 276	450	0.15	9.82	1235	2	0.71	10	< 2	< 5	97	0.09	140	10	64	610	922	81
00-127-STA-214	2143285	144	0.31	6.08	825	1	1.32	10	< 2	< 5	170	0.07	97	< 10	52	1275	1405	66

CERTIFICATION: \_\_\_\_\_

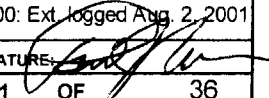
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 20



# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.

LAC DES ILES MINES LTD.

PROPERTY:	LAC DES ILES	CLAIM NUMBER:	253	DOWNHOLE SURVEY METHOD:	Maxibor	DRILLING COMPANY:	CHIBOUGAMAU
HOLE NO.:	00-149	LENGTH: (m)	1101.4 m	CORE SIZE:	NQ	REMARKS:	Core stored at Lac des Iles mine site
LOCATION - MINE GRID		NORTHING:	32106.695	EASTING:	32489.664		Hole stopped at ~381m, backed up & wedged at 210.6m to left. Ext. commenced on July 29, 2001
SECTION:	508N	ZONE:	Roby	ELEVATION:	503.173	DATE LOGGED:	Nov. 14-22, 2000; Ext. logged Aug. 2, 2001
COLLAR ORIENTATION (AZIMUTH / DIP);	PLANNED:	250/-50°	SURVEYED:	249.239/-50.323°		LOGGED:	K. Nelson
HOLE STARTED:	13-Nov-00	HOLE FINISHED:	06-Aug-01	MAG DECLINATION:	2.1° w		J. Rickard & G. Katcher SIGNATURE: 
						SHEET	1 OF 36

METERAGE		DESCRIPTION	Rock Code	SAMPLES						ASSAYS									
FROM	TO			Alt <sup>n</sup>		Bx Matrix		No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
				Plag	Pxr	Comp	Prop												
0.00	3.40	<b>OVERBURDEN</b>																	
3.40	135.96	<b>COARSE GRAINED NORITE</b>  Dark brown to moderate brownish-grey. Coarse grained, equigranular and moderately massive and uniform looking. Approximately equal plag and pyroxenes overall. Plag=45-55% and is fairly pervasively brownish-pink stained and potassic altered. Strongly Opx rich with 40-55% Opx, mainly as the fresh/brown variety with lesser, localized tremolite. Cpx is generally 0-5% but locally up to 15%. There is moderate actinolite and weak to locally moderate tremolite. Opx is fairly fresh but Cpx grains are fairly indistinguishable. Moderately magnetic throughout. Moderately mottled by mafic healed randomly oriented, hairline fractures which occasionally have dark green serpentine alteration. Occasional felsic dikelets (<1cm thick) generally at 30-45° to core axis. Occasionally, fractures are coated with mm thick calcite. Mineralization is nil to locally 0.25% fine grained disseminated pyrite crystals.  17.46m - 17.60m; and 18.50m - 18.64m: Black, very fine grained, non-magnetic diabase (?) dikelets at 30-40° to core axis.  31.17m - 36.54m: Grades through a section that is gabbro-norite with 20-30% Cpx and 20-30% Opx mainly as tremolite. Has an uneven appearance due to differential concentrations of Plag.																	









# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-149

LOGGED BY: K. Nelson SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup> Bx Matrix				SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
135.96	174.21	<b>COARSE GRAINED MELANOGABBRO (TO PYROXENITE)(continued)</b>																
		151.68m - 152.39m: Fine grained gabbro dike(?). Looks like a fine grained gabbro with a sharp upper contact at 45° to core axis. Lower contact to dike obscured by mineralization but may be at 50-55° to core axis. Massive sulphides with 5% pyrite and 15% chalcopyrite/pyrrhotite as fine grained concentrations of 10% throughout with large patches of interstitial flooding and masses up to 75%. Also follows fractures. Lower contact to sulphide appears to be fairly abrupt at 30° to core axis.																
		160.17m: Plag grades out and the unit becomes a pyroxenite with 5-10% plag and locally down to 0%. Alteration and composition is as in the above melanogabbro.																
		167.75m - 168.40m: Black, very fine grained, non-magnetic diabase dike with fractured upper and lower contacts. Last 10cm are irregularly veined/brecciated by quartz pods and shearing with clay and calcite.																
		172.31m - 173.70m: 15-20% veinlets and pods up to 35cm of quartz-diorite which is aphanitic mottled and has 10% biotite-hornblende often along short fractures.																
		174.24m: Abrupt lower contact at 45° to core axis, taken where plag abruptly starts again and brown opx reappears.																
174.24	188.76	<b>COARSE GRAINED NORITE/GABBRONORITE</b>																
		Dark greenish-brown to locally dark greyish-green. Coarse grained, equigranular and fairly massive/uniform looking. Mainly norite with 45-55% plag, 0-10% Cpx and 40-50% Opx (fresh/brown variety). Grades through sections (up to 25% of the unit) which have 10-15% Cpx and is therefore a gabbronorite.																
			2/3	2/3			070	174.24	177.00	2.76	0.50	1:4	0.12	0.03	0.01	0.020	0.016	0.003
			3	2			071	177.00	180.00	3.00			0.10	0.02	0.01	0.015	0.013	0.002
			3	2			072	180.00	183.00	3.00	0.25	1:4	0.08	0.02	0.01	0.012	0.012	0.002
			3	2			073	183.00	186.00	3.00	tr	1:6	0.13	0.03	0.02	0.014	0.015	0.003
			3	2			074	186.00	188.76	2.76	2.00	1:6	0.56	0.09	0.08	0.098	0.132	0.007



# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.

LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-149

LOGGED BY: K. Nelson SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup> Bx Matrix				SAMPLES					ASSAYS							
FROM	TO		Plag	Px	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %	
188.76	192.19	<b>HETEROLITHIC MELANOGABBRO BRECCIA</b>  Same coarse grained, dark greyish-green melanograbbro as in 135.96m - 174.24m with 20-35% Plag, 65-80% Cpx and localized tremolite at 5-10%. Moderate actinolite, tremolite and talc. Has 50% clasts of coarse grained to very coarse grained pyroxenite/websterite(+/- blebby sulphides) up to 85cm long and fine grained gabbro up to 20cm long. Clasts have sharp contacts. Mineralization is variable with best blebby sulphides in the pyroxenite/websterite and localized tiny blebs to fine grained disseminations in the rest.  192.19m: Sharp lower contact at 80° to core axis.	2/3	2/3	Mgab	60	075	188.76	190.70	1.94	1.00	2:1	0.27	0.04	0.03	0.031	0.024	0.004	
				2/3	2/3	Mgab	20	076	190.70	192.19	1.49	1.00	1:3	0.74	0.11	0.05	0.062	0.039	0.005
192.19	379.92	<b>MEDIUM TO COARSE GRAINED MAGNETIC GABBRO TO LEUCOGABBRO</b>  Dark greenish-grey to blackish-grey. Appears to have been medium grained and equigranular to pyroxene porphyritic. Original texture and composition is moderately obscured by black, fine grained magnetite interstitial flooding. This magnetite gives the core a very black look in sections. Non-magnetite sections are either gabbro (45-55% plag and 45-55% Cpx) or leucogabbro (65-80% plag and 20-35% Cpx) with <5% Opx in both. There is moderate actinolite and weak to moderate tremolite with plag fresh to strongly purplish-pink (potassic) altered. Some of the leuco sections almost look like gneissic separation from the gabbro. The core has a very uneven/mottled appearance due to the compositionally variation and due to different amounts of magnetite.	2/3	3			077	192.19	195.00	2.81	1.50	2:1	0.90	0.11	0.11	0.138	0.093	0.006	
				2/3	3			078	195.00	198.00	3.00	1.00	1:3	0.30	0.04	0.04	0.059	0.080	0.008
				2/3	3			079	198.00	201.00	3.00	0.50	1:3	0.11	0.01	0.00	0.013	0.027	0.007
				2/3	3			080	201.00	204.00	3.00	1.50	2:1	0.21	0.03	0.06	0.062	0.033	0.010
				2/3	3			081	204.00	207.00	3.00	2.25	2:1	0.38	0.11	0.05	0.068	0.046	0.011
				2/3	3			082	207.00	210.00	3.00	0.25		0.09	0.01	0.01	0.010	0.026	0.007
				2/3	3			083	210.00	210.60	0.60	1.50	1:2	0.17	0.00	0.03	0.041	0.037	0.008
				2/3	3			084	210.60	213.00	2.40	1.50	1:2	0.39	0.04	0.08	0.107	0.088	0.009
				2/3	3			085	213.00	216.00	3.00	tr	1:0	0.08	0.00	0.01	0.016	0.021	0.006
				2/3	3			086	216.00	219.00	3.00	0.75	3:1	0.21	0.00	0.03	0.051	0.053	0.006
				2/3	3			087	219.00	222.00	3.00	tr		0.12	0.02	0.01	0.020	0.025	0.005
				2/3	3			088	222.00	225.00	3.00	0.75	1:3	0.23	0.03	0.04	0.096	0.071	0.008
				2/3	3			089	225.00	228.00	3.00	tr		0.09	0.01	0.02	0.020	0.017	0.004
				2/3	3			090	228.00	231.00	3.00			0.02	0.00	0.00	0.004	0.010	0.003
				2/3	3			091	231.00	234.00	3.00	1.25	2:1	0.23	0.00	0.05	0.066	0.053	0.006
			2/3	3			092	234.00	237.00	3.00			0.05	0.00	0.01	0.004	0.009	0.003	
			2/3	3			093	237.00	240.00	3.00	tr	1:0	0.09	0.00	0.00	0.006	0.011	0.003	

# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-149

LOGGED BY: K. Nelson SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS							
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %	
192.19	379.92	<p><b>MEDIUM TO COARSE GRAINED MAGNETIC GABBRO TO LEUCOGABBRO (continued)</b></p> <p>Magnetite occurs as trace to &lt;5% fine grained disseminated, to massive flooding up to 40%, to weakly foliated to well bedded at 50-60% with the occasional thick bed &lt;0.5cm thick. Occasional mafic, healed hairline fracture and narrow concentration is visible as well as the occasional calcareous, healed fracture. Rare localized yellowish-green saussuritized alteration. Unit locally appears to be a breccia with fine grained and very coarse grained sections but it is not clearly distinguishable. Mineralization is highly variable - fine grained disseminated, to localized interstitial flooding up to 10% to tiny blebs distributed along core length to thin (&lt;0.5cm) beds along fractures. No one type predominates and there is variable amounts of all sulphides, pyrite, pyrrhotite, chalcopyrite.</p> <p>204.58m - 204.78m: White to grey quartz-vein, slightly brecciated. Sharp contacts at 50-60% to core axis. Has 20% fine grained massive, magnetite in large concentrations and in discontinuous beds along fractures.</p> <p>228.00m - 255.00m: Coarse grained section which has a weak to locally moderate foliation at 50-60° to core axis.</p> <p>255.00m: Gabbro grades through ~60% gabbro-norite in sections up to 4m long which have 10-40% brown Opx, 10-30% Cpx and 45-55% Plag. Moderate actinolite and plag is often stained brownish-pink. Weak to locally moderate tremolite. Has a dark greenish-brown colour. Upper and lower contacts are gradational and taken where Opx is &gt;10% for it to be a gabbro-norite. Gabbro-norite sections continue to at least 274m. Tremolite occurs in the gabbro sections at 5-10% locally.</p>																	
			2/3	3			094	240.00	243.00	3.00	0.50	1:1	0.17	0.03	0.03	0.055	0.033	0.007	
			2/3	3			095	243.00	246.00	3.00	0.25	1:0	0.03	0.00	0.00	0.012	0.010	0.004	
			2/3	3			096	246.00	249.00	3.00	0.50	1:0	0.16	0.02	0.03	0.071	0.049	0.007	
			2/3	3			097	249.00	252.00	3.00	tr		0.02	0.00	0.00	0.006	0.008	0.002	
			2/3	3			098	252.00	255.00	3.00			0.02	0.00	0.00	0.005	0.013	0.004	
			2/3	2/3			099	255.00	258.00	3.00	0.25	1:0	0.02	0.00	0.00	0.002	0.012	0.003	
			2/3	2/3			100	258.00	261.00	3.00	0.50	1:3	0.11	0.02	0.01	0.030	0.022	0.004	
			2/3	2/3			101	261.00	263.85	2.85	0.50	1:3	0.07	0.00	0.00	0.024	0.028	0.006	
			3	2/3			102	263.85	265.12	1.27	0.75	1:3	0.18	0.01	0.02	0.079	0.067	0.015	
			3	2/3			103	265.12	267.00	1.88	1.00	1:3	0.23	0.02	0.03	0.104	0.060	0.008	
			3	2/3			104	267.00	268.38	1.38	1.00	1:3	0.20	0.02	0.02	0.097	0.058	0.007	
			3	2/3			105	268.38	270.44	2.06	0.50	1:3	0.04	0.00	0.00	0.008	0.019	0.005	
			3	2			106	270.44	273.00	2.56	1.00	1:4	0.12	0.01	0.02	0.037	0.040	0.009	
			3	2			107	273.00	276.00	3.00	2.00	1:3	0.17	0.02	0.01	0.089	0.065	0.016	
			3	2			108	276.00	277.36	1.36	2.00	1:3	0.13	0.02	0.01	0.061	0.065	0.019	
			3	3			109	277.36	279.00	1.64	1.50	2:1	0.36	0.04	0.04	0.170	0.080	0.010	
			3	3			110	279.00	282.00	3.00	0.50	1:1	0.23	0.04	0.04	0.067	0.049	0.008	
			3	3			111	282.00	283.12	1.12	tr		0.20	0.03	0.03	0.075	0.048	0.008	
			3	3			112	283.12	285.00	1.88	tr		0.03	0.00	0.00	0.003	0.013	0.004	
			3	3			113	285.00	288.00	3.00			0.02	0.00	0.00	0.002	0.012	0.004	
			3	3			114	288.00	291.00	3.00			0.03	0.00	0.00	0.004	0.012	0.003	
			3	3			115	291.00	294.00	3.00			0.02	0.00	0.00	0.002	0.013	0.004	
		3	3			116	294.00	296.89	2.89	0.25	1:0	0.07	0.00	0.01	0.026	0.021	0.005		
		3	3			117	296.89	300.00	3.11	1.25	2:1	0.15	0.02	0.02	0.070	0.046	0.009		
		3	3			118	300.00	303.13	3.13	1.25	2:1	0.15	0.02	0.02	0.072	0.058	0.011		
		2/3	3			119	303.13	306.00	2.87	tr		0.03	0.00	0.00	0.006	0.012	0.004		
		2/3	3			120	306.00	309.00	3.00			0.03	0.01	0.00	0.006	0.016	0.004		
		2/3	3			121	309.00	312.00	3.00	tr		0.09	0.03	0.00	0.004	0.009	0.002		
		2/3	3			122	312.00	315.00	3.00			0.24	0.02	0.00	0.006	0.010	0.003		
		2/3	3			123	315.00	318.00	3.00	tr	1:0	0.22	0.02	0.00	0.005	0.013	0.004		



# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-149

LOGGED BY: K. Nelson SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS							
FROM	TO		Plag	Pxt	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %	
192.19	379.92	<p><b>MEDIUM TO COARSE GRAINED MAGNETIC GABBRO TO LEUCOGABBRO (continued)</b></p> <p>Fine grained blebs of pyrrhotite and chalcopyrite occur locally up to ~2%.</p> <p>263.85m - 264.24m: Massive magnetite, making up 90% of the section. Sharp upper contact at 65° to core axis and sharp lower contact at 70° to core axis. The rest of the section is gabbro as per above description.</p> <p>264.24m - 265.12m: ~20% magnetite as fine grained, interstitial flooding and as beds up to 4cm thick of up to 90% magnetite.</p> <p>265.12m - 270.44m: Gabbro and gabbro as per above description except that gabbro makes up ~80% of the section.</p> <p>270.44m - 277.36m: Massive magnetite flooding. Section varies from at least 20% magnetite to massive sections of 75-90% which are up to 1.2m long. Higher concentration of magnetite tends to occur in "beds" with fairly sharp contacts and tend to be oriented at 60-70° to core axis. Sharp lower contact at 75° to core axis.</p> <p>277.36m - 283.12m: Back to the coarse grained gabbro which starts off with &lt;5% fine grained, black magnetite disseminated throughout. At 280, magnetite increases to 5-10% and has 40% sections up to 40cm long with 15-25% magnetite in "beds". Again, these beds are at 65-75° to core axis. Last bed ends at 75° to core axis.</p> <p>283.12m - 291.00m: Same coarse grained gabbro with weak to moderate foliation at 55-65° to core axis. Magnetite is &lt;5% fine grained disseminated in this section.</p> <p>291.00m - 296.89m: Coarse grained gabbro has &lt;10% magnetite with 10-15% sections of 10-20% magnetite.</p>																	
			2/3	3			124	318.00	321.00	3.00	tr		0.29	0.00	0.00	0.004	0.008	0.002	
			2/3	3			125	321.00	324.00	3.00	tr		0.13	0.01	0.01	0.007	0.009	0.002	
			3	3/4			126	324.00	327.00	3.00	tr		0.03	0.01	0.01	0.004	0.009	0.002	
			3	3/4			127	327.00	330.00	3.00			0.04	0.00	0.00	0.008	0.011	0.002	
			3	3/4			128	330.00	333.00	3.00			0.03	0.00	0.00	0.002	0.019	0.003	
			3	3/4			129	333.00	336.00	3.00			0.06	0.00	0.00	0.002	0.019	0.005	
			3	3/4			130	336.00	339.00	3.00			0.09	0.02	0.01	0.011	0.038	0.008	
			3	3/4			131	339.00	342.00	3.00	tr		0.04	0.00	0.00	0.003	0.021	0.004	
			3	3/4			132	342.00	345.00	3.00	tr		0.03	0.00	0.00	0.003	0.016	0.004	
			3	3/4			133	345.00	348.00	3.00			0.03	0.00	0.00	0.002	0.021	0.006	
			3	3/4			134	348.00	351.00	3.00			0.07	0.01	0.00	0.002	0.021	0.006	
			3	3/4			135	351.00	354.00	3.00			0.03	0.00	0.00	0.002	0.017	0.004	
			3	3/4			136	354.00	357.00	3.00			0.03	0.00	0.00	0.002	0.015	0.005	
			3	3/4			137	357.00	360.00	3.00			0.02	0.00	0.00	0.002	0.012	0.004	
			2/3	3			138	360.00	363.00	3.00	tr		0.02	0.00	0.00	0.002	0.013	0.004	
			2/3	3			139	363.00	366.00	3.00	tr		0.06	0.00	0.00	0.011	0.017	0.003	
			2/3	3			140	366.00	369.00	3.00			0.03	0.00	0.00	0.002	0.012	0.002	
			2/3	3			141	369.00	372.00	3.00			0.08	0.00	0.00	0.002	0.020	0.004	
			3	3/4			142	372.00	375.00	3.00	tr		0.07	0.00	0.00	0.002	0.031	0.007	
		3	3/4			143	375.00	378.00	3.00	tr		0.04	0.00	0.01	0.007	0.016	0.004		
		3	3/4			144	378.00	379.92	1.92	0.25		0.04	0.00	0.00	0.010	0.024	0.005		

# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-149

LOGGED BY: K. Nelson SIGNATURE \_\_\_\_\_

METERAGE		DESCRIPTION	Alt <sup>n</sup> Bx Matrix				SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
192.19	379.92	<p><b>MEDIUM TO COARSE GRAINED MAGNETIC GABBRO TO LEUCOGABBRO (continued)</b></p> <p>296.89m - 303.13m: Semi-massive magnetite with 10-30% magnetite in medium to coarse grained gabbro. Also includes ~10% beds of massive magnetite at 50-80% magnetite, up to 10cm thick and oriented at 80-90° to core axis.</p> <p>303.13m: From here to end of unit, medium to coarse grained gabbro continues as per initial description except that magnetite is generally trace to 5% with ~10% of the core up to 20% magnetite. Slight varitextured appearance but may be due to the alteration mentioned in the initial description.</p> <p>306.45m - 306.78m: Semi-massive magnetite with 30-40% and has laminations/foliations at 45° to core axis for last 10cm.</p> <p>323.89m - 324.19m: Sheared/altered and quartz vein zone. 15cm of quartz-vein with adjacent shearing, brecciation and patchy saussurite alteration and dark orange (potassic?) staining. Oriented at 50-55° to core axis.</p> <p>379.92m: Sharp lower contact at 45-50° to core axis.</p>																
379.92	567.23	<p><b>COARSE GRAINED GABBRO (EAST GABBRO)</b></p> <p>Dark greyish-green. Coarse grained, equigranular and moderately uniform. Pervasively moderately foliated at 50-60° to core axis. Approximately equal amounts of pyroxenes and plag with 45-55% Plag, 45-55% Cpx and &lt;5% Opx, mainly as tremolite. Weak to moderate actinolite, moderate tremolite and patches of moderate saussurite alteration common. Plag alteration is quite variable - locally fresh/white but often weak to moderate purplish-pink (potassic) altered or less often stained yellowish-green. Plag alteration grades in and out over core length which</p>	3	3/4			145	379.92	381.00	1.08	0.25		0.17	0.02	0.03	0.034	0.014	0.003
			3	3/4			146	381.00	384.00	3.00	0.25		0.01	0.00	0.01	0.017	0.004	0.002
			2/3	3			147	384.00	387.00	3.00	0.25		0.03	0.00	0.00	0.015	0.003	0.002
			2/3	3			148	387.00	390.00	3.00	0.25		0.01	0.00	0.00	0.009	0.003	0.002
			2/3	2/3			149	390.00	393.00	3.00	0.50		0.01	0.00	0.00	0.007	0.003	0.002
			2/3	2/3			150	393.00	396.00	3.00	0.25		0.01	0.00	0.00	0.008	0.003	0.002
			2/3	3/4			151	396.00	399.00	3.00	0.25		0.01	0.00	0.00	0.009	0.008	0.002
			2/3	2/3			152	399.00	402.00	3.00	0.25		0.01	0.00	0.01	0.016	0.005	0.002
			2/3	2/3			153	402.00	405.00	3.00	0.25		0.01	0.00	0.00	0.011	0.015	0.002
			3	2/3			154	405.00	408.00	3.00	0.25		0.01	0.00	0.00	0.010	0.006	0.002
			2/3	2/3			155	408.00	411.00	3.00	0.25		0.01	0.00	0.00	0.009	0.005	0.002
			2/3	2/3			156	411.00	414.00	3.00	0.25		0.01	0.00	0.01	0.011	0.006	0.002

## DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.

LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-149LOGGED BY: K. Nelson

SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>m</sup>				SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
379.92	567.23		<p><b>COARSE GRAINED GABBRO (EAST GABBRO) (continued)</b></p> <p>gives the core a moderately mottled look to it. &lt;5% felsic dikelets (&lt;5cm) thick and irregular patches which vary in alteration from fresh to orange stained to localized hematite along fractures. Weakly mottled by mafic, hairline fractures and by calcareous healed fractures. Mineralization occurs as fine grained disseminated pyrite to the rare tiny blebs distributed along the core length. Locally, it grades through sections of gabbronorite which are dark brownish-green and have 45-55% Plag, 25-35% Opx and 10-20% Cpx. Within these gabbronorite sections, there is weak tremolite as Opx is mostly fresh and brown and plag is pervasively dark brownish-pink stained. Narrow (&lt;2cm thick) zones of greenish-beige shearing (generally at 20-40° to core axis) occur locally.</p> <p>394.09m - 394.90m: Gabbronorite  405.10m - 406.20m: Gabbronorite  411.15m - 412.15m: 25% patches of gabbronorite  412.15m - 412.86m: Gabbronorite  424.77m - 425.76m: Dark greyish-green, very fine grained, non-magnetic, microgabbro dike with ~1% fine grained disseminated and small blebs of pyrite. Sharp upper contact at 30° to core axis which is also faulted off and sharp lower contact at 50° to core axis.  459.26m - 459.63m and 461.21m - 463.81m: Gabbronorite with ~25% patches of gabbronorite in between the 2 sections.  517.77m - 517.86m: Zone of greenish-beige shearing/laminations at 35-40° to core axis. From here down to 518.50m, core is stained dark reddish-orange, in patches, by hematite and has</p>															
						157	414.00	417.00	3.00	0.25		0.01	0.00	0.00	0.011	0.005	0.002	
						158	417.00	420.00	3.00	0.25		0.01	0.00	0.01	0.012	0.005	0.002	
						159	420.00	423.00	3.00	0.25		0.01	0.00	0.00	0.011	0.005	0.002	
						160	423.00	426.00	3.00	0.50		0.01	0.00	0.00	0.017	0.007	0.003	
						161	426.00	429.00	3.00	0.25		0.01	0.00	0.00	0.009	0.005	0.002	
						162	429.00	432.00	3.00	0.25		0.01	0.00	0.00	0.009	0.005	0.002	
						163	432.00	435.00	3.00	0.25		0.02	0.00	0.00	0.008	0.005	0.002	
						164	435.00	438.00	3.00	0.25		0.02	0.00	0.00	0.007	0.005	0.002	
						165	438.00	441.00	3.00	0.25		0.02	0.00	0.00	0.006	0.005	0.002	
						166	441.00	444.00	3.00	tr		0.02	0.00	0.01	0.007	0.005	0.002	
						167	444.00	447.00	3.00	tr		0.02	0.00	0.00	0.006	0.005	0.002	
						168	447.00	450.00	3.00	tr		0.02	0.00	0.00	0.006	0.005	0.002	
						169	450.00	453.00	3.00	tr		0.02	0.00	0.00	0.006	0.005	0.002	
						170	453.00	456.00	3.00	0.50		0.02	0.00	0.01	0.007	0.005	0.002	
						171	456.00	459.00	3.00	tr		0.02	0.00	0.01	0.007	0.005	0.001	
						172	459.00	462.00	3.00	tr		0.02	0.01	0.00	0.006	0.005	0.001	
						173	462.00	465.00	3.00	tr		0.02	0.00	0.01	0.006	0.006	0.001	
						174	465.00	468.00	3.00	0.25		0.02	0.00	0.01	0.007	0.006	0.002	
						175	468.00	471.00	3.00	0.25		0.02	0.00	0.00	0.007	0.005	0.002	
						176	471.00	474.00	3.00	tr		0.02	0.00	0.01	0.006	0.006	0.002	
						177	474.00	477.00	3.00	0.25		0.02	0.00	0.00	0.006	0.005	0.002	
						178	477.00	480.00	3.00	0.25		0.03	0.00	0.01	0.011	0.006	0.002	
						179	480.00	483.00	3.00	0.25		0.04	0.00	0.01	0.011	0.005	0.001	
						180	483.00	486.00	3.00	tr		0.04	0.01	0.01	0.008	0.006	0.002	
						181	486.00	489.00	3.00	tr		0.03	0.00	0.01	0.013	0.006	0.001	
						182	489.00	492.00	3.00	tr		0.02	0.00	0.00	0.004	0.004	0.001	
						183	492.00	495.00	3.00	tr		0.03	0.00	0.00	0.006	0.005	0.002	
						184	495.00	498.00	3.00	tr		0.03	0.00	0.00	0.008	0.006	0.002	
						185	498.00	501.00	3.00	tr		0.02	0.00	0.00	0.006	0.005	0.002	
						186	501.00	504.00	3.00	0.25		0.03	0.00	0.00	0.007	0.005	0.002	

# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-149

LOGGED BY: K. Nelson SIGNATURE \_\_\_\_\_

METERAGE		DESCRIPTION	Alt <sup>n</sup>				SAMPLES					ASSAYS							
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %	
379.92	567.23		<p><b>COARSE GRAINED GABBRO (EAST GABBRO) (continued)</b></p> <p>strong potassic alteration to plag.</p> <p>522.00m - 525.77m: ~60% of the section is irregular clasts of fine grained melanogabbro and coarse grained pyroxenite which have sharp but very wavy and irregular contacts crossing core in all directions. Pyroxenite is well mineralized with fine grained pyrite (1-2%) concentrations sometimes localized along fractures.</p> <p>543.00m - 549.00m: ~5% narrow (&lt;1cm thick) shears and short (&lt;10cm long) zones of hairline brecciation. They have +/- clay, calcite and hematite. Plag is pervasively moderate to locally strong purplish-pink (potassic) altered with localized orange staining.</p> <p>550.42m - 567.23m: Heterolithic Gabbro Breccia. Breccia with heterolithic clasts which are made up largely of fine grained to medium grained gabbro and melanogabbro with lesser coarse grained pyroxenite. They have sharp but irregular and wavy contacts. Mineralization is variable in the clasts but mostly pyrite as fine to coarse grained disseminations to fine grained blebs and concentrations along fractures. Pyrite from trace to localized concentrations of 5%.</p> <p>At 556.35m: Fracture/fault zone. Starts of with 3cm of clayey, fault gouge at 35° to core axis. To 558.00 the core is then well fractured, from chips to sections up to 15cm long. Fractures are clay coated and locally, well brecciate the core. At 558.00, there is a zone of 2-3cm of clay gouge at ~20° to core axis. To 558.40 is a brecciated fault zone of strongly reddish-orange (hematite) stained and altered fragments with clay and minor calcite and silicification.</p>																
			2	2/3			187	504.00	507.00	3.00	tr		0.02	0.00	0.00	0.005	0.005	0.002	
			2	2/3			188	507.00	510.00	3.00	tr		0.03	0.00	0.00	0.007	0.006	0.002	
			2	2/3			189	510.00	513.00	3.00	tr		0.03	0.00	0.02	0.010	0.006	0.002	
			2/3	2/3			190	513.00	516.00	3.00	tr		0.02	0.00	0.00	0.009	0.005	0.002	
			2/3	2/3			191	516.00	519.00	3.00	0.25		0.01	0.00	0.00	0.007	0.006	0.002	
			2/3	2/3			192	519.00	522.00	3.00	tr		0.02	0.00	0.00	0.006	0.005	0.002	
			2/3	3	Gab	20	193	522.00	523.37	1.37	1.00		0.12	0.01	0.01	0.018	0.018	0.005	
			2/3	3	Gab	50	194	523.37	525.77	2.40	1.00	1.0	0.20	0.02	0.00	0.022	0.018	0.005	
			2/3	2/3			195	525.77	528.00	2.23			0.02	0.00	0.00	0.009	0.006	0.002	
			2/3	2/3			196	528.00	531.00	3.00	tr		0.02	0.00	0.00	0.006	0.005	0.002	
			2/3	2/3			197	531.00	534.00	3.00	tr		0.05	0.00	0.00	0.006	0.005	0.002	
			2/3	2/3			198	534.00	537.00	3.00	tr		0.01	0.00	0.00	0.005	0.005	0.002	
			2/3	2/3			199	537.00	540.00	3.00	tr		0.01	0.00	0.00	0.006	0.006	0.002	
			2/3	2/3			200	540.00	543.00	3.00	tr		0.04	0.00	0.00	0.005	0.005	0.002	
			3	2/3			201	543.00	546.00	3.00	tr		0.03	0.00	0.00	0.006	0.006	0.002	
			3	2/3			202	546.00	549.00	3.00	tr		0.04	0.00	0.00	0.009	0.006	0.002	
			3	2/3			203	549.00	550.42	1.42	tr		0.07	0.01	0.01	0.027	0.012	0.002	
					Gab	30	204	550.42	552.00	1.58	1.00	1:4	0.41	0.04	0.05	0.039	0.024	0.003	
					Gab	20	205	552.00	555.00	3.00	0.75	1:4	0.15	0.02	0.00	0.013	0.015	0.003	
					Gab	30	206	555.00	558.00	3.00	0.25		0.05	0.00	0.00	0.004	0.010	0.002	
					Gab	80	207	558.00	561.00	3.00	tr		0.08	0.00	0.00	0.005	0.008	0.002	
							208	561.00	564.00	3.00	tr		0.10	0.01	0.00	0.016	0.008	0.001	
							209	564.00	565.94	1.94	tr		0.17	0.02	0.01	0.019	0.010	0.002	
							210	565.94	567.23	1.29	tr		0.22	0.01	0.01	0.018	0.011	0.002	

# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-149

LOGGED BY: K. Nelson

SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>				Bx Matrix					SAMPLES					ASSAYS				
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %			
379.92	567.23	<p><b>COARSE GRAINED GABBRO (EAST GABBRO) (continued)</b></p> <p>Core is then hematite stained down-hole to 559.50 and then grades out by 560.10. There are also patches of saussuritized alteration to epidote staining through this section as well as localized shearing and fracture brecciation.</p> <p>567.23m: Sharp lower contact at 45° to core axis.</p>																			
567.23	573.03	<p><b>COARSE GRAINED PYROXENITE</b></p> <p>Dark greyish-green. Coarse grained and moderately equigranular and uniform. Locally, it is very coarse grained or medium grained. Generally 100% pyroxene (probably mostly Cpx with moderate to strong actinolite alteration) with only occasional plag. Moderate, silvery talc alteration. Occasional felsic dikelets +/- orange staining and occasional yellowish-green (olivine/epidote?) crystals. Mineralization is mostly pyrite as fine to coarse grained crystals and fine grained blebs, generally in localized concentrations up to 3-4% over 30cm. There is also up to 0.5% chalcopyrite/pyrrhotite (over sample lengths) as fine grained blebs. Occasionally there is hematite and/or calcite on fractures. There is &lt;5% quartz veins/pods up to 4cm thick at various angles to core axis. From 570.00 to 573.03m, there is ~30% sections of gabbro and fine grained pyroxenite-clasts?</p> <p>573.03m: Sharp lower contact at 45° to core axis.</p>	3	3			211	567.23	570.00	2.77	1.50	2:1	8.50	0.51	0.08	0.069	0.054	0.006			
			3	3			212	570.00	573.03	3.03	1.00	1:2	6.04	0.32	0.02	0.009	0.056	0.005			



# DIAMOND DRILL CORE LOGGING SHEETS

LOGGED BY: **K. Nelson**

SIGNATURE

PROPERTY LDI ZONE Roby HOLE # 00-149

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS							
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %	
600.54	603.43	<b>INTERMEDIATE DIKE</b>  Brownish to orangey-brownish. Fine grained and weakly plag porphyritic (crystals are 1-3mm and anhedral to subhedral). Has an aphanitic, pinkish-grey groundmass with 30-40% very fine grained brownish mafics (biotite?). Locally, dark orange (potassic) altered/stained. Weakly mottled by yellowish hairline, bleached, healed fractures. 0.25% fine to medium grained pyrite crystals. Sharp upper contact at 45° to core axis and sharp lower contact at 40° to core axis.	2	3			224	600.54	603.43	2.89	0.25		0.08	0.00	0.01	0.005	0.008	0.001	
603.43	635.29		<b>VARITEXTURED GABBRO</b>  Moderately greyish to silvery-green. Medium to very coarse grained which grade in and out and change abruptly. Varies from equigranular to pyroxene porphyritic. Has a very blotchy and uneven texture. Overall, there is approximately equal plag and pryoxene but they vary somewhat locally with plag usually 45-55% but ranging 40-60%. Pyroxene is also ranging 40-60% and is mostly Cpx with <5% tremolite. Moderate actinolite and tremolite with silvery, fine grained talc often rimming pyroxene grains. Plag is white/fresh to light green stained to weakly purplish-pink (potassic) altered. Occasional biotite altered felsic dikelets and irregular pods to 40cm thick. Weakly mottled by mafic, healed, hairline fractures. Mineralization is highly variable with trace to 0.75% pyrite and nil too .75% chalcopryite/ pyrrhotite as fine grained disseminations to small blebs to localized along fractures.	2/3	3			225	603.43	606.00	2.57	tr		0.72	0.07	0.08	0.021	0.027	0.002
				2/3	3			226	606.00	609.00	3.00	0.75	3:1	1.61	0.12	0.13	0.017	0.027	0.002
				2/3	3			227	609.00	612.00	3.00	0.50	3:1	0.57	0.07	0.10	0.028	0.024	0.002
				2/3	3			228	612.00	615.00	3.00	0.25	1:0	0.24	0.06	0.04	0.015	0.022	0.002
				2/3	3			229	615.00	618.00	3.00	1.25	3:1	2.72	0.42	0.25	0.079	0.074	0.003
				2/3	3			230	618.00	621.00	3.00	1.00	3:1	1.09	0.23	0.11	0.047	0.037	0.003
				2/3	3			231	621.00	624.00	3.00	0.50	3:1	1.03	0.13	0.12	0.054	0.046	0.003
				2/3	3			232	624.00	627.00	3.00	1.25	3:1	2.58	0.48	0.32	0.114	0.084	0.004
				2/3	3			233	627.00	630.00	3.00	0.25	1:0	1.62	0.29	0.09	0.038	0.036	0.003
		2/3		3			234	630.00	633.00	3.00	0.75	3:1	1.45	0.25	0.13	0.071	0.057	0.004	
		2/3		3			235	633.00	635.29	2.29	0.25		0.65	0.17	0.03	0.009	0.025	0.003	







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METERAGE		DESCRIPTION	Alt <sup>n</sup> Bx Matrix				SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
664.10	677.87	<b>DIABASE DIKE</b>  Black, very fine grained, dense looking, magnetic, diabase dike. Fairly uniform with weak fine grained, dark grey mottling. Well mottled by white to greenish-beige, healed, hairline fractures. Some fractures have dark green serpentine coatings and/or calcite. Diabase has rare plag crystal up to 5mm long. Rare medium grained gabbro clasts up to 30cm long. Sharp upper contact at 25° to core axis and sharp lower contact at 65° to core axis. At 677.20, start picking up the occasional clast of the underlying gabbro.					250	664.10	666.00	1.90	tr		0.01	0.00	0.00	0.009	0.002	0.002
							251	666.00	669.00	3.00	tr		0.00	0.00	0.00	0.005	0.002	0.002
							252	669.00	672.00	3.00	tr		0.00	0.00	0.01	0.014	0.002	0.003
							253	672.00	675.00	3.00	tr		0.06	0.00	0.00	0.005	0.003	0.002
							254	675.00	677.87	2.87	tr		0.01	0.00	0.00	0.005	0.002	0.002
677.87	687.00	<b>COARSE GRAINED GABBRO TO LEUCOGABBRO</b>  Light to moderately greyish-green. Coarse grained to locally very coarse grained and moderately pyroxene porphyritic. Has a mottled, uneven appearance due to variable notching of pyroxenes by plag (possible recrystallized plag). Areas where pyroxenes are well notched tend to be more leucogabbro in composition. Plag=50-75%, and Cpx=25-50% and overall, there is 70% gabbro and 30% leucogabbro. There is moderate to locally weak actinolite. Plag is fresh/white to locally greenish to yellowy-green stained. Moderately mottled by mafic, healed, randomly oriented to brecciating, hairline fractures. Only local trace to 0.25% fine grained disseminated pyrite.					2/3	2/3					0.27	0.07	0.01	0.010	0.012	0.002
	E.O.H.												0.02	0.00	0.00	0.007	0.002	0.002
							2/3	2/3			tr		0.09	0.06	0.01	0.003	0.008	0.001
							2	2/3					0.12	0.06	0.00	0.002	0.007	0.001



# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.

LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-149

LOGGED BY: J. Rickard SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>				SAMPLES					ASSAYS				
FROM	TO		Bx Matrix		No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
			Plag	Pxr												
		<b>Extension of DDH 00-149</b>														
687.00	697.70	<b>LEUCOGABBRONORITE</b>														
		Fine grained to coarse grained, poikolitic, dull greenish-grey and black to white, strongly altered.			259	687.00	690.00	3.00			0.11	0.05	0.00	-----	-----	-----
		Unit is composed predominantly of plagioclase, with altered pyroxene as individual grains or large patches.			260	690.00	693.00	3.00			0.11	0.05	0.00	-----	-----	-----
		Cpx is altered to actinolite/chlorite, dark green to dull green.			261	693.00	696.00	3.00			0.10	0.04	0.00	-----	-----	-----
		Opx is altered to silvery tremolite/talc.			262	696.00	697.70	1.70			0.06	0.03	0.00	-----	-----	-----
		Plag is typically bleached or saussuritized (greenish-yellow) more altered toward.														
		Opx 10-20%; Cpx 20-35%; Plag 55-70%.														
		Barren of sulphide,														
		*Lower contact sharp at 20° to core axis.														
		695.10m - 697.70m: Quartz/feldspar dikes, numerous dikes, may be sub-parallel in orientation to core; dike come in and out of core.														
697.70	707.00	<b>LATE MAFIC DIKE</b>														
		Very fine grained to medium grained, porphyritic, bimodal grain-size, dark greenish-black matrix with white-pink feldspar phenocrysts.			263	697.70	698.00	0.30			0.01	0.00	0.00	-----	-----	-----
		Feldspar phenocrysts are typically euhedral to subhedral, vary from 0.2cm to 0.9cm; modal proportion varies from 0-7%.			264	698.00	702.00	4.00			0.00	0.00	0.00	-----	-----	-----
		Dike is typically banded at 30-45° to core axis, dark green and grey bands at 20° to core axis, lower contact undulating sub-parallel to core axis.			265	702.00	705.00	3.00			0.00	0.00	0.00	-----	-----	-----
		*706.00m - 707.00m: Broken Core: broken along joints at ~20-40° to core axis.			266	705.00	707.00	2.00			0.06	0.01	0.02	-----	-----	-----

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North American Palladium Ltd.  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-149

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METERAGE		DESCRIPTION	Alt <sup>n</sup>				Bx Matrix					SAMPLES					ASSAYS				
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %			
707.00	709.15		<p><b>ALTERED GABBRO</b></p> <p>Fine grained to medium grained, dark green and white/pink, strongly altered. Cpx is completely altered to amphibole/chlorite. Plag is strongly saussuritized and hematized. Opx nil; Cpx 45-60%; Plag 40-55%. Numerous thin shears throughout at 40° to sub-parallel to core axis. *Lower contact sheared at ~60° to core axis.</p>	4	4			267	707.00	709.15	2.15			0.24	0.07	0.00					
709.15	717.50	<p><b>PYROXENITE (Sheared)</b></p> <p>Unit is strongly altered and sheared, part of a major fault zone. Fine grained to medium grained, dark green/black, soft, sheared at 20° to sub-parallel to core axis. Pyroxenite is completely altered to fibrous dark green actinolite, talc/chlorite are pervasive; possible serpentine developed near joint planes. Rare plag is bleached white. Primary pyroxene phases difficult to distinguish, as all pyroxene has been completely replaced. Pyroxene 95-100%; Plag 0-5%. Minor pyrite specks and rare chalcopyrite. Upper contact sheared at 60° to core axis, lower contact sheared at 20° to core axis.</p>	3	4			268	709.15	710.00	0.85			0.67	0.17	0.01	0.012	0.065	0.007			
			3	4			269	710.00	711.00	1.00	0.25		0.62	0.14	0.03	0.038	0.073	0.009			
			3	4			270	711.00	712.50	1.50	tr		0.46	0.11	0.03	0.022	0.063	0.008			
			3	4			271	712.50	714.00	1.50	tr		0.37	0.10	0.01	0.011	0.060	0.007			
			3	4			272	714.00	715.50	1.50	tr		0.52	0.13	0.03	0.029	0.069	0.009			
			3	4			273	715.50	717.50	2.00			0.92	0.12	0.00	0.015	0.065	0.006			





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PROPERTY LDI ZONE Roby HOLE # 00-149

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METERAGE		DESCRIPTION	Bx Matrix				SAMPLES					ASSAYS						
FROM	TO		Alt <sup>n</sup>	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %	
			Plag	Pxr														
762.80	770.40	<b>FINE-GRAINED MELANOGABBRO (MICROGABBRO)</b>  Fine grained relatively equigranular, dark grey/green with white specks, homogeneous. Sharp contacts suggest it is a dike, but has a texture typically associated with a gabbro; may be what was formerly called a microgabbro. Cpx is dark green/grey, possibly altered. Plag is bleached white throughout. Cpx 65-75%; Plag 25-35% *Lower contact sharp, undulating at 10° to sub-parallel to core axis. 762.80m - 763.15m: Fault/Shear, oriented at 25° to core axis. Upper contact is clay-granular sized fault gouge. The shear is silicified and chloritized.																
			2	3			292	762.80	765.00	2.20			0.13	0.02	0.00	0.021	0.018	0.004
			2	3			293	765.00	768.00	3.00			0.12	0.02	0.00	0.004	0.029	0.005
			2	3			294	768.00	770.40	2.40			0.17	0.02	0.05	0.023	0.024	0.005
770.40	785.95	<b>VARITEXTURED GABBRO</b>  Unit is a very leucocratic varitextured gabbro. Fine grained to pegmatitic, dark green/black and white/grey, varitextured. Cpx is partly to completely altered to actinolite; crystals up to 4.0cm in diameter. Plag is typically bleached and saussuritized (green/yellow). Contacts between grain sizes are relatively gradational; pegmatitic zones appear as large "pods". Cpx 20-60%, Plag 40-80%. Fine to medium grained, pistachio green epidote seen sporadically throughout. Trace specks of pyrite and very rare chalcopyrite. *Lower contact gradational.																
			3	3			295	770.40	772.00	1.60			1.26	0.11	0.13	0.028	0.049	0.004
			3	3			296	772.00	774.00	2.00			1.01	0.10	0.01	0.008	0.041	0.003
			3	3			297	774.00	777.00	3.00	tr	py	0.64	0.06	0.01	0.024	0.033	0.003
			3	3			298	777.00	780.00	3.00	tr	py	0.74	0.08	0.02	0.013	0.046	0.004
			2	3			299	780.00	783.00	3.00	tr	1:0	1.04	0.13	0.03	0.017	0.048	0.004
		2	3			300	783.00	785.95	2.95	tr	py	0.76	0.07	0.06	0.036	0.053	0.004	







# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-149

LOGGED BY: **J. Rickard**

SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup> Bx Matrix				SAMPLES					ASSAYS							
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %	
806.15	849.80	<b>HETEROLITHIC GABBRO BRECCIA (continued)</b>  810.75m - 811.15m: Fault Zone: upper part is very fine grained to fine grained, very strongly altered, intruded by carbonate veins. Upper contact sharp at 45° to core axis. Lower contact marked by granule and clay-sized gouge at 30° to core axis.  817.00m - 817.15m: Late Mafic Dike: Very fine grained, grey/green, cross-cut by thin light grey shears of various angles. Upper contact sheared at 75° to core axis, lower contact sharp at 40° to core axis.  819.15m - 819.75m: Late Mafic Dike/Quartz-feldspar vein: Consists of a very fine grained Late Mafic Dike (as above), intruded by a quartz-feldspar vein. Vein is fine grained pegmatitic, graphic-textured.  820.30m - 820.50m: 821.00m - 821.15m: 821.50m - 821.65m: <u>Shears</u> Fine grained to very fine grained, chloritic shears at 30° to core axis. Healed shears, <u>no</u> broken rock.																	
849.80	892.70		<b>HETEROLITHIC MELANOGABBRO BRECCIA</b>  Unit is dissimilar from the above breccia because it is dominated by melangabbro matrix, and the contacts with the varitextured gabbro to gabbro clasts are diffuse, often very difficult to distinguish. Matrix: Fine grained to coarse grained, dark green/black to grey/white, often weakly varitextured. Cpx is often altered to actinolite, with dull green chlorite? around crystal margins.	2	3	Mgab	60	325	849.80	852.00	2.20	0.25	py	0.41	0.04	0.07	0.032	0.053	0.004
				2	3	Mgab	80	326	852.00	853.50	1.50	0.50	py	0.36	0.04	0.06	0.027	0.048	0.005
				2	3	Mgab	100	327	853.50	855.00	1.50	0.25	1:0	0.29	0.04	0.05	0.030	0.061	0.004
				2	3	Mgab	50	328	855.00	858.30	3.30	0.25	1:0	1.15	0.14	0.09	0.043	0.085	0.005
								329	858.30	859.80	1.50	tr	py	0.07	0.01	0.01	0.026	0.007	0.003
				2	3	Mgab	95	330	859.80	861.00	1.20	1.00	1:0	2.50	0.23	0.36	0.143	0.104	0.006
				2	3	Mgab	70	331	861.00	864.00	3.00	0.25	1:0	0.62	0.13	0.09	0.037	0.050	0.005
				2	3	Mgab	10	332	864.00	865.50	1.50	0.25	1:0	1.37	0.19	0.10	0.065	0.085	0.006
				2	3	Mgab		333	865.50	867.00	1.50	0.50	1:10	2.80	0.26	0.27	0.114	0.113	0.007
				2	3	Mgab	20	334	867.00	870.00	3.00	0.50	1:1	3.20	0.31	0.23	0.119	0.125	0.007
				2	3	Mgab	10	335	870.00	871.50	1.50	1.50	1:1	4.10	0.39	0.42	0.217	0.133	0.007



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LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-149

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METERAGE		DESCRIPTION	Alt <sup>n</sup>				Bx Matrix					SAMPLES					ASSAYS				
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %			
849.80	892.70	<p><b>HETEROLITHIC MELANOGABBRO BRECCIA (continued)</b></p> <p>882.60m - 889.65m: <u>Mafic Dike</u>: Fine grained, brown and grey, strongly altered; unaltered areas are dark green/black. Looks like a fine grained gabbro. Alteration associated with cross-cutting fractures/shears. Upper contact sharp at 15° to core axis. Lower contact sheared over 30cm, at ~20-30° to core axis.</p>																			
892.70	915.30	<p><b>ALTERED MELANOGABBRO NORITE (Fine Gained)</b></p> <p>Unit is predominantly fine grain, with sporadic medium grained crystals; bimodal grain size. Dark green to light green and grey, altered. Opx is altered to amphibole and talc, grey/white talc is speckled throughout. Some small zones contain Opx that is partly altered, brown and pitted with altered crystal margins. Altered Cpx is difficult to identify, may be the dark green crystals (actinolite). Plag is dark grey to white, occasionally found as medium grained to coarse grained subhedral crystal distributed sporadically (porphyritic texture). Opx 55-65%?, Cpx 10-15%?, Plag &lt;25-30%. Sulphide as fine disseminations, mostly pyrite with less common chalcopyrite. Occasional medium grained to coarse grained clasts? of Gabbro (&lt;30cm), make up &lt;2% of interval; these often contain disseminated sulphide.</p> <p>897.30m - 897.75m: <u>Shear/Late Mafic Dike</u>: Sheared at ~40° to core axis, intruded by a 20cm wide late mafic dike.</p>	2	3			347	892.70	894.00	1.30	0.25	py	0.71	0.09	0.12	0.063	0.083	0.006			
			2	3			348	894.00	897.00	3.00	tr	py	0.50	0.09	0.05	0.026	0.053	0.006			
			2	3			349	897.00	900.00	3.00	tr	py	0.32	0.07	0.03	0.015	0.051	0.006			
			2	2			350	900.00	903.00	3.00	0.25	3:1	0.94	0.14	0.16	0.077	0.096	0.007			
			2	3			351	903.00	906.00	3.00	tr	1:0	0.87	0.15	0.09	0.040	0.079	0.007			
			2	3			352	906.00	909.00	3.00	tr	py	0.71	0.18	0.08	0.038	0.077	0.008			
			2	3			353	909.00	912.00	3.00	tr	py	0.60	0.13	0.06	0.031	0.065	0.007			
			2	3			354	912.00	915.30	3.30	0.25	1:1	1.21	0.15	0.27	0.087	0.105	0.007			

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PROPERTY LDI ZONE Roby HOLE # 00-149

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SIGNATURE

METERAGE		DESCRIPTION	Bx Matrix				SAMPLES					ASSAYS						
FROM	TO		Alt <sup>n</sup>		Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
			Plag	Pxr														
915.30	944.15	<p><b>MELANOGABBRONORITE</b></p> <p>Unit is identical to above, but the Opx is predominantly unaltered. Fine grained to rarely medium grained, dark brown and grey, massive. Opx is typically brown and pitted, occasionally altered to amphibole/talc. Cpx is difficult to distinguish due to fine grained nature of rock, but appears to be a dull green colour (altered?). Plag is grey in colour. Opx 60-65%; Cpx 15-20%; Plag &lt;20-25%. Sulphides as fine disseminations of pyrite and chalcopyrite. Occasional tonalitic dikes distributed sporadically throughout, 1-5cm wide.</p> <p>915.45m - 915.80m; 916.60m - 917.70m; 921.30m - 922.00m: <u>Varitextured gabbro</u>: Possible clasts within the melanogabbro. Medium grained to pegmatitic, moderate alteration, some fresh Opx. Sharp contacts. Speck and blebs of pyrrhotite/chalcopyrite/pyrite up to 1.5cm; up to 3.0% locally.</p>																
			2	2			355	915.30	918.00	2.70	1.00	1:3	2.80	0.23	0.22	0.147	0.144	0.008
			2	2			356	918.00	921.00	3.00	0.25	0:1	0.53	0.09	0.05	0.032	0.070	0.007
			2	2			357	921.00	924.00	3.00	0.25	2:1	1.57	0.20	0.29	0.103	0.116	0.009
			2	2			358	924.00	927.00	3.00	tr	0:1	0.40	0.08	0.03	0.028	0.068	0.007
			2	2			359	927.00	930.00	3.00	tr	py	0.38	0.08	0.02	0.012	0.058	0.007
			2	2			360	930.00	933.00	3.00	tr	1:1	0.47	0.10	0.04	0.017	0.066	0.007
			2	3			361	933.00	936.00	3.00			0.55	0.10	0.03	0.017	0.063	0.007
			2	2			362	936.00	939.00	3.00			0.68	0.11	0.04	0.031	0.072	0.007
			2	2			363	939.00	942.00	3.00	0.25	1:1	0.59	0.13	0.05	0.023	0.072	0.007
		2	2			364	942.00	944.15	2.15			0.59	0.15	0.04	0.013	0.067	0.008	

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LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-149

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METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS							
FROM	TO		Plag	Pxt	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %	
944.15	968.50						<p><b>VARITEXTURED GABBRO</b></p> <p>Greyish-green. Medium to coarse grained. Plag 40-60%; Cpx 25-60%; Opx nil - 15%. Unit is massive, weakly fractured at various levels to core axis. Opx locally observed at top of unit, gradational occurring, most probably due to weak modal layering. Alteration is moderate to strong with Plag altered to a cloudy grey, anhedral crystal form, locally a cloudy white, Cpx altered to actinolite with local talc alteration and fibrous appearance, Opx semi-altered to fibrous tremolite/anthophyllite. Non-magnetic. Nil - 1.75% Chalcopyrite:pyrrhotite (1:2 ratio) occurring as individual and intergrown irregular crystal blebs, largest ~2.5cm diameter. Nil - 0.5% Pyrite, appearing intergrown with chalcopyrite:pyrrhotite as well as individual crystals and crystal blebs.</p> <p>945.00m - 946.85m: Mafic dike (Diabase) ~35° to core axis. Fine grained, moderate plag veining. Moderate magnetite, foliated ~30° to core axis. 0.5% fine grained pyrite disseminated.</p> <p>960.85m - 963.30m: Melanogabbro, fine to medium grained. 0.5% chalcopyrite:pyrrhotite. Massive, possible xenolith.</p> <p>963.60m - 964.35m: Mafic dike, diabase; Moderate epidote. Local plag veining, very hard Moderate magnetite. Nil pyrite.</p>												
			2	2			365	944.15	945.00	0.85	tr	1:1	0.57	0.09	0.07	0.023	0.058	0.005	
							366	945.00	946.85	1.85	0.50		0.16	0.03	0.01	0.008	0.023	0.004	
			2	2			367	946.85	948.00	1.15	1.00	1:1	2.30	0.15	0.27	0.124	0.135	0.006	
			2	3			368	948.00	951.00	3.00	1.25	1:2	0.96	0.11	0.07	0.039	0.084	0.005	
			2	3			369	951.00	954.00	3.00	1.25	1:2	1.35	0.18	0.05	0.042	0.146	0.006	
			2	2			370	954.00	957.00	3.00	1.00	1:2	1.19	0.16	0.09	0.047	0.110	0.005	
			2	2			371	957.00	958.50	1.50	0.50	1:1	1.28	0.22	0.09	0.044	0.092	0.005	
			2	2			372	958.50	960.85	2.35	1.75	1:1	1.32	0.27	0.12	0.089	0.125	0.006	
			2	3			373	960.85	963.60	2.75	0.50	1:1	0.58	0.13	0.04	0.022	0.073	0.008	
							374	963.30	964.35	1.05			0.10	0.02	0.02	0.023	0.014	0.003	
			2	2			375	964.35	966.00	1.65	0.25	1:1	0.54	0.06	0.02	0.015	0.054	0.005	
			2	2			376	966.00	968.50	2.50	0.50	1:2	0.78	0.11	0.04	0.027	0.072	0.007	







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LAC DES ILES MINES LTD.

PROPERTY LDI      ZONE Roby      HOLE # 00-149

LOGGED BY: J. Rickard      SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>		SAMPLES					ASSAYS								
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	NI %	Co %
1017.50	1038.85		<b>GABBRONORITE (continued)</b>  Nil - 1.5% Chalcopyrite:pyrrhotite 1:2 ratio, observed as irregular intergrown crystal blebs. Nil - 0.25% - Pyrite as subhedral fine grained crystals. 1017.15 m - 1017.50m; 1028.95m - 1030.10m: Mafic Dikes: ~40% to core axis. Fine grained, dark grey, non-magnetic.															
1038.85	1064.40	<b>GABBRO</b>  Greyish-green. Medium grained. Plag 45-65%; Cpx 35-55%; Opx nil to trace. Unit is massive, relatively hard, weakly fractured at various angles to core axis. Unit locally approaches leucogabbro composition (gradationally). Alteration is moderate with plag altered to a cloudy white greyish hue, anhedral crystal form, locally very weak saussuritization. Cpx altered to actinolite with local moderate talc alteration exhibited around crystal boundaries, local chloritization observed. Nil - 1.5% Chalcopyrite:pyrrhotite (1:1 to 2:3) ratio's, observed as individual as well as intergrown irregular crystal blebs. Nil to trace pyrite: observed as individual crystals as well as intergrown with pyrrhotite and chalcopyrite. 1053.45m - 1054.20m: Diabase Dike: ~25° to core axis, 2% fine grained disseminated pyrite. Dark grey to black. 1059.25m - 1059.55m: Felsic Dike: ~45° to core axis. Minor biotite.	2	2			404	1038.85	1041.00	2.15	0.50	1:1	1.18	0.21	0.08	0.059	0.057	0.004
			2	2			405	1041.00	1044.00	3.00	0.75	1:1	1.22	0.21	0.05	0.041	0.048	0.004
			1	2			406	1044.00	1047.00	3.00	1.00	1:1	1.70	0.19	0.08	0.096	0.091	0.004
			2	3			407	1047.00	1050.00	3.00	1.00	1:1	0.98	0.14	0.07	0.073	0.062	0.003
			2	2			408	1050.00	1053.00	3.00	1.50	2:3	1.29	0.18	0.16	0.126	0.086	0.004
			2	2			409	1053.00	1056.00	3.00	0.25	2:3	0.77	0.12	0.07	0.059	0.051	0.003
			2	2			410	1056.00	1059.00	3.00	0.50	2:3	0.66	0.11	0.07	0.062	0.052	0.004
			2	2			411	1059.00	1062.00	3.00	0.25	1:2	0.33	0.07	0.04	0.049	0.051	0.004
			2	3			412	1062.00	1064.40	2.40	0.50	1:2	0.96	0.17	0.08	0.052	0.060	0.005







# ALS Chemex

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 5175 Timberlea Blvd., Mississauga  
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To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J8

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 Account : MZI

**2.24642**  
 Subject: 100-149  
 Comments: ATTN: MOE LAVIGNE

**CERTIFICATE OF ANALYSIS A0034604**

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-149-001	1388 276	< 6	25	144	224	0.0224	111	0.0111	15	0.0015
00-149-002	1388 276	< 2	5	70	84	0.0084	60	0.0060	12	0.0012
00-149-003	1388 276	< 2	20	70	87	0.0087	121	0.0121	24	0.0024
00-149-004	1388 276	< 2	15	74	77	0.0077	85	0.0085	17	0.0017
00-149-005	1388 276	< 2	15	62	70	0.0070	78	0.0078	14	0.0014
00-149-006	1388 276	< 2	20	68	64	0.0064	77	0.0077	14	0.0014
00-149-007	1388 276	< 2	15	78	94	0.0094	103	0.0103	21	0.0021
00-149-008	1388 276	< 2	10	62	43	0.0043	86	0.0086	18	0.0018
00-149-009	1388 276	< 2	15	68	42	0.0042	103	0.0103	21	0.0021
00-149-010	1388 276	< 2	15	60	40	0.0040	141	0.0141	27	0.0027
00-149-011	1388 276	< 2	15	62	43	0.0043	121	0.0121	24	0.0024
00-149-012	1388 276	< 2	15	68	59	0.0059	137	0.0137	27	0.0027
00-149-013	1388 276	< 2	15	62	46	0.0046	158	0.0158	29	0.0029
00-149-014	1388 276	< 2	15	54	76	0.0076	108	0.0108	22	0.0022
00-149-015	1388 276	< 2	15	64	79	0.0079	72	0.0072	11	0.0011
00-149-016	1388 276	< 2	20	66	44	0.0044	64	0.0064	11	0.0011
00-149-017	1388 276	32	30	136	463	0.0463	192	0.0192	29	0.0029
00-149-018	1388 276	10	35	92	134	0.0134	86	0.0086	15	0.0015
00-149-019	1388 276	12	15	66	217	0.0217	111	0.0111	16	0.0016
00-149-020	1388 276	12	50	106	177	0.0177	101	0.0101	21	0.0021
00-149-021	1388 276	6	< 5	84	158	0.0158	95	0.0095	22	0.0022
00-149-022	1388 276	4	15	82	88	0.0088	125	0.0125	29	0.0029
00-149-023	1388 276	8	15	60	124	0.0124	78	0.0078	17	0.0017
00-149-024	1388 276	2	< 5	50	84	0.0084	130	0.0130	32	0.0032
00-149-025	1388 276	< 2	20	54	43	0.0043	137	0.0137	36	0.0036
00-149-026	1388 276	4	20	56	68	0.0068	121	0.0121	27	0.0027
00-149-027	1388 276	< 2	30	122	66	0.0066	79	0.0079	14	0.0014
00-149-028	1388 276	4	20	84	120	0.0120	98	0.0098	14	0.0014
00-149-029	1388 276	4	15	74	128	0.0128	112	0.0112	19	0.0019
00-149-030	1388 276	2	20	68	84	0.0084	105	0.0105	18	0.0018
00-149-031	1388 276	< 2	20	80	81	0.0081	79	0.0079	11	0.0011
00-149-032	1388 276	4	25	78	79	0.0079	97	0.0097	14	0.0014
00-149-033	1388 276	2	20	78	73	0.0073	94	0.0094	13	0.0013
00-149-034	1388 276	2	25	96	75	0.0075	107	0.0107	12	0.0012
00-149-035	1388 276	20	35	156	172	0.0172	154	0.0154	22	0.0022
00-149-036	1388 276	< 2	25	78	53	0.0053	115	0.0115	19	0.0019
00-149-037	1388 276	< 2	55	224	37	0.0037	112	0.0112	23	0.0023
00-149-038	1388 276	< 2	20	104	48	0.0048	137	0.0137	27	0.0027
00-149-039	1388 276	< 2	15	88	35	0.0035	77	0.0077	14	0.0014
00-149-040	1388 276	26	40	232	330	0.0330	233	0.0233	27	0.0027

CERTIFICATION:



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 5175 Timberlea Blvd., Mississauga  
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To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

Project : 00-149  
 Comments: ATTN: MOE LAVIGNE

Page Number :2  
 Total Pages :3  
 Certificate Date: 01-DEC-2000  
 Invoice No. : I0034604  
 P.O. Number :  
 Account : MZI

## CERTIFICATE OF ANALYSIS A0034604

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-149-041	1388 276	10	25	124	187	0.0187	134	0.0134	20	0.0020
00-149-042	1388 276	16	5	190	338	0.0338	224	0.0224	36	0.0036
00-149-043	1388 276	8	25	134	165	0.0165	232	0.0232	38	0.0038
00-149-044	1388 276	6	20	88	93	0.0093	172	0.0172	34	0.0034
00-149-045	1388 276	< 2	30	100	64	0.0064	157	0.0157	31	0.0031
00-149-046	1388 276	2	25	118	57	0.0057	134	0.0134	23	0.0023
00-149-047	1388 276	6	35	206	127	0.0127	152	0.0152	22	0.0022
00-149-048	1388 276	8	10	142	156	0.0156	196	0.0196	31	0.0031
00-149-049	1388 276	4	25	100	61	0.0061	108	0.0108	19	0.0019
00-149-050	1388 276	< 2	25	86	30	0.0030	78	0.0078	16	0.0016
00-149-051	1388 276	2	30	88	41	0.0041	92	0.0092	21	0.0021
00-149-052	1388 276	4	30	86	53	0.0053	141	0.0141	28	0.0028
00-149-053	1388 276	< 2	< 5	88	46	0.0046	182	0.0182	39	0.0039
00-149-054	1388 276	< 2	< 5	< 2	23	0.0023	29	0.0029	10	0.0010
00-149-055	1388 276	< 2	< 5	2	21	0.0021	23	0.0023	9	0.0009
00-149-056	1388 276	6	35	166	115	0.0115	269	0.0269	43	0.0043
00-149-057	1388 276	44	35	204	377	0.0377	357	0.0357	48	0.0048
00-149-058	1388 276	22	40	124	335	0.0335	320	0.0320	59	0.0059
00-149-059	1388 276	< 2	5	18	169	0.0169	60	0.0060	20	0.0020
00-149-059B	1388 276	564	340	2820	>10000	>1.0000	>10000	>1.0000	662	0.0662
00-149-060	1388 276	36	55	344	383	0.0383	918	0.0918	66	0.0066
00-149-061	1388 276	30	30	158	256	0.0256	265	0.0265	42	0.0042
00-149-062	1388 276	6	20	82	109	0.0109	174	0.0174	42	0.0042
00-149-063	1388 276	6	20	96	64	0.0064	152	0.0152	39	0.0039
00-149-064	1388 276	26	40	142	192	0.0192	179	0.0179	36	0.0036
00-149-065	1388 276	22	20	118	261	0.0261	235	0.0235	41	0.0041
00-149-066	1388 276	26	45	176	216	0.0216	227	0.0227	46	0.0046
00-149-067	1388 276	10	20	76	113	0.0113	179	0.0179	42	0.0042
00-149-068	1388 276	16	15	98	185	0.0185	175	0.0175	37	0.0037
00-149-069	1388 276	30	40	200	595	0.0595	376	0.0376	48	0.0048
00-149-070	1388 276	10	25	116	197	0.0197	162	0.0162	29	0.0029
00-149-071	1388 276	8	20	98	152	0.0152	129	0.0129	22	0.0022
00-149-072	1388 276	8	20	82	116	0.0116	119	0.0119	21	0.0021
00-149-073	1388 276	18	25	128	140	0.0140	149	0.0149	25	0.0025
00-149-074	1388 276	76	90	564	981	0.0981	1315	0.1315	74	0.0074
00-149-075	1388 276	28	40	274	306	0.0306	242	0.0242	43	0.0043
00-149-076	1388 276	54	110	736	622	0.0622	385	0.0385	51	0.0051
00-149-077	1388 276	112	110	898	1375	0.1375	925	0.0925	61	0.0061
00-149-078	1388 276	38	40	304	588	0.0588	801	0.0801	82	0.0082
00-149-079	1388 276	4	10	114	128	0.0128	272	0.0272	74	0.0074

CERTIFICATION:  



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To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

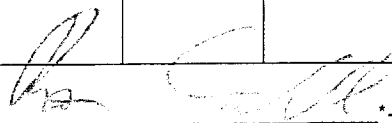
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## CERTIFICATE OF ANALYSIS

### A0034604

SAMPLE	PREP CODE		Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-149-080	1388	276	56	30	212	622	0.0622	331	0.0331	95	0.0095
00-149-081	1388	276	52	110	384	678	0.0678	456	0.0456	107	0.0107
149-STA-211	214	238	336	290	3070	1225	0.1225	1160	0.1160	46	0.0046

CERTIFICATION: 



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Project : 00-149  
 Comments : ATTN: MOE LAVIGNE

## CERTIFICATE OF ANALYSIS A0034607

SAMPLE	PREP CODE		Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
149-STA-213	214	238	330	310	3060	1255	0.1255	1125	0.1125	43	0.0043
00-149-082	1388	276	6	10	88	99	0.0099	259	0.0259	71	0.0071
00-149-083	1388	276	34	< 5	172	409	0.0409	372	0.0372	78	0.0078
00-149-084	1388	276	80	35	386	1065	0.1065	876	0.0876	88	0.0088
00-149-085	1388	276	12	< 5	82	155	0.0155	212	0.0212	57	0.0057
00-149-086	1388	276	34	< 5	208	510	0.0510	525	0.0525	62	0.0062
00-149-087	1388	276	6	15	120	197	0.0197	247	0.0247	47	0.0047
00-149-088	1388	276	40	25	226	955	0.0955	714	0.0714	80	0.0080
00-149-089	1388	276	20	5	86	196	0.0196	172	0.0172	40	0.0040
00-149-090	1388	276	< 2	< 5	16	44	0.0044	104	0.0104	30	0.0030
00-149-091	1388	276	46	< 5	232	662	0.0662	532	0.0532	56	0.0056
00-149-092	1388	276	10	< 5	50	37	0.0037	85	0.0085	29	0.0029
00-149-093	1388	276	2	< 5	88	62	0.0062	110	0.0110	31	0.0031
00-149-094	1388	276	30	25	166	546	0.0546	325	0.0325	72	0.0072
00-149-095	1388	276	< 2	< 5	34	116	0.0116	101	0.0101	40	0.0040
00-149-096	1388	276	26	15	164	705	0.0705	487	0.0487	72	0.0072
00-149-097	1388	276	< 2	< 5	20	59	0.0059	81	0.0081	21	0.0021
00-149-098	1388	276	< 2	< 5	18	46	0.0046	133	0.0133	35	0.0035
00-149-099	1388	276	< 2	< 5	18	24	0.0024	121	0.0121	31	0.0031
00-149-100	1388	276	6	15	106	295	0.0295	221	0.0221	35	0.0035
00-149-101	1388	276	4	< 5	74	236	0.0236	283	0.0283	64	0.0064
00-149-102	1388	276	20	5	184	788	0.0788	672	0.0672	152	0.0152
00-149-103	1388	276	26	20	230	1035	0.1035	595	0.0595	79	0.0079
00-149-104	1388	276	22	20	204	965	0.0965	576	0.0576	69	0.0069
00-149-105	1388	276	2	< 5	44	82	0.0082	192	0.0192	45	0.0045
00-149-106	1388	276	18	5	122	372	0.0372	401	0.0401	85	0.0085
00-149-107	1388	276	14	20	174	885	0.0885	650	0.0650	161	0.0161
00-149-108	1388	276	14	15	130	611	0.0611	652	0.0652	190	0.0190
00-149-109	1388	276	40	40	358	1695	0.1695	800	0.0800	97	0.0097
00-149-110	1388	276	40	40	228	672	0.0672	494	0.0494	81	0.0081
00-149-111	1388	276	26	25	198	751	0.0751	477	0.0477	79	0.0079
00-149-112	1388	276	< 2	< 5	32	32	0.0032	127	0.0127	40	0.0040
00-149-113	1388	276	< 2	< 5	22	24	0.0024	124	0.0124	39	0.0039
00-149-114	1388	276	< 2	< 5	34	40	0.0040	122	0.0122	34	0.0034
00-149-115	1388	276	< 2	< 5	22	21	0.0021	130	0.0130	37	0.0037
00-149-116	1388	276	6	< 5	74	256	0.0256	209	0.0209	49	0.0049
00-149-117	1388	276	18	20	148	697	0.0697	462	0.0462	87	0.0087
00-149-118	1388	276	18	20	154	721	0.0721	582	0.0582	114	0.0114
00-149-119	1388	276	< 2	< 5	26	64	0.0064	117	0.0117	35	0.0035
00-149-120	1388	276	< 2	5	32	57	0.0057	164	0.0164	38	0.0038

CERTIFICATION: \_\_\_\_\_





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 P7B 5J9

Project : 00-149  
 Comments: ATTN: MOE LAVIGNE

Page Number :2  
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## CERTIFICATE OF ANALYSIS A0034607

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.	
00-149-121	1388 276	< 2	25	86	44	0.0044	85	0.0085	23	0.0023	
00-149-122	1388 276	< 2	15	244	55	0.0055	102	0.0102	26	0.0026	
00-149-123	1388 276	< 2	15	224	46	0.0046	133	0.0133	35	0.0035	
00-149-124	1388 276	2	< 5	286	44	0.0044	78	0.0078	19	0.0019	
00-149-125	1388 276	12	10	126	74	0.0074	90	0.0090	19	0.0019	
00-149-126	1388 276	6	5	30	44	0.0044	87	0.0087	19	0.0019	
00-149-127	1388 276	< 2	< 5	36	77	0.0077	106	0.0106	21	0.0021	
00-149-128	1388 276	< 2	< 5	32	20	0.0020	185	0.0185	28	0.0028	
00-149-129	1388 276	< 2	< 5	60	20	0.0020	194	0.0194	52	0.0052	
00-149-130	1388 276	8	15	86	105	0.0105	383	0.0383	75	0.0075	
00-149-131	1388 276	< 2	< 5	44	32	0.0032	208	0.0208	44	0.0044	
00-149-132	1388 276	< 2	< 5	34	30	0.0030	160	0.0160	37	0.0037	
00-149-133	1388 276	< 2	< 5	26	20	0.0020	209	0.0209	56	0.0056	
00-149-134	1388 276	< 2	5	72	17	0.0017	207	0.0207	60	0.0060	
00-149-135	1388 276	< 2	< 5	34	20	0.0020	174	0.0174	44	0.0044	
00-149-136	1388 276	< 2	< 5	28	19	0.0019	151	0.0151	45	0.0045	
00-149-137	1388 276	< 2	< 5	16	17	0.0017	115	0.0115	35	0.0035	
00-149-138	1388 276	< 2	< 5	20	17	0.0017	127	0.0127	39	0.0039	
00-149-139	1388 276	< 2	< 5	64	114	0.0114	169	0.0169	31	0.0031	
00-149-140	1388 276	< 2	< 5	34	19	0.0019	118	0.0118	24	0.0024	
00-149-141	1388 276	< 2	< 5	78	24	0.0024	198	0.0198	35	0.0035	
00-149-142	1388 276	< 2	< 5	66	23	0.0023	309	0.0309	65	0.0065	
00-149-143	1388 276	12	< 5	38	70	0.0070	158	0.0158	41	0.0041	
00-149-144	1388 276	4	< 5	42	102	0.0102	241	0.0241	53	0.0053	
00-149-145	1388 276	26	15	168	343	0.0343	139	0.0139	25	0.0025	
00-149-146	1388 276	6	< 5	10	173	0.0173	41	0.0041	21	0.0021	
00-149-147	1388 276	4	< 5	26	153	0.0153	34	0.0034	19	0.0019	
00-149-148	1388 276	< 2	< 5	12	86	0.0086	32	0.0032	20	0.0020	
00-149-149	1388 276	< 2	< 5	8	73	0.0073	30	0.0030	19	0.0019	
00-149-150	1388 276	< 2	< 5	6	83	0.0083	33	0.0033	18	0.0018	
149-STA-217	214 238	280	250	3230	1210	0.1210	1100	0.1100	42	0.0042	

CERTIFICATION: \_\_\_\_\_



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD -EXPLORATION  
 NORTH AMERICAN PALLADIUM  
 P.O. BOX 10547  
 THUNDER BAY, ON  
 P7B 6T9

Page Number :1  
 Total Pages :2  
 Certificate Date: 11-DEC-2000  
 Invoice No. :10034699  
 P.O. Number :  
 Account :MZI

Project : 00-149  
 Comments: ATTN: MOE LAVIGNE

## CERTIFICATE OF ANALYSIS A0034699

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
149-STA-223	214 238	260	330	3310	1230	0.1230	1100	0.1100	40	0.0040
00-149-151	1388 276	4	< 5	8	87	0.0087	84	0.0084	20	0.0020
00-149-152	1388 276	8	< 5	8	160	0.0160	46	0.0046	21	0.0021
00-149-153	1388 276	2	< 5	10	108	0.0108	145	0.0145	24	0.0024
00-149-154	1388 276	4	< 5	8	95	0.0095	57	0.0057	19	0.0019
00-149-155	1388 276	2	< 5	8	93	0.0093	53	0.0053	19	0.0019
00-149-156	1388 276	6	< 5	10	113	0.0113	59	0.0059	18	0.0018
00-149-157	1388 276	4	< 5	12	109	0.0109	47	0.0047	15	0.0015
00-149-158	1388 276	6	< 5	12	118	0.0118	46	0.0046	19	0.0019
00-149-159	1388 276	4	< 5	12	110	0.0110	48	0.0048	17	0.0017
00-149-160	1388 276	4	< 5	6	168	0.0168	71	0.0071	32	0.0032
00-149-161	1388 276	2	< 5	12	86	0.0086	48	0.0048	19	0.0019
00-149-162	1388 276	4	< 5	14	88	0.0088	51	0.0051	20	0.0020
00-149-163	1388 276	4	< 5	16	75	0.0075	46	0.0046	17	0.0017
00-149-164	1388 276	4	< 5	16	70	0.0070	51	0.0051	18	0.0018
00-149-165	1388 276	4	< 5	18	64	0.0064	47	0.0047	16	0.0016
00-149-166	1388 276	6	< 5	18	70	0.0070	54	0.0054	21	0.0021
00-149-167	1388 276	2	< 5	18	64	0.0064	49	0.0049	16	0.0016
00-149-168	1388 276	4	< 5	16	62	0.0062	48	0.0048	15	0.0015
00-149-169	1388 276	4	< 5	16	64	0.0064	54	0.0054	17	0.0017
00-149-170	1388 276	6	< 5	16	71	0.0071	49	0.0049	16	0.0016
00-149-171	1388 276	6	< 5	16	65	0.0065	50	0.0050	14	0.0014
00-149-172	1388 276	4	< 5	18	61	0.0061	51	0.0051	13	0.0013
00-149-173	1388 276	6	< 5	18	62	0.0062	57	0.0057	13	0.0013
00-149-174	1388 276	8	< 5	18	66	0.0066	58	0.0058	17	0.0017
00-149-175	1388 276	4	< 5	18	72	0.0072	52	0.0052	15	0.0015
00-149-176	1388 276	8	< 5	20	61	0.0061	56	0.0056	17	0.0017
00-149-177	1388 276	4	< 5	22	62	0.0062	50	0.0050	16	0.0016
00-149-178	1388 276	8	< 5	26	110	0.0110	60	0.0060	15	0.0015
00-149-179	1388 276	6	< 5	36	110	0.0110	52	0.0052	14	0.0014
00-149-180	1388 276	6	< 5	36	77	0.0077	58	0.0058	16	0.0016
00-149-181	1388 276	6	< 5	30	125	0.0125	56	0.0056	13	0.0013
00-149-182	1388 276	2	< 5	16	43	0.0043	42	0.0042	14	0.0014
00-149-183	1388 276	2	< 5	30	58	0.0058	50	0.0050	17	0.0017
00-149-184	1388 276	2	< 5	26	75	0.0075	55	0.0055	17	0.0017
00-149-185	1388 276	2	< 5	22	59	0.0059	47	0.0047	16	0.0016
00-149-186	1388 276	4	< 5	26	65	0.0065	51	0.0051	15	0.0015
00-149-187	1388 276	2	< 5	22	51	0.0051	50	0.0050	16	0.0016
00-149-188	1388 276	< 2	< 5	28	67	0.0067	59	0.0059	17	0.0017
00-149-189	1388 276	22	< 5	34	103	0.0103	59	0.0059	18	0.0018

CERTIFICATION: \_\_\_\_\_

11/20/02 WED 10:40 FAX 004 004 0410



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2808 FAX: 905-624-6183

To: LAC DES ILES MINES LTD.-EXPLORATION  
 NORTH AMERICAN PALLADIUM  
 P.O. BOX 10547  
 THUNDER BAY, ON  
 P7B 6T9

Page Number : 2  
 Total Pages : 2  
 Certificate Date: 11-DEC-2000  
 Invoice No. : 10034699  
 P.O. Number :  
 Account : MZI

Project : 00-149  
 Comments : ATTN: MOE LAVIGNE

**CERTIFICATE OF ANALYSIS** **A0034699**

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-149-190	1388 276	4	< 5	20	92	0.0092	48	0.0048	16	0.0016
00-149-191	1388 276	2	< 5	14	71	0.0071	55	0.0055	16	0.0016
00-149-192	1388 276	< 2	< 5	16	60	0.0060	47	0.0047	16	0.0016
00-149-193	1388 276	10	10	124	181	0.0181	184	0.0184	45	0.0045
00-149-194	1388 276	2	15	200	222	0.0222	178	0.0178	45	0.0045
00-149-195	1388 276	< 2	< 5	22	92	0.0092	58	0.0058	18	0.0018
00-149-196	1388 276	< 2	< 5	20	62	0.0062	53	0.0053	18	0.0018
00-149-197	1388 276	2	< 5	46	59	0.0059	51	0.0051	17	0.0017
00-149-198	1388 276	< 2	< 5	12	49	0.0049	50	0.0050	18	0.0018
00-149-199	1388 276	< 2	< 5	14	56	0.0056	55	0.0055	16	0.0016
00-149-200	1388 276	< 2	< 5	38	53	0.0053	51	0.0051	16	0.0016
00-149-201	1388 276	2	< 5	28	57	0.0057	56	0.0056	18	0.0018
00-149-202	1388 276	2	< 5	42	92	0.0092	58	0.0058	15	0.0015
00-149-203	1388 276	6	5	72	271	0.0271	115	0.0115	18	0.0018
00-149-204	1388 276	46	35	406	389	0.0389	237	0.0237	34	0.0034
00-149-205	1388 276	2	20	148	131	0.0131	145	0.0145	27	0.0027
00-149-206	1388 276	2	< 5	50	39	0.0039	96	0.0096	20	0.0020
00-149-207	1388 276	2	< 5	76	47	0.0047	78	0.0078	19	0.0019
00-149-208	1388 276	4	10	102	162	0.0162	81	0.0081	13	0.0013
00-149-209	1388 276	10	15	172	191	0.0191	103	0.0103	22	0.0022
00-149-210	1388 276	8	10	218	176	0.0176	106	0.0106	17	0.0017
00-149-211	1388 276	76	510	8500	693	0.0693	542	0.0542	58	0.0058
00-149-212	1388 276	20	315	6040	87	0.0087	563	0.0563	49	0.0049
00-149-213	1388 276	180	320	4860	293	0.0293	502	0.0502	37	0.0037
00-149-214	1388 276	498	320	5910	810	0.0810	883	0.0883	37	0.0037
00-149-215	1388 276	966	580	8740	1675	0.1675	2140	0.2140	52	0.0052
00-149-216	1388 276	912	330	6000	1315	0.1315	1470	0.1470	50	0.0050
00-149-216B	1388 276	12	5	146	86	0.0086	88	0.0088	27	0.0027
00-149-217	1388 276	282	195	4030	676	0.0676	649	0.0649	46	0.0046
00-149-218	1388 276	224	220	3420	561	0.0561	441	0.0441	36	0.0036
00-149-219	1388 276	398	395	7750	925	0.0925	836	0.0836	46	0.0046
00-149-220	1388 276	130	180	2900	434	0.0434	415	0.0415	35	0.0035
00-149-221	1388 276	124	185	2880	375	0.0375	374	0.0374	25	0.0025
00-149-222	1388 276	308	160	2800	420	0.0420	450	0.0450	30	0.0030
00-149-223	1388 276	212	105	1950	659	0.0659	504	0.0504	37	0.0037
00-149-224	1388 276	10	< 5	84	54	0.0054	76	0.0076	12	0.0012
00-149-225	1388 276	80	70	722	210	0.0210	268	0.0268	22	0.0022
149-STA-229	214 238	236	280	2900	1220	0.1220	1060	0.1060	38	0.0038

CERTIFICATION: \_\_\_\_\_

ALL VOLUMES

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# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-8163

To: LAC DES ILES MINES LTD.-EXPLORATION  
 NORTH AMERICAN PALLADIUM  
 P.O. BOX 10547  
 THUNDER BAY, ON  
 P7B 6T9

Page Number :1  
 Total Pages :1  
 Certificate Date: 08-DEC-2000  
 Invoice No. :10034947  
 P.O. Number :  
 Account :MZI

Project : 00-149  
 Comments: ATTN: MOE LAVIGNE

## CERTIFICATE OF ANALYSIS

**A0034947**

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-149-226	1388 276	130	120	1605	171	0.0171	272	0.0272	19	0.0019
00-149-227	1388 276	98	70	574	284	0.0284	243	0.0243	22	0.0022
00-149-228	1388 276	36	55	238	152	0.0152	221	0.0221	22	0.0022
00-149-229	1388 276	248	415	2720	792	0.0792	741	0.0741	34	0.0034
00-149-230	1388 276	108	230	1085	470	0.0470	367	0.0367	26	0.0026
00-149-231	1388 276	116	130	1030	535	0.0535	460	0.0460	30	0.0030
00-149-232	1388 276	324	475	2580	1140	0.1140	837	0.0837	35	0.0035
00-149-233	1388 276	92	285	1615	381	0.0381	355	0.0355	30	0.0030
00-149-234	1388 276	130	245	1445	714	0.0714	574	0.0574	39	0.0039
00-149-235	1388 276	32	165	646	94	0.0094	247	0.0247	34	0.0034
00-149-236	1388 294	88	375	2280	260	0.0260	395	0.0395	23	0.0023
00-149-237	1388 276	10	15	72	107	0.0107	33	0.0033	20	0.0020
00-149-238	1388 294	64	415	1575	332	0.0332	704	0.0704	29	0.0029
00-149-239	1388 276	90	150	990	451	0.0451	439	0.0439	28	0.0028
00-149-240	1388 294	78	75	502	516	0.0516	285	0.0285	32	0.0032
00-149-241	1388 294	130	75	588	466	0.0466	299	0.0299	23	0.0023
00-149-242	1388 276	12	80	524	65	0.0065	265	0.0265	22	0.0022
00-149-243	1388 276	70	115	548	434	0.0434	367	0.0367	29	0.0029
00-149-244	1388 276	20	30	162	184	0.0184	162	0.0162	17	0.0017
00-149-245	1388 276	22	45	220	170	0.0170	198	0.0198	22	0.0022
00-149-246	1388 294	42	140	708	164	0.0164	213	0.0213	19	0.0019
00-149-247	1388 276	54	90	396	262	0.0262	227	0.0227	22	0.0022
00-149-248	1388 276	50	40	196	366	0.0366	189	0.0189	24	0.0024
00-149-249	1388 294	18	35	92	138	0.0138	131	0.0131	19	0.0019
00-149-250	1388 294	4	< 5	8	89	0.0089	17	0.0017	20	0.0020
00-149-251	1388 276	4	< 5	4	53	0.0053	16	0.0016	23	0.0023
00-149-252	1388 276	6	< 5	4	136	0.0136	16	0.0016	25	0.0025
00-149-253	1388 276	4	< 5	64	47	0.0047	31	0.0031	23	0.0023
00-149-254	1388 276	2	< 5	10	52	0.0052	19	0.0019	22	0.0022
00-149-255	1388 276	12	70	266	97	0.0097	124	0.0124	20	0.0020
00-149-256	1388 294	2	< 5	16	67	0.0067	15	0.0015	22	0.0022
00-149-257	1388 276	6	55	94	34	0.0034	79	0.0079	14	0.0014
00-149-258	1388 276	4	60	120	23	0.0023	73	0.0073	12	0.0012
149-BTA-238	216 238	336	330	3230	1220	0.1220	1160	0.1160	43	0.0043

CERTIFICATION: \_\_\_\_\_

11/20/02

ALS CHEMEX

11/20/02 WED 10:41 FAX 804 984 0218



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.-EXPLORATION  
 NORTH AMERICAN PALLADIUM  
 P.O. BOX 10547  
 THUNDER BAY, ON  
 P7B 6T9

Page Number :1-A  
 Total Pages :2  
 Certificate Date: 16-AUG-2001  
 Invoice No. :10122185  
 P.O. Number :1000193  
 Account :MZI

Project : #1033-00-149  
 Comments : ATTN: MOE LAVIGNE

## CERTIFICATE OF ANALYSIS A0122185

SAMPLE	PREP CODE	Pd ppb	Pt ppb	Au ppb	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	MgO	Cu %	Ni %	Co %	Fe %	S %	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	
		ICP-MS	ICP-MS	ICP-MS	% Calc	% Calc	% Calc	calc.	calc.	calc.	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)
00-149-259	1388 276	105	50.0	3	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
00-149-260	1388 276	110	47.5	2	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
00-149-261	1388 276	100	36.5	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
00-149-262	1388 294	59	27.0	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
00-149-263	1388 226	11	2.5	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
00-149-264	1388 276	4	0.5	3	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
00-149-265	1388 276	< 1	< 0.5	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
00-149-266	1388 276	56	12.0	15	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
00-149-267	1388 276	240	69.5	3	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
00-149-268	1388 294	670	166.0	6	9.77	8.84	18.20	0.0124	0.0653	0.0071	6.18	0.11	< 0.5	5.17	< 5	< 10	< 0.5	6	4.3	< 0.5	
00-149-269	1388 294	620	138.0	33	8.54	9.14	18.65	0.0376	0.0734	0.0087	6.39	0.25	< 0.5	4.52	< 5	< 10	< 0.5	6	4.3	< 0.5	
00-149-270	1388 294	460	112.5	26	7.73	8.16	16.50	0.0217	0.0631	0.0075	5.71	0.14	< 0.5	4.09	< 5	< 10	< 0.5	2	3.8	< 0.5	
00-149-271	1388 294	370	99.5	6	8.63	8.48	17.90	0.0108	0.0602	0.0069	5.93	0.03	< 0.5	4.57	< 5	< 10	< 0.5	4	4.0	< 0.5	
00-149-272	1388 294	520	130.0	31	7.69	9.05	18.70	0.0289	0.0694	0.0088	6.33	0.09	< 0.5	4.07	< 5	50	< 0.5	6	4.9	< 0.5	
00-149-273	1388 276	920	116.0	2	10.50	8.79	15.30	0.0147	0.0651	0.0062	6.15	0.02	< 0.5	5.57	< 5	< 10	< 0.5	2	4.5	< 0.5	
00-149-274	1388 294	21	4.0	14	15.40	9.24	4.29	0.0247	0.0060	0.0034	6.46	0.60	< 0.5	8.15	< 5	< 10	< 0.5	2	4.7	< 0.5	
00-149-275	1388 276	11	2.0	68	15.10	9.25	3.28	0.0124	0.0035	0.0034	6.47	1.23	< 0.5	7.98	< 5	10	< 0.5	< 2	4.6	< 0.5	
00-149-276	1388 276	31	3.0	170	14.95	8.86	3.50	0.0083	0.0039	0.0031	6.20	0.99	< 0.5	7.90	< 5	20	< 0.5	< 2	3.9	< 0.5	
00-149-277	1388 294	730	62.5	23	14.85	6.08	8.77	0.0416	0.0595	0.0048	4.25	0.25	< 0.5	7.87	< 5	70	< 0.5	< 2	4.1	< 0.5	
00-149-278	1388 294	1600	147.0	31	18.10	5.65	9.07	0.1035	0.1100	0.0074	3.95	0.23	< 0.5	9.58	< 5	120	< 0.5	< 2	6.0	< 0.5	
00-149-279	1388 294	750	80.5	15	15.60	5.20	9.38	0.0561	0.0614	0.0059	3.64	0.17	< 0.5	8.26	< 5	90	< 0.5	< 2	4.4	< 0.5	
00-149-280	1388 276	4000	266	210	16.25	5.58	8.74	0.1620	0.1795	0.0080	3.90	0.39	< 0.5	8.59	< 5	110	< 0.5	< 2	6.4	< 0.5	
00-149-281	1388 276	4600	393	270	15.85	5.73	9.42	0.2560	0.2060	0.0073	4.01	0.37	< 0.5	8.39	< 5	90	< 0.5	< 2	6.3	< 0.5	
00-149-282	1388 276	4200	359	390	15.70	5.12	8.92	0.1910	0.1780	0.0063	3.58	0.27	< 0.5	8.30	< 5	70	< 0.5	< 2	7.1	< 0.5	
00-149-283	1388 276	3500	289	195	16.85	4.86	7.98	0.1405	0.1300	0.0049	3.40	0.21	< 0.5	8.93	< 5	120	< 0.5	< 2	6.1	< 0.5	
00-149-284	1388 276	2200	166.0	145	17.25	5.05	9.02	0.0715	0.0983	0.0049	3.53	0.12	< 0.5	9.12	< 5	180	< 0.5	< 2	5.2	< 0.5	
00-149-285	1388 276	1140	146.5	59	17.30	5.00	9.32	0.0482	0.0762	0.0044	3.50	0.09	< 0.5	9.16	< 5	180	< 0.5	< 2	5.2	< 0.5	
00-149-286	1388 276	4000	285	86	17.25	5.90	10.05	0.1485	0.1740	0.0070	4.13	0.36	< 0.5	9.13	< 5	120	< 0.5	< 2	6.4	< 0.5	
00-149-287	1388 276	1630	204	18	16.75	5.36	10.05	0.0486	0.0950	0.0048	3.75	0.15	< 0.5	8.86	< 5	130	< 0.5	< 2	5.7	< 0.5	
00-149-288	1388 294	5700	503	260	17.25	5.75	8.32	0.3300	0.2910	0.0093	4.02	0.91	2.5	9.12	< 5	120	< 0.5	2	7.2	0.5	
00-149-289	1388 294	2800	240	115	17.75	5.42	9.47	0.0972	0.1215	0.0056	3.79	0.24	< 0.5	9.40	< 5	130	< 0.5	< 2	6.5	< 0.5	
00-149-290	1388 294	3900	249	165	16.70	5.09	8.47	0.1130	0.1495	0.0061	3.56	0.28	< 0.5	8.85	< 5	150	< 0.5	< 2	6.5	< 0.5	
00-149-291	1388 294	1410	183.0	8	15.90	5.68	10.00	0.0532	0.1010	0.0054	3.97	0.09	< 0.5	8.42	< 5	120	< 0.5	< 2	5.4	< 0.5	
00-149-292	1388 294	130	16.0	3	15.55	6.51	8.03	0.0210	0.0177	0.0035	4.55	0.07	< 0.5	8.22	< 5	70	0.5	< 2	6.5	< 0.5	
00-149-293	1388 276	120	17.0	1	14.10	8.11	12.35	0.0040	0.0289	0.0049	5.67	0.01	< 0.5	7.46	< 5	70	0.5	2	7.2	< 0.5	
00-149-294	1388 276	170	15.0	45	14.50	7.83	10.30	0.0234	0.0242	0.0047	5.48	0.10	< 0.5	7.67	< 5	70	< 0.5	4	6.7	< 0.5	
00-149-295	1388 276	1260	106.0	125	19.35	5.13	8.72	0.0277	0.0489	0.0041	3.59	0.05	< 0.5	10.25	< 5	100	< 0.5	< 2	6.3	< 0.5	
00-149-296	1388 294	1010	96.5	7	21.1	4.05	6.93	0.0078	0.0414	0.0033	2.83	0.03	< 0.5	11.18	< 5	100	< 0.5	< 2	7.0	< 0.5	
00-149-297	1388 276	640	58.5	13	21.9	4.09	6.40	0.0239	0.0328	0.0032	2.86	0.04	< 0.5	11.60	< 5	90	< 0.5	< 2	7.1	< 0.5	
00-149-298	1388 276	740	82.5	15	17.65	5.62	8.59	0.0131	0.0456	0.0043	3.93	0.03	< 0.5	9.34	< 5	70	< 0.5	< 2	6.6	< 0.5	

CERTIFICATION: +



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.-EXPLORATION  
 NORTH AMERICAN PALLADIUM  
 P.O. BOX 10547  
 THUNDER BAY, ON  
 P7B 6T9

Page Number :2-A  
 Total Pages :2  
 Certificate Date: 16-AUG-2001  
 Invoice No. :10122185  
 P.O. Number :1000193  
 Account :MZI

Project : #1033-00-149  
 Comments: ATTN: MOE LAVIGNE

## CERTIFICATE OF ANALYSIS

A0122185

SAMPLE	PREP CODE	Pd ppb	Pt ppb	Au ppb	Al2O3	Fe2O3	MgO	Cu %	Ni %	Co %	Fe %	S %	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm
		ICP-MS	ICP-MS	ICP-MS	% Calc	% Calc	% Calc	calc.	calc.	calc.	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)
00-149-299	1388 276	1040	127.0	28	19.20	4.79	8.27	0.0172	0.0480	0.0039	3.35	0.04	< 0.5	10.15	< 5	70	< 0.5	< 2	6.4	< 0.5
00-149-300	1388 276	760	68.0	58	20.1	4.68	8.41	0.0362	0.0533	0.0040	3.27	0.08	< 0.5	10.64	< 5	60	< 0.5	< 2	6.8	< 0.5
00-149-301	1388 294	940	109.0	82	18.25	5.25	9.57	0.0540	0.0736	0.0047	3.67	0.13	< 0.5	9.67	< 5	50	< 0.5	< 2	6.3	< 0.5
00-149-302	1388 294	1240	108.0	84	17.35	5.55	8.92	0.0632	0.0742	0.0048	3.88	0.16	< 0.5	9.19	< 5	70	< 0.5	< 2	6.3	< 0.5
00-149-303	1388 294	1760	130.0	105	16.55	5.89	9.85	0.0633	0.0890	0.0051	4.12	0.14	< 0.5	8.76	< 5	80	< 0.5	< 2	6.3	< 0.5
00-149-STA-208	2143285	3100	275	230	15.65	6.49	10.35	0.1200	0.1340	0.0063	4.54	0.33	< 0.5	8.27	< 5	70	< 0.5	< 2	5.9	< 0.5

CERTIFICATION: \_\_\_\_\_



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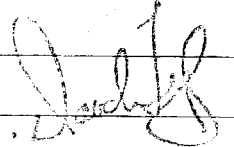
To: LAC DES ILES MINES LTD.-EXPLORATION  
 NORTH AMERICAN PALLADIUM  
 P.O. BOX 10547  
 THUNDER BAY, ON  
 P7B 6T9

Page Number : 1-A  
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 Certificate Date: 20-AUG-2001  
 Invoice No. : 10122311  
 P.O. Number : 1000195  
 Account : MZI

Project : #1033-00-149  
 Comments: ATTN: MOE LAVIGNE

## CERTIFICATE OF ANALYSIS A0122311

SAMPLE	PREP CODE	Pd ppb	Pt ppb	Au ppb	Al2O3	Fe2O3	MgO	Cu %	Ni %	Co %	Fe %	S %	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm
		ICP-MS	ICP-MS	ICP-MS	% Calc	% Calc	% Calc	calc.	calc.	calc.	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)
00-149-304	1388 276	600	46.5	77	16.60	4.49	7.68	0.0448	0.0559	0.0042	3.14	0.12	< 0.5	8.79	< 5	80	< 0.5	< 2	5.2	< 0.5
00-149-305	1388 276	720	65.5	105	16.95	5.29	7.96	0.0644	0.0616	0.0045	3.70	0.18	< 0.5	8.98	< 5	70	< 0.5	< 2	5.8	< 0.5
00-149-306	1388 276	1180	105.5	74	16.20	5.15	9.09	0.0536	0.0784	0.0049	3.60	0.16	< 0.5	8.57	< 5	60	< 0.5	< 2	5.6	< 0.5
00-149-307	1388 294	450	47.5	22	15.75	4.58	8.29	0.0314	0.0670	0.0044	3.20	0.08	< 0.5	8.34	< 5	60	< 0.5	< 2	5.3	< 0.5
00-149-308	1388 294	2300	182.5	145	14.85	5.56	8.94	0.0985	0.1130	0.0054	3.89	0.23	< 0.5	7.87	< 5	70	< 0.5	< 2	4.5	< 0.5
00-149-309	1388 294	710	72.5	17	15.35	5.29	9.53	0.0090	0.0552	0.0042	3.70	0.03	< 0.5	8.12	< 5	60	< 0.5	< 2	4.9	< 0.5
00-149-310	1388 276	520	50.5	18	16.85	4.83	8.17	0.0079	0.0390	0.0036	3.38	0.02	< 0.5	8.91	< 5	80	< 0.5	< 2	5.0	< 0.5
00-149-311	1388 276	200	31.0	3	18.00	4.99	8.54	0.0034	0.0395	0.0038	3.49	< 0.01	< 0.5	9.52	< 5	100	< 0.5	< 2	5.7	< 0.5
00-149-312	1388 276	880	126.5	33	19.10	5.18	8.07	0.0221	0.0457	0.0039	3.62	0.08	< 0.5	10.10	< 5	130	< 0.5	< 2	5.9	< 0.5
00-149-313	1388 276	610	70.0	25	17.75	4.43	6.57	0.0318	0.0519	0.0037	3.10	0.15	< 0.5	9.40	< 5	130	< 0.5	< 2	4.9	< 0.5
00-149-314	1388 276	790	82.0	28	17.80	5.08	8.37	0.0451	0.0554	0.0043	3.55	0.11	< 0.5	9.42	< 5	80	< 0.5	< 2	5.5	< 0.5
00-149-315	1388 276	2500	197.5	82	16.25	5.90	11.10	0.0350	0.0833	0.0056	4.13	0.12	< 0.5	8.59	< 5	70	< 0.5	< 2	5.1	< 0.5
00-149-316	1388 276	2500	218	165	13.35	7.89	11.00	0.1260	0.0791	0.0070	5.52	0.40	< 0.5	7.07	< 5	50	< 0.5	< 2	5.0	< 0.5
00-149-317	1388 276	820	67.0	13	18.90	4.49	7.58	0.0050	0.0363	0.0034	3.14	0.01	< 0.5	9.99	< 5	50	< 0.5	< 2	6.3	< 0.5
00-149-318	1388 294	2500	186.5	85	17.40	5.33	8.79	0.0540	0.0597	0.0044	3.73	0.11	< 0.5	9.22	< 5	50	< 0.5	< 2	5.9	< 0.5
00-149-319	1388 294	4600	339	230	17.45	6.52	8.01	0.0856	0.0925	0.0058	4.56	0.37	< 0.5	9.23	< 5	60	< 0.5	< 2	5.9	< 0.5
00-149-320	1388 276	4100	316	105	16.20	6.21	8.07	0.0532	0.0886	0.0055	4.34	0.21	< 0.5	8.57	< 5	70	< 0.5	< 2	5.3	< 0.5
00-149-321	1388 276	3200	238	115	18.90	5.10	6.96	0.0526	0.0731	0.0048	3.57	0.22	< 0.5	10.01	< 5	70	< 0.5	< 2	6.0	< 0.5
00-149-322	1388 276	1190	122.5	24	19.75	4.36	7.74	0.0107	0.0355	0.0035	3.05	0.03	< 0.5	10.44	< 5	100	< 0.5	< 2	6.3	< 0.5
00-149-323	1388 276	1270	167.5	19	18.60	4.70	8.85	0.0076	0.0365	0.0038	3.29	0.01	< 0.5	9.85	< 5	80	< 0.5	< 2	5.8	< 0.5
00-149-324	1388 226	260	28.5	52	18.40	6.65	6.33	0.0339	0.0306	0.0040	4.65	0.26	< 0.5	9.75	< 5	230	< 0.5	< 2	5.9	< 0.5
00-149-325	1388 294	410	35.5	72	18.45	5.82	8.97	0.0316	0.0529	0.0044	4.07	0.08	< 0.5	9.77	< 5	70	< 0.5	< 2	6.0	< 0.5
00-149-326	1388 294	360	43.0	58	17.10	5.93	9.07	0.0269	0.0481	0.0047	4.15	0.09	< 0.5	9.04	< 5	40	< 0.5	< 2	5.7	< 0.5
00-149-327	1388 294	290	41.0	48	19.10	5.32	8.95	0.0303	0.0613	0.0043	3.72	0.08	< 0.5	10.12	< 5	40	< 0.5	< 2	6.2	< 0.5
00-149-328	1388 276	1150	136.0	92	17.90	5.00	8.79	0.0428	0.0845	0.0045	3.50	0.11	< 0.5	9.48	< 5	50	< 0.5	< 2	5.7	< 0.5
00-149-329	1388 294	69	6.0	13	16.30	8.72	2.84	0.0261	0.0071	0.0030	6.10	0.12	< 0.5	8.62	< 5	440	< 0.5	< 2	4.2	< 0.5
00-149-330	1388 226	2500	234	360	15.30	7.19	8.17	0.1430	0.1040	0.0057	5.03	0.43	< 0.5	8.10	< 5	50	< 0.5	< 2	5.3	< 0.5
00-149-331	1388 276	620	128.0	87	15.90	5.39	9.27	0.0368	0.0496	0.0046	3.77	0.09	< 0.5	8.41	< 5	30	< 0.5	< 2	5.3	< 0.5
00-149-332	1388 294	1370	194.0	97	17.40	6.43	10.75	0.0647	0.0849	0.0057	4.50	0.19	< 0.5	9.21	< 5	40	< 0.5	< 2	6.3	< 0.5
00-149-333	1388 294	2800	258	270	14.15	8.94	9.77	0.1140	0.1125	0.0071	6.25	0.40	< 0.5	7.49	< 5	40	< 0.5	< 2	5.2	< 0.5
00-149-334	1388 276	3200	314	230	14.65	8.34	8.74	0.1185	0.1250	0.0067	5.83	0.44	< 0.5	7.75	< 5	50	< 0.5	< 2	5.2	< 0.5
00-149-335	1388 294	4100	392	420	14.80	7.76	8.22	0.2170	0.1330	0.0068	5.43	0.66	< 0.5	7.83	< 5	60	< 0.5	< 2	5.9	< 0.5
00-149-336	1388 294	1210	136.5	26	21.0	4.13	6.23	0.0211	0.0700	0.0037	2.89	0.12	< 0.5	11.11	< 5	70	< 0.5	< 2	6.8	< 0.5
00-149-337	1388 294	1370	163.0	110	17.50	5.35	8.54	0.0855	0.0913	0.0051	3.74	0.22	< 0.5	9.26	< 5	50	< 0.5	< 2	6.4	< 0.5
00-149-338	1388 294	1510	144.0	120	16.15	5.65	8.74	0.0754	0.1030	0.0056	3.95	0.23	< 0.5	8.56	< 5	60	< 0.5	< 2	5.7	< 0.5
00-149-339	1388 276	1780	264	120	18.50	5.52	8.59	0.0723	0.1050	0.0052	3.86	0.21	< 0.5	9.80	< 5	70	< 0.5	< 2	6.7	< 0.5
00-149-STA-211	2143285	3100	298	220	15.70	6.41	9.63	0.1180	0.1260	0.0062	4.48	0.35	< 0.5	8.32	< 5	50	< 0.5	< 2	5.6	< 0.5

CERTIFICATION: \_\_\_\_\_  \_\_\_\_\_ +



# ALS Chemex

Aurora Laboratory Services Ltd.  
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To: LAC DES ILES MINES LTD.-EXPLORATION  
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Page Number :1-A  
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 P.O. Number :1000199  
 Account :MZI

Project: #1033-00-149  
 Comments: ATTN: MOE LAVIGNE

## CERTIFICATE OF ANALYSIS A0122353

SAMPLE	PREP		Pd ppb	Pt ppb	Au ppb	Al2O3	Fe2O3	MgO	Cu %	Ni %	Co %	Fe %	S %	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm
	CODE		ICP-MS	ICP-MS	ICP-MS	% Calc	% Calc	% Calc	calc.	calc.	calc.	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)
00-149-340	1388	226	1220	164.0	53	18.95	4.16	5.39	0.0576	0.0920	0.0043	2.91	0.31	< 0.5	10.02	< 5	120	< 0.5	< 2	6.4	< 0.5
00-149-341	1388	294	2400	227	78	17.70	6.16	7.86	0.1215	0.1410	0.0060	4.31	0.53	< 0.5	9.36	< 5	220	< 0.5	< 2	6.1	< 0.5
00-149-342	1388	276	115	4.0	165	15.95	6.42	2.40	0.2820	0.0096	0.0038	4.49	0.87	0.5	8.43	< 5	140	0.5	< 2	3.9	< 0.5
00-149-343	1388	276	180	6.5	250	16.45	5.86	2.54	0.5130	0.0103	0.0033	4.10	0.78	2.5	8.70	< 5	70	< 0.5	< 2	4.3	< 0.5
00-149-344	1388	226	250	23.0	165	16.30	6.15	2.95	0.4390	0.0181	0.0034	4.30	0.53	1.0	8.64	< 5	40	< 0.5	< 2	5.0	< 0.5
00-149-345	1388	226	1090	147.0	1530	18.20	5.52	7.40	0.0112	0.0552	0.0045	3.86	0.03	< 0.5	9.63	< 5	300	< 0.5	< 2	5.3	< 0.5
00-149-346	1388	294	165	35.5	8	13.20	6.05	9.70	0.0174	0.0388	0.0047	4.23	0.03	< 0.5	6.99	< 5	120	< 0.5	< 2	4.7	< 0.5
00-149-347	1388	226	710	91.5	120	13.80	7.39	11.25	0.0627	0.0826	0.0059	5.17	0.19	< 0.5	7.30	< 5	60	< 0.5	< 2	5.5	< 0.5
00-149-348	1388	276	500	86.0	49	12.85	7.55	12.70	0.0256	0.0531	0.0061	5.28	0.07	< 0.5	6.80	< 5	50	< 0.5	2	5.1	< 0.5
00-149-349	1388	276	320	65.0	33	11.30	8.36	13.25	0.0153	0.0511	0.0060	5.85	0.05	< 0.5	5.98	< 5	110	< 0.5	2	4.1	< 0.5
00-149-350	1388	276	940	144.0	155	11.35	8.82	14.25	0.0769	0.0959	0.0074	6.17	0.21	< 0.5	6.01	< 5	40	< 0.5	4	4.4	< 0.5
00-149-351	1388	276	870	151.5	89	9.86	8.84	14.25	0.0397	0.0791	0.0073	6.18	0.12	< 0.5	5.22	< 5	70	< 0.5	2	4.0	0.5
00-149-352	1388	276	710	176.0	82	9.45	9.46	15.50	0.0382	0.0765	0.0077	6.62	0.12	< 0.5	5.00	< 5	40	< 0.5	6	4.2	0.5
00-149-353	1388	276	600	126.5	60	9.47	8.62	14.45	0.0307	0.0650	0.0070	6.03	0.08	< 0.5	5.01	5	40	< 0.5	2	4.1	< 0.5
00-149-354	1388	276	1210	146.0	270	14.10	7.52	10.80	0.0865	0.1050	0.0066	5.26	0.28	< 0.5	7.47	< 5	70	< 0.5	< 2	5.3	< 0.5
00-149-355	1388	276	2800	225	220	12.90	7.56	10.40	0.1470	0.1435	0.0077	5.29	0.48	< 0.5	6.84	< 5	40	< 0.5	< 2	5.4	< 0.5
00-149-356	1388	276	530	88.5	52	10.50	9.24	14.60	0.0320	0.0704	0.0074	6.46	0.14	< 0.5	5.55	5	30	< 0.5	4	4.5	< 0.5
00-149-357	1388	276	1570	198.0	290	10.30	9.35	14.45	0.1025	0.1160	0.0085	6.54	0.33	< 0.5	5.45	< 5	30	< 0.5	2	4.5	0.5
00-149-358	1388	276	400	77.5	34	10.70	8.85	14.90	0.0278	0.0675	0.0070	6.19	0.09	< 0.5	5.65	< 5	30	< 0.5	6	4.4	0.5
00-149-359	1388	276	380	79.0	24	8.77	8.56	15.30	0.0121	0.0582	0.0069	5.99	0.04	< 0.5	4.64	< 5	30	< 0.5	6	3.5	< 0.5
00-149-360	1388	276	470	102.5	41	8.31	8.69	16.20	0.0170	0.0664	0.0071	6.08	0.07	< 0.5	4.40	< 5	20	< 0.5	8	3.4	0.5
00-149-361	1388	276	550	99.0	25	8.01	8.31	15.35	0.0172	0.0628	0.0067	5.81	0.05	< 0.5	4.24	< 5	30	< 0.5	6	3.2	0.5
00-149-362	1388	276	680	114.5	43	8.58	8.49	15.25	0.0310	0.0716	0.0068	5.94	0.09	< 0.5	4.54	5	80	< 0.5	6	3.2	0.5
00-149-363	1388	276	590	127.0	45	9.18	8.62	16.35	0.0232	0.0723	0.0073	6.03	0.07	< 0.5	4.86	< 5	70	< 0.5	4	3.5	0.5
00-149-364	1388	294	590	147.5	43	8.99	9.02	17.40	0.0133	0.0671	0.0075	6.31	0.04	< 0.5	4.76	10	30	< 0.5	6	3.4	< 0.5
00-149-365	1388	226	570	85.5	71	15.25	5.96	8.51	0.0228	0.0584	0.0047	4.17	0.06	< 0.5	8.06	5	140	< 0.5	< 2	4.8	< 0.5
00-149-366	1388	294	155	31.5	7	14.85	7.88	5.62	0.0082	0.0226	0.0041	5.51	0.05	< 0.5	7.87	< 5	250	< 0.5	< 2	4.4	< 0.5
00-149-367	1388	226	2300	145.0	270	18.05	7.26	7.64	0.1235	0.1350	0.0060	5.08	0.38	< 0.5	9.56	< 5	120	< 0.5	< 2	5.9	< 0.5
00-149-368	1388	276	960	114.5	69	17.95	5.95	8.95	0.0391	0.0840	0.0050	4.16	0.10	< 0.5	9.50	< 5	70	< 0.5	< 2	6.1	< 0.5
00-149-369	1388	276	1350	183.0	52	18.20	5.66	8.29	0.0417	0.1460	0.0059	3.96	0.19	< 0.5	9.62	< 5	70	< 0.5	< 2	6.3	< 0.5
00-149-370	1388	276	1190	157.0	90	18.25	5.58	8.34	0.0466	0.1095	0.0051	3.90	0.17	< 0.5	9.67	< 5	60	< 0.5	< 2	6.2	< 0.5
00-149-371	1388	226	1280	220	91	18.95	5.05	7.43	0.0438	0.0921	0.0045	3.53	0.15	< 0.5	10.04	< 5	80	< 0.5	< 2	6.4	< 0.5
00-149-372	1388	276	1320	269	115	17.75	5.66	8.71	0.0891	0.1250	0.0056	3.96	0.30	< 0.5	9.39	< 5	60	< 0.5	< 2	6.1	< 0.5
00-149-373	1388	276	580	131.5	36	7.10	9.61	17.50	0.0223	0.0729	0.0082	6.72	0.07	< 0.5	3.76	5	30	< 0.5	6	3.3	0.5
00-149-374	1388	226	100	19.5	15	15.05	8.09	4.00	0.0231	0.0138	0.0033	5.66	0.13	< 0.5	7.97	< 5	280	< 0.5	2	3.7	< 0.5
00-149-375	1388	294	540	62.0	20	14.00	7.42	9.10	0.0154	0.0540	0.0049	5.19	0.05	< 0.5	7.41	< 5	140	< 0.5	< 2	4.7	< 0.5
00-149-376	1388	276	780	107.0	44	11.15	8.84	13.85	0.0269	0.0722	0.0073	6.18	0.14	< 0.5	5.89	< 5	40	< 0.5	6	4.4	0.5
00-149-377	1388	294	410	99.5	19	9.09	9.75	15.85	0.0113	0.0571	0.0074	6.82	0.05	< 0.5	4.81	< 5	30	< 0.5	4	3.7	0.5
00-149-378	1388	226	155	22.5	27	17.70	6.78	8.37	0.0339	0.0316	0.0048	4.74	0.09	< 0.5	9.36	< 5	60	< 0.5	< 2	6.7	< 0.5
00-149-379	1388	276	420	81.0	30	11.65	9.51	15.30	0.0191	0.0570	0.0073	6.65	0.07	< 0.5	6.17	< 5	30	< 0.5	2	4.7	< 0.5

CERTIFICATION: \_\_\_\_\_ +





# ALS Chemex

Aurora Laboratory Services Ltd.  
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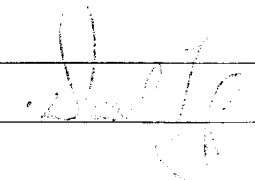
To: LAC DES ILES MINES LTD.-EXPLORATION  
 NORTH AMERICAN PALLADIUM  
 P.O. BOX 10547  
 THUNDER BAY, ON  
 P7B 6T9

Page Number : 2-A  
 Total Pages : 2  
 Certificate Date: 20-AUG-2001  
 Invoice No. : 10122353  
 P.O. Number : 1000199  
 Account : MZI

Project : #1033-00-149  
 Comments: ATTN: MOE LAVIGNE

## CERTIFICATE OF ANALYSIS A0122353

SAMPLE	PREP		Pd ppb	Pt ppb	Au ppb	Al2O3	Fe2O3	MgO	Cu %	Ni %	Co %	Fe %	S %	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm
	CODE		ICP-MS	ICP-MS	ICP-MS	% Calc	% Calc	% Calc	calc.	calc.	calc.	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)
00-149-380	1388	276	390	101.0	17	7.92	9.38	17.60	0.0084	0.0645	0.0077	6.56	0.03	< 0.5	4.19	5	20	< 0.5	6	3.3	< 0.5
00-149-381	1388	276	530	184.0	19	8.73	8.66	15.30	0.0178	0.0584	0.0071	6.06	0.05	< 0.5	4.62	< 5	30	< 0.5	2	3.6	< 0.5
00-149-382	1388	276	360	78.0	14	16.80	6.56	9.77	0.0119	0.0370	0.0048	4.59	0.03	< 0.5	8.90	< 5	40	< 0.5	< 2	6.2	< 0.5
00-149-383	1388	276	290	65.0	31	14.95	6.86	9.60	0.0203	0.0418	0.0051	4.80	0.08	< 0.5	7.92	< 5	30	< 0.5	< 2	5.8	< 0.5
00-149-384	1388	276	93	28.0	15	16.85	6.36	9.95	0.0136	0.0373	0.0049	4.45	0.05	< 0.5	8.91	< 5	50	< 0.5	< 2	6.6	< 0.5
00-149-385	1388	276	450	82.0	36	16.05	6.58	9.12	0.0252	0.0483	0.0050	4.60	0.06	< 0.5	8.50	< 5	90	< 0.5	< 2	5.9	< 0.5
00-149-386	1388	276	670	161.0	34	14.90	7.13	10.65	0.0246	0.0548	0.0053	4.99	0.07	< 0.5	7.88	< 5	70	< 0.5	< 2	5.1	< 0.5
00-149-387	1388	294	590	84.0	54	16.70	6.52	9.32	0.0392	0.0496	0.0048	4.56	0.15	< 0.5	8.85	< 5	120	< 0.5	< 2	5.8	< 0.5
00-149-STA-213	2143	285	3200	305	380	16.15	6.65	9.90	0.1245	0.1360	0.0065	4.65	0.37	< 0.5	8.54	< 5	50	< 0.5	< 2	5.7	< 0.5

CERTIFICATION:  +



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 THUNDER BAY, ON  
 P7B 6T9

Page Number :1-B  
 Total Pages :2  
 Certificate Date: 20-AUG-2001  
 Invoice No. : 10122386  
 P.O. Number : 1000202  
 Account : MZI

Project : #1033-00-149  
 Comments: ATTN: MOE LAVIGNE

## CERTIFICATE OF ANALYSIS A0122386

SAMPLE	PREP CODE	Cr ppm (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	P ppm (ICP)	Pb ppm (ICP)	Sb ppm (ICP)	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)	Cu ppm (ICP)	Ni ppm (ICP)	Co ppm (ICP)
00-149-388	1388 276	77	1.23	2.71	570	< 1	2.44	1170	12	< 5	904	0.32	95	< 10	36	98	117	29
00-149-389	1388 226	94	0.38	4.80	720	< 1	1.42	30	2	< 5	207	0.05	83	< 10	32	84	339	38
00-149-390	1388 276	112	0.28	5.75	995	1	1.29	30	2	< 5	169	0.08	123	10	48	482	661	57
00-149-391	1388 276	106	0.31	5.37	840	6	1.40	30	< 2	< 5	191	0.06	86	< 10	42	508	582	50
00-149-392	1388 276	115	0.29	4.93	800	< 1	1.41	20	< 2	< 5	177	0.06	85	10	36	522	655	50
00-149-393	1388 276	85	0.26	4.68	735	1	1.42	10	2	< 5	188	0.06	91	< 10	34	462	570	47
00-149-394	1388 276	122	0.44	4.60	760	< 1	1.47	10	2	< 5	193	0.06	82	< 10	36	685	807	53
00-149-395	1388 276	267	0.32	6.57	1020	1	1.07	50	2	< 5	157	0.05	93	< 10	52	180	392	57
00-149-396	1388 276	499	0.22	6.18	930	< 1	0.96	10	< 2	< 5	135	0.05	85	10	48	103	323	50
00-149-397	1388 276	294	0.21	6.37	935	< 1	1.08	10	20	< 5	152	0.05	84	< 10	58	161	394	52
00-149-398	1388 276	174	0.20	5.98	1020	< 1	1.20	30	2	< 5	151	0.09	126	< 10	60	1060	693	62
00-149-399	1388 226	98	0.19	4.87	860	< 1	1.79	10	< 2	< 5	232	0.08	119	< 10	44	205	289	44
00-149-400	1388 294	174	0.22	5.79	920	< 1	1.31	10	< 2	< 5	173	0.06	102	< 10	48	220	465	53
00-149-401	1388 276	299	0.14	7.27	1110	< 1	0.95	< 10	< 2	< 5	137	0.06	98	< 10	60	384	567	64
00-149-402	1388 294	320	0.25	6.83	1005	1	0.94	10	< 2	< 5	111	0.06	90	10	54	137	438	58
00-149-403	1388 276	562	0.20	9.59	1235	1	0.44	< 10	< 2	< 5	56	0.07	115	< 10	66	459	812	78
00-149-404	1388 294	110	0.30	3.84	625	< 1	1.62	10	< 2	< 5	214	0.05	70	< 10	28	590	574	40
00-149-405	1388 276	124	0.35	4.37	715	2	1.45	10	4	< 5	175	0.05	72	< 10	32	412	475	41
00-149-406	1388 276	69	0.28	2.69	420	3	1.68	10	4	< 5	240	0.04	44	< 10	22	964	908	38
00-149-407	1388 276	77	0.30	2.98	475	< 1	1.56	10	4	< 5	224	0.04	56	< 10	22	727	620	34
00-149-408	1388 276	54	0.26	2.40	400	< 1	1.65	10	4	< 5	233	0.04	46	< 10	20	1255	856	38
00-149-409	1388 276	93	0.69	2.63	465	1	1.94	430	2	< 5	516	0.11	56	< 10	28	589	508	30
00-149-410	1388 276	58	0.26	3.21	535	< 1	1.55	10	6	< 5	229	0.04	56	< 10	28	618	517	36
00-149-411	1388 276	98	0.40	4.20	665	1	1.61	30	2	< 5	214	0.06	64	< 10	36	491	511	39
00-149-412	1388 294	126	0.48	4.45	720	< 1	1.51	40	4	< 5	174	0.07	80	< 10	38	522	604	45
00-149-413	1388 294	93	0.28	3.50	565	< 1	1.62	10	4	< 5	229	0.04	57	< 10	28	745	768	40
00-149-414	1388 226	107	0.33	4.24	655	< 1	1.40	10	2	< 5	184	0.05	72	< 10	32	442	442	38
00-149-415	1388 276	71	0.43	3.15	495	< 1	1.66	10	8	< 5	252	0.04	53	< 10	26	1045	762	38
00-149-416	1388 276	155	0.91	4.87	725	< 1	1.47	300	2	< 5	327	0.10	76	< 10	38	206	684	44
00-149-417	1388 226	148	0.95	5.50	800	< 1	1.40	170	< 2	< 5	274	0.08	82	10	50	273	694	46
00-149-418	1388 294	276	1.29	4.18	740	< 1	2.35	1160	2	< 5	991	0.27	93	< 10	56	119	263	34
00-149-419	1388 294	133	0.75	5.39	800	1	1.24	30	10	5	194	0.06	78	< 10	40	370	556	54
00-149-420	1388 276	146	0.42	6.02	900	< 1	1.12	20	< 2	< 5	134	0.06	87	< 10	42	400	686	53
00-149-421	1388 276	174	0.27	5.99	860	7	1.01	10	< 2	< 5	131	0.05	81	< 10	38	458	616	50
00-149-422	1388 276	118	0.22	5.94	975	1	0.91	40	< 2	< 5	140	0.09	109	< 10	46	372	599	54
00-149-423	1388 276	128	0.27	5.12	765	< 1	1.28	40	< 2	< 5	177	0.10	97	< 10	38	473	706	49
00-149-424	1388 294	111	0.19	5.26	755	1	1.22	10	4	< 5	191	0.05	79	10	34	661	620	47
00-149-425	1388 294	47	0.19	2.11	370	< 1	1.43	10	8	< 5	231	0.04	54	< 10	20	1550	713	38
00-149-426	1388 226	53	0.18	2.55	415	< 1	1.60	50	6	< 5	222	0.04	48	< 10	18	170	306	21
00-149-427	1388 226	52	0.17	3.38	485	< 1	1.27	20	4	< 5	195	0.04	54	< 10	22	476	516	32

CERTIFICATION: \_\_\_\_\_ +



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Project : #1033-00-149  
 Comments: ATTN: MOE LAVIGNE

## CERTIFICATE OF ANALYSIS A0122386

SAMPLE	PREP CODE		Pd ppb	Pt ppb	Au ppb	Al2O3	Fe2O3	MgO	Cu %	Ni %	Co %	Fe %	S %	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm
	ICP-MS	ICP-MS	ICP-MS	% Calc	% Calc	% Calc	calc.	calc.	calc.	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)
00-149-428	1388	294	990	116.5	17	22.2	3.99	5.22	0.0499	0.0744	0.0033	2.79	0.22	< 0.5	11.76	5	70	< 0.5	< 2	8.1	< 0.5
00-149-STA-215	2143	2285	3100	270	320	15.25	6.19	9.50	0.1180	0.1265	0.0062	4.33	0.33	< 0.5	8.08	< 5	50	< 0.5	< 2	5.6	0.5

CERTIFICATION: \_\_\_\_\_ +

# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.

LAC DES ILES MINES LTD.

<b>PROPERTY:</b>	LAC DES ILES	<b>CLAIM NUMBER:</b>	253	<b>DOWNHOLE SURVEY METHOD:</b>	Maxibor	<b>DRILLING COMPANY:</b>	CHIBOUGAMAU									
<b>HOLE NO.:</b>	00-150	<b>LENGTH: (m)</b>	1050 m	<b>CORE SIZE:</b>	NQ	<b>DEPTH</b>	DIP	<b>AZM</b>	DEPTH	DIP	<b>AZM</b>	<b>REMARKS:</b>	Core stored at Lac des Iles mine site			
<b>LOCATION - MINE GRID</b>		<b>NORTHING:</b>	32129.508	<b>EASTING:</b>	32553.719								Original hole started Nov. 21/00 and resumed drilling commenced July 19/02			
<b>SECTION:</b>	508N	<b>ZONE:</b>	Roby	<b>ELEVATION:</b>	505.146							<b>DATE LOGGED:</b>	Dec. 18, 2000			
<b>COLLAR ORIENTATION (AZIMUTH / DIP);</b>	PLANNED:	250/-52°	<b>SURVEYED:</b>	246.143/-50.551°								<b>LOGGED:</b>	K. Nelson	<b>SIGNATURE:</b>		
<b>HOLE STARTED:</b>	21-Nov-00	<b>HOLE FINISHED:</b>	25-Jul-01	<b>MAG DECLINATION:</b>	2.1° w							<b>B.Nelson-J.Rickard</b>	<b>SHEET</b>	1	<b>OF</b>	33

METERAGE		DESCRIPTION	Rock Code	SAMPLES					ASSAYS										
FROM	TO			Alt <sup>n</sup>		Bx Matrix		No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
				Plag	Pxr	Comp	Prop <sup>r</sup>												
0.00	3.60	<b>OVERBURDEN</b>																	
3.60	30.00	<b>COARSE GRAINED GABBRONORITE</b>  Dark greyish-green to brownish-green. Coarse grained to locally medium grained. Unit has a very uneven, blotchy appearance due to differential plag concentrations and highly variable alteration. Approximately equal plag and pyroxene with 45-55% plag, 20-40% Cpx and 10-35% Opx (as both brown/fresh variety and as tremolite). Alteration is highly variable, from weak to intense where pyroxene grain outlines are indistinguishable to streaky. Weak to strong actinolite and tremolite alterations. Plag varies from fresh/white to moderate purplish-pink potassic altered to stained dark brownish-pink. Weakly mottled by mafic, healed, hairline fractures. Moderately mottled by 10% leuco sections where plag is 65-80% and may be gneissic separation. Grades through ~10% sections of norite where Opx is fresh/brown and Cpx <10%. Norite is especially prevalent in 18.00 - 25.00m. Essentially nil sulphide.  27.00m - 30.00m: Gradational section between this unit and the lower one. Grades in and out of gabbronorite and melanogabbronorite.																	
			2/3	3/4			001	3.60	6.00	2.40			0.17	0.05	0.00	0.003	0.009	0.002	
			2/3	3			002	6.00	9.00	3.00			0.25	0.06	0.00	0.003	0.012	0.003	
			2/3	3/4			003	9.00	12.00	3.00			0.19	0.03	0.00	0.003	0.008	0.002	
			2/3	2/3			004	12.00	15.00	3.00			0.07	0.02	0.01	0.004	0.007	0.001	
			2/3	2/3			005	15.00	18.00	3.00			0.09	0.02	0.01	0.005	0.006	0.001	
			3	2/3			006	18.00	21.00	3.00			0.09	0.02	0.01	0.005	0.008	0.002	
			2/3	2/3			007	21.00	24.00	3.00			0.08	0.02	0.02	0.005	0.010	0.002	
			2/3	2/3			008	24.00	27.00	3.00			0.12	0.03	0.01	0.004	0.011	0.003	
			2/3	2/3			009	27.00	30.00	3.00			0.13	0.01	0.00	0.002	0.010	0.003	



52H04NE2019 2.24642 LAC DES ILES 050



# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-150

LOGGED BY: K. Nelson SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>				SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
40.02	47.82	<b>INTERMEDIATE PORPHYRY DIKE (continued)</b>  Sharp upper contact is very wavy and irregular but sharp. Lower contact is sharp at 45° to core axis.																
47.82	58.20	<b>COARSE GRAINED WEBSTERITE</b>  Dark greyish-green. Coarse grained and fairly uniform and dense looking. Similar to 30.00-40.02 except that plag has decreased enough through most of it to be a pyroxene/websterite. Plag=5-10%, Cpx=65-80%, Opx (mostly as tremolite)=10-20%. Tremolite is moderately indistinguishable in some sections but it may be obscured by the pervasive, silvery, interstitial talc through-out. Locally, there is 5% yellowy-green, anhedral olivine (or epidote?) crystals. Occasional felsic dikelet and weakly mottled by white, calcareous, healed fractures and locally, fractures have minor clay. Only trace to 0.25% fine grained disseminated pyrite. Locally plag increases enough so that it is a gabbronorite with 10-25% plag. This includes the last section of 57.00-58.20m.	3	3			017	47.82	51.00	3.18	0.25		0.09	0.02	0.01	0.003	0.019	0.004
			3	3			018	51.00	54.00	3.00	tr		0.09	0.03	0.00	0.004	0.015	0.003
			3	3			019	54.00	57.00	3.00	tr		0.10	0.03	0.00	0.003	0.013	0.003
			2/3	3			020	57.00	58.00	1.00	tr		0.09	0.03	0.00	0.002	0.011	0.003
58.20	183.00	58.22m: <b>COARSE GRAINED NORITE</b>  Dark greenish-brown. Coarse grained and fairly equigranular and uniform. Roughly equal plag and pyroxenes with 45-55% Plag, 45-55% Opx and 0-10% Cpx. There is weak actinolite and tremolite alteration with most Opx as the fresh/brown variety. Plag is pervasively stained brownish-pink. Occasional felsic dikelet up to 5cm thick. Weakly mottled by hairline, white, randomly oriented, Sharp lower contact at 70° to core axis.	3	2			021	58.20	60.00	1.80			0.13	0.04	0.00	0.003	0.007	0.002
			3	2			022	60.00	63.00	3.00			0.08	0.02	0.00	0.003	0.007	0.002
			3	2			023	63.00	66.00	3.00	tr	1:1	0.11	0.04	0.00	0.006	0.005	0.001
			3	2			024	66.00	69.00	3.00	tr	1:1	0.08	0.02	0.01	0.006	0.005	0.001
			3	2			025	69.00	72.00	3.00			0.09	0.03	0.01	0.007	0.006	0.001
			3	2			026	72.00	75.00	3.00	tr	1:1	0.08	0.03	0.01	0.008	0.006	0.001
			3	2/3			027	75.00	78.00	3.00	tr	2:1	0.08	0.01	0.00	0.007	0.010	0.002
			3	2			028	78.00	79.38	1.38			0.09	0.03	0.01	0.007	0.008	0.002
			3	2/3			029	79.38	81.00	1.62			0.10	0.02	0.01	0.006	0.008	0.002

## DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.

LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-150

LOGGED BY: K. Nelson

SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>				SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Bx Matrix		No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
					Com	Prop												
58.20	183.00	<b>COARSE GRAINED NORITE (continued)</b>	3	2/3			030	81.00	84.00	3.00	tr	1:1	0.06	0.02	0.00	0.005	0.015	0.003
		calcareous fractures which sometimes have dark green, serpentine coatings. Mineralization varies from nil to trace pyrite or up to 0.25% chalcopyrite/pyrrhotite as fine grained, tiny blebs.	3	2/3			031	84.00	87.00	3.00	tr	2:1	0.09	0.02	0.00	0.008	0.010	0.002
		74.64m - 75.37m: Very fine grained to fine grained, greenish black, non-magnetic diabase dike. Sharp upper contact at 30° to core axis and sharp lower contact at 25° to core axis.	3	2/3			032	87.00	90.00	3.00	tr	1:1	0.06	0.02	0.00	0.005	0.009	0.002
		79.38m - 90.00m: Grades through 50% sections of melanonorite which have 20-35% plag and are a darker greyish-green to brownish-green colour. Opx appears to be part-way altered to tremolite and has a brownish-grey colour. Blacker look to core may be due to a slight increase in Cpx and may be locally a melanogabbro. Plag is stained a light green colour in these sections. Locally, there is <5% muscovite(?).	3	2			033	90.00	93.00	3.00	tr	2:1	0.09	0.03	0.00	0.009	0.008	0.001
		87.09m - 87.53m: Aphanitic, mottled quartz-plag dike. Locally mottled by reddish-orange hematite along fractures. Sharp upper contact at 50° to core axis and sharp lower contact at 30° to core axis.	3	2			034	93.00	96.00	3.00	tr	1:1	0.08	0.04	0.00	0.008	0.008	0.001
		96.00m - 114.70m: Grades through 30-40% melanonorite as per 79.38 - 90.00m. Fairly sharp lower contact to this section at 55° to core axis.	3	2/3			035	96.00	99.00	3.00	tr	1:1	0.27	0.03	0.01	0.019	0.017	0.003
		135.00m - 150.00m: Grades through 25% melanonorite as per 79.38 - 90.00m description.	3	2/3			036	99.00	102.00	3.00	tr	2:1	0.16	0.04	0.01	0.007	0.011	0.002
		141.00m-141.37m: Leucogabbro dike with sharp contacts at 20-25° to core axis.	3	2/3			037	102.00	105.00	3.00	tr	1:1	0.27	0.05	0.01	0.009	0.009	0.002
			3	2/3			038	105.00	108.00	3.00	tr	2:1	0.24	0.05	0.01	0.010	0.012	0.002
			3	2/3			039	108.00	111.00	3.00			0.12	0.05	0.01	0.007	0.011	0.002
			3	2/3			040	111.00	114.00	3.00			0.09	0.03	0.01	0.008	0.011	0.002
			3	2/3			041	114.00	114.70	0.70	tr	2:1	0.11	0.04	0.01	0.007	0.009	0.002
			3	2			042	114.70	117.00	2.30			0.14	0.04	0.01	0.013	0.007	0.001
			3	2			043	117.00	120.00	3.00	tr	1:1	0.10	0.02	0.01	0.012	0.008	0.001
			3	2			044	120.00	123.00	3.00	tr	1:1	0.08	0.03	0.00	0.007	0.007	0.001
			3	2			045	123.00	126.00	3.00	tr	1:1	0.09	0.02	0.00	0.007	0.005	0.001
			3	2			046	126.00	129.00	3.00	tr	1:1	0.07	0.02	0.00	0.007	0.008	0.002
			3	2			047	129.00	132.00	3.00	tr	2:1	0.08	0.03	0.01	0.007	0.006	0.001
			3	2/3			048	132.00	135.00	3.00			0.08	0.03	0.00	0.006	0.009	0.002
			3	2/3			049	135.00	138.00	3.00	0.25	1:1	0.08	0.03	0.00	0.007	0.012	0.002
			3	2/3			050	138.00	141.00	3.00	tr		0.07	0.03	0.00	0.004	0.019	0.004
			3	2/3			051	141.00	144.00	3.00	tr	1:1	0.08	0.03	0.00	0.007	0.014	0.003
			3	2/3			052	144.00	147.00	3.00	tr	2:1	0.08	0.03	0.00	0.008	0.010	0.001
			3	2/3			053	147.00	150.00	3.00	tr	1:1	0.07	0.02	0.00	0.006	0.012	0.002
			3	2			054	150.00	153.00	3.00	tr	2:1	0.08	0.03	0.00	0.005	0.009	0.002
			3	2			055	153.00	156.00	3.00	tr	1:1	0.08	0.02	0.00	0.005	0.013	0.001
			3	2			056	156.00	159.00	3.00			0.09	0.04	0.00	0.004	0.010	0.001
			3	2			057	159.00	162.00	3.00	tr	1:1	0.09	0.04	0.00	0.004	0.007	0.001
			3	2			058	162.00	163.79	1.79			0.10	0.03	0.00	0.004	0.011	0.001

# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-150

LOGGED BY: K. Nelson SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	NI %	Co %
58.20	183.00	<b>COARSE GRAINED NORITE (continued)</b>																
		148.84m - 149.06m: Mottled quartz-plag dike with 10% greenish-black hornblende (?). Sharp upper contact at 45° to core axis and sharp lower contact at an average of 60° to core axis.	3	2/3			059	163.79	165.00	1.21			0.09	0.03	0.00	0.009	0.013	0.002
			3	2/3			060	165.00	168.00	3.00	tr	1:1	0.09	0.03	0.00	0.007	0.023	0.002
			3	2/3			061	168.00	171.00	3.00	0.25	1:3	0.10	0.04	0.01	0.011	0.013	0.002
			3	2/3			062	171.00	174.00	3.00		1:3	0.09	0.02	0.01	0.011	0.016	0.002
			3	2/3			063	174.00	177.00	3.00	tr	1:1	0.09	0.03	0.00	0.006	0.010	0.002
			3	2/3			064	177.00	179.75	2.75	0.25	2:1	0.11	0.03	0.01	0.009	0.011	0.002
		163.99m - 179.75m: Grades through 20% melanonorite as per description 79.38 - 90.00m.	3	2/3			065	179.75	181.25	1.50	tr		0.11	0.05	0.01	0.009	0.011	0.002
		179.75m - 183.00m: Core is variably gabbroic and norite as brown Opx decreases and occurs down to as low as 10%. Tremolite is occasionally visible but may be partly lost in the alteration. Plag is 30-45% and pyroxenes are 55-70%. Moderate to strong actinolite with grain outlines moderately indistinguishable. Gradual to fairly abrupt contacts with sections where brown Opx is up to 40% (norite).	3	2/3			066	181.25	183.00	1.75	tr	1:1	0.11	0.02	0.01	0.007	0.015	0.003
		183.00m: Sharp lower contact at average of 45° to core axis.																
183.00	191.41	<b>COARSE GRAINED PYROXENITE/MELANOGABBRO</b>																
		Dark greenish grey, equigranular to slightly mottled looking pyroxenite with 25-30% melanogabbro, varying with Plag content. Plag=5-20% and pyroxene=80-95%. Pyroxenes appear to be mainly Cpx but moderate to strong alteration may obscure any tremolite/Opx. Moderate to strong actinolite and fine grained, silvery, talc common. Moderately mottled by greenish-beige hairline fractures to narrow shears which are at various orientations to core axis to locally brecciating. They also have +/- clay and or clacite. Only trace disseminated fine grained pyrite.	3	3/4			067	183.00	186.00	3.00	tr		0.12	0.04	0.01	0.011	0.018	0.004
			3	3/4			068	186.00	189.00	3.00	tr		0.09	0.03	0.00	0.007	0.017	0.003
			3	3/4			069	189.00	191.41	2.41	tr		0.07	0.00	0.00	0.008	0.013	0.003



# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-150

LOGGED BY: K. Nelson SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup> Bx Matrix				SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
183.00	191.41	<p><b>COARSE GRAINED PYROXENITE/MELANOGABBRO (continued)</b></p> <p>188.02m - 188.23m: Moderately green, fault zone which includes 0.5 to at least 2cm thick clay fault gouge. Wavy laminations at various orientations. Sharp upper contact at 30° to core axis and sharp but very wavy lower contact averaging 15° to core axis.</p> <p>188.23m - 188.81m and 189.15m- 189.53m: dark greyish-green, very fine grained, non-magnetic microgabbro dikes. Sharp lower contact to first dike at 25-30° to core axis and sharp contacts to lower dike at 45-50° to core axis.</p> <p>190.98m - 191.41m: Fine grained anorthosite dike with 10-15% greenish-black, altered hornblende (?). Patchy white and moderate to light orange due to potassic alteration of plag. Sharp upper contact at 70° to core axis and sharp lower contact at 70° to core axis.</p>																
191.41	200.58	<p><b>COARSE GRAINED NORITE</b></p> <p>Dark greenish-brown. Coarse grained, equigranular and uniform. Same norite as that in 58.20m- 183.00m. Approximately equal plag and pyroxene with 45-55% plag, 40-50% Opx and 0-10% Cpx. Actinolite and tremolite alteration are weak with most Opx as the fresh brown variety. Plag is pervasively stained brownish pink. Grades through 5-10% short (&lt;20cm) sections where Opx is as tremolite and core is melanonorite to norite. Rare felsic patch and dikelet &lt;1cm thick. Weakly mottled by mafic, hairline, healed fractures at various orientations to core axis which have +/- dark green serpentine and alteration. Generally nil mineralization with the rare trace disseminated fine grained chalcopyrite/pyrrhotite.</p>	3	2			070	191.41	193.13	1.72	tr	1:1	0.09	0.04	0.03	0.011	0.016	0.003
			3	2			071	193.13	195.00	1.87			0.09	0.03	0.02	0.009	0.014	0.002
			3	2			072	195.00	198.00	3.00			0.11	0.03	0.00	0.006	0.009	0.001
			3	2			073	198.00	200.58	2.58			0.11	0.03	0.00	0.006	0.007	0.001

# DIAMOND DRILL CORE LOGGING SHEETS

North American **Palladium Ltd.**  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-150

LOGGED BY: K. Nelson SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>				SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
191.41	200.58	<b>COARSE GRAINED NORITE (continued)</b>																
		200.58m: Sharp lower contact at 55-60° to core axis.																
200.58	225.87	<b>HETEROLITHIC BRECCIA</b>																
		Unit is composed of short (3-200cm) sections of various lithologies. No one lithology predominates. They include gabbro-norite (with Opx variable from fresh/brown to tremolite) as medium to coarse grained equigranular to varitextured; brown norite similar to the above unit; gabbro varying from very coarse grained pyroxene porphyritic (probably includes some late stage dikelets) to varitextured to coarse grained equigranular. Rarely there is leucogabbro clasts which have the "notched" texture to pyroxenes. Alteration is also highly variable from weak actinolite and tremolite where grain outlines are well formed to strong actinolite and tremolite where grain outlines are indistinguishable and locally "smeared". Plag varies from very fresh and white to strongly purplish-pink (potassic) altered. At first, there is no dominant matrix with the unit just a jumble of lithologies. At 220.53m, the various lithologies become brecciated by a very fine grained gabbro-norite which is a brownish-green colour. Type of pyroxene not readily distinguishable but brown tint probably indicated Opx is present. Contacts to matrix are sharp and very wavy to interfingering. Mineralization throughout is variable but generally fairly strong with usually 0.5-2% chalcopyrite and pyrrhotite, generally with more pyrrhotite.																
			2/4	2/4			074	200.58	202.03	1.45	1.00	1:3	0.28	0.05	0.08	0.089	0.040	0.003
			2/4	2/4			075	202.03	204.00	1.97	0.50	1:4	0.14	0.02	0.04	0.042	0.022	0.002
			2/4	2/4			076	204.00	207.00	3.00	0.75	1:4	0.14	0.03	0.03	0.043	0.017	0.002
			2/4	2/4			077	207.00	210.00	3.00	2.00	1:5	0.16	0.03	0.05	0.097	0.046	0.005
			2/4	2/4			078	210.00	213.00	3.00	1.00	1:4	0.07	0.01	0.02	0.034	0.021	0.003
			2/4	2/4			079	213.00	216.00	3.00	0.50	2:1	0.10	0.03	0.01	0.023	0.015	0.003
			2/4	2/4			080	216.00	219.00	3.00	0.50	1:2	0.30	0.06	0.04	0.038	0.024	0.003
			2/4	2/4			081	219.00	220.53	1.53	tr	1:1	0.13	0.03	0.01	0.014	0.019	0.004
			2/4	2/4	Gab	50	082	220.53	222.00	1.47	3.00	1:4	0.48	0.13	0.14	0.199	0.090	0.006
			2/4	2/4	Gab	50	083	222.00	225.00	3.00	3.00	1:4	0.48	0.09	0.08	0.143	0.116	0.007
			3	3	Gab	100	084	225.00	225.87	0.87	1.00	2:1	0.51	0.08	0.18	0.149	0.124	0.008

# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.

LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-150

LOGGED BY: K. Nelson SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>				SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
200.58	225.87	<p><b>HETEROLITHIC BRECCIA</b></p> <p>Mineralization is blebby interstitial to locally concentrated along fractures and occurs in all the lithologies. Mineralization increases to 3% in the sections with the very fine grained gabbro matrix and it occurs in the matrix often localized along fractures.</p> <p>225.87m: Sharp upper contact at the last section of gabbro matrix is wavy.</p>																
225.87	256.37	<p><b>ALTERED, VARITEXTURED GABBRO (Weak breccia)</b></p> <p>Moderate greyish-green mottled purple. Variable grain size from fine grained to very coarse grained and from equigranular to pyroxene porphyritic. Moderate varitexture with grain sizes and textures grading in and out rather than the abrupt changes over cm's in a well developed varitextured unit. Roughly equal plag and pyroxenes with 45-55% plag, 45-55% Cpx and &lt;5% tremolite which locally increases to 10%. Strong actinolite and tremolite alteration with plag weak to moderate purplish-pink (potassic) altered mottled with fairly fresh/white plag. Approximately 1/2 of the pyroxene grain outlines are indistinguishable to locally streaked. Weakly mottled by mafic, hairline, healed fractures and the occasional brownish (biotite) altered felsic dikelet up to 10cm thick. Non-magnetic except where pyrrhotite is present or the local, up to 10%, fine grained black magnetite. Mineralization is variable with fine grained pyrite and chalcopyrite/pyrrhotite throughout as disseminated,</p>																
			2/3	3/4			085	225.87	228.00	2.13	0.25	2:1	0.43	0.08	0.11	0.135	0.078	0.006
			2/3	3/4			086	228.00	231.00	3.00	0.25	2:1	0.52	0.09	0.15	0.179	0.070	0.005
			2/3	3/4			087	231.00	234.00	3.00	0.25	1:1	0.10	0.02	0.04	0.049	0.018	0.003
			2/3	3/4			088	234.00	237.00	3.00	0.25	2:1	0.08	0.02	0.03	0.047	0.018	0.004
			2/3	3/4	Gab	20	089	237.00	240.00	3.00	0.50	1:4	0.13	0.02	0.03	0.066	0.033	0.004
			2/3	3/4	Gab	40	090	240.00	243.00	3.00	0.25	1:3	0.16	0.03	0.02	0.030	0.030	0.004
			2/3	3/4			091	243.00	246.00	3.00	0.75	3:1	0.18	0.03	0.02	0.028	0.030	0.004
			2/3	3/4			092	246.00	249.00	3.00	0.50	2:1	1.22	0.22	0.04	0.162	0.354	0.018
			2/3	3/4			093	249.00	252.00	3.00	0.50	1:1	0.17	0.03	0.03	0.047	0.018	0.003
			2/3	3/4	Gab	40	094	252.00	255.00	3.00	0.50	1:5	0.27	0.04	0.06	0.111	0.071	0.005
			3	3/4	Gab	10	095	255.00	256.37	1.37	2.00	1:4	0.81	0.13	0.29	0.499	0.272	0.014

## DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.  
LAC DES ILES MINES LTD.PROPERTY LDI ZONE Roby HOLE # 00-150LOGGED BY: K. Nelson

SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup> Bx Matrix				SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
225.87	256.37	<b>ALTERED, VARITEXTURED GABBRO (Weak breccia) (continued)</b>  localized concentrations of disseminations, and as large large blebs up to 5% over 15cm. It also cocurs as blebs up to 1.5cm long along fractures. 237.00m - 243.00m: Brecciated by ~30% fine to medium grained gabbro in sections 0.15 to 1.25m long. 245.20m: Start getting sections of core that are flooded with sulphide up to 20% pyrite and 10% chalcopyrite/pyrrhotite. These sections have sharp contacts with the adjacent lesser to non-mineralized sections but in general, the contacts do not mark a change in rock, only in sulphide content. Contacts are wavy to interfingering. There are also fractures filled with fine grained pyrite up to 5mm thick and often at 45-50° to core axis. 252.00m - 256.37m: Another section brecciated by fine grained gabbro with sharp but wavy contacts. 256.37m: Sharp lower contact at 50° to core axis and marked by a 0.5-1.5 cm thick quartz-mafic-pyrite laminated dikelet.																
256.37	463.24	<b>ALTERED MEDIUM TO COARSE GRAINED, MAGNETIC GABBRO</b>  Moderately greyish-green, mottled purple. Medium to coarse grained except that medium grained sections may be partly apparent due to the intense alteration. Distinctive from the above unit in that it is moderately equigranular and massive and does not have the varitexture. Approximately equal plag and pyroxene with 45-55% plag and 45-55% pyroxene which appears to be mostly Cpx with <5% tremolite but some tremolite	3	2/3			096	256.37	258.53	2.16	tr	2:1	0.39	0.07	0.11	0.132	0.130	0.010
			3	3/4			097	258.53	261.17	2.64	0.25	1:1	0.09	0.01	0.01	0.019	0.018	0.005
			3	2			098	261.17	264.00	2.83	tr	1:1	0.05	0.01	0.01	0.012	0.012	0.003
			3	2			099	264.00	267.00	3.00	tr	1:1	0.07	0.02	0.01	0.012	0.012	0.003
			3	2			100	267.00	269.04	2.04	tr	1:1	0.09	0.02	0.01	0.007	0.018	0.004
			3	3/4			101	269.04	270.00	0.96	tr		0.06	0.01	0.01	0.009	0.013	0.004
			3	3/4			102	270.00	273.30	3.30	tr	1:1	0.09	0.02	0.01	0.004	0.009	0.003
			2/3	3			103	273.30	276.00	2.70	0.50		0.05	0.01	0.00	0.011	0.009	0.006
			2/3	3			104	276.00	278.58	2.58	0.50		0.02	0.00	0.00	0.011	0.007	0.005
			3	2/4			105	278.58	280.20	1.62			0.05	0.01	0.00	0.003	0.005	0.002

# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.

LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-150

LOGGED BY: K. Nelson

SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>m</sup>				Bx Matrix					SAMPLES					ASSAYS				
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %			
256.37	463.24	<b>ALTERED MEDIUM TO COARSE GRAINED, MAGNETIC GABBRO (continued)</b>																			
		may be lost in the intense alteration. Moderate to strong actinolite and tremolite alteration with many grain outlines indistinguishable to locally streaky. Plag alteration varies from strongly purplish-pink (potassic) altered to relatively fresh and white. Fine grained, silver talc often rims pyroxene grain outlines. Weakly mottled by mafic, hairline, healed fractures and by mm sized felsic dikelets. There is also the occasional leucogabbro band, <5cm thick. Variably flooded by magnetite which gives the core a mottled black appearance. Magnetite is often <10% but can occur in "beds" up to 40% and up to 75cm long. Overall, these beds make up ~20% of the unit and generally have abrupt contacts at 70-90° to core axis. Mineralization is as noted in the below sections.																			
		256.37m - 258.53m: Brecciated by ~50% fine to medium grained gabbronorite with up to 40% brown Opx. Also has localized sulphide flooding similar to above unit. May be part of above unit but included here due to the equigranular look. Well mineralization with 1% pyrite and 1% chalcopyrite/pyrrhotite as fine grained disseminated and small blebs.																			
		258.53m - 261.17m: As per initial description, 0.25% chalcopyrite/pyrrhotite.																			
		261.17m - 269.04m: Grades through a section of gabbronorite to norite with 45-55% brownish-pink stained plag, 30-50% brown Opx and 5-20% Cpx. Trace, tiny blebs of chalcopyrite/pyrrhotite.																			
			2/3	2/4			106	280.20	282.00	1.80			0.02	0.00	0.00	0.002	0.004	0.001			
			3	2/3			107	282.00	283.48	1.48	0.25	2:1	0.04	0.00	0.01	0.043	0.011	0.002			
			3	2/3			108	283.48	285.21	1.73	30.00	1:10	3.27	0.76	0.29	0.394	2.320	0.077			
			3	2/3			109	285.21	288.00	2.79	0.25	1:2	0.19	0.13	0.01	0.028	0.091	0.007			
			3	2/3			110	288.00	291.00	3.00	0.25	1:5	0.11	0.02	0.01	0.060	0.046	0.007			
			3	2/3			111	291.00	293.40	2.40	tr	1:1	0.02	0.01	0.01	0.005	0.009	0.003			
			3	3			112	293.40	294.00	0.60	tr		0.03	0.00	0.00	0.013	0.008	0.003			
			3	3/4			113	294.00	297.00	3.00	tr		0.01	0.00	0.00	0.004	0.010	0.003			
			3	3/4			114	297.00	300.00	3.00	tr		0.02	0.00	0.00	0.003	0.009	0.003			
			3	3/4			115	300.00	303.00	3.00	tr		0.01	0.00	0.00	0.002	0.015	0.004			
			3	3/4			116	303.00	305.83	2.83	0.25		0.02	0.01	0.00	0.011	0.014	0.003			
			3	2/3			117	305.83	309.00	3.17	0.25		0.06	0.01	0.00	0.010	0.017	0.004			
			3	2/3			118	309.00	312.00	3.00	0.50		0.18	0.03	0.02	0.075	0.043	0.007			
			3	2/3			119	312.00	315.00	3.00	0.50		0.26	0.03	0.02	0.127	0.060	0.011			
			3	2/3			120	315.00	318.00	3.00	0.25		0.14	0.00	0.02	0.074	0.047	0.007			
			3	3/4			121	318.00	320.56	2.56	0.25		0.15	0.03	0.01	0.063	0.049	0.010			
			3	3/4			122	320.56	323.47	2.91	0.25		0.16	0.02	0.04	0.059	0.058	0.016			
			2/3	3/4			123	323.47	325.34	1.87	0.50		0.20	0.04	0.01	0.120	0.052	0.006			
			2/3	3/4			124	325.34	327.30	1.96	0.25		0.02	0.00	0.00	0.007	0.008	0.002			
			2/3	2/3			125	327.30	330.00	2.70	tr		0.04	0.00	0.00	0.002	0.011	0.003			
			2/3	2/3			126	330.00	333.00	3.00			0.05	0.00	0.00	0.003	0.015	0.004			
			2/3	2/3			127	333.00	336.00	3.00			0.06	0.00	0.00	0.002	0.022	0.004			
			2/3	2/3			128	336.00	338.05	2.05			0.02	0.00	0.00	0.002	0.008	0.003			
			2/3	3/4			129	338.05	339.00	0.95			0.01	0.00	0.00	0.002	0.014	0.005			
			2/3	3/4			130	339.00	340.45	1.45	tr		0.02	0.00	0.00	0.002	0.012	0.004			
			2/3	3			131	340.46	342.00	1.54			0.03	0.00	0.00	0.001	0.013	0.004			
			2/3	3			132	342.00	345.00	3.00	tr		0.03	0.00	0.00	0.003	0.009	0.003			
			2/3	3/4			133	345.00	348.00	3.00	1.00		0.01	0.00	0.00	0.002	0.007	0.003			

## DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.  
LAC DES ILES MINES LTD.PROPERTY LDI ZONE Roby HOLE # 00-150LOGGED BY: K. Nelson

SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
256.37	463.24	<b>ALTERED MEDIUM TO COARSE GRAINED, MAGNETIC GABBRO (continued)</b>	3	3			134	348.00	351.00	3.00	0.50		0.05	0.00	0.01	0.032	0.023	0.007
			3	3/4			135	351.00	354.00	3.00	0.50		0.09	0.02	0.01	0.044	0.035	0.008
			3	3/4			136	354.00	357.00	3.00	0.25		0.03	0.00	0.00	0.011	0.013	0.004
		269.04m - 278.58m: As per initial description. Trace to 0.5% fine grained disseminated pyrite.	3	3/4			137	357.00	360.00	3.00	0.50		0.07	0.01	0.01	0.017	0.029	0.007
			3	3/4			138	360.00	362.48	2.48	0.25		0.09	0.01	0.00	0.003	0.047	0.010
		278.58m - 293.40m: Grades through a section that is 50% gabbronorite/norite with the brown Opx as in 261.17- 269.04.	2	3			139	362.48	364.24	1.76	0.25		0.02	0.00	0.00	0.004	0.009	0.003
		The rest is gabbro to gabbronorite with varying amounts of tremolite from <5 - 20%. Tremolite is much more distinctive here than in the gabbro sections.	2/3	3			140	364.24	366.00	1.76	0.50		0.02	0.00	0.00	0.002	0.011	0.004
			2/3	3/4			141	366.00	369.00	3.00	tr		0.01	0.00	0.00	0.002	0.010	0.003
			2/3	3/4			142	369.00	372.00	3.00	tr		0.24	0.01	0.01	0.005	0.014	0.003
		284.48m - 285.21m: 3 sections of massive sulphide (pyrrhotite/chalcopyrite) flooding of 30-75% and 25-40cm long. Contacts to these sections are variable, from gradational to sharp (generally at 45-60° to core axis) Varies from large masses to interstitial flooding. Between these sections are more disseminated sulphides and the occasional veinlet to 1cm thick. These include minor, black needlelikesoft, non-metallic, partly radiating minerals (amphibole?).	2/3	3/4			143	372.00	373.62	1.62			0.02	0.00	0.00	0.003	0.014	0.004
			3	3/4			144	373.62	375.84	2.22			0.07	0.02	0.01	0.013	0.045	0.011
			3	3			145	375.84	378.00	2.16	0.25	1:4	0.08	0.02	0.01	0.042	0.041	0.005
			3	3/4			146	378.00	381.00	3.00	tr		0.10	0.02	0.01	0.020	0.019	0.005
			3	3/4			147	381.00	382.14	1.14	0.25		0.05	0.00	0.01	0.005	0.009	0.003
			3	3/4			148	382.14	384.00	1.86			0.07	0.00	0.01	0.007	0.006	0.002
			3	3/4			149	384.00	387.00	3.00			0.11	0.01	0.01	0.005	0.008	0.002
			3	3/4			150	387.00	390.00	3.00	tr		0.08	0.00	0.01	0.005	0.008	0.002
			3	3/4			151	390.00	393.00	3.00			0.06	0.00	0.00	0.005	0.007	0.002
		285.21m - 291.00m: Chalcopyrite and pyrrhotite continue as fine grained disseminated to localized concentrations of blebs up to 10%.																
			3	3/4			152	393.00	396.00	3.00			0.06	0.01	0.00	0.005	0.007	0.002
			2/3	3			153	396.00	399.00	3.00	tr		0.06	0.01	0.01	0.009	0.010	0.003
			2/3	3/4			154	399.00	402.00	3.00			0.05	0.00	0.00	0.003	0.012	0.002
		293.40m - 305.83m: As per initial description. Trace to 0.25% pyrite and rare trace chalcopyrite as fine grained disseminations.	2/3	3/4			155	402.00	405.00	3.00	tr		0.02	0.00	0.00	0.002	0.017	0.003
			3	3/4			156	405.00	408.00	3.00	tr		0.03	0.00	0.00	0.002	0.024	0.003
		305.83m - 318.00m: Grades through ~40% gabbronorite/norite as per description in 261.17 - 269.04. Sections tend to be short with most <1m long. Fine grained disseminations and tiny blebs of pyrite and lesser chalcopyrite up to 0.75% total throughout this section. The rest of the section is gabbro and gabbronorite with <5-20% tremolite.	3	3/4			157	408.00	411.00	3.00	tr		0.02	0.00	0.00	0.002	0.022	0.003
			3	3/4			158	411.00	414.00	3.00			0.02	0.00	0.00	0.002	0.012	0.003
			3	3/4			159	414.00	417.00	3.00	tr		0.01	0.00	0.00	0.002	0.012	0.003
			2/3	3			160	417.00	420.00	3.00	tr		0.01	0.00	0.00	0.002	0.013	0.003
			2/3	3			161	420.00	423.00	3.00	tr		0.01	0.00	0.00	0.002	0.014	0.003
			2/3	3			162	423.00	426.00	3.00	tr		0.01	0.00	0.00	0.003	0.024	0.003
			2/3	3			163	426.00	429.00	3.00	tr		0.02	0.00	0.01	0.005	0.011	0.002







# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.

LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-150

LOGGED BY: K. Nelson

SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS							
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %	
463.24	474.85		<p><b>COARSE GRAINED LEUCOGABBRO</b></p> <p>Fairly light looking core which is whitish mottled with dark greyish-green. Coarse grained and weakly pyroxene porphyritic. Predominantly leucogabbro with ~20% gabbro sections &lt;10cm long. Leucogabbro is 65-80% Plag, 20-35% Cpx with &lt;5% Opx mainly as tremolite. Moderate actinolite and tremolite. Plag is fresh/white to weakly purplish-pink (potassice) altered. Weakly to locally moderately mottled to locally brecciating by hairline, mafic, healed fractures. Occasional greenish-beige, silicified, shear/fracture, up to 1cm thick at &lt;5-10° to core axis. Locally, there is a banding between the leucogabbro and gabbro (almost gneissic) at 45-55° to core axis. Local, small patches of yellowy-green saussurite alteration. Trace 0.25% fine grained disseminated pyrite and small blebs along fractures and veinlets.</p> <p>474.85m: Sharp lower contact at 60° to core axis.</p>																
		2		2/3			177	463.24	465.00	1.76	ttr		0.03	0.01	0.00	0.003	0.006	0.002	
		2		2/3			178	465.00	468.00	3.00	tr		0.03	0.00	0.00	0.003	0.006	0.002	
		2		2/3			179	468.00	471.00	3.00	tr		0.03	0.00	0.00	0.003	0.006	0.002	
		2		2/3			180	471.00	474.00	3.00	0.25		0.03	0.00	0.00	0.006	0.009	0.002	
		2		2/3			181	474.00	474.85	0.85	tr		0.02	0.01	0.00	0.007	0.007	0.002	
474.85	625.45	<p><b>COARSE GRAINED GABBRO (EAST GABBRO)</b></p> <p>Dark greyish-green to locally brownish-green. Coarse grained, equigranular and fairly massive/uniform looking. Approximately equal plagioclase and pyroxene with 45-55% plagioclase, 45-55% Cpx and &lt;5% Opx (as both fresh/brown variety and as tremolite). Weak to moderately actinolite and tremolite. Plagioclase alteration is variable, from fresh/white to often weakly purplish-pink (potassic) altered to light yellowy-green saussuritized alteration and staining of core.</p>																	
			2	2/3			182	474.85	477.00	2.15	0.25		0.02	0.00	0.00	0.009	0.007	0.002	
			2/3	2/3			183	477.00	480.00	3.00	0.25		0.01	0.00	0.00	0.011	0.004	0.002	
			2/3	2/3			184	480.00	483.00	3.00	0.25		0.01	0.01	0.00	0.010	0.004	0.002	
			2/3	2/3			185	483.00	486.00	3.00	0.25		0.01	0.01	0.00	0.010	0.005	0.002	
			2/3	2/3			186	486.00	489.00	3.00	0.25		0.01	0.00	0.00	0.012	0.005	0.002	
			2/3	2/3			187	489.00	492.00	3.00	0.25		0.01	0.00	0.00	0.013	0.005	0.002	
			2/3	2/3			489	492.00	495.00	3.00	0.25		0.01	0.01	0.00	0.010	0.004	0.002	
			2/3	2/3			189	495.00	498.00	3.00	0.25		0.01	0.00	0.00	0.009	0.004	0.002	
			3	2/3			190	498.00	501.00	3.00	0.25		0.01	0.00	0.00	0.008	0.004	0.002	
		3	2/3			191	501.00	504.00	3.00	0.25		0.01	0.00	0.00	0.010	0.005	0.002		
		3	2/3			192	504.00	506.82	2.82	0.25		0.01	0.01	0.00	0.010	0.006	0.002		

## DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.

LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-150LOGGED BY: K. Nelson

SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>				SAMPLES					ASSAYS							
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %	
474.85	625.45	<p><b>COARSE GRAINED GABBRO (EAST GABBRO)(continued)</b></p> <p>Moderately foliated throughout at 45-55° to core axis. Occasional felsic dikelet up to 5cm thick and generally at 60-70° to core axis. Occasional greenish-beige shear at 20-40° to core axis and occasional fractures are coated with mm thick calcite.</p> <p>479.60m - 479.67m: Aphanitic, brownish (biotite) altered, siliceous, patchy orange stained, felsic to intermediate dikelet. Sharp upper contact at 65° to core axis and sharp lower contact at 45° to core axis.</p> <p>481.80m - 491.10m: Grades through 20-25% gabbro-norite in sections up to 0.75m long. They have 20-50% brown Opx with much lesser tremolite, 45-55% Plag, and 5-30% Cpx. Weak alteration to Opx and plag is pervasively stained brownish-pink.</p> <p>506.82m - 513.00m: Fault zone. Sharp upper contact at 20° to core axis which is followed by at least 5cm thick solid clay. Core from here to the end is at least 1/2 in chippy pieces &lt;5cm with many having clay coatings. ~10% of the section is bull white quartz -veins up to 15cm long and often oriented at 25-30° to core axis. Patchy dark orange staining and moderate reddish-orange hematite along fractures and staining of the core. Sharp lower contact along a quartz-vein at 15-20° to core axis. There is also local moderate calcite. Note: sample 193 has ~1.75m of solid core.</p> <p>513.76m - 513.92m and 514.88m - 515.00m: 2 bull white quartz veins with minor wallrock patches or laminations. Upper vein has sharp contacts at 45° to core axis and lower vein has</p>																	
			3/4	3/4			193	506.82	510.00	3.18			0.00	0.00	0.00	0.002	0.007	0.002	
			3/4	3/4			194	510.00	513.00	3.00			0.00	0.00	0.00	0.001	0.007	0.001	
			3	2/3			195	513.00	516.00	3.00			0.01	0.00	0.00	0.007	0.005	0.001	
			2/3	2/3			196	516.00	519.00	3.00			0.02	0.01	0.00	0.007	0.005	0.002	
			3	2/3			197	519.00	522.00	3.00			0.01	0.01	0.00	0.008	0.005	0.002	
			3	3/4			198	522.00	525.00	3.00			0.01	0.01	0.00	0.007	0.005	0.002	
			2/3	3/4			199	525.00	528.00	3.00			0.02	0.02	0.00	0.009	0.005	0.002	
			3	3			200	528.00	531.00	3.00			0.02	0.00	0.00	0.008	0.006	0.002	
			2/3	2/3			201	531.00	534.00	3.00			0.02	0.01	0.00	0.007	0.005	0.001	
			2/3	2/3			202	534.00	537.00	3.00			0.02	0.01	0.00	0.007	0.005	0.001	
			2/3	2/3			203	537.00	540.00	3.00			0.02	0.01	0.00	0.006	0.006	0.002	
			2/3	2/3			204	540.00	543.00	3.00			0.02	0.00	0.00	0.006	0.006	0.002	
			2/3	2/3			205	543.00	546.00	3.00			0.02	0.00	0.00	0.008	0.006	0.002	
			2/3	2/3			206	546.00	549.00	3.00			0.02	0.00	0.00	0.007	0.005	0.002	
			2/3	2/3			207	549.00	552.00	3.00			0.03	0.01	0.00	0.007	0.005	0.002	
			2/3	2/3			208	552.00	555.00	3.00			0.06	0.03	0.00	-----	-----	-----	
			2/3	2/3			209	555.00	558.00	3.00			0.11	0.03	0.01	-----	-----	-----	
			2/3	2/3			210	558.00	561.00	3.00			0.03	0.02	0.00	-----	-----	-----	
			2/3	2/3			211	561.00	564.00	3.00			0.03	0.01	0.00	-----	-----	-----	
			2/3	2/3			212	564.00	567.00	3.00			0.02	0.01	0.00	-----	-----	-----	
			2/3	2/3			213	567.00	570.00	3.00			0.03	0.02	0.01	-----	-----	-----	
		2/3	2/3			214	570.00	573.00	3.00			0.03	0.02	0.00	-----	-----	-----		
		2/3	2/3			215	573.00	576.00	3.00			0.03	0.02	0.01	-----	-----	-----		
		2/3	2/3			216	576.00	579.00	3.00			0.03	0.02	0.01	-----	-----	-----		
		2/3	2/3			217	579.00	582.00	3.00			0.03	0.02	0.00	-----	-----	-----		
		2/3	2/3			218	582.00	585.00	3.00			0.03	0.02	0.00	-----	-----	-----		
		2/3	2/3			219	585.00	588.00	3.00			0.02	0.01	0.00	-----	-----	-----		
		2/3	2/3			220	588.00	591.00	3.00			0.08	0.03	0.01	-----	-----	-----		
		2/3	2/3			221	591.00	594.00	3.00			0.07	0.02	0.01	0.007	0.007	0.002		
		2/3	2/3			222	594.00	597.00	3.00	1.00		0.05	0.02	0.00	0.009	0.005	0.003		



# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-150

LOGGED BY: K. Nelson SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
474.85	625.45						<p><b>COARSE GRAINED GABBRO (EAST GABBRO)(continued)</b></p> <p>~40% fine to medium grained gabbro and 20% coarse grained pyroxenite. The gabbro and pyroxenite have 0.5-2% pyrite with trace chalcopyrite. Sharp contacts to the clasts.</p> <p>625.45m: Sharp lower contact at 40° to core axis.</p>											
625.45	632.33	<p><b>MEDIUM TO COARSE GRAINED GABBRO</b></p> <p>Dark greyish-green. Medium to locally coarse grained gabbro, mostly equigranular to locally coarse grained pyroxene prophyritic (very weak varitexture). Equal amounts plag and pyroxene to locally more pyroxene than plag with local melanogabbro. Overall, 45-50% plag, 50-55% pyroxene which is mostly Cpx with &lt;5% tremolite. Overall moderate alteration with pyroxene grains slightly angular and weak to moderate actinolite altered, moderate tremolite. Plag is pervasively a greyish-pink colour with local yellowy-green stain. Local, small patches of saussurite alteration throughout and along fractures. Weakly mottled by mafic hairline fractures. It is distinctive from the above medium to coarse grained unit in its dark, more pyroxene rich appearance and it is more predominantly medium grained and well mineralized. Well mineralized with 1.5% pyrite and 0.5 to 1% chalcopyrite/pyrrhotite as fine grained tiny disseminated to interstitial blebs up to 1cm long.</p> <p>632.33m: Sharp lower contact at 45° to core axis.</p>	3	2/3			233	625.45	627.00	1.55	0.50	3:1	3.50	0.31	0.23	0.129	0.090	0.005
			3	2/3			234	627.00	630.00	3.00	1.50	3:1	3.58	0.31	0.35	0.221	0.119	0.007
			3	2/3			235	630.00	632.33	2.33	1.50	3:1	1.31	0.13	0.14	0.098	0.050	0.004

# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-150

LOGGED BY: K. Nelson SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>		SAMPLES						ASSAYS							
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	NI %	Co %
632.33	634.52	<p><b>PLAG PORPHYRITIC INTERMEDIATE DIKE</b></p> <p>Moderate to dark brownish. Fine to medium grained equigranular with 5-20%, 1-3mm long, anhedral plag crystals. Unit is composed of a felsic groundmass with 30-40% very fine grained brownish, mafic speckles which are probably biotite. Sections to patches of moderate pinkish (potassic) alteration to plag. Moderately mottled by white, calcareous healed fractures, often at 20-40° to core axis. 1% fine grained disseminated to tiny blebs of pyrite. Sharp upper contact at 45° to core axis and sharp lower contact at 45° to core axis.</p>	2	3			236	632.33	634.52	2.19	1.00		0.03	0.01	0.01	0.008	0.008	0.002
634.52	645.16	<p><b>COARSE GRAINED, ALTERED PYROXENITE</b></p> <p>Dark blackish-green, very dense looking. Appears to have probably been coarse grained and fairly equigranular but it is moderately well altered and has a weak to moderate foliation/shearing at 30-60° to core axis. Mostly pyroxene with 0-5% plag, 95-100% pyroxene which appears to be mostly Cpx but Opx may not be distinguishable due to the alteration. Locally, there is up to 10% yellowy-green, anhedral olivine(?) crystals and there is locally orange to reddish hematite staining. Moderate to strong actinolite and grain outlines are moderately distinguishable to indistinguishable. Moderate talc as well. Locally brecciated by hairline fractures with minor clay and fractures occasionally have white calcite. Mineralization is overall 0.5% pyrite and 0.25-0.5% chalcopyrite/ pyrrhotite as fine grained tiny blebs to streaks following</p>	3	3/4			237	634.52	636.00	1.48	0.50	3:1	6.37	0.50	0.11	0.070	0.071	0.006
			3	3/4			238	636.00	639.00	3.00	0.50	3:1	13.15	0.65	0.58	0.111	0.096	0.006
			3	3/4			239	639.00	642.00	3.00	0.50	3:1	9.35	0.53	0.17	0.040	0.050	0.004
			3	3/4			240	642.00	643.19	1.19	0.50	3:1	9.33	0.57	0.40	0.113	0.085	0.006
			3	2/3			241	643.19	645.16	1.97	0.25		5.08	0.44	0.19	0.044	0.074	0.003

# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.

LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-150

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METERAGE		DESCRIPTION	Alt <sup>m</sup> Bx Matrix				SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
634.52	645.16	<p><b>COARSE GRAINED, ALTERED PYROXENITE (continued)</b></p> <p>foliation. It occurs disseminated along the length but mostly in short concentrations up to 3%.</p> <p>643.19m - 645.16m: Pyroxenite grades into a melanogabbro which grades down-hole into the lower gabbro unit. No sharp contacts observed.</p> <p>645.16m: Gradational lower contact.</p>																
645.16	680.09	<p><b>VARITEXTURED GABBRO WITH WEAK BRECCIA</b></p> <p>Moderate to dark greyish-green. Medium to coarse grained with much lesser fine grained and very coarse grained. Varitextured, varying from equigranular to pyroxene porphyritic with varitexture moderate to well developed. In some sections of core, grain sizes and textures are more gradational over a few to 10s of cm and in other sections, they vary quickly and abruptly over only a few cms. It is a mottled/uneven looking unit. Roughly equal plag and pyroxene with 45-55% plag and 45-55% Cpx with &lt;5% tremolite. Moderate actinolite and tremolite alteration. Plag is mostly fairly fresh/white to locally stained light green or light purplish-pink (potassic) altered. Structures vary quite a bit throughout. There are occasional hairline, white, calcareous healed fractures; laminated/foliated, narrow shears from 10-40° to core axis and up to 4cm wide with wider (up to 10cm) zones at 50-70° to core axis; short (&lt;10cm) patches to dikes of diabase and microgabbro. Irregular felsic to intermediate dikes also occasionally occur with variable biotite and hornblende. It is a weak</p>	2	3			242	645.16	648.00	2.84	0.75	3:1	4.31	0.26	0.47	0.090	0.093	0.004
							243	648.00	651.00	3.00	0.50	4:1	2.80	0.21	0.48	0.103	0.080	0.004
							244	651.00	654.00	3.00	0.75	3:1	2.88	0.22	0.23	0.074	0.065	0.004
							245	654.00	657.00	3.00	0.25	4:1	10.70	0.46	0.22	0.059	0.085	0.004
							246	657.00	660.00	3.00	0.25		6.20	0.41	0.09	0.027	0.074	0.003
							247	660.00	660.96	0.96	0.25		1.74	0.14	0.02	0.005	0.039	0.003
							248	660.96	662.10	1.14	0.25		0.11	0.02	0.05	0.020	0.005	0.003
							249	662.10	663.00	0.90	0.50		2.81	0.23	0.19	0.053	0.067	0.003
							250	663.00	666.00	3.00	0.25	3:1	5.87	0.37	0.38	0.084	0.073	0.004
							251	666.00	669.00	3.00	0.25	3:1	3.05	0.22	0.20	0.052	0.046	0.003
							252	669.00	672.00	3.00	0.25		0.48	0.11	0.23	0.062	0.045	0.003
							253	672.00	675.00	3.00	0.25		0.39	0.10	0.11	0.049	0.045	0.003
							254	675.00	678.00	3.00	0.25		1.03	0.12	0.16	0.054	0.062	0.003
							255	678.00	680.09	2.09	0.25	3:1	1.72	0.26	0.25	0.104	0.089	0.004

# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-150

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METERAGE		DESCRIPTION	Alt <sup>n</sup> Bx Matrix				SAMPLES					ASSAYS						
FROM	TO		Plag	Pxt	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
645.16	680.09	<p><b>VARITEXTURED GABBRO WITH WEAK BRECCIA (continued)</b></p> <p>breccia as there is the rare melanogabbro to pyroxenite clast, 10-40cm long with sharp contacts. These clasts mainly occur from 654.00 - 668.50. Fairly well mineralized with up to 1% pyrite and 0.5% chalcopyrite/pyrrhotite as fine grained tiny blebs and up to medium grained pyrite crystals. Blebs occur throughout core with localized concentrations up to 3% and medium grained crystals of pyrite often occur along fractures or shears.</p> <p>660.96m - 662.10m: Dark grey, fine grained, magnetic diabase dike. Well mottled and bleached by hairline fractures. 0.25% pyrite along fractures. Sharp upper contact at 45° to core axis and sharp lower contact at 40° to core axis.</p> <p>677.32m - 677.71m: Black, very fine grained magnetic diabase dike. Sharp upper contact at 50° to core axis and sharp lower contact at ~55° to core axis.</p>																
680.09	687.20	<p><b>DIABASE DIKE AND SHEAR ZONE</b></p> <p>Black to dark greenish-grey, fine grained, magnetic diabase dike to 683.77m. Well mottled by white to greenish hairline fractures at various orientatins to core axis and locally brecciating. Loal plag crystals up to 5mm long and 0.25% pyrite along fractures. Sharp upper contact at average of 40° to core axis and lower contact is fractured. 683.77 - 687.20 is a well sheared/faulted fine grained mafic unit which may have been a melanogabbro to pyroxenite. Foliation/shearing appears to be at 20-30° to core axis with clay and calacite common. This section includes a moderate grey quartz vein which is well</p>																
							256	680.09	681.00	0.91	0.25		0.20	0.04	0.04	0.013	0.009	0.003
							257	681.00	683.77	2.77	0.25		0.09	0.02	0.01	0.012	0.002	0.003
			3	3/4			258	683.77	685.58	1.81	1.00		0.01	0.01	0.01	0.009	0.004	0.004
			3	3/4			259	685.58	687.20	1.62	0.50		0.08	0.02	0.01	0.003	0.020	0.003

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METERAGE		DESCRIPTION	Alt <sup>n</sup> Bx Matrix				SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
681.09	687.20	<p><b>DIABASE DIKE AND SHEAR ZONE (continued)</b></p> <p>laminated to brecciated with sheared wallrock inclusions and along fractures and has ~1% medium to coarse grained pyrite crystals up to 4mm across along the foliations. Patches of this quartz vein occur sporadically to the end.</p>																
687.20	696.00	<p><b>ALTERED POPCORN GABBRO</b></p> <p>Moderate greyish-green to yellowy-green. Very coarse grained, pyroxene porphyritic gabbro. Blotchy looking due to different sizes of the pyroxene phenocrysts, from 0.5cm to blobs up to 4cm long. More plag than pyroxene with 50-65% plag, 35-40% Cpx. Weak to moderate actinolite. Plag is fresh/white to yellowy-green (epidote) stained to orangey-pink (potassic) altered. Localized sections have a purplish-grey bleaching with fine grained sulphides within it. Weakly brecciated by offsetting within the unit as there is the occasional sharp contact between alteration and degrees of pyroxene porphyry and occasional sections that are almost melano in composition.</p> <p>The extension of this hole commence on July 19, 2001 and was complete on July 25, 2001.</p>																
		E.O.H.																
			3	2/3			260	687.20	690.00	2.80	0.25	1:1	2.09	0.26	0.05	0.074	0.082	0.004
			2/3	2/3			261	690.00	693.00	3.00	0.25	1:1	2.05	0.27	0.05	0.118	0.078	0.003
			2/3	2/3			262	693.00	696.00	3.00	0.25	2:1	3.58	0.37	0.17	0.159	0.143	0.005





# DIAMOND DRILL CORE LOGGING SHEETS

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PROPERTY LDI ZONE Roby HOLE # 00-150

LOGGED BY: J. Rickard SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>m</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
716.90	728.00		<p><b>LATE MAFIC DIKE SWARM</b></p> <p>Swarm of late mafic dikes intruding East Gabbro. Approximately 55% gabbro and 45% dikes. Gabbro is moderately foliated at ~40° to 50° to core axis, strongly altered. Late Mafic dikes are pervasively altered, light grey to beige in colour, weakly altered zones are dark grey. Dikes are typically very fine grained, with sharp contacts; cross-cut by numerous thin fractures/veinlets.</p> <p>716.90m - 718.10m, 718.70m - 721.10m, 721.80m - 724.20m, 727.10m - 728.00m: Late Mafic dikes: sharp contacts, some have clasts of East Gabbro within them.</p>					271	716.90	718.10	1.20	tr	py	0.01	0.00	0.01	-----	-----
			3	3			272	718.10	721.00	2.90			0.03	0.00	0.00	-----	-----	-----
			3	3			273	721.00	724.20	3.20			0.01	0.00	0.00	-----	-----	-----
			3	3			274	724.20	727.10	2.90			0.02	0.01	0.00	-----	-----	-----
							275	727.10	728.00	0.90			0.00	0.00	0.00	-----	-----	-----
728.00	836.10	<p><b>EAST GABBRO</b></p> <p>Typical East Gabbro, medium grained, realtively equigranular, dark green to black and grey to white; moderately foliated at 45° to 60° to core axis. Cumulus, euhedral to subhedral plagioclase and cumulus/intercumulus? altered Cpx; sharp grain boundaries between mineral phases. Cpx is moderately altered to amphibole/chlorite; plag is typically bleached or saussuritized (green-yellow). Opx nil, Cpx 45-50%, Plag 50-55%;</p> <p>728.00m - 730.00m; 737.40m - 738.30m: Mafic dike. Fine grained, black and white speckled, black minerals possibly amphibole. 1st dike: diffuse contact, partly altered. 2nd dike: sharp contacts at 40-45° to core axis.</p>					276	728.00	730.00	2.00	tr	py	0.00	0.00	0.00	-----	-----	-----
			3	3			277	730.00	732.00	2.00	tr	py	0.02	0.00	0.00	-----	-----	-----
			3	3			278	732.00	735.00	3.00			0.01	0.00	0.00	-----	-----	-----
			3	3			279	735.00	737.50	2.50			0.02	0.01	0.00	-----	-----	-----
							280	737.40	738.30	0.90			0.00	0.00	0.01	-----	-----	-----
			3	3			281	738.30	741.00	2.70			0.02	0.01	0.00	-----	-----	-----
							282	741.00	741.60	0.60	tr	py	0.00	0.00	0.00	-----	-----	-----
			3	3			283	741.60	744.00	2.40			0.02	0.01	0.00	-----	-----	-----
			3	3			284	744.00	747.00	3.00	tr	py	0.02	0.01	0.00	-----	-----	-----
			3	3			285	747.00	750.00	3.00			0.02	0.01	0.00	-----	-----	-----
			3	3			286	750.00	753.00	3.00	tr	py	0.02	0.01	0.00	-----	-----	-----
			3	3			287	753.00	756.00	3.00	tr	py	0.02	0.01	0.00	-----	-----	-----
			3	3			288	756.00	759.00	3.00			0.02	0.01	0.00	-----	-----	-----
			3	3			289	759.00	762.00	3.00			0.02	0.01	0.00	-----	-----	-----
			3	3			290	762.00	765.00	3.00			0.02	0.01	0.00	-----	-----	-----
			3	3			291	765.00	768.00	3.00			0.02	0.01	0.00	-----	-----	-----

# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-150

LOGGED BY: J. Rickard SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES						ASSAYS					
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
728.00	836.10	<b>EAST GABBRO (continued)</b>	3	3			292	768.00	771.00	3.00			0.02	0.01	0.00			
		741.00m - 741.60m: 777.00m - 777.30m: 781.70m - 782.00m: 808.40m - 809.1m: Late Mafic Dikes: Very fine grained, aphanitic, grey to black, non-magnetic to weakly magnetic, sharp contacts. Minor pyrite in cross-cutting fractures.	3	3			293	771.00	774.00	3.00			0.02	0.01	0.00			
		820.20m - 821.00m: Quartz-Feldspar veins: Quartz veins with margins dominated by plagioclase. Vary in thickness from 0.5cm to 5.0cm, varying orientations.	3	3			294	774.00	777.00	3.00			0.02	0.01	0.00			
		821.00m - 821.45m: Healed shear: Narrow shear at 10-20° to core axis. Very fine grained to fine grained.	3	3			295	777.00	780.00	3.00			0.02	0.00	0.00			
			3	3			296	780.00	783.00	3.00	tr	py	0.02	0.00	0.01			
			3	3			297	783.00	786.00	3.00			0.02	0.00	0.00			
			3	3			298	786.00	789.00	3.00			0.02	0.00	0.00			
			3	3			299	789.00	792.00	3.00	tr	py	0.02	0.01	0.00			
			3	3			300	792.00	795.00	3.00			0.02	0.01	0.00			
			3	3			301	795.00	798.00	3.00	tr	py	0.02	0.01	0.00			
			3	3			302	798.00	801.00	3.00	tr	py	0.02	0.01	0.01			
			4	4			303	801.00	804.00	3.00			0.02	0.01	0.00			
			4	4			304	804.00	807.00	3.00			0.02	0.00	0.00			
			4	4			305	807.00	808.40	1.40			0.02	0.01	0.00			
							306	808.40	809.10	0.70			0.00	0.00	0.04			
			3	3			307	809.10	810.00	0.90			0.02	0.00	0.00			
			4	4			308	810.00	813.00	3.00			0.02	0.01	0.00			
			4	4			309	813.00	816.00	3.00			0.03	0.01	0.00			
			4	4			310	816.00	819.00	3.00			0.02	0.00	0.00			
			3	3			311	819.00	822.00	3.00			0.01	0.00	0.00			
			3	3			312	822.00	825.00	3.00			0.04	0.01	0.00			
			4	4			313	825.00	828.00	3.00	tr	py	0.05	0.01	0.00			
			4	4			314	828.00	831.00	3.00			0.02	0.00	0.00			
			4	4			315	831.00	834.00	3.00			0.02	0.00	0.00			
			4	4			316	834.00	836.01	2.01			0.05	0.01	0.00			

# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-150

LOGGED BY: J. Rickard

SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
836.10	844.30		<p><b>MELANOGABBRO/LATE MAFIC DIKE</b></p> <p>Unit consists of strongly altered and sheared melanogabbro that is intruded by a late mafic dike. Approximately 20% broken core in interval, typically broken sub-parallel to shear at ~30° to core axis. Melanogabbro is fine grained to medium grained, dark green to black, friable, cross-cut by numerous, thin veinlets/shears. Opx nil, Cpx ~70-80%, Plag ~20-30%.</p> <p>838.10m - 838.50m: Quartz-feldspar dike: Massive quartz with pink and white feldspar lining the margins of the dike. Irregular contacts.</p> <p>838.90m - 842.00m: Late Mafic Dike: Very fine grained to fine grained, green to dark grey, partly altered. Upper contact sharp at 50° to core axis. Lower contact sharp at ~40° to core axis.</p>															
			4	4			317	836.10	838.90	2.80	tr	py	0.28	0.05	0.01			
							318	838.90	842.00	3.10	tr	py	0.23	0.02	0.11			
			4	4			319	842.00	844.30	2.30			2.50	0.19	0.02			
844.30	853.90	<p><b>EAST GABBRO</b></p> <p>East Gabbro that is intrudes by Late Mafic Dike and becomes more melanocratic toward the lower contact with pyroxenite. East Gabbro is medium grained, equigranular, massive, weakly to moderately altered. Plg is white to green-yellow (saussuritized). Cpx is altered to darked green actinolite and dull green chlorite. Opx nil, Cpx 45-60%; Plag 40-55%. Rare pyrite specks typically associated with more melanocratic gabbro.</p>																
			2	3			320	844.30	847.00	2.70			0.05	0.01	0.00			
			3	3			321	847.00	850.00	3.00			0.05	0.01	0.00			
			2	3			322	850.00	851.70	1.70	tr	py	0.14	0.02	0.08			
			3	3			323	851.70	853.90	2.20	0.25	py	0.16	0.05	0.06			

# DIAMOND DRILL CORE LOGGING SHEETS

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METERAGE		DESCRIPTION	Alt <sup>n</sup> Bx Matrix				SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
844.30	853.90	<b>EAST GABBRO (continued)</b>  850.00m - 850.90m: Late Mafic Dike: Fine grained, dark grey-green, locally porphyritic, small clast of Gabbro within (<20cm in diametre). Upper contact sharp at ~50° to core axis. Lower contact sharp at ~45° to core axis. 851.70m - 853.90m: Melanogabbro: Fine grained to medium grained, similar texture to east gabbro, but less plag content. Upper contact sharp at 50° to core axis. Lowe contact gradational. Minor pyrite specks.																
853.90	890.10	<b>PYROXENITE/MELANOGABBRO</b>  Well-mineralized seciton composed predominantly of intensely altered to sheared medium grained to coarse grained Pyroxenite and melanogabbro with local sub-sections/xenoliths/fragments of gabbro, the whole section, except for Late Mafic dike, is very well mineralized and strongly to intensely altered, generally fracturing parallels shearing at moderate to low angles to the core axis, contacts between compositional and textural variations are most commonly diffuse, best mineralized and altered pyroxenite/melanogabbro I've described in a long time. Fine grained to medium grained, to coarse grained grey-green to green, predominantly soft, not magnetic and sheared at 10° to 50° to core axis, local minor creamy-white plag rich stringers, veinlets and veins, local slickensides obliquely cross-cutting chlorite coated fracture surfaces, local minor																
			2	3			324	853.91	855.00	1.09	1.00	>10:1	0.46	0.05	0.09	0.133	0.070	0.011
			2	3			325	855.00	856.50	1.50	1.00	>10:1	0.16	0.03	0.12	0.147	0.077	0.010
			2	3			326	856.50	858.00	1.50	0.50		0.06	0.04	0.03	0.051	0.038	0.007
			2	2			327	858.00	859.50	1.50	0.25		0.72	0.10	0.13	0.145	0.081	0.008
			2	3			328	859.50	861.25	1.75	0.50	>10:1	1.64	0.16	0.30	0.126	0.090	0.010
				4			329	861.25	862.95	1.70	1.00	>10:1	5.00	0.35	0.36	0.244	0.154	0.009
				4			330	862.95	864.00	1.05	2.00	>10:1	8.20	0.51	0.40	0.189	0.183	0.011
				4			331	864.00	865.50	1.50	0.75	>10:1	9.30	0.60	0.79	0.147	0.172	0.010
				4			332	865.50	867.00	1.50	1.50	>10:1	2.30	0.17	0.15	0.056	0.094	0.009
				4			333	867.00	868.50	1.50	1.00	>10:1	2.90	0.22	0.11	0.092	0.112	0.008
			3	4			334	868.50	870.00	1.50	0.25		2.50	0.19	0.43	0.089	0.111	0.008
			3	3			335	870.00	871.50	1.50	0.50		3.10	0.40	0.09	0.074	0.083	0.008
			3	3			336	871.50	873.00	1.50	0.50		5.20	0.50	0.48	0.081	0.107	0.007
			4	4			337	873.00	874.50	1.50	tr		1.26	0.12	0.11	0.022	0.066	0.007
			3	3			338	874.50	875.60	1.10	tr		3.40	0.34	0.14	0.042	0.043	0.004
							339	875.60	878.45	2.85			0.02	0.00	0.01	0.006	0.002	0.002
			3	3			340	878.45	879.50	1.05	0.25		9.70	0.62	0.65	0.240	0.147	0.006



## DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.

LAC DES ILES MINES LTD.

LOGGED BY: J. Rickard & B. Nelson SIGNATURE \_\_\_\_\_ PROPERTY LDI ZONE Roby HOLE # 00-150

METERAGE		DESCRIPTION	Alt <sup>n</sup> Bx Matrix				SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
890.10	898.70	<b>GABBRO (continued)</b>  and pyrite. 894.50m - 895.05m: Lake Mafic dike, fine grained, dark grey-black, hard moderately magnetic, locally weakly plag porphyritic and very locally sheared at high angle to core axis. Upper and lower contacts at 80° and 60° to core axis, respectively, fine grained disseminated pyrite associated with lower contact.																
898.70	979.20	<b>VARITEXTURED GABBRO</b>  Fine grained to medium grained to coarse grained, to locally pegmatitic, green-grey, moderately soft and not magnetic, exhibits a weakly varied textured defined by subtle variations in texture (grain size), contacts between grain size variations gradational, local possible medium grained more leucocratic gabbroic xenoliths, overall section appears to be compositionally gabbro to locally melanogabbro, local minor to moderate erratic medium grained plag rich stringers, veinlets and veins, locally cut by metre scale late mafic dikes, local 10cm to 50cm scale plag rich sub-sections to coarse grained anorthosite dikes? Local subtle hint of gabbro breccia texture. Local subsection exhibit a well defined varied texture, very local minor epidote. 50-65% Cpx, locally >65% Cpx. 35-50% Plag, locally <35% Plag. Strong alteration of Cpx to actinolite.	3	3			353	898.70	900.00	1.30	tr		2.40	0.17	0.03	0.017	0.040	0.003
			3	3			354	900.00	903.00	3.00	0.05	>10:1	6.40	0.47	0.21	0.059	0.095	0.005
			3	3			355	903.00	906.00	3.00	0.25		1.75	0.16	0.11	0.054	0.065	0.005
			3	3			356	906.00	909.00	3.00	0.25		0.72	0.08	0.10	0.034	0.064	0.005
			3	3			357	909.00	912.00	3.00	0.50	>10:1	1.10	0.13	0.12	0.041	0.066	0.004
			3	3			358	912.00	915.00	3.00	tr		0.66	0.06	0.08	0.029	0.041	0.005
			3	3			359	915.00	918.00	3.00	0.50	>10:1	1.04	0.11	0.07	0.045	0.058	0.005
			3	3			360	918.00	921.00	3.00	0.25	>10:1	0.53	0.07	0.05	0.025	0.039	0.004
			2	3			361	921.00	924.00	3.00	tr		0.10	0.03	0.01	0.005	0.033	0.004
			2	3			362	924.00	927.00	3.00	tr		0.64	0.09	0.07	0.037	0.063	0.004
			3	3			363	927.00	930.00	3.00	0.50	>10:1	1.05	0.09	0.19	0.095	0.090	0.005
			2	3			364	930.00	933.00	3.00	0.25		0.68	0.05	0.08	0.049	0.077	0.005
			3	3			365	933.00	936.00	3.00	tr		0.86	0.08	0.10	0.066	0.070	0.004
			4	4			366	936.00	939.00	3.00	tr		0.58	0.05	0.06	0.050	0.053	0.003
			3	3			367	939.00	942.00	3.00	50.00	>10:1	1.28	0.12	0.12	0.097	0.101	0.004
			2	3			368	942.00	945.00	3.00	0.25		1.19	0.11	0.12	0.074	0.079	0.004
			2	3			369	945.00	948.00	3.00	0.50	>10:1	2.60	0.23	0.40	0.144	0.135	0.006
			3	3			370	948.00	951.00	3.00	0.50	>10:1	1.89	0.16	0.10	0.070	0.107	0.006
			3	3			371	951.00	954.00	3.00	0.75	>10:1	2.30	0.21	0.18	0.118	0.134	0.006
			3	3			372	954.00	957.00	3.00	0.75	>10:1	4.40	0.32	0.08	0.065	0.157	0.006





# DIAMOND DRILL CORE LOGGING SHEETS

North American **Palladium Ltd.**  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-150

LOGGED BY: J. Rickard & B. Nelson SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
898.70	979.20		<p><b>VARITEXTURED GABBRO (continued)</b></p> <p>934.55m - 934.80m: Anorthosite Dike: Contacts at high angle to core axis.</p> <p>935.10m - 935.80m: Altered, sheared to blocky fractured gabbro.</p> <p>942.00m - 948.00m: Local minor 5 to 10cm scale plag porphyritic mafic dikelets, locally sheared, contacts at variable degrees to core axis.</p> <p>963.80m - 965.50m: Late Mafic Dike: Very fine grained, dark grey-black, very hard and weakly magnetic, minor fine grained disseminated pyrite. Sharp, irregular upper and lower contacts.</p> <p>969.45m - 970.05m: Mafic Dike: Fine grained, green-grey, hard and not magnetic, minor fine grained disseminated pyrite. Upper and lower contacts at 30 to 40° to core axis.</p>															
979.20	989.50	<p><b>LATE MAFIC DIKE</b></p> <p>Very fine grained grey-black, very hard, overall moderately to locally strongly magnetic and locally finely laminated/banded at 70° to core axis, moderate erratic white to white-grey plag rich stringers and veinlets, very local stringers epidote, trace fine grained disseminated pyrite, overall moderately fractured at various degrees to core axis.</p> <p>Contact at 979.20 at 60° to core axis.</p> <p>Contact at 989.50 at 45° to core axis.</p> <p>983.50m - 984.85m: Melanogabbro Xenoliths.</p> <p>No visible sulphides.</p> <p>Contact at 983.50 at 60° to core axis.</p> <p>Contact at 984.85 at 45° to core axis.</p>																
							381	979.20	981.00	1.80	tr		0.05	0.01	0.01	0.012	0.010	0.004
							382	981.00	983.50	2.50	tr		0.01	0.00	0.02	0.013	0.006	0.004
			3	3			383	983.50	984.85	1.35			0.53	0.12	0.04	0.025	0.053	0.006
							384	984.85	987.00	2.15	tr		0.00	0.00	0.00	0.010	0.006	0.004
							385	987.00	989.50	2.50	tr		0.00	0.00	0.00	0.012	0.009	0.004

# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.  
LAC DES ILES MINES LTD.

PROPERTY LD ZONE Roby HOLE # 00-150

LOGGED BY: J. Rickard & B. Nelson SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
989.50	998.50	<b>VARITEXTURED GABBRO</b>  Medium grained to coarse grained to locally pegmatitic, green-grey, hard and not magnetic, somewhat diffuse contacts between textured variations, possibly contains some altered Opx -> locally varitextured Gabbronorite? Cpx 50-60% Plag 40-50%. Strong alteration of Cpx to actinolite. Moderate to strong alteration of Plag Minor sulphide mineralization as medium grained to coarse grained blebby chalcopyrite plus associated pyrite and pyrrhotite?  990.70m - 990.95m: Late Mafic Dike: Very fine grained, dark grey-black very hard, moderately magnetic and locally plag porphyritic. Upper and lower contacts at 40° to core axis.	2	3			386	989.80	991.00	1.20	0.25	>10:1	0.75	0.08	0.09	0.047	0.066	0.004
			2	3			387	991.00	993.00	2.00	0.50	>10:1	1.43	0.13	0.15	0.116	0.109	0.005
			2	3			388	993.00	996.00	3.00	0.25	>10:1	0.73	0.07	0.09	0.058	0.073	0.005
			2	3			389	996.00	998.50	2.50	tr		0.26	0.05	0.05	0.034	0.052	0.005
998.50	1002.75	<b>ALTERED MELANOGABBRO/MELANOGABBRONORITE-CONTACT ZONE</b>  Fine grained to medium grained, green to dark green almost black, moderately hard to very soft and moderately magnetic, local minor white plag rich stringers, moderate fracturing at various degrees to core axis, fractures predominantly serpentine coated, local strong matrix serpentine, predominantly too altered to identify pyroxene type, locally up to 30% Opx. 0 to locally 30% Opx 60-90% Cpx 10-30% Plag	3	3			390	998.50	1000.50	2.00	tr		0.54	0.17	0.04	0.026	0.057	0.008
			3	3			391	1000.50	1002.75	2.25	tr		0.80	0.27	0.04	0.024	0.073	0.008

# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.  
LAC DES ILES MINES LTD.

PROPERTY LC ZONE Roby HOLE # 00-150

LOGGED BY: J. Rickard & B. Nelson SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup> x Matr				SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
998.50	1002.75		<p><b>ALTERED MELANOGABBRO/MELANOGABBRONORITE-CONTACT ZONE (continued)</b></p> <p>Strong to intense alteration of Cpx to actinolite and serpentine. Strong alteration of Plag. Trace to minor fine grained to medium grained disseminated pyrite and chalcopyrite. Note: This section should be probably lumped in with down-hole gabbronorite.</p>															
1002.75	1050.00	<p><b>GABBRONORITE</b></p> <p>Finer medium grained to medium grained to coarser medium grained, medium to dark green-grey, to brownish-green-grey, locally hard to soft and very locally weakly magnetic, overall unit is predominantly medium grained gabbronorite with local relatively narrow sub-sections of Norite, alteration is patchy and quite variable with local sub-sections, that are strongly supentitized, moderate to strong erratic fracturing, commonly moderate to low angle fractures are serpentine coated, most intensely altered subsections exhibit a moderate Plag porphyritic texture. Opx 20-50%. Cpx &lt;10-50% Plag 35-50%. Predominantly strong alteration of Opx, locally weak and locally intense to tremolite +/- talc? +/- serpentine. Moderate to strong alteration of Cpx to actinolite, serpentine and chlorite?</p>					392	1002.75	1005.00	2.25	0.25		0.46	0.08	0.14	0.051	0.057	0.005
							393	1005.00	1008.00	3.00	0.25		0.16	0.03	0.05	0.033	0.048	0.005
							394	1008.00	1011.00	3.00	tr		0.51	0.13	0.05	0.018	0.054	0.006
							395	1011.00	1014.00	3.00	tr		0.52	0.13	0.03	0.021	0.053	0.007
							396	1014.00	1017.00	3.00	0.50		1.36	0.18	0.15	0.075	0.101	0.007
							397	1017.00	1020.00	3.00	tr		0.47	0.12	0.02	0.016	0.048	0.007
							398	1020.00	1023.00	3.00	tr		0.49	0.12	0.01	0.008	0.062	0.008
							399	1023.00	1026.00	3.00	tr		0.58	0.13	0.03	0.016	0.060	0.007
							400	1026.00	1029.00	3.00	tr		0.62	0.15	0.04	0.025	0.068	0.007
							401	1029.00	1032.00	3.00	0.50	1:1	0.76	0.18	0.14	0.065	0.076	0.005
							402	1032.00	1034.10	2.10	tr		0.66	0.14	0.09	0.049	0.067	0.006
							403	1034.10	1036.65	2.55			0.01	0.00	0.01	0.007	0.014	0.003
							404	1036.65	1038.00	1.35			0.36	0.11	0.02	0.013	0.042	0.006
							405	1038.00	1041.00	3.00	tr		0.25	0.06	0.02	0.018	0.036	0.006
							406	1041.00	1044.00	3.00			0.53	0.12	0.04	0.033	0.043	0.005
							407	1044.00	1047.00	3.00	0.50	5:1	0.62	0.10	0.08	0.070	0.062	0.007
							408	1047.00	1050.00	3.00	tr		0.31	0.05	0.06	0.050	0.060	0.006





# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
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 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.-EXPLORATION  
 NORTH AMERICAN PALLADIUM  
 P.O. BOX 10547  
 THUNDER BAY, ON  
 P7B 6T9

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Page Number : 1  
 Total Pages : 2  
 Certificate Date: 08-DEC-2000  
 Invoice No. : 10034948  
 P.O. Number :  
 Account : MZI

Project : 00-150  
 Comments : ATTN: MOE LAVIGNE

**CERTIFICATE OF ANALYSIS**      **A0034948**

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-150-001	1388 276	2	45	172	28	0.0028	93	0.0093	24	0.0024
00-150-002	1388 276	4	60	252	27	0.0027	122	0.0122	26	0.0026
00-150-003	1388 276	4	30	188	31	0.0031	77	0.0077	19	0.0019
00-150-004	1388 276	10	15	68	42	0.0042	72	0.0072	14	0.0014
00-150-005	1388 276	6	20	86	52	0.0052	63	0.0063	13	0.0013
00-150-006	1388 276	8	15	92	48	0.0048	84	0.0084	18	0.0018
00-150-007	1388 276	20	15	76	54	0.0054	97	0.0097	20	0.0020
00-150-008	1388 276	6	25	124	43	0.0043	108	0.0108	30	0.0030
00-150-009	1388 276	< 2	10	130	20	0.0020	101	0.0101	26	0.0026
00-150-010	1388 276	10	30	128	25	0.0025	107	0.0107	27	0.0027
00-150-011	1388 276	30	25	112	31	0.0031	164	0.0164	38	0.0038
00-150-012	1388 276	6	15	82	27	0.0027	163	0.0163	41	0.0041
00-150-013	1388 276	2	10	46	22	0.0022	151	0.0151	37	0.0037
00-150-014	1388 276	2	5	40	17	0.0017	28	0.0028	11	0.0011
00-150-015	1388 276	2	< 5	12	16	0.0016	45	0.0045	12	0.0012
00-150-016	1388 276	< 2	< 5	< 2	16	0.0016	21	0.0021	9	0.0009
00-150-017	1388 276	6	20	86	31	0.0031	191	0.0191	41	0.0041
00-150-018	1388 276	2	30	90	35	0.0035	153	0.0153	34	0.0034
00-150-019	1388 276	4	30	100	29	0.0029	134	0.0134	33	0.0033
00-150-020	1388 276	4	30	92	15	0.0015	114	0.0114	27	0.0027
00-150-021	1388 276	< 2	40	134	26	0.0026	65	0.0065	15	0.0015
00-150-022	1388 276	4	20	78	30	0.0030	67	0.0067	15	0.0015
00-150-023	1388 276	4	35	108	61	0.0061	49	0.0049	10	0.0010
00-150-024	1388 276	6	20	84	56	0.0056	52	0.0052	11	0.0011
00-150-025	1388 276	6	25	86	67	0.0067	58	0.0058	13	0.0013
00-150-026	1388 276	6	25	78	76	0.0076	59	0.0059	14	0.0014
00-150-027	1388 276	4	10	84	70	0.0070	96	0.0096	20	0.0020
00-150-028	1388 276	6	25	88	65	0.0065	79	0.0079	15	0.0015
00-150-029	1388 276	8	20	98	64	0.0064	83	0.0083	17	0.0017
00-150-030	1388 276	4	20	62	53	0.0053	150	0.0150	28	0.0028
00-150-031	1388 276	4	20	86	78	0.0078	95	0.0095	20	0.0020
00-150-032	1388 276	< 2	20	60	48	0.0048	90	0.0090	18	0.0018
00-150-033	1388 276	2	25	90	93	0.0093	81	0.0081	12	0.0012
00-150-034	1388 276	4	35	76	77	0.0077	75	0.0075	11	0.0011
00-150-035	1388 276	10	25	270	189	0.0189	165	0.0165	27	0.0027
00-150-036	1388 276	8	40	162	67	0.0067	106	0.0106	20	0.0020
00-150-037	1388 276	12	50	268	86	0.0086	92	0.0092	18	0.0018
00-150-038	1388 276	8	50	238	104	0.0104	123	0.0123	20	0.0020
00-150-039	1388 276	6	45	122	74	0.0074	109	0.0109	22	0.0022
00-150-040	1388 276	6	25	88	77	0.0077	107	0.0107	22	0.0022

CERTIFICATION: \_\_\_\_\_





# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
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To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
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Project: 00-150  
 Comments: ATTN: MOE LAVIGNE

Page Number : 1  
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 Certificate Date: 11-DEC-2000  
 Invoice No. : 10035137  
 P.O. Number :  
 Account : MZI

## CERTIFICATE OF ANALYSIS A0035137

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-150-049	1388 276	2	25	78	67	0.0067	119	0.0119	21	0.0021
00-150-050	1388 276	2	25	68	42	0.0042	187	0.0187	35	0.0035
00-150-051	1388 276	4	25	76	68	0.0068	142	0.0142	26	0.0026
00-150-052	1388 276	4	30	82	78	0.0078	95	0.0095	14	0.0014
00-150-053	1388 276	2	15	70	59	0.0059	115	0.0115	21	0.0021
00-150-054	1388 276	4	25	80	48	0.0048	94	0.0094	15	0.0015
00-150-055	1388 276	4	20	78	49	0.0049	132	0.0132	12	0.0012
00-150-056	1388 276	4	35	86	43	0.0043	98	0.0098	12	0.0012
00-150-057	1388 276	4	35	86	39	0.0039	71	0.0071	7	0.0007
00-150-058	1388 276	4	30	98	44	0.0044	105	0.0105	14	0.0014
00-150-059	1388 276	4	30	92	94	0.0094	128	0.0128	19	0.0019
00-150-060	1388 276	4	25	86	66	0.0066	227	0.0227	16	0.0016
00-150-061	1388 276	6	35	96	107	0.0107	126	0.0126	20	0.0020
00-150-062	1388 276	6	20	92	107	0.0107	162	0.0162	21	0.0021
00-150-063	1388 276	4	30	88	57	0.0057	99	0.0099	18	0.0018
00-150-064	1388 276	6	30	108	88	0.0088	107	0.0107	15	0.0015
00-150-065	1388 276	6	45	112	86	0.0086	106	0.0106	19	0.0019
00-150-066	1388 276	6	15	106	71	0.0071	148	0.0148	28	0.0028
00-150-067	1388 276	8	35	124	108	0.0108	176	0.0176	36	0.0036
00-150-068	1388 276	4	30	88	68	0.0068	168	0.0168	34	0.0034
00-150-069	1388 276	4	< 5	74	82	0.0082	125	0.0125	28	0.0028
00-150-070	1388 276	30	35	88	111	0.0111	163	0.0163	28	0.0028
00-150-071	1388 276	22	30	94	88	0.0088	143	0.0143	23	0.0023
00-150-072	1388 276	4	25	110	62	0.0062	91	0.0091	10	0.0010
00-150-073	1388 276	4	30	106	60	0.0060	73	0.0073	10	0.0010
00-150-074	1388 276	82	50	280	892	0.0892	400	0.0400	30	0.0030
00-150-075	1388 276	38	20	138	421	0.0421	217	0.0217	22	0.0022
00-150-076	1388 276	32	25	144	429	0.0429	165	0.0165	18	0.0018
00-150-077	1388 276	48	30	162	974	0.0974	462	0.0462	48	0.0048
00-150-077B	1388 276	6	10	24	104	0.0104	59	0.0059	17	0.0017
00-150-078	1388 276	18	10	72	339	0.0339	210	0.0210	27	0.0027
150-STA-010	214 238	236	280	3320	1220	0.1220	1095	0.1095	42	0.0042

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# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

Project: 00-150  
 Comments: ATTN: MOE LAVIGNE

Page Number :1  
 Total Pages :1  
 Certificate Date: 12-DEC-2000  
 Invoice No. : I0035148  
 P.O. Number :  
 Account : MZI

## CERTIFICATE OF ANALYSIS

A0035148

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-150-079	1388 276	14	25	96	231	0.0231	154	0.0154	28	0.0028
00-150-080	1388 276	38	55	296	380	0.0380	243	0.0243	31	0.0031
00-150-081	1388 276	14	30	128	141	0.0141	193	0.0193	35	0.0035
00-150-082	1388 276	144	125	476	1985	0.1985	901	0.0901	62	0.0062
00-150-083	1388 276	84	90	480	1425	0.1425	1155	0.1155	65	0.0065
00-150-084	1388 276	184	80	514	1490	0.1490	1235	0.1235	84	0.0084
00-150-085	1388 276	112	80	432	1350	0.1350	776	0.0776	61	0.0061
00-150-086	1388 276	148	90	524	1785	0.1785	703	0.0703	45	0.0045
00-150-087	1388 276	38	20	104	494	0.0494	180	0.0180	27	0.0027
00-150-088	1388 276	28	15	84	465	0.0465	183	0.0183	36	0.0036
00-150-089	1388 276	30	20	126	661	0.0661	333	0.0333	38	0.0038
00-150-090	1388 276	18	30	158	304	0.0304	301	0.0301	42	0.0042
00-150-091	1388 276	22	30	180	279	0.0279	299	0.0299	44	0.0044
00-150-092	1388 276	44	220	1220	1620	0.1620	3540	0.3540	175	0.0175
00-150-093	1388 276	34	25	172	472	0.0472	176	0.0176	25	0.0025
00-150-094	1388 276	56	40	270	1105	0.1105	705	0.0705	48	0.0048
00-150-095	1388 276	290	125	812	4990	0.4990	2720	0.2720	141	0.0141
00-150-096	1388 276	106	65	392	1315	0.1315	1295	0.1295	97	0.0097
00-150-097	1388 276	14	10	86	189	0.0189	176	0.0176	52	0.0052
00-150-098	1388 276	10	10	54	118	0.0118	121	0.0121	26	0.0026
00-150-099	1388 276	10	15	66	123	0.0123	122	0.0122	27	0.0027
00-150-100	1388 276	10	15	86	68	0.0068	176	0.0176	41	0.0041
00-150-101	1388 276	8	10	60	89	0.0089	128	0.0128	42	0.0042
00-150-102	1388 276	8	20	88	44	0.0044	93	0.0093	34	0.0034
150-STA-013	214 238	280	280	3150	1245	0.1245	1135	0.1135	41	0.0041

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# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

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Page Number :1  
 Total Pages :2  
 Certificate Date: 14-DEC-2000  
 Invoice No. :10035250  
 P.O. Number :  
 Account :MZI

Project : 00-150  
 Comments: ATTN: MOE LAVIGNE

## CERTIFICATE OF ANALYSIS A0035250

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-150-103	1388 276	2	10	48	106	0.0106	90	0.0090	63	0.0063
00-150-104	1388 276	2	< 5	20	111	0.0111	73	0.0073	46	0.0046
00-150-105	1388 276	2	10	54	34	0.0034	45	0.0045	17	0.0017
00-150-106	1388 294	< 2	< 5	22	24	0.0024	40	0.0040	14	0.0014
00-150-107	1388 294	14	< 5	40	434	0.0434	108	0.0108	17	0.0017
00-150-108	1388 294	288	760	3270	3940	0.3940	>10000	>1.0000	774	0.0774
00-150-109	1388 276	6	125	192	275	0.0275	910	0.0910	73	0.0073
00-150-110	1388 276	8	15	112	598	0.0598	455	0.0455	72	0.0072
00-150-111	1388 294	6	5	18	54	0.0054	92	0.0092	26	0.0026
00-150-112	1388 294	2	< 5	28	129	0.0129	83	0.0083	26	0.0026
00-150-113	1388 294	< 2	< 5	12	35	0.0035	97	0.0097	31	0.0031
00-150-114	1388 276	< 2	< 5	18	29	0.0029	94	0.0094	28	0.0028
00-150-115	1388 276	< 2	< 5	14	23	0.0023	152	0.0152	37	0.0037
00-150-116	1388 276	2	5	24	112	0.0112	139	0.0139	34	0.0034
00-150-117	1388 276	4	10	58	100	0.0100	173	0.0173	42	0.0042
00-150-118	1388 276	16	25	182	749	0.0749	429	0.0429	70	0.0070
00-150-119	1388 276	24	30	256	1270	0.1270	596	0.0596	105	0.0105
00-150-120	1388 276	16	< 10	136	741	0.0741	465	0.0465	68	0.0068
00-150-121	1388 276	14	25	152	630	0.0630	487	0.0487	102	0.0102
00-150-122	1388 276	36	20	156	589	0.0589	577	0.0577	164	0.0164
00-150-123	1388 276	14	35	198	1195	0.1195	523	0.0523	60	0.0060
00-150-124	1388 294	2	< 5	18	74	0.0074	84	0.0084	23	0.0023
00-150-125	1388 294	2	< 5	42	24	0.0024	110	0.0110	30	0.0030
00-150-126	1388 276	2	< 5	50	28	0.0028	151	0.0151	44	0.0044
00-150-127	1388 276	< 2	< 5	56	23	0.0023	220	0.0220	41	0.0041
00-150-128	1388 294	< 2	< 5	20	15	0.0015	76	0.0076	27	0.0027
00-150-129	1388 294	2	< 5	12	19	0.0019	142	0.0142	51	0.0051
00-150-130	1388 294	< 2	< 5	16	19	0.0019	115	0.0115	38	0.0038
00-150-131	1388 294	< 2	< 5	32	14	0.0014	128	0.0128	40	0.0040
00-150-132	1388 276	< 2	< 5	26	25	0.0025	91	0.0091	30	0.0030
00-150-133	1388 276	< 2	< 5	14	19	0.0019	71	0.0071	31	0.0031
00-150-134	1388 276	6	< 5	46	320	0.0320	230	0.0230	70	0.0070
00-150-135	1388 276	10	15	86	442	0.0442	354	0.0354	84	0.0084
00-150-136	1388 276	4	< 5	28	111	0.0111	132	0.0132	40	0.0040
00-150-137	1388 276	6	10	70	171	0.0171	286	0.0286	66	0.0066
00-150-138	1388 276	< 2	10	92	27	0.0027	465	0.0465	99	0.0099
00-150-139	1388 276	< 2	< 5	24	36	0.0036	87	0.0087	29	0.0029
00-150-140	1388 276	< 2	< 5	20	19	0.0019	108	0.0108	39	0.0039
00-150-141	1388 276	2	< 5	14	21	0.0021	102	0.0102	33	0.0033
00-150-142	1388 294	6	10	244	54	0.0054	142	0.0142	34	0.0034

CERTIFICATION:  \*



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

Project: 00-150  
 Comments: ATTN: MOE LAVIGNE

Page Number :2  
 Total Pages :2  
 Certificate Date: 14-DEC-2000  
 Invoice No. : I0035250  
 P.O. Number :  
 Account : MZI

## CERTIFICATE OF ANALYSIS A0035250

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-150-143	1388 294	< 2	< 5	22	25	0.0025	138	0.0138	44	0.0044
00-150-144	1388 294	6	15	66	132	0.0132	449	0.0449	110	0.0110
00-150-145	1388 276	14	15	82	416	0.0416	408	0.0408	48	0.0048
00-150-146	1388 276	10	15	100	200	0.0200	185	0.0185	47	0.0047
00-150-147	1388 294	6	< 5	54	52	0.0052	92	0.0092	27	0.0027
00-150-148	1388 294	6	< 5	72	74	0.0074	64	0.0064	18	0.0018
00-150-149	1388 294	6	< 5	106	53	0.0053	81	0.0081	19	0.0019
00-150-150	1388 276	8	< 5	78	48	0.0048	76	0.0076	19	0.0019
00-150-151	1388 294	4	< 5	62	45	0.0045	74	0.0074	18	0.0018
00-150-152	1388 276	4	10	62	46	0.0046	70	0.0070	16	0.0016
00-150-153	1388 276	8	10	64	89	0.0089	104	0.0104	25	0.0025
00-150-154	1388 276	4	< 5	46	27	0.0027	118	0.0118	24	0.0024
00-150-155	1388 276	2	< 5	22	20	0.0020	166	0.0166	26	0.0026
00-150-156	1388 276	4	< 5	28	23	0.0023	235	0.0235	29	0.0029
00-150-157	1388 276	2	< 5	22	22	0.0022	224	0.0224	31	0.0031
00-150-158	1388 276	2	< 5	16	17	0.0017	117	0.0117	26	0.0026
00-150-159	1388 276	4	< 5	10	20	0.0020	123	0.0123	31	0.0031
00-150-160	1388 276	2	< 5	12	24	0.0024	130	0.0130	29	0.0029
00-150-161	1388 276	2	< 5	14	23	0.0023	138	0.0138	25	0.0025
00-150-162	1388 276	2	< 5	12	25	0.0025	241	0.0241	31	0.0031
00-150-163	1388 276	6	< 5	20	48	0.0048	107	0.0107	22	0.0022
00-150-164	1388 276	8	20	18	47	0.0047	103	0.0103	24	0.0024
00-150-165	1388 276	8	15	40	74	0.0074	191	0.0191	32	0.0032
00-150-166	1388 276	6	15	60	39	0.0039	370	0.0370	52	0.0052
00-150-167	1388 276	6	< 5	54	36	0.0036	331	0.0331	63	0.0063
00-150-168	1388 294	6	35	84	27	0.0027	416	0.0416	72	0.0072
150-STA-020	214 238	278	265	2910	1270	0.1270	1105	0.1105	39	0.0039

CERTIFICATION: \*



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

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Page Number : 1  
 Total Pages : 1  
 Certificate Date: 18-DEC-2000  
 Invoice No. : 10035372  
 P.O. Number :  
 Account : MZI

Project : 00-150  
 Comments : ATTN: MOE LAVIGNE

## CERTIFICATE OF ANALYSIS A0035372

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-150-169	1388 276	< 2	< 5	86	33	0.0033	246	0.0246	51	0.0051
00-150-170	1388 276	2	10	76	35	0.0035	254	0.0254	55	0.0055
00-150-171	1388 276	14	45	74	55	0.0055	253	0.0253	53	0.0053
00-150-172	1388 276	2	10	14	57	0.0057	185	0.0185	44	0.0044
00-150-173	1388 276	< 2	< 5	30	58	0.0058	218	0.0218	50	0.0050
00-150-174	1388 276	< 2	< 5	20	32	0.0032	116	0.0116	33	0.0033
00-150-175	1388 276	< 2	5	18	57	0.0057	119	0.0119	36	0.0036
00-150-176	1388 276	< 2	< 5	22	42	0.0042	76	0.0076	22	0.0022
00-150-177	1388 276	2	5	26	27	0.0027	57	0.0057	17	0.0017
00-150-178	1388 276	< 2	< 5	26	27	0.0027	59	0.0059	18	0.0018
00-150-179	1388 276	< 2	< 5	26	25	0.0025	58	0.0058	18	0.0018
00-150-180	1388 276	2	< 5	28	55	0.0055	89	0.0089	21	0.0021
00-150-181	1388 276	< 2	5	20	66	0.0066	74	0.0074	19	0.0019
00-150-182	1388 276	2	< 5	20	85	0.0085	73	0.0073	24	0.0024
00-150-183	1388 276	< 2	< 5	8	108	0.0108	35	0.0035	17	0.0017
00-150-184	1388 276	4	5	8	98	0.0098	43	0.0043	18	0.0018
00-150-185	1388 276	2	5	10	96	0.0096	46	0.0046	20	0.0020
00-150-186	1388 276	2	< 5	10	117	0.0117	52	0.0052	20	0.0020
00-150-187	1388 276	2	< 5	12	129	0.0129	53	0.0053	17	0.0017
00-150-188	1388 276	2	10	12	102	0.0102	42	0.0042	17	0.0017
00-150-189	1388 276	< 2	< 5	12	86	0.0086	44	0.0044	19	0.0019
00-150-190	1388 276	2	< 5	14	82	0.0082	44	0.0044	20	0.0020
00-150-191	1388 276	2	< 5	14	96	0.0096	47	0.0047	17	0.0017
00-150-192	1388 276	2	10	14	100	0.0100	59	0.0059	21	0.0021
00-150-193	1388 276	< 2	< 5	2	17	0.0017	69	0.0069	16	0.0016
00-150-194	1388 276	< 2	< 5	2	5	0.0005	67	0.0067	14	0.0014
00-150-195	1388 276	4	< 5	12	72	0.0072	45	0.0045	14	0.0014
00-150-196	1388 276	< 2	10	18	73	0.0073	47	0.0047	19	0.0019
00-150-197	1388 276	4	5	14	76	0.0076	53	0.0053	19	0.0019
00-150-198	1388 276	2	10	14	72	0.0072	49	0.0049	19	0.0019
00-150-199	1388 276	4	15	16	90	0.0090	47	0.0047	16	0.0016
00-150-200	1388 276	4	< 5	18	77	0.0077	60	0.0060	19	0.0019
00-150-201	1388 276	2	5	16	72	0.0072	45	0.0045	14	0.0014
00-150-202	1388 276	2	5	16	69	0.0069	48	0.0048	14	0.0014
00-150-203	1388 276	4	10	16	61	0.0061	56	0.0056	21	0.0021
00-150-204	1388 276	4	< 5	16	57	0.0057	58	0.0058	18	0.0018
00-150-205	1388 276	4	< 5	20	79	0.0079	58	0.0058	19	0.0019
00-150-206	1388 276	2	< 5	18	67	0.0067	54	0.0054	15	0.0015
00-150-207	1388 276	2	10	28	73	0.0073	53	0.0053	16	0.0016
150-STA-026	214 238	276	300	3510	1325	0.1325	1175	0.1175	43	0.0043

CERTIFICATION: \_\_\_\_\_



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

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Page Number : 1  
 Total Pages : 2  
 Certificate Date: 03-JAN-2001  
 Invoice No. : I0035698  
 P.O. Number :  
 Account : MZI

Project : 00-150  
 Comments: ATTN: MOE LAVIGNE

## CERTIFICATE OF ANALYSIS A0035698

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Pd g/t	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-150-208	1388 276	2	25	64	-----	-----	-----	-----	-----	-----	-----
00-150-209	1388 276	8	30	112	-----	-----	-----	-----	-----	-----	-----
00-150-210	1388 276	< 2	15	34	-----	-----	-----	-----	-----	-----	-----
00-150-211	1388 276	2	10	32	-----	-----	-----	-----	-----	-----	-----
00-150-212	1388 276	< 2	5	22	-----	-----	-----	-----	-----	-----	-----
00-150-213	1388 276	6	20	26	-----	-----	-----	-----	-----	-----	-----
00-150-214	1388 276	4	15	26	-----	-----	-----	-----	-----	-----	-----
00-150-215	1388 276	6	20	28	-----	-----	-----	-----	-----	-----	-----
00-150-216	1388 276	6	15	28	-----	-----	-----	-----	-----	-----	-----
00-150-217	1388 276	4	20	30	-----	-----	-----	-----	-----	-----	-----
00-150-218	1388 276	4	20	32	-----	-----	-----	-----	-----	-----	-----
00-150-219	1388 276	4	10	24	-----	-----	-----	-----	-----	-----	-----
00-150-220	1388 276	6	25	84	-----	-----	-----	-----	-----	-----	-----
00-150-221	1388 276	6	15	74	-----	67	0.0067	65	0.0065	22	0.0022
00-150-222	1388 276	4	20	50	-----	87	0.0087	50	0.0050	25	0.0025
00-150-223	1388 276	6	15	28	-----	49	0.0049	50	0.0050	20	0.0020
00-150-224	1388 276	4	15	22	-----	50	0.0050	45	0.0045	17	0.0017
00-150-225	1388 276	4	15	20	-----	52	0.0052	49	0.0049	18	0.0018
00-150-226	1388 276	2	5	26	-----	44	0.0044	79	0.0079	27	0.0027
00-150-227	1388 276	4	10	28	-----	58	0.0058	78	0.0078	24	0.0024
00-150-228	1388 276	4	15	26	-----	47	0.0047	57	0.0057	21	0.0021
00-150-229	1388 276	4	15	32	-----	66	0.0066	53	0.0053	17	0.0017
00-150-230	1388 276	6	15	28	-----	59	0.0059	48	0.0048	13	0.0013
00-150-231	1388 276	58	45	214	-----	1430	0.1430	472	0.0472	45	0.0045
00-150-232	1388 294	36	40	212	-----	955	0.0955	434	0.0434	36	0.0036
00-150-233	1388 294	226	305	3500	-----	1285	0.1285	901	0.0901	49	0.0049
00-150-234	1388 276	346	310	3580	-----	2210	0.2210	1185	0.1185	67	0.0067
00-150-235	1388 276	136	125	1305	-----	978	0.0978	495	0.0495	40	0.0040
00-150-236	1388 294	6	10	30	-----	82	0.0082	77	0.0077	18	0.0018
00-150-237	1388 294	112	500	6370	-----	697	0.0697	709	0.0709	62	0.0062
00-150-238	1388 276	576	650	>10000	13.15	1105	0.1105	961	0.0961	61	0.0061
00-150-239	1388 276	168	525	9350	-----	399	0.0399	502	0.0502	41	0.0041
00-150-240	1388 294	396	570	9330	-----	1125	0.1125	850	0.0850	64	0.0064
00-150-241	1388 294	190	435	5080	-----	436	0.0436	737	0.0737	33	0.0033
00-150-242	1388 276	466	260	4310	-----	904	0.0904	928	0.0928	37	0.0037
00-150-243	1388 276	476	210	2800	-----	1030	0.1030	798	0.0798	43	0.0043
00-150-244	1388 276	230	215	2880	-----	741	0.0741	651	0.0651	38	0.0038
00-150-245	1388 276	224	460	>10000	10.70	586	0.0586	849	0.0849	41	0.0041
00-150-246	1388 276	86	410	6200	-----	267	0.0267	735	0.0735	32	0.0032
00-150-247	1388 226	22	140	1735	-----	50	0.0050	393	0.0393	25	0.0025

CERTIFICATION: SAS/10/01 \*



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

Project: 00-150  
 Comments: ATTN: MOE LAVIGNE

Page Number :2  
 Total Pages :2  
 Certificate Date: 03-JAN-2001  
 Invoice No. : I0035698  
 P.O. Number :  
 Account : MZI

## CERTIFICATE OF ANALYSIS A0035698

SAMPLE	PREP CODE		Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Pd g/t	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-150-248	1388	294	46	15	106	-----	197	0.0197	50	0.0050	25	0.0025
00-150-249	1388	226	194	225	2810	-----	529	0.0529	672	0.0672	32	0.0032
00-150-250	1388	276	380	370	5870	-----	836	0.0836	733	0.0733	35	0.0035
00-150-251	1388	276	202	220	3050	-----	516	0.0516	459	0.0459	27	0.0027
00-150-252	1388	276	228	105	480	-----	623	0.0623	450	0.0450	31	0.0031
00-150-253	1388	294	114	100	392	-----	490	0.0490	447	0.0447	32	0.0032
00-150-254	1388	276	164	115	1025	-----	540	0.0540	615	0.0615	34	0.0034
00-150-255	1388	276	248	260	1720	-----	1040	0.1040	892	0.0892	43	0.0043
00-150-256	1388	226	40	40	198	-----	131	0.0131	92	0.0092	28	0.0028
00-150-257	1388	276	12	15	92	-----	116	0.0116	24	0.0024	25	0.0025
00-150-258	1388	276	14	10	14	-----	87	0.0087	44	0.0044	35	0.0035
00-150-259	1388	294	12	20	78	-----	34	0.0034	197	0.0197	27	0.0027
00-150-260	1388	276	46	255	2090	-----	739	0.0739	824	0.0824	43	0.0043
00-150-261	1388	276	46	265	2050	-----	1180	0.1180	775	0.0775	33	0.0033
00-150-262	1388	276	170	365	3580	-----	1590	0.1590	1430	0.1430	52	0.0052
150-STA-037	214	238	476	290	3560	-----	1270	0.1270	1180	0.1180	44	0.0044

CERTIFICATION: \_\_\_\_\_



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 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.-EXPLORATION  
 NORTH AMERICAN PALLADIUM  
 P.O. BOX 10547  
 THUNDER BAY, ON  
 P7B 6T9

Page Number :1-A  
 Total Pages :3  
 Certificate Date: 10-AUG-2001  
 Invoice No. : 10121346  
 P.O. Number : 1000177  
 Account : MZ1

Project : #1033-00-150  
 Comments : ATTN: MOE LAVIGNE

## CERTIFICATE OF ANALYSIS A0121346

SAMPLE	PREP CODE		Pd ppb	Pt ppb	Au ppb	Pd ppm	Al2O3	Fe2O3	MgO	Cu %	Ni %	Co %	Fe %	S %	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	
	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS	% Calc	% Calc	% Calc	calc.	calc.	calc.	{ICP}	{ICP}	{ICP}	{ICP}	{ICP}	{ICP}	{ICP}	{ICP}	{ICP}	{ICP}	
00-150-27A-194	1388	285	3100	264	270	-----	16.00	6.41	9.78	0.1215	D.1380	0.0065	4.48	0.36	< 0.5	8.47	< 5	50	< 0.5	< 2	5.6	
00-150-263	1388	276	1730	278	105	-----																
00-150-264	1388	276	1080	135.0	15	-----																
00-150-265	1388	276	920	87.5	20	-----																
00-150-266	1388	294	830	114.5	14	-----																
00-150-267	1388	276	640	183.5	7	-----																
00-150-268	1388	276	880	150.0	11	-----																
00-150-269	1388	294	740	185.0	5	-----																
00-150-270	1388	294	550	65.5	2	-----																
00-150-271	1388	226	10	2.5	8	-----																
00-150-272	1388	276	28	4.0	< 1	-----																
00-150-273	1388	276	13	4.0	< 1	-----																
00-150-274	1388	276	19	6.0	< 1	-----																
00-150-275	1388	226	2	0.5	< 1	-----																
00-150-276	1388	294	4	1.0	1	-----																
00-150-277	1388	294	20	4.5	3	-----																
00-150-278	1388	276	13	4.0	< 1	-----																
00-150-279	1388	294	15	5.0	< 1	-----																
00-150-280	1388	226	2	0.5	11	-----																
00-150-281	1388	294	17	6.0	1	-----																
00-150-282	1388	226	1	2.0	2	-----																
00-150-283	1388	294	15	5.0	1	-----																
00-150-284	1388	276	16	5.0	1	-----																
00-150-285	1388	276	16	5.0	1	-----																
00-150-286	1388	276	16	5.0	1	-----																
00-150-287	1388	276	19	5.5	3	-----																
00-150-288	1388	276	20	5.5	1	-----																
00-150-289	1388	276	19	5.0	1	-----																
00-150-290	1388	276	20	5.5	1	-----																
00-150-291	1388	276	19	5.0	1	-----																
00-150-292	1388	276	21	5.5	1	-----																
00-150-293	1388	276	23	5.5	2	-----																
00-150-294	1388	276	20	5.0	1	-----																
00-150-295	1388	276	19	4.5	2	-----																
00-150-296	1388	276	16	4.0	7	-----																
00-150-297	1388	276	17	4.0	1	-----																
00-150-298	1388	276	19	4.5	1	-----																
00-150-299	1388	276	22	5.5	2	-----																
00-150-300	1388	276	20	5.0	1	-----																
00-150-301	1388	276	23	5.5	2	-----																

CERTIFICATION: \_\_\_\_\_



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.-EXPLORATION  
 NORTH AMERICAN PALLADIUM  
 P.O. BOX 10547  
 THUNDER BAY, ON  
 P7B 6T9

Page Number :2-8  
 Total Pages :3  
 Certificate Date: 10-AUG-2001  
 Invoice No. :10121346  
 P.O. Number :1000177  
 Account :MZI

Project : #1033-00-150  
 Comments: ATTN: MOE LAVIGNE

## CERTIFICATE OF ANALYSIS A0121346

SAMPLE	PREP		Cd ppm	Cr ppm	K %	Mg %	Mn ppm	Mo ppm	Na %	P ppm	Pb ppm	Sb ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm	Cu ppm	Ni ppm	Co ppm	
	CODE		(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	
00-150-302	1388	276	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
00-150-303	1388	276	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
00-150-304	1388	276	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
00-150-305	1388	254	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
00-150-306	1388	226	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
00-150-307	1388	226	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
00-150-308	1388	276	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
00-150-309	1388	276	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
00-150-310	1388	276	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
00-150-311	1388	276	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
00-150-312	1388	276	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
00-150-313	1388	276	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
00-150-314	1388	276	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
00-150-315	1388	276	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
00-150-316	1388	294	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
00-150-317	1388	276	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
00-150-318	1388	276	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
00-150-319	1388	294	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
00-150-320	1388	276	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
00-150-321	1388	276	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
00-150-322	1388	294	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
00-150-323	1388	294	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
00-150-324	1388	226	0.5	74	0.07	7.60	1530	1	0.46	10	14	10	45	0.10	188	< 10	122	1325	698	110	
00-150-325	1388	294	0.5	93	0.07	7.81	1530	1	0.40	< 10	< 2	< 5	43	0.11	217	< 10	80	1465	765	103	
00-150-326	1388	294	< 0.5	95	0.16	5.39	1115	< 1	1.36	< 10	< 2	5	193	0.11	196	< 10	50	509	376	65	
00-150-327	1388	294	< 0.5	89	0.32	6.20	1140	1	1.16	30	< 2	15	161	0.09	173	< 10	54	1445	811	82	
00-150-328	1388	294	0.5	132	0.06	8.78	1410	< 1	0.25	10	< 2	< 5	22	0.08	160	< 10	70	1260	898	99	
00-150-329	1388	294	0.5	99	0.49	6.03	965	< 1	1.13	30	< 2	5	177	0.07	115	< 10	54	2440	1540	93	
00-150-330	1388	226	< 0.5	235	0.08	9.99	1310	< 1	0.21	10	< 2	20	29	0.07	146	< 10	80	1890	1830	111	
00-150-331	1388	226	< 0.5	188	0.04	10.32	1330	< 1	0.15	10	< 2	10	19	0.08	140	< 10	64	1465	1720	104	
00-150-332	1388	226	0.5	195	0.04	10.90	1405	< 1	0.16	< 10	< 2	10	18	0.07	146	< 10	62	557	942	94	
00-150-333	1388	226	0.5	157	0.13	8.27	1150	1	1.22	20	< 2	< 5	106	0.06	111	< 10	62	919	1115	79	
00-150-334	1388	226	0.5	158	0.17	7.96	1120	1	1.30	20	2	5	129	0.06	109	< 10	76	889	1110	75	
00-150-335	1388	294	0.5	235	0.20	8.57	1100	1	0.89	10	< 2	5	79	0.06	118	< 10	62	735	829	78	
00-150-336	1388	294	< 0.5	185	0.34	7.32	1005	1	1.03	< 10	< 2	5	130	0.05	103	< 10	48	814	1065	73	
00-150-337	1388	294	< 0.5	299	0.13	8.72	1050	1	0.77	20	< 2	5	105	0.05	114	< 10	48	223	660	69	
00-150-338	1388	226	< 0.5	108	0.48	3.93	635	1	1.98	30	< 2	< 5	283	0.06	70	< 10	42	416	432	41	
00-150-339	1388	294	< 0.5	< 1	1.22	1.39	620	< 1	3.20	1220	2	< 5	674	0.55	107	< 10	94	58	15	21	
00-150-340	1388	226	< 0.5	64	0.58	3.48	630	1	1.87	60	< 2	5	299	0.08	77	< 10	44	2400	1470	60	
00-150-341	1388	294	< 0.5	82	0.30	4.31	620	1	1.53	10	< 2	< 5	206	0.05	70	< 10	34	633	784	47	

CERTIFICATION: \_\_\_\_\_



# ALS Chemex

Aurora Laboratory Services Ltd  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.-EXPLORATION  
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 P.O. BOX 10547  
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Page Number :3-A  
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Project : #1033-00-150  
 Comments: ATTN: MOE LAVIGNE

<b>CERTIFICATE OF ANALYSIS</b>	<b>A0121346</b>
--------------------------------	-----------------

SAMPLE	PREP		Pd ppb	Pt ppb	Au ppb	Pd ppm	Al2O3	Fe2O3	MgO	Cu %	Ni %	Co %	Fe %	S %	Ag ppm	Al %	As ppm	Be ppm	Se ppm	Bi ppm	Ca %
	CODE		ICP-MS	ICP-MS	ICP-MS	ICP-MS	% Calc	% Calc	% Calc	calc.	calc.	calc.	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)
00-150-342	1388	294	6200	480	900	-----	16.80	6.52	9.24	0.0997	0.1405	0.0058	4.56	0.33	< 0.5	8.89	< 5	100	< 0.5	< 2	5.3
00-150-343	1388	226	8700	494	420	-----	13.85	6.29	11.15	0.1220	0.1610	0.0066	4.40	0.32	< 0.5	7.33	< 5	60	< 0.5	< 2	4.5
00-150-344	1388	226	>1000	617	550	12.60	12.63	7.82	13.90	0.1000	0.1485	0.0076	5.47	0.35	< 0.5	6.70	< 5	30	< 0.5	< 2	3.9
00-150-345	1388	294	>1000	599	330	11.00	10.00	7.39	16.05	0.0602	0.1305	0.0074	5.17	0.15	< 0.5	5.29	< 5	20	< 0.5	< 2	3.8
00-150-346	1388	294	6600	395	185	-----	13.10	6.79	15.00	0.0405	0.1005	0.0063	4.75	0.10	< 0.5	6.92	< 5	30	< 0.5	< 2	4.4
00-150-346B	1388	294	1200	73.0	24	-----	13.85	8.46	8.80	0.0114	0.0172	0.0055	5.92	0.11	< 0.5	7.34	< 5	60	< 0.5	< 2	6.9
00-150-347	1388	226	6600	493	360	-----	16.60	5.85	12.05	0.1245	0.1280	0.0060	4.09	0.28	< 0.5	8.79	< 5	40	< 0.5	2	5.2
00-150-348	1388	226	7900	498	620	-----	15.15	6.28	13.20	0.0970	0.1530	0.0075	4.39	0.34	< 0.5	8.03	< 5	30	< 0.5	< 2	4.8
00-150-349	1388	294	840	81.0	450	-----	17.30	5.58	12.50	0.0506	0.1090	0.0055	3.90	0.11	< 0.5	9.16	< 5	60	< 0.5	< 2	5.5
00-150-350	1388	294	2100	133.0	165	-----	19.65	4.72	9.57	0.0177	0.0697	0.0044	3.30	0.06	< 0.5	10.41	< 5	50	< 0.5	< 2	6.2
00-150-351	1388	276	3500	232	55	-----	19.25	5.42	8.09	0.0152	0.0530	0.0041	3.79	0.07	< 0.5	10.20	< 5	100	< 0.5	< 2	5.9
00-150-352	1388	294	4500	322	110	-----	21.3	4.37	6.95	0.0434	0.0705	0.0041	3.06	0.12	< 0.5	11.37	< 5	50	< 0.5	< 2	6.9
00-150-353	1388	294	2400	167.5	33	-----	16.70	2.85	4.28	0.0171	0.0398	0.0025	1.99	0.07	< 0.5	8.83	< 5	100	< 0.5	< 2	3.6
00-150-354	1388	276	6400	472	210	-----	18.95	5.35	9.75	0.0589	0.0953	0.0052	3.74	0.16	< 0.5	10.03	< 5	40	< 0.5	< 2	5.9
00-150-355	1388	276	1750	163.0	110	-----	19.50	5.66	5.99	0.0541	0.0651	0.0046	3.96	0.28	0.5	10.31	< 5	70	< 0.5	< 2	6.4
00-150-356	1388	276	720	82.5	99	-----	16.75	5.05	9.00	0.0336	0.0636	0.0046	3.53	0.09	< 0.5	8.87	< 5	50	< 0.5	< 2	5.5
00-150-357	1388	276	1100	131.0	115	-----	18.40	4.98	8.57	0.0405	0.0663	0.0044	3.48	0.10	< 0.5	9.74	< 5	60	< 0.5	< 2	5.8
00-150-358	1388	276	660	62.5	77	-----	18.20	6.02	7.28	0.0292	0.0413	0.0043	4.21	0.12	< 0.5	9.64	< 5	70	< 0.5	< 2	6.1
00-150-359	1388	276	1040	110.5	71	-----	20.6	5.32	7.61	0.0445	0.0579	0.0046	3.72	0.14	< 0.5	10.88	< 5	50	< 0.5	< 2	6.6
00-150-360	1388	276	530	46.0	53	-----	19.25	4.62	7.51	0.0253	0.0385	0.0039	3.23	0.06	< 0.5	10.20	< 5	60	< 0.5	< 2	6.1
00-150-361	1388	276	100	34.0	7	-----	20.3	4.39	8.16	0.0052	0.0332	0.0037	3.07	< 0.01	< 0.5	10.74	< 5	80	< 0.5	< 2	6.4
00-150-362	1388	276	640	88.0	69	-----	18.70	4.27	6.25	0.0373	0.0633	0.0036	2.99	0.10	< 0.5	9.90	< 5	140	< 0.5	< 2	5.7
00-150-363	1388	276	1050	94.5	190	-----	17.30	6.12	7.96	0.0951	0.0896	0.0051	4.28	0.28	< 0.5	9.15	< 5	130	< 0.5	< 2	6.1
00-150-364	1388	276	680	53.0	84	-----	18.65	5.26	8.47	0.0493	0.0769	0.0047	3.66	0.14	< 0.5	9.86	< 5	40	< 0.5	< 2	7.2
00-150-365	1388	276	860	78.5	98	-----	17.65	4.53	5.89	0.0655	0.0702	0.0039	3.17	0.19	< 0.5	9.33	< 5	80	< 0.5	< 2	5.6
00-150-366	1388	276	580	46.5	59	-----	21.2	3.95	5.34	0.0495	0.0534	0.0033	2.76	0.14	< 0.5	11.21	< 5	50	< 0.5	< 2	6.6
00-150-367	1388	276	1280	123.5	115	-----	21.1	4.37	5.89	0.0969	0.1005	0.0044	3.06	0.30	< 0.5	11.17	< 5	60	< 0.5	< 2	7.3
00-150-368	1388	276	1190	108.0	115	-----	18.40	4.93	6.05	0.0736	0.0794	0.0043	3.45	0.22	< 0.5	9.73	< 5	100	< 0.5	< 2	5.3
00-150-369	1388	276	2600	231	400	-----	17.15	6.88	8.12	0.1440	0.1345	0.0064	4.81	0.44	< 0.5	9.07	< 5	130	< 0.5	< 2	5.2
00-150-370	1388	276	1890	162.0	96	-----	18.15	5.19	8.67	0.0696	0.1065	0.0055	3.63	0.23	< 0.5	9.60	< 5	70	< 0.5	< 2	6.2
00-150-371	1388	276	2300	213	175	-----	20.1	5.35	7.54	0.1175	0.1340	0.0058	3.74	0.38	< 0.5	10.63	< 5	60	< 0.5	< 2	6.7
00-150-372	1388	276	4400	322	79	-----	17.35	4.76	7.26	0.0648	0.1565	0.0053	3.33	0.42	< 0.5	9.18	< 5	60	< 0.5	< 2	6.1
00-150-373	1388	276	2500	227	37	-----	17.25	4.07	6.12	0.0378	0.1070	0.0049	2.85	0.35	< 0.5	9.13	< 5	50	< 0.5	< 2	5.9
00-150-374	1388	276	1620	266	135	-----	18.95	4.39	6.35	0.0892	0.1070	0.0044	3.07	0.29	< 0.5	10.03	< 5	50	< 0.5	< 2	6.4
00-150-375	1388	276	700	104.5	75	-----	16.10	4.60	4.53	0.0497	0.0634	0.0040	3.22	0.57	< 0.5	8.51	< 5	280	< 0.5	< 2	5.3
00-150-376	1388	276	1640	204	220	-----	15.60	5.75	7.79	0.1125	0.1165	0.0058	4.02	0.40	< 0.5	8.26	< 5	60	< 0.5	< 2	5.6
00-150-377	1388	276	780	96.5	40	-----	11.65	6.66	9.32	0.0222	0.0536	0.0040	4.52	0.16	< 0.5	6.16	< 5	160	< 0.5	< 2	4.5
00-150-378	1388	276	650	107.0	63	-----	11.00	6.86	11.35	0.0232	0.0524	0.0055	4.80	0.08	< 0.5	5.82	< 5	30	< 0.5	< 2	4.3
00-150-87A-195	214	285	3100	291	300	-----	14.78	5.90	9.12	0.1085	0.1250	0.0060	4.13	0.33	< 0.5	7.77	< 5	50	< 0.5	< 2	5.2

CERTIFICATION:





# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-824-2806 FAX: 905-624-8163

To: LAC DES ILES MINES LTD.-EXPLORATION  
 NORTH AMERICAN PALLADIUM  
 P.O. BOX 10547  
 THUNDER BAY, ON  
 P7B 6T9

Page Number :1-A  
 Total Pages :1  
 Certificate Date: 10-AUG-2001  
 Invoice No. :10121593  
 P.O. Number :1000178  
 Account :MZ1

Project: #1033-00-150  
 Comments: ATTN: MOE LAVIGNE

\*\* CORRECTED COPY

## CERTIFICATE OF ANALYSIS

A0121593

SAMPLE	PREP		Pd ppb	Pt ppb	Au ppb	Al2O3	Fe2O3	MgO	Cu %	Ni %	Co %	Fe %	S %	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Cs %	Cd ppm
	CODE	QTY	ICP-MS	ICP-MS	ICP-MS	% Calc	% Calc	% Calc	calc.	calc.	calc.	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)
00-150-379	1388	276	1170	199.5	200	12.20	7.59	11.25	0.0941	0.1075	0.0069	5.31	0.28	0.5	6.46	5	40	< 0.5	< 2	5.2	0.5
00-150-380	1388	276	560	126.5	35	12.45	8.09	13.05	0.0245	0.0579	0.0065	5.66	0.08	< 0.5	6.58	5	60	< 0.5	< 2	5.3	0.5
00-150-381	1388	276	52	10.5	7	14.75	8.94	4.66	0.0115	0.0100	0.0039	6.25	0.08	< 0.5	7.81	15	360	< 0.5	< 2	4.5	< 0.5
00-150-382	1388	276	7	1.0	16	16.40	10.50	4.61	0.0125	0.0063	0.0044	7.36	0.09	< 0.5	8.69	10	300	< 0.5	< 2	5.4	0.5
00-150-383	1388	276	530	115.5	40	11.85	8.32	12.45	0.0246	0.0533	0.0063	5.82	0.06	< 0.5	6.26	5	120	< 0.5	< 2	4.7	0.5
00-150-384	1388	276	3	0.5	4	15.00	9.06	3.68	0.0097	0.0058	0.0037	6.34	0.08	< 0.5	7.95	5	370	< 0.5	< 2	4.4	0.5
00-150-385	1388	276	3	< 0.5	4	14.05	8.76	4.01	0.0121	0.0087	0.0040	6.13	0.13	55	7.43	< 5	360	< 0.5	< 2	4.7	0.5
00-150-386	1388	276	750	75.0	91	16.35	5.58	6.90	0.0467	0.0660	0.0041	3.90	0.10	< 0.5	8.66	5	170	< 0.5	< 2	5.7	< 0.5
00-150-387	1388	276	1430	132.0	145	16.35	5.72	8.04	0.1155	0.1090	0.0054	4.00	0.28	< 0.5	6.65	5	60	< 0.5	< 2	6.9	0.5
00-150-388	1388	276	730	68.0	93	17.65	5.86	8.22	0.0581	0.0732	0.0052	4.10	0.19	< 0.5	9.33	5	50	< 0.5	< 2	6.8	< 0.5
00-150-389	1388	276	260	48.5	50	17.45	5.82	8.51	0.0338	0.0517	0.0046	4.07	0.08	< 0.5	9.24	5	50	< 0.5	< 2	7.0	0.5
00-150-390	1388	276	540	166.0	35	11.00	10.80	13.85	0.0259	0.0565	0.0075	7.56	0.13	< 0.5	5.82	5	50	< 0.5	< 2	4.9	0.5
00-150-391	1388	276	800	269	37	7.94	9.56	17.15	0.0238	0.0726	0.0078	6.69	0.04	< 0.5	4.20	5	30	< 0.5	< 2	3.6	0.5
00-150-392	1388	276	460	79.5	135	17.90	5.46	8.64	0.0506	0.0572	0.0047	3.82	0.11	< 0.5	9.48	10	50	< 0.5	< 2	6.6	0.5
00-150-393	1388	276	155	30.0	51	17.75	5.83	9.32	0.0334	0.0482	0.0047	4.08	0.08	< 0.5	9.39	15	40	< 0.5	< 2	7.6	< 0.5
00-150-394	1388	276	510	128.5	51	12.70	7.68	12.65	0.0182	0.0542	0.0062	5.37	0.06	< 0.5	6.71	5	40	< 0.5	< 2	5.4	0.5
00-150-395	1388	276	520	128.0	31	12.40	7.95	13.00	0.0205	0.0528	0.0068	5.56	0.06	< 0.5	6.55	5	40	< 0.5	< 2	5.2	0.5
00-150-396	1388	276	1360	175.0	150	14.60	7.48	11.95	0.0748	0.1010	0.0067	5.23	0.21	< 0.5	7.74	5	50	< 0.5	< 2	5.6	0.5
00-150-397	1388	276	470	120.5	21	12.65	8.18	13.65	0.0164	0.0477	0.0065	5.72	0.04	< 0.5	6.69	< 5	30	< 0.5	< 2	5.1	0.5
00-150-398	1388	276	490	115.5	11	10.30	9.79	16.50	0.0077	0.0616	0.0077	6.85	0.03	< 0.5	5.45	5	50	< 0.5	< 2	4.7	0.5
00-150-399	1388	276	580	129.5	27	10.55	9.21	15.80	0.0160	0.0599	0.0072	6.44	0.06	< 0.5	5.59	5	30	< 0.5	< 2	4.4	0.5
00-150-400	1388	276	620	152.0	40	11.10	8.98	16.25	0.0253	0.0679	0.0074	6.28	0.09	< 0.5	5.88	5	30	< 0.5	< 2	4.4	1.0
00-150-401	1388	276	760	177.0	135	17.15	5.92	9.95	0.0647	0.0759	0.0054	4.14	0.20	< 0.5	9.07	10	60	< 0.5	< 2	6.1	0.5
00-150-402	1388	276	660	135.0	89	16.30	7.13	10.80	0.0490	0.0674	0.0059	4.99	0.16	< 0.5	8.62	15	100	< 0.5	< 2	6.4	0.5
00-150-403	1388	276	11	3.5	5	14.40	5.75	6.30	0.0065	0.0142	0.0030	4.02	0.30	< 0.5	7.61	5	730	1.0	< 2	5.1	0.5
00-150-404	1388	276	360	109.0	17	14.90	7.19	11.10	0.0131	0.0419	0.0056	5.03	0.06	< 0.5	7.88	< 5	120	< 0.5	< 2	5.8	0.5
00-150-405	1388	276	250	59.5	21	14.45	7.26	10.00	0.0178	0.0355	0.0055	5.08	0.05	< 0.5	7.66	5	70	< 0.5	< 2	6.0	0.5
00-150-406	1388	276	530	117.0	42	16.15	6.58	8.74	0.0325	0.0426	0.0054	4.60	0.10	< 0.5	8.54	5	60	< 0.5	< 2	5.8	1.0
00-150-407	1388	276	620	104.0	79	16.95	8.85	11.20	0.0695	0.0624	0.0066	6.19	0.19	0.5	8.97	5	60	< 0.5	< 2	6.7	1.0
00-150-408	1388	276	310	48.5	55	17.05	6.38	9.34	0.0496	0.0603	0.0056	4.46	0.12	< 0.5	9.02	5	60	< 0.5	< 2	6.6	1.0
00-150-87A-196	214	285	3100	270	320	16.30	6.78	10.10	0.1290	0.1380	0.0064	4.74	0.35	0.5	8.64	5	60	< 0.5	< 2	6.1	1.0

CERTIFICATION: \_\_\_\_\_

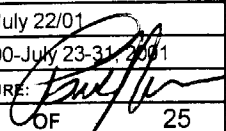
\*\* FOR Pb ON ALL SAMPLES.

11/20/02 WED 10:40 FAA 004 904 0410 ALS VILMELA

# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.

LAC DES ILES MINES LTD.

<b>PROPERTY:</b>	LAC DES ILES	<b>CLAIM NUMBER:</b>	253	<b>DOWNHOLE SURVEY METHOD:</b>			Maxibor	<b>DRILLING COMPANY:</b>			CHIBOUGAMAU				
<b>HOLE NO.:</b>	00-251	<b>LENGTH: (m)</b>	933 m	<b>CORE SIZE:</b>	NQ	<b>DEPTH</b>	<b>DIP</b>	<b>AZM</b>	<b>DEPTH</b>	<b>DIP</b>	<b>AZM</b>	<b>REMARKS:</b>	Core stored at Lac des Iles mine site		
<b>LOCATION - MINE GRID</b>		<b>NORTHING:</b>	31979.04	<b>EASTING:</b>	32586.85							Ext. of hole commenced July 22/01			
<b>SECTION:</b>	503N	<b>ZONE:</b>	Roby	<b>ELEVATION:</b>	495.11							<b>DATE LOGGED:</b>	Nov. 29, 2000-July 23-31, 2001		
<b>COLLAR ORIENTATION (AZIMUTH / DIP);</b>		<b>PLANNED:</b>	251/-45	<b>SURVEYED:</b>	251/-44							<b>LOGGED:</b>	J. Rickard.	<b>SIGNATURE:</b>	
<b>HOLE STARTED:</b>	27-Nov-00	<b>HOLE FINISHED:</b>	27-Jul-01	<b>MAG DECLINATION:</b>	2.1° w							G. Katchen	<b>SHEET</b>	1 OF 25	

METERAGE		DESCRIPTION	Rock Code	SAMPLES						ASSAYS								
FROM	TO			Alt <sup>n</sup>	3x Matri		No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	NI %	Co %
				Plag	Pxr	Comp												
0.00	3.10	<b>OVERBURDEN</b>																
3.10	27.00	<b>NORITE TO GABBRONORITE</b>  Fine grained to medium grained, dark brown to green white. Opx is typically dark brown and pitted, but is often altered to silver tremolite; subhedral to euhedral Opx crystals. Plag is unaltered, only rarely bleached. Opx 50-55%; Cpx 5-10%; Plag 40-45% Trace pyrite and chalcopyrite specks. Altered contacts are sharp, typically associated with fractures. Contacts between norite/gabbronorite are gradational. Lower contact gradational.				001	3.10	6.00	2.90	nil		0.46	0.12	0.02	0.005	0.014	0.003	
						002	6.00	9.00	3.00	nil		0.21	0.03	0.01	0.003	0.014	0.003	
						003	9.00	12.00	3.00	nil		0.22	0.04	0.02	0.011	0.011	0.003	
						004	12.00	15.00	3.00	nil		0.22	0.03	0.02	0.005	0.006	0.001	
						005	15.00	18.00	3.00	tr		0.18	0.05	0.03	0.026	0.009	0.002	
						006	18.00	21.00	3.00	tr	1:0	0.23	0.04	0.07	0.024	0.010	0.002	
						007	21.00	24.00	3.00	tr	1:0	0.57	0.08	0.09	0.041	0.018	0.003	
						008	24.00	27.00	3.00	tr		0.28	0.05	0.04	0.026	0.019	0.004	
27.00	57.20	<b>GABBRO</b>  Medium grained, equigranular, dark green/grey and white/grey. Unit is relatively homogeneous, the upper part of the gabbro is quite similar to the East gabbro. Cpx dark green, partially altered to actinolite, euhedral subequant. Plag is typically purple/grey in colour, often sausseritized green/white; fine grained epidote developed along fractures.				009	27.00	30.00	3.00	nil		0.11	0.02	0.01	0.005	0.013	0.003	
						010	30.00	33.00	3.00	nil		0.02	0.00	0.00	0.003	0.010	0.003	
						011	33.00	36.00	3.00	nil		0.02	0.00	0.00	0.004	0.012	0.003	
						012	36.00	39.00	3.00	nil		0.05	0.00	0.01	0.003	0.012	0.003	
						013	39.00	42.00	3.00	nil		0.06	0.00	0.01	0.003	0.010	0.003	
						014	42.00	45.00	3.00	tr		0.05	0.00	0.01	0.003	0.009	0.003	
						015	45.00	48.00	3.00	nil		0.05	0.00	0.01	0.003	0.012	0.003	
						016	48.00	51.00	3.00	nil		0.07	0.00	0.00	0.002	0.014	0.003	
						017	51.00	54.00	3.00	nil		0.05	0.00	0.00	0.002	0.013	0.003	
						018	54.00	57.20	3.20	nil		0.06	0.00	0.00	0.003	0.013	0.004	



52H04NE2019

2.24642

LAC DES ILES

060

11/11/02

# DIAMOND DRILL CORE LOGGING SHEETS

North American **Palladium Ltd.**  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-251

LOGGED BY: J. Rickard SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup> Bx Matrix				SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
27.00	57.20	<p><b>GABBRO (continued)</b></p> <p>Unit is occasionally weakly foliated at 60° to 80° to core axis. Rare pyrite specks. 29.00m - 29.35m - Healed fault zone - Upper contact sharp at 50° to core axis. Brecciated and filled with chalky white gouge, lower contact at 45° to core axis, defined by strong alteration. 40.00m - 40.50m - Strongly altered zone - pyroxenes completely altered. Lower contact sharp at 45° to core axis.</p>																
57.20	59.60	<p><b>MAGNETITE GABBRO</b></p> <p>Fine grained to medium grained, dark green, strongly altered, weakly sheared at ~50° to core axis. Up to 10% fine grained, interstitial magnetite, areas with the most magnetite are the strongest sheared and have very little Plag. Cpx 45-80%; Plag 20-65%; Opx nil. Unit is intermixed with clasts of light grey anorthosite. The anorthosite inclusions are up to 20.0cm long.</p>	3	3			019	57.20	59.60	2.40	nil		0.04	0.00	0.00	0.003	0.021	0.006





# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.

LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-251

LOGGED BY: J. Rickard SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>				SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Bx Matrix		No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
					Com	Prop												
139.50	176.55	<p><b>GABBRONORITE</b></p> <p>Medium grained, equigranular, dark brown to green and grey massive. Opx is typically unaltered, dark brown and pitted; rarely serpentine or altered to tremolite. Cpx is always alteration to actinolite/chlorite. Plag is typically dark grey to grey, relatively unaltered. Opx 10-45%; Cpx 5-35%; Plag 50-55% Rare pyrite specks. A few joints, sometimes joints have slickensides. 151.65m - 151.75m; 170.35m - 170.55m; and 170.20m - 173.25m - Microgabbro - Fine grained, equigranular, unaltered brown Opx; slightly magnetic, sharp contacts. Lower contact sharp at 60° to core axis.</p>	2	2			048	139.50	141.00	1.50	nil		0.01	0.00	0.00	0.003	0.006	0.002
			2	2			049	141.00	144.00	3.00	nil		0.01	0.00	0.00	0.004	0.005	0.002
			2	2			050	144.00	147.00	3.00	nil		0.01	0.00	0.00	0.004	0.005	0.002
			2	2			051	147.00	150.00	3.00	nil		0.01	0.00	0.00	0.005	0.004	0.002
			2	2			052	150.00	153.00	3.00	nil		0.01	0.00	0.00	0.005	0.005	0.002
			2	2			053	153.00	156.00	3.00	nil		0.02	0.00	0.00	0.003	0.006	0.002
			2	2			054	156.00	159.00	3.00	nil		0.02	0.00	0.00	0.002	0.007	0.002
			3	3			055	159.00	162.00	3.00	nil		0.02	0.00	0.00	0.002	0.008	0.002
			2	2			056	162.00	165.00	3.00	nil		0.02	0.00	0.00	0.003	0.009	0.003
			3	3			057	165.00	168.00	3.00	nil		0.02	0.01	0.00	0.002	0.009	0.003
			2	2			058	168.00	171.00	3.00	nil		0.02	0.00	0.00	0.010	0.009	0.002
			2	2			059	171.00	174.00	3.00	tr		0.02	0.00	0.00	0.010	0.014	0.003
			2	2			060	174.00	176.55	2.55	tr		0.02	0.01	0.00	0.002	0.009	0.003
176.55	185.85		<p><b>GABBRO (MAGNETITE)</b></p> <p>Fine grained to medium grained, dark green/grey and purple/brown. Unit is in sharp contact with gabbro above and below, but contains almost no Opx. Cpx is dull, moderately altered. Plag is typically purple/brown, only rarely bleached. Interstitial magnetite specks throughout, up to 2% locally. Rare pyrite specks. Opx becomes more abundant toward lower contact, although it is completely altered to black serpentine. Lower contact gradational.</p>	2	3			061	176.55	179.40	2.85	nil		0.03	0.00	0.00	0.004	0.010
		2		3			062	179.40	181.00	1.60	nil		0.03	0.01	0.00	0.007	0.011	0.004
		2		3			063	181.00	183.90	2.90	nil		0.03	0.01	0.01	0.005	0.011	0.004
		2		3			064	183.90	186.85	2.95	tr		0.03	0.00	0.00	0.005	0.013	0.004







# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-251

LOGGED BY: J. Rickard SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup> Bx Matrix				SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
226.20	255.65	<b>GABBRO (continued)</b>  254.00m - 255.65m - Magnetite gabbro - Up to 25% magnetite; found as bands at 70° to core axis.																
255.65	275.80	<b>GABBRONORITE</b>  Medium grained, equigranular, dark brown and green, weakly foliated at 60° to core axis. Opx unaltered to moderately altered to serpentine or tremolite. Cpx dull green, moderately altered. Plag is purple/brown, weakly altered. Trace pyrite and lesser chalcopyrite throughout. Opx 30-45%; Cpx 10-15%; Plag 50-55%. Occasional narrow tonalite dikes.	2	3			092	255.65	258.00	2.35	0.25	1:0	0.09	0.01	0.01	0.023	0.011	0.002
			2	3			093	258.00	261.00	3.00	tr		0.11	0.02	0.02	0.034	0.014	0.004
			2	2			094	261.00	264.00	3.00	tr		0.03	0.00	0.00	0.004	0.009	0.003
			2	2			095	264.00	267.00	3.00	tr		0.04	0.02	0.00	0.014	0.015	0.003
			2	2			096	267.00	270.00	3.00	nil		0.04	0.00	0.00	0.022	0.011	0.002
			2	2			097	270.00	273.00	3.00	tr		0.03	0.00	0.00	0.015	0.012	0.003
			2	2			098	273.00	275.80	2.80	nil		0.03	0.00	0.00	0.015	0.012	0.004
275.80	304.45	<b>GABBRO</b>  Unit consists mostly of medium grained, equigranular gabbro with narrow intersections of pyroxenite and melanogabbro. Cpx altered to chlorite/actinolite, dull green. Opx nil; Cpx 45-50%; Plag 50-55%. Occasional magnetite specks, locally up to 3%. Rare specks of pyrite. Gabbro is dark green and grey and weakly to moderately foliated at 70° to core axis. 288.00m - 289.00m - Melanogabbro, medium grained, dark green. Up to 15% Plag - often as varitextured segregations.	2	3			099	275.80	279.00	3.20	nil		0.04	0.01	0.00	0.012	0.011	0.004
			2	3			100	279.00	282.00	3.00	nil		0.11	0.02	0.00	0.006	0.018	0.005
			2	3			101	282.00	285.00	3.00	nil		0.13	0.03	0.03	0.015	0.034	0.006
			2	3			102	285.00	288.00	3.00	tr		0.13	0.04	0.04	0.015	0.037	0.006
			2	3			103	288.00	291.00	3.00	tr		0.08	0.06	0.01	0.016	0.017	0.005
			2	3			104	291.00	294.00	3.00	nil		0.03	0.00	0.00	0.005	0.009	0.003
			2	3			105	294.00	297.00	3.00	tr		0.07	0.01	0.01	0.010	0.009	0.003
			2	3			106	297.00	300.00	3.00	nil		0.11	0.01	0.01	0.007	0.009	0.003
			2	3			107	300.00	303.00	3.00	nil		0.09	0.00	0.01	0.004	0.011	0.003
			2	3			108	303.00	304.45	1.45	tr		0.04	0.02	0.01	0.010	0.015	0.003





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METERAGE		DESCRIPTION	Alt <sup>n</sup> Bx Matrix				SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
370.90	388.60	<b>DIABASE/GABBRO BRECCIA (continued)</b>  Alteration is variable throughout; some areas are strongly epidotized, which is related to late fractures. Trace pyrite specks throughout. Lower contact gradational.																
388.60	427.90	<b>GABBRO (EAST)</b>  Medium grained, equigranular, dark green and grey; relatively homogeneous. Cpx is completely altered. Plag alteration varies from relatively unaltered to strongly sausseritized and/or hematized. Moderate to weak foliation at 70° to 80° to core axis. Trace pyrite specks occasionally throughout. Cpx 45-50%; Plag 50-55%. 404.80m - 406.40m - Mafic dike - Fine grained, dark grey/green, banded at 75° to core axis due to alteration. Contacts sharp at ~75° to core axis.	3	3			143	388.60	390.00	1.40	nil		0.08	0.01	0.00	0.001	0.012	0.003
			2	3			144	390.00	393.00	3.00	nil		0.08	0.01	0.00	0.002	0.012	0.003
			3	3			145	393.00	396.00	3.00	nil		0.19	0.07	0.00	0.002	0.013	0.003
			3	3			146	396.00	399.00	3.00	tr		0.13	0.06	0.00	0.004	0.013	0.003
			4	3			147	399.00	402.00	3.00	nil		0.15	0.04	0.01	0.003	0.014	0.003
			3	3			148	402.00	404.80	2.80	tr		0.13	0.02	0.00	0.007	0.015	0.003
							149	404.80	406.40	1.60	tr		0.10	0.02	0.01	0.009	0.014	0.003
			2	3			150	406.40	408.00	1.60	tr		0.02	0.00	0.00	0.005	0.020	0.003
			2	3			151	408.00	411.00	3.00	tr		0.02	0.00	0.00	0.004	0.015	0.003
			2	3			152	411.00	414.00	3.00	tr		0.01	0.00	0.00	0.011	0.012	0.002
			2	3			153	414.00	417.00	3.00	nil		0.00	0.00	0.01	0.030	0.035	0.004
			2	3			154	417.00	420.00	3.00	tr		0.02	0.00	0.00	0.003	0.013	0.002
			2	3			155	420.00	423.00	3.00	nil		0.02	0.00	0.00	0.002	0.007	0.001
			2	3			156	423.00	426.00	3.00	tr		0.02	0.00	0.00	0.002	0.029	0.003
			2	3			157	426.00	427.90	1.90	nil		0.00	0.00	0.00	0.007	0.003	0.003
427.90	429.30	<b>DIABASE (PORPHYRITIC)</b>  Fine grained and medium grained, dark green to black, porphyritic. Euhedral Plag crystals set in a fine grained groundmass. Trace pyrite specks. Contacts sharp at 80° to core axis.					158	427.90	429.30	1.40	tr		0.03	0.00	0.00	0.002	0.006	0.003







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SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup> Bx Matrix				SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
543.00	615.35	<b>GABBRO</b>																
		Medium grained, equigranular, dark grey/green and light grey					201	543.00	546.00	3.00	nil		0.13	0.02	0.01	0.004	0.012	0.003
		Unit relatively homogeneous, except for a small, coarse					202	546.00	549.00	3.00	nil		0.12	0.01	0.00	0.004	0.012	0.003
		grained clast at 552.30m to 552.60m.					203	549.00	552.00	3.00	nil		0.11	0.01	0.00	0.004	0.014	0.004
		Cpx is altered, dark green to dull green.					204	552.00	555.00	3.00	tr		0.15	0.01	0.01	0.006	0.012	0.004
		Plag is bleached white or found as dark grey/purple grains.					205	555.00	558.00	3.00	tr		0.46	0.08	0.02	0.015	0.020	0.004
		Opx nil; Cpx 50-55%; Plag 45-50%.					206	558.00	561.00	3.00	tr		2.12	0.28	0.12	0.097	0.084	0.006
		Trace amounts of pyrite throughout.					207	561.00	564.00	3.00	tr		0.19	0.02	0.01	0.009	0.014	0.003
		Massive, few joints.					208	564.00	567.00	3.00	nil		0.17	0.01	0.00	0.005	0.014	0.003
		594.95m - 595.65m; and 600.65m - 600.80m - Diabase - very fine grained,					209	567.00	570.00	3.00	tr		0.15	0.01	0.00	0.003	0.012	0.003
		dark green/black, magnetic, contacts irregular, pyrite					210	570.00	573.00	3.00	tr		0.51	0.09	0.02	0.018	0.022	0.003
		specks.					211	573.00	576.00	3.00	nil		0.26	0.07	0.01	0.005	0.014	0.003
		600.55m - 601.35m - Microgabbro - Fine grained, light grey-green,					212	576.00	579.00	3.00	tr		0.25	0.05	0.00	0.003	0.013	0.003
		equigranular, moderately altered, sharp contacts.					213	579.00	582.00	3.00	nil		0.31	0.05	0.01	0.002	0.013	0.003
							214	582.00	585.00	3.00	nil		0.18	0.08	0.01	0.005	0.014	0.003
							215	585.00	588.00	3.00	nil		0.13	0.05	0.00	0.007	0.017	0.004
							216	588.00	591.00	3.00	nil		0.17	0.04	0.02	0.015	0.019	0.004
							217	591.00	594.00	3.00	nil		0.15	0.04	0.00	0.002	0.015	0.004
							218	594.00	597.00	3.00	tr		0.14	0.02	0.01	0.004	0.013	0.003
							219	597.00	600.00	3.00	nil		0.14	0.01	0.00	0.004	0.016	0.004
							220	600.00	603.00	3.00	tr		0.27	0.04	0.02	0.020	0.020	0.003
							221	603.00	606.00	3.00	0.25		1.21	0.16	0.08	0.064	0.071	0.005
							222	606.00	609.00	3.00	tr		0.36	0.05	0.04	0.019	0.025	0.003
							223	609.00	612.00	3.00	nil		0.03	0.01	0.00	0.003	0.012	0.002
							224	612.00	615.35	3.35	tr		0.10	0.02	0.00	0.004	0.014	0.003



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METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES						ASSAYS					
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
615.35	624.65	<b>PYROXENITE</b>  Medium grained, dark green to black, weakly sheared at 10° to sub-parallel to core axis. Cpx completely altered to dark grey, fibrous actinolite. Trace pyrite and pyrrhotite? specks throughout. Pyroxenite contains virtually no Plag. Some pyroxene possibly altered to serpentine. All joints have slickensides. Upper contact sharp at 45° to core axis, lower contact sharp at 35° to core axis. Clasts of medium grained and coarse grained, strongly altered gabbro, up to 40.0cm long, sharp contacts.	3	3			225	615.35	618.00	2.65	tr	0:1	0.16	0.03	0.02	0.010	0.028	0.005
			3	3			226	618.00	621.00	3.00	tr	0:1	0.19	0.03	0.01	0.009	0.025	0.005
			3	3			227	621.00	622.65	1.65	tr		0.09	0.02	0.01	0.006	0.025	0.005
			3	3			228	622.65	624.65	2.00	tr		0.14	0.02	0.01	0.007	0.025	0.005
624.65	633.00	<b>GABBRO (EAST)</b>  Medium grained, dark green and grey/white, foliated at 45° to 50° to core axis. Pyrite specks throughout, occasionally within healed fractures. Plag weakly sausseritized, grey to green/white. Cpx typically altered, dull green to dark green. Opx nil; Cpx 45-50%; Plag 50-55%. Lower contact sharp at 50° to core axis. 630.40m - 630.80m - Diabase - Very fine grained, dark green/black, banded parallel to contacts. Contacts sharp at 60° to core axis.	2	3			229	624.65	627.00	2.35	tr		0.23	0.03	0.01	0.007	0.022	0.002
			2	3			230	627.00	630.00	3.00	tr		0.03	0.00	0.00	0.001	0.013	0.002
			2	3			231	630.00	633.00	3.00	tr		0.06	0.01	0.01	0.013	0.024	0.003

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METERAGE		DESCRIPTION	Alt <sup>n</sup> Bx Matrix				SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
633.00	634.00						<p><b>PYROXENITE</b></p> <p>Similar to pyroxenite between 615.35m to 624.65m. Medium grained, dark green/black, massive, euhedral, pyroxenite crystals. No apparent Plag. Cpx altered to actinolite and possibly serpentine. 0.5% pyrite specks and cubes throughout. Unit is moderately magnetic. Contacts sharp at 50° to 60° to core axis. Joints have slickensides.</p>		3			232	633.00	634.00	1.00	0.50		0.15
634.00	665.85	<p><b>GABBRO (EAST)</b></p> <p>Unit is similar in appearance to typical east gabbro, some parts appear melanocratic, but this is due to the dark colour of the Plag. Medium grained, equigranular, massive to foliated at 45° to 60° to core axis. Cpx is weakly to moderately altered, most altered to actinolite, some relatively fresh black Cpx. Plag may be dark grey, but is typically bleached; veinlets of fine grained epidote occur throughout. Opx nil; Cpx 45-60%; Plag 40-55%. 647.80m - 649.60m; and 652.65m - 652.90m; and 655.60m - 655.90m - Mafic dikes - very fine grained, grey/brown, strongly altered, contacts irregular, 45° to sub-parallel to core axis. Lower contact at 0-10° to core axis.</p>	2	3			233	634.00	636.00	2.00	tr		0.07	0.01	0.01	0.016	0.025	0.004
			2	3			234	636.00	639.00	3.00	tr		0.02	0.00	0.00	0.002	0.013	0.003
			2	3			235	639.00	642.00	3.00	tr		0.03	0.00	0.00	0.004	0.018	0.003
			2	3			236	642.00	645.00	3.00	tr		0.03	0.00	0.00	0.005	0.015	0.004
			2	3			237	645.00	647.80	2.80	tr		0.02	0.00	0.00	0.002	0.014	0.003
			2	3			238	647.80	649.00	1.20	0.25		0.00	0.00	0.00	0.020	0.004	0.006
			2	3			239	649.00	651.00	2.00	tr		0.03	0.00	0.00	0.002	0.015	0.003
			2	3			240	651.00	654.00	3.00	tr		0.03	0.00	0.00	0.002	0.009	0.003
			2	3			241	654.00	657.00	3.00	nil		0.02	0.00	0.00	0.002	0.010	0.003
			3	3			242	657.00	660.00	3.00	nil		0.02	0.00	0.00	0.001	0.008	0.002
			3	3			243	660.00	663.00	3.00	tr		0.03	0.03	0.00	0.001	0.009	0.002
			3	3			244	663.00	665.85	2.85	tr		0.04	0.01	0.00	0.008	0.007	0.002

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METERAGE		DESCRIPTION	Alt <sup>m</sup> Bx Matrix				SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
665.85	670.50	<b>INTERMEDIATE DIKE</b>  Medium grained, equigranular, pink/brown to grey, massive. Numerous thin shears throughout. Upper 30cm is a quartz vein at 20-30° to core axis, vein contains massive stringers of fine grained to medium grained pyrite, stringers up to 2.0cm wide. Minor pyrite specks throughout dike. Contact sharp at 10° to 30° to core axis.					245	665.85	669.00	3.15	1.50		0.00	0.00	0.01	0.057	0.002	0.004
							246	669.00	670.50	1.50	tr		0.00	0.00	0.02	0.081	0.002	0.003
670.50	720.00	<b>GABBRO (EAST)</b>  Medium grained, equigranular, dark green/black and white/grey, weakly to moderately foliated at 60° to 80° to core axis. Cpx is euhedral, moderately altered to actinolite, some black pyroxene. Plag is relatively unaltered, light grey to medium grey. Cpx 45-50%; Plag 50-55%; Opx nil. Trace pyrite specks throughout. 686.10m - 686.55m - Mafic dike - Very fine grained, dark grey/black, altered. Cross-cut by tonalite dike. Contacts at 60° to core axis. 708.00m - 720.00m - Approximately 10% broken core, broken along joints.  The extension of this hole commenced on July 22, 2001 and was complete on July 27, 2001.					247	670.50	672.00	1.50	tr		0.02	0.00	0.00	0.021	0.005	0.002
	EOH						248	672.00	675.00	3.00	tr		0.28	0.05	0.01	0.045	0.016	0.003
							249	675.00	678.00	3.00	tr		0.03	0.01	0.02	0.020	0.003	0.001
							250	678.00	681.00	3.00	tr		0.04	0.01	0.01	0.016	0.003	0.001
							251	681.00	684.00	3.00	tr		0.02	0.00	0.00	0.011	0.005	0.001
							252	684.00	687.00	3.00	tr		0.01	0.00	0.00	0.012	0.005	0.002
							253	687.00	690.00	3.00	tr		0.01	0.00	0.01	0.010	0.003	0.001
							254	690.00	693.00	3.00	tr		0.01	0.00	0.00	0.013	0.004	0.001
							255	693.00	696.00	3.00	nil		0.01	0.00	0.01	0.015	0.003	0.001
							256	696.00	699.00	3.00	nil		0.01	0.00	0.01	0.015	0.004	0.001
							257	699.00	702.00	3.00	nil		0.01	0.00	0.00	0.013	0.003	0.001
							258	702.00	705.00	3.00	nil		0.01	0.00	0.01	0.015	0.003	0.001
							259	705.00	708.00	3.00	nil		0.30	0.05	0.01	0.023	0.017	0.002
							260	708.00	711.00	3.00	nil		0.61	0.09	0.02	0.042	0.031	0.003
							261	711.00	714.00	3.00	tr		0.16	0.03	0.01	0.025	0.010	0.002
							262	714.00	717.00	3.00	tr		0.42	0.06	0.02	0.037	0.021	0.003
							263	717.00	720.00	3.00	tr		0.53	0.08	0.01	0.033	0.026	0.002

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LOGGED BY: J. Rickard & G. Katchen SIGNATURE \_\_\_\_\_

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES						ASSAYS					
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
720.00	732.30	<b>EAST GABBRO</b>  721.50m - 723.45m: Fault zone; Estimated to be ~40° to core axis. Local very strong talc and serpentine along fractured planes. Local intense hematite and epidote (723.00m - 723.45m). Locally brecciated and recemented. 726.00m - 729.00m: Local Pyroxenite xenoliths.	3	4			264	720.00	723.00	3.00	tr		0.11	0.02	0.01	0.013	0.025	0.006
			3	3			265	723.00	726.00	3.00			0.08	0.02	0.00	0.006	0.013	0.003
			2	2			266	726.00	729.00	3.00	0.50		0.58	0.09	0.03	0.051	0.044	0.005
			2	2			267	729.00	732.30	3.30			0.09	0.01	0.00	0.005	0.010	0.002
732.30	739.20	<b>PYROXENITE</b>  Dark green, medium grained. Plag nil - 3% Cpx >97% Opx - nil, none observed Unit is massive, soft to moderate with respect to hardness, weakly fractured. Alteration is strong to intense with Plag very well saussuritized to a deep yellow. Cpx altered to actinolite with strong to locally intense talc alteration. Non-magnetic. Pyrite, nil to 0.75% as irregular crystal bleb ~0.5cm in diameter, dominantly occurring in top 3m of unit.	3	4			268	732.30	733.50	1.20	0.75		0.45	0.07	0.02	0.019	0.046	0.008
			3	4			269	733.50	735.00	1.50	0.50		0.20	0.04	0.02	0.013	0.047	0.007
			3	4			270	735.00	736.50	1.50	tr		0.22	0.05	0.04	0.033	0.063	0.008
			4	4			271	736.50	738.00	1.50			0.29	0.07	0.02	0.017	0.049	0.007
			3	4			272	738.00	739.20	1.20			0.20	0.05	0.01	0.003	0.033	0.006
739.20	752.05	<b>MELANOGABBRO</b>  Dark green, medium grained. Exactly the same as above lying pyroxenite with exception of Plag % increased to ~10%, still locally a pyroxenite composition. Copy over into from pyroxenite with exception of %'s. Plag ~10-15%; Cpx ~85-90%.	3	3			273	739.20	741.00	1.80			0.20	0.06	0.02	0.012	0.037	0.007
			3	3			274	741.00	744.00	3.00	0.25		0.10	0.03	0.01	0.007	0.037	0.006
			3	4			275	744.00	747.00	3.00	0.50		0.09	0.03	0.01	0.008	0.040	0.006
			3	4			276	747.00	750.00	3.00	0.75		0.34	0.07	0.04	0.031	0.059	0.007
			3	3			277	750.00	752.05	2.05	tr		0.12	0.04	0.02	0.023	0.047	0.006











# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.

LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-251

LOGGED BY: J. Rickard & G. Katchen SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup> Bx Matrix				SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
867.40	907.75	<p><b>HETEROLITHIC GABBRO BRECCIA</b></p> <p>Unit is similar to that above, but the Opx has disappeared; consists of heterolithic clasts set within a matrix of melanogabbro. * Lower contact inferred.</p> <p><u>Matrix:</u> Fine grained to medium grained, dark green to dark grey, melanocratic. Cpx is altered to actinolite/chlorite. Plag is weakly altered, grey to grey/white. Cpx 60-70%, Plag 30-40%, Opx nil. Sulphide as specks and blebs, mostly chalcopyrite with lesser pyrite and pyrrhotite. Contacts between matrix and clasts are sharp.</p> <p><u>Clasts:</u> Composition varies from fine grained to pegmatitic varitextured gabbro to medium grained gabbro. Clast size varies from ~5.0cm to &gt;2.0m. Cpx is at least partly altered to actinolite/chlorite. Plag is typically saussuritized to a green/yellow colour, rare hematite alteration (pink/orange). Minor sulphide, coarser sulphide grains associated with coarse grained to pegmatitic rocks.</p> <p>874.25m - 874.40m: 751.10m - 875.50m: 903.05m - 903.30m: Tonalite: Fine grained to medium grained, white with brown specks, often sheared sharp contacts at varying orientation.</p>	3	3	Mgab	10	329	867.40	870.00	2.60			1.05	0.14	0.04	0.015	0.050	0.003
			3	3	Mgab	30	330	870.00	873.00	3.00	0.25	1:0	2.10	0.27	0.16	0.076	0.088	0.005
			3	3	Mgab	20	331	873.00	876.00	3.00	tr	1:1	1.42	0.18	0.07	0.027	0.058	0.004
			3	3	Mgab	60	332	876.00	879.00	3.00	tr	py	1.95	0.29	0.12	0.052	0.062	0.004
			3	3	Mgab	20	333	879.00	882.00	3.00	0.25	py	2.20	0.26	0.13	0.052	0.061	0.004
			3	3	Mgab	70	334	882.00	885.00	3.00	0.75	1:0	1.93	0.25	0.08	0.030	0.059	0.004
			3	3	Mgab	5	335	885.00	888.00	3.00	tr	1:0	1.04	0.14	0.04	0.031	0.047	0.004
			3	3	Mgab	10	336	888.00	891.00	3.00			0.29	0.05	0.03	0.017	0.036	0.004
			3	3	Mgab	70	337	891.00	894.00	3.00	0.25	1:0	0.61	0.07	0.06	0.026	0.044	0.004
			3	3	Mgab	80	338	894.00	897.00	3.00	0.25	1:0	1.71	0.24	0.16	0.078	0.077	0.005
			3	3	Mgab	5	339	897.00	900.00	3.00	tr	py	0.46	0.08	0.03	0.019	0.039	0.004
			3	3	Mgab		340	900.00	903.00	3.00	tr	1:0	0.43	0.08	0.04	0.026	0.044	0.004
			3	3	Mgab	20	341	903.00	906.00	3.00			0.38	0.06	0.02	0.015	0.038	0.003
			3	3	Mgab	95	342	906.00	907.75	1.75	tr	py	0.11	0.03	0.02	0.016	0.033	0.004





# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

Page Number : 1  
 Total Pages : 1  
 Certificate Date: 18-DEC-2000  
 Invoice No. : I0035382  
 P.O. Number :  
 Account : MZI

Project : 00-251  
 Comments: ATTN: MOE LAVIGNE

2. 24642

## CERTIFICATE OF ANALYSIS A0035382

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-251-001	1388 276	20	115	458	50	0.0050	140	0.0140	30	0.0030
00-251-002	1388 276	10	25	214	32	0.0032	140	0.0140	30	0.0030
00-251-003	1388 276	16	35	222	107	0.0107	112	0.0112	26	0.0026
00-251-004	1388 276	20	30	218	45	0.0045	63	0.0063	14	0.0014
00-251-005	1388 276	32	45	176	264	0.0264	92	0.0092	18	0.0018
00-251-006	1388 276	70	40	226	243	0.0243	103	0.0103	16	0.0016
00-251-007	1388 276	88	75	572	410	0.0410	177	0.0177	32	0.0032
00-251-008	1388 276	42	45	278	263	0.0263	191	0.0191	41	0.0041
00-251-009	1388 276	8	20	110	50	0.0050	134	0.0134	30	0.0030
00-251-010	1388 276	2	< 5	16	31	0.0031	98	0.0098	26	0.0026
00-251-011	1388 276	4	< 5	24	40	0.0040	123	0.0123	32	0.0032
00-251-012	1388 276	6	< 5	54	32	0.0032	121	0.0121	31	0.0031
00-251-013	1388 276	8	< 5	64	27	0.0027	102	0.0102	29	0.0029
00-251-014	1388 276	8	< 5	54	33	0.0033	89	0.0089	27	0.0027
00-251-015	1388 276	6	< 5	52	32	0.0032	115	0.0115	34	0.0034
00-251-016	1388 276	< 2	< 5	66	24	0.0024	142	0.0142	34	0.0034
00-251-017	1388 276	4	< 5	50	24	0.0024	133	0.0133	34	0.0034
00-251-018	1388 276	2	< 5	60	25	0.0025	128	0.0128	36	0.0036
00-251-019	1388 276	2	< 5	40	27	0.0027	210	0.0210	60	0.0060
00-251-020	1388 276	4	< 5	54	21	0.0021	93	0.0093	32	0.0032
00-251-021	1388 276	2	< 5	54	27	0.0027	88	0.0088	33	0.0033
00-251-022	1388 276	16	15	52	20	0.0020	80	0.0080	28	0.0028
00-251-023	1388 276	8	50	58	23	0.0023	73	0.0073	25	0.0025
00-251-024	1388 276	4	5	32	19	0.0019	75	0.0075	27	0.0027
251-STA-028	214 238	314	295	3170	1215	0.1215	1095	0.1095	42	0.0042

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 5175 Timberlea Blvd., Mississauga  
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To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

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Page Number : 1  
 Total Pages : 2  
 Certificate Date : 20-DEC-2000  
 Invoice No. : I0035496  
 P.O. Number :  
 Account : MZI

Project : 00-251  
 Comments : ATTN: MOE LAVIGNE

## CERTIFICATE OF ANALYSIS A0035496

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-251-025	1388 276	8	< 5	38	22	0.0022	65	0.0065	19	0.0019
00-251-026	1388 276	14	< 5	28	29	0.0029	51	0.0051	17	0.0017
00-251-027	1388 276	10	< 5	16	74	0.0074	50	0.0050	21	0.0021
00-251-028	1388 276	8	< 5	20	115	0.0115	75	0.0075	25	0.0025
00-251-029	1388 276	6	< 5	26	98	0.0098	83	0.0083	27	0.0027
00-251-030	1388 276	4	< 5	26	74	0.0074	63	0.0063	22	0.0022
00-251-031	1388 276	4	< 5	20	110	0.0110	78	0.0078	26	0.0026
00-251-032	1388 276	4	< 5	16	53	0.0053	86	0.0086	27	0.0027
00-251-033	1388 276	2	< 5	10	78	0.0078	109	0.0109	38	0.0038
00-251-034	1388 276	< 2	< 5	18	33	0.0033	112	0.0112	34	0.0034
00-251-035	1388 276	< 2	< 5	16	42	0.0042	77	0.0077	25	0.0025
00-251-036	1388 276	< 2	< 5	22	34	0.0034	80	0.0080	25	0.0025
00-251-037	1388 276	< 2	< 5	22	25	0.0025	79	0.0079	23	0.0023
00-251-038	1388 276	< 4	< 5	24	29	0.0029	82	0.0082	22	0.0022
00-251-039	1388 276	< 2	< 5	22	27	0.0027	87	0.0087	23	0.0023
00-251-040	1388 276	< 2	< 5	24	46	0.0046	91	0.0091	28	0.0028
00-251-041	1388 276	< 2	< 5	16	21	0.0021	99	0.0099	31	0.0031
00-251-042	-- --	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
00-251-043	1388 276	< 2	< 5	12	30	0.0030	87	0.0087	31	0.0031
00-251-044	1388 276	< 2	< 5	14	30	0.0030	91	0.0091	31	0.0031
00-251-045	-- --	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
00-251-046	1388 276	< 2	< 5	8	26	0.0026	103	0.0103	34	0.0034
00-251-047	1388 276	< 2	< 5	10	23	0.0023	51	0.0051	19	0.0019
00-251-048	1388 276	< 2	< 5	10	28	0.0028	55	0.0055	19	0.0019
00-251-049	1388 276	< 2	< 5	8	36	0.0036	49	0.0049	19	0.0019
00-251-050	1388 276	< 4	< 5	8	44	0.0044	48	0.0048	23	0.0023
00-251-051	1388 276	< 2	< 5	10	45	0.0045	44	0.0044	17	0.0017
00-251-052	1388 276	< 2	< 5	14	46	0.0046	53	0.0053	21	0.0021
00-251-053	1388 276	< 2	< 5	16	32	0.0032	56	0.0056	18	0.0018
00-251-054	1388 276	< 2	< 5	16	20	0.0020	66	0.0066	22	0.0022
00-251-055	1388 276	< 4	< 5	20	20	0.0020	84	0.0084	24	0.0024
00-251-056	1388 276	< 2	< 5	22	25	0.0025	86	0.0086	25	0.0025
00-251-057	1388 276	< 2	< 5	22	24	0.0024	93	0.0093	30	0.0030
00-251-058	1388 276	< 2	< 5	20	96	0.0096	87	0.0087	22	0.0022
00-251-059	1388 276	< 2	< 5	22	97	0.0097	137	0.0137	33	0.0033
00-251-060	1388 276	< 2	< 5	16	17	0.0017	87	0.0087	29	0.0029
00-251-061	1388 276	< 2	< 5	28	38	0.0038	95	0.0095	34	0.0034
00-251-062	1388 276	2	10	30	66	0.0066	111	0.0111	38	0.0038
00-251-063	1388 276	8	< 5	26	50	0.0050	107	0.0107	39	0.0039
00-251-064	1388 276	4	< 5	32	48	0.0048	133	0.0133	36	0.0036

CERTIFICATION: \_\_\_\_\_

*[Handwritten signature]*



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

Page Number :2  
 Total Pages :2  
 Certificate Date: 20-DEC-2000  
 Invoice No. : I0035496  
 P.O. Number :  
 Account : MZI

Project : 00-251  
 Comments: ATTN: MOE LAVIGNE

## CERTIFICATE OF ANALYSIS A0035496

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-251-065	1388 276	2	< 5	22	38	0.0038	85	0.0085	26	0.0026
00-251-066	1388 276	28	< 5	108	248	0.0248	96	0.0096	18	0.0018
00-251-067	1388 276	4	< 5	30	127	0.0127	82	0.0082	19	0.0019
00-251-068	1388 276	8	< 5	22	213	0.0213	117	0.0117	25	0.0025
00-251-069	1388 276	14	< 5	32	382	0.0382	341	0.0341	108	0.0108
00-251-070	1388 276	4	< 5	12	289	0.0289	265	0.0265	144	0.0144
00-251-071	1388 276	44	< 5	44	854	0.0854	469	0.0469	88	0.0088
00-251-072	1388 276	72	< 5	94	589	0.0589	381	0.0381	79	0.0079
00-251-073	1388 276	22	< 5	92	633	0.0633	339	0.0339	77	0.0077
00-251-074	1388 276	4	< 5	54	184	0.0184	217	0.0217	55	0.0055
00-251-075	1388 276	6	< 5	88	152	0.0152	244	0.0244	58	0.0058
00-251-076	1388 276	14	< 5	138	175	0.0175	284	0.0284	56	0.0056
00-251-077	1388 276	12	< 5	158	288	0.0288	371	0.0371	75	0.0075
00-251-078	1388 276	16	10	162	399	0.0399	412	0.0412	85	0.0085
00-251-079	1388 276	18	5	194	523	0.0523	527	0.0527	96	0.0096
00-251-080	1388 276	4	< 5	34	35	0.0035	109	0.0109	25	0.0025
00-251-081	1388 276	6	< 5	78	64	0.0064	153	0.0153	41	0.0041
251-STA-031	214 238	312	310	3400	1245	0.1245	1120	0.1120	42	0.0042

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 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

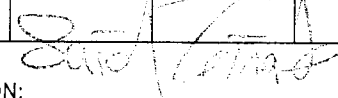
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Page Number : 1  
 Total Pages : 2  
 Certificate Date: 18-DEC-2000  
 Invoice No. : I0035669  
 P.O. Number :  
 Account : MZI

Project : 00-251  
 Comments: ATTN: MOE LAVIGNE

CERTIFICATE OF ANALYSIS A0035669

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-251-082	1388 276	8	10	114	13	0.0013	124	0.0124	37	0.0037
00-251-083	1388 276	16	20	148	49	0.0049	103	0.0103	32	0.0032
00-251-084	1388 276	< 2	< 5	16	21	0.0021	88	0.0088	26	0.0026
00-251-085	1388 276	< 2	< 5	14	22	0.0022	84	0.0084	23	0.0023
00-251-086	1388 294	4	15	34	114	0.0114	128	0.0128	27	0.0027
00-251-087	1388 294	4	15	22	111	0.0111	110	0.0110	23	0.0023
00-251-088	1388 294	< 2	< 5	26	62	0.0062	111	0.0111	25	0.0025
00-251-089	1388 276	< 2	< 5	16	20	0.0020	111	0.0111	31	0.0031
00-251-090	1388 294	2	< 5	22	30	0.0030	96	0.0096	25	0.0025
00-251-091	1388 294	4	15	126	34	0.0034	252	0.0252	65	0.0065
00-251-092	1388 276	14	10	88	228	0.0228	107	0.0107	21	0.0021
00-251-093	1388 276	20	15	108	337	0.0337	142	0.0142	35	0.0035
00-251-094	1388 276	< 2	< 5	30	41	0.0041	91	0.0091	26	0.0026
00-251-095	1388 276	4	15	42	140	0.0140	146	0.0146	33	0.0033
00-251-096	1388 276	< 2	< 5	40	220	0.0220	105	0.0105	23	0.0023
00-251-097	1388 276	< 2	< 5	26	146	0.0146	118	0.0118	34	0.0034
00-251-098	1388 276	< 2	< 5	26	149	0.0149	124	0.0124	37	0.0037
00-251-099	1388 276	4	5	44	120	0.0120	110	0.0110	36	0.0036
00-251-100	1388 276	4	15	106	63	0.0063	182	0.0182	47	0.0047
00-251-101	1388 276	28	25	126	147	0.0147	340	0.0340	57	0.0057
00-251-102	1388 276	44	40	134	153	0.0153	365	0.0365	56	0.0056
00-251-103	1388 276	8	55	80	158	0.0158	171	0.0171	50	0.0050
00-251-104	1388 276	4	< 5	26	50	0.0050	89	0.0089	28	0.0028
00-251-105	1388 276	10	10	66	98	0.0098	94	0.0094	28	0.0028
00-251-106	1388 276	8	10	106	69	0.0069	91	0.0091	31	0.0031
00-251-107	1388 276	6	< 5	88	42	0.0042	105	0.0105	29	0.0029
00-251-108	1388 294	6	20	40	100	0.0100	152	0.0152	30	0.0030
00-251-109	1388 294	10	25	158	133	0.0133	285	0.0285	47	0.0047
00-251-110	1388 294	10	20	114	131	0.0131	199	0.0199	39	0.0039
00-251-111	1388 276	6	25	98	89	0.0089	175	0.0175	40	0.0040
00-251-112	1388 276	4	25	112	65	0.0065	171	0.0171	34	0.0034
00-251-113	1388 294	6	20	136	120	0.0120	232	0.0232	35	0.0035
00-251-114	1388 294	12	< 5	4	219	0.0219	34	0.0034	12	0.0012
00-251-115	1388 276	2	< 5	4	60	0.0060	52	0.0052	15	0.0015
00-251-116	1388 276	42	70	424	401	0.0401	431	0.0431	54	0.0054
00-251-117	1388 294	22	30	184	460	0.0460	382	0.0382	52	0.0052
00-251-118	1388 276	10	35	178	384	0.0384	244	0.0244	38	0.0038
00-251-119	1388 276	< 2	15	78	157	0.0157	131	0.0131	30	0.0030
00-251-120	1388 294	2	40	130	117	0.0117	209	0.0209	45	0.0045
00-251-121	1388 294	20	40	262	332	0.0332	361	0.0361	53	0.0053

CERTIFICATION: 



# ALS Chemex

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 THUNDER BAY, ON  
 P7B 5J9

Page Number :2  
 Total Pages :2  
 Certificate Date: 18-DEC-2000  
 Invoice No. :10035669  
 P.O. Number :  
 Account :MZI

Project : 00-251  
 Comments: ATTN: MOE LAVIGNE

## CERTIFICATE OF ANALYSIS A0035669

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-251-122	1388 294	6	25	200	454	0.0454	211	0.0211	44	0.0044
00-251-123	1388 294	18	35	238	230	0.0230	241	0.0241	43	0.0043
00-251-124	1388 276	16	40	216	242	0.0242	216	0.0216	38	0.0038
00-251-125	1388 276	4	30	184	167	0.0167	203	0.0203	38	0.0038
00-251-126	1388 294	26	105	886	205	0.0205	269	0.0269	45	0.0045
00-251-127	1388 294	8	< 5	48	55	0.0055	133	0.0133	35	0.0035
00-251-128	1388 276	< 2	< 5	32	51	0.0051	119	0.0119	33	0.0033
00-251-129	1388 276	< 2	< 5	24	15	0.0015	128	0.0128	39	0.0039
00-251-130	1388 276	4	5	48	57	0.0057	116	0.0116	31	0.0031
00-251-131	1388 276	6	< 5	48	39	0.0039	91	0.0091	25	0.0025
00-251-132	1388 276	2	< 5	42	34	0.0034	102	0.0102	26	0.0026
00-251-133	1388 276	< 2	< 5	26	19	0.0019	76	0.0076	21	0.0021
00-251-134	1388 276	< 2	< 5	28	46	0.0046	92	0.0092	24	0.0024
00-251-135	1388 294	< 2	< 5	26	48	0.0048	71	0.0071	21	0.0021
251-STA-035	214 238	262	275	2910	1380	0.1380	1190	0.1190	44	0.0044

CERTIFICATION:

*Sara / [Signature]*



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

Project: 00-251  
 Comments: ATTN: MOE LAVIGNE

Page Number : 1  
 Total Pages : 1  
 Certificate Date: 18-DEC-2000  
 Invoice No. : 10035787  
 P.O. Number :  
 Account : MZI

## CERTIFICATE OF ANALYSIS A0035787

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-251-136	1388 276	2	< 5	2	96	0.0096	16	0.0016	27	0.0027
00-251-137	1388 276	4	< 5	4	92	0.0092	17	0.0017	23	0.0023
00-251-138	1388 276	2	< 5	10	100	0.0100	21	0.0021	23	0.0023
00-251-139	1388 276	2	< 5	4	74	0.0074	35	0.0035	24	0.0024
00-251-140	1388 276	2	< 5	4	65	0.0065	46	0.0046	28	0.0028
00-251-141	1388 276	2	< 5	8	90	0.0090	48	0.0048	35	0.0035
00-251-142	1388 276	2	< 5	14	62	0.0062	41	0.0041	25	0.0025
00-251-143	1388 276	< 2	10	78	12	0.0012	118	0.0118	27	0.0027
00-251-144	1388 276	2	10	78	22	0.0022	118	0.0118	29	0.0029
00-251-145	1388 276	2	65	190	24	0.0024	125	0.0125	28	0.0028
00-251-146	1388 276	2	60	132	39	0.0039	126	0.0126	30	0.0030
00-251-147	1388 276	6	40	150	28	0.0028	142	0.0142	26	0.0026
00-251-148	1388 276	4	15	130	70	0.0070	145	0.0145	26	0.0026
00-251-149	1388 276	8	15	102	92	0.0092	137	0.0137	27	0.0027
00-251-150	1388 276	2	< 5	24	52	0.0052	195	0.0195	34	0.0034
00-251-151	1388 276	< 2	< 5	20	41	0.0041	145	0.0145	29	0.0029
00-251-152	1388 276	4	< 5	12	106	0.0106	118	0.0118	24	0.0024
00-251-153	1388 276	6	< 5	4	301	0.0301	346	0.0346	44	0.0044
00-251-154	1388 276	2	< 5	16	32	0.0032	125	0.0125	20	0.0020
00-251-155	1388 276	< 2	< 5	18	15	0.0015	72	0.0072	13	0.0013
00-251-156	1388 276	< 2	< 5	24	18	0.0018	290	0.0290	31	0.0031
00-251-157	1388 276	2	< 5	2	70	0.0070	33	0.0033	30	0.0030
00-251-158	1388 276	< 2	< 5	30	18	0.0018	55	0.0055	25	0.0025
00-251-159	1388 276	2	< 5	28	32	0.0032	219	0.0219	56	0.0056
00-251-160	1388 276	< 2	< 5	40	25	0.0025	241	0.0241	63	0.0063
00-251-161	1388 276	< 2	< 5	40	26	0.0026	236	0.0236	62	0.0062
00-251-162	1388 276	6	10	30	118	0.0118	115	0.0115	35	0.0035
00-251-163	1388 276	2	< 5	26	37	0.0037	97	0.0097	26	0.0026
00-251-164	1388 276	2	< 5	34	49	0.0049	99	0.0099	28	0.0028
00-251-165	1388 276	2	20	34	49	0.0049	98	0.0098	29	0.0029
00-251-166	1388 276	8	20	52	120	0.0120	117	0.0117	31	0.0031
00-251-167	1388 276	16	25	138	275	0.0275	137	0.0137	25	0.0025
00-251-168	1388 276	4	< 5	16	145	0.0145	40	0.0040	18	0.0018
00-251-169	1388 276	4	< 5	18	211	0.0211	43	0.0043	19	0.0019
00-251-170	1388 276	2	< 5	14	140	0.0140	41	0.0041	17	0.0017
00-251-171	1388 276	2	< 5	< 2	165	0.0165	40	0.0040	37	0.0037
251-STA-040	214 238	240	270	2990	1320	0.1320	1110	0.1110	40	0.0040

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# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

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Page Number :1  
 Total Pages :3  
 Certificate Date: 20-DEC-2000  
 Invoice No. : I0035935  
 P.O. Number :  
 Account : MZI

Project : 00-251  
 Comments: ATTN: MOE LAVIGNE

## CERTIFICATE OF ANALYSIS A0035935

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-251-172	1388 276	4	5	30	110	0.0110	45	0.0045	13	0.0013
00-251-173	1388 276	4	10	62	167	0.0167	80	0.0080	23	0.0023
00-251-174	1388 276	2	15	78	126	0.0126	113	0.0113	30	0.0030
00-251-175	1388 276	< 2	10	64	49	0.0049	109	0.0109	29	0.0029
00-251-176	1388 276	< 2	5	40	297	0.0297	89	0.0089	34	0.0034
00-251-177	1388 276	< 2	25	284	17	0.0017	199	0.0199	42	0.0042
00-251-178	1388 276	< 2	15	136	16	0.0016	153	0.0153	35	0.0035
00-251-179	1388 276	< 2	10	128	50	0.0050	130	0.0130	27	0.0027
00-251-180	1388 276	4	10	156	20	0.0020	118	0.0118	26	0.0026
00-251-181	1388 276	2	< 5	108	13	0.0013	142	0.0142	33	0.0033
00-251-182	1388 276	< 2	5	70	23	0.0023	110	0.0110	23	0.0023
00-251-183	1388 276	< 2	< 5	22	7	0.0007	149	0.0149	31	0.0031
00-251-184	1388 276	< 2	< 5	14	6	0.0006	129	0.0129	23	0.0023
00-251-185	1388 276	< 2	25	200	71	0.0071	164	0.0164	39	0.0039
00-251-186	1388 276	4	20	114	61	0.0061	207	0.0207	42	0.0042
00-251-187	1388 276	4	30	202	79	0.0079	221	0.0221	46	0.0046
00-251-188	1388 276	< 2	15	108	18	0.0018	201	0.0201	46	0.0046
00-251-189	1388 276	< 2	30	246	61	0.0061	219	0.0219	48	0.0048
00-251-190	1388 276	< 2	20	160	103	0.0103	190	0.0190	43	0.0043
00-251-191	1388 276	< 2	20	154	296	0.0296	192	0.0192	49	0.0049
00-251-192	1388 294	< 2	15	76	80	0.0080	167	0.0167	46	0.0046
00-251-193	1388 276	< 2	20	156	92	0.0092	154	0.0154	39	0.0039
00-251-194	1388 294	4	25	216	76	0.0076	171	0.0171	41	0.0041
00-251-195	1388 276	4	15	156	92	0.0092	136	0.0136	35	0.0035
00-251-196	1388 276	4	15	128	66	0.0066	133	0.0133	37	0.0037
00-251-197	1388 276	2	15	168	67	0.0067	142	0.0142	39	0.0039
00-251-198	1388 276	2	30	280	23	0.0023	224	0.0224	51	0.0051
00-251-199	1388 276	8	35	256	110	0.0110	186	0.0186	42	0.0042
00-251-200	1388 276	8	40	170	55	0.0055	125	0.0125	28	0.0028
00-251-201	1388 276	6	20	130	35	0.0035	122	0.0122	32	0.0032
00-251-202	1388 276	4	5	116	35	0.0035	124	0.0124	31	0.0031
00-251-203	1388 276	4	10	114	42	0.0042	142	0.0142	37	0.0037
00-251-204	1388 276	6	10	150	58	0.0058	117	0.0117	35	0.0035
00-251-205	1388 276	18	75	456	149	0.0149	197	0.0197	41	0.0041
00-251-206	1388 276	118	275	2120	970	0.0970	839	0.0839	56	0.0056
00-251-207	1388 276	6	15	188	92	0.0092	140	0.0140	33	0.0033
00-251-208	1388 276	4	10	170	51	0.0051	137	0.0137	31	0.0031
00-251-209	1388 276	2	5	148	27	0.0027	122	0.0122	32	0.0032
00-251-210	1388 276	18	90	514	182	0.0182	219	0.0219	34	0.0034
00-251-211	1388 276	6	65	258	48	0.0048	135	0.0135	29	0.0029

CERTIFICATION: *S. J. [Signature]*



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

Project : 00-251  
 Comments: ATTN: MOE LAVIGNE

Page Number :2  
 Total Pages :3  
 Certificate Date: 20-DEC-2000  
 Invoice No. : I0035935  
 P.O. Number :  
 Account : MZI

## CERTIFICATE OF ANALYSIS A0035935

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-251-212	1388 276	< 2	45	246	29	0.0029	132	0.0132	29	0.0029
00-251-213	1388 276	6	50	312	20	0.0020	129	0.0129	30	0.0030
00-251-214	1388 276	8	80	180	46	0.0046	136	0.0136	33	0.0033
00-251-215	1388 276	4	45	132	65	0.0065	169	0.0169	38	0.0038
00-251-216	1388 294	16	40	172	145	0.0145	192	0.0192	36	0.0036
00-251-217	1388 276	4	35	146	23	0.0023	151	0.0151	36	0.0036
00-251-218	1388 276	6	20	138	35	0.0035	134	0.0134	33	0.0033
00-251-219	1388 276	4	10	138	36	0.0036	161	0.0161	38	0.0038
00-251-220	1388 276	20	35	274	199	0.0199	199	0.0199	29	0.0029
00-251-221	1388 276	80	155	1205	639	0.0639	706	0.0706	49	0.0049
00-251-222	1388 276	42	50	358	194	0.0194	253	0.0253	28	0.0028
00-251-223	1388 276	4	5	32	31	0.0031	118	0.0118	22	0.0022
00-251-224	1388 276	4	15	96	42	0.0042	141	0.0141	25	0.0025
00-251-225	1388 276	18	25	164	101	0.0101	277	0.0277	52	0.0052
00-251-226	1388 276	12	30	194	89	0.0089	251	0.0251	52	0.0052
00-251-227	1388 276	6	15	88	60	0.0060	246	0.0246	52	0.0052
00-251-228	1388 276	8	20	140	74	0.0074	252	0.0252	54	0.0054
00-251-229	1388 294	6	30	234	69	0.0069	215	0.0215	24	0.0024
00-251-230	1388 276	< 2	< 5	26	14	0.0014	127	0.0127	21	0.0021
00-251-231	1388 276	6	5	60	133	0.0133	235	0.0235	30	0.0030
00-251-232	1388 294	8	25	154	179	0.0179	238	0.0238	54	0.0054
00-251-233	1388 294	6	5	68	164	0.0164	253	0.0253	41	0.0041
00-251-234	1388 276	< 2	< 5	24	23	0.0023	132	0.0132	29	0.0029
00-251-235	1388 276	< 2	< 5	26	41	0.0041	175	0.0175	30	0.0030
00-251-236	1388 276	< 2	< 5	28	49	0.0049	153	0.0153	35	0.0035
00-251-237	1388 276	< 2	< 5	18	20	0.0020	139	0.0139	33	0.0033
00-251-238	1388 294	4	< 5	2	196	0.0196	43	0.0043	56	0.0056
00-251-239	1388 294	< 2	< 5	28	15	0.0015	146	0.0146	26	0.0026
00-251-240	1388 276	< 2	< 5	28	24	0.0024	90	0.0090	28	0.0028
00-251-241	1388 276	< 2	< 5	16	18	0.0018	98	0.0098	25	0.0025
00-251-242	1388 276	< 2	< 5	24	11	0.0011	84	0.0084	20	0.0020
00-251-243	1388 276	< 2	30	34	12	0.0012	94	0.0094	24	0.0024
00-251-244	1388 276	2	10	40	75	0.0075	69	0.0069	17	0.0017
00-251-245	1388 276	14	< 5	2	566	0.0566	21	0.0021	37	0.0037
00-251-246	1388 294	16	< 5	< 2	811	0.0811	18	0.0018	26	0.0026
00-251-247	1388 294	4	< 5	18	207	0.0207	48	0.0048	15	0.0015
00-251-248	1388 276	10	45	278	446	0.0446	160	0.0160	26	0.0026
00-251-249	1388 276	20	5	32	198	0.0198	34	0.0034	12	0.0012
00-251-250	1388 276	6	10	38	160	0.0160	33	0.0033	10	0.0010
00-251-251	1388 276	2	< 5	20	111	0.0111	49	0.0049	14	0.0014

CERTIFICATION: \_\_\_\_\_



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
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To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

Page Number :3  
 Total Pages :3  
 Certificate Date: 20-DEC-2000  
 Invoice No. : 10035935  
 P.O. Number :  
 Account : MZI

Project : 00-251  
 Comments: ATTN: MOE LAVIGNE

## CERTIFICATE OF ANALYSIS A0035935

SAMPLE	PREP CODE		Au ppb	Pt ppb	Pd ppb	Cu	Cu %	Ni	Ni %	Co	Co %	
	ICP	ICP	ICP	ICP	ICP	ppm	calc.	ppm	calc.	ppm	calc.	
00-251-252	1388	276	4	< 5	14	119	0.0119	54	0.0054	16	0.0016	
00-251-253	1388	276	6	< 5	14	101	0.0101	34	0.0034	10	0.0010	
00-251-254	1388	276	4	< 5	14	133	0.0133	37	0.0037	12	0.0012	
00-251-255	1388	276	6	< 5	14	149	0.0149	31	0.0031	11	0.0011	
00-251-256	1388	276	6	< 5	14	152	0.0152	35	0.0035	11	0.0011	
00-251-257	1388	276	4	< 5	12	134	0.0134	31	0.0031	9	0.0009	
00-251-258	1388	276	8	< 5	14	145	0.0145	29	0.0029	12	0.0012	
00-251-259	1388	276	14	45	296	230	0.0230	169	0.0169	17	0.0017	
00-251-260	1388	276	18	90	612	421	0.0421	313	0.0313	28	0.0028	
00-251-261	1388	276	8	25	160	247	0.0247	95	0.0095	16	0.0016	
00-251-262	1388	276	16	60	416	371	0.0371	212	0.0212	31	0.0031	
00-251-263	1388	276	12	80	528	332	0.0332	259	0.0259	20	0.0020	
251-STA-048	214	238	194	270	3350	1290	0.1290	1140	0.1140	43	0.0043	

CERTIFICATION: \_\_\_\_\_



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 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.-EXPLORATION  
 NORTH AMERICAN PALLADIUM  
 P.O. BOX 10547  
 THUNDER BAY, ON  
 P7B 6T9

Page Number : 1-A  
 Total Pages : 2  
 Certificate Date: 13-AUG-2001  
 Invoice No. : 10121661  
 P.O. Number : 1000183  
 Account : MZI

Project : #1033-00-251  
 Comments : ATTN: MOE LAVIGNE

## CERTIFICATE OF ANALYSIS A0121661

SAMPLE	PREP		Pd ppb	Pt ppb	Au ppb	Al2O3	Fe2O3	MgO	Cu %	Ni %	Co %	Fe %	S %	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm
	CODE		ICP-MS	ICP-MS	ICP-MS	% Calc	% Calc	% Calc	calc.	calc.	calc.	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)
00-251-264	1388	294	110	23.0	5	13.05	8.69	10.35	0.0133	0.0249	0.0056	6.08	0.12	< 0.5	6.90	< 5	60	< 0.5	< 2	6.3	< 0.5
00-251-265	1388	294	81	15.0	2	21.7	5.06	5.12	0.0062	0.0127	0.0028	3.54	0.02	< 0.5	11.50	< 5	170	< 0.5	< 2	6.7	< 0.5
00-251-266	1388	294	580	92.0	26	20.1	7.59	7.58	0.0512	0.0442	0.0051	5.31	0.22	< 0.5	10.64	< 5	150	< 0.5	< 2	7.1	< 0.5
00-251-267	1388	276	86	13.0	3	21.9	3.39	3.42	0.0047	0.0099	0.0018	2.37	0.03	< 0.5	11.57	< 5	130	< 0.5	< 2	7.5	< 0.5
00-251-268	1388	226	450	73.5	21	9.03	11.60	13.45	0.0194	0.0461	0.0076	8.11	0.12	< 0.5	4.78	< 5	20	< 0.5	< 2	4.0	< 0.5
00-251-269	1388	226	200	42.5	17	7.61	11.35	13.75	0.0128	0.0469	0.0074	7.93	0.08	0.5	4.03	< 5	10	< 0.5	< 2	3.9	< 0.5
00-251-270	1388	226	220	50.0	40	9.35	12.20	15.00	0.0329	0.0629	0.0080	8.54	0.08	< 0.5	4.95	< 5	20	< 0.5	< 2	3.9	< 0.5
00-251-271	1388	226	290	73.5	16	11.25	10.70	13.40	0.0170	0.0485	0.0072	7.48	0.08	< 0.5	5.96	< 5	70	< 0.5	< 2	4.7	< 0.5
00-251-272	1388	226	200	53.5	5	12.45	9.02	11.35	0.0032	0.0329	0.0058	6.31	< 0.01	< 0.5	6.58	< 5	60	< 0.5	< 2	4.3	< 0.5
00-251-273	1388	226	195	57.0	15	11.80	10.20	12.00	0.0118	0.0371	0.0067	7.12	0.02	< 0.5	6.25	< 5	60	< 0.5	< 2	4.5	< 0.5
00-251-274	1388	276	98	27.5	8	12.20	9.55	11.40	0.0069	0.0368	0.0058	6.68	0.03	< 0.5	6.46	< 5	80	< 0.5	< 2	4.7	< 0.5
00-251-275	1388	276	91	30.5	11	10.45	9.32	12.35	0.0081	0.0396	0.0059	6.52	0.04	< 0.5	5.52	< 5	50	< 0.5	< 2	4.6	< 0.5
00-251-276	1388	276	340	68.5	36	9.62	10.60	13.95	0.0313	0.0592	0.0067	7.40	0.11	0.5	5.09	< 5	30	< 0.5	< 2	4.1	< 0.5
00-251-277	1388	294	115	35.0	15	10.90	8.49	11.85	0.0232	0.0465	0.0057	5.94	0.11	< 0.5	5.78	< 5	60	< 0.5	< 2	5.4	< 0.5
00-251-278	1388	294	380	72.5	42	10.65	10.65	12.65	0.0277	0.0515	0.0067	7.45	0.11	< 0.5	5.64	< 5	40	< 0.5	< 2	4.0	< 0.5
00-251-279	1388	226	360	64.0	32	10.85	11.30	12.90	0.0192	0.0492	0.0071	7.92	0.09	< 0.5	5.74	< 5	50	< 0.5	< 2	4.1	< 0.5
00-251-280	1388	276	220	48.5	23	10.75	11.15	13.55	0.0137	0.0473	0.0068	7.81	0.06	< 0.5	5.70	< 5	80	< 0.5	< 2	4.2	< 0.5
00-251-281	1388	276	660	118.0	78	11.40	10.40	13.50	0.0478	0.0676	0.0067	7.26	0.15	< 0.5	6.03	< 5	60	< 0.5	< 2	4.5	< 0.5
00-251-282	1388	276	1280	228	165	9.64	10.15	12.55	0.0885	0.0942	0.0071	7.10	0.32	< 0.5	5.10	< 5	60	< 0.5	< 2	3.8	< 0.5
00-251-283	1388	276	500	95.0	58	11.25	10.80	13.55	0.0346	0.0612	0.0069	7.57	0.13	< 0.5	5.95	< 5	70	< 0.5	< 2	4.3	< 0.5
00-251-284	1388	276	340	56.0	15	12.05	8.98	11.65	0.0059	0.0391	0.0055	6.28	0.03	< 0.5	6.38	< 5	70	< 0.5	< 2	4.0	< 0.5
00-251-285	1388	276	290	51.0	23	11.95	10.95	14.20	0.0087	0.0511	0.0069	7.67	0.03	< 0.5	6.32	< 5	70	< 0.5	< 2	4.5	< 0.5
00-251-286	1388	276	340	58.5	25	12.25	10.35	13.80	0.0096	0.0484	0.0064	7.24	0.03	< 0.5	6.49	< 5	60	< 0.5	< 2	4.2	< 0.5
00-251-287	1388	226	330	54.0	25	10.65	10.50	14.40	0.0069	0.0482	0.0066	7.36	0.03	< 0.5	5.64	< 5	50	< 0.5	< 2	4.1	< 0.5
00-251-288	1388	294	240	51.0	21	11.00	10.25	14.40	0.0076	0.0476	0.0065	7.17	0.04	< 0.5	5.81	< 5	50	< 0.5	< 2	4.0	< 0.5
00-251-289	1388	276	230	47.0	21	12.05	10.30	14.45	0.0076	0.0479	0.0063	7.22	0.02	< 0.5	6.37	< 5	50	< 0.5	< 2	4.2	< 0.5
00-251-290	1388	276	210	45.5	21	10.65	8.91	12.75	0.0065	0.0446	0.0060	6.23	0.02	< 0.5	5.64	< 5	30	< 0.5	< 2	4.0	< 0.5
00-251-291	1388	294	260	46.0	11	11.80	8.94	12.85	0.0061	0.0430	0.0057	6.25	0.01	< 0.5	6.25	< 5	60	< 0.5	< 2	4.1	< 0.5
00-251-292	1388	294	310	57.5	7	10.90	10.10	14.30	0.0055	0.0493	0.0065	7.08	0.03	< 0.5	5.77	< 5	10	< 0.5	< 2	4.1	< 0.5
00-251-293	1388	226	155	33.0	6	13.70	9.31	11.85	0.0078	0.0358	0.0056	6.51	0.04	< 0.5	7.25	< 5	80	< 0.5	< 2	4.4	< 0.5
00-251-294	1388	226	250	45.0	4	12.20	10.00	12.70	0.0051	0.0436	0.0063	7.01	0.04	< 0.5	6.46	< 5	70	< 0.5	< 2	4.4	< 0.5
00-251-295	1388	294	220	40.5	6	12.75	11.20	14.45	0.0070	0.0498	0.0071	7.84	0.06	< 0.5	6.75	< 5	50	< 0.5	< 2	4.1	< 0.5
00-251-296	1388	226	280	51.5	14	11.70	10.50	13.80	0.0091	0.0492	0.0067	7.34	0.02	< 0.5	6.19	< 5	30	< 0.5	< 2	3.7	< 0.5
00-251-297	1388	226	760	117.5	66	11.20	10.80	14.10	0.0173	0.0566	0.0072	7.56	0.11	< 0.5	5.92	< 5	40	< 0.5	< 2	3.8	< 0.5
00-251-298	1388	276	380	57.5	25	10.90	10.85	14.45	0.0115	0.0502	0.0070	7.59	0.04	< 0.5	5.78	< 5	60	< 0.5	< 2	4.2	< 0.5
00-251-299	1388	294	200	41.0	17	10.15	9.87	13.75	0.0070	0.0466	0.0065	6.90	0.02	< 0.5	5.38	< 5	40	< 0.5	< 2	4.0	< 0.5
00-251-300	1388	226	400	64.5	37	10.45	11.25	15.65	0.0185	0.0579	0.0078	7.87	0.13	0.5	5.54	< 5	20	< 0.5	< 2	4.4	< 0.5
00-251-301	1388	226	350	61.5	22	10.60	10.35	14.30	0.0087	0.0485	0.0065	7.25	0.03	< 0.5	5.60	< 5	60	< 0.5	< 2	4.3	< 0.5
00-251-302	1388	294	1760	228	200	10.30	12.95	13.30	0.1240	0.1025	0.0095	9.07	0.47	1.0	5.46	< 5	60	< 0.5	< 2	4.0	1.0
00-251-303	1388	294	1230	160.0	135	10.90	11.60	13.05	0.0967	0.0883	0.0085	8.10	0.29	< 0.5	5.77	< 5	80	< 0.5	< 2	3.8	< 0.5

CERTIFICATION: \_\_\_\_\_



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
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 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.-EXPLORATION  
 NORTH AMERICAN PALLADIUM  
 P.O. BOX 10547  
 THUNDER BAY, ON  
 P7B 6T9

Page Number : 2-A  
 Total Pages : 2  
 Certificate Date: 13 AUG-2001  
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 P.O. Number : 1000183  
 Account : MZI

Project : #1033-00-251  
 Comments : ATTN: MOE LAVIGNE

## CERTIFICATE OF ANALYSIS A0121661

SAMPLE	PREP CODE		Pd ppb	Pt ppb	Au ppb	Al2O3	Fe2O3	MgO	Cu %	Ni %	Co %	Fe %	S %	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm
	ICP-MS	ICP-MS	ICP-MS	% Calc	% Calc	% Calc	calc.	calc.	calc.	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)
00-251-304	1388	294	810	107.0	135	9.84	10.15	15.40	0.0416	0.0688	0.0081	7.09	0.28	< 0.5	5.21	< 5	60	< 0.5	2	4.4	< 0.5
00-251-305	1388	294	940	145.0	84	11.30	9.92	13.15	0.0606	0.0651	0.0072	6.94	0.20	< 0.5	5.97	< 5	50	< 0.5	< 2	4.8	< 0.5
00-251-306	1388	226	640	101.0	62	15.40	7.43	8.84	0.0428	0.0491	0.0056	5.20	0.16	< 0.5	8.15	< 5	90	< 0.5	< 2	5.0	< 0.5
00-251-307	1388	276	740	116.0	76	17.00	7.18	8.31	0.0546	0.0599	0.0053	5.02	0.20	< 0.5	9.01	< 5	100	< 0.5	< 2	5.5	< 0.5
00-251-308	1388	276	360	69.5	21	14.30	8.78	9.98	0.0221	0.0380	0.0057	6.14	0.09	< 0.5	7.57	< 5	80	< 0.5	2	6.1	< 0.5
00-251-309	1388	276	700	119.0	82	11.55	10.05	9.70	0.0674	0.0483	0.0072	7.02	0.24	< 0.5	6.12	< 5	80	< 0.5	< 2	6.9	< 0.5
00-251-310	1388	276	460	56.5	100	15.65	9.64	8.57	0.0881	0.0440	0.0062	6.74	0.22	< 0.5	8.27	< 5	80	< 0.5	< 2	6.2	< 0.5
00-251-311	1388	226	1880	232	165	14.00	7.92	10.95	0.0613	0.0807	0.0070	5.54	0.23	< 0.5	7.40	< 5	100	< 0.5	< 2	4.3	< 0.5
00-251-312	1388	294	100	21.0	135	15.05	8.05	7.13	0.0817	0.0232	0.0045	5.63	0.25	< 0.5	7.96	< 5	40	< 0.5	< 2	4.8	< 0.5
00-251-STA-199	2143	3285	3200	324	260	15.40	6.46	10.35	0.1190	0.1330	0.0063	4.52	0.33	< 0.5	8.16	< 5	50	< 0.5	< 2	5.9	< 0.5

CERTIFICATION: \_\_\_\_\_ +



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
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To: LAC DES ILES MINES LTD.-EXPLORATION  
 NORTH AMERICAN PALLADIUM  
 P.O. BOX 10547  
 THUNDER BAY, ON  
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Page Number :1-A  
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 Certificate Date: 13-AUG-2001  
 Invoice No. : I0121783  
 P.O. Number : 1000187  
 Account : MZI

Project : #1033-00-251  
 Comments: ATTN: MOE LAVIGNE

## CERTIFICATE OF ANALYSIS A0121783

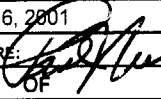
SAMPLE	PREP		Pd ppb	Pt ppb	Au ppb	Al2O3	Fe2O3	MgO	Cu %	Ni %	Co %	Fe %	S %	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm
	CODE		ICP-MS	ICP-MS	ICP-MS	% Calc	% Calc	% Calc	calc.	calc.	calc.	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)
00-251-313	1388	276	170	37.5	66	15.95	8.45	6.45	0.0863	0.0374	0.0052	5.91	0.17	< 0.5	8.45	< 5	130	< 0.5	< 2	6.5	1.0
00-251-314	1388	276	1060	129.0	130	15.20	7.85	8.04	0.0598	0.0545	0.0055	5.49	0.17	< 0.5	8.04	< 5	100	< 0.5	< 2	5.2	0.5
00-251-315	1388	276	770	122.0	52	18.40	5.20	7.68	0.0246	0.0491	0.0038	3.64	0.07	< 0.5	9.75	< 5	170	< 0.5	< 2	6.4	1.5
00-251-316	1388	276	400	63.0	74	14.10	7.71	9.87	0.0912	0.0588	0.0070	5.39	0.47	1.5	7.46	< 5	70	< 0.5	< 2	5.0	2.0
00-251-317	1388	276	740	117.0	54	10.30	9.61	12.60	0.0572	0.0644	0.0083	6.72	0.45	0.5	5.44	< 5	30	< 0.5	< 2	4.7	1.0
00-251-318	1388	276	62	13.5	22	12.35	8.95	8.82	0.0377	0.0207	0.0055	6.26	0.46	< 0.5	6.54	< 5	40	< 0.5	< 2	4.3	1.5
00-251-319	1388	276	2300	295	240	9.41	10.15	11.00	0.1600	0.0997	0.0097	7.10	0.74	4.0	4.98	< 5	30	< 0.5	< 2	4.2	6.5
00-251-320	1388	276	1210	155.5	125	18.85	5.36	7.21	0.0205	0.0495	0.0035	3.75	0.06	< 0.5	9.98	< 5	130	< 0.5	< 2	4.9	1.0
00-251-321	1388	276	1730	248	120	17.65	6.03	8.92	0.0221	0.0719	0.0044	4.22	0.04	< 0.5	9.33	< 5	80	< 0.5	< 2	5.3	0.5
00-251-322	1388	276	2300	250	130	16.65	4.99	6.98	0.0385	0.0581	0.0038	3.49	0.08	< 0.5	8.82	< 5	100	< 0.5	< 2	6.1	0.5
00-251-323	1388	276	2800	326	135	19.95	5.76	7.58	0.0603	0.0886	0.0048	4.03	0.19	< 0.5	10.57	5	90	< 0.5	< 2	7.5	1.5
00-251-324	1388	276	3900	506	380	10.85	10.85	10.55	0.1920	0.1625	0.0086	7.58	0.67	0.5	5.73	< 5	40	< 0.5	< 2	4.4	0.5
00-251-325	1388	276	3400	427	175	17.95	5.32	6.09	0.0850	0.1020	0.0049	3.72	0.34	< 0.5	9.50	< 5	110	< 0.5	< 2	6.5	0.5
00-251-326	1388	276	4600	619	580	7.67	13.60	12.30	0.2750	0.2010	0.0116	9.50	1.08	1.5	4.06	10	30	< 0.5	< 2	3.8	1.5
00-251-327	1388	276	4100	556	500	7.95	14.05	13.00	0.2280	0.1655	0.0111	9.81	0.87	1.0	4.21	< 5	30	< 0.5	< 2	3.4	1.0
00-251-328	1388	276	3000	420	360	9.33	12.30	11.80	0.1875	0.1240	0.0099	8.60	0.74	1.0	4.94	5	30	< 0.5	< 2	3.9	1.0
00-251-329	1388	276	1050	137.5	44	17.75	4.66	6.63	0.0149	0.0503	0.0033	3.26	0.05	< 0.5	9.39	< 5	110	< 0.5	< 2	6.4	1.0
00-251-330	1388	276	2100	271	160	16.65	5.32	7.05	0.0763	0.0877	0.0046	3.72	0.17	< 0.5	8.81	5	110	< 0.5	< 2	6.1	0.5
00-251-331	1388	276	1420	179.0	71	16.90	5.19	7.76	0.0268	0.0580	0.0039	3.63	0.06	< 0.5	8.94	< 5	110	< 0.5	< 2	6.2	1.0
00-251-332	1388	276	1950	285	120	16.85	5.49	7.99	0.0516	0.0622	0.0044	3.84	0.14	< 0.5	8.92	< 5	60	< 0.5	< 2	6.9	1.0
00-251-333	1388	276	2200	257	130	15.25	4.05	5.67	0.0522	0.0610	0.0035	2.83	0.17	< 0.5	8.07	< 5	60	< 0.5	< 2	6.4	0.5
00-251-334	1388	276	1930	249	79	16.75	4.76	7.21	0.0296	0.0593	0.0039	3.33	0.10	< 0.5	8.86	< 5	60	< 0.5	< 2	7.0	0.5
00-251-335	1388	276	1040	136.5	42	16.20	5.25	7.30	0.0306	0.0474	0.0040	3.67	0.10	< 0.5	8.58	< 5	80	< 0.5	< 2	6.4	1.5
00-251-336	1388	276	290	45.0	33	16.00	4.90	7.38	0.0171	0.0363	0.0039	3.43	0.04	< 0.5	8.47	< 5	70	< 0.5	< 2	7.0	0.5
00-251-337	1388	276	610	73.5	55	15.70	5.05	7.74	0.0264	0.0444	0.0040	3.53	0.08	< 0.5	8.32	< 5	60	< 0.5	< 2	7.3	1.5
00-251-338	1388	276	1710	243	155	15.85	5.33	7.91	0.0777	0.0765	0.0051	3.73	0.23	0.5	8.40	5	60	< 0.5	< 2	6.6	1.5
00-251-339	1388	276	460	80.5	27	17.20	4.48	7.25	0.0186	0.0392	0.0037	3.13	0.04	< 0.5	9.10	< 5	70	< 0.5	< 2	6.4	< 0.5
00-251-340	1388	276	430	84.5	42	16.25	4.70	7.25	0.0259	0.0443	0.0038	3.29	0.06	< 0.5	8.60	< 5	80	< 0.5	< 2	6.7	< 0.5
00-251-341	1388	276	380	62.0	23	16.60	4.63	6.63	0.0152	0.0376	0.0034	3.24	0.04	< 0.5	8.78	15	80	< 0.5	< 2	6.8	0.5
00-251-342	1388	276	105	31.0	18	17.10	4.68	7.84	0.0160	0.0332	0.0039	3.27	0.04	< 0.5	9.04	< 5	60	< 0.5	< 2	7.0	0.5
00-251-343	1388	276	120	18.0	35	16.60	4.45	6.77	0.0231	0.0310	0.0033	3.11	0.05	< 0.5	8.79	15	60	< 0.5	< 2	7.0	< 0.5
00-251-344	1388	276	230	38.5	29	15.25	4.78	7.46	0.0323	0.0352	0.0038	3.34	0.06	< 0.5	8.07	5	60	< 0.5	< 2	6.8	0.5
00-251-345	1388	276	175	21.5	14	15.25	4.48	6.95	0.0162	0.0390	0.0034	3.13	0.05	< 0.5	8.07	5	50	< 0.5	< 2	6.9	1.0
00-251-346	1388	276	120	18.0	19	16.45	4.69	7.36	0.0222	0.0374	0.0038	3.28	0.05	< 0.5	8.71	5	50	< 0.5	< 2	7.1	1.5
00-251-347	1388	276	700	102.5	60	15.30	5.10	7.86	0.0320	0.0466	0.0042	3.57	0.11	< 0.5	8.10	< 5	50	< 0.5	< 2	6.7	0.5
00-251-348	1388	276	300	61.5	18	16.55	5.06	8.07	0.0159	0.0383	0.0041	3.54	0.06	< 0.5	8.77	5	60	< 0.5	< 2	7.4	0.5
00-251-349	1388	276	300	43.0	14	16.85	4.42	6.55	0.0161	0.0350	0.0031	3.09	0.05	< 0.5	8.93	5	70	< 0.5	< 2	7.0	0.5
00-251-350	1388	276	310	80.5	25	16.75	4.92	6.88	0.0242	0.0346	0.0039	3.44	0.09	< 0.5	8.86	< 5	50	< 0.5	< 2	7.4	< 0.5
00-251-351	1388	276	170	51.5	13	16.20	4.68	6.95	0.0187	0.0296	0.0035	3.27	0.07	< 0.5	8.57	5	40	< 0.5	< 2	7.6	0.5
00-251-STA-202	2143	285	3000	299	290	13.70	5.46	8.49	0.1135	0.1280	0.0058	3.82	0.34	0.5	7.24	10	50	< 0.5	< 2	5.6	1.0

CERTIFICATION: \_\_\_\_\_

# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.

LAC DES ILES MINES LTD.

<b>PROPERTY:</b>	LAC DES ILES	<b>Claim:</b>	253	<b>DOWNHOLE SURVEY METHOD:</b>			Maxibor	<b>DRILLING COMPANY:</b>			CHIBOUGAMAOU	
<b>HOLE NO.:</b>	00-204	<b>LENGTH: (m)</b>	1233 m	<b>CORE SIZE:</b>	NQ	<b>DEPTH</b>	DIP	AZM	<b>DEPTH</b>	DIP	AZM	<b>REMARKS:</b> Core is stored at Lac des Iles Mine Site
<b>LOCATION - MINE GRID OR UTM:</b>		<b>NORTHING:</b>	32309.997	<b>EASTING:</b>	32705.414	054m						Pxn Zone 390 Samples
<b>SECTION:</b>	512N	<b>ZONE:</b>	Roby	<b>ELEVATION:</b>	509.62	270m						<b>DATE LOGGED:</b> July 23 - July 16, 2001
<b>COLLAR ORIENTATION (AZIMUTH / DIP);</b>		<b>PLANNED:</b>	248.5/-50.7°	<b>SURVEYED:</b>	249.612°/-50.214°							<b>LOGGED:</b> S. Burgess
<b>HOLE STARTED:</b>	5-Feb-00	<b>HOLE FINISHED:</b>	26-Jul-01	<b>MAG DECLINATION:</b>	2.1° w							<b>SIGNATURE:</b> 
												<b>SHEET</b> 1 OF 45

METERAGE		DESCRIPTION	Rock Code	SAMPLES					ASSAYS									
FROM	TO			Alt <sup>n</sup>	Bx Matrix		No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
				Plag	Pxr	Comp												
0.00	3.35	<b>CASING, OVERBURDEN</b>																
3.35	9.00	<b>GABBRONORITE</b> Medium to locally coarse grained Dull grey, brownish tint Plag 35-50% (avg 35-45%), Cpx 35-40%, Opx 10-30% Rocks quite fractured, broken Very weak alteration, no sulfide Gradational contact																
				1	1	001	3.35	6.00	2.65	nil		0.14	<0.07	<0.03	----	----		
				1	1	002	6.00	9.00	3.00	nil		0.14	<0.07	<0.03	----	----		
9.00	14.91	<b>MELANOGABBRO + MELANOGABBRONORITE</b> Medium grained, quite fractured until 13.50m, then less fractured Dull grey-green Plag 15-35%, Cpx 65-90%, Opx 5-15% Weak-moderate actinolite alteration, minor talc, serpentine, chlorite at 11.56-11.75m in small shear zone; rocks pitted... Overall Opx weathers out - pitting Occasional quartz-diorite dikes; 9.69-10.10m - contacts at 60° (shear at 9.91-9.99; 60°, biotite, phlogopite alteration); also quartz diorite diek at 14.51-14.65m with shear 14.65-14.71m - 40° Sharp contact at 45°																
				1	2	003	9.00	12.00	3.00	nil		0.07	<0.07	<0.03	----	----		
				1	2	004	12.00	14.91	2.91	nil		0.07	<0.07	<0.03	----	----		



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# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE N. Roby/Baker HOLE # 00-204

LOGGED BY: S. Burgess SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES						ASSAYS					
FROM	TO		Plag	Pxt	Coml	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
14.91	39.97		<p><b>GABBRONORITE</b></p> <p>Similar ot top unit, but more alteration Medium to medium-coarse grained Dull grey/brown, minor green; mottled Plag 30-50%, Cpx 50-65%, Opx 10-30% Local small (0.5-1.5m) lenses of melano-gabbronorite Unit by 36.07m has become gabbronorite + gabbro, as Opx decreases to &lt;math&gt;\leq 10\%&lt;/math&gt; over last 3.90m of unit Unit, for the most part not pitted like gabbronorite usually is Numerous fractures, shear zones &amp; dikes; especially quartz Diorite, quartz vein's &amp; quartz feldspar veins Weak-moderate actinolite, tremolite (silver, platey...), minor K-spar, occasional blue, earthy alteration in some shears/ slip planes - Mn?, ie at 19.12-19.15m Fracture Zones: 21.43-21.61m Shear Zone with hematite, saussurite, epidote alteration (bleached over 0.5cm), as well, 35-40°, small 2cm diorite dike 23.47-23.85m Fractured, sheared rocks, low angles &lt;math&gt;&lt; 30^\circ&lt;/math&gt;, serpentine, black chlorite Very large zone from: 29.00-32.00m with intense talc, local serpentine, chlorite alteration - also faulted sheared... Only 1 small felsic dike, in bottom 10cm Faults at 29.10 - 29.30m - gouge, 40°; 30.49 - 30.65m - minor gouge - 40°, 31.00 -31.20m - gouge, chlorite, talc, 60° - very blocky core 31.20-32.00m</p>	2	2			005	14.91	18.00	3.09			0.07	<math>< 0.07</math>	<math>< 0.03</math>	----	----
			2	2			006	18.00	21.00	3.00			0.07	<math>< 0.07</math>	<math>< 0.03</math>	----	----	
			2	2			007	21.00	24.00	3.00			0.07	<math>< 0.07</math>	<math>< 0.03</math>	----	----	
			2	2			008	24.00	27.00	3.00			<math>< 0.07</math>	<math>< 0.07</math>	<math>< 0.03</math>	----	----	
			2	2			009	27.00	29.00	2.00			<math>< 0.07</math>	<math>< 0.07</math>	<math>< 0.03</math>	----	----	
			2	2			010	29.00	32.00	3.00			<math>< 0.07</math>	<math>< 0.07</math>	<math>< 0.03</math>	----	----	
			2	2			011	32.00	34.04	2.04			<math>< 0.07</math>	<math>< 0.07</math>	<math>< 0.03</math>	----	----	
			2	2			012	34.04	36.08	2.04			<math>< 0.07</math>	<math>< 0.07</math>	<math>< 0.03</math>	----	----	
			2	2			013	36.08	38.03	1.95			<math>< 0.07</math>	<math>< 0.07</math>	<math>< 0.03</math>	----	----	
			2	2			014	38.03	39.97	1.94			<math>< 0.07</math>	<math>< 0.07</math>	<math>< 0.03</math>	----	----	



# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE N. Roby/Baker HOLE # 00-204

LOGGED BY: **S. Burgess** SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
14.91	39.97	<b>GABBRONORITE (continued)</b> Dikes: 21.89 - 21.93m 85-90° Quartz Feldspar Vein 27.64 - 27.81m Quartz Vein, 40° 31.90 - 31.93m Quartz-Diorite, broken, blocky ~ 90° 15.28 - 15.31m Magnetic, mafic dike - <u>not</u> diabase, 40° 24.60 - 24.66m Same - green, black, fine grained, foliated - layered?? 60° Most joints... at 60°, less common at 40,50° 32.21 - 32.29m Fine grained gabbro (melanogabbro) with quartz vein uphole (3mm) QFV bottom contact, 60° 35.50 - 35.95m 10° shear, weak alteration 36.08m Two QFV's, one at 35°, one at 60° - rocks gabbro + gabbronorite below, 36.30 - 36.60m - 20° QFV, sinuous Gradational contact																
39.97	43.07	<b>GABBRO</b> Small, medium-coarse grained unit Dull greenish grey, weakly bleached - pale looking, over last 1m Plag 40-50%, Cpx 50-55%, Opx 0-5% Weak-moderate alteration: actinolite, pervasive K-spar - increases with depth minor saussurite, tremolite 41.90 - 42.03m Quartz Diorite Dike, contacts at 45° 85-90° Contact	3	2			015	39.97	43.07	3.10	nil		<0.07	<0.07	<0.03	----	----	



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LOGGED BY: **S. Burgess** SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
46.84	53.94	<b>MELANOGABBRONORITE</b> Medium grained Dark grey-brown-green Gabbronorite 46.84 - 48.45m, then melano-gabbronorite; from 52.5 - 53.94m Mix of melano-gabbronorite + melanogabbro - rocks green, moderate actinolite alteration, local talc Plag 25-40%, Cpx 60-80%, Opx 5-25% Non-magnetic Top 10cm fractured, broken; also 10-30° shear at 50-51° with associated talc alteration halo <p style="text-align: right;">Gradational contact</p>	2	2			018	46.84	48.45	1.61	nil		<0.07	<0.07	<0.03	-----	-----	
			2	2			019	48.45	51.20	2.75	nil		<0.07	<0.07	<0.03	-----	-----	
			2	2			020	51.20	53.95	2.75	nil		<0.07	<0.07	<0.03	-----	-----	
53.94	62.91	<b>GABBRONORITE</b> Mixture of >80% gabbronorite, 10% gabbro, 10% melano-gabbronorite + pyroxene Medium to coarse grained, relatively uniform, massive Dull grey-brown-green, black... mottled Plag 35-55%, Cpx 45-55%, Opx 5-20%, trace magnetite Weak-moderate actinolite, tremolite (patchy), K-spar & rare saussurite alteration Local talc, serpentine & esp black chlorite in shears: 56.26-56.62m Unit cut by numerous 1-7cm felsic dike, mostly QFV's, Quartz-diorite dikes at 40-70° <p style="text-align: right;">Sharp 50° contact</p>	2	2			021	53.95	57.00	3.05	nil		<0.07	<0.07	<0.03	-----	-----	
			2	2			022	57.00	60.00	3.00	nil		<0.07	<0.07	<0.03	-----	-----	
			2	2			023	60.00	62.91	2.91	nil		<0.07	<0.07	<0.03	-----	-----	



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North American Palladium Ltd.  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE N. Roby/Baker HOLE # 00-204

LOGGED BY: **S. Burgess**

SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup> Bx Matrix				SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
78.72	95.55		<p><b>VARITEXTURED GABBRO (continued)</b></p> <p>Unit may be broken down into various segments based on grain size as well as alteration</p> <p>Top 2/3 of unit dominated by actinolite, tremolite &amp; talc alteration, while bottom 1/3 dominated by saussurite +/- actinolite alteration (as Plag % increases)</p> <p>79.07 - 79.36m Quartz diorite dike, cut by intensely altered Plag vein</p> <p>Diorite dike, contacts at 80/90°, Plag vein, high angle small mafic dike at bottom contact (79.32-79.36m) dextrally offsets bottom contact</p> <p>Plag dike "flesh-tone" coloured - looks like barite, rocks for 50cm below dike foliated at 60° to CA</p> <p>84.87 - 85.91m Layered gabbro 1-3cm, 90° layers of fine-med &amp; coarse gabbro, weak-moderate altered (K-spar, actinolite, weak saussurite, tremolite)</p> <p>89.41 - 89.57m Intense shear, 40°, soft rocks, almost clay, chlorite, talc, serpentine, iddingsite &amp; calcite, thin Plag hairline, irregular almost laddermark stringers</p> <p>89.57 - 89.90m Moderate - intense talc alter'n &amp; local hornblende stringers</p> <p>90.00 - 95.55m Plag content gradually increase from 50 to &gt;60% saussurite alteration increases, talc decreases slowly, minor actinolite, rocks coarse to very coarse</p> <p>Unit has trace Py, no other sulfides</p> <p style="text-align: center;">Sharp irregular ~30-40° contact</p>															
			3	2			030	78.72	80.25	1.53	nil		<0.07	<0.07	<0.03	----	----	
			2	3			031	80.25	82.56	2.31	nil		0.14	<0.07	<0.03	----	----	
			2	3			032	82.56	84.87	2.31	nil		0.07	<0.07	<0.03	----	----	
			2	3			033	84.87	87.00	2.13	nil		<0.07	<0.07	<0.03	----	----	
			3	2			034	87.00	90.00	3.00	tr		<0.07	<0.07	<0.03	----	----	
			3	2			035	90.00	93.00	3.00	tr		<0.07	<0.07	<0.03	----	----	
			3	2			036	93.00	95.55	2.55	nil		<0.07	<0.07	<0.03	----	----	

# DIAMOND DRILL CORE LOGGING SHEETS

North American **Palladium Ltd.**  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE N. Roby/Baker HOLE # 00-204

LOGGED BY: **S. Burgess**

SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>m</sup>		SAMPLES						ASSAYS							
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
95.55	121.83	<b>WEBSTERITE</b> Large unit, cut by occasional felsic dikes & shears, local small (<1m) melano-gabbronorite, lenses, in places, unit gradational into/out of pyroxenite ie 107-109.5m Fine to medium grained Dark green/brown/black, unit weakly to moderately magnetic decreases with depth Plag <5-15%, Cpx 70-85%, Opx 10-25%, magnetite 0-5% 95.55 - 101.00m Several small quartz-diorite dikes, <1cm-10cm most at 40-50° Patchy magnetism, from weak to strong Unit ends in shear (80°) at contact with large felsic dike Quartz-biotite diorite dike 121.01-121.72m - almost gneissic/banded 80° contacts, white/black/brown Bottom contact at 70° to CA	2	3			037	95.55	97.30	1.75	tr Py		0.07	<0.07	<0.03	----	----	
			2	3			038	97.30	99.00	1.70	tr Py		<0.07	<0.07	<0.03	----	----	
			2	2			039	99.00	102.00	3.00	tr Py		0.07	<0.07	<0.03	----	----	
			2	2			040	102.00	105.00	3.00	tr Py		0.14	<0.07	<0.03	----	----	
			2	3			041	105.00	108.00	3.00	tr Py		0.14	<0.07	<0.03	----	----	
			2	3			042	108.00	111.00	3.00	tr Py		0.14	<0.07	<0.03	----	----	
			2	2			043	111.00	114.00	3.00	tr Py		0.14	<0.07	<0.03	----	----	
			2	2			044	114.00	116.55	2.55	tr Py		0.14	<0.07	<0.03	----	----	
			2	2			045	116.55	118.84	2.29	tr Py		0.14	<0.07	<0.03	----	----	
			2	2			046	118.84	121.83	2.99	nil		0.14	<0.07	<0.03	----	----	
121.83	125.82	<b>MELANOGABBRONORITE + WEBSTERITE</b> Mix of approx 70% of gabbronorite, 30% websterite Dark green, locally black, locally mottled with white/grey Plag medium grained to locally coarse-grained Plag <5-35%, Cpx 60-70%, Opx 10-20%, trace magnetite Plag highest in mid-unit, lower at each end Irregular, slightly elongated grains (especially Plag) throughout unit, no real P.D.O. though; relatively random orientations Weak-moderate actinolite, local tremolite, patchy saussurite + K-spar; occasional chlorite along contacts with dike 123.56 - 125.69m Diorite Dike, >70° contacts, sharp, medium-coarse grained Sharp, 85° contact	3	2			047	121.83	123.83	2.00	tr		0.07	<0.07	<0.03	----	----	
			3	2			048	123.83	125.82	1.99	tr		0.07	<0.07	<0.03	----	----	



# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.

LAC DES ILES MINES LTD.

PROPERTY LDI ZONE N. Roby/Baker HOLE # 00-204

LOGGED BY: S. Burgess SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
129.19	150.64		<p><b>MELANOGABBRONORITE (continued)</b></p> <p>130.83 - 130.89m Small fine grained melano-gabbronorite dike, almost pyroxene/websterite non-magnetic - no chill margins 70° Contacts</p> <p>142.50 - 144.00m Shear Zone - Rocks mostly websterite - chlorite, serpentine alteration, soapy feel; &lt;30° contacts, shears, occasional fine grained patches, less altered</p> <p>148.99-149.52m Small Breccia Zone - Dike swarm - diorite, quartz diorite have created a breccia, also shearing at 30, 50° 40° contacts top, 30° bottom</p> <p style="padding-left: 40px;">Very irregular bottom contact to unit, ~10°, contact over 35cm</p>															
150.64	161.68	<p><b>GABBRO/GABBRONORITE BRECCIA</b></p> <p>"Physical" breccia Unit 40% gabbro, medium grained equigranular, green/white 30% gabbronorite, medium grained, less equigranular, brown/grey/green &amp; 25% felsic dikes, from quartz feldspar veins to diorite Remaining 5% is occasional pyroxene lens, minor diabase and other "matrix" mottled, very much clast-dominated breccia (&gt;80%) Unit gabbro at top --&gt; gabbronorite by ~157m Many dikes cut unit at 50-60° to CA, occasional low angle dikes &amp; some 1-2cm dioritic dikes by fractures, hairline shears (each at 40-45°) Shears restricted to more mafic (ie Pxn) segments, shears at &gt;60°</p>	2	2	M	10	059	150.64	153.51	2.87	tr		0.07	<0.07	<0.03	----	----	
			2	2	M	10	060	153.51	156.00	2.49	tr		0.07	<0.07	<0.03	----	----	
			2	2	M	10	061	156.00	159.00	3.00	tr		0.07	<0.07	<0.03	----	----	
			2	2	M	10	062	159.00	161.68	2.68	tr		0.07	<0.07	<0.03	----	----	



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METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
150.64	161.68	<b>GABBRO/GABBRONORITE BRECCIA (continued)</b> Unit similar to shear/intrusive dike from: 125.82 - 129.19m Most felsic dikes/fragments... have moderate-strong saussurite alteration Moderate actinolite, tremolite alteration, local, patchy talc, serpentine, chlorite in shears (ie 158.00-158.20m) 70° Bottom contact																
161.68	284.01	<b>MELANOGABBRONORITE + WEBSTERITE + NORITE</b> Probably same unit as above "breccia" In places, unit is websterite, 1-10m Medium grained Dark brown/black/grey, minor green Plag <5-25%, Cpx 25-60%, Opx 25-60%, Magnetite 0-5% In places, unit is probably a norite, but alteration makes Cpx/Opx indistinguishable at times, norite does appear below 215.00m 161.68 - 184.25m Unit hue cut by numerous 1-15cm quartz diorite dikes from 25-55° to CA, most with saussurite alteration; occasional with biotite alteration, often chlorite, serpentine along contacts 162.66 - 162.79m Shear Zone, 70/60° contacts, quartz-hornblende-biotite diorite dike 162.66 - 162.75m, sheared websterite to 162.79m, serpentine, talc alteration Much of this unit has some degree of talc + serpentine alteration as most of the core has a soapy feel Moderate-locally strong tremolite, moderate actinolite Occasional chlorite, rare then altered, large (1cm) Plag crystals, patchy saussurite	1	3			063	161.68	163.41	1.73	tr		<0.07	<0.07	<0.03	----	----	
			1	3			064	163.41	165.00	1.59	tr		0.07	<0.07	<0.03	----	----	
			1	3			065	165.00	168.00	3.00	tr		0.14	<0.07	<0.03	----	----	
			1	3			066	168.00	171.00	3.00	tr		0.14	<0.07	<0.03	----	----	
			1	3			067	171.00	174.00	3.00	tr		0.14	<0.07	<0.03	----	----	
			1	3			068	174.00	177.00	3.00	tr		0.14	<0.07	<0.03	----	----	
			1	3			069	177.00	180.00	3.00	tr		0.14	<0.07	<0.03	----	----	
			1	3			070	180.00	186.00	6.00	tr		0.14	<0.07	<0.03	----	----	
			1	3			071	186.00	186.00	0.00	tr		0.07	<0.07	<0.03	----	----	
			1	3			072	186.00	189.00	3.00	tr		0.14	<0.07	<0.03	----	----	
			1	3			073	189.00	192.00	3.00	tr		0.14	<0.07	<0.03	----	----	
			1	3			074	192.00	195.00	3.00	tr		0.14	<0.07	<0.03	----	----	
			1	3			075	195.00	197.56	2.56	tr		0.14	<0.07	<0.03	----	----	

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METERAGE		DESCRIPTION	Alt <sup>n</sup> Bx Matrix				SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
161.68	284.01	<p><b>MELANOGABBRONORITE + WEBSTERITE + NORITE (continued)</b>                      Many of the quartz-biotite-diorite dikes have coarse biotite crystals where talc/serpentine strongest rocks are light green/black respectively - usually where serpentine strongest rocks are black with light green patches, "boundaries" to alteration zone - not always shear related                      "Regular" melanogabbronorite has pitted surface due to pref weathering of Opx                      Core ranges from weak to moderately magnetic                      Often - but not always - magnetism strongest where serpentine alteration present                      Still poor sulfide, barely even trace Py                      Occasional very low angle felsic veins, often with hornblende in contact alteration zones - always &lt;1cm total width                      Very minor crocidolite                      Shears: 207.23 - 210.28m Weak, healed, serpentine, chlorite, talc, magnetite, 40° contacts                      212.74 - 213.45m Same as above, less serpentine, magnetite, 60° top, 30° bottom                      217.22 - 217.75m As from 207.23 - 210.28m, green talc, chlorite, 40° top, 30° bottom                      * Some core missing from 217.75 --&gt;? Probably 10cm                      217.22 - 224.55m Felsic dike swarm, small dikes, quartz felsic vein, diorite..dikes, most &gt;50° - often with coarse biotite                      Unit becomes slightly more altered below 223.00m, increased serpentine, Magnetite, indistinct grain boundaries, darker coloured...                      Plag also K-spar altered                      Probably bronzite now</p>																
			2	3			076	197.56	199.23	1.67	tr		0.14	<0.07	<0.03	----	----	
			2	3			077	199.23	201.00	1.77	tr		0.14	<0.07	<0.03	----	----	
			2	3			078	201.00	204.00	3.00	tr		0.14	0.07	<0.03	----	----	
			2	3			079	204.00	207.33	3.33	tr		0.28	0.07	<0.03	----	----	
			2	3			080	207.33	210.28	2.95	tr		0.42	0.07	<0.03	----	----	
			2	3			081	210.28	212.74	2.46	tr		0.42	0.07	<0.03	----	----	
			2	3			082	212.74	215.51	2.77	tr		0.28	0.07	<0.03	----	----	
			2	3			083	215.51	217.22	1.71	tr		0.14	<0.07	<0.03	----	----	
			2	3			084	217.22	220.22	3.00	tr		0.14	<0.07	<0.03	----	----	
			2	3			085	220.22	222.00	1.78	tr		0.14	<0.07	<0.03	----	----	
			2	3			086	222.00	225.00	3.00	tr		0.14	<0.07	<0.03	----	----	
			2	3			087	225.00	228.00	3.00	tr		0.14	<0.07	<0.03	----	----	
			2	3			088	228.00	231.00	3.00	tr		0.14	<0.07	<0.03	----	----	
			2	3			089	231.00	234.00	3.00	tr		0.14	<0.07	<0.03	----	----	
			2	3			090	234.00	237.00	3.00	tr		0.14	<0.07	<0.03	----	----	
			2	3			091	237.00	239.33	2.33	tr		0.14	<0.07	<0.03	----	----	
			2	3			092	239.33	241.18	1.85	tr		0.49	<0.07	0.06	----	----	

# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE N. Roby/Baker HOLE # 00-204

LOGGED BY: **S. Burgess** SIGNATURE

45.00		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS							
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %	
161.68	284.01		<p><b>MELANOGABBRONORITE + WEBSTERITE + NORITE (continued)</b></p> <p>224.50m Alteration Zone - moderate-intense serpentine, tremolite, patchy moderate-local intense talc, chlorite, actinolite, fracture/shear related moderate saussurite, rare K-spar</p> <p>By 221.00m Unit now mixture of melanogabbronorite, norite to melanonorite and minor websterite, there are large alteration zones, usually shear related &amp; zoned, starting at 239.33m</p> <p>224.50 - 239.33m Broad Serpentine Alteration Zone - Minor, healed shears Minor saussurite, rare iddingsite +/- hematite Minor talc, moderate chlorite, rocks black, soapy, but relatively massive; not broken up...</p> <p>239.33 - 262.85m Large Alteration/Shear/Fault Zone(s)</p> <p>239.33 - 254.20m Unit broken by numerous felsic dikes, veins</p> <p>254.20 - 262.85m More intense alteration, more shears, faults Alteration increases with depth from moderate --&gt; intense Serpentine, talc, chlorite; moderate-strong tremolite, saussurite local K-spar, actinolite, minor magnetite, trace Py, usually assimilated with contacts of F-dikes</p> <p>Felsic Dikes: 239.33 - 249.00m, 35-50°, 249.00 - 254.20, 50-75° to CA, 248.55 - 250.91m Breccia dike with pyroxenite, websterite, diabase, diorite and smaller Breccia dike</p> <p>250.45 - 250.65m Small By dike, mostly melano-gabbronorite, websterite, porphy; felsic dike fragments Rare diabase, microgabbro "bands" at 60°</p> <p>Overall, alteration decreases slowly (below 258m) and the area outside alteration zone still quite altered</p> <p>Faults: 256.14 - 256.41m Crumbly, minor chlorite/serpentine gouge, 50° contacts; 257.74 - 25.25m As above, more blocky, &lt;30° contacts</p>																
			3	3			093	241.18	244.18	3.00	tr.25py	0.35	<0.07	0.06	-----	-----			
			3	3			094	244.18	246.36	2.18	tr.25py	1.75	0.28	0.33	-----	-----			
			2	3			095	246.36	248.55	2.19	tr.25py	0.63	<0.07	0.09	-----	-----			
			2	3			096	248.55	250.91	2.36	tr.25py	0.56	<0.07	0.06	-----	-----			
			2	3			097	250.91	253.23	2.32	tr.25py	0.56	<0.07	0.06	-----	-----			
			2	4			098	253.23	254.94	1.71	tr.25py	0.63	<0.07	0.09	-----	-----			
			2	4			099	254.94	256.84	1.90	tr.25py	0.84	0.14	0.03	-----	-----			
			2	4			100	256.84	258.74	1.90	tr.25py	0.91	0.14	0.06	-----	-----			
			2	4			101	258.74	260.80	2.06	tr.25py	0.14	<0.07	<0.03	-----	-----			
			2	4			102	260.80	262.85	2.05	tr.25py	0.14	<0.07	<0.03	-----	-----			

# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE N. Roby/Baker HOLE # 00-204

LOGGED BY: **S. Burgess** SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>				SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	NI %	Co %
161.68	284.01	<b>MELANOGABBRONORITE + WEBSTERITE + NORITE (continued)</b> Rocks intensely sheared (healed) between, above and below faults (254.20 - 262.85m) By 262.05m Unit now melanonorite + melano-gabbronorite relatively massive to 272.69m 272.69 - 284.01m Large Alteration Zone - Zoned, moderate-intense alteration, moderate-intense alteration Shear Zones - healed, start at 275.55 - 280.45m 275.74 - 275.82m Quartz Vein, epidote, saussuriteurite, chlorite alteration, 45° 279.19 - 279.30m Quartz Vein, Quartz Feldspar Vein, saussuriteurite, hornblende, saussuriteurite, talc alteration, 60° 280.09 - 280.49m Breccia Vein, minor Fault 280.09 - 280.19m Patchy alteration over last 2.5m, from moderate-intense, still serpentine on slick faces, trace Py, rocks still soapy  25° Contact	3	3			103	262.85	264.00	1.15	tr Py		0.14	<0.07	<0.03	----	----	
			2	3			104	264.00	267.00	3.00	tr Py		0.21	<0.07	<0.03	----	----	
			2	3			105	267.00	270.00	3.00	tr Py		0.21	<0.07	<0.03	----	----	
			2	4			106	270.00	272.69	2.69	tr Py		0.21	<0.07	<0.03	----	----	
			2	4			107	272.69	275.55	2.86	tr Py		0.14	<0.07	<0.03	----	----	
			2	4			108	275.55	277.70	2.15	tr Py		0.14	<0.07	<0.03	----	----	
			2	4			109	277.70	279.96	2.26	tr Py		0.14	<0.07	<0.03	----	----	
			2	3			110	279.96	282.00	2.04	tr Py		0.14	<0.07	<0.03	----	----	
			2	3			111	282.00	284.01	2.01	tr Py		0.14	<0.07	<0.03	----	----	
284.01	291.84		<b>NORITE</b> Medium grained Similar to above unit, borderline between norite, melanonorite Grey/brown... Relatively massive, weakly magnetic Plag 30-45%, Cpx 5-15%, Opx 40-60%, trace-1% magnetite Minor healed shears (30°) over last 2.5m Minor tremolite, actinolite, patchy K-spar (weak-moderate) Sharp 80° contact at diorite dike	2	2			112	284.01	286.62	2.61	nil	0.07	<0.07	<0.03	----	----	
		2		2			113	286.62	289.23	2.61	nil	<0.07	<0.07	<0.03	----	----		
		2		2			114	289.23	291.84	2.61	nil	0.07	<0.07	<0.03	----	----		





# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE N. Roby/Baker HOLE # 00-204

LOGGED BY: S. Burgess SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
313.93	351.98	<p><b>GABBRO</b></p> <p>Unit a mixture of: gabbro, magnetic gabbro and magnetite gabbro, over first 50m no real "banding" Medium grained Dull grey-green, locally, green/black Plag 20-50%, Cpx 50-85%, Opx 0-15%, magnetite 0-20% - local sections with 25-30% (&lt;10cm) &amp; occasional magnetite bands, 1-3cm, very rare Weak-moderate actinolite, K-spar alteration Patchy saussuritization, tremolite alteration, occasional serpentine in some slip planes</p> <p>316.78 - 318.00m Broken, blocky core, possible fault at 317.50m, black, magnetic, no gouge, chlorite alteration - low angle shears (10-30°)</p> <p>314.14 - 315.95m Felsic dike as from 308.61 - 310.25m - Tonalite + gabbro mixture, high angle, irregular contacts Opx content tough to quantify due to alteration and presence of magnetite There are some gabbro to possibly norite sections ie 325.59 - 327.26m (-), gradual bottom contact Gabbro, especially weakly to non-magnetic exhibits moderate to locally strong saussurite, epidote, K-spar alteration, occasional hornblende stringers</p> <p>332.23 - 334.00m Diabase + microgabbro dike - green, black, fine grained weakly mylonitic (50°); magnetic, irregular top contact, 60° bottom contact</p> <p>334.00 - 338.79m Very magnetic, weakly banded magnetite gabbro Below 338.79m Alternating light (gabbro) and dark sections No real contacts - of melanogabbro (+/- melanogabbro) and magnetite gabbro</p>	3	3			125	313.93	316.00	2.07	tr		<0.07	<0.07	<0.03	-----	-----	
							126	316.00	318.00	2.00	nil		<0.07	<0.07	<0.03	-----	-----	
							127	318.00	321.00	3.00	nil		<0.07	<0.07	<0.03	-----	-----	
							128	321.00	323.30	2.30	nil		<0.07	<0.07	<0.03	-----	-----	
							129	323.30	325.59	2.29	nil		<0.07	<0.07	<0.03	-----	-----	
							130	325.59	327.26	1.67	nil		<0.07	<0.07	<0.03	-----	-----	
							131	327.26	330.00	2.74	nil		<0.07	<0.07	<0.03	-----	-----	
							132	330.00	332.23	2.23	tr		0.07	<0.07	<0.03	-----	-----	
							133	332.23	334.00	1.77	tr		<0.07	<0.07	<0.03	-----	-----	
							134	334.00	336.40	2.40	tr		0.07	<0.07	<0.03	-----	-----	
							135	336.40	338.79	2.39	tr		0.14	<0.07	<0.03	-----	-----	
							136	338.79	341.86	3.07	tr		0.07	<0.07	<0.03	-----	-----	
							137	341.86	344.90	3.04	tr		<0.07	<0.07	<0.03	-----	-----	
							138	344.90	347.95	3.05	tr		<0.07	<0.07	<0.03	-----	-----	
						139	347.95	349.97	2.02	tr		0.07	<0.07	<0.03	-----	-----		
						140	349.97	351.98	2.01	tr		<0.07	<0.07	<0.03	-----	-----		

# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE N. Roby/Baker HOLE # 00-204

LOGGED BY: S. Burgess SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>m</sup>		SAMPLES						ASSAYS						
FROM	TO		Plag	Pxr	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %	
313.93	351.98	<b>GABBRO (continued)</b> 341.86 - 342.05m Series of magnetite pods, bands (1-3cm) Overall, unit has relatively few diorite/felsic dikes Opx gradually increases with depth - ends as gabbro and gabbronorite 350.11 - 350.33m Black, fine grained <u>diabase</u> dike, 60° contacts, weak magnetism  Gradational contact															
351.98	387.58		<b>GABBRONORITE + GABBRO</b> Similar to above unit <u>but</u> : more magnetite, more Opx, less Plag Unit borderline with magnetite melano-gabbronorite Medium grained Dark grey-green-black, minor brown Plag 5-40% (average 25-40%), Cpx 15-40%, Opx 5-30%, magnetite 5-30% Weak-moderate tremolite, K-spar, serpentine, talc; local, shear-related epidote, rare saussurite, minor chlorite Occasional 2-8cm magnetite enriched zones, fracture-related Very few felsic dikes, other than numerous fractures, minor shears Unit is quite massive Occasional weak fabric at 45-50°, patches with trace-0.5% pyrite, over 5-15cm; also occasional small quartz crystals in fracture infits - ie 375.60m	2	3	141	351.98	354.00	2.02	tr		0.14	<0.07	<0.03	----	----	
				2	3	142	354.00	357.00	3.00	tr		<0.07	<0.07	<0.03	----	----	
				2	3	143	357.00	360.00	3.00	tr		<0.07	<0.07	<0.03	----	----	
				2	3	144	360.00	363.00	3.00	tr		<0.07	<0.07	<0.03	----	----	
				2	3	145	363.00	366.00	3.00	tr		<0.07	<0.07	<0.03	----	----	
				2	3	146	366.00	368.90	2.90	tr		<0.07	<0.07	<0.03	----	----	
				2	3	147	368.90	372.00	3.10	tr		<0.07	<0.07	<0.03	----	----	
				2	3	148	372.00	375.00	3.00	tr		<0.07	<0.07	<0.03	----	----	
				2	3	149	375.00	378.00	3.00	tr		<0.07	<0.07	<0.03	----	----	
		2		3	150	378.00	380.69	2.69	tr		<0.07	<0.07	<0.03	----	----		
		2		3	151	380.69	383.15	2.46	tr		<0.07	<0.07	<0.03	----	----		
		2		3	152	383.15	385.17	2.02	tr		<0.07	<0.07	<0.03	----	----		
		2		3	153	385.17	387.58	2.41	tr		0.07	<0.07	<0.03	----	----		



# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.

LAC DES ILES MINES LTD.

PROPERTY LDI ZONE N. Roby/Baker HOLE # 00-204

LOGGED BY: S. Burgess

SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>		SAMPLES						ASSAYS							
FROM	TO		Plag	Pxt	Coml	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
351.98	387.58	<b>GABBRONORITE + GABBRO (continued)</b> Below 371.50m Unit gradually reverts back to gabbro and gabbronorite - less mafic 375.50 - 387.58m Much of this interval cut by numerous, healed shears - most 20-50°; occasional pyrite cubes 368.90 - 370.00m Fault Zone, blocky, ground core, minor gouge - serpentine, chlorite, >70° contacts 380.69 - 381.26m Diabase dike, black, magnetic, minor greenish lenses 65/90° contacts 381.26m End of unit numerous shears with hornblende, serpentine, healed  Gradational bottom contact																
387.58	415.80	<b>GABBRO, MAGNETIC</b> Not quite magnetite gabbro; although there are intervals of magnetite gabbro within larger unit Continuation of above unit, but less magnetite, much less Opx and more Plag: Plag 30-45%, Cpx 40-60%, Opx 0-15%, magnetite 5-20% - average 5-10% Dark green-grey-black to green/grey, mottled 387.58 - 406.50m Rocks locally broken up, blocky, mostly due to fractures ...possible small faultes at 390.00 - 390.13m; 392.70 - 392.80m; 398.00 - 398.15m Often epidote alteration for 20cm up-hole of fault Occasional serpentine/magnetite-rich zones associated with healed shears at 30-50° and less frequently 70° to CA	2	3			154	387.58	390.41	2.83	tr	nil	<0.07	<0.07	<0.03	-----	-----	
			2	3			155	390.41	393.00	2.59	tr	nil	<0.07	<0.07	<0.03	-----	-----	
			2	3			156	393.00	395.80	2.80	tr	nil	0.07	<0.07	<0.03	-----	-----	
			2	2			157	395.80	398.00	2.20	tr	nil	0.07	<0.07	<0.03	0.019	0.021	
			3	3			158	398.00	399.61	1.61	.25py	nil	<0.07	<0.07	<0.03	0.007	0.010	
			3	3			159	399.61	401.73	2.12	.50py	nil	<0.07	<0.07	<0.03	0.004	0.016	
			3	3			160	401.73	403.50	1.77	2%py	nil	<0.07	<0.07	<0.03	0.007	0.018	
			2	2			161	403.50	406.00	2.50	0.25	Py	<0.07	<0.07	<0.03	0.005	0.017	
			2	2			162	406.00	408.00	2.00	0.50	Py	0.14	<0.07	<0.03	0.025	0.033	
			2	2			163	408.00	410.49	2.49	1.00	Py	0.14	<0.07	<0.03	0.042	0.043	
			3	3			164	410.49	412.70	2.21	2.00	Py	0.07	<0.07	<0.03	0.053	0.030	
			2	3			165	412.70	414.61	1.91	1.00	nil	<0.07	<0.07	<0.03	0.017	0.026	
			2	2			166	414.61	415.80	1.19	0.25	nil	0.14	<0.07	<0.03	0.025	0.037	





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LAC DES ILES MINES LTD.

PROPERTY LDI ZONE N. Roby/Baker HOLE # 00-204

LOGGED BY: S. Burgess SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>				Bx Matrix					SAMPLES					ASSAYS				
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Pg	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %			
415.80	472.83	<b>MAGNETITE GABBRO (continued)</b> 436.30 - 436.55m Semi-massive magnetite, gradual into/out of , local to 3% pyrite +/- pyrrhotite, over 25cm 446.35 - 454.03m Magnetite gabbronorite lens, medium grained, dark brown, grey Plag 15-40%, Cpx 20-40%, Opx 30-40%, magnetite 5-15% Locally magnetite melanogabbronorite and possibly magnetite norite Moderate-intense tremolite alteration, patchy, weak-moderate K-spar, gradational top contact, sharp, 80° bottom contact Sharp drop in degree of magnetism at contact, as well as sharp decrease in Opx	2	2			181	449.23	451.88	2.65	nil		0.14	<0.07	<0.03	0.016	0.034				
			2	2			182	451.88	454.03	2.15	nil		0.14	<0.07	<0.03	0.022	0.041				
			2	2			183	454.03	456.00	1.97	nil		<0.07	<0.07	<0.03	0.004	0.009				
			2	2			184	456.00	459.00	3.00	nil		<0.07	<0.07	<0.03	0.007	0.021				
			2	2			185	459.00	462.00	3.00	nil		<0.07	<0.07	<0.03	0.007	0.018				
			2	2			186	462.00	465.00	3.00	nil		<0.07	<0.07	<0.03	0.003	0.016				
			2	2			187	465.00	468.00	3.00	tr		0.07	<0.07	<0.03	0.016	0.033				
			3	2			188	468.00	471.00	3.00	tr		0.14	<0.07	<0.03	0.022	0.042				
			2	2			189	471.00	472.83	1.83	.25 py		0.14	<0.07	<0.03	0.036	0.044				
472.83	505.24	<b>GABBRO, MAGNETIC</b> Medium grained Dull, light grey/green, mottled Plag 40-55%, Cpx 45-55%, Opx + magnetite 0-5% Weak-moderate actinolite, local saussurite, rare K-spar alteration (patchy) Occasional bands of semi-massive magnetite: 474.45 - 474.54m; 491.46 - 491.96m; 495.35 - 495.64m (around diabase dike); 496.17 - 496.76m and weak at 495.39 - 495.51m, often associated with epidote, saussurite, chlorite alteration, rarely with serpentine, usually 1-10% pyrite associated with magnetite "bands"	2	2			190	472.83	475.44	2.61	nil		<0.07	<0.07	<0.03	0.004	0.016				
			2	2			191	475.44	477.00	1.56	nil		<0.07	<0.07	<0.03	0.005	0.012				
			2	2			192	477.00	480.00	3.00	nil		<0.07	<0.07	<0.03	0.002	0.010				
			2	2			193	480.00	483.00	3.00	nil		<0.07	<0.07	<0.03	0.002	0.007				
			2	2			194	483.00	485.95	2.95	nil		<0.07	<0.07	<0.03	0.002	0.010				
			2	2			195	485.95	488.76	2.81	nil		<0.07	<0.07	<0.03	0.002	0.013				
			2	3			196	488.76	491.46	2.70	nil		0.07	<0.07	<0.03	0.010	0.022				
			2	2			197	491.46	494.07	2.61	tr Py		0.14	<0.07	<0.03	0.038	0.043				



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LAC DES ILES MINES LTD.

PROPERTY LDI ZONE N. Roby/Baker HOLE # 00-204

LOGGED BY: **S. Burgess** SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
505.24	551.73	<p><b>GABBRO</b></p> <p>Medium to locally coarse grained Dull grey-green, mottled, locally bleached alteration zones - 1-5m Plag average 40-55% (25-60%), Cpx 40-70%, Opx 0-15% Minor melanogabbro and rare melanogabbronorite lenses Opx present where alteration strongest, so grain boundaries destroyed - Opx content hard to qualify - ie 537-541m Unit has much higher epidote than previously in this hole, Also much more/larger felsic (granitic) dikes</p> <p>Granitic dikes: fine-medium grained, pink, orange-red 505.24 - 505.53m; 507.11 - 508.58m - sheared, foliated (40°); 511.73 - 511.97m; 512.39 - 512.62m; 512.73 - 512.87m locally with epidote, diabase and hornblende viens/dikes, except for last dike (512.73 - 512.87m at 30°), contacts are all 40-50°</p> <p>From 517m down - increased saussurite, epidote alteration and numerous small quartz veins</p> <p>536.00 - 547.01m Altered gabbro/gabbronorite, relict Opx, tremolite alteration, dark green - slightly coarser grained, moderate actinolite alteration</p> <p>547.01 - 549.53m Mix of gabbro, leucogabbro, coarse-very coarse grained, saussurite alteration and minor lenses/dikelets of pinkish fine grained tonalite "bands" at 70-80° to CA</p> <p>549.53 - 550.12m Coarse grained gabbro, then medium grained gabbro 550.12 --&gt; 551.73m</p> <p style="text-align: right;">Gradational contact</p>	3	2			203	505.24	507.11	1.87	nil		<0.07	<0.07	<0.03	----	----	
			3	2			204	507.11	510.00	2.89	tr		<0.07	<0.07	<0.03	----	----	
			2	2			205	510.00	512.86	2.86	.25py		<0.07	<0.07	<0.03	----	----	
			3	2			206	512.86	515.97	3.11	nil		<0.07	<0.07	<0.03	----	----	
			2	2			207	515.97	519.00	3.03	nil		0.07	<0.07	<0.03	----	----	
			3	2			208	519.00	522.00	3.00	nil		0.07	<0.07	<0.03	----	----	
							209	522.00	523.50	1.50	nil		0.07	<0.07	<0.03	----	----	
							210	523.50	525.31	1.81	nil		0.07	<0.07	<0.03	----	----	
			3	2			211	525.31	527.72	2.41	nil		0.07	<0.07	<0.03	----	----	
			3	3			212	527.72	530.72	3.00	nil		0.14	<0.07	<0.03	----	----	
			2	2			213	530.72	533.02	2.30	nil		0.14	<0.07	<0.03	----	----	
			3	3			214	533.02	536.00	2.98	nil		0.14	<0.07	<0.03	----	----	
			2	3			215	536.00	539.00	3.00	nil		0.21	<0.07	<0.03	----	----	
			2	3			216	539.00	542.00	3.00	nil		0.14	<0.07	<0.03	----	----	
			2	3			217	542.00	544.60	2.60	nil		0.21	<0.07	<0.03	----	----	
			2	3			218	544.60	547.21	2.61	nil		0.21	<0.07	<0.03	----	----	
			3	2			219	547.21	549.53	2.32	nil		0.28	<0.07	<0.03	----	----	
			2	2			220	549.53	551.73	2.20	nil		0.21	<0.07	<0.03	----	----	

# DIAMOND DRILL CORE LOGGING SHEETS

North American **Palladium Ltd.**  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE N. Roby/Baker HOLE # 00-204

LOGGED BY: S. Burgess SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>3</sup> Bx Matrix				SAMPLES					ASSAYS						
FROM	TO		Plag	Pxt	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	NI %	Co %
551.73	556.73		<b>MELANOGABBRO + GABBRO</b> Mixture of "interlayered" gabbro (35%) and melanogabbro 65% Medium to locally coarse grained Dull grey/green to dark green - mottled Plag 20-50%, Cpx 50-75%, Opx 0-5%, 0-1% magnetite Weak-moderate actinolite alteration, minor tremolite, occasional chlorite, talc, serpentine along shears Weak-moderate, patchy K-spar, epidote, saussurite Plag increases with depth Spotty magnetism, increases with depth  Gradational contact	2	2			221	551.73	554.25	2.52	nil		0.07	<0.07	<0.03	----	----
			2	2			222	554.25	556.77	2.52	nil		<0.07	<0.07	<0.03	----	----	
556.73	572.81	<b>GABBRO</b> Unit a mixture of gabbro, melanogabbro and altered gabbro Green/grey, mottled Medium to coarse grained Probably, the above melanogabbro... is part of this unit Plag 30-55%, Cpx 45-65%, Opx and magnetite 0-5% Alteration weak-local actinolite, K-spar, epidote, tremolite, saussurite - minor chlorite, talc, serpentine along fractures, shears Unit broken up by series of 1-3m, bleached alteration/shear zones: 559.00 - 559.59m - Alteration zone, shear bounded-40°, actinolite, sausserite, epidote Patchy, broad alteration zones to end of unit Magnetite increases downhole	2	2			223	556.77	559.00	2.23	nil		<0.07	<0.07	<0.03	----	----	
			2	2			224	559.00	561.28	2.28	tr		<0.07	<0.07	<0.03	----	----	

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North American Palladium Ltd.  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE N. Roby/Baker HOLE # 00-204

LOGGED BY: S. Burgess SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS					
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %
556.73	572.81	<b>GABBRO (continued)</b> 562.12 - 562.21m Quartz Vein - 45°, barren, epidote at contacts 563.51 - 563.74m Coarse to very coarse grained gabbro - almost varitextured gabbro K-spar alteration increases with depth 565.30 - 572.81m Numerous small, 2-5cm, high angle felsic dikes, from tonalite --> diorite Pyrite begins to appear, as fine grained, disseminated crystals below 559.00m - coarser, but scarcer cubes below 564m Gradational contact	3	2			225	561.28	563.74	2.46	tr		0.07	<0.07	<0.03	----	----
			2	2			226	563.74	566.40	2.66	.25py		<0.07	<0.07	<0.03	----	----
			2	2			227	566.40	568.98	2.58	.25py		<0.07	<0.07	<0.03	----	----
			3	2			228	568.98	570.90	1.92	tr		<0.07	<0.07	<0.03	----	----
			3	3			229	570.90	572.81	1.91	tr		0.07	<0.07	<0.03	----	----
572.81	576.84	<b>MAGNETITE GABBRO</b> Medium grained, moderate fabric/banding...at >70° Grey-green, mottled, still moderate actinolite alteration Plag 45-50%, Cpx 35-50%, magnetite 2-10%, trace magnetite, no sulfide Weak-locally weak/moderate K-spar, actinolite, rare epidote Gradational contact	2	2			230	572.81	574.82	2.01			<0.07	<0.07	<0.03	----	----
			2	2			231	574.82	576.84	2.02				<0.07	<0.07	<0.03	----
576.84	607.90	<b>MAGNETITE MELANOGABBRO</b> Mixture of magnetite melanogabbro, magnetite gabbro and occasional magnetite melano-gabbronorite lenses Again, Opx vs Cpx hard due to alteration Occasional equant, relict, black Opx, often a blurred green, indistinct, altered jumble with indistinct grain boundaries Still moderate actinolite alteration and epidote Medium to locally medium-coarse grained Occasional almost porphyritic to poikiloblastic texture in melanocratic, very magnetic sections - ie. ~586 - 590m	2	2			232	576.84	579.52	2.68	nil		0.21	<0.07	<0.03	----	----
			2	2			233	579.52	581.56	2.04	nil		0.07	<0.07	<0.03	----	----
			2	2			234	581.56	584.19	2.63	nil		<0.07	<0.07	<0.03	----	----
			2	2			235	584.19	586.43	2.24			<0.07	<0.07	<0.03	----	----
			2	2			236	586.43	588.00	1.57			<0.07	<0.07	<0.03	----	----
						237	588.00	591.00	3.00			<0.07	<0.07	<0.03	----	----	







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North American Palladium Ltd.  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE N. Roby/Baker HOLE # 00-204

LOGGED BY: S. Burgess SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup> Bx Matrix				SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
641.20	658.50	<b>GABBRO, ALTERED (continued)</b> 647.22 - 654.58m Altered gabbro with Felsic dike swarm, most dikes at 30-50°, smaller Plag veins at 60° 654.58 - 657.18m Intensely bleached zone - light pink/cream colour, rocks broken, blocky 656.15 - 656.74m Fault Zone, clay minerals, epidote, chlorite, talc, no real healed shears... Fault, shears at ~30° Unit ends in 45° epidote band quartz vein	3	3			256	641.20	643.75	2.55	tr		<0.07	<0.07	<0.03	-----	-----	
			3	3			257	643.75	646.53	2.78	tr		<0.07	<0.07	<0.03	-----	-----	
			3	3			258	646.53	649.35	2.82	nil		<0.07	<0.07	<0.03	-----	-----	
			3	3			259	649.35	652.13	2.78	nil		<0.07	<0.07	<0.03	-----	-----	
			3	3			260	652.13	654.58	2.45	nil		<0.07	<0.07	<0.03	-----	-----	
			4	2			261	654.58	657.18	2.60	tr		<0.07	<0.07	<0.03	-----	-----	
			3	3			262	657.18	658.50	1.32	nil		<0.07	<0.07	<0.03	-----	-----	
658.50	768.80	<b>GABBRO</b> As above alteration zone, for first 25m, then becomes more altered and pyrite appears with regularity Medium to locally medium to coarse grained Light green-grey, mottled - locally with cream, and/or purplish tinge Weak-locally moderate/strong saussurite, K-spar, epidote present along healed fractures, shears, in veins and rarely as medium to coarse crystals aggregates Weak to moderate, locally strong actinolite, rare tremolite, minor chlorite, talc and serpentine along slip planes Plag: 40-60%, Cpx 40-60%, trace magnetite, trace Opx Where present, Opx appears almost within Cpx in single xenoliths Unit broken by occasional diabase dikes, but very few felsic dikes Unit also very massive, competent, very few natural breaks in the core	2	2			263	658.50	660.00	1.50	tr		<0.07	<0.07	<0.03	0.010	0.004	
			2	3			264	660.00	663.00	3.00	tr		<0.07	<0.07	<0.03	0.007	0.004	
			2	3			265	663.00	666.00	3.00	tr		<0.07	<0.07	<0.03	0.006	0.005	
			2	3			266	666.00	669.00	3.00	tr		<0.07	<0.07	<0.03	0.007	0.006	
			3	3			267	669.00	671.90	2.90	tr		<0.07	<0.07	<0.03	0.007	0.005	
							268	671.90	675.27	3.37	tr		<0.07	<0.07	<0.03	0.003	0.001	
			2	2			269	675.27	678.00	2.73	0.25		<0.07	<0.07	<0.03	0.004	0.005	
			2	3			270	678.00	681.00	3.00	0.25		<0.07	<0.07	<0.03	0.007	0.005	
			2	3			271	681.00	684.00	3.00	0.25		<0.07	<0.07	<0.03	0.008	0.006	
			2	3			272	684.00	687.00	3.00	0.25		<0.07	<0.07	<0.03	0.007	0.006	
			3	3			273	687.00	690.00	3.00	0.25		<0.07	<0.07	<0.03	0.007	0.005	
			3	3			274	690.00	693.00	3.00	0.25		<0.07	<0.07	<0.03	0.006	0.005	
			3	3			275	693.00	696.00	3.00	0.25		<0.07	<0.07	<0.03	0.008	0.006	
			2	3			276	696.00	699.00	3.00	0.25		<0.07	<0.07	<0.03	0.006	0.005	
			2	2			277	699.00	702.00	3.00	tr		<0.07	<0.07	<0.03	0.007	0.006	
			2	2			278	702.00	704.10	2.10	tr		<0.07	<0.07	<0.03	0.007	0.005	

# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE N. Roby/Baker HOLE # 00-204

LOGGED BY: S. Burgess SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
658.50	768.80	<b>GABBRO (continued)</b>																
		671.90 - 675.27m Diabase, fine grained black, magnetic, trace to 1% pyrite in stringers, weak chill margins - broad, epidote alteration	2	3			279	704.10	707.07	2.97	0.25		<0.07	<0.07	<0.03	0.007	0.004	
		679.45 - 679.60m Quartz-biotite-hornblende-diorite, 70° contacts, weak epidote, hematite? Alteration	2	2			280	707.07	709.00	1.93	0.25		<0.07	<0.07	<0.03	0.006	0.005	
		685.85 - 685.94m; 686.12 - 686.46m Small diabase dike, green/black fine grained weak magnetism 60/60°, 60/40° contacts	2	3			281	709.00	711.00	2.00	0.25		<0.07	<0.07	<0.03	0.006	0.005	
		675.27m and below - local patchy weak bleaching, usually shear-related - both uphole and downhole from shears	2	3			282	711.00	714.00	3.00	0.50		<0.07	<0.07	<0.03	0.006	0.005	
		Pyrite +/- trace pyrrhotite more pronounced in more melanocratic lenses and also just below diabase dikes (from 1 to 2m)	2	3			283	714.00	717.00	3.00	0.50		<0.07	<0.07	<0.03	0.006	0.005	
		704.10 - 705.40m Diabase dike swarm - fine grained - green-black to brown-black, weak chill margins, magnetite - magnetic, 1-2% pyrite, especially near contacts	3	3			284	717.00	720.00	3.00	0.50		<0.07	<0.07	<0.03	0.006	0.006	
		706.67 - 707.07m Shear, mylonitic zone with diabase dike (706.80 - 707.02m) - rocks swirled, wavy, sinuous fabric, epidote, talc, chlorite alteration	2	3			285	720.00	723.00	3.00	0.50		<0.07	<0.07	<0.03	0.007	0.006	
		40° top, 65° bottom contact for zone	3	3			286	723.00	726.00	3.00	0.25		<0.07	<0.07	<0.03	0.006	0.006	
		718.64-->723.25m Relatively plain gabbro, 50% Plag, 50% Cpx, relatively unaltered (minor K-spar, actinolite), still trace pyrite	2	2			287	726.00	729.00	3.00	0.25		<0.07	<0.07	<0.03	0.006	0.005	
		723.25 - down - Back to altered, locally with fabric, now 50-60°, minor weak almost crenulated zones, with wavy fabric...	3	3			288	729.00	732.00	3.00	0.25		<0.07	<0.07	<0.03	0.006	0.006	
		Pyrite content increasing again	2	2			289	732.00	735.00	3.00	0.50		<0.07	<0.07	<0.03	0.006	0.005	
		737.78 - 738.06m Small fine grained melanogabbro "flow" or dike, of breccia matrix, but just small dike - sharp contacts, no chills	2	3			290	735.00	738.06	3.06	0.50		<0.07	<0.07	<0.03	0.006	0.006	
		741.04 - 741.88m Varitextured Gabbro - dike with 0.5-1.0% pyrrhotite, Cpy, pyrite, coarse grained, weak to moderate saussurite, K-spar, actinolite alteration, coarse grained sulfide Gradational contacts	2	2			291	738.06	741.04	2.98	0.25		<0.07	<0.07	<0.03	0.005	0.005	
			2	2			292	741.04	742.04	1.00	0.75	1:2	0.98	0.14	<0.03	0.009	0.008	
			3	2			293	742.04	744.00	1.96	0.25		<0.07	<0.07	<0.03	0.006	0.006	
			2	2			294	744.00	747.00	3.00	0.25		<0.07	<0.07	<0.03	0.007	0.006	
			2	2			295	747.00	750.00	3.00	0.25		0.07	<0.07	0.12	0.007	0.005	
			2	2			296	750.00	753.00	3.00	0.25		<0.07	<0.07	<0.03	0.005	0.004	
			2	2			297	753.00	756.00	3.00	0.25		<0.07	<0.07	<0.03	0.007	0.005	
			2	2			298	756.00	759.00	3.00	0.25		<0.07	<0.07	<0.03	0.007	0.005	
			3	2			299	759.00	762.00	3.00	0.25		<0.07	<0.07	<0.03	0.006	0.005	
			2	2			300	762.00	765.00	3.00	0.25		<0.07	<0.07	<0.03	0.007	0.005	
			3	2			301	765.00	766.90	1.90	0.25		<0.07	<0.07	<0.03	0.008	0.005	
			3	2			302	766.90	768.80	1.90	0.25		<0.07	<0.07	<0.03	0.007	0.004	

# DIAMOND DRILL CORE LOGGING SHEETS

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LAC DES ILES MINES LTD.

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LOGGED BY: S. Burgess SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS							
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %	
658.50	768.80	<b>GABBRO (continued)</b> 742.00 - 748.00m Series of small, 30° shears, most healed with combination of Plag, chlorite, local epidote 760.73 - 761.79m Series of healed, 60° shears with biotite alteration (brown), minor ground chlorite, epidote, quartz vein with epidote at 761.55 - 761.73m Irregular contacts, low angle Below 762.00 - 768.80m Plag content increases to >60% Rocks have pervasive weak to moderate K-spar alteration Not quite leucogabbro, medium grained, equigranular, trace pyrite 767.11 - 767.28m Diabase dike, fine grained, black, magnetic, trace pyrite Minor Plag dikeing over last 50cm, often with pyrite associated with dikes Sharp contact at 45° - end of "East Gabbro"																	
768.80	773.16	<b>MELANOGABBRO</b> Medium grained, locally coarse, weak varitexturing Dark green, locally mottled Plag 70-30%, Cpx 70-85%, Po; Cpy; Py, trace to 1%, average ~0.5% Moderate actinolite alteration, local talc, local intense epidote alteration zones along shears...trace serpentine, chlorite, talc along shears, slip planes Sheared contact at 35°	2	3			303	768.80	771.00	2.20	0.50	1:1	0.14	<0.07	<0.03	0.013	0.010		
			2	3			304	771.00	773.16	2.16	0.50	1:1	0.07	<0.07	<0.03	0.007	0.009		













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METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES							ASSAYS				
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Pd	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
883.58	915.27	<b>GABBRO, ALTERED</b> Medium to locally coarse grained Mildly bleached Light cream/pink to grey-green, mottled Local stringers. of dull beige/grey clay minerals, at all angles Plag 45-60%, Cpx 40-55%, trace magnetite, trace Opx Moderate to locally intense hematite, saussurite, rare, patchy epidote - as shear infills, very rare coarse crystals, almost no K-spar Weak to moderate actinolite, local talc, chlorite, serpentine Hematite alteration strongest at U.C., weakens gradually, to approximately 888m Hematite picks up again below 895.65m Occasional felsic dikes (Plag veins, quartz feldspar veins, quartz diorite..) with minor alteration haloes of saussurite +/- hematite and less frequently minor epidote and chlorite/talc Intense alteration zone +... 894.93 - 909.62m - Very similar to top 2.5m fo this unit, moderate to intense hematite, saussurite; local talc, chlorite, serpentine 898.11 - 908.36m Intrusive Dike - Grey-brown, cf diabase; fine grained very hard, sharp contacts, no chill margins Top 61cm intensely altered, faulted (898.11 - 898.72m) Top contact at 55°, bottom 55°, pyritic (alteration zone continued) Faults: 811.26 - 811.72m Intense alteration, mud; chlorite, hematite, iddingsite ~10-30° contacts Small intrusive dike - same as above, from: 904.80 - 905.14m Top contact (fault) at 60°, bottom at 10° (over 25cm) Alteration decreases slowly over last 6m of unit; end at weak, healed shear, at 50° Sharp, 50° contact	3	3			349	883.58	885.58	2.00	tr		<0.07	<0.07	<0.03	0.007	0.006	
							350	885.58	888.00	2.42	tr		<0.07	<0.07	<0.03	0.007	0.006	
							351	888.00	891.00	3.00	tr		<0.07	<0.07	<0.03	0.032	0.007	
							352	891.00	894.00	3.00	tr		<0.07	<0.07	<0.03	0.003	0.007	
							353	894.00	896.05	2.05	tr		<0.07	<0.07	<0.03	0.006	0.007	
							354	896.05	898.11	2.06	tr		<0.07	<0.07	<0.03	0.005	0.007	
							355	898.11	900.72	2.61	tr		<0.07	<0.07	<0.03	0.007	0.008	
							356	900.72	903.56	2.84	tr		<0.07	<0.07	<0.03	0.011	0.008	
							357	903.56	905.94	2.38	tr		<0.07	<0.07	<0.03	0.003	0.013	
							358	905.94	908.56	2.62	tr		<0.07	<0.07	<0.03	0.002	0.012	
							359	908.56	909.62	1.06	50 py		<0.07	<0.07	<0.03	0.000	0.011	
							360	909.62	912.44	2.82	tr		<0.07	<0.07	<0.03	0.001	0.012	
							361	912.44	915.27	2.83	tr		<0.07	<0.07	<0.03	0.002	0.011	

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METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES						ASSAYS					
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	NI %	Co %
915.27	996.00	<p><b>GABBRO</b></p> <p>Unit very similar to "east gabbro" Medium grained, locally equigranular Light green/grey, mottled Plag variable 30-60, average 40-50%, Cpx 40-50%, Opx 0-5%, magnetite 0-10%, average 0-5% Locally, small magnetite gabbro sections, to 3.5m and smaller melanogabbro lenses Local small scale, alteration zones - less than 3m, most clearly shear-related</p> <p>From 915.60m downwards, unit is magnetic, from very weak to weak/ moderate</p> <p>930.71 - 934.52m Magnetite Gabbro, Alteration - mix of very altered gabbro magnetic to quartz-epidote vein (shear) at 40°, and magnetite gabbro to magnetite melanogabbro</p> <p>Numerous small alteration zones with associated shearing and almost dendritic veining with Plag, clay minerals +/- hornblende Alteration: saussurite, local epidote, actinolite, local talc, chlorite, and hematite</p> <p>By 958.75m Magnetism dies out - very patchy to end of hole</p> <p>960.00 - 979.63m Series of alteration zones, shears (healed with Plag...) and melanogabbro lenses; locally, almost a varitextured gabbro - ie. 968.93 - 972.00m</p> <p>Rocks also have a weak to moderate fabric, from 950.00m to end of hole, fabric at ~50°</p> <p>K-spar alteration appears again in this unit - from about 927m to end of hole</p>	2	2			362	915.27	918.00	2.73	tr Py		<0.07	<0.07	<0.03	0.002	0.010	
			2	2			363	918.00	921.00	3.00	tr Py		<0.07	<0.07	<0.03	0.004	0.010	
			3	2			364	921.00	924.00	3.00	tr Py		0.07	<0.07	<0.03	0.016	0.016	
			2	2			365	924.00	927.00	3.00	tr Py		0.07	<0.07	<0.03	0.018	0.018	
			2	2			366	927.00	929.00	2.00	tr Py		0.07	<0.07	<0.03	0.032	0.023	
			2	2			367	929.00	930.71	1.71	tr Py		0.07	<0.07	<0.03	0.026	0.030	
			2	2			368	930.71	932.71	2.00			<0.07	<0.07	<0.03	0.073	0.054	
			2	2			369	932.71	934.52	1.81			0.14	<0.07	<0.03	0.058	0.026	
			2	2			370	934.52	936.00	1.48			0.07	<0.07	<0.03	0.010	0.010	
			2	2			371	936.00	939.00	3.00	tr Py		0.07	<0.07	<0.03	0.010	0.008	
			2	2			372	939.00	942.00	3.00			0.07	<0.07	<0.03	0.009	0.009	
			2	2			373	942.00	945.00	3.00			0.07	<0.07	<0.03	0.008	0.012	
			2	2			374	945.00	948.00	3.00	tr Py		0.07	<0.07	<0.03	0.005	0.012	
			3	2			375	948.00	951.00	3.00	tr Py		0.14	<0.07	<0.03	0.005	0.012	
			2	2			376	951.00	954.00	3.00	tr Py		0.14	<0.07	<0.03	0.005	0.012	
			2	2			377	954.00	957.01	3.01	tr Py		0.14	<0.07	<0.03	0.006	0.010	
			2	2			378	957.01	960.00	2.99	tr Py		0.14	<0.07	<0.03	0.004	0.011	
			3	2			379	960.00	963.00	3.00	tr Py		0.21	<0.07	<0.03	0.004	0.012	
			2	2			380	963.00	966.00	3.00	tr Py		0.14	<0.07	<0.03	0.007	0.013	
			2	2			381	966.00	969.00	3.00	tr Py		0.21	<0.07	<0.03	0.005	0.014	
		2	2			382	969.00	972.00	3.00	tr Py		<0.07	<0.07	<0.03	0.008	0.013		
		2	2			383	972.00	975.00	3.00	tr Py		<0.07	<0.07	<0.03	0.010	0.005		
		2	2			384	975.00	978.00	3.00	tr Py		<0.07	<0.07	<0.03	0.009	0.004		
		2	2			385	978.00	981.00	3.00	tr Py		<0.07	<0.07	<0.03	0.010	0.004		
		2	2			386	981.00	984.00	3.00	tr Py		<0.07	<0.07	<0.03	0.011	0.005		
		2	2			387	984.00	987.00	3.00	tr Py		<0.07	<0.07	<0.03	0.011	0.004		
		2	3			388	987.00	990.00	3.00	tr Py		<0.07	<0.07	<0.03	0.007	0.005		
		2	2			389	990.00	993.00	3.00	tr Py		<0.07	<0.07	<0.03	0.007	0.005		
		2	2			390	993.00	996.00	3.00	tr Py		<0.07	<0.07	<0.03	0.007	0.005		



## DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.

LAC DES ILES MINES LTD.

PROPERTY LDI ZONE N. Roby/Baker HOLE # 00-204

LOGGED BY: B. Nelson		SIGNATURE		PROPERTY LDI ZONE N. Roby/Baker							HOLE # 00-204							
METERAGE		DESCRIPTION	Bx Matrix				SAMPLES					ASSAYS						
FROM	TO		Alt <sup>n</sup>	Plag	Pxr	Coml	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %
996.00	1052.40	<b>GABBRO/EAST GABBRO (continued)</b>  Medium grained, grey-green, relatively equigranular, not magnetic and locally moderately foliated at 60° to core axis, local moderate to strong epidote, local minor creamy-white Plag rich veinlets, and very local minor grey Quartz stringers and veinlets, very locally moderately sheared over 10 to 20cm at 60° to core axis, not sure if unit should be classified as Gabbro or East Gabbro, generally section is more altered than normal East Gabbro and alteration appears to increase down-hole. Cpx 40 to 50% Plag 50 to 60% Predominantly moderate to locally strong alteration of clinopyroxene to actinolite. Predominantly moderate to locally strong alteration of Plag, locally strongly saussuritized. Overall trace fine grained disseminated Pyrite, very local coarse grained blebby Pyrite. Sharp contact at 1052.40m at 35° to core axis. 1025.50m - 1025.80m: Mafic/Intermediate Dike/Microgabbro- Fine grained, grey, hard, not magnetic, minor fine grained disseminated pyrite. Sharp upper and lower contacts at low angles to core axis. 1027.75m - 1028.60m: Mafic/Intermediate Dike/Microgabbro Fine grained, green-grey, hard, not magnetic, trace fine grained disseminated Pyrite. Sharp, irregular low angle contacts. At 1031.30m: Narrow Shear Zone, 10cm wide, shearing at 80 ° to core axis.	2	2			391	996.00	999.00	3.00	tr		0.03	0.01	0.01	0.013	0.015	0.004
			2	2			392	999.00	1002.00	3.00	tr		0.09	0.02	0.01	0.013	0.015	0.003
			2	2			393	1002.00	1005.00	3.00	tr		0.03	0.01	0.00	0.008	0.014	0.004
			2	2			394	1005.00	1008.00	3.00	tr		0.02	0.01	0.00	0.007	0.014	0.005
			2	2			395	1008.00	1011.00	3.00	tr		0.02	0.01	0.00	0.006	0.012	0.004
			2	2			396	1011.00	1014.00	3.00	tr		0.02	0.00	0.00	0.005	0.012	0.004
			2	2			397	1014.00	1017.00	3.00	tr		0.02	0.00	0.00	0.005	0.012	0.004
			2	3			398	1017.00	1020.00	3.00	tr		0.02	0.00	0.00	0.006	0.013	0.004
			2	3			399	1020.00	1023.00	3.00	tr		0.02	0.00	0.00	0.006	0.013	0.004
			2	3			400	1023.00	1026.00	3.00	tr		0.01	0.00	0.00	0.006	0.013	0.004
			2	2			401	1026.00	1029.00	3.00	tr		0.01	0.00	0.00	0.008	0.012	0.004
			2	2			402	1029.00	1032.00	3.00	tr		0.02	0.00	0.00	0.005	0.011	0.004
			2	2			403	1032.00	1035.00	3.00	tr		0.01	0.00	0.00	0.005	0.011	0.004
			2	2			404	1035.00	1038.00	3.00	tr		0.01	0.00	0.00	0.004	0.008	0.003
			2	2			405	1038.00	1038.00	3.00	tr		0.01	0.00	0.00	0.004	0.008	0.003
			2	2			406	1038.00	1041.00	3.00	tr		0.02	0.00	0.00	0.005	0.011	0.004
			2	3			407	1041.00	1044.00	3.00	tr		0.02	0.00	0.00	0.005	0.011	0.004
			2	2			408	1044.00	1047.00	3.00	tr		0.02	0.00	0.00	0.005	0.010	0.003
			2	2			409	1047.00	1050.00	3.00	tr		0.04	0.01	0.00	0.013	0.013	0.004
			2	2			409	1050.00	1052.40	2.40	tr		0.02	0.01	0.00	0.010	0.012	0.004

# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE N. Roby/Baker HOLE # 00-204

LOGGED BY: B. Nelson SIGNATURE

METERAGE		DESCRIPTION	SAMPLES							ASSAYS									
FROM	TO		Alt <sup>n</sup>	Bx Matrix				No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
			Plag	Pxr	Com	Prop													
996.00	1052.40	<b>GABBRO/EAST GABBRO (continued)</b>  At 1037.25m: Sheared feldspar porphyritic Intermediate dike, shearing at ~90° to core axis. At 1046.10m: Sheared Plag, rich dikelet, shearing at ~90° to core axis. 1046.40m - 1046.70m: Sheared Plag rich dike, shearing at ~90° to core axis. 1049.20m - 1049.40m: Sheared Gabbro plus moderate brittle fracturing, strong parallel epidote-Plag veining at 30° to 40° to core axis, moderate orangy-rusty staining-hematite?																	
1052.40	1081.20	<b>LATE MAFIC DIKE</b>  Composed of 70% very fine grained to fine grained Late Mafic dikes and 30% 1cm to 1.5m scale medium grained gabbroic xenoliths, the late mafic dikes are fine grained to very fine grained, dark grey to black, hard and vary from non-magnetic to moderately magnetic, contacts between dikes and gabbro fragments are very sharp and irregular, trace to minor fine grained disseminated to fine stringer Pyrite within dikes, local moderate grey Quartz veinlets oriented at various degrees to core axis, locally Plag porphyritic, locally moderately banded at 70° to core axis, overall moderate to locally strong erratic Plag rich stringers, veinlets and veins.																	
								410	1052.40	1054.00	1.60	tr		0.00	0.00	0.00	0.009	0.007	0.004
								411	1054.00	1056.00	2.00	tr		0.00	0.00	0.00	0.005	0.006	0.004
								412	1056.00	1059.00	3.00	tr		0.02	0.00	0.00	0.008	0.005	0.003
								413	1059.00	1062.00	3.00	tr		0.01	0.00	0.00	0.008	0.004	0.003
								414	1062.00	1065.00	3.00	tr		0.01	0.00	0.00	0.007	0.006	0.003
								415	1065.00	1068.00	3.00	0.25		0.00	0.00	0.00	0.007	0.005	0.003
								416	1068.00	1071.00	3.00	0.25		0.00	0.00	0.00	0.006	0.005	0.004
								417	1071.00	1074.00	3.00	0.25		0.04	0.01	0.00	0.007	0.011	0.004
								418	1074.00	1077.00	3.00	0.50		0.01	0.00	0.00	0.008	0.006	0.004
								419	1077.00	1080.00	3.00	0.25		0.00	0.00	0.00	0.008	0.006	0.004
								420	1080.00	1081.20	1.20	tr		0.00	0.00	0.00	0.008	0.006	0.004

# DIAMOND DRILL CORE LOGGING SHEETS

PROPERTY LDI ZONE N. Roby/Baker HOLE # 00-204

LOGGED BY: B. Nelson SIGNATURE

METERAGE		DESCRIPTION	SAMPLES							ASSAYS								
FROM	TO		Alt <sup>m</sup>	Bx Matrix		No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %	
1081.20	1233.00	<p><b>HETEROLITHIC GABBRO BRECCIA (ALTERED)</b></p> <p>Altered and locally mottled, not classic Gabbro Breccia and locally exhibits a varied texture, local very strong to intense saussuritization of Plag over print gives section a very heterogeneous appearance, clast supported Gabbro breccia containing varied-textured gabbro and Gabbro clasts but no lithology to define matrix.</p> <p>Medium grained to coarse grained to locally pegmatitic, green-grey to green-buff grey, predominantly hard to locally soft, and not magnetic, contacts between textural and compositional variations are predominantly sharp to locally gradational, moderate erratic Plag rich stringers, veinlets and veins, moderate to strong epidote predominantly appears associated with patchy Plag rich sub-sections of coarse grained Gabbro, local moderate to strong talc, locally breccia appears to be disrupted and contorted by late narrow 10 to 20cm scale shears.</p> <p>Cpx 35-60% Plag 40-65%</p> <p>Moderate to strong to locally intense alteration of clinopyroxene to actinolite +/- talc.</p> <p>Moderate to strong to intense alteration of Plag, locally intensely saussuritized.</p> <p>Local minor medium grained blebby chalcopyrite.</p> <p>1087.15m - 187.40m: Lake Mafic Dike</p> <p>Very fine grained, black, hard, weakly magnetic, trace Pyrite. Sharp contacts at 40° to core axis.</p>	2	3			421	1081.20	1083.00	1.80	tr		0.33	0.04	0.01	0.002	0.039	0.004
			2	3			422	1083.00	1086.00	3.00	tr		0.61	0.07	0.03	0.009	0.044	0.003
			3	3			423	1086.00	1089.00	3.00			0.46	0.05	0.01	0.002	0.034	0.004
			2	3			424	1089.00	1092.00	3.00			0.18	0.02	0.00	0.001	0.036	0.004
			3	3			425	1092.00	1095.00	3.00			0.32	0.04	0.00	0.002	0.027	0.003
			2	3			426	1095.00	1098.00	3.00			0.38	0.05	0.01	0.004	0.025	0.003
			3	3			427	1098.00	1101.00	3.00			0.08	0.01	0.00	0.002	0.023	0.003
			4	4			428	1101.00	1104.00	3.00			1.01	0.07	0.01	0.003	0.044	0.005
			3	3			429	1104.00	1107.00	3.00			2.30	0.23	0.02	0.002	0.039	0.004
			3	3			430	1107.00	1110.00	3.00			1.84	0.17	0.02	0.003	0.036	0.004
			4	4			431	1110.00	1113.00	3.00			2.90	0.21	0.04	0.007	0.045	0.004
			4	4			432	1113.00	1114.60	1.60			1.92	0.18	0.04	0.009	0.037	0.004
							433	1114.60	1116.00	1.40	tr		0.06	0.00	0.00	0.006	0.002	0.003
							434	1116.00	1119.00	3.00	0.25		0.01	0.00	0.00	0.006	0.001	0.003
							435	1119.00	1121.00	2.00	0.25		0.01	0.00	0.00	0.007	0.003	0.003
							436	1121.00	1122.70	1.70	tr		0.08	0.01	0.01	0.008	0.005	0.003
			4	4			437	1122.70	1125.00	2.30			2.40	0.16	0.13	0.033	0.054	0.004
			3	3			438	1125.00	1128.00	3.00	0.25		5.60	0.29	0.04	0.045	0.089	0.005
			4	4			439	1128.00	1131.00	3.00	tr		4.60	0.23	0.08	0.032	0.089	0.004
			4	4			440	1131.00	1134.00	3.00			3.10	0.19	0.04	0.003	0.029	0.002
			4	4			441	1134.00	1137.00	3.00			3.50	0.23	0.02	0.002	0.043	0.003
			4	3			442	1137.00	1140.00	3.00			7.30	0.58	0.07	0.021	0.064	0.003
			3	3			443	1140.00	1143.00	3.00			1.94	0.18	0.02	0.002	0.034	0.003
			4	4			444	1143.00	1146.00	3.00			3.70	0.35	0.08	0.023	0.057	0.004
			4	4			445	1146.00	1149.00	3.00			0.76	0.19	0.21	0.027	0.059	0.004
			4	4			446	1149.00	1152.00	3.00			0.37	0.08	0.10	0.010	0.040	0.003
			4	4			447	1152.00	1155.00	3.00			0.17	0.07	0.12	0.033	0.068	0.004
		3	3			448	1155.00	1158.00	3.00			1.23	0.22	0.18	0.056	0.100	0.005	
		3	3			449	1158.00	1161.00	3.00			0.59	0.12	0.08	0.028	0.061	0.004	
		3	3			450	1161.00	1164.00	3.00			0.53	0.13	0.05	0.020	0.052	0.005	











# ALS Chemex

Aurora Laboratory Services Ltd.  
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246 42

To: LAC DES ILES MINES LTD.-EXPLORATION  
 NORTH AMERICAN PALLADIUM  
 P.O. BOX 10547  
 WINDERMERE BAY, ON  
 L9R 6T9  
 Project: #1033-00-204  
 Comments: ATTN: MOE LAVIGNE

Page Number : 1-A  
 Total Pages : 2  
 Certificate Date: 13-AUG-2001  
 Invoice No. : I0121594  
 P.O. Number : 1000179  
 Account : MZI

## CERTIFICATE OF ANALYSIS

### A0121594

SAMPLE	PREP		Pd ppb	Pt ppb	Au ppb	Al2O3	Fe2O3	MgO	Cu %	Ni %	Co %	Fe %	S %	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm
	CODE		ICP-MS	ICP-MS	ICP-MS	% Calc	% Calc	% Calc	calc.	calc.	calc.	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)
00-204-391	388	276	34	9.5	6	18.15	6.10	5.29	0.0129	0.0151	0.0040	4.27	0.18	< 0.5	9.61	5	100	< 0.5	< 2	6.8	0.5
00-204-392	388	276	90	17.5	7	21.6	5.60	4.36	0.0127	0.0151	0.0033	3.92	0.16	< 0.5	11.43	5	110	< 0.5	< 2	7.5	0.5
00-204-393	388	276	31	7.5	3	17.10	6.45	5.95	0.0081	0.0137	0.0042	4.51	0.09	< 0.5	9.04	10	70	< 0.5	< 2	7.0	< 0.5
00-204-394	388	276	20	5.0	4	19.65	7.39	6.53	0.0071	0.0139	0.0046	5.17	0.05	< 0.5	10.40	10	60	< 0.5	< 2	8.1	1.0
00-204-395	388	276	20	5.0	1	18.70	6.33	5.47	0.0058	0.0116	0.0041	4.43	0.05	< 0.5	9.89	15	70	< 0.5	< 2	7.3	0.5
00-204-396	388	276	17	4.0	1	19.50	6.51	5.70	0.0053	0.0120	0.0042	4.55	0.10	< 0.5	10.33	5	70	< 0.5	< 2	7.4	0.5
00-204-397	388	276	17	4.0	3	19.55	6.62	5.75	0.0053	0.0123	0.0042	4.63	0.12	< 0.5	10.36	10	60	< 0.5	< 2	7.5	0.5
00-204-398	388	276	18	4.0	2	18.75	6.33	5.60	0.0053	0.0115	0.0039	4.43	0.05	< 0.5	9.92	15	50	< 0.5	< 2	7.2	0.5
00-204-399	388	276	15	3.0	1	19.75	6.85	6.02	0.0058	0.0128	0.0043	4.79	0.08	< 0.5	10.45	10	50	< 0.5	< 2	7.5	0.5
00-204-400	388	276	14	3.0	1	18.40	6.56	5.90	0.0056	0.0129	0.0043	4.59	0.08	< 0.5	9.73	5	60	< 0.5	< 2	6.9	0.5
00-204-401	388	276	11	2.5	2	16.65	6.18	5.39	0.0075	0.0122	0.0041	4.32	0.10	< 0.5	8.80	5	70	< 0.5	< 2	6.4	0.5
00-204-402	388	276	15	3.0	2	18.35	6.02	5.41	0.0051	0.0110	0.0038	4.21	0.06	< 0.5	9.70	5	80	< 0.5	< 2	6.8	0.5
00-204-403	388	276	14	2.5	2	17.80	6.02	5.41	0.0050	0.0110	0.0038	4.21	0.06	< 0.5	9.42	10	80	< 0.5	< 2	6.5	< 0.5
00-204-404	388	276	11	2.0	1	20.4	4.58	3.78	0.0039	0.0079	0.0031	3.20	0.08	< 0.5	10.81	15	80	< 0.5	< 2	7.4	0.5
00-204-405	388	276	15	3.0	1	19.30	5.68	4.97	0.0047	0.0107	0.0038	3.97	0.05	< 0.5	10.22	5	70	< 0.5	< 2	7.1	0.5
00-204-406	388	276	16	2.5	1	20.7	5.95	5.14	0.0054	0.0112	0.0039	4.16	0.05	< 0.5	10.94	5	80	< 0.5	< 2	7.8	0.5
00-204-407	388	276	15	2.5	1	18.70	5.26	4.68	0.0047	0.0098	0.0034	3.64	0.08	< 0.5	9.90	15	120	< 0.5	< 2	6.6	0.5
00-204-408	388	276	39	6.0	3	20.2	5.70	4.58	0.0129	0.0126	0.0037	3.99	0.25	< 0.5	10.71	5	110	< 0.5	< 2	6.9	0.5
00-204-409	388	276	21	6.5	4	21.7	5.52	4.59	0.0097	0.0116	0.0036	3.86	0.07	< 0.5	11.49	5	80	< 0.5	< 2	7.6	0.5
00-204-410	388	276	< 1	< 0.5	3	14.90	9.62	4.38	0.0087	0.0068	0.0044	6.73	0.38	< 0.5	7.89	< 5	180	< 0.5	< 2	5.1	< 0.5
00-204-411	388	276	< 1	0.5	< 1	13.70	8.85	3.61	0.0046	0.0059	0.0035	6.19	0.29	< 0.5	7.24	< 5	260	< 0.5	< 2	4.6	< 0.5
00-204-412	388	276	19	3.0	1	14.75	9.06	2.60	0.0080	0.0054	0.0031	6.34	0.28	< 0.5	7.80	< 5	380	< 0.5	14	4.5	< 0.5
00-204-413	388	276	8	1.5	1	15.50	9.97	2.60	0.0080	0.0038	0.0032	6.97	0.37	< 0.5	8.20	< 5	340	< 0.5	2	5.2	< 0.5
00-204-414	388	276	10	2.5	1	17.30	7.92	3.30	0.0065	0.0063	0.0031	5.54	0.20	< 0.5	9.15	< 5	230	< 0.5	< 2	5.8	< 0.5
00-204-415	388	276	2	0.5	1	15.20	9.38	3.42	0.0073	0.0051	0.0034	6.56	0.41	< 0.5	8.04	< 5	380	< 0.5	< 2	5.3	< 0.5
00-204-416	388	276	< 1	< 0.5	< 1	13.25	10.20	3.52	0.0058	0.0046	0.0039	7.13	0.34	< 0.5	7.01	< 5	270	< 0.5	10	4.6	< 0.5
00-204-417	388	276	44	5.5	2	14.75	8.85	4.73	0.0059	0.0112	0.0037	6.19	0.17	< 0.5	7.81	< 5	270	< 0.5	< 2	5.1	< 0.5
00-204-418	388	276	6	0.5	1	13.60	9.09	3.52	0.0075	0.0057	0.0035	6.36	0.73	< 0.5	7.19	< 5	310	< 0.5	14	4.4	< 0.5
00-204-419	388	276	1	< 0.5	2	14.25	9.44	3.85	0.0075	0.0059	0.0036	6.60	0.29	< 0.5	7.54	< 5	260	< 0.5	< 2	4.9	< 0.5
00-204-420	388	276	< 1	< 0.5	2	14.10	10.70	4.28	0.0078	0.0061	0.0043	7.49	0.25	< 0.5	7.45	< 5	190	< 0.5	< 2	5.3	< 0.5
00-204-421	388	276	330	38.0	7	15.55	4.59	9.12	0.0018	0.0392	0.0036	3.21	0.03	< 0.5	8.24	< 5	130	< 0.5	< 2	5.7	< 0.5
00-204-422	388	276	610	68.5	28	16.10	4.29	7.96	0.0090	0.0436	0.0033	3.00	0.04	< 0.5	8.53	< 5	150	< 0.5	< 2	5.7	< 0.5
00-204-423	388	276	460	53.5	12	16.30	5.16	8.66	0.0074	0.0339	0.0036	3.61	0.04	< 0.5	8.64	< 5	130	< 0.5	< 2	5.9	< 0.5
00-204-424	388	276	180	24.5	2	18.10	5.10	8.95	0.0006	0.0357	0.0038	3.57	0.03	< 0.5	9.59	< 5	180	< 0.5	< 2	6.9	< 0.5
00-204-425	388	276	320	42.0	4	19.95	4.60	7.30	0.0021	0.0268	0.0030	3.22	0.04	< 0.5	10.56	< 5	160	< 0.5	< 2	7.2	< 0.5
00-204-426	388	276	380	46.5	8	15.95	5.50	6.47	0.0041	0.0245	0.0032	3.85	0.09	< 0.5	8.44	< 5	180	< 0.5	< 2	5.3	< 0.5
00-204-427	388	276	83	13.5	1	16.55	5.19	6.65	0.0020	0.0225	0.0031	3.63	0.06	< 0.5	8.75	< 5	210	< 0.5	< 2	5.4	< 0.5
00-204-428	388	276	1010	74.5	11	14.35	5.68	11.60	0.0026	0.0435	0.0046	3.97	0.03	< 0.5	7.54	< 5	60	< 0.5	< 2	5.4	< 0.5
00-204-429	388	276	2300	225	17	16.55	4.82	8.74	0.0016	0.0385	0.0037	3.37	0.04	< 0.5	8.77	< 5	70	< 0.5	< 2	6.2	< 0.5
00-204-430	388	276	1840	173.0	20	16.95	4.82	8.90	0.0029	0.0362	0.0039	3.37	0.06	< 0.5	8.97	< 5	110	< 0.5	< 2	5.8	< 0.5

CERTIFICATION: \_\_\_\_\_

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11/20/02 WED 10:40 FAX 905-624-2808 ALS CHEMEX 0170 FOR 600



# ALS Chemex

Aurora Laboratory Services Ltd  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.-EXPLORATION  
 NORTH AMERICAN PALLADIUM  
 P.O. BOX 10547  
 THUNDER BAY, ON  
 P7B 6T9

Page Number :2-A  
 Total Pages :2  
 Certificate Date: 13-AUG-2001  
 Invoice No. :10121594  
 P.O. Number :1000179  
 Account :MZ1

Project: #1033-00-204  
 Comments: ATTN: MOE LAVIGNE

## CERTIFICATE OF ANALYSIS A0121594

SAMPLE	PREP CODE	Fd ppb	Pt ppb	An ppb	Al2O3	Fe2O3	MgO	Cu %	Ni %	Co %	Fe %	S %	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ce %	Cd ppm
		ICP-MS	ICP-MS	ICP-MS	% Calc	% Calc	% Calc	calc.	calc.	calc.	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)
00-204-431	1388 276	2500	211	37	16.55	4.68	9.02	0.0067	0.0454	0.0042	3.27	0.02	< 0.5	8.77	< 5	100	< 0.5	< 2	5.4	0.5
00-204-432	1388 276	1920	180.0	39	19.55	4.58	7.08	0.0087	0.0369	0.0036	3.20	0.03	< 0.5	10.36	10	210	< 0.5	< 2	5.9	0.5
00-204-433	1388 276	57	1.5	2	15.80	9.29	2.26	0.0059	0.0020	0.0027	6.50	0.12	< 0.5	8.36	< 5	290	0.5	< 2	4.1	0.5
00-204-434	1388 276	7	0.5	1	15.55	9.49	2.26	0.0057	0.0013	0.0029	6.64	0.47	< 0.5	8.22	15	280	0.5	2	4.1	< 0.5
00-204-435	1388 276	9	0.5	2	15.10	9.14	2.95	0.0066	0.0028	0.0029	6.39	0.40	< 0.5	7.99	10	90	0.5	< 2	3.8	< 0.5
00-204-436	1388 276	84	5.5	9	14.20	9.32	2.70	0.0075	0.0050	0.0031	6.52	0.64	< 0.5	7.51	5	120	0.5	< 2	4.1	0.5
00-204-437	1388 276	2400	164.5	125	17.15	5.78	9.48	0.0329	0.0538	0.0044	4.04	0.15	< 0.5	9.07	5	130	< 0.5	< 2	5.7	0.5
00-204-438	1388 276	5600	288	39	15.10	5.58	8.09	0.0453	0.0889	0.0045	3.90	0.58	0.5	8.00	5	220	0.5	8	5.2	0.5
00-204-STA-197	2149 285	2800	242	280	15.80	6.39	9.72	0.1240	0.1340	0.0063	4.47	0.31	0.5	8.36	15	60	< 0.5	< 2	5.6	0.5

CERTIFICATION: \_\_\_\_\_

ALS CHEMEX

11/20/02 WED 10:47 FAX 004 904 0410

# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
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 NORTH AMERICAN PALLADIUM  
 P.O. BOX 10547  
 THUNDER BAY, ON  
 P7B 8T9

Page Number : 1-B  
 Total Pages : 1  
 Certificate Date: 13-AUG-2001  
 Invoice No. : 10121660  
 P.O. Number : 1000182  
 Account : MZI

Project : #1033-00-204  
 Comments: ATTN: MOE LAVIGNE

## CERTIFICATE OF ANALYSIS

A0121660

SAMPLE	PREP CODE	Cr ppm (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	P ppm (ICP)	Pb ppm (ICP)	Sb ppm (ICP)	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)	Cu ppm (ICP)	Ni ppm (ICP)	Co ppm (ICP)
00-204-439	1388 276	137	0.77	4.81	635	3	1.48	160	12	5	226	0.07	69	10	36	323	888	39
00-204-440	1388 276	65	0.34	2.41	290	4	0.71	< 10	4	5	82	0.01	34	10	14	32	289	17
00-204-441	1388 276	101	0.97	3.61	495	4	1.91	20	2	5	227	0.05	68	30	30	19	425	26
00-204-442	1388 276	151	0.77	4.54	585	5	1.33	< 10	2	< 5	205	0.05	68	10	36	214	641	33
00-204-443	1388 276	172	0.84	4.93	595	4	1.25	< 10	14	5	165	0.03	57	20	28	16	338	31
00-204-444	1388 276	183	0.65	4.78	635	5	1.18	60	< 2	5	183	0.03	59	10	40	228	566	35
00-204-445	1388 276	245	0.46	5.53	700	4	1.12	50	6	5	155	0.03	66	10	42	270	586	42
00-204-446	1388 276	180	0.46	4.45	595	4	1.26	10	< 2	< 5	179	0.03	57	10	38	97	401	32
00-204-447	1388 276	176	0.48	4.98	680	3	1.15	30	< 2	10	180	0.03	63	< 10	42	333	676	39
00-204-448	1388 276	243	0.41	5.81	795	3	1.16	< 10	< 2	15	144	0.04	80	30	66	556	995	52
00-204-449	1388 276	205	0.62	5.15	730	10	1.40	< 10	6	5	178	0.04	70	10	42	283	608	42
00-204-450	1388 276	247	0.48	6.21	790	2	1.21	< 10	2	15	145	0.03	67	10	46	197	517	45
00-204-451	1388 276	150	0.49	4.82	690	15	1.46	< 10	6	20	201	0.05	73	10	44	76	347	35
00-204-452	1388 276	131	0.73	3.98	610	2	1.87	< 10	< 2	10	220	0.05	66	10	40	132	290	29
00-204-453	1388 276	153	0.63	4.43	715	5	1.67	< 10	14	< 5	209	0.05	87	10	46	72	278	35
00-204-454	1388 276	264	0.34	5.32	740	3	1.33	< 10	12	5	180	0.04	64	< 10	42	42	303	38
00-204-455	1388 276	286	0.30	4.78	645	3	1.37	< 10	14	< 5	183	0.03	61	10	38	54	312	33
00-204-456	1388 276	205	0.47	4.74	755	4	1.66	< 10	8	10	181	0.05	78	< 10	44	237	465	37
00-204-457	1388 276	219	0.37	5.05	730	5	1.28	< 10	< 2	15	155	0.04	75	< 10	40	203	471	42
00-204-458	1388 276	214	0.48	5.54	755	3	1.49	< 10	8	5	183	0.03	74	< 10	48	151	415	42
00-204-459	1388 276	219	0.59	5.02	800	3	1.57	< 10	2	< 5	166	0.05	84	< 10	48	201	417	42
00-204-460	1388 276	18	0.49	1.69	1055	2	2.44	1080	8	< 5	317	0.53	172	10	112	94	31	38
00-204-461	1388 276	72	0.49	2.60	690	5	1.77	430	8	< 5	220	0.22	95	10	64	237	209	30
00-204-462	1388 276	105	0.68	3.52	900	4	2.43	480	< 2	< 5	302	0.26	120	10	80	353	307	41
00-204-BTA-198	214 1285	204	0.30	5.96	900	1	1.36	< 10	6	5	176	0.06	102	10	70	1370	1470	60

CERTIFICATION:

11/20/02 WED 14:34 FAX 604 854 0210 ALS UNLEMLA



# ALS Chemex

Aurora Laboratory Services Ltd.  
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 5175 Timberlea Blvd., Mississauga  
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 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.-EXPLORATION  
 NORTH AMERICAN PALLADIUM  
 P.O. BOX 10547  
 THUNDER BAY, ON  
 P7B 6T9

Page Number : 1-A  
 Total Pages : 1  
 Certificate Date: 13-AUG-2001  
 Invoice No. : 10121785  
 P.O. Number : 1000185  
 Account : MZI

Project: #1033-00-204  
 Comments: ATTN: MOE LAVIGNE

## CERTIFICATE OF ANALYSIS

A0121785

SAMPLE	PREP CODE		Pd ppb	Pt ppb	Au ppb	Al2O3	Fe2O3	MgO	Cu %	Ni %	Co %	Fe %	S %	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm
	ICP-MS	ICP-MS	ICP-MS	% Calc	% Calc	% Calc	calc.	calc.	calc.	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)
00-204-463	388	294	980	166.0	85	16.55	4.50	6.17	0.0374	0.0564	0.0037	3.15	0.10	< 0.5	8.75	< 5	320	< 0.5	< 2	5.3	< 0.5
00-204-464	388	276	830	195.5	68	15.45	5.66	8.95	0.0305	0.0520	0.0046	3.96	0.07	< 0.5	8.18	< 5	80	< 0.5	< 2	6.3	< 0.5
00-204-465	388	294	115	59.5	7	19.30	2.86	4.31	0.0054	0.0162	0.0020	2.00	0.03	< 0.5	10.21	< 5	140	< 0.5	< 2	6.9	< 0.5
00-204-466	388	276	230	26.0	22	14.85	4.92	5.55	0.0262	0.0229	0.0030	3.44	0.24	< 0.5	7.86	10	140	< 0.5	< 2	5.8	1.5
00-204-467	388	294	320	89.0	15	16.40	4.55	6.78	0.0105	0.0299	0.0033	3.18	0.04	< 0.5	8.69	< 5	100	< 0.5	< 2	6.3	< 0.5
00-204-468	388	294	110	26.0	14	16.10	3.75	5.95	0.0089	0.0232	0.0028	2.62	0.04	< 0.5	8.53	< 5	90	< 0.5	< 2	6.1	< 0.5
00-204-469	388	294	115	56.0	7	19.75	3.26	5.11	0.0068	0.0178	0.0022	2.28	0.02	< 0.5	10.45	5	90	< 0.5	< 2	7.8	< 0.5
00-204-470	388	294	400	86.0	32	14.20	5.95	8.92	0.0372	0.0406	0.0049	4.16	0.08	< 0.5	7.52	5	80	< 0.5	< 2	5.7	1.0
00-204-471	388	276	430	79.0	47	12.60	6.32	9.92	0.0387	0.0453	0.0050	4.42	0.11	< 0.5	6.67	5	60	< 0.5	< 2	5.7	1.5
00-204-472	388	276	320	77.0	18	10.30	6.69	11.40	0.0110	0.0426	0.0055	4.68	0.05	< 0.5	5.46	< 5	40	< 0.5	< 2	4.4	0.5
00-204-473	388	276	175	66.5	5	16.50	3.75	5.85	0.0053	0.0204	0.0026	2.62	0.02	< 0.5	9.78	< 5	120	< 0.5	< 2	6.3	0.5
00-204-474	388	276	135	58.5	1	19.70	3.06	4.61	0.0025	0.0156	0.0020	2.14	0.01	< 0.5	10.42	< 5	120	< 0.5	< 2	6.4	< 0.5
00-204-475	388	276	125	57.0	2	17.75	3.66	5.60	0.0016	0.0213	0.0026	2.56	0.01	< 0.5	9.39	5	120	< 0.5	< 2	6.3	0.5
00-204-476	388	276	290	91.0	4	16.90	4.79	7.20	0.0043	0.0272	0.0036	3.35	0.01	< 0.5	8.94	10	110	< 0.5	< 2	6.4	1.0
00-204-477	388	276	340	76.5	24	17.75	5.23	8.03	0.0138	0.0389	0.0041	3.66	0.03	< 0.5	9.40	< 5	120	< 0.5	< 2	6.5	1.5
00-204-SYA-200	214	285	3000	277	310	14.80	6.12	8.56	0.1260	0.1420	0.0060	4.28	0.36	0.5	7.83	35	60	< 0.5	< 2	6.0	1.5

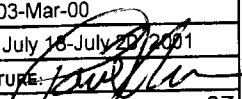
CERTIFICATION: \_\_\_\_\_

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# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.

LAC DES ILES MINES LTD.

<b>PROPERTY:</b> LAC DES ILES	<b>Claim:</b> 253	<b>DOWNHOLE SURVEY METHOD:</b> Maxibor			<b>DRILLING COMPANY:</b> CHIBOUGAMAU	
<b>HOLE NO.:</b> 00-205	<b>LENGTH: (m)</b> 1260	<b>CORE SIZE:</b> NQ	<b>DEPTH</b>	<b>DIP</b>	<b>AZM</b>	<b>REMARKS:</b> Core is stored at Lac des Iles mine site
<b>LOCATION - MINE GRID OR UTM:</b>		<b>NORTHING:</b> 32193.507	<b>EASTING:</b> 32740.737		23-Feb-00-03-Mar-00	
<b>SECTION:</b> 508N	<b>ZONE:</b> Roby	<b>ELEVATION:</b> 496.767			<b>DATE LOGGED:</b> Ext. logged July 18-July 20, 2001	
<b>COLLAR ORIENTATION (AZIMUTH / DIP);</b>		<b>PLANNED:</b> 251°/-50°	<b>SURVEYED:</b> 248.587°/-51.714°		<b>LOGGED:</b> B. Nelson	
<b>HOLE STARTED:</b> 19-Feb-00	<b>HOLE FINISHED:</b> 21-Jul-01	<b>MAG DECLINATION:</b> 2.1° W		<b>SHEET</b> 1 <b>OF</b> 37		<b>SIGNATURE:</b> 

METERAGE		DESCRIPTION	Rock Code	SAMPLES					ASSAYS								
FROM	TO			Alt <sup>m</sup>	Bx Matrix		No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %
			Plag	Pxr	Comp	Prop't											
0.00	1.70	<b>OVERBURDEN</b>															
1.70	113.10	<b>GABBRONORITE</b> Medium grained, medium to dark greenish grey to locally weakly brownish-greenish grey, predominantly hard to locally soft, and moderately magnetic, overall moderate to strong fracturing of core at various degrees to core axis, local strong chlorite + talc? coating fracture surfaces, locally compositionally more of a melanogabbro 10-50% Opx, 10-40% Cpx, 30-50% Plag Moderate to strong alteration of Opx and Cpx Weak to moderate alteration of Plag No visible sulfides mineralization Very local, very minor white-grey quartz Plag stringers and veins Very local patchy medium grained quartz diorite dikeing Very locally foliated at 60° to core axis															
			2	2			001	1.70	4.00	2.30	nil	<0.07	<0.07	<0.03	----	----	
			2	2			002	4.00	6.00	2.00	nil	<0.07	<0.07	<0.03	----	----	
			2	2			003	6.00	9.00	3.00	nil	<0.07	<0.07	<0.03	----	----	
			2	2			004	9.00	12.00	3.00	nil	<0.07	<0.07	<0.03	----	----	
			2	2			005	12.00	15.00	3.00	nil	0.07	0.07	<0.03	----	----	
			2	2			006	15.00	18.00	3.00	nil	0.14	<0.07	<0.03	----	----	
			2	2			007	18.00	21.00	3.00	nil	0.07	<0.07	0.03	----	----	
			2	2			008	21.00	24.00	3.00	nil	0.07	<0.07	0.06	----	----	
			2	2			009	24.00	27.00	3.00	nil	0.14	<0.07	0.06	----	----	
			2	2			010	27.00	30.00	3.00	nil	0.14	<0.07	<0.03	----	----	
			2	2			011	30.00	33.00	3.00	nil	0.14	<0.07	<0.03	----	----	
			2	2			012	33.00	36.00	3.00	nil	0.14	<0.07	<0.03	----	----	
			2	2			013	36.00	39.00	3.00	nil	0.14	<0.07	<0.03	----	----	
			2	2			014	39.00	42.00	3.00	nil	0.14	<0.07	<0.03	----	----	
			2	2			015	42.00	45.00	3.00	nil	0.14	<0.07	<0.03	----	----	
			2	2			016	45.00	48.00	3.00	nil	0.14	0.07	<0.03	----	----	
			2	2			017	48.00	51.00	3.00	nil	0.14	<0.07	<0.03	----	----	
			2	2			018	51.00	54.00	3.00	nil	0.21	<0.07	<0.03	----	----	
			2	2			019	54.00	57.00	3.00	nil	0.14	<0.07	<0.03	----	----	
			2	2			020	57.00	60.00	3.00	nil	0.14	<0.07	<0.03	----	----	
			2	2			021	60.00	63.00	3.00	nil	0.14	<0.07	<0.03	----	----	
			2	2			022	63.00	66.00	3.00	nil	0.28	0.07	<0.03	----	----	
			2	2			023	66.00	69.00	3.00	nil	0.14	<0.07	<0.03	----	----	
			2	2			024	69.00	72.00	3.00	nil	0.14	<0.07	<0.03	----	----	
			2	2			025	72.00	75.00	3.00	nil	0.07	<0.07	<0.03	----	----	







# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-205

LOGGED BY: B. Nelson SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup> Bx Matrix				SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
113.10	131.55	<b>MELANOGABBRO (continued)</b> 118.75 - 120.00m Gabbronorite - medium grained, brownish-green grey, hard and moderately magnetic Upper and lower contacts gradational over a few cms 124.1 - 124.4m Diorite dike - very irregular contacts at low angle to core axis 126.4 - 126.5m Very irregular creamy-white quartz-Plag veining																
131.55	139.40	<b>GABBRONORITE</b> Medium grained, brownish-greenish grey, quite soft and moderately magnetic, local moderate 0.5cm to 10cm scale erratic white-grey quartz-Plag veinlets and veins, local narrow shearing very locally associated with quartz and Plag veining 10-40% Opx, 10-40% Cpx, 35-40% Plag Moderate to strong alteration of Opx and Cpx Weak to moderate alteration of Plag No visible sulfide mineralization	2	3			046	131.55	134.50	2.95	nil		0.07	<0.07	<0.03	-----	-----	
			2	3			047	134.50	137.50	3.00	nil		0.07	<0.07	<0.03	-----	-----	
			2	3			048	137.50	139.40	1.90	nil		0.07	<0.07	<0.03	-----	-----	
139.40	146.70	<b>MELANOGABBRO</b> Medium grained, greenish-grey, quite soft and not magnetic, local minor 2cm to 5cm scale quartz-Plag veining Gradational upper and lower contacts 70-80% Cpx, 20-30% Plag Stong alteration of Cpx to actinolite and chlorite	2	3			049	139.40	142.00	2.60			0.07	<0.07	<0.03	-----	-----	
			2	3			050	142.00	145.00	3.00			0.07	<0.07	<0.03	-----	-----	
			2	3			051	145.00	146.70	1.70			0.14	<0.07	<0.03	-----	-----	



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North American Palladium Ltd.  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-205

LOGGED BY: B. Nelson SIGNATURE

METERAGE		DESCRIPTION	Bx Matrix				SAMPLES					ASSAYS							
FROM	TO		Alt <sup>n</sup>	Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	NI %	Co %
201.20	279.15		<p><b>MELANOGABBRONORITE</b></p> <p>Medium grained, medium to dark greenish-grey, moderately hard to very soft, predominantly not magnetic to locally moderately magnetic, very local minor 0.5cm to 2cm scale white quartz-Plag stringers and veinlets at moderate to high angle to core axis, moderate to strong to locally intense alteration producing strong patchy black chlorite 20-60% Opx, 10-30% Cpx, 10-20% Plag Moderate to strong to intense alteration of Opx and Cpx to actinolite and chlorite Moderate to strong alteration of Plag No visible sulfide mineralization</p> <p>201.5 - 205.5m 20% 2cm to 40cm scale pinky-buff-white dioritic dikes Contacts at various degrees to core axis Dikes crosscut strongly altered melano-gabbronorite</p> <p>205.50 - 240.65m Strong to intense alteration of melanogabbronorite Somewhat patchy alteration with most intense alteration exhibited by patchy black chlorite and remnant shiny altered Opx crystals Local very strong black chlorite on fracture surfaces Local moderately strong altered sub-section displaying brown equant Opx crystals</p> <p>228.0 - 229.2m Patchy to veiny Plag exhibiting strong pinkish staining --&gt; K-spar?</p> <p>At 261.5m Quartz-Plag veinlets containing 25% coarse grained mafic inclusions trends at 20° to core axis</p>																
			2	3				070	201.20	204.00	2.80	nil		0.14	<0.07	<0.03	----	----	
			2	3				071	204.00	207.00	3.00	nil		0.14	<0.07	<0.03	----	----	
			2	3				072	207.00	210.00	3.00	nil		0.14	<0.07	<0.03	----	----	
			3	4				073	210.00	213.00	3.00	nil		0.07	<0.07	<0.03	----	----	
			3	4				074	213.00	216.00	3.00	nil		0.14	<0.07	<0.03	----	----	
			2	3				075	216.00	219.00	3.00	nil		0.21	<0.07	<0.03	----	----	
			3	4				076	219.00	222.00	3.00	nil		0.14	<0.07	<0.03	----	----	
			3	4				077	222.00	225.00	3.00	nil		0.28	<0.07	<0.03	----	----	
			3	4				078	225.00	228.00	3.00	nil		0.14	<0.07	<0.03	----	----	
			3	4				079	228.00	231.00	3.00	nil		0.14	<0.07	<0.03	----	----	
			3	4				080	231.00	234.00	3.00	nil		0.14	<0.07	<0.03	----	----	
			3	4				081	234.00	237.00	3.00	nil		0.14	<0.07	<0.03	----	----	
			3	4				082	237.00	240.00	3.00	nil		0.14	<0.07	<0.03	----	----	
			2	3				083	240.00	243.00	3.00	nil		0.14	<0.07	<0.03	----	----	
			2	3				084	243.00	246.00	3.00	nil		0.14	<0.07	<0.03	----	----	
			3	4				085	246.00	249.00	3.00	nil		0.14	<0.07	<0.03	----	----	
			2	3				086	249.00	252.00	3.00	nil		0.14	<0.07	<0.03	----	----	
			2	3				087	252.00	255.00	3.00	nil		0.21	<0.07	<0.03	----	----	
			2	3				088	255.00	258.00	3.00	nil		0.21	<0.07	<0.03	----	----	
			2	3				089	258.00	261.00	3.00	nil		0.14	<0.07	<0.03	----	----	
			2	3				090	261.00	264.00	3.00	nil		0.21	<0.07	<0.03	----	----	
			2	3				091	264.00	267.00	3.00	nil		0.14	<0.07	<0.03	----	----	
			2	3				092	267.00	270.00	3.00	nil		0.28	<0.07	<0.03	----	----	
			2	3				093	270.00	273.00	3.00	nil		0.14	<0.07	<0.03	----	----	
			2	3				094	273.00	276.00	3.00	nil		0.28	<0.07	<0.03	----	----	
			2	3				095	276.00	279.15	3.15	nil		0.98	0.14	0.09	----	----	

# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-205

LOGGED BY: B. Nelson SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup> Bx Matrix				SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	NI %	Co %
279.15	286.85	<b>DIABASE DIKE</b> Fine grained, medium grey to light grey, very hard and not magnetic exhibiting a well-defined banded/layered texture, alternate medium grey and light grey 2mm to 3cm scale bands oriented at 50 to 90° to core axis, local minor erratic white-grey 2mm to 2cm scale Plag rich stringers, local minor 5cm to 25cm scale inclusions of gabbro No visible sulfide mineralization Sharp contact at 279.1m at approx. 90° to core axis Contact at 286.85m at 80-90° to core axis					096	279.15	282.00	2.85	nil		0.07	<0.07	<0.03	----	----	
							097	282.00	285.00	3.00	nil		<0.07	<0.07	<0.03	----	----	
							098	285.00	286.85	1.85	nil		0.07	<0.07	<0.03	----	----	
286.85	288.90	<b>MELANOGABBRO</b> Medium grained, dark green-grey, very soft and moderately magnetic, almost compositionally a pyroxenite 90% combined Opx and Cpx, 10% Plag Intense alteration of Opx and Cpx No visible sulfide mineralization Sharp contact at 288.9m at 75° to core axis		4			099	286.85	288.90	2.05	nil		0.28	<0.07	<0.03	----	----	
288.90	298.10	<b>GABBRO</b> Medium grained, greenish-grey to light greenish-buff, relatively equigranular, very hard and not magnetic, local intense bleaching associated with intermediate dikes, local possible epidote 35-45% Cpx, 55-65% Plag Moderate alteration of Cpx and Plag No visible sulfides Gradational contact at 298.1m over 30cm	2	2			100	288.90	291.90	3.00			<0.07	<0.07	<0.03	----	----	
			2	2			101	291.90	294.65	2.75			0.07	<0.07	<0.03	----	----	
			2	2			102	294.65	297.00	2.35			<0.07	<0.07	<0.03	----	----	
			2	2			103	297.00	298.10	1.10			0.07	<0.07	0.03	----	----	

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North American Palladium Ltd.  
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PROPERTY LDI ZONE Roby HOLE # 00-205

LOGGED BY: B. Nelson SIGNATURE \_\_\_\_\_

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS							
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	NI %	Co %	
288.90	298.10		<b>GABBRO (continued)</b> 294.70 - 295.35m Intermediate dike - very fine grained, light greenish-grey, very hard, not magnetic and cut by 10% thread-like erratic feldspathic stringers No visible sulfides Sharp contact at 294.7m at 35° to core axis Sharp contact at 295.35m at 30° to core axis																
298.10	339.95	<b>MELANOGABBRO</b> Medium grained, dark greenish-grey, hard and weak to moderately magnetic 25-60% Opx, 10-25% Cpx?, 20-35% Plag Moderate to strong alteration of Opx and Cpx Moderate alteration of Plag Local strong black chlorite Locally get sub-sections containing brown equant Opx and sub-sections containing brown equant Opx plus shiny-grey intensely altered tremolitic Opx to very locally shiny-grey tremolitic Opx plus black chlorite (altered Cpx) Very local minor fine grained disseminated pyrite plus associated chalcopyrite Local strong black chlorite on fracture surfaces 325.85 - 326.75m Narrow (2mm to 5mm) scale serpentine - carbonate? stringer sub-parallel core axis, very soft plus possible talc? 336.50 - 339.95m Strong to intense alteration, quite strong erratic fracturing over sub-section Moderate to strong matrix and fractures containing black chlorite		2	3			104	298.10	300.00	1.90	nil		<0.07	<0.07	<0.03	----	----	
				2	3			105	300.00	303.00	3.00	nil		<0.07	<0.07	<0.03	----	----	
				2	3			106	303.00	306.00	3.00	nil		<0.07	<0.07	<0.03	----	----	
				2	3			107	306.00	309.00	3.00	nil		<0.07	<0.07	<0.03	----	----	
				2	3			108	309.00	312.00	3.00	tr		0.21	<0.07	0.06	----	----	
				2	3			109	312.00	315.00	3.00	tr		0.14	<0.07	<0.03	----	----	
				2	3			110	315.00	318.00	3.00	nil		0.07	<0.07	<0.03	----	----	
				2	3			111	318.00	321.00	3.00	nil		<0.07	<0.07	<0.03	----	----	
				2	3			112	321.00	324.00	3.00	nil		<0.07	<0.07	<0.03	----	----	
			2	3			113	324.00	327.00	3.00	nil		<0.07	<0.07	<0.03	----	----		
			2	3			114	327.00	330.00	3.00	nil		<0.07	<0.07	<0.03	----	----		
			2	3			115	330.00	333.00	3.00	nil		<0.07	<0.07	<0.03	----	----		
			2	3			116	333.00	336.00	3.00	nil		<0.07	<0.07	<0.03	----	----		
			4	4			117	336.00	339.00	3.00	nil		<0.07	<0.07	<0.03	----	----		
			4	4			118	339.00	339.98	0.98	nil		<0.07	<0.07	<0.03	----	----		

# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-205

LOGGED BY: B. Nelson SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	NI %	Co %
298.10	339.95	<b>MELANOGABBRONORITE (continued)</b> Plag intensely altered/stained to medium buff-red to deep red --> iddingsite? No visible sulfides																
339.95	342.05	<b>FAULT ZONE</b> Fault zone filled with altered melanogabbonorite, quartz veining and fine grained diabase dikes Melanogabbonorite is intensely altered and locally strongly brecciated to sheared to locally intensely fractured with ground clayey core Shearing appears to be at moderate to low angle to core axis Quartz veining is intensely fractured and cut by 10-20% erratic mafic stringers Local patchy deep red staining/alteration --> iddingsite? No visible sulfides Contact at 339.95m at 50° to core axis Questionable contact at 342.05m at approx. 50° to core axis					119	339.95	342.05	2.10	nil		<0.07	<0.07	<0.03	----	----	
342.05	346.50	<b>DIABASE DIKES + MELANOGABBRONORITE</b> Diabase dikes are very fine grained to finer medium grained, grey, very hard and not magnetic, no visible sulfides Melanogabbonorite host - medium grained, dark greenish-grey moderately soft, weakly magnetic and strongly altered with no visible sulfides																
			3	3			120	342.05	343.90	1.85	nil		<0.07	<0.07	<0.03	----	----	
			3	3			121	343.90	346.50	2.60	nil		<0.07	<0.07	<0.03	----	----	

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PROPERTY LDI ZONE Roby HOLE # 00-205

LOGGED BY: B. Nelson

SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup> Bx Matrix				SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	NI %	Co %
342.05	346.50	<b>DIABASE DIKES + MELANOGABBRONORITE (continued)</b> 342.05 - 343.9m Intermixed gabbonorite and diabase 343.9 - 345.3m Altered melanogabbonorite, contact at 345.3m at very low angle to core axis 345.3 - 346.5m Diabase (Md) plus medium grained gabbonorite, sharp-wavy contacts at low angle to sub-parallel to core axis, red staining (iddingsite) associated with contact																
346.50	356.80	<b>MELANOGABBRONORITE</b> Medium grained, greenish-grey, moderately hard, and moderately magnetic, very local - very minor grey-buff quartz-Plag veinlets oriented at high angle to core axis 20-60% Opx, 10-40% Cpx? 20-35% Plag Strong alteration of Opx and Cpx (actinolite and chlorite) Moderate to strong alteration of Plag No visible sulfides Locally moderately fractured at various degrees to core axis	3	3			122	346.50	348.00	1.50	nil		<0.07	<0.07	<0.03	----	----	
			3	3			123	348.00	351.00	3.00	nil		0.14	<0.07	<0.03	----	----	
			3	3			124	351.00	354.00	3.00	nil		0.07	<0.07	<0.03	----	----	
			3	3			125	354.00	356.80	2.80	nil		0.21	<0.07	<0.03	----	----	
356.80	367.20	<b>GABBRO</b> Medium grained, greenish-grey, hard and not magnetic 50-65% Cpx, 35-50% Plag Moderate alteration of Cpx and Plag No sulfide mineralization Diffuse upper and lower contacts over a few cms	2	2			126	356.80	360.00	3.20	nil		<0.07	<0.07	<0.03	----	----	
			2	2			127	360.00	363.00	3.00	nil		<0.07	<0.07	<0.03	----	----	
			2	2			128	363.00	366.00	3.00	nil		<0.07	<0.07	<0.03	----	----	
			2	2			129	366.00	367.20	1.20	nil		<0.07	<0.07	<0.03	----	----	



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PROPERTY LDI ZONE Roby HOLE # 00-205

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METERAGE		DESCRIPTION	Bx Matrix				SAMPLES					ASSAYS					
FROM	TO		Alt <sup>n</sup>	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
367.20	376.00	<p><b>MAGNETIC BEARING NORITE / GABBRONORITE</b></p> <p>Medium grained, slightly greenish-grey, hard and strongly magnetic, local semi-massive magnetite layer 20-40% Opx, &lt;5-10% Cpx?, 35-60% Plag, 3-5% magnetite Moderately strong to strong alteration of Opx Strong alteration of Plag No visible sulfides Gradational contact at 376.0m over a few cms</p> <p>374.1 - 375.4m Semi-massive magnetite layer - composed of 50% magnetite, 25% Opx and 25% Plag, no visible sulfides Gradational contact at 374.1m Relatively sharp contact at 375.4m at 75 to 80° to core axis</p>															
			3	3		130	367.20	369.00	1.80	nil		<0.07	<0.07	<0.03	----	----	
			3	3		131	369.00	372.00	3.00	nil		<0.07	<0.07	<0.03	----	----	
			3	3		132	372.00	374.10	2.10	nil		<0.07	<0.07	<0.03	----	----	
			3	3		133	374.10	376.00	1.90	nil		0.07	<0.07	<0.03	----	----	
376.00	377.70	<p><b>MAGNETITE BEARING GABBRO</b></p> <p>Medium grained, greenish-grey, hard and strongly magnetic 60% Cpx and 40% Plag 1 to 2% fine grained disseminated magnetite No visible sulfides Moderate alteration of Cpx and Plag Sharp contact at 377.7m at 70° to core axis</p>															
			2	2		134	376.00	377.70	1.70	nil		0.07	<0.07	<0.03	----	----	

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North American Palladium Ltd.  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-205

LOGGED BY: B. Nelson SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
377.70	379.10		<b>DIABASE DIKE</b> Fine grained to medium grained, light to medium grey, hard, locally strongly magnetic and strongly locally banded at 40 to 70 to 90° to core axis No visible sulfides Gradational contact at 379.1m over 10-20cm Unit possibly not diabase but banded gneissic gabbro?	0	0			135	377.70	379.10	1.40	nil		<0.07	<0.07	<0.03	-----	-----
379.10	391.85	<b>MAGNETIC BEARING GABBRONORITE / NORITE</b> Medium grained, slightly brownish-greenish grey, very hard and strongly magnetic 30-50% Opx, <10-20% Cpx?, 35-50% Plag, 2-5% magnetite Strong alteration of Opx Strong alteration of Plag 2 to locally 5% fine grained disseminated to finer medium grained clustery magnetite Overall no sulfides to locally minor fine grained disseminated pyrite near top of sections 388.5 - 389.5m Intense fractured broken core --> looks drill induced --> not sheared, no evidence of fault --> spalled/fractured/curved relatively small pieces of core	3	3			136	379.10	381.00	1.90	1.00		0.28	<0.07	0.03	-----	-----	
			3	3			137	381.00	384.00	3.00	0.25		<0.07	<0.07	<0.03	-----	-----	
			3	3			138	384.00	387.00	3.00	nil		<0.07	<0.07	<0.03	-----	-----	
			3	3			139	387.00	390.00	3.00	nil		<0.07	<0.07	<0.03	-----	-----	
			3	3			140	390.00	391.85	1.85	nil		<0.07	<0.07	<0.03	-----	-----	

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LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-205

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METERAGE		DESCRIPTION	Bx Matrix				SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
391.85	454.30	<p><b>MAGNETITE GABBRO</b>                      Fine grained to medium grained, medium greenish-grey to dark greenish-grey, hard and strongly magnetic, very minor local white-grey erratic Plag rich stringers and veinlets locally with associated medium grained bleby epidote, section exhibits moderate variations in grain size, composition changes varies from sharp to diffuse, very local hint of Opx and locally rock more of a melanogabbro than gabbro                      35-65% Cpx, 35-65% Plag, 2-15% magnetite (locally up to 50% magnetite)                      Moderate to locally strong alteration of Cpx to actinolite                      Moderate to locally strong alteration of Plag                      Overall trace to minor sulfide mineralization predominantly as fine grained to finer medium grained disseminated pyrite plus locally associated finer medium grained bleby chalcopyrite, very local coarse grained blebby pyrrhotite</p>	2	2			141	391.85	394.00	2.15	nil		<0.07	<0.07	<0.03	----	----	
			2	2			142	394.00	396.00	2.00	nil		0.07	<0.07	<0.03	----	----	
			2	2			143	396.00	399.00	3.00	nil		<0.07	<0.07	<0.03	----	----	
			2	2			144	399.00	402.00	3.00	0.25		0.07	<0.07	<0.03	----	----	
			2	2			145	402.00	405.00	3.00	0.50		<0.07	<0.07	<0.03	----	----	
			2	2			146	405.00	408.00	3.00	0.50		<0.07	<0.07	<0.03	----	----	
			2	2			147	408.00	411.00	3.00	0.50		0.07	<0.07	<0.03	----	----	
			2	2			148	411.00	414.00	3.00	0.25		<0.07	<0.07	<0.03	----	----	
			2	2			149	414.00	417.00	3.00	nil		<0.07	<0.07	<0.03	----	----	
			2	2			150	417.00	420.00	3.00	nil		0.14	<0.07	<0.03	----	----	
			2	2			151	420.00	423.00	3.00	tr		0.07	<0.07	<0.03	----	----	
			2	2			152	423.00	426.00	3.00	0.50		0.21	<0.07	<0.03	----	----	
			2	2			153	426.00	429.00	3.00	0.25		0.14	<0.07	<0.03	----	----	
			2	2			154	429.00	432.25	3.25	nil		<0.07	<0.07	<0.03	----	----	
							155	432.25	435.00	2.75	nil		<0.07	<0.07	<0.03	----	----	
							156	435.00	436.65	1.65	0.25		<0.07	<0.07	<0.03	----	----	
		2	2			157	436.65	439.00	2.35	0.25		0.14	<0.07	<0.03	----	----		
		2	2			158	439.00	441.00	2.00	0.25		0.28	<0.07	0.03	----	----		
		2	2			159	441.00	444.00	3.00	0.25		0.14	<0.07	<0.03	----	----		
		2	2			160	444.00	447.00	3.00	nil		<0.07	<0.07	<0.03	----	----		
		2	2			161	447.00	450.00	3.00	nil		<0.07	<0.07	<0.03	----	----		
		2	2			162	450.00	453.00	3.00	nil		<0.07	<0.07	<0.03	----	----		
		2	2			163	453.00	454.30	1.30	nil		0.21	<0.07	<0.03	----	----		

402.3 - 403.3m 30% 10 to 20cm scale fine grained diabase dikelets (fine grained gabbro?) plus 10% white Plag veining with associated medium grained epidote  
 At 403.3m 5mm to 2cm scale blebby pyrrhotite  
 426.7 - 428.7m Bleached gabbro/leucogabbro, strong slightly greenish-buff bleaching, composed of 70% Plag and 30% Cpx, moderately magnetic

# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-205

LOGGED BY: B. Nelson SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup> Bx Matrix				SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
391.85	454.30	<b>MAGNETITE GABBRO (continued)</b> 432.25 - 436.65m Diabase dike - very fine grained, grey to greenish-brownish staining/bleaching, very hard, strongly magnetic, lack of sulfide mineralization except for one 1cm wide massive pyrite stringer oriented at 20° to core axis Sharp contact at 432.25m at 40° to core axis Sharp contact at 436.60m at 30° to core axis 441.00 - 441.25m Massive magnetite layer - 80% magnetite																
454.30	460.95	<b>MAGNETITE MELANONORITE</b> Medium grained, grey to slightly greenish-grey, very hard and strongly magnetic 30-60% Opx, 20-30% Plag, 10-60% magnetite, <10% Cpx Moderate alteration of Opx and Plag Local minor medium grained blebby pyrrhotite 457.9 - 458.3m Quartz diorite/leucogabbro fragment?	2	2			164	454.30	456.00	1.70	tr	0.21	<0.07	<0.03	----	----		
			2	2			165	456.00	459.00	3.00	0.25	0.14	<0.07	<0.03	----	----		
			2	2			166	459.00	460.95	1.95	tr	0.14	<0.07	<0.03	----	----		
460.95	465.40	<b>MAGNETITE BEARING GABBRO</b> Fine grained to medium grained, greenish-grey, hard and moderate to strongly magnetic <10% Opx, 30-60% Cpx, 35-65% Plag, 2-5% magnetite Moderate to strong alteration of Cpx and Plag No visible sulfide mineralization Diffuse upper and lower contacts over a few cms	2	2			167	460.95	463.00	2.05	tr	0.07	<0.07	<0.03	----	----		
			2	2			168	463.00	465.40	2.40	tr	<0.07	<0.07	<0.03	----	----		

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LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-205

LOGGED BY: **B. Nelson** SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS							
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %	
465.40	483.45		<p><b>GABBRO</b></p> <p>Finer medium grained to medium grained, greenish-grey, moderately hard and locally moderately magnetic 40-65% Cpx, 35-60% Plag, locally 5-10% Opx Moderate alteration of Cpx and Plag No visible sulfide mineralization</p> <p>470.4 - 471.5m Quartz diorite dike, medium grained, white composed of 10-15% anhedral to lenticular medium grained to coarse grained black mafic crystals and clots (hornblende?) set in a medium grained quartz-Plag matrix, no sulfides Sharp contact at 410.4m at 70° to core axis Sharp contact at 471.5m at 60° to core axis</p> <p>478.8 - 480.3m Diabase dike - very fine grained, grey, hard, massive and moderately magnetic No sulfides Contact at 478.8m at 50° to core axis Contact at 480.3m at 30° to core axis</p>																
483.45	498.30	<p><b>GABBRONORITE</b></p> <p>Medium grained, greenish-grey, hard and moderately to strongly magnetic 20-40% Opx, 10-30% Cpx, 35-50% Plag Moderate to locally strong alteration of Opx and Cpx Moderate to strong alteration of Plag Gradational upper and lower contacts Locally becomes a magnetite bearing gabbronorite</p>	2	2			176	483.45	486.00	2.55	nil		0.07	<0.07	<0.03	-----	-----		
			2	2			177	486.00	489.00	3.00	nil		<0.07	<0.07	<0.03	-----	-----		
			2	2			178	489.00	492.00	3.00	nil		<0.07	<0.07	<0.03	-----	-----		
			2	2			179	492.00	495.00	3.00	nil		<0.07	<0.07	<0.03	-----	-----		
			2	2			180	495.00	498.30	3.30	nil		<0.07	<0.07	<0.03	-----	-----		

# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-205

LOGGED BY: B. Nelson SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>		SAMPLES						ASSAYS					
FROM	TO		Plag	Pxr	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
498.30	505.60	<b>MAGNETITE BEARING GABBRO</b> Medium grained, greenish-grey, hard and strongly magnetic 50-65% Cpx, 35-50% Plag, 2-5% magnetite Moderate alteration of Cpx and Plag No visible sulfides	2	2	181	498.30	501.00	2.70	nil		<0.07	<0.07	<0.03	----	----	
			2	2	182	501.00	504.00	3.00	nil		<0.07	<0.07	<0.03	----	----	
			2	2	183	504.00	505.60	1.60	nil		<0.07	<0.07	<0.03	----	----	
505.60	510.00	<b>MAGNETITE MELANOGABBRO</b> Medium grained, dark grey, hard and strongly magnetic 30-50% Opx, 10-20% Cpx, 20-35% Plag, 10-20% magnetite Moderate alteration of Cpx and Plag No visible sulfides  507.6 - 508.4m Strong shearing at 30 to 40° to core axis Strong chlorite on shear-fracture planes Intensely altered shear --> local almost ground clayey core along shear fractures  At 508.4m 5cm wide white quartz vein trends parallel to shearing	2	3	184	505.60	508.40	2.80	nil		0.14	<0.07	<0.03	----	----	
			2	3	185	508.40	510.00	1.60	nil		0.07	<0.07	<0.03	----	----	
510.00	525.05	<b>MAGNETITE GABBRONORITE</b> Medium grained to finer medium grained, medium to dark grey, hard and strongly magnetic 10-30% Opx, 10-50% Cpx, 35-50% Plag, 5-50% magnetite Moderate alteration of Opx, Cpx and Plag, very local strongly altered No visible sulfides  522.10 - 525.05m 50% magnetite, locally banded at 80° to core axis	2	2	186	510.00	513.00	3.00	nil		0.07	<0.07	<0.03	----	----	
			2	2	187	513.00	516.00	3.00	nil		<0.07	<0.07	<0.03	----	----	
			2	2	188	516.00	519.00	3.00	nil		<0.07	<0.07	<0.03	----	----	
			2	2	189	519.00	522.00	3.00	nil		<0.07	<0.07	<0.03	----	----	
			2	2	190	522.00	525.05	3.05	nil		<0.07	<0.07	<0.03	----	----	

# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.  
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PROPERTY LDI ZONE Roby HOLE # 00-205

LOGGED BY: B. Nelson SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
525.05	540.00	<b>GABBRONORITE</b> Predominantly medium grained to locally fine grained, slightly greenish-grey, hard and moderately to strongly magnetic 10-40% Opx, 10-50% Cpx, 35-50% Plag Moderate to locally strong alteration of Opx and Cpx, Moderate to locally strong alteration of Plag No visible sulfide mineralization Local strong black chlorite on fractures 539.0 - 539.4m Intensely fractured core --> looks drill induced	2	2			191	525.05	528.00	2.95	nil		<0.07	<0.07	<0.03	----	----	
			2	2			192	528.00	531.00	3.00	nil		<0.07	<0.07	<0.03	----	----	
			2	2			193	531.00	534.00	3.00	nil		<0.07	<0.07	<0.03	----	----	
			2	2			194	534.00	537.00	3.00	nil		0.28	<0.07	0.03	----	----	
			2	2			195	537.00	540.00	3.00	nil		0.07	<0.07	<0.03	----	----	
540.00	626.90	<b>GABBRO</b> Medium grained, greenish-grey, hard and predominantly not magnetic to locally moderately magnetic, local minor erratic white-grey quartz-Plag stringers, veinlets and veins and very local grey quartz veinlets, overall section is relatively equigranular, locally finer medium grained to fine grained, local minor epidote associated with quartz-Plag veinlets 35-65% Cpx, 35-65% Plag Moderate alteration of Cpx to actinolite Moderate alteration of Plag Very local minor sulfide mineralization as medium grained disseminated pyrite associated with quartz veining Very local minor (<5%) Opx Very local weakly foliated/banded at 70° to core axis Diffuse contact at 626.9m	2	2			196	540.00	543.00	3.00	nil		<0.07	<0.07	<0.03	----	----	
			2	2			197	543.00	546.00	3.00	nil		0.35	0.07	<0.03	----	----	
			2	2			198	546.00	549.00	3.00	nil		<0.07	<0.07	<0.03	----	----	
			2	2			199	549.00	552.00	3.00	nil		<0.07	<0.07	<0.03	----	----	
			2	2			200	552.00	555.00	3.00	nil		<0.07	<0.07	<0.03	----	----	
			2	2			201	555.00	558.00	3.00	nil		<0.07	<0.07	<0.03	----	----	
			2	2			202	558.00	561.00	3.00	nil		<0.07	<0.07	<0.03	----	----	
			2	2			203	561.00	564.00	3.00	tr		<0.07	<0.07	<0.03	----	----	
			2	2			204	564.00	567.00	3.00	nil		<0.07	<0.07	<0.03	----	----	
			2	2			205	567.00	570.00	3.00	nil		<0.07	<0.07	<0.03	----	----	
			2	2			206	570.00	573.00	3.00	nil		<0.07	<0.07	<0.03	----	----	
			2	2			207	573.00	576.00	3.00	nil		0.07	<0.07	<0.03	----	----	
			2	2			208	576.00	579.00	3.00	nil		0.14	<0.07	<0.03	----	----	
			2	2			209	579.00	582.00	3.00	nil		0.14	<0.07	<0.03	----	----	
			2	2			210	582.00	585.00	3.00	nil		0.14	<0.07	<0.03	----	----	
		2	2			211	585.00	588.00	3.00	nil		0.07	<0.07	<0.03	----	----		





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LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-205

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METERAGE		DESCRIPTION	Alt <sup>n</sup> Bx Matrix				SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	NI %	Co %
626.90	640.90	<b>MELANOGABBRO</b> Fine grained to medium grained, dark greenish-grey, hard and moderately magnetic, local minor white-grey erratic quartz-Plag veinlets 70-85% Cpx, 15-30% Plag Moderate alteration of Cpx to actinolite Moderate altered of Plag Local trace fine grained disseminated pyrite Gradational upper and lower contacts 632.35 - 632.55m Vugy contorted grey-white quartz vein, host rock along vein contacts pitted to vugy	2	2			225	626.90	630.00	3.10	tr		0.07	<0.07	<0.03	----	----	
			2	2			226	630.00	633.00	3.00	tr		0.07	<0.07	<0.03	----	----	
			2	2			227	633.00	636.00	3.00	tr		<0.07	<0.07	<0.03	----	----	
			2	2			228	636.00	639.00	3.00	tr		<0.07	<0.07	<0.03	----	----	
			2	2			229	639.00	640.90	1.90	tr		0.07	<0.07	<0.03	----	----	
640.90	646.40	<b>GABBRONORITE / NORITE</b> Medium grained, slightly brownish-greenish-grey, very hard and strongly magnetic 30-50% Opx, <10-30% Cpx?, 40-50% Plag Moderate alteration of Opx and Cpx Moderate to locally strong alteration of Plag --> locally Plag crystals slightly reddish-brownish grey No visible sulfide mineralization	2	2			230	640.90	643.00	2.10	nil		<0.07	<0.07	<0.03	----	----	
			2	2			231	643.00	645.00	2.00	nil		0.07	<0.07	<0.03	----	----	
			2	2			232	645.00	646.40	1.40	nil		<0.07	<0.07	<0.03	----	----	
646.40	666.60	<b>GABBRO</b> Medium grained, slightly brownish-greenish grey, hard and weak to moderately magnetic 50-65% Cpx, 35-50% Plag Moderate alteration of Cpx	2	2			233	646.40	648.00	1.60	tr		<0.07	<0.07	<0.03	----	----	
			2	2			234	648.00	651.00	3.00	tr		<0.07	<0.07	<0.03	----	----	
			2	2			235	651.00	654.00	3.00	tr		<0.07	<0.07	<0.03	----	----	
			2	2			236	654.00	657.00	3.00	nil		<0.07	<0.07	<0.03	----	----	

# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-205

LOGGED BY: B. Nelson SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup> Bx Matrix				SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
646.44	666.60	<b>GABBRO (continued)</b> Moderate to strong alteration of Plag, strongly altered Plag is brownish-grey Trace fine grained disseminated pyrite Local minor blebby/patchy epidote associated with quartz stringers Very local weak shearing (over approx. 10cm) at 35° to core axis	2	2			237	657.00	660.00	3.00	nil		0.14	0.07	<0.03	----	----	
			2	2			238	660.00	663.00	3.00	nil		0.07	<0.07	<0.03	----	----	
			2	2			239	663.00	665.00	2.00	nil		0.14	<0.07	<0.03	----	----	
			2	2			240	665.00	666.60	1.60	nil		0.07	<0.07	<0.03	----	----	
666.60	684.75	<b>GABBRO</b> Medium grained, greenish-grey, hard equigranular and not magnetic, local minor medium grained epidote, minor erratic white-grey quartz-Plag stringers, veinlets and veins 35-50% Cpx, 50-65% Plag Weak to locally moderate alteration of Cpx to actinolite Weak alteration of Plag Local trace fine grained disseminated pyrite Contact at 684.75m at 25-30° to core axis 675.1 - 675.3m Quartz-Plag vein/dike - creamy grey to slightly greenish, moderate epidote Irregular upper and lower contacts 683.50 - 684.75m Strong reddish staining of Plag (K-spar/iddingsite alteration?) and locally blocky	1	1			241	666.60	669.00	2.40	nil		0.07	<0.07	<0.03	----	----	
			1	1			242	669.00	672.00	3.00	nil		0.07	<0.07	<0.03	----	----	
			1	1			243	672.00	675.00	3.00	nil		0.07	<0.07	<0.03	----	----	
			1	1			244	675.00	678.00	3.00	nil		0.07	<0.07	<0.03	----	----	
			1	1			245	678.00	681.00	3.00	nil		<0.07	<0.07	<0.03	----	----	
			1	1			246	681.00	683.00	2.00	nil		<0.07	<0.07	<0.03	----	----	
			1	1			247	683.00	684.75	1.75	nil		0.07	<0.07	<0.03	----	----	



# DIAMOND DRILL CORE LOGGING SHEETS

PROPERTY LDI ZONE Roby HOLE # 00-205

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METERAGE		DESCRIPTION	Alt <sup>n</sup>				Bx Matrix					SAMPLES							ASSAYS					
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %						
688.60	704.70	<b>MAGNETITE MELANOGABBRO (continued)</b> Weak to moderate alteration of Plag No visible sulfide mineralization 703.45 - 704.35m Magnetite layer/band 60-70% magnetite Gradational/graded upper and lower contacts																						
704.70	710.10	<b>GABBRO</b> Medium grained, greenish-grey, hard and not magnetic to locally moderately magnetic with very local strongly magnetic band/layer, one-1m section of gabbronorite 40-60% Cpx, 40-60% Plag Moderate alteration of Cpx to actinolite Moderate alteration of Plag Very local trace fine grained disseminated pyrite Sharp contact at 704.7m at 70° to core axis Gradational contact at 710.1m 707.7 - 708.5m Gabbronorite 708.9 - 709.4m Diorite dike (leucogabbro) 15% 1 to 3mm scale anhedral mafic crystals set in medium grained Plag rich ground, mass Contact at 709.4m at 40° to core axis marked by strong chlorite 709.4 - 709.7m Moderate foliation/shearing at 40° to core axis Strong black chlorite Minor fine grained disseminated pyrite																						
			2	2			256	704.70	707.70	nil		<0.07	<0.07	<0.03	----	----								
			2	2			257	707.70	710.10	tr		0.28	<0.07	<0.03	----	----								

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PROPERTY LDI ZONE Roby HOLE # 00-205

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METERAGE		DESCRIPTION	Alt <sup>n</sup> Bx Matrix				SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
710.10	717.00	<b>MELANOGABBRONORITE</b> Medium grained, greenish-grey, moderately soft and locally not magnetic to strongly magnetic, overall quite strongly fractured-broken core, commonly strong chlorite plus serpentine? Coating fracture surfaces, fracturing very erratic at various degrees to core axis 10-50% Opx, 10-50% Cpx, 15-35% Plag Moderate to local strong alteration of Opx and Cpx Moderate alteration of Plag No visible sulfide mineralization Local strong magnetite --> up to 5% disseminated magnetite Gradational upper and lower contacts	2	2			258	710.10	713.00	2.90	nil		<0.07	<0.07	<0.03	----	----	
			2	2			259	713.00	715.00	2.00	nil		0.07	<0.07	<0.03	----	----	
			2	2			260	715.00	717.00	2.00	nil		<0.07	<0.07	<0.03	----	----	
717.00	731.10	<b>MELANOGABBRO</b> Medium grained to finer medium grained, greyish-green, moderately soft to soft and not magnetic near top of section increasingly magnetic downhole through section 75-90% Cpx, 10-25% Plag Moderate to strong alteration of Cpx to actinolite and chlorite Moderate alteration of Plag No visible sulfide mineralization 724.30 - 725.15m Gabbronorite - gradational upper and lower contacts 727.5 - 728.6m Gabbronorite - gradational upper and lower contacts	2	3			261	717.00	720.00	3.00	nil		<0.07	<0.07	<0.03	----	----	
			2	3			262	720.00	723.00	3.00	nil		<0.07	<0.07	<0.03	----	----	
			2	2			263	723.00	726.00	3.00	nil		<0.07	<0.07	<0.03	----	----	
			2	3			264	726.00	729.00	3.00	nil		<0.07	<0.07	<0.03	----	----	
			2	2			265	729.00	731.10	2.10	nil		<0.07	<0.07	<0.03	----	----	



# DIAMOND DRILL CORE LOGGING SHEETS

North American **Palladium Ltd.**  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-205

LOGGED BY: **B. Nelson** SIGNATURE \_\_\_\_\_

METERAGE		DESCRIPTION	SAMPLES					ASSAYS										
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	NI %	Co %
743.90	753.85	<b>GABBRO</b> Medium grained to coarse grained to very coarse grained (almost pegmatitic), greenish-grey, moderately hard and not magnetic, local moderate patchy to veiny epidote 40-65% Cpx, 35-60% Plag Moderate alteration of Cpx to actinolite Weak to moderate alteration of Plag Minor to locally 0.5% fine grained to medium grained blebby chalcopyrite Gradational contact at 753.85m 745.4 - 745.9m Fractured core, looks drill-induced	2	2			272	743.90	747.00	3.10	0.25		0.35	0.14	<0.03	----	----	
			2	2			273	747.00	750.00	3.00	0.50		0.56	0.07	<0.03	----	----	
			2	2			274	750.00	752.00	2.00	tr		0.28	<0.07	<0.03	----	----	
			2	2			275	752.00	753.85	1.85	0.50		0.28	<0.07	<0.03	----	----	
753.85	764.75	<b>MAGNETITE BEARING GABBRO</b> Medium grained, greenish-grey, hard and moderately to strongly magnetic, 1 to 5% fine grained disseminated magnetite to locally 50% magnetite over 1.0m 40-65% Cpx, 35-60% Plag Moderate alteration of Cpx to actinolite Moderate alteration of Plag Trace to local minor sulfide mineralization as fine grained disseminated pyrite with local associated medium grained blebby chalcopyrite 760.1 - 761.1m Magnetite rich layer, 50% magnetite Gradational upper and lower contacts	2	2			276	753.85	756.00	2.15	0.25		<0.07	<0.07	<0.03	----	----	
			2	2			277	756.00	759.00	3.00	0.25		0.07	<0.07	<0.03	----	----	
			2	2			278	759.00	762.00	3.00	tr		0.14	<0.07	<0.03	----	----	
			2	2			279	762.00	764.75	2.75	nil		0.07	<0.07	<0.03	----	----	

# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-205

LOGGED BY: B. Nelson SIGNATURE \_\_\_\_\_

METERAGE		DESCRIPTION	Bx Matrix				SAMPLES					ASSAYS								
FROM	TO		Alt <sup>n</sup>	Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %	
764.75	771.90	<b>MAGNETITE BEARING GABBRONORITE</b> Finer medium grained to medium grained, greenish-grey, moderately soft and strongly magnetic, very locally 20% magnetite, moderate to strong fracturing sub-parallel to core axis to various degrees to core axis towards bottom of section 10-20% Opx, 20-40% Cpx, 35-50% Plag, 1-3% magnetite (locally 20% magnetite) Moderate to strong alteration of Cpx and Opx Moderate alteration of Plag Local strong black chlorite predominantly on fracture surfaces No visible sulfide mineralization		2				280	764.75	767.00	2.25	nil		0.14	<0.07	<0.03	----	----		
					2				281	767.00	770.00	3.00	nil		0.14	<0.07	<0.03	----	----	
					2				282	770.00	771.90	1.90	nil		<0.07	<0.07	<0.03	----	----	
771.90	784.50	<b>MAGNETITE BEARING GABBRO</b> Medium grained, greenish-grey, moderately soft and moderately to strongly magnetic, local weak patchy epidote 50-65% Cpx, 35-50% Plag, 1-3% magnetite Moderate alteration of Cpx to actinolite Moderate alteration of Plag Very local narrow sub-section containing minor Opx		2				283	771.90	774.00	2.10	nil		<0.07	<0.07	<0.03	----	----		
					2				284	774.00	777.00	3.00	nil		<0.07	<0.07	<0.03	----	----	
					2				285	777.00	780.00	3.00	nil		<0.07	<0.07	<0.03	----	----	
					2				286	780.00	783.00	3.00	nil		<0.07	<0.07	<0.03	----	----	
					2				287	783.00	784.50	1.50	nil		0.07	<0.07	<0.03	----	----	



# DIAMOND DRILL CORE LOGGING SHEETS

North American **Palladium Ltd.**  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-205

LOGGED BY: **B. Nelson** SIGNATURE

METERAGE		DESCRIPTION	Bx Matrix				SAMPLES					ASSAYS							
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %	
784.50	786.80	<b>MELANOGABBRONORITE</b> Medium grained, dark greenish-grey, hard and moderately magnetic 70-90% Cpx, 10-30% Plag Strong alteration of Opx and Cpx Moderate alteration of Plag No visible sulfides Gradational upper and lower contacts	2	3			288	784.50	786.80	2.30	nil		<0.07	<0.07	<0.03	-----	-----		
786.80	803.40		<b>MAGNETITE BEARING MELANOGABBRO</b> Medium grained, greenish-grey, moderately hard to hard and strongly magnetic, local minor erratic white-grey quartz-Plag stringers and veinlets 65-85% Cpx, 15-35% Plag, 1-5% magnetite (locally up to 10% magnetite) Moderate alteration of Cpx to actinolite Moderate alteration of Plag No visible sulfide mineralization Local strong chlorite on fracture surfaces At 791.0m Diabase dikelet - 10cm wide - upper and lower contacts at 70° to core axis	2	2			289	786.80	789.00	2.20	nil		<0.07	<0.07	<0.03	-----	-----	
				2	2			290	789.00	792.00	3.00	nil		<0.07	<0.07	<0.03	-----	-----	
				2	2			291	792.00	795.00	3.00	nil		<0.07	<0.07	<0.03	-----	-----	
				2	2			292	795.00	798.00	3.00	nil		0.07	<0.07	<0.03	-----	-----	
				2	2			293	798.00	801.00	3.00	nil		0.14	<0.07	<0.03	-----	-----	
							294	801.00	803.40	2.40	nil		0.14	<0.07	<0.03	-----	-----		

# DIAMOND DRILL CORE LOGGING SHEETS

PROPERTY LDI ZONE Roby HOLE # 00-205

LOGGED BY: B. Nelson SIGNATURE \_\_\_\_\_

METERAGE		DESCRIPTION	Bx Matrix				SAMPLES					ASSAYS					
FROM	TO		Alt <sup>n</sup>	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
			Plag	Pxr													
803.40	909.00	<b>GABBRO (East Gabbro)</b> Medium grained, greenish-grey, hard, equigranular and locally moderately magnetic, local minor white-grey quartz-Plag stringers and veinlets predominantly oriented at high angle to core axis 35-50% Cpx, 50-65% Plag Weak to locally moderate alteration of Cpx to actinolite Weak to locally moderate alteration of Plag No visible sulfide mineralization	1			295	803.40	805.00	1.60	nil		<0.07	<0.07	<0.03	----	----	
			1			296	805.00	807.00	2.00	nil		<0.07	<0.07	<0.03	----	----	
			1			297	807.00	810.00	3.00	nil		<0.07	<0.07	<0.03	----	----	
			1			298	810.00	813.00	3.00	nil		<0.07	<0.07	<0.03	----	----	
			1			299	813.00	816.00	3.00	nil		<0.07	<0.07	<0.03	----	----	
			1			300	816.00	819.00	3.00	nil		<0.07	<0.07	<0.03	----	----	
			1			301	819.00	822.00	3.00	nil		<0.07	<0.07	<0.03	----	----	
			1			302	822.00	825.00	3.00	nil		<0.07	<0.07	<0.03	----	----	
			1			303	825.00	828.00	3.00	nil		<0.07	<0.07	<0.03	----	----	
		861.50 - 862.75m Gabbroic dike - medium grained	2			304	828.00	831.00	3.00	nil		<0.07	<0.07	<0.03	----	----	
		Contact at 861.5m at 45° to core axis	2			305	831.00	834.00	3.00	nil		<0.07	<0.07	<0.03	----	----	
		Contact at 862.75m at 60° to core axis	2			306	834.00	837.00	3.00	nil		<0.07	<0.07	<0.03	----	----	
		862.75 - 871.40m Diabase dike - very fine grained, dark grey, hard, not magnetic near top of unit to moderately magnetic within lower half of unit	2			307	837.00	840.00	3.00	nil		<0.07	<0.07	<0.03	----	----	
		Local weak porphyritic texture defined by local 10% 2mm to 1cm scale anhedral Plag phenocrysts	2			308	840.00	843.00	3.00	nil		<0.07	<0.07	<0.03	----	----	
		5% very narrow thread-like feldspathic stringers predominantly oriented at 40° to core axis	1			309	843.00	846.00	3.00	nil		<0.07	<0.07	<0.03	----	----	
		Local minor 5 to 10cm scale gabbro inclusions	1			310	846.00	849.00	3.00	nil		0.07	<0.07	<0.03	----	----	
		Local minor pyrite as fine grained disseminations and pyrite stringers and veinlets	1			311	849.00	852.00	3.00	nil		0.07	<0.07	<0.03	----	----	
		Sharp contact at 871.4m at 40° to core axis	1			312	852.00	855.00	3.00	nil		0.07	<0.07	<0.03	----	----	
			1			313	855.00	858.00	3.00	nil		0.14	<0.07	<0.03	----	----	
			1			314	858.00	861.00	3.00	nil		0.14	<0.07	<0.03	----	----	
			1			315	861.00	862.75	1.75	nil		<0.07	<0.07	<0.03	----	----	
			0			316	862.75	865.00	2.25	0.25		<0.07	<0.07	<0.03	----	----	
			0			317	865.00	867.00	2.00	0.25		<0.07	<0.07	<0.03	----	----	
			0			318	867.00	869.00	2.00	tr		<0.07	<0.07	<0.03	----	----	
			0			319	869.00	871.40	2.40	tr		<0.07	<0.07	<0.03	----	----	
			1			320	871.40	873.50	2.10	nil		<0.07	<0.07	<0.03	----	----	
			1			321	873.50	876.00	2.50	nil		<0.07	<0.07	<0.03	----	----	
			2			322	876.00	879.00	3.00	nil		<0.07	<0.07	<0.03	----	----	

# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-205

LOGGED BY: B. Nelson SIGNATURE

METERAGE		DESCRIPTION	Bx Matrix				SAMPLES					ASSAYS							
FROM	TO		Alt <sup>n</sup>	Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
803.40	909.00	<b>GABBRO (East Gabbro) (continued)</b> 882.4 - 886.0m 15% 5cm to 40cm scale diabase dikes Dikes cut by gabbro at 50 to 70° to core axis 892.4 - 894.3m Diabase dike - fine grained, hard, grey, moderately magnetic and Plag porphyritic Local minor gabbro inclusions Sharp irregular contact at 892.4m Sharp contact at 894.3m at 40° to core axis 898.2 - 903.85m Diabase Dike, fine grained, hard, grey, moderately magnetic and Plag porphyritic Local minor gabbro inclusions Sharp contact at 898.2 at 40° to core axis Sharp contact at 903.85 at 50° to core axis	2	2			323	879.00	882.00	3.00	nil		0.07	<0.07	<0.03	----	----		
			1	1			324	882.00	885.00	3.00	nil		0.07	<0.07	<0.03	----	----		
			1	1			325	885.00	888.00	3.00	nil		0.07	<0.07	<0.03	----	----		
			1	1			326	888.00	891.00	3.00	nil		0.07	<0.07	<0.03	----	----		
			1	1			327	891.00	892.40	1.40	nil		<0.07	<0.07	<0.03	----	----		
			1	1			328	892.40	895.30	2.90	nil		0.28	0.07	0.03	----	----		
			2	2			329	895.30	898.20	2.90	nil		<0.07	<0.07	<0.03	----	----		
							330	898.20	901.00	2.80	tr		<0.07	<0.07	<0.03	----	----		
							331	901.00	903.85	2.85	tr		0.07	<0.07	<0.03	----	----		
			1	1			332	903.85	906.00	2.15	nil		0.07	<0.07	<0.03	----	----		
			1	1			333	906.00	909.00	3.00	nil		0.21	<0.07	<0.03	----	----		
909.00	993.65		<b>GABBRO</b> Medium grained, greenish-grey, hard, not magnetic to very locally magnetic, overall minor 5mm to 10mm scale white-grey quartz-Plag stringers, veinlets and veins, very locally tending to composition of melanogabbro, local minor epidote 40-65% Cpx, 35-60% Plag Moderate alteration of Cpx to actinolite Weak to moderate alteration of Plag Essentially no sulfide mineralization Section composed of gabbro with minor composition and textural changes, not as homogeneous and equigranular as uphole unit Somewhat gradational contact over 10cm at 993.65m, weak foliation at 80° to core axis as approach contact	2	2			334	909.00	912.00	3.00	nil		0.14	<0.07	<0.03	----	----	
				2	2			335	912.00	915.00	3.00	nil		0.07	<0.07	<0.03	----	----	
				2	2			336	915.00	918.00	3.00	nil		0.14	<0.07	<0.03	----	----	
		2		2			337	918.00	921.00	3.00	nil		0.14	<0.07	<0.03	----	----		
		2		2			338	921.00	923.10	2.10	nil		0.14	<0.07	<0.03	----	----		
							339	923.10	925.20	2.10	5.00		<0.07	<0.07	<0.03	----	----		
		2		2			340	925.20	927.00	1.80	nil		0.14	<0.07	<0.03	----	----		
		2		2			341	927.00	930.00	3.00	nil		0.14	<0.07	<0.03	----	----		
		2		2			342	930.00	933.00	3.00	nil		0.14	<0.07	<0.03	----	----		
		2		2			343	933.00	936.00	3.00	nil		0.14	<0.07	<0.03	----	----		
		2		2			344	936.00	939.00	3.00	nil		0.14	<0.07	<0.03	----	----		
		2		2			345	939.00	942.00	3.00	nil		0.14	<0.07	<0.03	----	----		
		2		2			346	942.00	945.00	3.00	nil		0.14	<0.07	<0.03	----	----		
		2		2			347	945.00	948.00	3.00	nil		0.28	<0.07	<0.03	----	----		
		2		2			348	948.00	951.00	3.00	nil		0.35	<0.07	<0.03	----	----		



# DIAMOND DRILL CORE LOGGING SHEETS

PROPERTY LDI ZONE Roby HOLE # 00-205

LOGGED BY: B. Nelson SIGNATURE

METERAGE		DESCRIPTION	SAMPLES							ASSAYS							
FROM	TO		Alt <sup>n</sup>	Bx Matrix		No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
			Plag	Pxr	Com	Prop											
909.00	993.65	<b>GABBRO (continued)</b> 981.75 - 982.10m Plag vein/diorite dike Diffuse contact at 981.75m Sharp contact at 982.0m at 60° to core axis At 984.65m Diabase dikelet - moderately magnetic Sharp upper contact at 50° to core axis Sharp lower contact at 70° to core axis 985.3 - 985.7m Diabase dike - fine grained, grey, hard and moderately magnetic Sharp contact at 985.3m at 65° to core axis Sharp contact at 985.7m at 70° to core axis															
993.65	1002.90	<b>MAGNETITE MELANOGABBRO</b> Medium grained, dark greenish-grey, very hard and strongly magnetic, very locally very coarse grained - almost pegmatitic, locally weakly banded at 70° to core axis, overall 3 to 5% fine grained disseminated magnetite, local moderate medium grained epidote 70-85% Cpx, 15-30% Plag Moderate alteration of Cpx to actinolite Moderate alteration of Plag Overall 1% fine grained to medium grained disseminated pyrite, locally up to 3% pyrite over 10-20cm, very locally stringer to net-textured pyrite Sharp irregular contact at 1002.9m At 1000.9m Narrow (2cm wide) mini-shear Shearing at 30° to core axis	2	2			364	993.65	996.00	2.35	1.00	<0.07	<0.07	<0.03	----	----	
			2	2			365	996.00	999.00	3.00	1.00	<0.07	<0.07	<0.03	----	----	
			2	2			366	999.00	1001.50	2.50	1.00	<0.07	<0.07	<0.03	----	----	
			2	2			367	1001.50	1002.90	1.40	1.00	<0.07	<0.07	<0.03	----	----	

# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-205

LOGGED BY: B. Nelson SIGNATURE

METERAGE		DESCRIPTION	SAMPLES							ASSAYS							
FROM	TO		Alt <sup>n</sup>	Bx Matrix		No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
				Plag	Pxr												
1002.90	1086.00	<p><b>EAST GABBRO</b></p> <p>Medium grained, slightly greenish-grey, hard and not magnetic subtle variations in texture and composition, local minor medium grained epidote, very local very minor white-grey quartz-Plag stringers and veinlets, locally moderately foliated at 50° to core axis</p> <p>50-65% Cpx, 35-50% Plag Moderate alteration of Cpx to actinolite Weak to moderate alteration of Plag Trace to locally minor fine grained disseminated pyrite, very local medium grained disseminated pyrite</p> <p>At 1016.75m Quartz veinlet (3cm wide) trends at 40° to core axis, minor associated epidote</p> <p>1027.3 - 1027.5m Plag vein/diorite dike? Sharp contact at 1027.3m at 40° to core axis Weakly banded contact at 1027.5 at 50° to core axis</p> <p>1027.5 - 1031.1m Gabbro - greener and appears slightly more altered than surrounding gabbro</p> <p>1038.5 - 1038.9m 70% irregular 5 to 15cm pods of pyroxenite/melanogabbro and 30% gabbro Minor fine grained to medium grained pyrite, locally cubic, associated with pyroxenite/melanogabbro</p> <p>1047.3 - 1047.4m Creamy-buff Plag vein plus associated bleaching of gabbro</p> <p>At 1055.4m Narrow 5 to 10cm wide mini-breccia, small sub-rounded mafic fragments set in very hard, grey feldspathic cement --&gt; possibly narrow fault?</p>	2	2			368	1002.90	1005.00	2.10	tr		0.07	<0.07	<0.03	----	----
	EOH		2	2			369	1005.00	1008.00	3.00	tr		0.07	<0.07	<0.03	----	----
			2	2			370	1008.00	1011.00	3.00	tr		<0.07	<0.07	<0.03	----	----
			2	2			371	1011.00	1014.00	3.00	tr		0.07	<0.07	0.03	----	----
			2	2			372	1014.00	1017.00	3.00	0.25		0.14	<0.07	<0.03	----	----
			2	2			373	1017.00	1020.00	3.00	tr		<0.07	<0.07	<0.03	----	----
			2	2			374	1020.00	1023.00	3.00	tr		<0.07	<0.07	<0.03	----	----
			2	2			375	1023.00	1026.00	3.00	tr		<0.07	<0.07	<0.03	----	----
			2	2			376	1026.00	1029.00	3.00	tr		<0.07	<0.07	<0.03	----	----
			2	2			377	1029.00	1032.00	3.00	tr		<0.07	<0.07	<0.03	----	----
			2	2			378	1032.00	1035.00	3.00	tr		<0.07	<0.07	<0.03	----	----
			2	2			379	1035.00	1038.00	3.00	tr		0.07	<0.07	<0.03	----	----
			2	2			380	1038.00	1041.00	3.00	tr		<0.07	<0.07	<0.03	----	----
			2	2			381	1041.00	1044.00	3.00	tr		<0.07	<0.07	<0.03	----	----
			2	2			382	1044.00	1047.00	3.00	tr		<0.07	<0.07	<0.03	----	----
			2	2			383	1047.00	1050.00	3.00	tr		<0.07	<0.07	<0.03	----	----
			2	2			384	1050.00	1053.00	3.00	tr		<0.07	<0.07	<0.03	----	----
			2	2			385	1053.00	1056.00	3.00	tr		<0.07	<0.07	<0.03	----	----
			2	2			386	1056.00	1059.00	3.00	tr		<0.07	<0.07	<0.03	----	----
			2	2			387	1059.00	1062.00	3.00	tr		<0.07	<0.07	<0.03	----	----
		2	2			388	1062.00	1065.00	3.00	tr		<0.07	<0.07	<0.03	----	----	
		2	2			389	1065.00	1068.00	3.00	tr		<0.07	<0.07	<0.03	----	----	
		2	2			390	1068.00	1071.15	3.15	tr		<0.07	<0.07	<0.03	----	----	
		2	2			391	1071.15	1074.20	3.05	tr		<0.07	<0.07	<0.03	----	----	
		2	2			392	1074.20	1076.70	2.50	tr		<0.07	<0.07	<0.03	----	----	
						393	1076.70	1078.65	1.95	0.25		<0.07	<0.07	<0.03	----	----	
		2	2			394	1078.65	1080.60	1.95	tr		<0.07	<0.07	<0.03	----	----	
		2	2			395	1080.60	1083.00	2.40	tr		<0.07	<0.07	<0.03	----	----	
		2	2			396	1083.00	1086.00	3.00	tr		0.14	<0.07	0.03	----	----	









# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-205

LOGGED BY: B. Nelson SIGNATURE

METERAGE		DESCRIPTION	SAMPLES							ASSAYS								
FROM	TO		Alt <sup>n</sup>	Bx Matrix			No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
			Plag	Pxr	Com	Prop												
1098.00	1171.45	<b>HETEROLITHIC GABBRO BRECCIA (continued)</b>  1155.00m to 1155.40m: Late Mafic Dike: fine grained, equigranular, dark grey/black, sharp contacts at ~45-50° to core axis. 1168.90m to 1169.60m: Late Mafic Dike; very fine grained, black, magnetic, sharp contacts at 60° to core axis. Pyrite specks occasionally throughout.																
1171.45	1221.45	<b>HETEROLITHIC MELANOGABBRO BRECCIA</b>  Similar to the above breccia, however, there is a much higher % of matrix; contains gabbro and varitextured gabbro clasts set within a Melanogabbro matrix. Contacts between matrix and clasts are sharp. <u>Matrix:</u> Fine grained to finer medium grained, melanocratic. Difficult to determine mineralogy, but appears dark green, likely due to alteration of Cpx to amphibole. Plag 10-30%?, Cpx 70-90%? Occasional specks of sulphide typically pyrite. <u>Clasts:</u> Medium grained to pegmatitic, some are equigranular and some varitextured, all are dark green to white/grey in colour. Sulphide is sporadic, minor pyrite and chalcocopyrite. Cpx is partly altered to actinolite, dark green. Plag is moderate to strongly altered, bleach or saussuritized (green/yellow) Plag 45-60%, Cpx 40-55%. * Lower contact sharp at 80° to core axis. 1209.00-m to 1209.20m and 1210.30m to 1210.70m: Intermediate Dike, fine grained to medium grained, grey/beige, and white speckled. Contacts sharp at 40° to core axis.	2	3	Mgab	90	427	1171.45	1173.00	1.55	0.25	1:0	0.24	0.04	0.01	0.011	0.038	0.005
			2	3	Mgab	90	428	1173.00	1176.00	3.00	0.25	1:2	0.90	0.08	0.03	0.032	0.048	0.005
			2	3	Mgab	75	429	1176.00	1179.00	3.00	0.25	1:0	0.51	0.06	0.03	0.052	0.046	0.005
			3	3	Mgab	40	430	1179.00	1182.00	3.00			0.60	0.13	0.01	0.011	0.042	0.005
			2	3	Mgab	80	431	1182.00	1185.00	3.00			0.82	0.20	0.02	0.015	0.051	0.006
			2	3	Mgab	80	432	1185.00	1188.00	3.00	tr	py	0.49	0.15	0.01	0.008	0.045	0.005
			2	3	Mgab	30	433	1188.00	1191.00	3.00	tr		0.52	0.15	0.02	0.012	0.042	0.005
			2	3	Mgab	20	434	1191.00	1194.00	3.00	tr	py	0.30	0.09	0.01	0.011	0.034	0.004
			2	3	Mgab	60	435	1194.00	1197.00	3.00	tr	py	0.54	0.12	0.05	0.035	0.041	0.005
			2	3	Mgab	70	436	1197.00	1200.00	3.00	0.25	1:0	0.73	0.14	0.11	0.082	0.051	0.007
			2	3	Mgab	30	437	1200.00	1203.00	3.00			0.32	0.10	0.01	0.014	0.038	0.005
			3	3	Mgab	30	438	1203.00	1206.00	3.00			0.24	0.09	0.01	0.015	0.032	0.005
			3	3	Mgab		439	1206.00	1209.00	3.00			0.24	0.09	0.01	0.008	0.027	0.004
			2	3	Mgab	10	440	1209.00	1212.00	3.00			0.24	0.09	0.01	0.008	0.022	0.003
			2	3	Mgab	40	441	1212.00	1215.00	3.00	tr	py	0.21	0.07	0.01	0.011	0.028	0.004
			2	3	Mgab	60	442	1215.00	1218.00	3.00			0.20	0.06	0.02	0.013	0.034	0.004
			3	3	Mgab	40	443	1218.00	1221.45	3.45	tr	py	0.23	0.06	0.02	0.022	0.033	0.004

# DIAMOND DRILL CORE LOGGING SHEETS

PROPERTY LDI ZONE Roby HOLE # 00-205

LOGGED BY: B. Nelson SIGNATURE

METERAGE		DESCRIPTION	SAMPLES							ASSAYS								
FROM	TO		Alt <sup>n</sup>	X Matri		No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %	
			Plag	Pxr	Com	Prop												
1221.45	1248.00	<b>GABBRO</b>  Medium grained to coarse grained, dark green and white to white/green, moderately altered, orthocumulate/ophitic? Cpx is altered to dark green actinolite and chlorite? Plag is typically bleached white or saussuritized green/yellow, but some grey (unaltered) plag present. Opx nil, Cpx 40-50%; Plag 50-60%. Plag is cumulate, subhedral; cpx is intercumulate; almost "Popcorn" texture. Trace pyrite rarely seen as specks or interstitial blebs. Lower contact inferred (gradational) marked by appearance of tremolite/opx.  1235.40m to 1238.30m: Altered Gabbro, similar to surrounding Gabbro but strongly saussuritized and hematized. Alteration related to cross-cutting fractures/shears.	3	3			444	1221.45	1224.00	2.55			0.49	0.13	0.03	0.024	0.034	0.004
			3	3			445	1224.00	1227.00	3.00			0.36	0.11	0.02	0.007	0.028	0.004
			3	3			446	1227.00	1230.00	3.00			0.32	0.13	0.02	0.007	0.034	0.005
			3	3			447	1230.00	1233.00	3.00			0.44	0.12	0.03	0.015	0.037	0.004
			3	3			448	1233.00	1236.00	3.00			0.30	0.11	0.02	0.014	0.041	0.005
			4	4			449	1236.00	1239.00	3.00			0.25	0.11	0.02	0.007	0.025	0.003
			3	3			450	1239.00	1242.00	3.00			0.24	0.11	0.02	0.011	0.027	0.004
			3	3			451	1242.00	1245.00	3.00	0.25	py	0.26	0.07	0.04	0.037	0.048	0.005
			3	3			452	1245.00	1248.00	3.00	tr	py	0.18	0.06	0.02	0.018	0.034	0.005
1248.00	1293.00		<b>GABBRONORITE</b>  Unit is not as coarse grained as the above gabbro, and it often has partly-fresh opx crystals. The Opx grades in and out, but when absent some silver/white tremolite/talc is visible, resulting from alteration of Opx. Medium grained to dark brown green and grey/white, relatively equigranular, locally varitextured. Opx <10-45%, Cpx 5-35%? Plag 45-50%. Relatively barren of sulphide, only minor pyrite and rare chalcopyrite specks in a mafic dike.	2	2			453	1248.00	1251.00	3.00			0.30	0.13	0.01	0.006	0.032
		2		2			454	1251.00	1254.00	3.00			0.35	0.14	0.01	0.007	0.037	0.005
		2		2			455	1254.00	1255.80	1.80			0.35	0.15	0.02	0.006	0.041	0.005
							456	1255.80	1257.35	1.55	0.25	1:0	0.09	0.02	0.06	0.093	0.016	0.008
		2		3			457	1257.35	1260.00	2.65			0.32	0.11	0.04	0.024	0.037	0.005
		2		2			458	1260.00	1263.00	3.00			0.34	0.14	0.01	0.006	0.038	0.005
		2		2			459	1263.00	1266.00	3.00			0.34	0.13	0.01	0.009	0.037	0.005
		2		2			460	1266.00	1269.00	3.00			0.35	0.13	0.01	0.009	0.040	0.005
		2		2			461	1269.00	1272.00	3.00	tr	py	0.39	0.13	0.01	0.011	0.048	0.006
		2		2			462	1272.00	1275.00	3.00			0.40	0.12	0.01	0.011	0.051	0.006
		2		2			463	1275.00	1278.00	3.00			0.45	0.10	0.02	0.008	0.047	0.006
		2		3			464	1278.00	1280.00	2.00			0.67	0.15	0.02	0.008	0.052	0.006
		2		3			465	1280.00	1281.85	1.85			0.30	0.08	0.01	0.007	0.039	0.005
						466	1281.85	1283.10	1.25			0.04	0.01	0.00	0.013	0.005	0.001	





# ALS Chemex

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 P7B 6T9

Page Number :1-A  
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 Certificate Date: 03-AUG-2001  
 Invoice No. : I0121163  
 P.O. Number : 1000173  
 Account : MZI

2. 24642  
 Project: 033-00-205  
 Comments: ATTN: MOE LAVIGNE

## CERTIFICATE OF ANALYSIS A0121163

SAMPLE	PREP CODE	Pd ppb ICP-MS	Pt ppb ICP-MS	Au ppb ICP-MS	Al2O3 % Calc	Fe2O3 % Calc	MgO % Calc	Cu % calc.	Ni % calc.	Co % calc.	Fe % (ICP)	S % (ICP)	Ag ppm (ICP)	Al % (ICP)	As ppm (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)
00-205-STA-189	2143285	3200	285	290	15.45	6.29	8.87	0.1395	0.1500	0.0063	4.40	0.35	< 0.5	8.18	< 5	50	< 0.5	< 2	5.6	< 0.5
00-205-397	1388 276	92	19.0	11	19.50	4.03	3.18	0.0205	0.0164	0.0026	2.82	0.16	< 0.5	10.32	< 5	50	< 0.5	< 2	6.8	< 0.5
00-205-398	1388 276	140	20.5	15	20.0	5.06	4.58	0.0234	0.0213	0.0032	3.54	0.13	< 0.5	10.60	< 5	50	< 0.5	< 2	7.1	< 0.5
00-205-399	1388 276	270	24.5	4	19.70	3.53	3.00	0.0093	0.0130	0.0021	2.47	0.07	< 0.5	10.42	< 5	70	< 0.5	< 2	7.2	< 0.5
00-205-400	1388 294	>1000	705	230	8.54	9.49	14.85	0.1035	0.1630	0.0085	6.64	0.26	< 0.5	4.52	< 5	< 10	< 0.5	10	3.7	0.5
00-205-401	1388 226	7800	424	68	8.31	9.31	12.60	0.0442	0.1050	0.0075	6.51	0.38	< 0.5	4.40	< 5	30	< 0.5	10	4.1	< 0.5
00-205-401B	1388 226	145	9.0	5	12.65	9.04	7.88	0.0093	0.0107	0.0061	6.32	0.15	< 0.5	6.69	< 5	50	< 0.5	2	7.4	< 0.5
00-205-402	1388 276	>1000	826	1110	15.90	6.15	7.11	0.0530	0.1070	0.0050	4.30	0.26	< 0.5	8.42	< 5	90	< 0.5	2	5.5	< 0.5
00-205-403	1388 276	8100	516	630	15.40	7.22	6.77	0.1240	0.1480	0.0062	5.05	0.47	< 0.5	8.16	< 5	140	< 0.5	2	5.4	< 0.5
00-205-404	1388 276	1690	173.5	105	15.25	5.45	8.44	0.0325	0.0945	0.0052	3.81	0.15	< 0.5	8.08	< 5	50	< 0.5	2	5.6	< 0.5
00-205-405	1388 276	7400	351	300	15.45	5.65	8.54	0.0708	0.1035	0.0051	3.95	0.19	< 0.5	8.19	< 5	40	< 0.5	2	5.4	< 0.5
00-205-406	1388 276	5000	285	200	16.80	4.26	7.69	0.0534	0.0873	0.0041	2.98	0.14	< 0.5	8.88	< 5	80	< 0.5	4	5.9	< 0.5
00-205-407	1388 276	1920	104.0	105	12.05	6.32	11.85	0.0336	0.0725	0.0058	4.42	0.11	< 0.5	6.38	< 5	30	< 0.5	6	4.3	< 0.5
00-205-408	1388 276	950	64.5	82	14.20	6.92	8.27	0.0241	0.0460	0.0050	4.84	0.13	< 0.5	7.51	< 5	40	< 0.5	2	5.4	< 0.5
00-205-409	1388 276	2400	224	620	13.15	6.23	8.62	0.0786	0.1065	0.0055	4.36	0.26	< 0.5	6.96	< 5	30	< 0.5	6	4.7	< 0.5
00-205-410	1388 276	1500	156.0	290	13.05	5.36	10.45	0.0536	0.0912	0.0054	3.75	0.12	< 0.5	6.91	< 5	30	< 0.5	2	4.9	< 0.5
00-205-411	1388 276	>1000	543	360	16.90	5.00	7.36	0.0905	0.1650	0.0054	3.50	0.29	< 0.5	8.94	< 5	50	< 0.5	2	6.0	< 0.5
00-205-411B	1388 294	31	3.5	3	13.40	8.78	7.71	0.0071	0.0097	0.0052	6.14	0.15	< 0.5	7.08	< 5	60	< 0.5	4	7.3	< 0.5
00-205-412	1388 276	5400	387	300	12.10	6.02	10.65	0.1110	0.1710	0.0064	4.21	0.27	< 0.5	6.41	< 5	30	< 0.5	2	4.3	< 0.5
00-205-413	1388 276	4200	302	270	17.30	5.50	9.34	0.1170	0.1565	0.0057	3.85	0.30	< 0.5	9.16	< 5	30	< 0.5	2	6.0	< 0.5
00-205-414	1388 276	650	110.5	185	14.85	5.48	9.22	0.0709	0.1170	0.0053	3.83	0.18	< 0.5	7.85	< 5	30	< 0.5	2	5.3	< 0.5
00-205-415	1388 276	780	136.0	160	14.50	5.12	9.34	0.0534	0.0921	0.0050	3.58	0.14	< 0.5	7.68	< 5	30	< 0.5	< 2	5.1	< 0.5
00-205-416	1388 276	720	57.5	25	17.55	4.68	7.98	0.0056	0.0452	0.0038	3.27	0.04	< 0.5	9.30	< 5	50	< 0.5	< 2	6.2	< 0.5
00-205-417	1388 276	720	87.5	77	13.75	5.98	10.80	0.0215	0.0693	0.0055	4.18	0.07	< 0.5	7.27	< 5	30	< 0.5	2	5.2	< 0.5
00-205-418	1388 276	480	88.5	99	13.40	5.72	11.00	0.0286	0.0687	0.0053	4.00	0.07	< 0.5	7.08	< 5	50	< 0.5	4	4.8	< 0.5
00-205-419	1388 276	880	170.5	185	13.45	5.39	9.37	0.0468	0.0880	0.0050	3.77	0.12	< 0.5	7.11	< 5	40	< 0.5	4	5.0	< 0.5
00-205-420	1388 276	990	175.0	65	15.90	5.38	8.82	0.0181	0.0605	0.0046	3.76	0.06	< 0.5	8.41	< 5	80	< 0.5	2	5.4	< 0.5
00-205-421	1388 276	960	177.0	44	16.40	6.13	6.88	0.0303	0.0440	0.0044	4.29	0.12	< 0.5	8.67	< 5	90	< 0.5	< 2	5.8	< 0.5
00-205-422	1388 276	850	109.5	42	16.40	5.73	7.61	0.0338	0.0484	0.0047	4.01	0.11	< 0.5	8.68	< 5	80	< 0.5	< 2	5.9	< 0.5
00-205-423	1388 276	260	116.0	4	16.65	4.22	6.60	0.0034	0.0277	0.0033	2.95	0.03	< 0.5	8.81	< 5	40	< 0.5	< 2	6.3	< 0.5
00-205-424	1388 276	510	109.0	29	15.00	5.13	7.54	0.0274	0.0415	0.0042	3.59	0.09	< 0.5	7.95	< 5	30	< 0.5	< 2	6.1	< 0.5
00-205-425	1388 276	220	88.5	9	14.00	6.65	7.91	0.0109	0.0296	0.0045	4.65	0.09	< 0.5	7.42	< 5	100	< 0.5	4	5.4	< 0.5
00-205-426	1388 226	1140	103.0	18	14.35	6.05	8.46	0.0130	0.0527	0.0047	4.23	0.06	< 0.5	7.60	< 5	40	< 0.5	2	6.5	< 0.5
00-205-427	1388 226	240	40.5	14	14.55	5.69	8.94	0.0106	0.0381	0.0047	3.98	0.04	< 0.5	7.70	< 5	90	< 0.5	4	6.4	< 0.5
00-205-428	1388 294	900	75.0	25	14.55	5.36	7.28	0.0321	0.0484	0.0045	3.75	0.13	< 0.5	7.70	< 5	30	< 0.5	2	6.2	< 0.5
00-205-429	1388 294	510	63.0	31	17.30	5.48	8.22	0.0524	0.0459	0.0048	3.83	0.14	< 0.5	9.16	< 5	40	< 0.5	2	7.3	< 0.5
00-205-430	1388 294	600	125.0	12	14.50	5.49	8.59	0.0111	0.0423	0.0045	3.84	0.05	< 0.5	7.68	< 5	60	< 0.5	< 2	5.4	< 0.5
00-205-431	1388 294	820	198.5	17	10.20	6.96	11.55	0.0147	0.0512	0.0056	4.87	0.04	< 0.5	5.39	< 5	30	< 0.5	4	4.0	< 0.5
00-205-432	1388 294	490	154.0	9	9.28	6.52	10.70	0.0077	0.0445	0.0053	4.56	0.03	< 0.5	4.91	< 5	40	< 0.5	2	3.8	< 0.5
00-205-433	1388 294	520	149.5	21	12.35	6.63	9.75	0.0122	0.0417	0.0054	4.64	0.04	< 0.5	6.54	< 5	50	< 0.5	2	4.9	< 0.5

CERTIFICATION:



# ALS Chemex

Aurora Laboratory Services Ltd.  
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Page Number :2-A  
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 Certificate Date: 03-AUG-2001  
 Invoice No. :10121163  
 P.O. Number :1000173  
 Account :MZI

Project : #1033-00-205  
 Comments: ATTN: MOE LAVIGNE

## CERTIFICATE OF ANALYSIS A0121163

SAMPLE	PREP CODE		Pd ppb	Pt ppb	Au ppb	Al2O3	Fe2O3	MgO	Cu %	Ni %	Co %	Fe %	S %	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm
	ICP-MS	ICP-MS	ICP-MS	% Calc	% Calc	% Calc	calc.	calc.	calc.	calc.	calc.	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)
00-205-434	1388	294	300	86.5	14	14.95	5.43	7.35	0.0112	0.0342	0.0041	3.80	0.05	< 0.5	7.90	< 5	80	< 0.5	2	5.7	< 0.5
00-205-435	1388	294	540	117.5	54	14.15	7.66	7.35	0.0345	0.0407	0.0053	5.36	0.15	< 0.5	7.48	< 5	100	< 0.5	2	5.7	< 0.5
00-205-436	1388	294	730	135.5	105	12.45	9.99	9.45	0.0818	0.0507	0.0070	6.99	0.28	< 0.5	6.59	< 5	50	< 0.5	4	5.3	< 0.5
00-205-437	1388	294	320	101.5	13	13.20	6.95	9.43	0.0135	0.0380	0.0053	4.86	0.06	< 0.5	6.99	< 5	60	< 0.5	< 2	5.3	< 0.5
00-205-438	1388	294	240	89.5	14	14.95	7.32	7.86	0.0147	0.0324	0.0050	5.12	0.09	< 0.5	7.92	< 5	80	< 0.5	< 2	6.3	< 0.5
00-205-439	1388	294	240	92.0	5	16.70	5.38	7.06	0.0077	0.0267	0.0039	3.76	0.04	< 0.5	8.84	< 5	70	< 0.5	2	6.2	< 0.5
00-205-440	1388	294	240	87.0	7	19.55	4.12	5.02	0.0082	0.0217	0.0029	2.88	0.06	< 0.5	10.35	< 5	70	< 0.5	< 2	6.3	< 0.5
00-205-441	1388	294	210	71.5	11	16.45	5.49	6.47	0.0111	0.0278	0.0040	3.84	0.08	< 0.5	8.70	< 5	70	< 0.5	2	6.6	< 0.5
00-205-442	1388	294	200	60.0	15	16.95	6.09	7.51	0.0127	0.0344	0.0044	4.26	0.05	< 0.5	8.97	< 5	40	< 0.5	2	6.6	< 0.5
00-205-443	1388	294	230	56.0	23	17.50	6.32	6.88	0.0223	0.0330	0.0044	4.42	0.11	< 0.5	9.25	< 5	130	< 0.5	2	6.4	< 0.5
00-205-444	1388	294	490	128.5	26	18.35	5.89	6.70	0.0236	0.0341	0.0042	4.12	0.11	< 0.5	9.70	< 5	80	< 0.5	< 2	6.8	< 0.5
00-205-445	1388	276	360	109.5	17	18.75	5.09	7.05	0.0066	0.0280	0.0038	3.56	0.04	< 0.5	9.93	< 5	100	< 0.5	< 2	6.6	< 0.5
00-205-446	1388	276	320	129.0	21	16.00	6.16	8.56	0.0068	0.0338	0.0045	4.31	0.04	< 0.5	8.47	< 5	100	< 0.5	< 2	5.8	< 0.5
00-205-447	1388	276	440	123.5	27	18.60	5.88	8.22	0.0146	0.0369	0.0044	4.11	0.06	< 0.5	9.85	< 5	130	< 0.5	2	6.3	< 0.5
00-205-448	1388	276	300	111.5	23	17.45	6.49	9.87	0.0137	0.0406	0.0048	4.54	0.06	< 0.5	9.23	< 5	110	< 0.5	2	6.1	< 0.5
00-205-449	1388	276	250	106.0	17	17.50	4.48	6.02	0.0072	0.0254	0.0032	3.13	0.04	< 0.5	9.25	< 5	100	< 0.5	< 2	6.1	< 0.5
00-205-450	1388	276	240	105.5	16	18.85	5.20	6.95	0.0105	0.0266	0.0038	3.64	0.05	< 0.5	9.98	< 5	70	< 0.5	< 2	6.5	< 0.5
00-205-STA-190	2143	285	3300	304	280	14.20	6.73	9.35	0.1340	0.1505	0.0066	4.71	0.35	< 0.5	7.52	< 5	50	< 0.5	2	5.8	< 0.5

CERTIFICATION: \_\_\_\_\_



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.-EXPLORATION  
 NORTH AMERICAN PALLADIUM  
 P.O. BOX 10547  
 THUNDER BAY, ON  
 P7B 6T9

Page Number :1-A  
 Total Pages :1  
 Certificate Date:02-AUG-2001  
 Invoice No. :I0121225  
 P.O. Number :1000175  
 Account :MZI

Project : #1033-00-205  
 Comments: ATTN: MOE LAVIGNE

## CERTIFICATE OF ANALYSIS A0121225

SAMPLE	PREP CODE		Pd ppb	Pt ppb	Au ppb	Al2O3	Fe2O3	MgO	Cu %	Ni %	Co %	Fe %	S %	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm
	ICP-MS	ICP-MS	% Calc	% Calc	% Calc	% Calc	calc.	calc.	calc.	calc.	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)
00-205-451	1388	276	260	72.5	44	16.50	5.85	7.56	0.0372	0.0477	0.0045	4.09	0.12	< 0.5	8.72	< 5	40	< 0.5	< 2	7.0	< 0.5
00-205-452	1388	276	180	62.0	23	16.30	6.38	7.99	0.0179	0.0342	0.0046	4.46	0.06	< 0.5	8.62	< 5	50	< 0.5	2	6.9	< 0.5
00-205-453	1388	276	300	130.0	12	16.80	5.92	8.34	0.0064	0.0324	0.0044	4.14	0.04	< 0.5	8.90	< 5	50	< 0.5	< 2	6.2	< 0.5
00-205-454	1388	276	350	137.0	14	15.35	6.32	9.72	0.0070	0.0365	0.0048	4.42	0.04	< 0.5	8.12	< 5	30	< 0.5	2	5.8	0.5
00-205-455	1388	294	350	145.5	19	14.80	7.05	10.90	0.0059	0.0414	0.0053	4.93	0.04	< 0.5	7.84	< 5	40	< 0.5	2	5.5	0.5
00-205-456	1388	294	85	20.5	60	12.95	16.95	6.40	0.0927	0.0161	0.0079	11.86	0.38	< 0.5	6.86	< 5	40	< 0.5	< 2	6.3	< 0.5
00-205-457	1388	276	320	106.5	44	14.00	6.56	9.12	0.0239	0.0370	0.0050	4.59	0.10	< 0.5	7.40	< 5	40	< 0.5	2	5.6	< 0.5
00-205-458	1388	276	340	140.5	13	13.10	6.00	9.80	0.0061	0.0384	0.0047	4.20	0.04	< 0.5	6.92	< 5	30	< 0.5	2	5.2	< 0.5
00-205-459	1388	276	340	132.5	7	14.60	5.63	9.47	0.0087	0.0372	0.0045	3.94	0.05	< 0.5	7.74	< 5	60	< 0.5	2	5.6	< 0.5
00-205-460	1388	276	350	133.0	7	13.25	6.88	10.60	0.0087	0.0402	0.0052	4.81	0.05	< 0.5	7.01	< 5	40	< 0.5	2	5.2	< 0.5
00-205-461	1388	276	390	132.5	12	12.60	8.01	12.20	0.0111	0.0484	0.0059	5.60	0.04	< 0.5	6.67	< 5	70	< 0.5	2	5.0	< 0.5
00-205-462	1388	276	400	122.5	9	11.30	8.14	13.05	0.0110	0.0514	0.0063	5.69	0.05	< 0.5	5.97	< 5	100	< 0.5	6	4.6	< 0.5
00-205-463	1388	276	450	99.5	15	10.65	7.16	12.05	0.0076	0.0473	0.0057	5.01	0.05	< 0.5	5.64	< 5	180	< 0.5	4	4.1	< 0.5
00-205-464	1388	294	670	151.0	16	10.70	7.66	13.20	0.0076	0.0523	0.0061	5.36	0.05	< 0.5	5.67	< 5	30	< 0.5	6	4.3	2.0
00-205-465	1388	294	300	82.0	11	13.75	6.12	9.83	0.0069	0.0393	0.0047	4.28	0.04	< 0.5	7.28	< 5	120	< 0.5	2	5.2	< 0.5
00-205-466	1388	294	35	10.5	3	12.05	1.57	1.29	0.0127	0.0049	0.0008	1.10	0.02	< 0.5	6.39	< 5	100	0.5	< 2	1.50	< 0.5
00-205-467	1388	294	330	81.5	15	15.95	4.79	7.18	0.0082	0.0315	0.0034	3.35	0.05	< 0.5	8.44	< 5	110	< 0.5	< 2	5.1	< 0.5
00-205-468	1388	294	650	143.5	26	14.75	5.62	8.67	0.0098	0.0421	0.0044	3.93	0.06	< 0.5	7.81	< 5	60	< 0.5	2	5.3	< 0.5
00-205-469	1388	276	340	99.0	21	15.65	6.56	9.97	0.0107	0.0431	0.0050	4.59	0.06	< 0.5	8.27	< 5	50	< 0.5	6	5.7	< 0.5
00-205-470	1388	276	420	142.0	23	15.65	5.80	8.11	0.0147	0.0373	0.0043	4.06	0.07	< 0.5	8.28	< 5	50	< 0.5	2	5.7	< 0.5
00-205-STA-192	2143	285	3300	303	430	15.30	6.62	9.45	0.1320	0.1515	0.0066	4.63	0.36	< 0.5	8.11	< 5	70	< 0.5	2	5.9	0.5

CERTIFICATION: \_\_\_\_\_









# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-206

LOGGED BY: M. MacIsaac SIGNATURE \_\_\_\_\_

METERAGE		DESCRIPTION	SAMPLES							ASSAYS								
FROM	TO		Alt <sup>n</sup>		Bx Matrix		No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
			Plag	Pxr	Com	Prop												
106.40	118.75	<b>MELANOGABBRONORITE</b> Dark brownish grey-green - buff grey-green Medium grained 10-25% Plag, 15-50% Opx, 25-50% Cpx Moderately to strongly altered with Cpx to actinolite - tremolite, patchy chlorite alteration Moderately soft Moderately magnetic Feldspar phyric locally Relatively unmineralized Occasional tonalite dike Serpentine - chlorite along fractures, moderately fractured at 65° to core axis Sharp foliated lower contact at 48° to core axis	3	3			042	106.40	108.00	1.60	nil		0.02	0.00	0.00	NS	NS	
			3	3			043	108.00	111.00	3.00	nil		0.02	0.00	0.00	NS	NS	
			3	3			044	111.00	114.00	3.00	nil		0.03	0.00	0.00	NS	NS	
			3	3			045	114.00	117.00	3.00	nil		0.04	0.00	0.00	NS	NS	
			3	3			046	117.00	118.75	1.75	nil		0.15	0.01	0.01	NS	NS	
118.75	144.90	<b>NORITE</b> Medium grained Brownish red 50% Plag, 30-50% Opx, 0-20% Cpx Moderately to strongly altered with Plag to brownish red, Cpx to actinolite Moderately magnetic Local serpentine along fractures Unit is mainly a norite with local sections up to 3m of gabbro Local sulfides pyrite-pyrrhotite with Cpx zones, chlorite altered	3	3			047	118.75	120.00	1.25	nil		0.03	0.00	0.00	NS	NS	
			3	3			048	120.00	123.00	3.00	0.50		0.21	0.02	0.00	NS	NS	
			3	3			049	123.00	126.00	3.00	0.25		0.20	0.02	0.02	NS	NS	
			3	3			050	126.00	129.00	3.00	nil		0.26	0.02	0.03	NS	NS	
			3	3			051	129.00	132.00	3.00	nil		0.05	0.00	0.00	NS	NS	
			3	3			052	132.00	135.00	3.00	nil		0.03	0.00	0.00	NS	NS	
			3	3			053	135.00	138.00	3.00	tr		0.04	0.01	0.00	NS	NS	
			3	3			054	138.00	141.00	3.00	tr		0.06	0.01	0.00	NS	NS	
			3	3			055	141.00	142.60	1.60	tr		0.05	0.00	0.00	NS	NS	
			3	3			056	142.60	144.90	2.30	tr		0.06	0.00	0.00	NS	NS	

# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-206

LOGGED BY: M. MacIsaac SIGNATURE \_\_\_\_\_

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
118.75	144.90	<b>NORITE (continued)</b> 122.3 - 122.5m % pyrrhotite-pyrite, chlorite altered 122.0 - 125.7m Gabbronorite, trace to 0.5% pyrrhotite-pyrite 132.3 - 134.1m Fine grained gabbronorite - raft 134.4 - 135.6m Tonalite dike at 65° to core axis 143.8 - 144.9m Moderate iddingsite along fractures																
144.90	153.70	<b>LEUCOGABBRO</b> Light reddish grey-green Medium grained, equigranular 60-75% Plag, 25-40% Cpx Unit is moderately to strongly altered with Plag to a reddish colour, Cpx to actinolite Unmineralized Local bleached fractures sub-parallel to core axis Plag locally saussuritized Last 3m slightly more Cpx rich	3	3			057	144.90	147.00	2.10	nil		0.08	0.00	0.00	NS	NS	
			3	3			058	147.00	150.00	3.00	nil		0.08	0.00	0.00	NS	NS	
			2	2			059	150.00	153.00	3.00	nil		0.09	0.00	0.00	NS	NS	
			2	2			060	153.00	153.70	0.70	nil		0.09	0.01	0.00	NS	NS	
153.70	168.10	<b>GABBRONORITE BRECCIA</b> Medium reddish grey-green Medium grained 50-55% Plag, 15-45% Opx, 5-35% Cpx Leucogabbro to anorthosite xenoliths within a gabbronorite matrix Xenoliths up to 20cm - possible layering Moderately magnetic, serpentine along fractures	2	2		nil	061	153.70	156.00	2.30	nil		0.21	0.04	0.00	NS	NS	
			2	2	GN	90	062	156.00	159.00	3.00	nil		0.27	0.03	0.00	NS	NS	
			2	2	GN	70	063	159.00	162.00	3.00	nil		0.20	0.00	0.00	NS	NS	
			2	2	GN	85	064	162.00	165.00	3.00	nil		0.13	0.00	0.00	NS	NS	
			2	2	GN	85	065	165.00	168.10	3.10	nil		0.08	0.00	0.01	NS	NS	

# DIAMOND DRILL CORE LOGGING SHEETS

North American **Palladium** Ltd.  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-206

LOGGED BY: **M. MacIsaac** SIGNATURE \_\_\_\_\_

METERAGE		DESCRIPTION	Alt <sup>n</sup> Bx Matrix				SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	NI %	Co %
153.70	168.10	<b>GABBRONORITE BRECCIA (continued)</b> 20-25% leucogabbro xenoliths Relatively unmineralized Local healed fractures with chlorite Xenoliths locally jagged and irregular Moderately altered 153.7 - 158.0m Norite																
168.10	190.40	<b>GABBRO</b> Light to medium grey-green Fine to medium grained 45-60% Plag, 40-55% Cpx Weakly altered with local Cpx to actinolite Relatively massive Weakly magnetic Several leucogabbro xenoliths within top 6m of unit Relatively unmineralized Local Opx up to 5% - increasing towards lower contact 183.2 - 184.9m Diabase dike at 70° to core axis	2	2			066	168.10	171.00	2.90	nil		0.05	0.01	0.00	NS	NS	
			2	2			067	171.00	174.00	3.00	nil		0.04	0.00	0.00	NS	NS	
			2	2			068	174.00	177.00	3.00	nil		0.17	0.02	0.01	NS	NS	
			2	2			069	177.00	180.00	3.00	tr		0.04	0.00	0.00	NS	NS	
			2	2			070	180.00	183.20	3.20	nil		0.04	0.00	0.00	NS	NS	
			2	2			071	183.20	184.90	1.70	nil		0.00	0.00	0.00	NS	NS	
			2	2			072	184.90	186.00	1.10	nil		0.04	0.00	0.00	NS	NS	
			2	2			073	186.00	189.00	3.00	nil		0.04	0.00	0.00	NS	NS	
			2	2			074	189.00	190.40	1.40	nil		0.04	0.00	0.00	NS	NS	
190.40	196.00	<b>GABBRONORITE</b> Light to medium brownish grey-green Medium grained, equigranular 55-60% Plag, 10% Cpx, 30-40% Opx Unit is relatively massive and unfractured Weakly altered, Plag reddish brown	1	1			075	190.40	193.00	2.60	nil		0.04	0.00	0.00	NS	NS	
			1	1			076	193.00	196.00	3.00	nil		0.06	0.01	0.01	NS	NS	

# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-206

LOGGED BY: M. MacIsaac SIGNATURE

METERAGE		DESCRIPTION	Bx Matrix				SAMPLES					ASSAYS					
FROM	TO		Alt <sup>n</sup>	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
190.40	196.00	<b>GABBRONORITE (continued)</b> Moderately magnetic Serpentine along occasional low angle fractures Unmineralized Gradational lower contact															
196.00	219.40	<b>NORITE</b> Medium reddish brown-grey Medium grained, equigranular Plag 55-60%, Cpx 5%, Opx 35-40% Weakly to moderately Magnetic Moderately to strongly altered with Plag to reddish brown, Cpx completely to actinolite and Opx locally to silvery-lustrous-platy amphibole Moderately soft. Moderate Serpentine both as veinlets, locally pervasive. Unmineralized Unit locally becomes dark grey to black in more serpentine altered sections. Serpentine alteration increases down-section.	2			077	196.00	198.00		nil		0.03	0.00	0.00	NS	NS	
			2			078	198.00	201.00		nil		0.04	0.00	0.00	NS	NS	
			2			079	201.00	204.00		nil		0.04	0.01	0.00	NS	NS	
			2			080	204.00	207.00		nil		0.04	0.00	0.00	NS	NS	
			3			081	207.00	210.00		nil		0.04	0.00	0.00	NS	NS	
			3			082	210.00	213.00		nil		0.05	0.00	0.00	NS	NS	
			3			083	213.00	216.00		nil		0.05	0.00	0.00	NS	NS	
			3			084	216.00	218.00		nil		0.04	0.01	0.00	NS	NS	
			3			085	218.00	219.40		nil		0.05	0.00	0.00	NS	NS	
219.40	248.10	<b>GABBRONORITE</b> Light to medium grey-green, brownish tinge Medium grained, equigranular 55-60% Plag, 15-30% Opx, 10-25% Cpx Weakly magnetic Unit is relatively massive, local fractures at 55° to core axis Moderately altered with Plag to magenta red, brownish tinge, Cpx to actinolite and Opx locally to tremolite Local serpentine along fractures with associated black chlorite Relatively unmineralized Sharp irregular lower contact at roughly 65° to core axis Trace pyrite-chalcopyrite at lower contact Moderately magnetic	3			086	219.40	222.00	2.60	nil		0.05	0.00	0.00	NS	NS	
			3			087	222.00	225.00	3.00	nil		0.26	0.14	0.01	NS	NS	
			3			088	225.00	228.00	3.00	nil		0.06	0.00	0.00	NS	NS	
			3			089	228.00	231.00	3.00	nil		0.03	0.00	0.00	NS	NS	
			3			090	231.00	234.00	3.00	nil		0.03	0.00	0.00	NS	NS	
			3			091	234.00	237.00	3.00	nil		0.02	0.00	0.00	NS	NS	
			3			092	237.00	240.00	3.00	nil		0.01	0.00	0.00	NS	NS	
			3			093	240.00	243.00	3.00	nil		0.01	0.00	0.00	NS	NS	
			3			094	243.00	246.00	3.00	nil		0.06	0.00	0.00	NS	NS	
			3			095	246.00	248.10	2.10	tr		0.11	0.02	0.01	NS	NS	

# DIAMOND DRILL CORE LOGGING SHEETS

North American **Palladium Ltd.**  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-206

LOGGED BY: **M. MacIsaac** SIGNATURE \_\_\_\_\_

METERAGE		DESCRIPTION	Alt <sup>n</sup> Bx Matrix				SAMPLES					ASSAYS							
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %	
248.10	253.90	<b>MAGNETITE GABBRONORITE</b> Medium brownish grey-black Medium grained, relatively equigranular 5-10% magnetite, 10-40% Plag, 10-30% Opx, 20% Cpx Strong magnetite with up to 40%, semi-massive, 1-3% pyrite-chalcopyrite associated with magnetite Unit has a layered texture at 64° to core axis Magnetite mainly interstitial Local serpentine - black chlorite along fractures Gradational upper and lower contacts with gradual increase in magnetite down-section Moderately altered																	
			2	2			096	248.10	249.00		1:5		0.12	0.02	0.02	NS	NS		
			2	2			097	249.00	252.00		1:5		0.18	0.03	0.02	NS	NS		
			2	2			098	252.00	253.90		2:0		0.11	0.02	0.02	NS	NS		
253.90	300.00	<b>GABBRONORITE</b> Medium brownish grey-green Medium grained 40-45% Plag, 10-20% Cpx, 20-50% Plag Weakly to moderately altered with Plag to smokey grey, Cpx locally to actinolite - Opx weakly altered Moderately magnetite Weakly fractured mainly 65° to core axis with associated serpentine and black chlorite Unit locally grades into norite over widths up to 1m Local narrow gabbro sections Local trace finely disseminated chalcopyrite-pyrite Local lime greenish serpentine - chlorite healed veinlets at various orientations																	
			1	1			099	253.90	255.00	1.10	nil		0.04	0.00	0.00	NS	NS		
			1	1			100	255.00	258.00	3.00	tr		0.03	0.00	0.00	NS	NS		
			1	1			101	258.00	261.00	3.00	tr		0.11	0.03	0.01	NS	NS		
			1	1			102	261.00	264.00	3.00	tr		0.09	0.01	0.01	NS	NS		
			1	1			103	264.00	267.00	3.00	tr		0.09	0.02	0.01	NS	NS		
			1	1			104	267.00	270.00	3.00	nil		0.03	0.01	0.00	NS	NS		
			1	1			105	270.00	273.00	3.00	nil		0.07	0.01	0.00	NS	NS		
			2	2			106	273.00	276.00	3.00	tr		0.07	0.00	0.00	NS	NS		
			2	2			107	276.00	279.00	3.00	tr		0.09	0.01	0.01	NS	NS		
			2	2			108	279.00	282.00	3.00	tr		0.10	0.01	0.00	NS	NS		
			2	2			109	282.00	285.00	3.00	nil		0.10	0.01	0.01	NS	NS		
		2	2			110	285.00	288.00	3.00	nil		0.02	0.00	0.00	NS	NS			
		2	2			111	288.00	291.00	3.00	nil		0.11	0.02	0.01	NS	NS			
		2	2			112	291.00	294.00	3.00	nil		0.19	0.01	0.01	NS	NS			

# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-206

LOGGED BY: M. MacIsaac SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
253.90	300.00		<b>GABBRONORITE</b> Local magnetite 1-3% - interstitial 282.5 - 282.8m Tonalite dike Alteration increases down section 289.5 - 284.4m 1-10% magnetite, 0.25% chalcopyrite-pyrite Plag locally saussuritized	2	2			113	294.00	297.00	3.00	nil		0.12	0.02	0.02	NS	NS
			2	2			114	297.00	300.00	3.00	nil		0.23	0.03	0.01	NS	NS	
300.00	330.00	<b>NORITE</b> Brownish grey Medium grained 50% Plag, 45% Opx, 5% Cpx Moderately altered with Plag to smokey grey, Opx partially altered tremolite and Cpx to actinolite Strongly magnetic Local abundant chlorite-serpentine veinlets along healed fractures, serpentine locally along open fractures Moderately mineralized with 0.5-2.0% chalcopyrite-pyrrhotite, fine blebs and finely disseminated, local pyrite along fractures with chlorite 316.4 - 317.9m Semi-massive band of magnetic, 0.5% disseminated chalcopyrite-pyrite Gradational lower contact	2	2			115	300.00	303.00	3.00	2.00		0.20	0.03	0.02	NS	NS	
			2	2			116	303.00	306.00	3.00	0.50		0.17	0.01	0.02	NS	NS	
			2	2			117	306.00	309.00	3.00	1.00		0.26	0.03	0.03	NS	NS	
			2	2			118	309.00	312.00	3.00	1.50		0.13	0.01	0.01	NS	NS	
			2	2			119	312.00	315.00	3.00	0.25		0.02	0.00	0.00	NS	NS	
			2	2			120	315.00	316.40	1.40	tr		0.08	0.01	0.00	NS	NS	
			2	2			121	316.40	319.90	3.50	0.50		0.13	0.01	0.01	NS	NS	
			2	2			122	319.90	321.00	1.10	tr		0.08	0.02	0.01	NS	NS	
			2	2			123	321.00	324.00	3.00	tr		0.03	0.01	0.00	NS	NS	
			2	2			124	324.00	327.00	3.00	tr		0.03	0.00	0.00	NS	NS	
			2	2			125	327.00	330.00	3.00	tr		0.06	0.00	0.00	NS	NS	





# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-206

LOGGED BY: M. MacIsaac SIGNATURE

METERAGE		DESCRIPTION	Bx Matrix				SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
344.00	367.50	<b>MAGNETITE GABBRO</b> Medium to dark grey, greenish tinge Medium grained 35-40% Plag, 50-60% Cpx, 2-20% magnetite Weakly to locally moderately fractured at 45-60° to core axis with associated chlorite and serpentine Strongly magnetic with 2-10% magnetite, locally layered with associated pyrite 0.25 to 0.5%, blebs Unit is moderately layered at 65° to core axis, ranging from finer to medium grained and variable magnetite content Occasional narrow tonalite dikes Weakly altered, Cpx locally to actinolite Irregular blocky lower contact 359.4 - 359.6m Diabase dike at 40° to core axis	1	1			132	344.00	345.00	1.00	tr		0.03	0.00	0.00	NS	NS	
			1	1			133	345.00	348.00	3.00	tr		0.09	0.01	0.01	NS	NS	
			1	1			134	348.00	351.00	3.00	0.25		0.07	0.00	0.00	NS	NS	
			1	1			135	351.00	354.00	3.00	0.50		0.12	0.01	0.01	NS	NS	
			1	1			136	354.00	357.00	3.00	0.50		0.14	0.03	0.02	NS	NS	
			1	1			137	357.00	360.00	3.00	tr		0.06	0.02	0.00	NS	NS	
			1	1			138	360.00	363.00	3.00	tr		0.08	0.02	0.01	NS	NS	
			1	1			139	363.00	366.00	3.00	tr		0.04	0.00	0.00	NS	NS	
			1	1			140	366.00	367.50	1.50	tr		0.10	0.01	0.01	NS	NS	
367.50	388.60	<b>MAGNETITE BEARING GABBRO</b> Medium grey-green Medium grained 40-45% Plag, 55-60% Cpx Weakly altered with cpx locally to actinolite 1-2% magnetite - interstitial Upper portion of unit moderately to strong fractured with moderate clay (talc) and chlorite along fractures Several fine grained gabbro rafts up to 20cm Several microshears (1-5cm) with epidote-clay-serpentine alteration Unmineralized	2	2			141	367.50	369.00	1.50	nil		0.01	0.00	0.00	NS	NS	
			2	2			142	369.00	372.00	3.00	nil		0.01	0.00	0.00	NS	NS	
			2	2			143	372.00	375.00	3.00	nil		0.02	0.00	0.00	NS	NS	
			2	2			144	375.00	378.00	3.00	0.50		0.12	0.02	0.01	NS	NS	
			1	1			145	378.00	381.00	3.00	nil		0.04	0.01	0.00	NS	NS	
			1	1			146	381.00	384.00	3.00	nil		0.01	0.00	0.00	NS	NS	
			1	1			147	384.00	387.00	3.00	nil		0.01	0.00	0.00	NS	NS	
			1	1			148	387.00	388.60	1.60	nil		0.03	0.00	0.00	NS	NS	

# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-206

LOGGED BY: M. MacIsaac SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup> Bx Matrix				SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	NI %	Co %
367.50	388.60	<b>MAGNETITE BEARING GABBRO (continued)</b> 368.0m Microshear at 30° to core axis 368 - 375m Strong fractured-blocky core 375.8m Microshear at 35° to core axis 378.9m Clay seam along fractures - 10(?)° to core axis 377.2 - 377.5m Magnetite seam, pyrite blebs																
388.60	396.00	<b>GABBRONORITE</b> Medium brownish grey-green Medium grained 35-40% Plag, 15-20% Opx, 40-50% Cpx Weakly to moderately altered with local mottled texture, Cpx to actinolite, Plag locally smokey grey Weakly to moderately magnetic due to alteration of Opx Relatively unmineralized Massive and unfractured	2	2			149	388.60	390.00	1.40	nil		0.03	0.00	0.00	NS	NS	
			2	2			150	390.00	393.00	3.00	nil		0.03	0.00	0.00	NS	NS	
			1	1			151	393.00	396.00	3.00	nil		0.03	0.00	0.00	NS	NS	
396.00	494.10	<b>GABBRO</b> Medium grey-green Medium grained, equigranular 50% Plag, 50% cpx Weakly magnetic Weakly altered with Plag to a weak magenta colour, local Cpx to actinolite, moderately altered down section Occasional chlorite stringer	2	2			152	396.00	399.00	3.00	nil		0.02	0.00	0.00	NS	NS	
			2	2			153	399.00	402.00	3.00	nil		0.02	0.00	0.00	NS	NS	
			2	2			154	402.00	405.00	3.00	nil		0.02	0.00	0.00	NS	NS	
			1	1			155	405.00	408.00	3.00	nil		0.03	0.00	0.00	NS	NS	
			1	1			156	408.00	411.00	3.00	nil		0.03	0.00	0.00	NS	NS	
			1	1			157	411.00	414.00	3.00	nil		0.03	0.00	0.00	NS	NS	
			1	1			158	414.00	417.00	3.00	nil		0.03	0.00	0.00	NS	NS	
			1	1			159	417.00	420.00	3.00	nil		0.02	0.00	0.00	NS	NS	
			1	1			160	420.00	423.00	3.00	nil		0.01	0.00	0.00	NS	NS	

# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-206

LOGGED BY: M. MacIsaac SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup> Bx Matrix				SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
396.00	494.10	<b>GABBRO (continued)</b>																
		Local fractures with serpentine - weak to moderate fractures at predominantly 45° to core axis, local green chlorite	1	1			161	423.00	426.00	3.00	nil		0.03	0.00	0.00	NS	NS	
		Relatively unmineralized	1	1			162	426.00	429.00	3.00	nil		0.03	0.00	0.00	NS	NS	
		404.30 - 404.45m Fault zone, strong clay alteration, serpentine	1	1			163	429.00	432.00	3.00	nil		0.03	0.00	0.00	NS	NS	
		420.8 - 422.8m Fault zone, 70% core recovery, strong serpentine - clay alteration, blocky-intensely fractured, strong iddingsite, narrow mafic dike, brecciated contact, upper contact at 40° to core axis	2	2			164	432.00	435.00	3.00	nil		0.06	0.02	0.00	NS	NS	
			2	2			165	435.00	438.00	3.00	nil		0.07	0.02	0.00	NS	NS	
			2	2			166	438.00	441.00	3.00	nil		0.07	0.01	0.00	NS	NS	
			2	2			167	441.00	444.00	3.00	nil		0.08	0.00	0.00	NS	NS	
			2	2			168	444.00	447.00	3.00	nil		0.05	0.00	0.00	NS	NS	
			2	2			169	447.00	450.00	3.00	nil		0.06	0.01	0.00	NS	NS	
		447.0 - 447.9m Fault zone, broken blocky ocre, granitic dike - 10cm	2	2			170	450.00	453.00	3.00	nil		0.06	0.00	0.00	NS	NS	
		Abundant granitic dikelets towards bottom of unit	2	2			171	453.00	456.00	3.00	nil		0.07	0.00	0.00	NS	NS	
		Plag content increasing down section, potassic alteration	2	2			172	456.00	459.00	3.00	nil		0.13	0.01	0.00	NS	NS	
		locally with fracturing	2	2			173	459.00	462.00	3.00	nil		0.21	0.01	0.00	NS	NS	
		Several microshears at bottom of unit	2	2			174	462.00	465.00	3.00	nil		0.09	0.00	0.00	NS	NS	
		Local narrow sections with 1% magnetite	2	2			175	465.00	468.00	3.00	nil		0.06	0.00	0.00	NS	NS	
		466.3 - 471.35m Coarse grained gabbro, strongly recrystallized, gneissic	2	2			176	468.00	471.00	3.00	nil		0.07	0.00	0.00	NS	NS	
		Sheared upper contact at 30° to core axis	1	1			177	471.00	474.00	3.00	nil		0.01	0.00	0.00	NS	NS	
		474.0 - 474.3m Granitic dike	1	1			178	474.00	477.00	3.00	nil		0.00	0.00	0.00	NS	NS	
		474.0 - 474.1m Clay seam	1	1			179	477.00	480.00	3.00	nil		0.00	0.02	0.00	NS	NS	
		486.0 - 486.1m Fault zone, clay altered, calcite	1	1			180	480.00	483.00	3.00	nil		0.02	0.02	0.01	NS	NS	
		Gradational lower contact	1	1			181	483.00	486.00	3.00	nil		0.01	0.00	0.00	NS	NS	
			1	1			182	486.00	489.00	3.00	nil		0.01	0.00	0.00	NS	NS	
			1	1			183	489.00	492.00	3.00	nil		0.00	0.00	0.00	NS	NS	
			1	1			184	492.00	494.10	2.10	nil		0.00	0.00	0.00	NS	NS	

# DIAMOND DRILL CORE LOGGING SHEETS

PROPERTY LDI ZONE Roby HOLE # 00-206

LOGGED BY: M. MacIsaac SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy.Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
494.10	513.70		<b>MAGNETITE GABBRO</b> Medium grey-green Medium grained, equigranular 40-45% Plag, 55-60% Cpx 1-3% magnetite throughout Weakly altered with local Cpx to actinolite Relatively unmineralized Local fractures at 42° to core axis with associated chlorite Local pervasive chlorite Sheared lower contact at 35° to core axis	1	1			185	471.00	474.00	3.00	nil		0.00	0.00	0.00	NS	NS
			1	1			186	474.00	477.00	3.00	nil		0.01	0.00	0.00	NS	NS	
			1	1			187	477.00	480.00	3.00	nil		0.03	0.00	0.00	NS	NS	
			1	1			188	480.00	483.00	3.00	nil		0.04	0.01	0.00	NS	NS	
			1	1			189	483.00	486.00	3.00	nil		0.11	0.05	0.00	NS	NS	
			1	1			190	486.00	489.00	3.00	nil		0.06	0.00	0.01	NS	NS	
			1	1			191	489.00	492.00	3.00	nil		0.05	0.00	0.00	NS	NS	
			1	1			192	492.00	494.10	2.10	nil		0.01	0.00	0.00	NS	NS	
513.70	662.95	<b>GABBRO (East Gabbro)</b> Light to medium grey-green Medium grained, equigranular 45-50% Plag, 50-55% Cpx Unit is typically east gabbro with subhedral Cpx and Plag Unit is hard, massive, occasional fractures at 57° to core axis Unit is weakly altered Local disseminated pyrite Locally moderate epidote within Plag Fine disseminated pyrite, trace to locally cubic 530.6 - 530.7m Shear zone at 31° to core axis 594.7 - 596.2m Fractured blocky core, bleached 596.8 - 597.1m Fault zone, 70% core recovery, blocky 612.4 - 612.7m Microshear at 5° to core axis 610.7 - 610.8m Shear zone at 70° to core axis	1	1			193	513.70	516.00	2.30	nil		0.03	0.05	0.01	NS	NS	
			1	1			194	516.00	519.00	3.00	nil		0.05	0.03	0.01	NS	NS	
			1	1			195	519.00	522.00	3.00	tr		0.34	0.08	0.00	NS	NS	
			1	1			196	522.00	525.00	3.00	tr		0.12	0.03	0.00	NS	NS	
			1	1			197	525.00	528.00	3.00	tr		0.00	0.00	0.00	NS	NS	
			1	1			198	528.00	531.00	3.00	tr		0.00	0.00	0.00	NS	NS	
			1	1			199	531.00	534.00	3.00	tr		0.01	0.00	0.00	NS	NS	
			1	1			200	534.00	537.00	3.00	tr		0.01	0.00	0.00	NS	NS	
			1	1			201	537.00	540.00	3.00	tr		0.00	0.00	0.00	NS	NS	
			1	1			202	540.00	543.00	3.00	tr		0.00	0.00	0.00	NS	NS	
			1	1			203	543.00	546.00	3.00	tr		0.00	0.00	0.00	NS	NS	
			1	1			204	546.00	549.00	3.00	tr		0.01	0.01	0.00	NS	NS	
			1	1			205	549.00	552.00	3.00	tr		0.01	0.00	0.00	NS	NS	
			2	2			206	552.00	555.00	3.00	nil		0.01	0.00	0.00	NS	NS	
			2	2			207	555.00	558.00	3.00	nil		0.01	0.01	0.00	NS	NS	
			2	2			208	558.00	561.00	3.00	nil		0.01	0.00	0.00	NS	NS	

# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-206

LOGGED BY: M. MacIsaac SIGNATURE \_\_\_\_\_

METERAGE		DESCRIPTION	Alt <sup>n</sup> Bx Matrix				SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
513.70	662.95	<b>GABBRO (East Gabbro) (continued)</b>	1	1			209	561.00	564.00	3.00	nil		0.01	0.00	0.00	NS	NS	
		Local chlorite along fractures	1	1			210	564.00	567.00	3.00	nil		0.01	0.00	0.00	NS	NS	
		Alteration substantially increases gradually down section with Plag becoming dark magenta and Cpx a dark green and completely to actinolite, strong mottled texture, local epidote	1	1			211	567.00	570.00	3.00	tr		0.01	0.00	0.00	NS	NS	
		Strongly altered from 642m --> 656.1m, much darker in colour	1	1			212	570.00	573.00	3.00	nil		0.01	0.00	0.00	NS	NS	
		Shear zone 656.10 - 662.95m, gneissic texture at 60° to core axis	1	1			213	573.00	576.00	3.00	nil		0.01	0.00	0.00	NS	NS	
		Abundant narrow tonalitic dikelets	1	1			214	576.00	579.00	3.00	tr		0.01	0.00	0.00	NS	NS	
		Dioritic dike at lower contact at 61° to core axis 662.95m	1	1			215	579.00	582.00	3.00	tr		0.01	0.00	0.00	NS	NS	
		656.10 - 662.95m East gabbro, weakly to moderately altered, sheared lower contact at 52° to core axis	1	1			216	582.00	585.00	3.00	tr		0.01	0.00	0.00	NS	NS	
		655.7m Massive pyrite pod-trace chalcopyrite within tonalite dikelet	1	1			217	585.00	588.00	3.00	tr		0.01	0.00	0.00	NS	NS	
			1	1			218	588.00	591.00	3.00	nil		0.01	0.00	0.00	NS	NS	
			1	1			219	591.00	594.00	3.00	nil		0.01	0.00	0.00	NS	NS	
			1	1			220	594.00	597.00	3.00	nil		0.01	0.00	0.00	NS	NS	
			1	1			221	597.00	600.00	3.00	nil		0.01	0.00	0.00	NS	NS	
			1	1			222	600.00	603.00	3.00	tr		0.01	0.00	0.00	NS	NS	
			1	1			223	603.00	606.00	3.00	tr		0.01	0.00	0.00	NS	NS	
			1	1			224	606.00	609.00	3.00	tr		0.02	0.00	0.00	NS	NS	
			1	1			225	609.00	612.00	3.00	tr		0.02	0.00	0.00	NS	NS	
			1	1			226	612.00	615.00	3.00	tr		0.01	0.00	0.00	NS	NS	
			1	1			227	615.00	618.00	3.00	tr		0.01	0.00	0.00	NS	NS	
			1	1			228	618.00	621.00	3.00	tr		0.01	0.00	0.00	NS	NS	
			1	1			229	621.00	624.00	3.00	tr		0.01	0.00	0.00	NS	NS	
			1	1			230	624.00	627.00	3.00	tr		0.01	0.00	0.00	NS	NS	
			1	1			231	627.00	630.00	3.00	tr		0.01	0.01	0.00	NS	NS	
			1	1			232	630.00	633.00	3.00	tr		0.02	0.00	0.00	0.007	0.005	
			1	1			233	633.00	636.00	3.00	nil		0.02	0.00	0.00	0.006	0.005	
			2	2			234	636.00	639.00	3.00	nil		0.01	0.00	0.00	0.006	0.004	
			2	2			235	639.00	642.00	3.00	nil		0.02	0.00	0.00	0.008	0.004	
			3	3			236	642.00	645.00	3.00	nil		0.02	0.00	0.00	0.008	0.006	







# DIAMOND DRILL CORE LOGGING SHEETS

PROPERTY LDI ZONE Roby HOLE # 00-206

LOGGED BY: M. MacIsaac SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>m</sup>				Bx Matrix					SAMPLES					ASSAYS				
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %			
674.30	680.55	<b>PYROXENITE (continued)</b> Gradational lower contact with increase in Plag Local rafts of gabbro - strongly altered up to 0.4m 678.55 - 679.25m Mafic dike, fine to medium grained at 59° to core axis																			
680.55	711.80	<b>HETEROLITHIC GABBRO BRECCIA</b> Light to medium grey-green, smokey grey Finer medium grained to very coarse grained 50-60% Plag, 40-50% Cpx Unit is weakly to moderately brecciated with fine grained xenoliths up to 20cm (10-15%) and more Cpx rich xenoliths More Cpx rich xenoliths are gradational at contacts due to partial digestion Unit is strongly altered with Cpx to actinolite buff-green locally becoming black (hornblende), Plag to a magenta colour, unit has a strong mottled texture, Plag and Cpx anhedral - recrystallized Cpx locally altered along outer rims to talc Local Cpx crystals up to 1.5cm Plag in coarser sections along outer rims exhibits zoning with inner core smokey grey and white Plag locally saussuritized Weakly mineralized with trace to 0.25% pyrrhotite-chalcopyrite blebs usually with Cpx Local healed fractures with chlorite at various orientations Non-magnetic Several narrow tonalitic dikes at various orientations	3	3	G	75	252	680.55	682.00	1.45	tr		1.09	0.18	0.04	0.007	0.012				
			3	3	G	85	253	682.00	684.00	2.00	tr		1.76	0.14	0.05	0.005	0.012				
			3	3	G	85	254	684.00	687.00	3.00	0.50	2:1	8.15	0.29	0.15	0.013	0.022				
			3	3	G	85	255	687.00	690.00	3.00	tr		1.24	0.09	0.02	0.005	0.019				
			3	3	G	75	256	690.00	693.00	3.00	tr		0.10	0.01	0.01	0.003	0.013				
			3	3	G	85	257	693.00	696.00	3.00	tr		0.12	0.02	0.00	0.002	0.010				
			3	3	G	85	258	696.00	699.00	3.00	tr		2.53	0.18	0.01	0.002	0.019				
			3	3	G	85	259	699.00	702.00	3.00	0.25		0.62	0.09	0.12	0.010	0.039				
			3	3	G	85	260	702.00	705.00	3.00	0.25		0.34	0.07	0.04	0.010	0.022				
			3	3	G	75	261	705.00	708.00	3.00	0.25		0.18	0.04	0.01	0.004	0.013				
			3	3	G	75	262	708.00	711.00	3.00	tr		0.67	0.09	0.03	0.006	0.012				
			3	3	G	75	263	711.00	711.80	0.80	0.25										

# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-206

LOGGED BY: M. MacIsaac SIGNATURE \_\_\_\_\_

METERAGE		DESCRIPTION	Alt <sup>n</sup>				Bx Matrix					SAMPLES					ASSAYS				
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %			
680.55	711.80		<b>HETEROLITHIC GABBRO BRECCIA</b> 20-25% of unit is xenoliths with coarser grained portion being matrix Lower contact at 29° to core axis, sheared contact																		
711.80	726.10	<b>VARITEXTURED GABBRO</b> Medium grey-green, buff grey-green Medium to coarse grained 50% Plag, 50% Cpx Strongly altered with Plag to smokey grey, locally saussuritized Cpx to actinolite, buff grey-green, moderate to strong mottled texture, local epidote within Plag Trace to 0.25% pyrrhotite-pyrite, disseminated Relatively unfractured and massive Occasional xenolith up to 10cm Moderately varitextured ranging from medium to coarse grained gradationally Sharp lower contact with dike at 41° to core axis	3	3			264	711.80	714.00	2.20	tr		0.71	0.10	0.01	0.001	0.013				
			3	3			265	714.00	717.00	3.00	tr		0.34	0.04	0.01	0.003	0.012				
			2	2			266	717.00	720.00	3.00	tr		0.42	0.06	0.01	0.003	0.013				
			2	2			267	720.00	723.00	3.00	0.25		0.12	0.02	0.01	0.012	0.012				
			2	2			268	723.00	726.10	3.10	0.25		0.07	0.01	0.01	0.011	0.011				
726.10	737.40	<b>FELSIC DIKE</b> Light grey Finer medium grained Very hard, quartz rich, more Plag rich at contacts Strong quartz flooding Locally strong fabric at 39° to core axis Quartz stringers with pyrite blebs, local epidote with quartz	1	1			269	726.10	729.00	2.90	0.25		0.01	0.00	0.00	0.002	0.002				
			1	1			270	729.00	732.00	3.00	0.25		0.01	0.00	0.00	0.002	0.000				
			1	1			271	732.00	735.00	3.00	0.25		0.02	0.00	0.00	0.001	0.002				
			1	1			272	735.00	737.40	2.40	0.25		0.00	0.00	0.00	0.001	0.002				

# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-206

LOGGED BY: M. MacIsaac SIGNATURE \_\_\_\_\_

METERAGE		DESCRIPTION	Alt <sup>n</sup> Bx Matrix				SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	NI %	Co %
726.10	737.40	<b>FELSIC DIKE (continued)</b> 731.9 - 732.8m Quartz flooded 735.80 - 737.65m Quartz flooded at contact with gabbro, strong chlorite alteration, strong brecciated Local potassic alteration																
737.40	754.60	<b>VARITEXTURED GABBRO</b> Medium grey-green Medium to coarse grained 50% Plag, 50% Cpx Unit is moderately to strongly varitextured going from medium to coarse grained gradationally Unit is moderately altered with Cpx to actinolite and Plag to smokey grey Moderate mottled texture 0.25 to 0.5% pyrrhotite-chalcopyrite blebs Locally fractured at 54° to core axis Lower contact at 45° to core axis	2	2			273	737.40	739.00	1.60	1.00	1:1	0.26	0.16	0.19	0.083	0.098	
			2	2			274	739.00	741.00	2.00	tr		0.24	0.13	0.22	0.056	0.056	
			2	2			275	741.00	744.00	3.00	0.50		0.32	0.09	0.25	0.084	0.071	
			2	2			276	744.00	747.00	3.00	0.75		0.68	0.14	0.17	0.088	0.073	
			2	2			277	747.00	750.00	3.00	0.50		0.29	0.08	0.12	0.051	0.034	
			2	2			278	750.00	753.00	3.00	0.25		0.60	0.13	0.08	0.045	0.038	
			2	2			279	753.00	754.60	1.60	tr		1.09	0.18	0.10	0.052	0.045	
754.60	769.00	<b>MELANOGABBRO</b> Dark green and grey Medium grained 25-30% Plag, 70-75% Cpx Moderately altered with Cpx to actinolite, Plag locally purplish red - relatively massive and unfractured, local chlorite Trace to 0.5% pyrrhotite-chalcopyrite blebs Gradational lower contact	2	2			280	754.60	756.00	1.40	0.50		1.21	0.23	0.06	0.021	0.042	
			2	2			281	756.00	759.00	3.00	0.25		1.11	0.08	0.04	0.012	0.019	
			2	2			282	759.00	762.00	3.00	tr		0.24	0.04	0.01	0.007	0.012	
			2	2			283	762.00	765.00	3.00	tr		0.20	0.05	0.01	0.005	0.009	
			2	2			284	765.00	768.00	3.00	tr		0.04	0.01	0.00	0.007	0.009	
			2	2			285	768.00	769.00	1.00	0.25		0.09	0.02	0.01	0.007	0.010	

# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-206

LOGGED BY: M. MacIsaac SIGNATURE \_\_\_\_\_

METERAGE		DESCRIPTION	Alt <sup>n</sup> Bx Matrix				SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
769.00	841.20	<b>VARITEXTURED GABBRO</b> Medium grey-green, buff grey Medium to very coarse grained 45-55% Plag, 45-55% Cpx Moderately to strongly varitextured from medium to very coarse grained gradationally Massive, occasional fractures at 65 and 45° to core axis Trace to 0.5% pyrrhotite-chalcopyrite blebs Moderately altered with Plag a locally weak magenta colour, Cpx to actinolite Coarse grained sections of Plag and Cpx, subhedral to euhedral Unit becomes slightly less varitextured to moderate down section Occasional small mafic xenolith up to 10cm Alteration decreases down section 776.5 - 776.85m Diabase dike at 12° to core axis 830.9 - 832.8m Diabase dike, non-magnetic, contact at 34° to core axis	2	2			286	769.00	771.00	2.00	0.50		0.85	0.12	0.05	0.027	0.022	
			2	2			287	771.00	774.00	3.00	0.25		1.17	0.19	0.05	0.036	0.027	
			2	2			288	774.00	777.00	3.00	tr		0.05	0.02	0.01	0.009	0.008	
			2	2			289	777.00	780.00	3.00	0.75		0.46	0.06	0.03	0.014	0.011	
			2	2			290	780.00	783.00	3.00	0.50		0.67	0.10	0.06	0.026	0.018	
			2	2			291	783.00	786.00	3.00	tr		0.86	0.17	0.04	0.023	0.035	
			2	2			292	786.00	789.00	3.00	tr		0.17	0.04	0.01	0.010	0.015	
			2	2			293	789.00	792.00	3.00	tr		0.27	0.06	0.02	0.020	0.016	
			2	2			294	792.00	795.00	3.00	tr		0.30	0.06	0.03	0.025	0.018	
			2	2			295	795.00	798.00	3.00	tr		0.26	0.08	0.03	0.024	0.019	
			1	1			296	798.00	801.00	3.00	tr		0.16	0.03	0.02	0.016	0.015	
			1	1			297	801.00	804.00	3.00	tr		0.11	0.03	0.02	0.014	0.012	
			1	1			298	804.00	807.00	3.00	tr		0.04	0.01	0.01	0.006	0.010	
			1	1			299	807.00	810.00	3.00	tr		0.03	0.01	0.00	0.005	0.009	
			1	1			300	810.00	813.00	3.00	nil		0.05	0.01	0.00	0.006	0.008	
			1	1			301	813.00	816.00	3.00	nil		0.03	0.02	0.01	0.008	0.007	
			1	1			302	816.00	819.00	3.00	nil		0.01	0.00	0.01	0.008	0.010	
			1	1			303	819.00	822.00	3.00	nil		0.03	0.01	0.01	0.011	0.010	
			1	1			304	822.00	825.00	3.00	nil		0.03	0.01	0.01	0.008	0.012	
			1	1			305	825.00	828.00	3.00	nil		0.09	0.03	0.02	0.009	0.013	
			1	1			306	828.00	830.90	2.90	nil		0.07	0.01	0.01	0.006	0.011	
			1	1			307	830.90	832.80	1.90	nil		0.00	0.00	0.00	0.001	0.002	
			1	1			308	832.80	834.00	1.20	nil		0.04	0.02	0.00	0.004	0.009	
			1	1			309	834.00	837.00	3.00	nil		0.05	0.03	0.00	0.005	0.008	
			1	1			310	837.00	840.00	3.00	nil		0.06	0.03	0.00	0.010	0.011	
			1	1			311	840.00	841.20	1.20	nil		0.02	0.01	0.01	0.021	0.017	



# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-206

LOGGED BY: M. MacIsaac SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
867.00	869.70	<b>MAFIC DIKE/LATE MAFIC DIKE</b>  Continuation of unit logged at end of MM's 2000 log. Fine grained, dark grey, hard and moderately magnetic, local minor stringer epidote, minor fine grained disseminated pyrite. Sharp contact at 869.70 at 40° to core axis.					322	867.00	869.70	2.70	0.25		0.00	0.00	0.01	0.041	0.001	0.003
869.70	900.40	<b>GABBRO</b>  Coarse grained, green grey, hard and not magnetic, locally coarser to fine grained but not enough textured variation to define even a weak varied texture, local weak to moderate patchy epidote, minor to locally moderate erratic white-grey medium grained plag rich stringers, veinlets and veins local 10cm to 50cm scale medium grained Plag rich dioritic to anorthositic dikelets. Cpx 40-60% Plag 40-60% Moderate alteration of Cpx to actinolite. Moderate alteration of Plag. No visible sulphide mineralization Gradational/subjective contact at 900.40m. 873.00m to 873.30m: Sheared tonalite/diorite dikelets, shearing parallel to core axis, local grey quartz veinlets. 875.90m to 876.25m: Diorite Dike: finer to medium grained, white with local orange staining/alteration. Contact at 875.90m at 20° to core axis. Contact at 876.25 at 50° to core axis.	2	2			323	869.70	871.00	1.30			0.11	0.03	0.00	0.002	0.019	0.003
			2	2			324	871.00	873.00	2.00			0.08	0.03	0.00	0.003	0.022	0.003
			2	2			325	873.00	876.00	3.00			0.05	0.02	0.01	0.004	0.020	0.003
			2	2			326	876.00	879.00	3.00			0.05	0.02	0.01	0.004	0.021	0.003
			2	2			327	879.00	882.00	3.00			0.04	0.02	0.00	0.005	0.023	0.003
			2	2			328	882.00	885.00	3.00			0.05	0.02	0.00	0.006	0.025	0.004
			2	2			329	885.00	888.00	3.00			0.07	0.03	0.00	0.005	0.024	0.004
			2	2			330	888.00	891.00	3.00			0.07	0.03	0.01	0.004	0.020	0.004
			2	2			331	891.00	894.00	3.00			0.06	0.02	0.00	0.005	0.018	0.003
			2	2			332	894.00	897.00	3.00			0.07	0.03	0.00	0.005	0.018	0.003
			2	2			333	897.00	900.40	3.40			0.07	0.03	0.00	0.004	0.019	0.003











# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2808 FAX: 905-624-6163

To: LAC DES ILES MINES LTD - EXPLORATION  
 NORTH AMERICAN PALLADIUM  
 P.O. BOX 10547  
 THUNDER BAY, ON  
 P7B 6T9

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 Account : MZI

Subject: 1033-00-206  
 Comment: STN: MOE LAVIGNE

2024

## CERTIFICATE OF ANALYSIS A0121787

SAMPLE	PREP CODE		Pd ppb	Pt ppb	Au ppb	Al2O3 % Calc	Fe2O3 % Calc	MgO % Calc	Cu % calc.	Ni % calc.	Co % calc.	Zn % (ICP)	S % (ICP)	Ag ppm (ICP)	Al % (ICP)	As ppm (ICP)	Ba ppm (ICP)	Ba ppm (ICP)	Bi ppm (ICP)	Ce % (ICP)	Cd ppm (ICP)
	00-206-322	1388	276	2	< 0.5	7	16.15	7.94	2.60	0.0405	0.0012	0.0026	5.55	0.64	< 0.5	8.56	< 5	350	0.5	< 2	3.9
00-206-323	1388	276	105	33.0	2	18.25	4.35	6.48	0.0018	0.0188	0.0029	3.04	0.01	< 0.5	9.66	< 5	130	< 0.5	< 2	6.7	< 0.5
00-206-324	1388	276	83	30.5	4	18.70	4.58	7.40	0.0025	0.0218	0.0032	3.20	0.01	< 0.5	9.89	< 5	90	< 0.5	< 2	7.1	< 0.5
00-206-325	1388	276	48	22.5	9	17.60	4.17	6.43	0.0036	0.0198	0.0030	2.92	0.01	< 0.5	9.43	< 5	160	< 0.5	< 2	6.2	< 0.5
00-206-326	1388	276	53	19.5	6	18.35	4.35	6.73	0.0040	0.0207	0.0029	3.04	0.01	< 0.5	9.72	< 5	190	< 0.5	< 2	6.4	< 0.5
00-206-327	1388	276	39	20.5	2	18.65	4.83	7.46	0.0053	0.0230	0.0034	3.38	0.01	< 0.5	9.86	< 5	130	< 0.5	< 2	6.8	< 0.5
00-206-328	1388	276	45	24.0	2	18.80	5.23	8.06	0.0057	0.0246	0.0037	3.66	0.03	< 0.5	9.96	< 5	70	< 0.5	< 2	7.2	< 0.5
00-206-329	1388	276	73	28.5	3	19.00	5.42	8.09	0.0053	0.0237	0.0038	3.79	0.03	< 0.5	10.06	< 5	60	< 0.5	< 2	7.3	< 0.5
00-206-330	1388	276	66	27.0	5	18.80	5.38	7.06	0.0038	0.0200	0.0035	3.76	0.03	< 0.5	9.96	< 5	70	< 0.5	< 2	6.9	< 0.5
00-206-331	1388	276	56	24.0	4	19.00	4.83	6.20	0.0054	0.0181	0.0031	3.38	0.05	< 0.5	10.05	< 5	140	< 0.5	< 2	6.6	< 0.5
00-206-332	1388	276	65	28.5	2	20.8	4.65	6.20	0.0049	0.0180	0.0031	3.25	0.02	< 0.5	10.98	< 5	70	< 0.5	< 2	7.8	< 0.5
00-206-333	1388	276	65	28.5	2	17.95	4.88	6.55	0.0038	0.0185	0.0032	3.41	0.01	< 0.5	9.49	< 5	80	< 0.5	< 2	6.7	< 0.5
00-206-334	1388	276	98	20.0	2	17.85	6.13	7.91	0.0048	0.0222	0.0040	4.29	0.03	< 0.5	9.45	< 5	60	< 0.5	< 2	6.9	< 0.5
00-206-335	1388	276	50	23.5	3	16.80	6.51	7.68	0.0061	0.0197	0.0040	4.55	0.08	< 0.5	8.89	< 5	60	< 0.5	< 2	6.5	< 0.5
00-206-336	1388	276	54	26.0	2	17.25	6.00	7.88	0.0052	0.0217	0.0039	4.20	0.06	< 0.5	9.14	< 5	70	< 0.5	< 2	6.6	< 0.5
00-206-337	1388	276	47	26.0	3	17.65	5.76	8.77	0.0035	0.0254	0.0040	4.03	0.02	< 0.5	9.34	< 5	80	< 0.5	< 2	6.8	< 0.5
00-206-338	1388	276	38	14.0	2	16.75	7.32	8.04	0.0082	0.0224	0.0046	5.12	0.12	< 0.5	8.87	< 5	110	< 0.5	< 2	6.6	< 0.5
00-206-339	1388	276	10	7.0	3	15.70	8.25	7.89	0.0198	0.0237	0.0052	5.77	0.23	< 0.5	8.30	< 5	80	< 0.5	< 2	6.6	< 0.5
00-206-340	1388	276	33	15.0	1	15.85	6.72	7.98	0.0037	0.0208	0.0041	4.70	0.03	< 0.5	8.40	< 5	120	< 0.5	< 2	6.4	< 0.5
00-206-341	1388	276	39	13.0	1	17.50	6.85	8.04	0.0062	0.0211	0.0041	4.79	0.04	< 0.5	9.27	< 5	360	< 0.5	< 2	6.2	< 0.5
00-206-342	1388	276	7	2.5	< 1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
00-206-343	1388	276	< 1	0.5	< 1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
00-206-344	1388	276	< 1	< 0.5	2	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
00-206-345	1388	276	< 1	< 0.5	< 1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
00-206-346	1388	276	< 1	< 0.5	< 1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
00-206-347	1388	276	< 1	< 0.5	< 1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
00-206-348	1388	276	< 1	< 0.5	< 1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
00-206-349	1388	276	< 1	< 0.5	< 1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
00-206-350	1388	276	< 1	< 0.5	< 1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
00-206-351	1388	276	< 1	< 0.5	< 1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
00-206-352	1388	276	< 1	< 0.5	< 1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
00-206-353	1388	276	< 1	< 0.5	< 1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
00-206-354	1388	276	< 1	< 0.5	< 1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
00-206-355	1388	276	< 1	< 0.5	< 1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
00-206-356	1388	276	< 1	< 0.5	< 1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
00-206-357	1388	276	< 1	< 0.5	< 1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
00-206-358	1388	276	< 1	< 0.5	< 1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
00-206-359	1388	276	< 1	< 0.5	2	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
00-206-360	1388	276	< 1	< 0.5	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
00-206-361	1388	276	2	< 0.5	< 1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

CERTIFICATION: \_\_\_\_\_

11/20/04 TEL: 1-800-387-2244 FAX: 905-624-6163



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2808 FAX: 905-624-6183

To: LAC DES ILES MINES LTD.-EXPLORATION  
 NORTH AMERICAN PALLADIUM  
 P.O. BOX 10547  
 THUNDER BAY, ON  
 P7B 6T9

Page Number :2-A  
 Total Pages :2  
 Certificate Date: 13-AUG-2001  
 Invoice No. :10121787  
 P.O. Number :1000186  
 Account :MZ1

Project : #1033-00-206  
 Comments: ATTN: MOE LAVIGNE

## CERTIFICATE OF ANALYSIS A0121787

SAMPLE	PREP CODE		Pd ppb	Pt ppb	Au ppb	Al2O3 % Calc	Fe2O3 % Calc	MgO % Calc	Cu % Calc	Ni % Calc	Co % Calc	Pb % (ICP)	S % (ICP)	Ag ppm (ICP)	Al % (ICP)	As ppm (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	
			ICP-MS	ICP-MS	ICP-MS																	
00-206-362	1388	276	< 1	< 0.5	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
00-206-363	1388	276	< 1	< 0.5	22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
00-206-364	1388	276	< 1	< 0.5	< 1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
00-206-365	1388	276	< 1	< 0.5	< 1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
00-206-366	1388	276	< 1	< 0.5	< 1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
00-206-367	1388	276	< 1	< 0.5	2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
00-206-368	1388	276	< 1	< 0.5	< 1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
00-206-369	1388	276	< 1	< 0.5	< 1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
00-206-370	1388	276	< 1	0.5	< 1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
00-206-371	1388	276	< 1	< 0.5	< 1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
00-206-372	1388	276	< 1	< 0.5	< 1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
00-206-87A-201	2140	290	3200	291	280	15.95	6.56	10.50	0.1235	0.1395	0.0065	4.59	0.35	< 0.5	8.44	< 5	60	< 0.5	< 2	5.9	< 0.5	

CERTIFICATION: +

11/20/02 WED 10:00 P.M. 004 004 004 0410

## Work Report Summary

Transaction No: W0240.01987 Status: APPROVED (D)  
 Recording Date: 2002-DEC-10 Work Done from: 2000-FEB-05  
 Approval Date: 2003-MAR-10 to: 2001-AUG-11

Client(s):  
 217699 LAC DES ILES MINES LTD.

Survey Type(s):  
 ASSAY PDRILL

**Work Report Details:**

Claim#	Perform	Perform Approve	Applied	Applied Approve	Assign	Assign Approve	Reserve	Reserve Approve	Due Date
G 4000189	\$5,342	\$5,342	\$0	\$0	\$0	0	\$5,342	\$5,342	
G 4000192	\$528,827	\$528,827	\$0	\$0	\$0	0	\$528,827	\$528,827	
	\$534,169	\$534,169	\$0	\$0	\$0	\$0	\$534,169	\$534,169	

External Credits: \$0

Reserve:  
 \$534,169 Reserve of Work Report#: W0240.01987  


---

 \$534,169 Total Remaining

Status of claim is based on information currently on record.



52H04NE2019 2.24642 LAC DES ILES

Date: 2004-SEP-09

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

Tel: (888) 415-9845

Fax:(877) 670-1555

LAC DES ILES MINES LTD.  
710 NORAH CRES  
THUNDER BAY, ONTARIO  
P7C 4T8 CANADA

**Submission Number:** 2.24642  
**Transaction Number(s):** W0240.01987

Dear Sir or Madam

**Subject: Deemed Approval of Assessment Work**

We have approved your Assessment Work Submission with the above noted Transaction Number(s) as per 6(7) of the Assessment Work Regulation. Only eligible assessment work is deemed approved for assessment work credit. The attached Work Report Summary indicates the results of the approval.

NOTE: The report has not been reviewed for technical deficiencies and reported expenses were not evaluated based on the Industry Standard.

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 STEVEN BENETEAU by email at [steve.beneteau@ndm.gov.on.ca](mailto:steve.beneteau@ndm.gov.on.ca) or by phone at (705) 670-5855.

Yours Sincerely,



Sheila Lessard  
Senior Manager(A), Mining Lands Section

**Cc:** Resident Geologist

Paul Erik Nielsen  
(Agent)

Lac Des Iles Mines Ltd.  
(Assessment Office)

Assessment File Library

Lac Des Iles Mines Ltd.  
(Claim Holder)

Date / Time of Issue: Thu Oct 21 10:55:24 EDT 2004

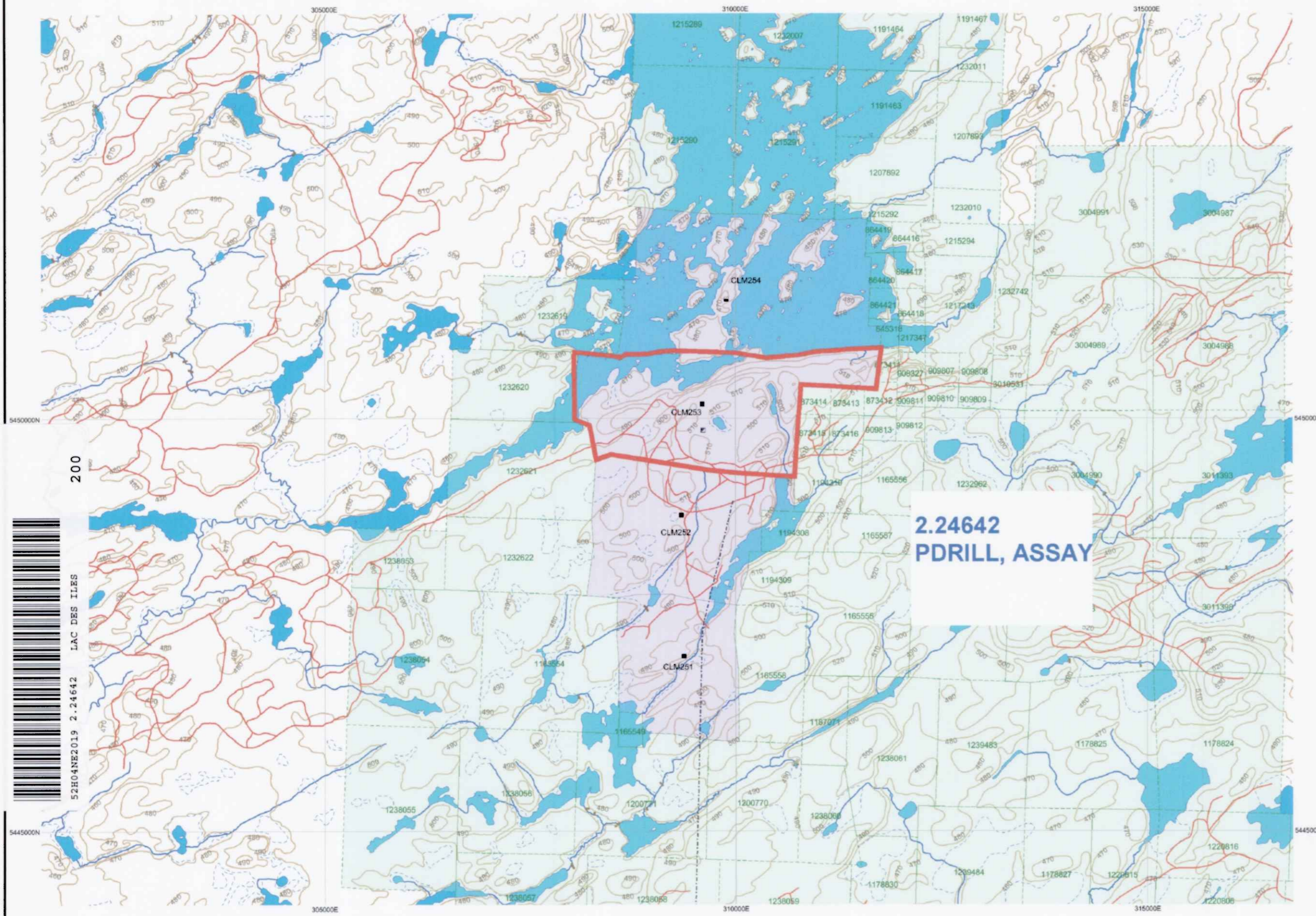
TOWNSHIP / AREA  
LAC DES ILES AREA

PLAN  
G-0739

ADMINISTRATIVE DISTRICTS / DIVISIONS

Mining Division  
Land Titles/Registry Division  
Ministry of Natural Resources District

Thunder Bay  
THUNDER BAY  
THUNDER BAY

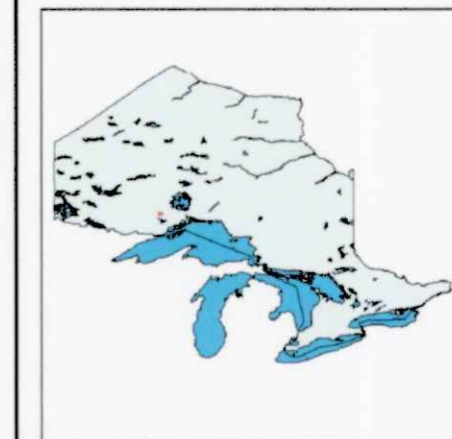


TOPOGRAPHIC

- Administrative Boundaries
- Township
- Concession, Lot
- Provincial Park
- Indian Reserve
- Cliff, Pit & Pile
- Contour
- Mine Shafts
- Mine Headframe
- Railway
- Road
- Trail
- Natural Gas Pipeline
- Utilities
- Tower

Land Tenure

- Freehold Patent**
  - Surface And Mining Rights
  - Surface Rights Only
  - Mining Rights Only
- Leasehold Patent**
  - Surface And Mining Rights
  - Surface Rights Only
  - Mining Rights Only
- Licence of Occupation**
  - Uses Not Specified
  - Surface And Mining Rights
  - Surface Rights Only
  - Mining Rights Only
  - Land Use Permit
  - Order In Council (Not open for staking)
  - Water Power Lease Agreement
- Mining Claims**
  - Mining Claim
  - Filed Only Mining Claims
- LAND TENURE WITHDRAWALS**
  - Areas Withdrawn from Disposition
  - Mining Acts Withdrawal Types
    - Wsm Surface And Mining Rights Withdrawn
    - Ws Surface Rights Only Withdrawn
    - Wm Mining Rights Only Withdrawn
  - Order In Council Withdrawal Types
    - W'sm Surface And Mining Rights Withdrawn
    - W's Surface Rights Only Withdrawn
    - W'm Mining Rights Only Withdrawn
- IMPORTANT NOTICES**
  - Important Notices



Those wishing to stake mining claims should consult with the Provincial Mining Recorders' Office of the Ministry of Northern Development and Mines for additional information on the status of the lands shown hereon. This map is not intended for navigational, survey, or land title determination purposes as the information shown on this map is compiled from various sources. Completeness and accuracy are not guaranteed. Additional information may also be obtained through the local Land Titles or Registry Office, or the Ministry of Natural Resources.

The information shown is derived from digital data available in the Provincial Mining Recorders' Office at the time of downloading from the Ministry of Northern Development and Mines web site.

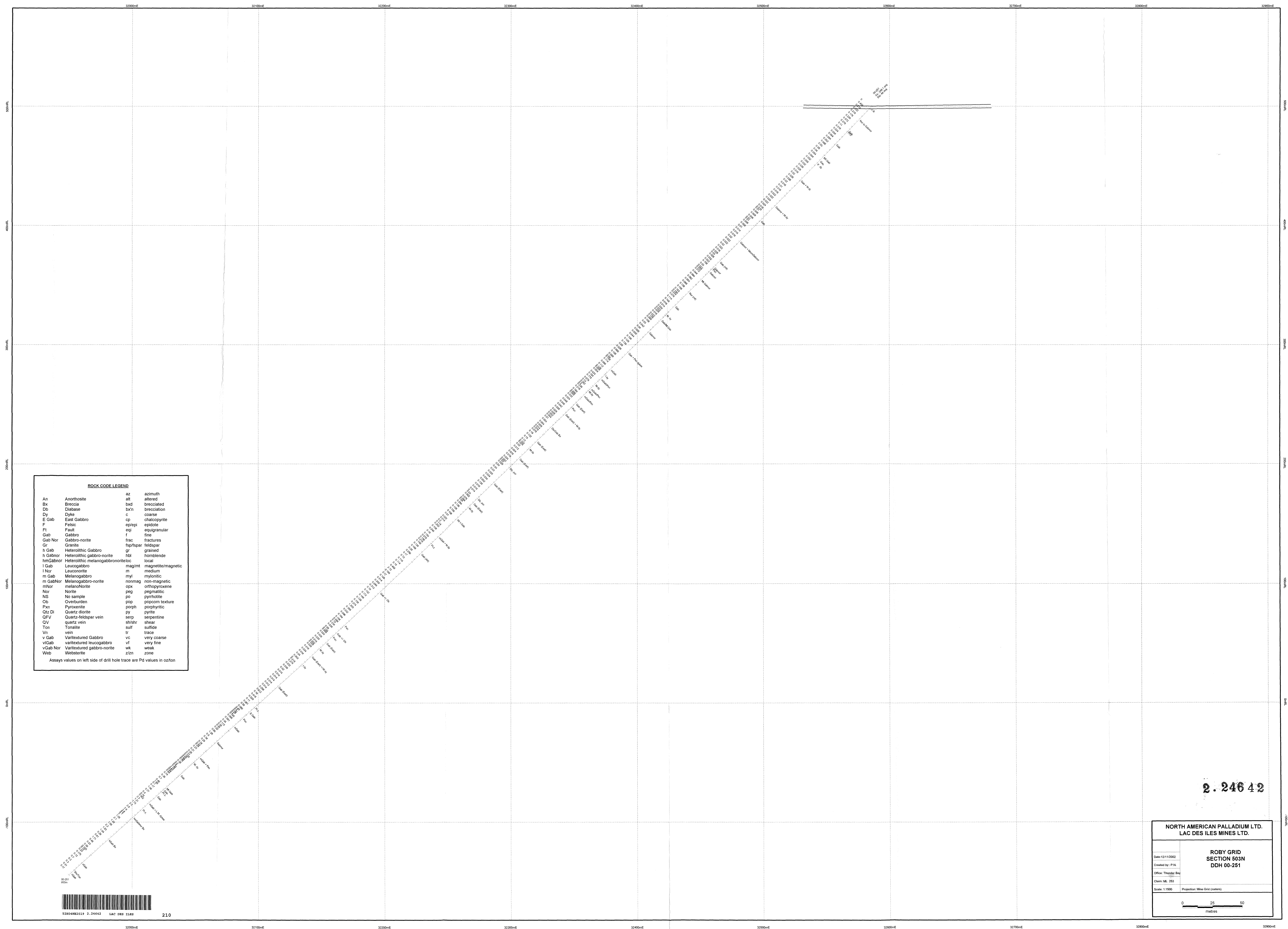
**General Information and Limitations**  
 Contact Information:  
 Provincial Mining Recorders' Office  
 Willet Green Miller Centre 933 Ramsey Lake Road  
 Sudbury ON P3E 6B5  
 Home Page: [www.mndm.gov.on.ca/MNDMMINESLANDS/misampg.htm](http://www.mndm.gov.on.ca/MNDMMINESLANDS/misampg.htm)

Toll Free  
 Tel: 1 (888) 415-9845 ext 57  
 Fax: 1 (877) 670-1444

Map Datum: NAD 83  
 Projection: UTM (6 degree)  
 Topographic Data Source: Land Information Ontario  
 Mining Land Tenure Source: Provincial Mining Recorders' Office

This map may not show unregistered land tenure and interests in land including certain patents, leases, easements, right of ways, flooding rights, licences, or other forms of disposition of rights and interest from the Crown. Also certain land tenure and land uses that restrict or prohibit free entry to stake mining claims may not be illustrated.

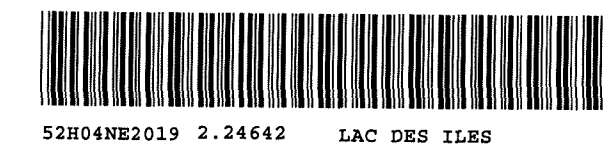
00-251



**ROCK CODE LEGEND**

An	Anorthosite	az	azimuth
Bx	Breccia	all	altered
Db	Dabase	bxd	brecciated
Dy	Dyke	bx'n	brecciation
E Gab	East Gabbro	c	coarse
F	Felsic	cp	chalcopyrite
Fl	Fault	ep/epi	epidote
Gab	Gabbro	eqj	equigranular
Gab Nor	Gabbro-norite	f	fine
Gr	Granite	frac	fractures
H Gab	Heterolithic Gabbro	fsp/psp	feldspar
H GabNor	Heterolithic gabbro-norite	gr	grained
hmGabNor	Heterolithic melanogabbro-norite	hbl	hornblende
I Gab	Leucogabbro	loc	local
I Nor	Leuconorite	mag/mt	magnetite/magnetic
m Gab	Melanogabbro	m	medium
m GabNor	Melanogabbro-norite	myl	mylonitic
mNor	melanoNorite	nonmag	non-magnetic
Nor	Norite	opx	orthopyroxene
NS	No sample	peg	pegmatic
Ob	Overburden	py	pyrite
Pen	Pyroxenite	pop	popcorn texture
Qtz Di	Quartz diorite	pphp	porphyritic
QFV	Quartz-feldspar vein	py	pyrite
QV	quartz vein	serp	serpentine
Ton	Tonalite	shsh	shear
Vn	vein	sulf	sulfide
v Gab	Varitextured Gabbro	tr	trace
v Gab	Varitextured Gabbro	vc	very coarse
v Gab	Varitextured leucogabbro	vf	very fine
v Gab Nor	Varitextured gabbro-norite	wk	weak
Web	Weibsterite	zrn	zircon

Assays values on left side of drill hole trace are Pd values in oz/ton



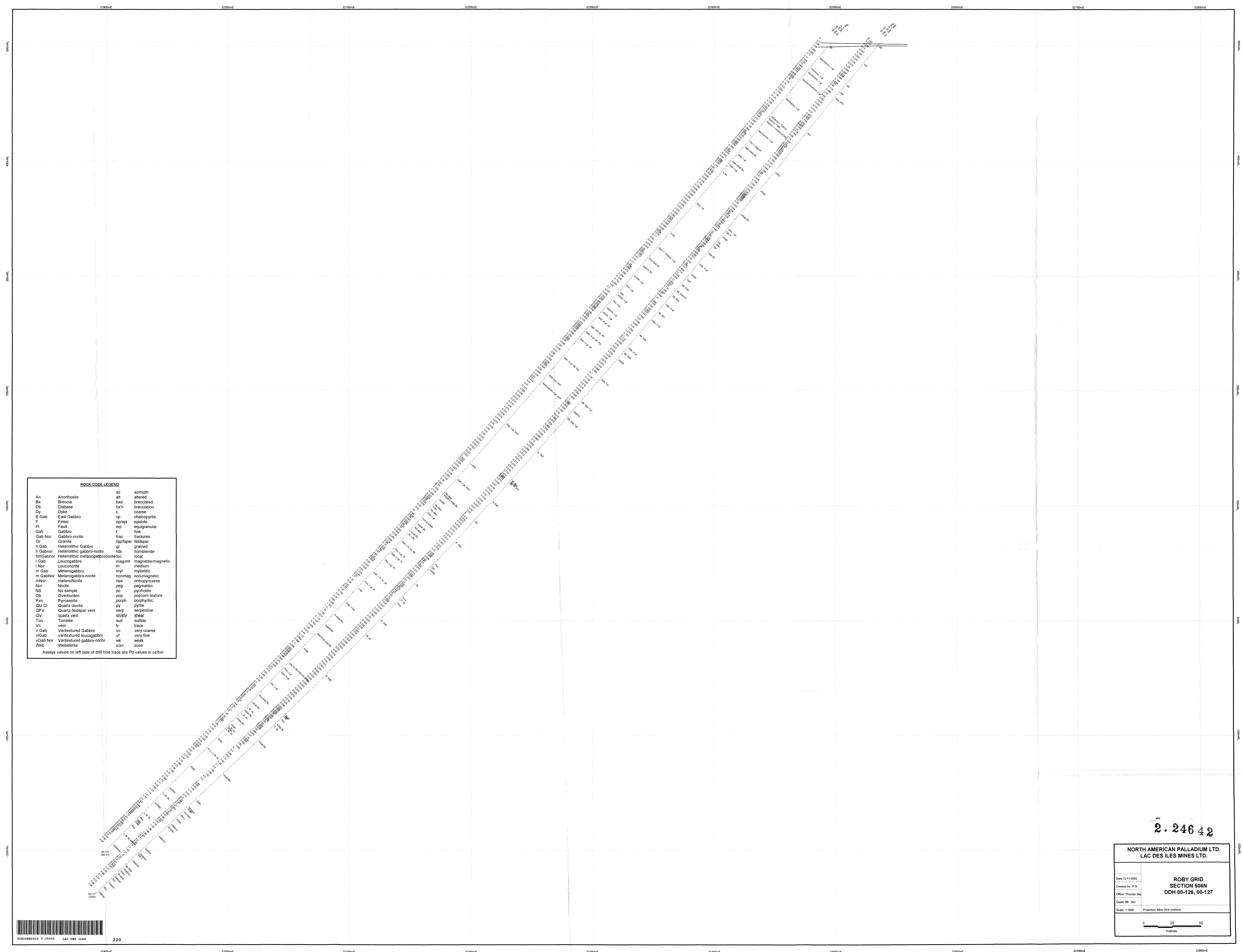
2 246 42

**NORTH AMERICAN PALLADIUM LTD.  
LAC DES ILES MINES LTD.**

**ROBY GRID  
SECTION 503N  
DDH 00-251**

Date: 12/11/2005  
Created by: P.A.  
Office: Thunder Bay  
Claim: M.L. 253  
Scale: 1:1500 Projection: UTM (zones)

00-126 00-127



ROCK CODE LEGEND

An	Anorthosite	az	azimuth
Bx	Breccia	ast	altered
Dp	Diabase	bxw	brecciation
Dy	Dyke	c	coarse
E Gab	East Gabbro	cp	chalcopyrite
F	Felsic	ep	epidote
Ft	Fault	epg	equigranular
Gab	Gabbro	f	fine
Gab Nor	Gabbro-norte	frac	fractures
Gr	Granite	fsp/psp	feldspar
h Gab	Heterolithic Gabbro	gr	grained
h Gabnor	Heterolithic gabbro-norte	hsl	hornblende
hm Gabnor	Heterolithic melanogabbro-norte	loc	local
I Gab	Leucogabbro	magmt	magnetite/magnetic
I Nor	Leuconorite	m	medium
m Gab	Melanogabbro	myl	mylonitic
m Gabnor	Melanogabbro-norte	normag	non-magnetic
mNor	Melanonorite	ogr	orthopyroxene
Nor	Norite	peg	pegmatitic
NS	No sample	po	pyroxite
Ob	Overturn	pop	popcorn texture
Pxn	Pyroxenite	porph	porphyritic
Qz Di	Quartz diorite	py	pyrite
QV	Quartz-feldspar vein	serp	serpentine
QV	quartz vein	sh/shr	shear
Tn	Tonalite	sulf	sulfide
Vn	vein	tr	trace
v Gab	Varif textured Gabbro	vc	very coarse
v Gab	varif textured leucogabbro	vf	very fine
v Gab Nor	Varif textured gabbro-norte	wt	weak
Web	Websterite	z/z	zone

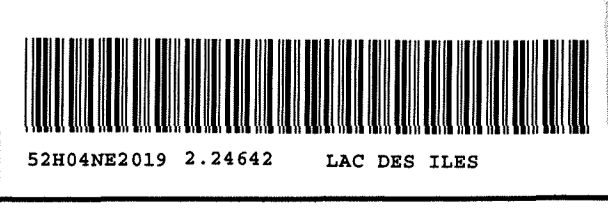
Assays values on left side of drill hole trace are Pd values in oz/ton

2.24642

NORTH AMERICAN PALLADIUM LTD.  
LAC DES ILES MINES LTD.

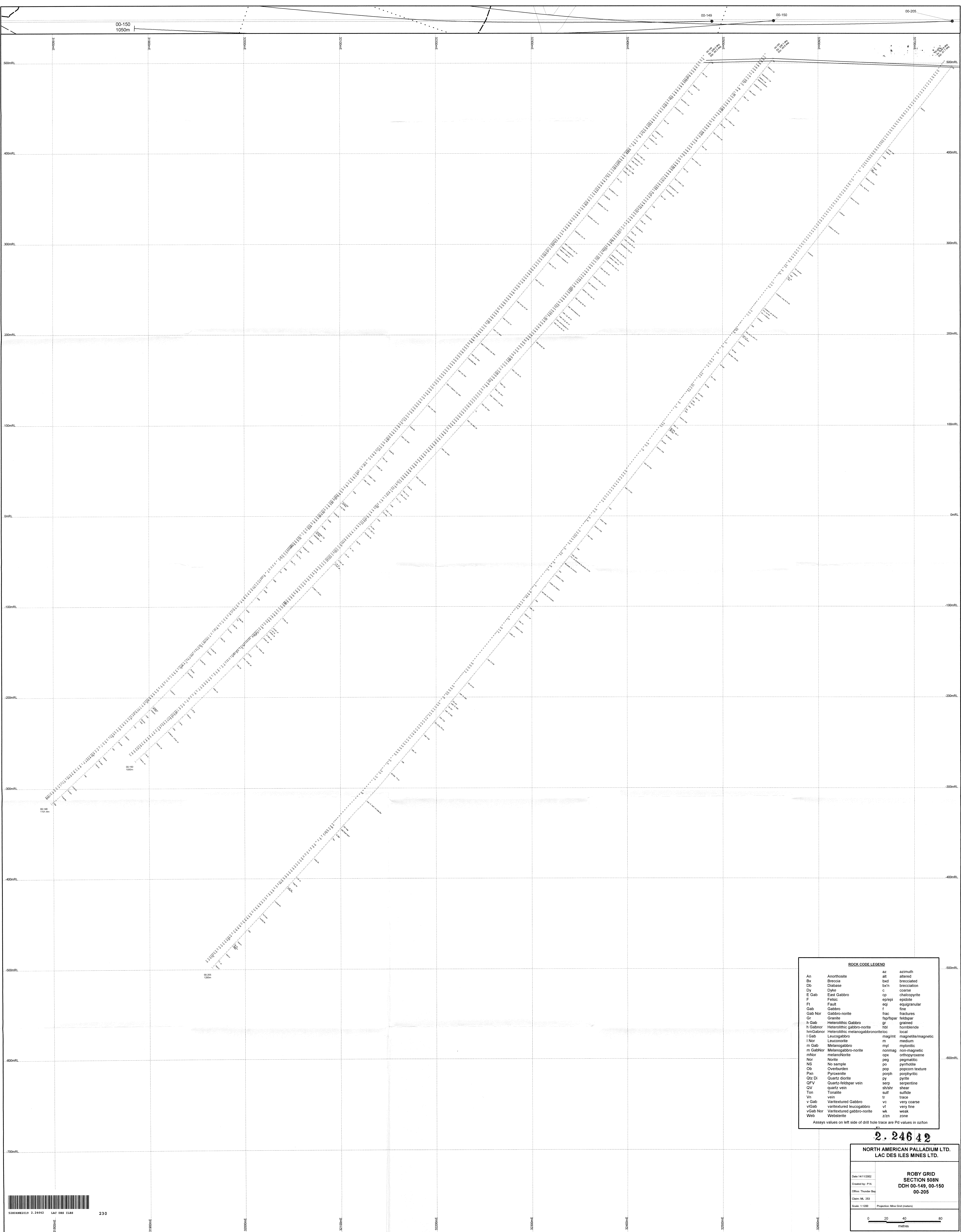
ROBY GRID  
SECTION 506N  
DDH 00-126, 00-127

Date: 12/11/2002  
Created by: P.N.  
Office: Thunder Bay  
Claim: M. 253  
Scale: 1:5000 Projection: Mine Grid (metres)



31900E 32000E 32100E 32200E 32300E 32400E 32500E 32600E 32700E 32800E





**ROCK CODE LEGEND**

An	Anorthosite	az	azimuth
Bx	Breccia	alt	altered
Db	Diabase	brd	brecciated
Dy	Dyke	bx'n	brecciation
E Gab	East Gabbro	c	coarse
F	Felsic	co	chalcopryite
Gab	Gabbro	ep/epi	epidote
Gab Nor	Gabbro-norite	eqi	equigranular
Gr	Granite	f	fine
h Gab	Heterolithic Gabbro	frac	fractures
h GabNor	Heterolithic gabbro-norite	fsptpar	feldspar
hm GabNor	Heterolithic melanogabbro-norite	gr	grained
I Gab	Leucogabbro	hbl	hornblende
I Nor	Leuconorite	lcl	local
m Gab	Melanogabbro	mag/mt	magnetite/magnetic
m GabNor	Melanogabbro-norite	m	medium
mNor	Norite	myl	mylonitic
Nor	Norite	nonmag	non-magnetic
NS	No sample	opx	orthopyroxene
OB	Overburden	pgp	pegmatitic
Pxn	Pyroxenite	po	pyrrhotite
Qtz Di	Quartz diorite	pop	popcorn texture
QV	Quartz-feldspar vein	porph	porphyritic
QV	quartz vein	py	pyrite
Ton	Tonalite	serp	serpentine
Vs	vein	sh	shear
v Gab	Varitextured Gabbro	st/str	staurolite
v Gab Nor	Varitextured leucogabbro	sulf	sulfide
Web	Websterite	tr	trace
		vc	very coarse
		vf	very fine
		wk	weak
		z/zn	zone

Assays values on left side of drill hole trace are Pd values in oz/ton

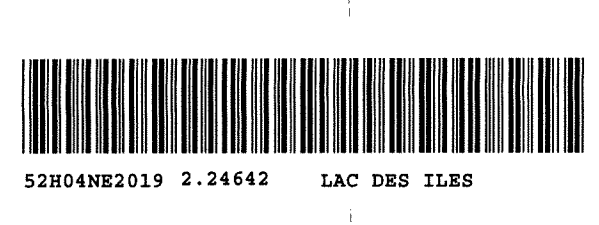
**2. 246 42**

**NORTH AMERICAN PALLADIUM LTD.  
LAC DES ILES MINES LTD.**

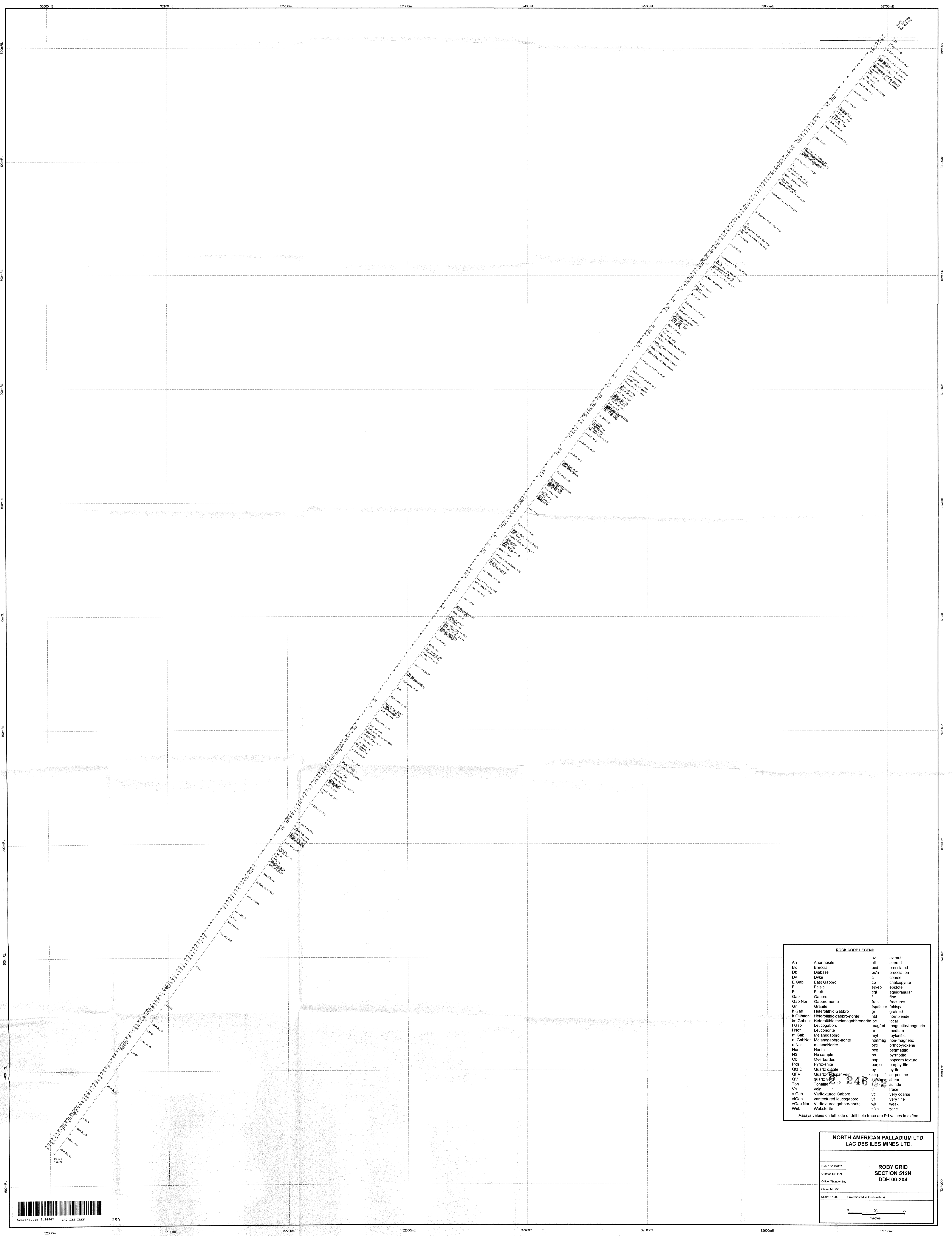
**ROBY GRID  
SECTION 508N  
DDH 00-149, 00-150  
00-205**

Date: 14/11/2002  
Created by: P.N.  
Office: Thunder Bay  
Claim: ML 253  
Scale: 1:1000  
Projection: Merc Grid (metres)

0 20 40 80  
metres







**ROCK CODE LEGEND**

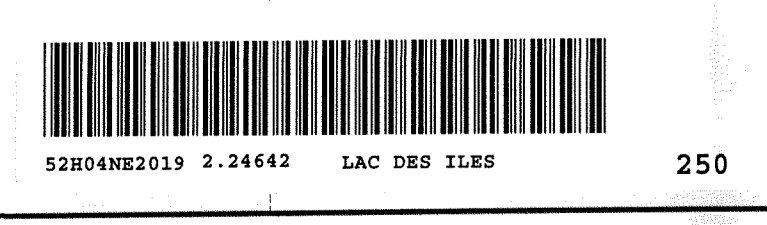
An	Anorthosite	az	azimuth
Dx	Diorite	alt	altered
Db	Diorite	brd	brecciated
Dy	Dyke	brn	brecciation
E Gab	East Gabbro	c	coarse
F	Felsic	cp	chalcopyrite
Fl	Fault	epst	epistyle
Gab	Gabbro	eqj	equigranular
Gab Nor	Gabbro-norite	f	fine
Gr	Granite	frac	fractures
h Gab	Heterolithic Gabbro	fsp/psp	feldspar
h Gabnor	Heterolithic gabbro-norite	gr	grained
hmGabnor	Heterolithic melanogabbro-norite	hbl	hornblende
I Gab	Leucogabbro	loc	local
I Nor	Leuconorite	magmt	magnetite/magnetic
m Gab	Melanogabbro	m	medium
m Gabnor	Melanogabbro-norite	myl	mylonitic
mNor	Melanonorite	normag	non-magnetic
Nor	Norite	opx	orthopyroxene
NS	No sample	peg	pegmatitic
Ob	Overburden	py	pyroxenite
Px	Pyroxenite	pop	popcorn texture
Qtz Di	Quartz dike	porph	porphyritic
QFV	Quartz-feldspar vein	pyz	pyroxite
QV	quartz vein	serp	serpentine
Ton	Tonalite	shear	shear
Vn	vein	sulf	sulfide
v Gab	Varitextured Gabbro	tr	trace
vGab	varitextured leucogabbro	vc	very coarse
vGab Nor	Varitextured gabbro-norite	vf	very fine
Web	Websterite	wk	weak
		z/zn	zone

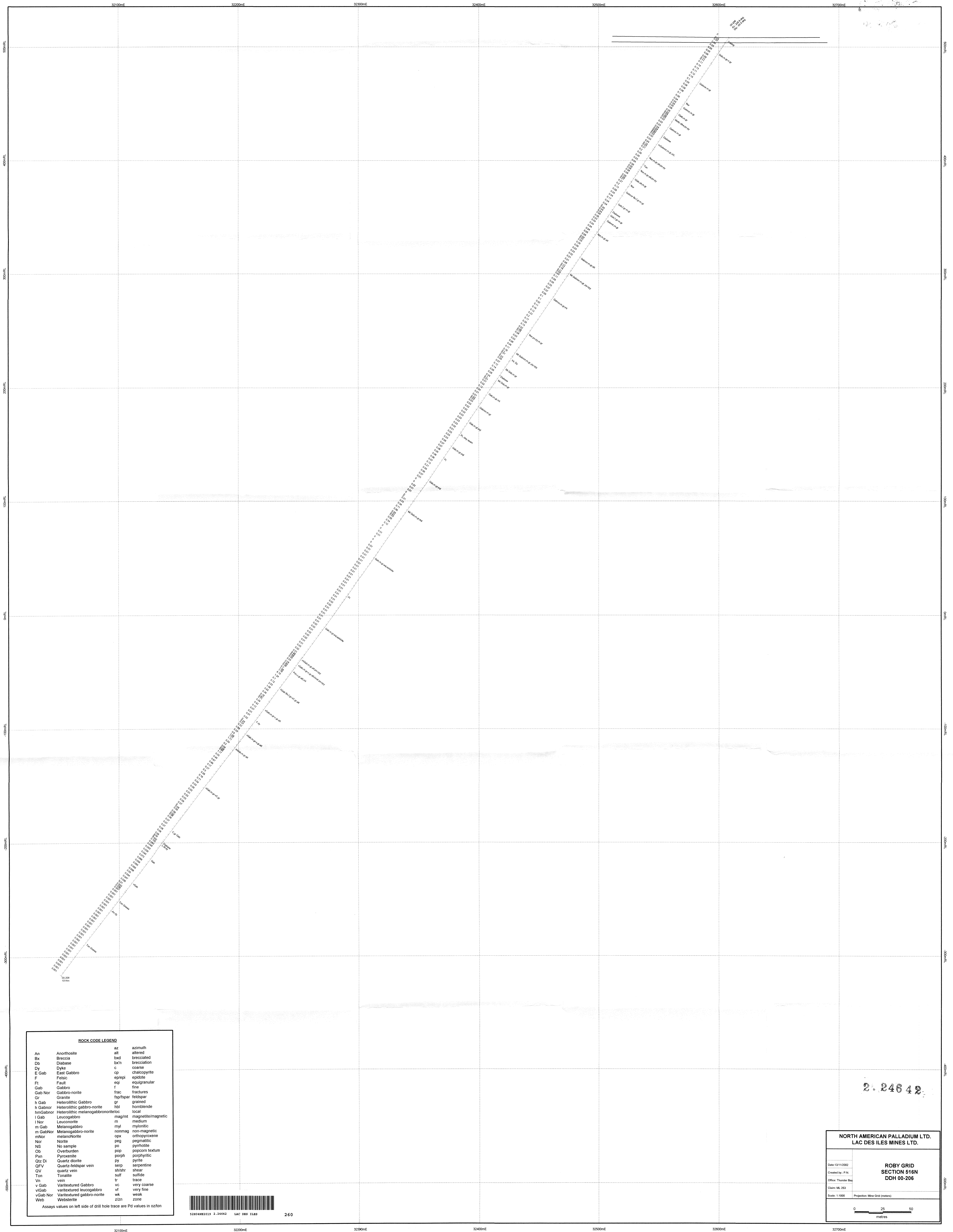
Assays values on left side of drill hole trace are Pd values in oz/ton

**NORTH AMERICAN PALLADIUM LTD.  
LAC DES ILES MINES LTD.**

**ROBY GRID  
SECTION 512N  
DDH 00-204**

Date: 13/11/2005  
Created by: P.A.  
Office: Thunder Bay  
Claim: M. 253  
Scale: 1:1250  
Projection: UTM Grid (meters)

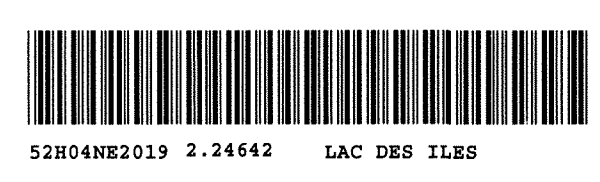




**ROCK CODE LEGEND**

An	Anorthosite	az	azimuth
Bx	Breccia	alt	altered
Db	Diabase	brd	brecciated
Dy	Dyke	bxh	brecciation
E Gab	East Gabbro	c	coarse
F	Felsic	cp	chalcopyrite
Fl	Fault	ep/epi	epidote
Gab	Gabbro	eqi	equigranular
Gab Nor	Gabbro-norite	f	fine
Gr	Granite	frac	fractures
h Gab	Heterolithic Gabbro	fsprfspar	feldspar
h Gabnor	Heterolithic gabbro-norite	gr	grained
hmGabnor	Heterolithic melanogabbro-norite	hbl	hornblende
I Gab	Leucogabbro	loc	local
I Nor	Leuconorite	magnt	magnetite/magnetic
m Gab	Melanogabbro	m	medium
m GabNor	Melanogabbro-norite	myl	mylonitic
mNor	melanoNorite	nmag	non-magnetic
Nor	Norite	opx	orthopyroxene
NS	No sample	peg	pegmatitic
Ob	Overburden	po	pyrrhotite
Pxn	Pyroxenite	pop	popcorn texture
Qz Di	Quartz diorite	pph	porphyritic
QFV	Quartz-feldspar vein	pyr	pyrite
QV	quartz vein	serp	serpentine
Ton	Tonalite	shst	shear
Vn	vein	stf	sulfide
v Gab	Varitextured Gabbro	tr	trace
v Gab Nor	Varitextured leucogabbro	vc	very coarse
v Gab Nor	Varitextured gabbro-norite	vf	very fine
Web	Wieselerite	wk	weak
		zrn	zircon

Assays values on left side of drill hole trace are Pd values in calton



2. 246 42

**NORTH AMERICAN PALLADIUM LTD.  
LAC DES ILES MINES LTD.**

**ROBY GRID  
SECTION 516N  
DDH 00-206**

Date: 13/11/2002  
Created by: P.N.  
Office: Thunder Bay  
Claim: M. 253  
Scale: 1:1000 Projection: Minn Grid (metres)