Hole_ID	mFrom	mTo	Lith_Plot	Lith1_Code	Lith1_Text	Colour	Oxidation	Alt1_Code	Alt1_Int	Alt1_Style	Min1_Code	Min1_Pct	Min1_Style	Min2_Code	Min2_Pct	Min3_Code	Min3_Pct	Min4_Code	Min4_Pct	Vein1_Com	Vein1_Styl	Vein1_Pct	Vein2_Com	Vein2_Styl	Vein2_Pct	Comments
MCL01	0	4.1		WY	Fg	Dbr	fr																			Overburden/Fill from existing workings. Mix Qtz chips shales/clays.
MCL01	4.1	4.4		SL	Fg	Dgy	fr																			Liminated siltstone, shales with small qtz chips.
MCL01	4.4	4.5		QTZ	Fg	Pgy	fr																			Narrow band medium sized Qtz chips upto 4cm in size.
MCL01	4.5	8		SL	Fg	Pgy	fr																			Plae siltstone, not laminated small Qtz chips present but decreasing towards end of
MCL01	8	9		SL	Fg	Pgy	fr																			Gravel/Sand/Siltstone mix composed of small chips, phyllite?.
MCL01	9	10.2		SL	Fg	Pgy	fr																			Very fine siltstone with uniform texture, and colour. No evidence of shales.
MCL01	10.2	10.3		SL	Fg	Dgy	Fr																			Loose siltstone mix qtz chips/gravels.
MCL01	10.3	12		SL	Fg	Pgy	Fr																			Siltstone/ sands
MCL01	12	13		CL																						
MCL01	13	15.3		SL	Fg	Gy	Fr																			Mottled Clay/siltstone fine grain no chips, harber material mixed with brown clays
MCL01	15.3	15.77		SH	Fg	Gy	Fr																			Shale units/siltstone/ carbonaceous in places.
MCL01	15.8	16		SD	Fg	Pgy	Fr																			Small band of silicified sandstone
MCL01	16	16.3		SH		Dgy	Fr																			Shale puggy
MCL01	16.3	21		SHB	Fg	Bk	fr	Sul	3	Dsm	py	1		sph	0.5	gal	1									Black Shale, interbound with pale shale/siltstone.16.17 - 17.0m Lighter shale unit small gravels/QTZ chips. Disseminated pyrite throughout unit with an abundance
MCL01	21	22		CL			fr																			
MCL01	22	24		WA	Cg	BK	fr	Sul	2	Dsm	py	0.5				gal	0.1									Sand/gravel mixture well sorted small qtz chips. Disseminated pyrite throughout unit. Decrease in Galena, no evidence of sphalerite.
MCL01	24	25.3		CL																						
MCL01	25.3	26		SH	Fg		fr																			Shale unit/ wood chips? Workings? Laminated shale/phyllite chips. No sulphides
MCL01	26	31.37		SHB	Fg	BK	fr	Sul	3	Dsm	py	1				gal	1									Black shale unit. Mineralized throughout, uniform texture and grain size, pyrites and Galena disseminated. Increase in galean is associated with presence of QTZ chips.
MCL01	31.37	32		SH	Fg	Dgy	fr																			Lighter shale unit no mineralization or sulphides. Waterlogged clay material
MCL01	32	33		CL																						
MCL01	33	36		WY	vfg	Bryl	fr																			Clays, brown waterlogged, poor recovery workings? Uniform texture
MCL01	36	37		CL																						
MCL01	37	39		WY	Fg	Bryl	fr																			Brown clays
MCL01	39	42		CL																						
MCL01	42	42.9		WY	Fg	Bryl	fr																			Brown/yellow clays, mixture of material, waterlogged workings?
MCL01	42.9	43.3		SHB	Fg	Bk	fr	sul	2	Dsm	py	0.5				gal	0.5									Black Shale Fine grained, traces of disseminated pyrite and galena. Small QTZ fragments indicate mineralization is associated with QTZ veins.
MCL01	43.3	44.2		SL	Fg	Dgy	fr																			Siliceous hard siltstone at contact with small thin Qtz, calcite veins upto 2cm in
MCL01	44.2	53.8		SH	Fg	Dgy	fr																			Graphitic black carbonaceous shale. Very well laminated evidence of shear. QTZ veins throughout unit. No evidence of black pug or mineralization as with black
MCL02	0	1		SL	FG	PGY	FR																			Siltstone with intermixed gravels, Qtz Chips
MCL02	1	6.5		SL	FG	PGY	FR																			Fine Grained chips, possible phyllite chips? 9.8m - 10 band of sandstone quartzite
MCL02	6.5	11.3		SL	FG	PGY	FR																			Siltstone/shales
MCL02	11.3	12		SHB	FG	DGY	FR																			Distinct sharp contact, traces of pyrite. Hard sandstone/quartzite present at contact
MCL02	12	15		SHB	FG	DGY	FR				py	0.5		sph	0.1	gal	0.5									Dark carbonaceous shale, disseminated pyrite signs of galena and traces of sphalerite at 13.6m. Minor traces of well defined euhedral Qtz crystals.
MCL02	15	17.7		SHB	FG	DGY	FR				py	1		sph	0.5	gal	1									Mottled black clay/shale with interbound light pale grey siltstone. Disseminated pyrite. Harder quartzite/sandstone band 6.10m - 6.20m
MCL02	17.7	20.5		SHB	FG	DGY	FR				py	0.1		sph	0.1	gal	0.1									Same as interval described above much more pale with less carbonaceous material. Increase in siltstone/ mottled clays. Decrease in sulphides. Small Qtz chips/Phyllite
MCL02	20.5	27.3		SL	FG	DGY	FR																			Lighter siltstone, QTZ chips. Siliceous siltstone, qtz veins throughout. Presence of carbonates? Poor recovery zone. Workings?
MCL02	27.3	29		SH	FG	BK	FR																			Graphitic carbonaceous shale with distinct shearing.
MCL02	29	31.3		WY	CG	DGY	FR																			Well sorted Sand/broken uni, Qtz grains and pyrite througout unit.
MCL02	31.3	42.1		SH	FG	DGY	FR													QTZ	VN					Small traces pyrite black shale/slate/graphitic. Evidence of shearing, QTZ veins.
MCL02	42.1	42.8		SH	FG	DGY	FR													QTZ	VN					Large QTZ veins present, minor pyrite hard foliated shales.
MCL02	42.8	45.2		QTZ	FG	PGY	FR													QTZ	VN		CAL	VN		Minor traces of pyrite, throughout unit. Cerrusite quartzite unit.
MCL02	45.2	50.2		SL	FG	BK	FR				py	0.1								QTZ	VN		CAL	VN		Carbonaceous silicified siltstone unit. Thin calcite veins finely laminated.
MCL02	50.2	61.2		SL	FG	GY	FR													QTZ	VN		CAL	VN		Carbonaceous silicified siltstone laminated with minor thin calcite/qtz veins. Large coarse qtz veins towards end of the unit. Evidence of graphitic schist. Yellow/Brown Fe staining through thin Qtz veins. Large Qtz veins associated with the occurrence of
MCL03	0	3.6		CL																						Core Loss
MCL03	3.6	4.9		WV	Mg	Pgy	fr																			Rubble Alluvium
MCL03	4.9	17.1		SL	Vfg	Pgy	fr																			Laminated Siltstone, Interbeddeed sands, phyllites
MCL03	17.1	22.3		SL	Fg	Pgy	fr																			Coarse, mixture of sands
MCL03	22.33	25.8		SL	Vfg	Pgy	fr																			Very fine grain siltstone, qtz sands/chips present gradation into black shale
MCL03	25.8	27		SHB	Fg	BK	fr				py	1		gl	1											Fine disseminated pyrite and traces of galena, black shales with lighter mixed shales
MCL03	27	28.8		SHB	Fg	Bk	fr				py	1		gl	1											Very Dark shale, fine grained galena.
MCL03	28.8	31		SH	Fg	Dgy	fr				py	1		gl	2											Dark/light shales interbedded indicating deformation
MCL03	31	31.7		SH	Fg	Dgy	fr				py	2		gl	2											Coarser shale unit containing Qtz Chips, mottled clay? Siltstone? Fine grained
MCL03	31.7	32.6		SHB	Fg	Bk	fr				py	3		gl	1											Sulphides increasing, Dark shale, Increasing pyrite towards end of interval
MCL03	32.6	33.1		SHB	Fg	Bk	fr				py	8		gl	1											Fine grained black shale increase in pyrite
MCL03	33.1	34		SH	Fg	Gy	fr																			Lighter shale unit.
MCL03	34	34.6		CL			fr																			
MCL03	34.6	38.2		SL	Fg	Bryl	fr																			Light siltstone, foliated shales coarse grained Qtz Chips
MCL03	38.2	39.1		CL			fr																			
MCL03	39.1	42.7		SL	Fg	Dgy	fr																			Siltstone/shales, strong foliation
MCL03	42.7	44		SL	Vfg	Pgy	fr																			Siltstone/shales, strong foliation
MCL03	44	46		SL	Fg	Gy	fr																			Quartz vein 45.65. Deformation in unit with Fe Stone.
MCL03	46	47.2		CL			fr																			Core Loss
MCL03	47.2	54.3		SL	Mg	Pbr	fr																			Laminated shale/siltstone, with Fe Stone present. Deformation and shearing
MCL03	54.3	54.8		SL	Cg	Bryl	fr																			Coarse grained with small amounts of pyrite. Maybe sign of workings due to sudden
MCL04	0	2		WV		PGY	fr																			Tertiary gravel cover

Hole_ID	mFrom	mTo	Lith_Plot	Lith1_Code	Lith1_Text	Colour	Oxidation	Alt1_Code	Alt1_Int	Alt1_Style	Min1_Code	Min1_Pct	Min1_Style	Min2_Code	Min2_Pct	Min3_Code	Min3_Pct	Min4_Code	Min4_Pct	Vein1_Con	Vein1_Styl	Vein1_Pct	Vein2_Con	Vein2_Styl	Vein2_Pct	Comments
MCL04	2	5		WY	VFG	GYBR	fr																			Light grey to brown clay after phyllite, containing remnant fragments and grit
MCL04	5	8.4		SL		BR	fr																			Dark brown fawn coloured siltstone and clayey interbeds. Siltstone highly decomposed to a gravel or rubble. Ferruginous staining responsible for colour. Poor
MCL04	8.4	10		WA	MG	DBR	fr																			Dark brown to white medium to coarse-grained sand probably derived from enclosing units. Large quartz pebbles likely to have fallen from collar of hole
MCL04	10	32.5		SL	LM	BR	fr																			Medium brown to fawn coloured siltstone/phyllite. Highly decomposed and ferruginous. Fine laminations visible in places @ 40 degrees to L.C.A. Remnant quartz fragments representing fractured quartz veining in places. Increase in
MCL04	32.5	37.3		SL	IBD	BR	fr																			Transition zone of moderately carbonaceous siltstone with black shale interbeds. Siltstone vuggy in places, probably indicating leached pyrite cavities. Narrow 1-2cm black shale bands are associated with increase in fine grained disseminated pyrite
MCL04	37.3	64.5		SHB	FG	BK	fr																			Black Pug and Grits. Interval composed of black shale fragments, quartz fragments and black clay. Fine-grained disseminated pyrite throughout. Coarse-grained drusy
MCL04	64.5	77		SL	LM	CRM	fr																			Siltstone Clay. Cream to buff-coloured siltstone strongly weathered and disaggregated to pug. Unit becoming fresher towards the lower contact. Fine-
MCL04	77	93.7		SHB	VFG	BK	fr																			Black Shale and Mud. Decomposed black shale unit representing a strongly deformed and shattered, quartz veined and pyritic, graphitic shale. Unit becomes more graphitic towards the lower contact. 4-5cm pyrite-sphalerite-quartz vein
MCL04	93.7	105.9		SD	MG	PGY	fr																			Sandstone siltstone. Light grey to fawn-coloured siltstone and sandstone. Strongly weathered and decomposed with minor graphitic shaley narrow interbeds. Very poor recovery. Very fine-grained disseminated pyrite particularly in graphite
MCL05	0	2.6		WV	FG	Wh	FR																			Qtz gravel fragments upto 7cm in size
MCL05	2.6	4.7		WY	FG	DBr	FR																			Brown clay with intertwinned black clay shale, small gravels and grit
MCL05	4.7	5.7		WV	FG	DBr	FR																			Alluvium containing phyllite gravel pieces
MCL05	5.7	6.7		CL			FR																			Core Loss
MCL05	6.7	13.1		SL	MG	DBr	FR																			Siltstone highly weatherd with clays/sands, gravels towards end of unit.
MCL05	13.1	22.5		SL	FG	Br	FR	SUL	1	DSM	py	0.1														Brokedn Fawned siltstone weathered with mudstone? Well laminated in places,
MCL05	22.5	28		SH	FG	Gy	FR	SUL	1	DSM	py	2								QTZ	VN	10		VN	10	Siltstone - Shale unit silicified small QTZ veining present with associated disseminated pyrite throughout carbonaceous shale.
MCL05	28	31.9		SD	FG	Gy	FR	SUL	1	DSM	py	1														Sandstone unit uniform in texture and formation, fine disseminated pyrite present
MCL05	31.9	36.9		SH	FG	Bk	FR																			Graphitic carbonaceous shell unit well laminated. No mineralization or QTZ veining.
MCL05	36.9	38.5		SH	FG	Dgy	FR	SUL	1	DSM	py	2								QTZ	VN	10		VN	10	Shale, QTZ veins present and silicified Siltstone. QTZ upto 2cm wide associated with disseminated pyrite increasing towards end of unit (siltstone contact).
MCL05	38.5	41		SL	MG	DBr	FR																			Loose sandstone/siltstone gravel, broken unit at contact, Fe staining associated with pyrite in previous unit. Fabric/bedding same orientation to core.
MCL05	41	53.4		SL	FG	Pgy	FR	SUL	1		py	0.1														Broken loose sandstone/siltstone small QTZ chips. Fine sand between 48-53.2. Traces of very fine disseminated Pyrite 47.4m
MCL05	53.4	58.3		SL	Vfg	Pgy	FR	SUL	1	DSM								gal	2							Siltstone, Fine Grain. Traces of Galena throughout upto 2cm in size. Large Galena at
MCL05	58.3	86.2		SL	FG	Pgy	FR																			Siltstone very fine grained unit unit ih Grain size and colour.
MCL05	86.2	93.4		SL	FG	PGy	FR	SUL	1	DSM	py	0.1								QTZ	VN	5		VN	5	Siltstone strongly laminated siliceous small QTZ veins upto 2cm thick.
MCL05	93.4	94.2		WA	Vfg	Pgy	FR																			Siltstone, sand, hole caved in
MCL05	94.2	101.3		SD	VFg	Gy	FR																			Sandstone/siltstone, massive sandstone.
MCL05	101.3	112.2		SH	FG	Gy	FR	SUL	1	DSM	py	2								CAL	VB	20	QTZ	VB	20	Carbonaceous black shale at contact with unit above. Evidence of shearing, containing carbonates? Calcite/QTZ veins brecciated through unit qith siltstone,
MCL05	112.2	118.2		SL	VFg	CRM	FR																			Pale uniform, alteration zone? Similar to 94.2-101.3m, except highly weatherd.
MCL05	118.2	122		SH	FG	Dgy	FR	SUL	1	DSM	py	1								CAL	VB	10	QTZ	VB	10	Broken shale unit, brecciated, carbonaceous shale with thin calcite veining, carbonate material. Thin QTZ veining also present. Shale becomes puggy between 119.5-122m. Unit un differentiated between shale/carbonate dolomite? Minimal
MCL05	122	124.7		SH	FG	PGy	FR	SUL	2	DSM	py	1						gal	2	CAL	VB	15	QTZ	VB	15	Undifferentiated shale/carbonate not carbonaceous like above unit. Strong Breccia, calcite veins. Thin Gale traces veins, replaced calcite veins.
MCL05	124.7	125.8		SHB	FG		FR																			Black carbonaceous shale band. No pyrite or veining present.
MCL05	125.8	132.8		DM	FG	Dgy	FR	SUL		DSM	py	2		cpy	2	spha	2	gal	2	CAL	VB	10	QTZ	VB	10	Dolomitic unit brexxia common 125.8 - 127.9m. Thin carbonaceous unit 127.90 - 128.5m. Massive, uniform dolomite. Thin trace Galena, sphalerite, chalcopyrite.
MCL05	132.8	175.6		CAR																						
MCL05A	0	5.6		WV	Cg	Br	Fr																			Alluvium gravel consisting of QTZ chips, gravels mixed with fine graphitic black shale
MCL05A	5.6	19.9		SHB	LM	Dgy	Fr	SUL	2	DSM	PY	1								QTZ	VU	5				Graphitic Black shale unit. Laminated shear planes, Bedding angle to Core axis sub parallel. Disseminated pyrite throughout, small thin etched out QTZ veins present. Unit highly black, carbonaceous between 16-16.9m. Pyrite also present in narrow
MCL05A	19.9	33.37		SL	FG	DBr	Fr	SUL	1	DSM	PY	1														Fawny siltstone brown laminated with a distinct sheen, possibly a phyllite at 29.6m? Very fine disseminated pyrite throughout unit increasing at contact with unit below.
MCL05A	33.4	47.2		SHB	FG	BK	Fr	SUL	1	DSM	PY	1		GA	1											Black shale unit similar to 5.6-19.9. Qtz veining 100 degrees to core axis, upto 4cm in width, vuggy. Clear cut contact with unit above. Bedding paralell to bedding. Unit becoming weathered towards contact with unit below. Upto 0.5% Zn with pXRF.
MCL05A	47.2	73		SL	VFG	Crm	Fr																			Pale siltstone unit, strongly weathered. No mineralisation, uniform in texture and
MCL05A	73	78		SHB	MG	BK	Fr																			Strongly weathered black shale pug. Consists of fine shale gravel/sands with qtz chips upto 4cm in size. No pyrite or mineralisation present.
MCL05A	78	89.5		SL	VFG	Crm	Fr																			Pale grey/ white siltstone unit uniform in texture and colour. Strongly weathered no
MCL05A	89.5	90.2		CL																						
MCL05A	90.2	125		SHB	Fg	BK	fr	Sul	2	DSM	PY	2		GA	1	SPA	1									Black shale unit with very poor recovery. Puggy carbonaceous containing QTZ chips, massive pyrite mineralisation. Weak Galena and sphalerite present. Very broken contact with unit below, gravels, carbonate dolomites at contact. Sharp distinct
MCL05A	125	138.7		DM	Fg	Dgy	Fr	Sul	2	DSM	PY	2		GA	1	SPA	1			QTZ	VN	5				