



APPENDIX C

Catchment Areas



APPENDIX C Catchment Areas

Table 1: Macraes Sub-catchment Water Quality Classification for Stage 0

Catchment ID	Catchment Area (m ²)	Stage 0
	135,808	Lone Pine catchment
	9,085	Pit lake
BC-0-NI	288,260	Wider reporting catchment: Non-impacted
BCSP-0-NI	24,661	Run-off to wider catchment: Non-impacted
BR-0-NI	997,998	Run-off to wider catchment: Non-impacted
BR-0-NI	3,380,756	Wider reporting catchment: Non-impacted
BR-0-NI	446,304	Run-off to wider catchment: Non-impacted
CC-0-NI	10,894,141	Wider reporting catchment: Non-impacted
CJC-0-NI	5,052,338	Wider reporting catchment: Non-impacted
DC07-0-NI	86,083	Wider reporting catchment: Non-impacted
DC07-0-NI	28,696	Run-off to wider catchment: Non-impacted
DC08-0-NI	324,634	Wider reporting catchment: Non-impacted
DN-0-NI	391,753	Wider reporting catchment: Non-impacted
DNSP-0-WRS	395,625	Run-off to wider catchment: Waste rock
DS-0-NI	497,466	Wider reporting catchment: Non-impacted
DSP-0-NI(a)	175,462	Run-off to wider catchment: Non-impacted
DSP-0-NI(b)	239,426	Wider reporting catchment: Non-impacted
DSP-0-P/R	131,387	Run-off to wider catchment: Pit/ROM area
DSSP-0-NI	42,988	Run-off to wider catchment: Non-impacted
FP-0-P/R	1,666,037	Pit/ROM area
FP-0-WRS	1,567,821	Waste rock
FPE-0-NI	192,400	Non-impacted
FPE-0-NI	1,823,171	Non-impacted
FPE-0-WRS	413,286	Waste rock
FPE-0-WRS	470,643	Waste rock
FPW-0-NI	498,933	Non-impacted
FPW-0-WRS	699,515	Waste rock
FWSP-0-NI	79,798	Run-off to wider catchment: Non-impacted
FWSP-0-WRS	1,194,213	Run-off to wider catchment: Waste rock



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Catchment ID	Catchment Area (m ²)	Stage 0
MC01-0-NI	2,245,528	Wider reporting catchment: Non-impacted
MC100-0-NI	1,615,062	Wider reporting catchment: Non-impacted
MCSP-0-NI	273,980	Run-off to wider catchment: Non-impacted
MCSP-0-NI	102,683	Run-off to wider catchment: Non-impacted
MCSP-0-NI	41,792	Run-off to wider catchment: Non-impacted
MCSP-0-WRS	553,820	Run-off to wider catchment: Waste rock
MCSP-0-WRS	49,451	Run-off to wider catchment: Waste rock
MTG-0-NI	1,198,905	Wider reporting catchment: Non-impacted
MTGSP-0-NI	168,986	Run-off to wider catchment: Non-impacted
MTGSP-0-WRS	73,786	Run-off to wider catchment: Waste rock
MTI-0	852,490	Tailings
NBWRRB-0-NI	2,108,820	Wider reporting catchment: Non-impacted
NBWRRF-0-NI	23,589,713	Wider reporting catchment: Non-impacted
NG-0-NI	8,514,494	Wider reporting catchment: Non-impacted
NG-0-NI	58,987	Run-off to wider catchment: Non-impacted
NG-0-NI	853,284	Run-off to wider catchment: Non-impacted
NGSP-0-WRS	1,737,625	Run-off to wider catchment: Waste rock
PP-0-NI	666,871	Non-impacted
PP-0-P	72,061	Process plant
PP-0-WRS	724,841	Waste rock
RHGP-0-WRS	908,703	Waste rock
SPTSF-0	576,386	Tailings
SRCJC-0-NI	9,452,798	Wider reporting catchment: Non-impacted
SRLR-0-NI	16,230,927	Wider reporting catchment: Non-impacted
SRMC-0-NI	117,730,580	Wider reporting catchment: Non-impacted
TC01-0-NI	142,503	Run-off to wider catchment: Non-impacted
TC01-0-NI(a)	3,861,816	Wider reporting catchment: Non-impacted
TC-0-NI	33,917	Run-off to wider catchment: Non-impacted
TC-0-NI(b)	1,759,874	Run-off to wider catchment: Non-impacted



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Catchment ID	Catchment Area (m ²)	Stage 0
TC-0-NI(c)	170,712	Run-off to wider catchment: Non-impacted
USDC-0-NI	25,798,594	Wider reporting catchment: Non-impacted
USS-0-NI	170,839,288	Wider reporting catchment: Non-impacted

Table 2: Macraes Sub-catchment Water Quality Classification for Stage 1

Catchment ID	Catchment Area (m ²)	Stage 1
	135,808	Lone Pine catchment
	9,085	Pit lake
BC-1-NI	288,260	Wider reporting catchment: Non-impacted
BCSP-1-NI	24,661	Run-off to wider catchment: Non-impacted
BR-1-NI	3,380,757	Wider reporting catchment: Non-impacted
BR-1-NI	997,998	Run-off to wider catchment: Non-impacted
BR-1-NI	446,304	Run-off to wider catchment: Non-impacted
CC-1-NI	10,894,142	Wider reporting catchment: Non-impacted
CJC-1-NI	5,052,338	Wider reporting catchment: Non-impacted
DC07-1-NI	86,083	Wider reporting catchment: Non-impacted
DC07-1-NI	28,696	Run-off to wider catchment: Non-impacted
DC08-1-NI	324,634	Wider reporting catchment: Non-impacted
DN-1-NI	391,753	Wider reporting catchment: Non-impacted
DNSP-1-WRS	395,625	Run-off to wider catchment: Waste rock
DS-1-NI	497,466	Wider reporting catchment: Non-impacted
DSP-1-NI(a)	175,462	Run-off to wider catchment: Non-impacted
DSP-1-NI(b)	239,427	Wider reporting catchment: Non-impacted
DSP-1-P/R	131,387	Run-off to wider catchment: Pit/ROM area
DSSP-1-NI	42,988	Run-off to wider catchment: Non-impacted
FP-1-WRS	683,586	Waste rock
FP-1-WRS	1,059,706	Waste rock
FPE-1-NI	582,322	Non-impacted



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Catchment ID	Catchment Area (m ²)	Stage 1
FPE-1-WRS	1,234,837	Waste rock
FPW-1-NI	515,217	Non-impacted
FPW-1-WRS	592,522	Waste rock
FR-1-P/R	1,485,004	Pit/ROM area
FWSP-1-NI	79,798	Run-off to wider catchment: Non-impacted
FWSP-1-WRS	1,194,213	Run-off to wider catchment: Waste rock
MC01-1-NI	2,245,533	Wider reporting catchment: Non-impacted
MC100-1-NI	1,615,062	Wider reporting catchment: Non-impacted
MCSP-1-NI	273,980	Run-off to wider catchment: Non-impacted
MCSP-1-NI	41,814	Run-off to wider catchment: Non-impacted
MCSP-1-NI	102,683	Run-off to wider catchment: Non-impacted
MCSP-1-WRS	999,613	Run-off to wider catchment: Waste rock
MTG-1-NI	1,198,905	Wider reporting catchment: Non-impacted
MTGSP-1-NI	168,986	Run-off to wider catchment: Non-impacted
MTGSP-1-WRS	73,786	Run-off to wider catchment: Waste rock
MTI-1	852,490	Tailings
NBWRRB-1-NI	2,108,819	Wider reporting catchment: Non-impacted
NBWRRF-1-NI	23,589,672	Wider reporting catchment: Non-impacted
NG-1-NI	8,514,488	Wider reporting catchment: Non-impacted
NG-1-NI	853,291	Run-off to wider catchment: Non-impacted
NG-1-NI	58,987	Run-off to wider catchment: Non-impacted
NGSP-1-WRS	1,737,625	Run-off to wider catchment: Waste rock
PP-1-NI	666,871	Non-impacted
PP-1-P	72,061	Process plant
PP-1-WRS	724,841	Waste rock
RHGP-1-WRS	908,707	Waste rock
SPTSF-1	576,385	Tailings
SRCJC-1-NI	9,452,797	Wider reporting catchment: Non-impacted
SRLR-1-NI	16,230,926	Wider reporting catchment: Non-impacted



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Catchment ID	Catchment Area (m ²)	Stage 1
SRMC-1-NI	117,730,504	Wider reporting catchment: Non-impacted
TC01-1-NI	3,861,815	Wider reporting catchment: Non-impacted
TCS-1-NI	33,917	Non-impacted
TCS-1-WRS	170,711	Waste rock
TCSP-1-NI	116,846	Run-off to wider catchment: Non-impacted
TCSP-1-WRS	383,846	Run-off to wider catchment: Waste rock
TTTSF-1	1,607,797	Tailings
TTTSF-1-NI	576,132	Non-impacted
USDC-1-NI	25,798,593	Wider reporting catchment: Non-impacted
USS-1-NI	170,839,260	Wider reporting catchment: Non-impacted

Table 3: Macraes Sub-catchment Water Quality Classification for Stage 2

Catchment ID	Catchment Area (m ²)	Stage 2
	135,808	Lone Pine catchment
	9,085	Pit lake
BC-2-NI	288,259	Wider reporting catchment: Non-impacted
BCSP-2-NI	24,661	Run-off to wider catchment: Non-impacted
BR-2-NI	3,380,757	Wider reporting catchment: Non-impacted
BRSP-2-NI	446,304	Run-off to wider catchment: Non-impacted
BRSP-2-NI	28,696	Run-off to wider catchment: Non-impacted
BRSP-2-NI	58,987	Run-off to wider catchment: Non-impacted
BRSP-2-WRS	1,851,290	Run-off to wider catchment: Waste rock
CC-2-NI	10,894,141	Wider reporting catchment: Non-impacted
CJC-2-NI	5,052,339	Wider reporting catchment: Non-impacted
DC07-2-NI	86,083	Wider reporting catchment: Non-impacted
DC08-2-NI	324,635	Wider reporting catchment: Non-impacted
DN-2-NI	391,753	Wider reporting catchment: Non-impacted
DNSP-2-WRS	395,625	Run-off to wider catchment: Waste rock



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Catchment ID	Catchment Area (m ²)	Stage 2
DS-2-NI	497,467	Wider reporting catchment: Non-impacted
DSP-2-NI(a)	175,462	Run-off to wider catchment: Non-impacted
DSP-2-NI(b)	239,427	Wider reporting catchment: Non-impacted
DSP-2-P/R	131,387	Run-off to wider catchment: Pit/ROM area
DSSP-2-NI	42,988	Run-off to wider catchment: Non-impacted
FP-2-NI	448,043	Non-impacted
FP-2-NI	515,217	Non-impacted
FP-2-P/R	1,485,003	Pit/ROM area
FP-2-WRS	1,369,116	Waste rock
FP-2-WRS	592,522	Waste rock
FP-2-WRS	1,743,292	Waste rock
FWSP-2-NI	79,798	Run-off to wider catchment: Non-impacted
FWSP-2-WRS	1,194,213	Run-off to wider catchment: Waste rock
MC01-2-NI	2,245,533	Wider reporting catchment: Non-impacted
MC100-2-NI	1,615,061	Wider reporting catchment: Non-impacted
MCSP-2-NI	273,980	Run-off to wider catchment: Non-impacted
MCSP-2-NI	41,814	Run-off to wider catchment: Non-impacted
MCSP-2-NI	102,683	Run-off to wider catchment: Non-impacted
MCSP-2-WRS	999,613	Run-off to wider catchment: Waste rock
MTG-2-NI	1,198,905	Wider reporting catchment: Non-impacted
MTGSP-2-NI	168,986	Run-off to wider catchment: Non-impacted
MTGSP-2-WRS	73,786	Run-off to wider catchment: Waste rock
MTI-2	852,487	Tailings
NBWRRB-2-NI	2,108,819	Wider reporting catchment: Non-impacted
NBWRRF-2-NI	23,589,714	Wider reporting catchment: Non-impacted
NG-2-NI	8,514,487	Wider reporting catchment: Non-impacted
NGSP-2-WRS	1,663,797	Run-off to wider catchment: Waste rock
PP-2-NI	666,871	Non-impacted
PP-2-P	72,061	Process plant



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Catchment ID	Catchment Area (m ²)	Stage 2
PP-2-WRS	726,480	Waste rock
RH/GP-3-P/R	903,388	Pit/ROM area
RHGP-2-WRS	425,806	Waste rock
SPTSF-2	228,088	Tailings
SRCJC-2-NI	9,452,797	Wider reporting catchment: Non-impacted
SRLR-2-NI	16,230,927	Wider reporting catchment: Non-impacted
SRMC-2-NI	117,741,937	Wider reporting catchment: Non-impacted
TC01-2-NI	3,861,814	Wider reporting catchment: Non-impacted
TCS-2-NI	33,917	Non-impacted
TCS-2-WRS	170,711	Waste rock
TCSP-2-NI	116,846	Run-off to wider catchment: Non-impacted
TCSP-2-WRS	383,847	Run-off to wider catchment: Waste rock
TTSF-2-NI	576,131	Non-impacted
TTTSF-2	1,607,797	Tailings
USDC-2-NI	25,798,593	Wider reporting catchment: Non-impacted
USS-2-NI	170,839,285	Wider reporting catchment: Non-impacted
Name	AreaM2	Landuse

Table 4: Macraes Sub-catchment Water Quality Classification for Stage 3

Catchment ID	Catchment Area (m ²)	Stage 3
	135,808	Lone Pine catchment
	9,085	Pit lake
BC-3-NI	288,259	Wider reporting catchment: Non-impacted
BCSP-3-NI	24,661	Run-off to wider catchment: Non-impacted
BR-3-NI	3,380,757	Wider reporting catchment: Non-impacted
BRSP-3-NI	446,303	Run-off to wider catchment: Non-impacted
BRSP-3-NI	58,987	Run-off to wider catchment: Non-impacted
BRSP-3-NI	28,696	Run-off to wider catchment: Non-impacted
BRSP-3-WRS	1,851,292	Run-off to wider catchment: Waste rock



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Catchment ID	Catchment Area (m ²)	Stage 3
CC-3-NI	10,894,142	Wider reporting catchment: Non-impacted
CJC-3-NI	5,052,339	Wider reporting catchment: Non-impacted
DC07-3-NI	86,083	Wider reporting catchment: Non-impacted
DC08-3-NI	324,635	Wider reporting catchment: Non-impacted
DN-3-NI	391,753	Wider reporting catchment: Non-impacted
DNSP-3-WRS	395,625	Run-off to wider catchment: Waste rock
DS-3-NI	497,467	Wider reporting catchment: Non-impacted
DSP-3-N(a)	175,462	Run-off to wider catchment: Non-impacted
DSP-3-NI(b)	239,427	Wider reporting catchment: Non-impacted
DSP-3-P/R	131,387	Run-off to wider catchment: Pit/ROM area
DSSP-3-NI	42,988	Run-off to wider catchment: Non-impacted
FP-3-NI	448,035	Non-impacted
FP-3-NI	353,782	Non-impacted
FP-3-P/R	1,642,276	Pit/ROM area
FP-3-WRS	1,369,124	Waste rock
FP-3-WRS	1,743,292	Waste rock
FWSP-3-NI	79,798	Run-off to wider catchment: Non-impacted
FWSP-3-WRS	1,194,213	Run-off to wider catchment: Waste rock
IM-3-P/R	591,771	Pit/ROM area
IM-3-WRS	30,748	Waste rock
MC01-3-NI	2,245,533	Wider reporting catchment: Non-impacted
MC100-3-NI	1,615,061	Wider reporting catchment: Non-impacted
MCSP-3-NI	273,980	Run-off to wider catchment: Non-impacted
MCSP-3-NI	41,814	Run-off to wider catchment: Non-impacted
MCSP-3-NI	102,683	Run-off to wider catchment: Non-impacted
MCSP-3-WRS	999,613	Run-off to wider catchment: Waste rock
MTG-3-NI	1,198,905	Wider reporting catchment: Non-impacted
MTGSP-3-NI	168,986	Run-off to wider catchment: Non-impacted
MTGSP-3-WRS	73,786	Run-off to wider catchment: Waste rock



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Catchment ID	Catchment Area (m ²)	Stage 3
MTI-3	852,487	Tailings
NBWRRB-3-NI	2,108,819	Wider reporting catchment: Non-impacted
NBWRRF-3-NI	23,589,714	Wider reporting catchment: Non-impacted
NG-3-NI	8,514,487	Wider reporting catchment: Non-impacted
NGSP-3-WRS	1,637,960	Run-off to wider catchment: Waste rock
PP-3-NI	666,871	Non-impacted
PP-3-P	72,061	Process plant
PP-3-WRS	726,500	Waste rock
RH/GP-3-P/R	903,368	Pit/ROM area
RHGP-3-WRS	425,806	Waste rock
SPTSF-3	228,088	Tailings
SRCJC-3-NI	9,452,797	Wider reporting catchment: Non-impacted
SRLR-3-NI	16,230,927	Wider reporting catchment: Non-impacted
SRMC-3-NI	117,742,264	Wider reporting catchment: Non-impacted
TC01-3-NI	3,861,814	Wider reporting catchment: Non-impacted
TCS-3-NI	33,917	Non-impacted
TCS-3-WRS	170,711	Waste rock
TCSP-3-NI	116,846	Run-off to wider catchment: Non-impacted
TCSP-3-WRS	383,847	Run-off to wider catchment: Waste rock
TTTSF-3	1,607,797	Tailings
TTTSF-3-NI	576,132	Non-impacted
USDC-3-NI	25,798,592	Wider reporting catchment: Non-impacted
USS-3-NI	170,839,285	Wider reporting catchment: Non-impacted



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Table 5: Macraes Sub-catchment Water Quality Classification for Stage 4

Catchment ID	Catchment Area (m ²)	Stage 4
	487,794	Pit lake
	273,180	Pit/ROM area
	531,309	Pit/ROM area
	135,808	Lone Pine catchment
	9,085	Pit lake
BC-4-NI	288,259	Wider reporting catchment: Non-impacted
BCSP-4-NI	24,661	Run-off to wider catchment: Non-impacted
BR-4-NI	3,380,757	Wider reporting catchment: Non-impacted
BRSP-4-NI	446,303	Run-off to wider catchment: Non-impacted
BRSP-4-NI	28,683	Run-off to wider catchment: Non-impacted
BRSP-4-NI	58,999	Run-off to wider catchment: Non-impacted
BRSP-4-RWRS	1,851,292	Rehabilitated waste rock run-off to wider catchment
CC-4-NI	10,894,141	Wider reporting catchment: Non-impacted
CJC-4-NI	5,052,339	Wider reporting catchment: Non-impacted
DC07-4-NI	86,083	Wider reporting catchment: Non-impacted
DC08-4-NI	324,635	Wider reporting catchment: Non-impacted
DN-4-NI	391,753	Wider reporting catchment: Non-impacted
DNBP-4-RWRS	395,625	Rehabilitated waste rock run-off to wider catchment
DS-4-NI	497,467	Wider reporting catchment: Non-impacted
DSP-4-NI(a)	175,462	Run-off to wider catchment: Non-impacted
DSP-4-NI(b)	239,427	Wider reporting catchment: Non-impacted
DSP-4-P/R	131,387	Run-off to wider catchment: Pit/ROM area
DSSP-4-NI	42,988	Run-off to wider catchment: Non-impacted
FP-4-NI	478,708	Non-impacted
FP-4-NI	585,475	Non-impacted
FP-4-P/R	1,734,742	Pit lake
FP-4-RWRS	1,131,772	Rehabilitated waste rock
FP-4-RWRS	1,846,176	Rehabilitated waste rock



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Catchment ID	Catchment Area (m ²)	Stage 4
FP-4-RWRS	134,343	Rehabilitated waste rock
FWSP-4-NI	79,798	Run-off to wider catchment: Non-impacted
FWSP-4-RWRS	1,194,230	Rehabilitated waste rock run-off to wider catchment
MC01-4-NI	2,245,533	Wider reporting catchment: Non-impacted
MC100-4-NI	1,615,061	Wider reporting catchment: Non-impacted
MCSP-4-NI	273,980	Run-off to wider catchment: Non-impacted
MCSP-4-NI	102,683	Run-off to wider catchment: Non-impacted
MCSP-4-NI	41,814	Run-off to wider catchment: Non-impacted
MCSP-4-RWRS	999,613	Rehabilitated waste rock run-off to wider catchment
MTG-4-NI	1,198,905	Wider reporting catchment: Non-impacted
MTGSP-4-NI	168,986	Run-off to wider catchment: Non-impacted
MTGSP-4-RWRS	73,786	Rehabilitated waste rock
MTI-4	852,783	Rehabilitated tailings storage
NBWRRB-4-NI	2,108,819	Wider reporting catchment: Non-impacted
NBWRRF-4-NI	23,589,692	Wider reporting catchment: Non-impacted
NG-4-NI	8,514,487	Wider reporting catchment: Non-impacted
NGSP-4-RWRS	1,638,003	Rehabilitated waste rock
PP-4-NI	676,521	Non-impacted
PP-4-P	72,058	Process plant
PP-4-RWRS	726,474	Rehabilitated waste rock
RHGP-4-WRS	294,648	Rehabilitated waste rock
SPTSF-4	228,060	Rehabilitated tailings storage
SRCJC-4-NI	9,452,797	Wider reporting catchment: Non-impacted
SRLR-4-NI	16,230,926	Wider reporting catchment: Non-impacted
SRMC-4-NI	117,742,262	Wider reporting catchment: Non-impacted
TC01-4-NI	3,861,814	Wider reporting catchment: Non-impacted
TCS-4-NI	33,917	Non-impacted
TCS-4-WRS	170,711	Rehabilitated waste rock run-off to wider catchment
TCSP-4-NI	116,846	Run-off to wider catchment: Non-impacted



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Catchment ID	Catchment Area (m ²)	Stage 4
TCSP-4-RWRS	383,846	Rehabilitated waste rock run-off to wider catchment
TTTSF-4	1,607,797	Rehabilitated tailings storage
TTTSF-4-NI	576,249	Non-impacted
USDC-4-NI	25,798,592	Wider reporting catchment: Non-impacted
USS-4-NI	170,839,284	Wider reporting catchment: Non-impacted

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