

APPENDIX E.7

QUARRY GEOCHEMISTRY ANALYTICAL SAMPLING RESULTS

TABLE E.7.1 - QMR2 QUARRY GEOCHEMISTRY ANALYTICAL SAMPLING RESULTS FOR 2017

Summary Statistics

S(%) >0.2	Fizz Rating	NP	MPA	MNP	Ratio (NP:MNP)	C (%)*	S (%)*
		t CaCO ₃ /1000t	t CaCO ₃ /1000t	t CaCO ₃ /1000t			
COUNT	7	7	7	7	7	7	7
MIN	1.000	19.00	6.90	-17.00	0.510	0.005	0.220
MAX	1.000	24.00	35.30	13.00	2.760	0.120	1.130
MEAN	1.000	20.57	16.11	4.43	1.724	0.042	0.516

S(%) <0.2	Fizz Rating	NP	MPA	MNP	Ratio (NP:MNP)	C (%)*	S (%)*
		t CaCO ₃ /1000t	t CaCO ₃ /1000t	t CaCO ₃ /1000t			
COUNT	0	0	0	0	0	40	40
MIN	1.000	--	--	--	--	0.005	0.005
MAX	1.000	--	--	--	--	0.210	0.190
MEAN	1.000	--	--	--	--	0.035	0.020

*Laboratory detection limit (LDL) = 0.01%; Non-detects are reported as half the LDL (0.005%).

TABLE E.7.2 - QMR2 QUARRY GEOCHEMISTRY ANALYTICAL SAMPLING RESULTS FOR 2017

YEAR	Location	Bench	Blast ID	ALS Assay #	Hole ID	Fizz Rating	NP (tCaCO3/1Kt)	MPA (tCaCO3/1Kt)	NNP (tCaCO3/1Kt)	Ratio (NP:MPA)	C (%)*	S (%)*	y	x	z	DEPTH	CLASS
2017	QMR2	1217	1217-013B	S663001	105						0.005	0.005	7914372	560088	226	8.5	NAG
2017	QMR2	1217	1217-013B	S663002	1227						0.01	0.005	7914374	560047	224	6.8	NAG
2017	QMR2	1217	1217-013B	S663003	1321						0.06	0.005	7914369	560059	228	10.6	NAG
2017	QMR2	1217	1217-013B	S663004	1514						0.11	0.005	7914360	560074	225	8.3	NAG
2017	QMR2	1217	1217-013B	S663005	1429						0.005	0.005	7914371	560041	224	7.2	NAG
2017	QMR2	1217	1217-013B	S663006	1509						0.005	0.005	7914357	560085	225	8.3	NAG
2017	QMR2	1217	1217-013B	S663007	1229						0.03	0.19	7914375	560044	224	6.8	NAG
2017	QMR2	1217	1217-013B	S663008	1516						0.06	0.01	7914361	560069	226	8.8	NAG
2017	QMR2	1217	1217-013B	S663009	1530	1	24	14.7	9	1.63	0.12	0.47	7914370	560037	224	7.2	PAG
2017	QMR2	1217	1217-013B	S663010	1113						0.15	0.005	7914367	560079	225	8.2	NAG
2017	QMR2	1217	1217-013B	S663011	1017						0.005	0.02	7914372	560071	227	9.7	NAG
2017	QMR2	1217	1217-013B	S663012	1330	1	18	35.3	-17	0.51	0.03	1.13	7914375	560038	224	6.6	PAG
2017	QMR2	1217	1217-013B	S663013	205						0.01	0.005	7914370	560087	225	8.4	NAG
2017	QMR2	1217	1217-013B	S663014	130						0.005	0.01	7914384	560038	225	7.5	NAG
2017	QMR2	1217	1217-013B	S663015	121						0.005	0.005	7914380	560057	226	9.0	NAG
2017	QMR2	1217	1217-012	S663032	2236						0.005	0.005	7914336	560051	226	8.7	NAG
2017	QMR2	1217	1217-012	S663033	2129						0.005	0.01	7914334	560066	225	7.8	NAG
2017	QMR2	1217	1217-012	S663034	2133						0.005	0.005	7914336	560056	226	8.9	NAG
2017	QMR2	1217	1217-012	S663035	2725						0.005	0.005	7914318	560072	225	7.9	NAG
2017	QMR2	1217	1217-012	S663036	2222	1	24	25	-1	0.96	0.08	0.8	7914327	560083	224	6.6	PAG
2017	QMR2	1217	1217-012	S663037	2030						0.005	0.01	7914336	560066	225	7.7	NAG
2017	QMR2	1217	1217-012	S663038	3030						0.005	0.005	7914315	560060	224	6.9	NAG
2017	QMR2	1217	1217-012	S663039	2633						0.005	0.04	7914325	560056	225	7.8	NAG
2017	QMR2	1217	1217-012	S663040	3121						0.005	0.06	7914308	560079	223	6.3	NAG
2017	QMR2	1217	1217-012	S663041	2123	1	19	14.7	4	1.29	0.005	0.47	7914330	560080	224	7.1	PAG
2017	QMR2	1217	1217-012	S663042	2524						0.005	0.04	7914322	560075	225	7.7	NAG
2017	QMR2	1217	1217-012	S663043	2228						0.005	0.005	7914331	560069	225	8.2	NAG
2017	QMR2	1217	1217-012	S663044	2422	1	21	8.1	13	2.58	0.03	0.26	7914323	560081	224	6.7	NAG
2017	QMR2	1217	1217-012	S663045	3223	1	19	8.1	11	2.34	0.01	0.26	7914306	560075	223	6.2	NAG
2017	QMR2	1217	1217-012	S663046	3023						0.005	0.16	7914311	560076	223	5.9	NAG
2017	QMR2	1217	1217-012	S663047	2036						0.005	0.01	7914340	560051	217	-0.5	NAG
2017	QMR2	1217	1217-012	S663048	2126						0.005	0.005	7914332	560073	224	7.3	NAG
2017	QMR2	1217	1217-012	S663049	2727						0.005	0.02	7914320	560067	225	8.1	NAG
2017	QMR2	1217	1217-012	S663050	3224	1	19	6.9	12	2.76	0.02	0.22	7914307	560073	223	6.1	NAG
2017	QMR2	1217	1217-012	S663051	2432						0.02	0.005	7914329	560058	225	8.2	NAG
2017	QMR2	1225	1225-005	S663052	1204						0.005	0.03	7914349	560033	226	1.4	NAG
2017	QMR2	1225	1225-006	S663053	1114						0.06	0.005	7914366	559999	228	3.2	NAG
2017	QMR2	1225	1225-007	S663054	3427						0.005	0.02	7914417	560030	233	8.1	NAG
2017	QMR2	1225	1225-007	S663055	2319						0.005	0.005	7914416	560072	234	8.7	NAG
2017	QMR2	1225	1225-006	S663056	1422						0.19	0.005	7914373	560020	230	5.3	NAG
2017	QMR2	1225	1225-007	S663057	1220						0.005	0.005	7914392	560074	232	7.1	NAG
2017	QMR2	1225	1225-007	S663058	1518						0.005	0.005	7914399	560070	232	7.2	NAG
2017	QMR2	1225	1225-005	S663059	1006						0.21	0.005	7914345	560028	226	0.9	NAG
2017	QMR2	1225	1225-006	S663060	1323						0.11	0.03	7914371	560021	230	5.1	NAG
2017	QMR2	1225	1225-007	S663025	3014						0.18	0.005	7914408	559999	232	6.6	NAG
2017	QMR2	1225	1225-007	S663026	3321						0.07	0.005	7914415	560015	234	8.8	NAG
2017	QMR2	1225	1225-007	S663061	2530						0.005	0.005	7914398	560037	231	6.3	NAG

*Laboratory detection limit (LDL) = 0.01%; Non-detects are reported as half the LDL (0.005%).

TABLE E.7.3 - Q1 QUARRY GEOCHEMISTRY ANALYTICAL SAMPLING RESULTS FOR 2017
Summary Statistics

	Fizz Rating	NP	MPA	MNP	Ratio (NP:MNP)	C (%)*	S (%)*
		t CaCO ₃ /1000t	t CaCO ₃ /1000t	t CaCO ₃ /1000t			
COUNT	0	0	0	0	0	22	22
MIN	1.000	--	--	--	--	0.005	0.005
MAX	1.000	--	--	--	--	0.870	0.030
MEAN	1.000	--	--	--	--	0.149	0.008

*Laboratory detection limit (LDL) = 0.01%; Non-detects are reported as half the LDL (0.005%).

TABLE E.7.4 - Q1 QUARRY GEOCHEMISTRY ANALYTICAL SAMPLING RESULTS FOR 2017

YEAR	Location	Bench	Blast ID	ALS Assay #	Hole ID	Fizz Rating	NP (tCaCO ₃ /1Kt)	MPA (tCaCO ₃ /1Kt)	NNP (tCaCO ₃ /1Kt)	Ratio (NP:MPA)	C (%)*	S (%)*	y	x	z	DEPTH	CLASS
2017	Q01	1054	Q01 1054 017	R799371	811						0.04	0.01	7975215	503988	60	6.3	NAG
2017	Q01	1054	Q01 1054 017	R799372	708						0.03	0.01	7975213	503995	61	6.6	NAG
2017	Q01	1054	Q01 1054 017	R799373	617						0.03	0.01	7975228	503974	60	6.2	NAG
2017	Q01	1054	Q01 1054 017	R799374	713						0.11	0.01	7975221	503983	60	6.5	NAG
2017	Q01	1089	Q01 1089 012	R823228	1631						0.49	0.02	7975165	504078	94	4.9	NAG
2017	Q01	1089	Q01 1089 010	R823229	1334						0.87	0.02	7975143	504072	92	3.1	NAG
2017	Q01	1096	Q01 1096 002	S663016	2404						0.62	0.03	7975087	504155	100	4.0	NAG
2017	Q01	1096	Q01 1096 002	S663017	1906						0.31	0.005	7975101	504155	101	5.0	NAG
2017	Q01	1096	Q01 1096 002	S663018	1926						0.005	0.005	7975130	504104	98	2.0	NAG
2017	Q01	1096	Q01 1096 004	S663019	1126						0.02	0.005	7975128	504149	103	7.0	NAG
2017	Q01	1096	Q01 1096 004	S663020	1104						0.06	0.005	7975156	504099	98	2.0	NAG
2017	Q01	1096	Q01 1096 004	S663021	1418						0.07	0.005	7975145	504133	104	8.0	NAG
2017	Q01	1096	Q01 1096 002	S663022	2424						0.01	0.005	7975115	504104	97	1.0	NAG
2017	Q01	1096	Q01 1096 004	S663023	1211						0.06	0.005	7975150	504115	102	6.0	NAG
2017	Q01	1054	Q01 1054 018	S663024	3611						0.04	0.005	7975250	503990	61	6.6	NAG
2017	Q01	1054	Q01 1054 018	S663025	3014						0.18	0.005	7975267	503990	61	6.8	NAG
2017	Q01	1054	Q01 1054 018	S663026	3321						0.07	0.005	7975273	503967	61	6.5	NAG
2017	Q01	1054	Q01 1054 018	S663027	6						0.04	0.005	7975236	503995	61	6.8	NAG
2017	Q01	1054	Q01 1054 018	S663028	13						0.01	0.005	7975247	503977	60	6.4	NAG
2017	Q01	1054	Q01 1054 018	S663029	414						0.07	0.005	7975241	503970	60	6.4	NAG
2017	Q01	1054	Q01 1054 018	S663030	3617						0.07	0.005	7975260	503975	61	6.5	NAG
2017	Q01	1054	Q01 1054 018	S663031	405						0.08	0.005	7975227	503993	62	7.7	NAG

*Laboratory detection limit (LDL) = 0.01%; Non-detects are reported as half the LDL (0.005%).