

BOREHOLE LOG	PROJECT: 92-372	BOREHOLE: 53-1 1 of 1
HYDROGEOLOGICAL INVESTIGATION TARO QUARRIES - STONEY CREEK FOR: TARO AGGREGATES LTD.		DATE: 5 November 1992 GEOLOGIST PW ELEVATION 191.3 m ASL

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE							RECOVERY (%)				RQD (%)				
				NUMBER	INTERVAL	TYPE	N VALUE	% WATER	% REC	% RQD	25	50	75	100	25	50	75	100	
0.3		ERAMOSA DOLOSTONE																	
1		VINEMOUNT SHALE Dark brownish grey, aphanitic to very fine crystalline, thin to medium bedded shale, locally interlaminated to interbedded with dolostone, dolostone beds usually associated with bioturbation at lower contact and fossils at upper contact.		1	HQ				100	42									
1.5																			
2.0				2	HQ				100	71									
2		-Dolostone bed from about 1.5 to 2.0 m, moderate shale content locally.																	
3				3	HQ				100	96									
4																			
5				4	HQ				100	99									
5.7																			
6		GOAT ISLAND DOLOSTONE Brownish grey to grey, fine crystalline, thin to medium bedded dolostone, moderate shale content.		5	HQ				100	94									
6.8																			
7		SHALE Dark brownish grey, medium bedded shale, interlaminated with dolostone, bioturbation at upper contact.		6	HQ				100	84									
7.5																			
8		-Fractured at about 8.5 m.																	
9																			
9.8		Borehole terminated at 9.81 m in dolostone.		7	HQ				100	100									

BOREHOLE LOG	PROJECT: 92-372	BOREHOLE: 53-III 1 of 1
HYDROGEOLOGICAL INVESTIGATION TARO QUARRIES - STONEY CREEK FOR: TARO AGGREGATES LTD.		DATE: 6 November 1992 GEOLOGIST PW ELEVATION 191.3 m ASL

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE						RECOVERY (%)				RQD (%)						
				NUMBER	INTERVAL	TYPE	N VALUE	% WATER	% REC	% RQD										
											25	50	75	100	25	50	75	100		
0.3		ERAMOSIA DOLOSTONE																		
1		VINEMOUNT SHALE																		
1.5		Dark brownish grey, aphanitic to very fine crystalline, thin to medium bedded shale, locally interlaminated to interbedded with dolostone, dolostone beds usually associated with bioturbation at lower contact and fossils at upper contact.																		
2.0		-Dolostone bed from about 1.5 to 2.0 m, moderate shale content locally.																		
2																				
3																				
3.8		Borehole terminated at 3.78 m in shale. NOTE: Stratigraphy inferred from adjacent borehole 53-I. Borehole cored directly to 3.78 m, logged to confirm contacts and for monitor placement.																		

BOREHOLE LOG	PROJECT: 92-372	BOREHOLE: 53-IV 1 of 1
HYDROGEOLOGICAL INVESTIGATION TARO QUARRIES - STONEY CREEK FOR: TARO AGGREGATES LTD.		DATE: 31 May 1993 GEOLOGIST SMA ELEVATION 191.3 m ASL

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE					RECOVERY (%)				RQD (%)						
				NUMBER	INTERVAL	TYPE	N VALUE	% WATER	% REC	% RQD									
											25	50	75	100	25	50	75	100	
0.3		ERAMOSIA DOLOSTONE		1		HQ			90	20									
1		VINEMOUNT SHALE		2		HQ			100	93									
1.5		Dark brownish grey, aphanitic to very fine crystalline, thin to medium bedded shale, locally interlaminated to interbedded with dolostone, dolostone beds usually associated with bioturbation at lower contact and fossils at upper contact.		3		HQ			100	100									
2.0		Dolostone bed from about 1.5 to 2.0 m, moderate shale content.		4		HQ			100	100									
3																			
4		Fracture at about 4.3 m.																	
5.2		GOAT ISLAND DOLOSTONE																	
6		Brownish grey to grey, fine crystalline, thin to medium bedded dolostone, moderate shale content.																	
6.5		Borehole terminated at 6.48 m in dolostone.																	

BOREHOLE LOG	PROJECT: 92-372	BOREHOLE: 54-1 1 of 2
HYDROGEOLOGICAL INVESTIGATION TARO QUARRIES - STONEY CREEK FOR: TARO AGGREGATES LTD.		DATE: 29 October 1992 GEOLOGIST PW ELEVATION 192.4 m ASL

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE					RECOVERY (%)				RQD (%)							
				NUMBER	INTERVAL	TYPE	N VALUE	% WATER	% REC	% RQD										
											25	50	75	100	25	50	75	100		
1.0		ERAMOSIA DOLOSTONE Brownish grey weathered dolostone, broken up.		1		HQ				100	21									
1.8		VINEMOUNT SHALE Dark brownish grey, aphanitic to very fine crystalline, thin to medium bedded shale, interlaminated to locally interbedded with dolostone below about 3.0 m, dolostone beds usually associated with bioturbation at lower contact and fossils at upper contact.		2		HQ				99	78									
2.4				3		HQ				100	97									
3		-Weathered locally to about 2.7 m.																		
4		-Grey dolostone bed encountered from about 1.8 to 2.4 m.																		
5		-Slightly fossiliferous from about 2.6 to 2.8 m.		4		HQ				97	89									
6.0		GOAT ISLAND DOLOSTONE Brownish grey to grey, fine crystalline, thin to medium bedded dolostone, occasional shale stringers.		5		HQ				100	92									
7.1		-7 cm gypsum nodule associated with a 1 cm seam at about 6.7 m.																		
7.9		SHALE Dark brownish grey, medium bedded shale slightly laminated with dolostone, bioturbation at upper contact.		6		HQ				99	90									
9		-Thin zones of moderate shale content locally and minor occurrences of sphalerite mineralization below about 7.9 m.		7		HQ				100	92									
10		-Fractured zone from about 8.5 to 8.7 m and from about 10.0 to 10.2 m.																		
11				8		HQ				99	99									
12																				
13				9		HQ				100	83									
14.1		-Becoming siliceous with occurrences of chert below about 13.7 m.																		
		ANCASTER CHERT BEDS Brownish grey to brown, fine to very fine crystalline,		10		HQ				100	91									

BOREHOLE LOG	PROJECT: 92-372	BOREHOLE: 54-II 1 of 1
HYDROGEOLOGICAL INVESTIGATION TARO QUARRIES - STONEY CREEK FOR: TARO AGGREGATES LTD.		DATE: 3 November 1992 GEOLOGIST PW ELEVATION 192.4 m ASL

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE							RECOVERY (%)				RQD (%)				
				NUMBER	INTERVAL	TYPE	N VALUE	% WATER	% REC	% RQD	25	50	75	100	25	50	75	100	
1.0	1	ERAMOSA DOLOSTONE Brownish grey weathered dolostone, broken up.																	
1.8	2	VINEMOUNT SHALE Dark brownish grey, aphanitic to very fine crystalline, thin to medium bedded shale, interlaminated to locally interbedded with dolostone below about 3.0 m, dolostone beds usually associated with bioturbation at lower contact and fossils at upper contact. -Weathered locally to about 2.7 m. -Grey dolostone bed encountered from about 1.8 to 2.4 m. -Slightly fossiliferous from about 2.6 to 2.8 m.																	
6.0	6	GOAT ISLAND DOLOSTONE Brownish grey to grey, fine crystalline, thin to medium bedded dolostone, occasional shale stringers. -7 cm gypsum nodule associated with a 1 cm seam at about 6.7 m.																	
7.9	8	SHALE Dark brownish grey, medium bedded shale slightly laminated with dolostone, bioturbation at upper contact. -Thin zones of moderate shale content locally and minor occurrences of sphalerite mineralization below about 7.9 m. -Fractured zone from about 8.5 to 8.7 m and from about 10.0 to 10.2 m.																	
10.2	10	Borehole terminated at 10.22 m in dolostone. NOTE: Stratigraphy inferred from adjacent borehole 54-I. Borehole cored directly to 10.22 m, logged to confirm contacts and for monitor placement.																	

BOREHOLE LOG	PROJECT: 92-372	BOREHOLE: 54-III 1 of 1
HYDROGEOLOGICAL INVESTIGATION TARO QUARRIES - STONEY CREEK FOR: TARO AGGREGATES LTD.		DATE: 3 November 1992 GEOLOGIST PW ELEVATION 192.4 m ASL

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE							RECOVERY (%)				RQD (%)				
				NUMBER	INTERVAL	TYPE	N VALUE	% WATER	% REC	% RQD	25	50	75	100	25	50	75	100	
1.0	1	ERAMOSA DOLOSTONE Brownish grey weathered dolostone, broken up.																	
1.8	2	VINEMOUNT SHALE Dark brownish grey, aphanitic to very fine crystalline, thin to medium bedded shale, inter laminated to locally interbedded with dolostone below about 3.0 m, dolostone beds usually associated with bioturbation at lower contact and fossils at upper contact. - Weathered locally to about 2.7 m. - Grey dolostone bed encountered from about 1.8 to 2.4 m. - Slightly fossiliferous from about 2.6 to 2.8 m.																	
2.4	3																		
3.0	4																		
4.0	5																		
5.0	6	GOAT ISLAND DOLOSTONE Brownish grey to grey, fine crystalline, thin to medium bedded dolostone, occasional shale stringers. - 7 cm gypsum nodule associated with a 1 cm seam at about 6.7 m.																	
6.0	7																		
7.1	7																		
7.2		Borehole terminated at 7.23 m in dolostone. NOTE: Stratigraphy inferred from adjacent borehole 54-I. Borehole cored directly to 7.23 m, logged to confirm contacts and for monitor placement.																	

BOREHOLE LOG	PROJECT: 92-372	BOREHOLE: 54-IV 1 of 1
HYDROGEOLOGICAL INVESTIGATION TARO QUARRIES - STONEY CREEK FOR: TARO AGGREGATES LTD.		DATE: 4 November 1992 GEOLOGIST PW ELEVATION 192.4 m ASL

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE							RECOVERY (%)				RQD (%)				
				NUMBER	INTERVAL	TYPE	N	VALUE	% WATER	% REC	% RQD	25	50	75	100	25	50	75	100
1.0		ERAMOSA DOLOSTONE Brownish grey weathered dolostone, broken up.																	
1.8		VINEMOUNT SHALE Dark brownish grey, aphanitic to very fine crystalline, thin to medium bedded shale, interlaminated to locally interbedded with dolostone below about 3.0 m, dolostone beds usually associated with bioturbation at lower contact and fossils at upper contact.																	
2.4		-Weathered locally to about 2.7 m.																	
3.0		-Grey dolostone bed encountered from about 1.8 to 2.4 m.																	
3.7		-Slightly fossiliferous from about 2.6 to 2.8 m. Borehole terminated at 3.73 m in shale. NOTE: Stratigraphy inferred from adjacent borehole 54-I. Borehole cored directly to 3.73 m, logged to confirm contacts and for monitor placement.																	

BOREHOLE LOG	PROJECT: TARO	BOREHOLE: 55-1 1 of 1
HYDROGEOLOGICAL INVESTIGATION TARO QUARRIES - STONEY CREEK FOR: TARO AGGREGATES LTD.		DATE: 21 June 1994 GEOLOGIST SMA ELEVATION 192.5 m ASL

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE						RECOVERY (%)				RQD (%)									
				NUMBER	INTERVAL	TYPE	N	VALUE	% WATER	% REC	% RQD												
												25	50	75	100	25	50	75	100				
1	COMPACTED CLAY FILL	Brown clayey silt.																					
2																							
3																							
4.0																							
5	QUARRY RUBBLE	Brownish grey fine crystalline dolostone quarry rubble, saturated.																					
6																							
7																							
8																							
9																							
10																							
11																							
12																							
12.6				1	HQ					96													
13	GOAT ISLAND DOLOSTONE	Brownish grey to grey, fine crystalline medium bedded dolostone, locally shaly, rare vug infilled with chert.																					
13.8																							
		Borehole terminated at 13.81 m in dolostone																					

BOREHOLE LOG	PROJECT: 92-372	BOREHOLE: 56-I 1 of 1
HYDROGEOLOGICAL INVESTIGATION TARO QUARRIES - STONEY CREEK FOR: TARO AGGREGATES LTD.		DATE: 9 October 1992 GEOLOGIST SMA ELEVATION 195.1 m ASL

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE							RECOVERY (%)			RQD (%)					
				NUMBER	INTERVAL	TYPE	N VALUE	% WATER	% REC	% RQD	25	50	75	100	25	50	75	100	
0.6		TOPSOIL Brown clayey silt with gravel, rootlets, moist, compact.		1		SS	11	4	50										
1		FILL Brown clayey silt with gravel and rock fragments, moist, compact to dense.		2		SS	10	11	60										
2				3		SS	34	8	38										
3				4		SS	15	18	70										
3.8				5		SS	17	15	80										
4		CLAYEY SILT Brown clayey silt, trace fine sand, trace rust staining, DTPL, hard. -Fractured from about 3.7 to 4.4 m.		6		SS	60	17	60										
5				7		SS	60	13	100										
6.2		GOAT ISLAND DOLOSTONE Brownish grey to grey, fine crystalline, thin to medium bedded dolostone, occasional small vugs with some infilled with calcite crystals.		1		HQ			100	48									
7.2																			
8.0		SHALE Dark brownish grey, medium bedded shale, interlaminated with dolostone, bioturbation at upper contact. -Numerous vertical fractures to about 9.4 m.		2		HQ			100	87									
9																			
10																			
10.8		Borehole terminated at 10.80 m in dolostone.																	


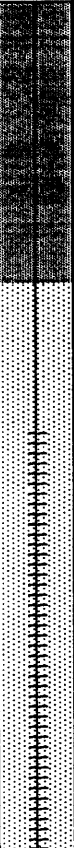
BOREHOLE LOG	PROJECT: 92-372	BOREHOLE: 56-II 1 of 1
HYDROGEOLOGICAL INVESTIGATION TARO QUARRIES - STONEY CREEK FOR: TARO AGGREGATES LTD.		DATE: 13 October 1992 GEOLOGIST SMA ELEVATION 195.1 m ASL

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE							RECOVERY (%)				RQD (%)				
				NUMBER	INTERVAL	TYPE	N VALUE	% WATER	% REC	% RQD	25	50	75	100	25	50	75	100	
0.6		TOPSOIL Brown clayey silt with gravel, rootlets, moist, compact.																	
1		FILL Brown clayey silt with gravel and rock fragments, moist, compact to dense.																	
2																			
3																			
3.8																			
4		CLAYEY SILT Brown clayey silt, trace fine sand, trace rust staining, DTPL, hard. -Fractured from about 3.7 to 4.4 m.																	
5																			
6.2																			
7.0		GOAT ISLAND DOLOSTONE Brownish grey to grey, fine crystalline, thin to medium bedded dolostone, occasional small vugs with some infilled with calcite crystals. Borehole terminated at 7.02 m in dolostone. NOTE: Stratigraphy inferred from adjacent borehole 56-I. Borehole cored directly to 7.02 m, logged to confirm contacts and for monitor placement.																	

BOREHOLE LOG	PROJECT: 92377	BOREHOLE: 57-I 1 of 1
HYDRAULIC CONTROL INVESTIGATION TARO-WEST QUARRY FOR: TARO AGGREGATES LTD.		DATE: 10 February 1993 GEOLOGIST TLC ELEVATION 202.1 m ASL

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE							RECOVERY (%)				RQD (%)						
				NUMBER	INTERVAL	TYPE	N VALUE	% WATER	% REC	% RQD	25	50	75	100	25	50	75	100			
1		INDUSTRIAL FILL Grey to black clay and silt interbedded locally with brick and concrete fragments, APL, soft to firm. -Ammonia odour detected in sample #2. -Increasing silt and sand below about 3.4 m, changing to greyish brown silty fine sand with gravel, dense, at about 4.6 m. NOTE: Soil sample details and locations shown on borehole 57-II. -Becoming dark brown to black foundry sands below about 6.1 m. -Naphthaline odour detected in sample #5. -Strong Ammonia odour detected at bottom of fill.																			
2																					
3																					
4																					
5																					
6																					
7																					
8																					
8.8		VINEMOUNT SHALE Dark brownish grey, aphanitic to very fine crystalline, thin to thick bedded shale interlaminated to interbedded with dolostone, dolostone beds usually associated with bioturbation at lower contact and fossils at upper contact. -Dolostone bed encountered from about 9.0 to 9.6 m.		1	HQ						80	33									
9																					
9.6																					
10																					
11				2	HQ						100	85									
12																					
13																					
13.4		GOAT ISLAND DOLOSTONE Brownish grey to grey, fine crystalline, medium bedded dolostone, moderate shale content, minor occurrence of sphalerite mineralization, trace fossil. Borehole terminated at 14.37 m in dolostone.		3	HQ						100	90									
14																					
14.4				4	HQ						100	83									

BOREHOLE LOG	PROJECT: 92377	BOREHOLE: 57-II 1 of 1
HYDRAULIC CONTROL INVESTIGATION TARO-WEST QUARRY FOR: TARO AGGREGATES LTD.		DATE: 10 February 1993 GEOLOGIST TLC ELEVATION 202.1 m ASL

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE						N VALUE				WATER CONTENT (%)						
				NUMBER	INTERVAL	TYPE	N VALUE	% WATER	% REC	% RQD										
											15	30	45	60	10	20	30	40		
1		INDUSTRIAL FILL Grey to black clay and silt interbedded locally with brick and concrete fragments, APL, soft to firm. -Ammonia odour detected in sample #2.		1	SS	SS		72												
2				2	SS			72												
3				3	SS	10		59												
4				4	SS	67		95												
5				5	SS	28		66												
6				6	SS	4														
8.8																				
9.0		-Dolostone bed in Vinemount Shale. Borehole terminated at 9.00 m in fill. NOTE: Augered directly to 9.0 m without samplings, stratigraphy inferred from adjacent borehole 57-I.																		

BOREHOLE LOG	PROJECT: 92-372	BOREHOLE: 58-I 1 of 1
HYDROGEOLOGICAL INVESTIGATION TARO QUARRIES - STONEY CREEK FOR: TARO AGGREGATES LTD.		DATE: 19 September 1992 GEOLOGIST SMA ELEVATION m ASL

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE						RECOVERY (%)				RQD (%)					
				NUMBER	INTERVAL	TYPE	N VALUE	% WATER	% REC	% RQD	25	50	75	100	25	50	75	100	
1		INDUSTRIAL WASTE Black clayey silt, some fine sand, trace gravel, wet, compact. -Slight sulphurous odour detected. -Obstruction encountered at about 1.5 m.		1		SS	12			100									
2		Becoming a dark brown to black silty fine sand, some gravel, trace clay, moist, compact to dense, below about 1.5 m		2		SS	10			5									
3				3		SS	29			60									
4				4		SS	11			65									
5				5		SS	50			50									
6				6		SS	26			60									
7				7		SS	23			56									
8				8		SS	22			63									
9				9		SS	34			55									
10				10		SS	27			75									
11				11		SS	17			83									
11.4				12		SS	11			83									
				13		SS	14			80									
				14		SS	>30			5									
		Borehole terminated at 11.37 m in industrial fill on assumed bedrock.																	

BOREHOLE LOG	PROJECT: 92-372	BOREHOLE: 59-I 1 of 2
HYDROGEOLOGICAL INVESTIGATION TARO QUARRIES - STONEY CREEK FOR: TARO AGGREGATES LTD.		DATE: 7 October 1992 GEOLOGIST SMA ELEVATION 187.1 m ASL

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE					RECOVERY (%)				RQD (%)						
				NUMBER	INTERVAL	TYPE	N VALUE	% WATER	% REC	% RQD									
											25	50	75	100	25	50	75	100	
0.6		TOPSOIL Dark brown clayey silt, rootlets and organic matter, WTPL, firm		1	SS	8	25	75											
1		CLAYEY SILT Brown clayey silt, trace fine sand, DTPL, stiff to very stiff.		2	SS	15	21	75											
2.0				3	SS	29	20	80											
2		GOAT ISLAND DOLOSTONE Grey, fine crystalline, thin bedded dolostone, occasional shale stringers, minor occurrences of vugs. -Brown to grey brown, fractured and weathered to about 3.1 m.		1	HQ			100	57										
3																			
4																			
5		-Increasing chert below about 5.1 m.		2	HQ			98	67										
5.8																			
6		ANDCASTER CHERT BEDS Light brownish grey to grey, very fine crystalline, thin to medium bedded siliceous dolostone with numerous chert nodules and layers, minor occurrences of sphalerite mineralization and small vugs. -Large cavity(3 cm) with some calcite infilling and well formed crystals at about 5.9 m, some reddish brown precipitate. Subvertical fracture observed at about 6.0 m with same pricipitate. -Fractured zone from about 8.2 to 8.5 m.																	
7																			
8				3	HQ			100	82										
9																			
9.4																			
10		GASPORT DOLOSTONE Blue grey to buff, coarse crystalline, medium bedded dolostone, porous, trace fossils.																	
11.1																			
11		DECEW DOLOSTONE Grey, fine crystalline, medium bedded dolostone interbedded with shale.		4	HQ			100	100										
12																			
12.3																			
13		ROCHESTER SHALE Dark grey to grey, aphanitic to very fine crystalline, thick to massive dolomitic shale, trace fossils.																	
14				5	HQ			100	94										

BOREHOLE LOG	PROJECT: 92-372	BOREHOLE: 59-1 2 of 2
HYDROGEOLOGICAL INVESTIGATION TARO QUARRIES - STONEY CREEK FOR: TARO AGGREGATES LTD.		DATE: 7 October 1992 GEOLOGIST SMA ELEVATION 187.1 m ASL

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE					RECOVERY (%)				RQD (%)							
				NUMBER	INTERVAL	TYPE	N VALUE	% WATER	% REC	% RQD										
											25	50	75	100	25	50	75	100		
16	[Pattern]	ROCHESTER SHALE (contiued)	[Pattern]	[Pattern]																
17.1		17																		-Shale bed from about 15.9 to 16.3 m. -Becoming thinly interbedded below about 16.7 m, with increasing shale content.
		Borehole terminated at 17.07 m in a dolomitic shale.																		

BOREHOLE LOG	PROJECT: 92-372	BOREHOLE: 59-II 1 of 1
HYDROGEOLOGICAL INVESTIGATION TARO QUARRIES - STONEY CREEK FOR: TARO AGGREGATES LTD.		DATE: 8 October 1992 GEOLOGIST SMA ELEVATION 187.1 m ASL

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE						RECOVERY (%)				RQD (%)				
				NUMBER	INTERVAL	TYPE	N	% WATER	% REC	% RQD	25	50	75	100	25	50	75	100
0.6		TOPSOIL Dark brown clayey silt, rootlets and organic matter, WTPL, firm																
1		CLAYEY SILT Brown clayey silt, trace fine sand, DTPL, stiff to very stiff.																
2.1		GOAT ISLAND DOLOSTONE Grey, fine crystalline, thin to bedded dolostone, occasional shale stringers, minor occurrences of vugs. -Brown to grey brown, fractured and weathered to about 3.1 m.																
3																		
4																		
5		-Increasing chert below about 5.1 m.																
5.8		ANDCASTER CHERT BEDS Light brownish grey to grey, very fine crystalline, thin to medium bedded siliceous dolostone with numerous chert nodules and layers, minor occurrences of sphalerite mineralization and small vugs. -Large cavity(3 cm) with some calcite infilling and well formed crystals at about 5.9 m, some reddish brown precipitate. Subvertical fracture observed at about 6.0 m with same pricipitate. -Fractured zone from about 8.2 to 8.5 m.																
6																		
7																		
8																		
8																		
9																		
9.4		Borehole terminated at 9.38 m in siliceous dolostone. NOTE: Stratigraphy inferred from adjacent borehole 59-I. Borehole cored directly to 9.38 m, logged to confirm contacts and for monitor placement.																

BOREHOLE LOG	PROJECT: 92-372	BOREHOLE: 59-III 1 of 1
HYDROGEOLOGICAL INVESTIGATION TARO QUARRIES - STONEY CREEK FOR: TARO AGGREGATES LTD.		DATE: 8 October 1992 GEOLOGIST SMA ELEVATION 187.1 m ASL

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE						RECOVERY (%)				RQD (%)						
				NUMBER	INTERVAL	TYPE	N VALUE	% WATER	% REC	% RQD										
											25	50	75	100	25	50	75	100		
0.6		TOPSOIL Dark brown clayey silt, rootlets and organic matter, WTPL, firm																		
1		CLAYEY SILT Brown clayey silt, trace fine sand, DTPL, stiff to very stiff.																		
2.1		GOAT ISLAND DOLOSTONE Grey, fine crystalline, thin to bedded dolostone, occasional shale stringers, minor occurrences of vugs. -Brown to grey brown, fractured and weathered to about 3.1 m.																		
3																				
4																				
5		-Increasing chert below about 5.1 m.																		
5.8																				
6		ANDCASTER CHERT BEDS Light brownish grey to grey, very fine crystalline, thin to medium bedded siliceous dolostone with numerous chert nodules and layers, minor occurrences of sphalerite mineralization and small vugs. -Large cavity(3 cm) with some calcite infilling and well formed crystals at about 5.9 m, some reddish brown precipitate. Subvertical fracture observed at about 6.0 m with same precipitate.																		
7.2		Borehole terminated at 7.24 m in siliceous dolostone. NOTE: Stratigraphy inferred from adjacent borehole 59-I. Borehole cored directly to 7.24 m, logged to confirm contacts and for monitor placement.																		

BOREHOLE LOG	PROJECT: 92-372	BOREHOLE: 60-1 1 of 2
HYDROGEOLOGICAL INVESTIGATION TARO QUARRIES - STONEY CREEK FOR: TARO AGGREGATES LTD.		DATE: 14 October 1992 GEOLOGIST SMA ELEVATION 200.3 m ASL

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE						RECOVERY (%)				RQD (%)						
				NUMBER	INTERVAL	TYPE	N	VALUE	% WATER	% REC	% RQD									
												25	50	75	100	25	50	75	100	
1	[Cross-hatched pattern]	FILL Brown, mottled gret, clayey silt, some gravel, trace fine sand and brick fragments, moist, compact. -Changing to a silt and clay below about 1.5 m.	[Vertical bar with horizontal lines]	1	SS	12			10											
2.2		2		SS	16	21	50													
3		3		SS	7	21	33													
4		4		SS	6	26	38													
5		5		SS	5	24	38													
6		6		SS	6		29													
7.6		7		SS	7	23	40													
8.1	[Dotted pattern]	VINEMOUNT SHALE Dark brownish grey, aphanitic to very fine crystalline, thin to medium bedded shale, interlaminated to locally interbedded with dolostone, dolostone beds usually associated with bioturbation at lower contact and fossils at upper contact. -Grey dolostone bed from about 7.6 to 8.2 m, moderate shale content locally.	[Vertical bar with horizontal lines]	1	HQ			99	66											
10		2		HQ		100	93													
11.8	[Dotted pattern]	GOAT ISLAND DOLOSTONE Brownish grey to grey, fine crystalline, thin to medium bedded dolostone, occasional shale stringers, moderate shale content. -1 cm gypsum seam at about 12.8 m, slightly weathered.	[Vertical bar with horizontal lines]	3	HQ			100	96											
13.3																				
14.2	[Dotted pattern]	SHALE Dark brownish grey, medium bedded shale, interlaminated with dolostone, bioturbation at upper contact.	[Vertical bar with horizontal lines]																	

BOREHOLE LOG	PROJECT: 92-372	BOREHOLE: 60-I 2 of 2
HYDROGEOLOGICAL INVESTIGATION TARO QUARRIES - STONEY CREEK FOR: TARO AGGREGATES LTD.		DATE: 14 October 1992 GEOLOGIST SMA ELEVATION 200.3 m ASL

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE						RECOVERY (%)				RQD (%)					
				NUMBER	INTERVAL	TYPE	N VALUE	% WATER	% REC	% RQD									
											25	50	75	100	25	50	75	100	
16.1 16		-Minor occurrences of vugs below about 14.2 m. -Fractured zones at about 14.7 and 15.4 m.	4	H	Q				100	100									▲
		Borehole terminated at 16.10 m in dolostone.																	

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BOREHOLE LOG	PROJECT: 92-372	BOREHOLE: 60-II 1 of 2
HYDROGEOLOGICAL INVESTIGATION TARO QUARRIES - STONEY CREEK FOR: TARO AGGREGATES LTD.		DATE: 14 October 1992 GEOLOGIST SMA ELEVATION 200.4 m ASL

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE						RECOVERY (%)				RQD (%)						
				NUMBER	INTERVAL	TYPE	N	VALUE	% WATER	% REC	% RQD									
												25	50	75	100	25	50	75	100	
1		FILL Brown, mottled gret, clayey silt, some gravel, trace fine sand and brick fragments, moist, compact. -Changing to a silt and clay below about 1.5 m.																		
2.2		CLAYEY SILT Brown clayey silt, trace gravel, APL, firm.																		
3																				
4																				
5																				
6																				
7																				
7.6																				
8.1		VINEMOUNT SHALE Dark brownish grey, aphanitic to very fine crystalline, thin to medium bedded shale, interlaminated to locally interbedded with dolostone, dolostone beds usually associated with bioturbation at lower contact and fossils at upper contact. -Grey dolostone bed from about 7.6 to 8.2 m, moderate shale content locally.																		
9																				
10																				
11																				
11.8																				
12		GOAT ISLAND DOLOSTONE Brownish grey to grey, fine crystalline, thin to medium bedded dolostone, occasional shale stringers, moderate shale content. -1 cm gypsum seam at about 12.8 m, slightly weathered.																		
13.3																				
13.4		SHALE Borehole terminated at 13.44 m in dolostone. NOTE: Stratigraphy inferred from adjacent borehole 60-I. Borehole cored directly to 13.44 m, logged to																		

BOREHOLE LOG	PROJECT: 92-372	BOREHOLE: 60-II 2 of 2
HYDROGEOLOGICAL INVESTIGATION TARO QUARRIES - STONEY CREEK FOR: TARO AGGREGATES LTD.		DATE: 14 October 1992 GEOLOGIST SMA ELEVATION 200.4 m ASL

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE						RECOVERY (%)				RQD (%)				
				NUMBER	INTERVAL	TYPE	N VALUE	% WATER	% REC	% RQD	25	50	75	100	25	50	75	100
		confirm contacts and for monitor placement.																

BOREHOLE LOG	PROJECT: 92-372	BOREHOLE: 60-III 1 of 1
HYDROGEOLOGICAL INVESTIGATION TARO QUARRIES - STONEY CREEK FOR: TARO AGGREGATES LTD.		DATE: 15 October 1992 GEOLOGIST SMA ELEVATION 200.4 m ASL

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE						RECOVERY (%)				RQD (%)						
				NUMBER	INTERVAL	TYPE	N VALUE	% WATER	% REC	% RQD										
											25	50	75	100	25	50	75	100		
1	[Cross-hatched pattern]	FILL Brown, mottled grey, clayey silt, some gravel, trace fine sand and brick fragments, moist, compact. -Changing to a silt and clay below about 1.5 m.	[Solid black pattern]																	
2.2		CLAYEY SILT Brown clayey silt, trace gravel, APL, firm.																		
3	[Diagonal hatched pattern]		[Solid black pattern]																	
4		FILL																		
5																				
6	[Diagonal hatched pattern]		[Solid black pattern]																	
7																				
7.6																				
8.1	[Vertical hatched pattern]	VINEMOUNT SHALE Dark brownish grey, aphanitic to very fine crystalline, thin to medium bedded shale, interlaminated to locally interbedded with dolostone, dolostone beds usually associated with bioturbation at lower contact and fossils at upper contact.	[Vertical hatched pattern]																	
9																				
9.7		-Grey dolostone bed from about 7.6 to 8.2 m, moderate shale content locally. Borehole terminated at 9.72 m in shale. NOTE: Stratigraphy inferred from adjacent borehole 60-I. Borehole cored directly to 9.72 m, logged to confirm contacts and for monitor placement.																		

BOREHOLE LOG	PROJECT: 95-422	BOREHOLE: 60-IV 1 of 2
CONTAINMENT WELL INSTALLATION AND PUMP TESTING Taro - West Quarry, Stoney Creek FOR: TARO AGGREGATES LTD.		DATE: 22 June 1995 GEOLOGIST SMA ELEVATION 200.5 m ASL

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE						RECOVERY (%)				RQD (%)					
				NUMBER	INTERVAL	TYPE	N VALUE	% WATER	% REC	% RQD									
											25	50	75	100	25	50	75	100	
1		FILL Brown, mottled grey, clayey silt, some gravel, trace fine sand and brick fragments, moist, compact. -Changing to a silt and clay below about 1.5 m.																	
2.2		CLAYEY SILT Brown clayey silt, trace gravel, APL, firm.																	
3																			
4																			
5																			
6																			
7																			
7.6		NOTE: Borehole augered directly to bedrock. Stratigraphy inferred by cuttings and adjacent borehole 60-I.		1	HQ				100	76									
8.1		VINEMOUNT SHALE Dark brownish grey, aphanitic to very fine crystalline, thin to medium bedded shale, interlaminated to locally interbedded with dolostone, dolostone beds usually associated with bioturbation at lower contact and fossils at upper contact. -Grey dolostone bed from about 7.6 to 8.2 m, moderate shale content locally. -Vertical fracture from about 8.3 to 8.5 m.		2	HQ				94	45									
9																			
10				3	HQ				100	97									
11				4	HQ				100	97									
11.8																			
12		GOAT ISLAND DOLOSTONE Brownish grey to grey, fine crystalline, thin to medium bedded dolostone, occasional shale stringers, moderate shale content. -1 cm gypsum seam at about 12.8 m, slightly weathered. -Shale bed at about 13.3-14.1 m.		5	HQ				100	94									
13.3																			
14.2		SHALE Dark brownish grey, medium bedded shale, interlaminated with dolostone, bioturbation at upper		6	HQ				100	72									

BOREHOLE LOG	PROJECT: 95-422	BOREHOLE: 60-IV 2 of 2
CONTAINMENT WELL INSTALLATION AND PUMP TESTING Taro - West Quarry, Stoney Creek FOR: TARO AGGREGATES LTD.		DATE: 22 June 1995 GEOLOGIST SMA ELEVATION 200.5 m ASL

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE				RECOVERY (%)				RQD (%)							
				NUMBER	INTERVAL	TYPE	N VALUE	% WATER	% REC	% RQD									
											25	50	75	100	25	50	75	100	
16		contact. -Minor occurrences of vugs below about 14.2 m. -Fractured zones at about 14.7 and 15.4 m.		7	HQ			100	98										
17				8	HQ			100	96										
18																			
19				9	HQ			100	98										
20.3																			
21		ANGASTER CHERT BEDS Light brownish grey, fine crystalline, medium to thick bedded dolostone, with numerous chert nodules and layers. Minor occurrences of shale stringers and vugs. -Weathered fracture with calcite and shale at about 21.4 m.		10	HQ			100	92										
22		-Calcite on fracture at about 22.4 m.		11	HQ			100	100										
23				12	HQ			100	100										
24																			
25.3				13	HQ			100	100										
26		GASPORT DOLOSTONE Greyish blue to buff, coarse crystalline, thick bedded dolostone, porous, trace fissils.																	
26.3		Borehole terminated at 26.33 m in dolostone.																	

BOREHOLE LOG	PROJECT: 92-372	BOREHOLE: 61-I 1 of 2
HYDROGEOLOGICAL INVESTIGATION TARO QUARRIES - STONEY CREEK FOR: TARO AGGREGATES LTD.		DATE: 13 October 1992 GEOLOGIST PW ELEVATION 201.6 m ASL

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE						RECOVERY (%)				RQD (%)					
				NUMBER	INTERVAL	TYPE	N	VALUE	WATER %	REC %	RQD %	25	50	75	100	25	50	75	100
0.4		TOPSOIL Light brown to brown, slightly mottled, sandy silt, rootlets.		1		SS	11	15	40										
1		FILL Brown silt with clay, trace sand to fine gravel, moist, compact.		2		SS	13	11	30										
1.5				3		SS	61	15	30										
2		CLAYEY SILT Brown mottled clayey silt, trace sand, DTPL, firm to hard.		4		SS	31	16	50										
3				5		SS	19	21	50										
4		-Laminated below about 3.5 m.		6		SS	6	22	50										
5				7		SS	6	23	35										
6				8		SS	8	24	35										
6.9				9		SS			20										
7		ERAMOSA DOLOSTONE Brownish grey to grey, fine crystalline, thin bedded dolostone, heavily fractured and weathered to about 7.6 m, moderate shale content, transitional.		1		HQ			65	16									
8				2		HQ			100	50									
8.7																			
9		VINEMOUNT SHALE Dark brownish grey, aphanitic to very fine crystalline, thin to medium bedded shale, interlaminated with dolostone, moderate dolostone content locally, some fossils.		3		HQ			100	87									
9.8																			
10																			
10.4		-Grey dolostone bed from about 9.8 to 10.4 m, moderate shale content locally, broken up at upper contact.																	
11						HQ		4	99	72									
12																			
13						HQ		5	99	73									
14																			
14.5		GOAT ISLAND DOLOSTONE				HQ		6	100	85									

BOREHOLE LOG	PROJECT: 92-372	BOREHOLE: 61-I 2 of 2
HYDROGEOLOGICAL INVESTIGATION TARO QUARRIES - STONEY CREEK FOR: TARO AGGREGATES LTD.		DATE: 13 October 1992 GEOLOGIST PW ELEVATION 201.6 m ASL

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE					RECOVERY (%)				RQD (%)					
				NUMBER	INTERVAL	TYPE	N VALUE	% WATER	% REC	% RQD								
											25	50	75	100	25	50	75	100
15.5		Brownish grey to grey, fine crystalline, thin to medium bedded dolostone, moderate shale content.																
		- Weathered between about 15.0 and 15.1 m.																
16.3		SHALE																
		Dark brownish grey, medium bedded shale, interlaminated with dolostone, bioturbation at upper contact.																
17																		
		-Fractured zone from about 17.1 to 17.2 m.																
		-Becoming thick bedded below 17.7 m.																
18																		
18.4		Borehole terminated at 18.41 m in dolostone.																

BOREHOLE LOG	PROJECT: 92-372	BOREHOLE: 61-II 1 of 2
HYDROGEOLOGICAL INVESTIGATION TARO QUARRIES - STONEY CREEK FOR: TARO AGGREGATES LTD.		DATE: 14 October 1992 GEOLOGIST PW ELEVATION 201.6 m ASL

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE						RECOVERY (%)				RQD (%)						
				NUMBER	INTERVAL	TYPE	N VALUE	% WATER	% REC	% RQD										
											25	50	75	100	25	50	75	100		
0.4		TOPSOIL Light brown to brown, slightly mottled, sandy silt, rootlets.																		
1		FILL Brown silt with clay, trace sand to fine gravel, moist, compact.																		
1.5																				
2		CLAYEY SILT Brown mottled clayey silt, trace sand, DTPL, firm to hard.																		
3																				
4		-Laminated below about 3.5 m.																		
5																				
6																				
6.9																				
7		ERAMOSIA DOLOSTONE Brownish grey to grey, fine crystalline, thin bedded dolostone, heavily fractured and weathered to about 7.6 m, moderate shale content, transitional.																		
8																				
8.7																				
9		VINEMOUNT SHALE Dark brownish grey, aphanitic to very fine crystalline, thin to medium bedded shale, interlaminated with dolostone, moderate dolostone content locally, some fossils.																		
9.8																				
10																				
10.4		-Grey dolostone bed from about 9.8 to 10.4 m, moderate shale content locally, broken up at upper contact.																		
11																				
12																				
13																				
14																				
14.5		GOAT ISLAND DOLOSTONE																		

BOREHOLE LOG	PROJECT: 92-372	BOREHOLE: 61-II 2 of 2
HYDROGEOLOGICAL INVESTIGATION TARO QUARRIES - STONEY CREEK FOR: TARO AGGREGATES LTD.		DATE: 14 October 1992 GEOLOGIST PW ELEVATION 201.6 m ASL

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE						RECOVERY (%)				RQD (%)				
				NUMBER	INTERVAL	TYPE	N VALUE	% WATER	% REC	% RQD	25	50	75	100	25	50	75	100
15.4 15.6		Brownish grey to grey, fine crystalline, thin to medium bedded dolostone, moderate shale content. - Weathered between about 15.0 and 15.1 m. SHALE Borehole terminate at 15.55 m in dolostone. NOTE: Stratigraphy inferred from adjacent borehole 61-I. Borehole cored directly to 15.55 m, logged to confirm contacts and for monitor placement.																

BOREHOLE LOG	PROJECT: 92-372	BOREHOLE: 61-III 1 of 1
HYDROGEOLOGICAL INVESTIGATION TARO QUARRIES - STONEY CREEK FOR: TARO AGGREGATES LTD.		DATE: 15 September 1992 GEOLOGIST PW ELEVATION 201.7 m ASL

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE						RECOVERY (%)				RQD (%)					
				NUMBER	INTERVAL	TYPE	N VALUE	% WATER	% REC	% RQD	25	50	75	100	25	50	75	100	
0.4		TOPSOIL Light brown to brown, slightly mottled, sandy silt, rootlets.																	
1		FILL Brown silt with clay, trace sand to fine gravel, moist, compact.																	
1.5		CLAYEY SILT Brown mottled clayey silt, trace sand, DTPL, firm to hard. -Laminated below about 3.5 m.																	
2																			
3																			
4																			
5																			
6																			
6.9																			
7		ERAMOSIA DOLOSTONE Brownish grey to grey, fine crystalline, thin bedded dolostone, heavily fractured and weathered to about 7.6 m, moderate shale content, transitional.																	
8																			
8.7																			
9		VINEMOUNT SHALE Dark brownish grey, aphanitic to very fine crystalline, thin to medium bedded shale, interlaminated with dolostone, moderate dolostone content locally, some fossils. -Grey dolostone bed from about 9.8 to 10.4 m, moderate shale content locally, broken up at upper contact.																	
9.8																			
10																			
10.4																			
11.2																			
11																			
		Borehole terminated at 11.20 m in shale. NOTE: Stratigraphy inferred from adjacent borehole 61-I. Borehole cored directly to 11.20 m, logged to confirm contacts and for monitor placement.																	

BOREHOLE LOG	PROJECT: TARO	BOREHOLE: 62-I 1 of 2
HYDROGEOLOGICAL INVESTIGATION TARO QUARRIES - STONEY CREEK FOR: TARO AGGREGATES LTD.		DATE: 4 July 1994 GEOLOGIST SMA ELEVATION 190.9 m ASL

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE					RECOVERY (%)				RQD (%)						
				NUMBER	INTERVAL	TYPE	N VALUE	% WATER	% REC	% RQD									
											25	50	75	100	25	50	75	100	
0.6		TOPSOIL Brown sandy silt with some clay and rootlets, moist.																	
1		SANDY SILT TILL Brown sandy silt, some clay, trace gravel, some fracturing, moist, dense. Black mottling observed along fracture surfaces.																	
2.0		GOAT ISLAND DOLOSTONE																	
2.4		SHALE Dark brownish grey, aphanitic to very fine crystalline, thin bedded shale, locally interlaminated to interbedded with dolostone, trace fossils.																	
3.1		GOAT ISLAND DOLOSTONE Brownish grey to grey, fine crystalline, thin to medium bedded dolostone, moderate shale content, occasional shale stingers and vugs infilled with calcite.																	
4																			
5																			
6																			
7																			
8																			
9																			
10		-Some chert nodules below about 9.8 m.																	
10.7		-Fracture at about 10.5 m and 10.6 m.																	
11		ANCASTER CHERT BEDS Light brownish grey, fine crystalline, medium bedded siliceous dolostone with numerous chert nodules and beds, rare shale stringers.																	
12		-Open fracture at about 11.5 m with calcite and shale.																	
13																			
14		GASPORT DOLOSTONE Medium blue grey, coarse crystalline, medium bedded																	
14.4																			

BOREHOLE LOG	PROJECT: TARO	BOREHOLE: 62-1 2 of 2
HYDROGEOLOGICAL INVESTIGATION TARO QUARRIES - STONEY CREEK FOR: TARO AGGREGATES LTD.		DATE: 4 July 1994 GEOLOGIST SMA ELEVATION 190.9 m ASL

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE						RECOVERY (%)				RQD (%)						
				NUMBER	INTERVAL	TYPE	N	VALUE	% WATER	% REC	% RQD									
												25	50	75	100	25	50	75	100	
15.5		dolostone, locally porous and vuggy.																		
		Borehole terminated at 15.46 m in dolostone																		

BOREHOLE LOG	PROJECT: TARO	BOREHOLE: 62-II 1 of 1
HYDROGEOLOGICAL INVESTIGATION TARO QUARRIES - STONEY CREEK FOR: TARO AGGREGATES LTD.		DATE: 30 June 1994 GEOLOGIST SMA ELEVATION 191.0 m ASL

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE						RECOVERY (%)				RQD (%)						
				NUMBER	INTERVAL	TYPE	N VALUE	% WATER	% REC	% RQD										
											25	50	75	100	25	50	75	100		
0.6		TOPSOIL Brown sandy silt with some clay and rootlets, moist.																		
1		SANDY SILT TILL Brown sandy silt, some clay, trace gravel, some fracturing, moist, dense. Black mottling observed along fracture surfaces.																		
2.0		GOAT ISLAND DOLOSTONE																		
2.4		SHALE																		
3.1		Dark brownish grey, aphanitic to very fine crystalline, thin bedded shale, locally interlaminated to interbedded with dolostone, trace fossils.																		
4		GOAT ISLAND DOLOSTONE Brownish grey to grey, fine crystalline, thin to medium bedded dolostone, moderate shale content, occasional shale stingers and vugs infilled with calcite.																		
5																				
6																				
7																				
8																				
9																				
10		-Some chert nodules below about 9.8 m.																		
10.7		-Fracture at about 10.5 m and 10.6 m.																		
11.1		ANCASTER CHERT BEDS Light brownish grey, fine crystalline, medium bedded siliceous dolostone with numerous chert nodules and beds. Borehole terminated at 11.07 m in dolostone NOTE: Borehole drilled directly to 11.07 m. Stratigraphy inferred from adjacent borehole 62-1.																		

BOREHOLE LOG	PROJECT: TARO	BOREHOLE: 62-III 1 of 1
HYDROGEOLOGICAL INVESTIGATION TARO QUARRIES - STONEY CREEK FOR: TARO AGGREGATES LTD.		DATE: 5 July 1994 GEOLOGIST SMA ELEVATION 191.0 m ASL

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE						RECOVERY (%)				RQD (%)				
				NUMBER	INTERVAL	TYPE	N VALUE	% WATER	% REC	% RQD	25	50	75	100	25	50	75	100
0.6		TOPSOIL Brown sandy silt with some clay and rootlets, moist.																
1		SANDY SILT TILL Brown sandy silt, some clay, trace gravel, some fracturing, moist, dense. Black mottling observed along fracture surfaces.																
2.0																		
2.4		GOAT ISLAND DOLOSTONE																
3.1		SHALE Dark brownish grey, aphanitic to very fine crystalline, thin bedded shale, locally interlaminated to interbedded with dolostone, trace fossils.																
4		GOAT ISLAND DOLOSTONE Brownish grey to grey, fine crystalline, thin to medium bedded dolostone, moderate shale content, occasional shale stingers and vugs infilled with calcite.																
5.4		Borehole terminated at 5.39 m in dolostone. NOTE: Borehole drilled directly to 5.39 m. Stratigraphy inferred from adjacent borehole 62-I.																

BOREHOLE LOG	PROJECT: TARO	BOREHOLE: 62-IV 1 of 1
HYDROGEOLOGICAL INVESTIGATION TARO QUARRIES - STONEY CREEK FOR: TARO AGGREGATES LTD.		DATE: 5 July 1994 GEOLOGIST SMA ELEVATION 191.0 m ASL

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE						RECOVERY (%)				RQD (%)						
				NUMBER	INTERVAL	TYPE	N VALUE	% WATER	% REC	% RQD										
											25	50	75	100	25	50	75	100		
0.6		TOPSOIL Brown sandy silt with some clay and rootlets, moist.																		
1		SANDY SILT TILL Brown sandy silt, some clay, trace gravel, some fracturing, moist, dense. Black mottling observed along fracture surfaces.																		
2.0		GOAT ISLAND DOLOSTONE																		
2.4		SHALE Dark brownish grey, aphanitic to very fine crystalline, thin bedded shale, locally interlaminated to interbedded with dolostone, trace fossils. Borehole terminated at 2.54 m in shale. NOTE: Borehole drilled directly to 2.54 m. Stratigraphy inferred from adjacent borehole 62-I.																		
2.6																				

BOREHOLE LOG	PROJECT: TARO	BOREHOLE: 63-I	1 of 2
HYDROGEOLOGICAL INVESTIGATION TARO QUARRIES - STONEY CREEK FOR: TARO AGGREGATES LTD.		DATE: 5 July 1994 GEOLOGIST SMA ELEVATION 193.8 m ASL	

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE						RECOVERY (%)				RQD (%)					
				NUMBER	INTERVAL	TYPE	N	VALUE	% WATER	% REC	% RQD								
												25	50	75	100	25	50	75	100
0.6		TOPSOIL Brown sandy silt with some clay and rootlets, moist.																	
1		SANDY SILT TILL Brown sandy silt, some clay, trace gravel, some fracturing, moist, dense.																	
2																			
3																			
4.0		-Becoming grey with increasing silt below about 4.0 m.																	
4.9																			
5		GOAT ISLAND DOLOSTONE Brownish grey to grey, fine crystalline, thin to medium bedded dolostone, moderate shale content, occasional shale stringers and vugs infilled with calcite.																	
5.9																			
6.7		SHALE Dark brownish grey, aphanitic to very fine crystalline, thin bedded shale, locally interlaminated to interbedded with dolostone, trace fossils.																	
7																			
8		GOAT ISLAND DOLOSTONE Brownish grey to grey, fine crystalline, thin to medium bedded dolostone, moderate shale content, occasional shale stringers and vugs infilled with calcite. -Open fracture at about 9.1 and 9.2 m.																	
9																			
10																			
11																			
12																			
13.2		-Open fractures below about 12.8 m.																	
13																			
14		ANCASTER CHERT BEDS Light brownish grey, fine crystalline, medium bedded siliceous dolostone with numerous chert nodules and beds, rare shale stringers. -Open fracture at about 11.5 m with calcite and shale.																	

BOREHOLE LOG	PROJECT: TARO	BOREHOLE: 63-II 1 of 1
HYDROGEOLOGICAL INVESTIGATION TARO QUARRIES - STONEY CREEK FOR: TARO AGGREGATES LTD.		DATE: 6 July 1994 GEOLOGIST SMA ELEVATION 194.0 m ASL

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE						RECOVERY (%)				RQD (%)						
				NUMBER	INTERVAL	TYPE	N VALUE	% WATER	% REC	% RQD										
											25	50	75	100	25	50	75	100		
0.6		TOPSOIL Brown sandy silt with some clay and rootlets, moist.																		
1		SANDY SILT TILL Brown sandy silt, some clay, trace gravel, some fracturing, moist, dense.																		
2																				
3																				
4.0		-Becoming grey with increasing silt below about 4.0 m.																		
4.9																				
5		GOAT ISLAND DOLOSTONE Brownish grey to grey, fine crystalline, thin to medium bedded dolostone, moderate shale content, occasional shale stingers and vugs infilled with calcite.																		
5.9																				
6																				
6.7		SHALE Dark brownish grey, aphanitic to very fine crystalline, thin bedded shale, locally interlaminated to interbedded with dolostone, trace fossils.																		
7																				
8		GOAT ISLAND DOLOSTONE Brownish grey to grey, fine crystalline, thin to medium bedded dolostone, moderate shale content, occasional shale stingers and vugs infilled with calcite.																		
9		-Open fracture at about 9.1 and 9.2 m.																		
10																				
11																				
12																				
13.1		-Open fractures below about 12.8 m.																		
13		Borehole terminated at 13.10 m. in dolostone. NOTE: Borehole augered directly to 13.1 m. Stratigraphy inferred from adjacent borehole 63-I.																		

BOREHOLE LOG	PROJECT: TARO	BOREHOLE: 63-III 1 of 1
HYDROGEOLOGICAL INVESTIGATION TARO QUARRIES - STONEY CREEK FOR: TARO AGGREGATES LTD.		DATE: 6 July 1994 GEOLOGIST SMA ELEVATION 194.0 m ASL

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE						RECOVERY (%)				RQD (%)				
				NUMBER	INTERVAL	TYPE	N VALUE	% WATER	% REC	% RQD	25	50	75	100	25	50	75	100
0.6		TOPSOIL Brown sandy silt with some clay and rootlets, moist.																
1		SANDY SILT TILL Brown sandy silt, some clay, trace gravel, some fracturing, moist, dense.																
2																		
3																		
4.0		-Becoming grey with increasing silt below about 4.0 m.																
4.9																		
5		GOAT ISLAND DOLOSTONE Brownish grey to grey, fine crystalline, thin to medium bedded dolostone, moderate shale content, occasional shale stingers and vugs infilled with calcite.																
5.9																		
6																		
6.7		SHALE Dark brownish grey, aphanitic to very fine crystalline, thin bedded shale, locally interlaminated to interbedded with dolostone, trace fossils.																
7																		
7.9		GOAT ISLAND DOLOSTONE Brownish grey to grey, fine crystalline, thin to medium bedded dolostone, moderate shale content, occasional shale stingers and vugs infilled with calcite. Borehole terminated at 7.92 m in dolostone. NOTE: Borehole augered directly to 7.92 m. Stratigraphy inferred from adjacent borehole 63-I.																

BOREHOLE LOG	PROJECT: TARO	BOREHOLE: 63-IV 1 of 1
HYDROGEOLOGICAL INVESTIGATION TARO QUARRIES - STONEY CREEK FOR: TARO AGGREGATES LTD.		DATE: 7 July 1994 GEOLOGIST SMA ELEVATION 194.0 m ASL

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE						RECOVERY (%)			RQD (%)					
				NUMBER	INTERVAL	TYPE	N VALUE	% WATER	% REC	% RQD	25	50	75	100	25	50	75	100
0.6		TOPSOIL Brown sandy silt with some clay and rootlets, moist.																
1		SANDY SILT TILL Brown sandy silt, some clay, trace gravel, some fracturing, moist, dense.																
2																		
3																		
4.0		- Becoming grey with increasing silt below about 4.0 m.																
4.9																		
5.7		GOAT ISLAND DOLOSTONE Brownish grey to grey, fine crystalline, thin to medium bedded dolostone, moderate shale content, occasional shale stringers and vugs infilled with calcite. Borehole terminated at 5.74 m in dolostone. NOTE: Borehole augered directly to 5.74 m. Stratigraphy inferred from adjacent borehole 63-I.																

BOREHOLE LOG

PROJECT: 97-557 TARO

BOREHOLE: 64-I 1 of 1

HYDROGEOLOGICAL INVESTIGATIONS

Stoney Creek, Ontario

FOR: TARO AGGREGATES LTD.

DATE: 25 November 1996

GEOLOGIST PW

ELEVATION 200.27 m ASL

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE						RECOVERY			RQD						
				NUMBER	INTERVAL	TYPE	N VALUE	% WATER	% REC	% RQD	RECOVERY (%)			RQD (%)					
											25	50	75	100	25	50	75	100	
0.5		CLAYEY SILT Mottled reddish-brown clayey silt with fine sand, APL to DTPL, soft to fi rm.		1	SS	27				0									
1		ERAMOSA DOLOSTONE Brown to brownish-grey, fine crystalline, thin to thick bedded dolostone, shale stringers throughout, numerous vugs to about 1 m, iron stained vugs at about 1.5 m and 1.8 m.		2	HQ					94	7								
2				3	HQ					100	35								
3		2 cm grey clay layer at about 3.2 m.		4	HQ					100	22								
4		Iron stained fracture at about 4 m.		5	HQ					100	72								
5				6	HQ					100	45								
6		2 cm thick grey clay layer at about 5.7 m.		7	HQ					100	82								
6.4		VINEMOUNT SHALE Dark brownish-grey, aphanitic, thin to thick bedded shale, locally interlaminated and interbedded with dolostone, locally fossiliferous.		8	HQ					100	88								
7		Thin clay layer at about 6.5 m.		9	HQ					100	97								
7.5		5 cm thick grey clay layer at about 7.3 m.		10	HQ					100	100								
8.0		Grey dolostone bed with occasional shale stringers at about 7.5 m to 8.1 m.																	
9		4 cm thick grey clay layer at about 8.2 m.																	
10																			
11																			
11.8		GOAT ISLAND DOLOSTONE Grey, fine crystalline, medium bedded dolostone, occasional shale stringers.																	
12		5 cm thick grey clay layer at about 12.5 m.																	
13.0		1 cm thick gypsum seam at about 12.7 m. Bionurbation at about 12.9 m. Borehole terminated at 13.0 m in dolostone.																	

BOREHOLE LOG	PROJECT: 97-557 TARO	BOREHOLE: 64-II	1 of 1
HYDROGEOLOGICAL INVESTIGATIONS Stoney Creek, Ontario FOR: TARO AGGREGATES LTD.		DATE: 26 November 1996 GEOLOGIST: PW ELEVATION: 200.21 m ASL	

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE					RECOVERY				RQD							
				NUMBER	INTERVAL	TYPE	N VALUE	% WATER	% REC	% RQD	RECOVERY (%)				RQD (%)					
											25	50	75	100	25	50	75	100		
0.5		<u>CLAYEY SILT</u> Mottled reddish-brown clayey silt with fine sand, APL to DTPL, soft to fi rm.		1		HQ				100	37									
1		<u>ERAMOSIA DOLOSTONE</u> Brown to brownish-grey, fine crystalline, thin to thick bedded dolostone, shale stringers throughout, numerous vugs to about 1 m, iron stained vugs at about 1.5 m and 1.8 m.		2		HQ				100	35									
2				3		HQ				100	52									
3		2 cm grey clay layer at about 3.2 m.		4		HQ				100	47									
4		Iron stained fracture at about 4 m.		5		HQ				100	82									
5				6		HQ				100	69									
6		2 cm thick grey clay layer at about 5.7 m.																		
6.4		<u>VINEMOUNT SHALE</u> Dark brownish-grey, aphanitic, thin to thick bedded shale, locally interlaminated and interbedded with dolostone, locally fossiliferous.																		
7		Thin clay layer at about 6.5 m.																		
7.5		5 cm thick grey clay layer at about 7.3 m.																		
8		Grey dolostone bed with occasional shale stringers at about 7.5 m to 8.1 m.																		
8.0		4 cm thick grey clay layer at about 8.2 m.																		
8.4		Borehole terminated at 8.4 m in shale.																		

BOREHOLE LOG	PROJECT: 97-557 TARO	BOREHOLE: 65-I	1 of 2
HYDROGEOLOGICAL INVESTIGATIONS Stoney Creek, Ontario FOR: TARO AGGREGATES LTD.		DATE: 17 December 1997 GEOLOGIST: PW ELEVATION: 199.84 m ASL	

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE					N VALUE				WATER CONTENT (%)					
				NUMBER	INTERVAL	TYPE	N VALUE	% WATER	% REC	% RQD								
											15	30	45	60	10	20	30	40
0.7		<u>CLAYEY SILT</u> Brown clayey silt with gravel and rootlets, very soft, DTPL.		1		SS	8		75									
1		<u>ERAMOSA DOLOSTONE</u> Brown fine crystalline, thin to medium bedded dolostone, very weathered to about 4 m, occasional shale stringers, occasional porous sections.		2		HQ			98	0								
2				3		HQ			67	0								
3				4		HQ			81	18								
4		Becoming brown to greyish-brown below about 3.8 m. Occasional fossils below about 4.3 m.		5		HQ			95	43								
5				6		HQ			100	34								
5.9		Becoming shaly below about 5.6 m.		7		HQ			97	16								
6		<u>VINEMOUNT SHALE</u> Dark grey, aphanitic, thin to medium bedded shale, occasional fossils.		8		HQ			97	68								
7.4				9		HQ			100	78								
7.9		Grey dolostone bed from about 7.4 m to 7.9 m, interbedded with shale. Clay seam at about 8.1 m.		10		HQ			100	80								
8				11		HQ			100	100								
9				12		HQ			100	100								
10		Dolostone bed at about 9.6 m to 9.7 m. Bioturbation at about 9.7 m to 9.8 m.		13		HQ			100	78								
11		Dolostone bed at about 10.3 m to 10.5 m. Clay seam at about 10.5 m.																
11.8		<u>GOAT ISLAND DOLOSTONE</u> Grey fine crystalline, medium bedded dolostone, occasional shale stringers, occasional fossils, occasional vuggy sections.																
12.9		<u>SHALE</u> Dark grey, aphanitic, thin bedded shale, occasional very thin dolostone beds, grading to dolostone, bioturbation at upper contact.																
13.8		Fractured zone between about 14.2 m and 15.3 m.																

BOREHOLE LOG	PROJECT: 97-557 TARO	BOREHOLE: 65-I	2 of 2
HYDROGEOLOGICAL INVESTIGATIONS Stoney Creek, Ontario FOR: TARO AGGREGATES LTD.		DATE: 17 December 1997 GEOLOGIST: PW ELEVATION: 199.84 m ASL	

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE					N VALUE				WATER CONTENT (%)					
				NUMBER	INTERVAL	TYPE	N VALUE	% WATER	% REC	% RQD	15	30	45	60	10	20	30	40
16		Siliceous below about 16.4 m.		14		HQ				100	88							
17		Gypsum seam at about 17.4 m.		15		HQ			100	68								
18		Clay seam at about 17.8 m.		16		HQ			100	78								
19		Clay seam at about 19.4 m.		17		HQ			100	100								
20.3		Becoming fractured below about 19.5 m.		18		HQ			100	97								
21		<u>ANCASTER CHERT BEDS</u> Light greyish-brown fine crystalline, thick bedded siliceous dolostone, numerous cherty nodules throughout.																
22		Trace of shale layer at about 22.3 m.																
23.1		Borehole terminated at 23.09 m in siliceous dolostone.																

BOREHOLE LOG	PROJECT: 97-557 TARO	BOREHOLE: 65-II	1 of 2
HYDROGEOLOGICAL INVESTIGATIONS Stoney Creek, Ontario FOR: TARO AGGREGATES LTD.		DATE: 17 December 1997 GEOLOGIST: PW ELEVATION: 199.90 m ASL	

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE				N VALUE				WATER CONTENT (%)								
				NUMBER	INTERVAL	TYPE	N VALUE	% WATER	% REC	% RQD										
											15	30	45	60	10	20	30	40		
0.7		<u>CLAYEY SILT</u> Brown clayey silt with gravel and rootlets, very soft, DTPL.																		
1		<u>ERAMOSA DOLOSTONE</u> Brown fine crystalline, thin to medium bedded dolostone, very weathered to about 4 m, occasional shale stringers, occasional porous sections.																		
2																				
3																				
4		Becoming brown to greyish-brown below about 3.8 m. Occasional fossils below about 4.3 m.																		
5																				
5.9		Becoming shaly below about 5.6 m.																		
6		<u>VINEMOUNT SHALE</u> Dark grey, aphanitic, thin to medium bedded shale, occasional fossils.																		
7																				
7.4																				
7.9		Grey dolostone bed from about 7.4 m to 7.9 m, interbedded with shale.																		
8		Clay seam at about 8.1 m.																		
9																				
10		Dolostone bed at about 9.6 m to 9.7 m. Bioturbation at about 9.7 m to 9.8 m.																		
11		Dolostone bed at about 10.3 m to 10.5 m. Clay seam at about 10.5 m.																		
11.8																				
12		<u>GOAT ISLAND DOLOSTONE</u> Grey fine crystalline, medium bedded dolostone, occasional shale stringers, occasional fossils, occasional vuggy sections.																		
12.9																				
13		<u>SHALE</u>																		
13.8		Dark grey, aphanitic, thin bedded shale, occasional very thin dolostone beds, grading to dolostone, bioturbation at upper contact.																		
14		Fractured zone between about 14.2 m and 15.3 m.																		

BOREHOLE LOG	PROJECT: 97-557 TARO	BOREHOLE: 65-II 2 of 2
HYDROGEOLOGICAL INVESTIGATIONS Stoney Creek, Ontario FOR: TARO AGGREGATES LTD.	DATE: 17 December 1997 GEOLOGIST PW ELEVATION 199.90 m ASL	

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE						N VALUE				WATER CONTENT (%)				
				NUMBER	INTERVAL	TYPE	N VALUE	% WATER	% REC	% RQD	15	30	45	60	10	20	30	40
15.6		Borehole terminated at 15.62 m in dolostone. NOTE: Borehole stratigraphy inferred from adjacent borehole 65-I. Borehole logged to confirm contacts and for monitor placement.																

BOREHOLE LOG	PROJECT: 97-557 TARO	BOREHOLE: 65-III 1 of 1
HYDROGEOLOGICAL INVESTIGATIONS Stoney Creek, Ontario FOR: TARO AGGREGATES LTD.	DATE: 18 December 1997 GEOLOGIST: PW ELEVATION: 199.86 m ASL	

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE				N VALUE				WATER CONTENT (%)						
				NUMBER	INTERVAL	TYPE	N VALUE	% WATER	% REC	% FGD	15	30	45	60	10	20	30	40
0.7		<u>CLAYEY SILT</u> Brown clayey silt with gravel and rootlets, very soft, DTPL.																
1		<u>ERAMOSA DOLOSTONE</u> Brown fine crystalline, thin to medium bedded dolostone, very weathered to about 4 m, occasional shale stringers, occasional porous sections.																
2																		
3																		
4		Becoming brown to greyish-brown below about 3.8 m. Occasional fossils below about 4.3 m.																
5																		
5.9		Becoming shaly below about 5.6 m.																
6		<u>VINEMOUNT SHALE</u> Dark grey, aphanitic, thin to medium bedded shale, occasional fossils.																
7																		
7.4																		
7.9		Grey dolostone bed from about 7.4 m to 7.9 m, interbedded with shale.																
8		Clay seam at about 8.09 m to 8.14 m.																
9																		
10		Dolostone bed at about 9.6 m to 9.73 m. Bioturbation at about 9.7 m to 9.8 m.																
11		Dolostone bed at about 10.3 m to 10.5 m. Clay seam at about 10.5 m.																
11.8																		
12		<u>GOAT ISLAND DOLOSTONE</u> Grey fine crystalline, medium bedded dolostone, occasional shale stringers, occasional fossils, occasional vuggy sections.																
12.8		Borehole terminated at 12.83 in dolostone. NOTE: Stratigraphy inferred from adjacent borehole 65-1. Borehole logged to confirm contacts and for monitor placement.																

BOREHOLE LOG	PROJECT: 97-557 TARO	BOREHOLE: 65-IV 1 of 1
HYDROGEOLOGICAL INVESTIGATIONS Stoney Creek, Ontario FOR: TARO AGGREGATES LTD.		DATE: 19 December 1997 GEOLOGIST PW ELEVATION 199.90 m ASL

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE						N VALUE				WATER CONTENT (%)				
				NUMBER	INTERVAL	TYPE	N VALUE	% WATER	% REC	% RQD	15	30	45	60	10	20	30	40
0.7		<u>CLAYEY SILT</u> Brown clayey silt with gravel and rootlets, very soft, DTPL.																
1		<u>ERAMOSA DOLOSTONE</u> Brown fine crystalline, thin to medium bedded dolostone, very weathered to about 4 m, occasional shale stringers, occasional porous sections.																
2																		
3																		
4		Becoming brown to greyish-brown below about 3.8 m. Occasional fossils below about 4.3 m.																
5																		
5.9		Becoming shaly below about 5.6 m.																
6		<u>VINEMOUNT SHALE</u> Dark grey, aphanitic, thin to medium bedded shale, occasional fossils.																
7																		
7.4																		
7.9		Grey dolostone bed from about 7.4 m to 7.9 m, interbedded with shale.																
8.3		Clay seam at about 8.1 m.																
		Borehole terminated at 8.25 m in shale. NOTE: Stratigraphy inferred from adjacent borehole 65-I. Borehole logged to confirm contacts and for monitor placement.																

BOREHOLE LOG	PROJECT: 97-557 TARO	BOREHOLE: 65-V	1 of 1
HYDROGEOLOGICAL INVESTIGATIONS Stoney Creek, Ontario FOR: TARO AGGREGATES LTD.		DATE: 19 December 1997 GEOLOGIST PW ELEVATION 199.89 m ASL	

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE						N VALUE				WATER CONTENT (%)				
				NUMBER	INTERVAL	TYPE	N VALUE	% WATER	% REC	% RQD	15	30	45	60	10	20	30	40
0.7		<u>CLAYEY SILT</u> Brown clayey silt with gravel and rootlets, very soft, DTPL.																
1		<u>ERAMOSIA DOLOSTONE</u> Brown fine crystalline, thin to medium bedded dolostone, very weathered to about 4 m, occasional shale stringers, occasional porous sections.																
2																		
3																		
4		Becoming brown to greyish-brown below about 3.8 m. Occasional fossils below about 4.3 m.																
5																		
5.8		Becoming shaly below about 5.6 m. Borehole terminated at 5.79 m in dolostone. NOTE: Stratigraphy inferred from adjacent borehole 65-I. Borehole logged to confirm contacts and for monitor placement.																

BOREHOLE LOG	PROJECT: 97-557 TARO	BOREHOLE: 66-I	1 of 1
HYDROGEOLOGICAL INVESTIGATIONS Stoney Creek, Ontario FOR: TARO AGGREGATES LTD.		DATE: 3 December 1997 GEOLOGIST YS ELEVATION 189.90 m ASL	

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE					N VALUE				WATER CONTENT (%)					
				NUMBER	INTERVAL	TYPE	N VALUE	% WATER	% REC	% RQD								
											15	30	45	60	10	20	30	40
0.6		TOPSOIL Black silty topsoil, some sand, trace gravel, some rootlets and woody pieces, very soft, moist.		1		SS	5		25									
1		CLAYEY SILT Brown mottled rust brown clayey silt with trace sand and gravel, mottled black on fracture surfaces, soft, APL.		2		SS	14		54									
1.9				3		SS	43/		100									
2.1				4	0.15m	HQ			97	0								
3.0		GOAT ISLAND DOLOSTONE Grey fine crystalline, medium to thick bedded dolostone, occasional vugs and shale stringers.		5		HQ			100	65								
4		SHALE Dark grey, aphanitic, thin bedded shale, occasional very thin dolostone beds, grading to dolostone, bioturbation at upper contact. Fractured zone between about 3.7 m and 4.7 m.		6		HQ			100	82								
5				7		HQ			100	97								
6		Fractured zone between about 5.5 m and 6.2 m. Siliceous below about 6 m.		8		HQ			100	97								
7				9		HQ			100	89								
8																		
9		Fractured zone from about 8.9 m to 9.8 m. Large vug filled with well formed gypsum crystals at about 9.1 m. Shale stringer at about 9.2 m.																
10.0		Borehole terminated at 10.03 m in siliceous dolostone.																

BOREHOLE LOG	PROJECT: 97-557 TARO	BOREHOLE: 66-II	1 of 1
HYDROGEOLOGICAL INVESTIGATIONS Stoney Creek, Ontario FOR: TARO AGGREGATES LTD.		DATE: 11 December 1997 GEOLOGIST: YS ELEVATION: 189.95 m ASL	

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE						N VALUE				WATER CONTENT (%)				
				NUMBER	INTERVAL	TYPE	N VALUE	% WATER	% REC	% RQD	15	30	45	60	10	20	30	40
0.6		TOPSOIL Black silty topsoil, some sand, trace gravel, some rootlets and woody pieces, very soft, moist.																
1		CLAYEY SILT Brown mottled rust brown clayey silt with trace sand and gravel, mottled black on fracture surfaces, soft,																
1.9		APL.																
2.1		GOAT ISLAND DOLOSTONE Grey fine crystalline, medium to thick bedded dolostone, occasional vugs and shale stringers.																
3.0		SHALE Dark grey, aphanitic, thin bedded shale, occasional very thin dolostone beds, grading to dolostone, bioturbation at upper contact. Fractured zone between about 3.7 m and 4.7 m.																
4		Fractured zone between about 5.5 m and 6.2 m.																
5		Silaceous below about 6 m.																
6																		
6.8		Borehole terminated at 6.78 m in dolostone. NOTE: Stratigraphy inferred from adjacent borehole 66-I. Borehole logged to confirm contacts and for monitor placement.																

BOREHOLE LOG	PROJECT: 97-557 TARO	BOREHOLE: 66-III	1 of 1
HYDROGEOLOGICAL INVESTIGATIONS Stoney Creek, Ontario FOR: TARO AGGREGATES LTD.		DATE: 11 December 1997 GEOLOGIST YS ELEVATION 189.97 m ASL	

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE						N VALUE				WATER CONTENT (%)					
				NUMBER	INTERVAL	TYPE	N VALUE	% WATER	% REC	% RQD									
											15	30	45	60	10	20	30	40	
0.6		TOPSOIL Black silty topsoil, some sand, trace gravel, some rootlets and woody pieces, very soft, moist.																	
1		CLAYEY SILT Brown mottled rust brown clayey silt with trace sand and gravel, mottled black on fracture surfaces, soft,																	
1.9		APL.																	
2.1		GOAT ISLAND DOLOSTONE Grey fine crystalline, medium to thick bedded dolostone, occasional vugs and shale stringers.																	
3.0		SHALE Dark grey, aphanitic, thin bedded shale, occasional very thin dolostone beds, grading to dolostone, bioturbation at upper contact.																	
4		Fractured zone between about 3.7 m and 4.7 m.																	
4.7		Borehole terminated at 4.70 m in dolostone. NOTE: Stratigraphy inferred from adjacent borehole 66-I. Borehole logged to confirm contacts and for monitor placement.																	

BOREHOLE LOG	PROJECT: 97-557 TARO	BOREHOLE: 67-I	1 of 2
HYDROGEOLOGICAL INVESTIGATIONS Stoney Creek, Ontario FOR: TARO AGGREGATES LTD.		DATE: 3 December 1997 GEOLOGIST YS ELEVATION 194.59 m ASL	

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE							N VALUE				WATER CONTENT (%)				
				NUMBER	INTERVAL	TYPE	N VALUE	% WATER	% REC	% RQD									
											15	30	45	60	10	20	30	40	
0.6		<u>TOPSOIL</u> Brown sandy silt with some clay and rootlets, moist.																	
1		<u>SANDY SILT TILL</u> Brown to brownish grey sandy silt, some clay, trace gravel, some fracturing, moist, dense to very dense.																	
2																			
3																			
4																			
5.2																			
6		<u>GOAT ISLAND DOLOSTONE</u> Brownish grey to grey, fine crystalline, thin to medium bedded dolostone, moderate shale content, occasional shale stringers and vugs infilled with calcite.																	
6.8																			
7		<u>SHALE</u> Dark brownish grey, aphanitic to very fine crystalline, thin bedded shale, locally interbedded to interbedded with dolostone, trace fossils.																	
7.6																			
8		<u>GOAT ISLAND DOLOSTONE</u> Brownish grey to grey, fine crystalline, thin to medium bedded dolostone, moderate shale content, occasional shale stringers and vugs infilled with calcite.																	
9																			
10		Numerous fractures from about 8.0 to 9.1 m. -Open fracture between about 9.1 and 9.2 m.																	
11																			
12																			
13		-Open fractures below about 13.2 m.																	
13.9																			
14		<u>ANCASTER CHERT BEDS</u> Light brownish grey, fine crystalline, medium bedded siliceous dolostone with numerous chert nodules and																	

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BOREHOLE LOG	PROJECT: 97-557 TARO	BOREHOLE: 67-I	2 of 2
HYDROGEOLOGICAL INVESTIGATIONS Stoney Creek, Ontario FOR: TARO AGGREGATES LTD.		DATE: 3 December 1997 GEOLOGIST YS ELEVATION 194.59 m ASL	

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE					N VALUE				WATER CONTENT (%)					
				NUMBER	INTERVAL	TYPE	N VALUE	% WATER	% REC	% RQD	15	30	45	60	10	20	30	40
15.3		beds, rare shale stringers. Borehole terminated at 15.27 m in siliceous dolostone.																

BOREHOLE LOG	PROJECT: 97-557 TARO	BOREHOLE: 67-II	1 of 1
HYDROGEOLOGICAL INVESTIGATIONS Stoney Creek, Ontario FOR: TARO AGGREGATES LTD.		DATE: 10 December 1997 GEOLOGIST YS ELEVATION 194.66 m ASL	

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE						N VALUE				WATER CONTENT (%)				
				NUMBER	INTERVAL	TYPE	N VALUE	% WATER	% REC	% RQD	15	30	45	60	10	20	30	40
0.6		<u>TOPSOIL</u> Brown sandy silt with some clay and rootlets, moist.																
1		<u>SANDY SILT TILL</u> Brown to brownish grey sandy silt, some clay, trace gravel, some fracturing, moist, dense to very dense.																
2																		
3																		
4																		
5.2																		
5		<u>GOAT ISLAND DOLOSTONE</u> Brownish grey to grey, fine crystalline, thin to medium bedded dolostone, moderate shale content, occasional shale stringers and vugs infilled with calcite.																
6																		
6.8																		
7		<u>SHALE</u> Dark brownish grey, aphanitic to very fine crystalline, thin bedded shale, locally interlaminated to interbedded with dolostone, trace fossils.																
7.6																		
8		<u>GOAT ISLAND DOLOSTONE</u> Brownish grey to grey, fine crystalline, thin to medium bedded dolostone, moderate shale content, occasional shale stringers and vugs infilled with calcite.																
8																		
9.1		Numerous fractures from about 8.0 to 9.1 m. Borehole terminated at 9.1 m in dolostone. NOTE: Stratigraphy inferred from adjacent borehole 67-I. Borehole logged to confirm contacts and for monitor placement.																
9																		

BOREHOLE LOG	PROJECT: 97-557 TARO	BOREHOLE: 67-III 1 of 1
HYDROGEOLOGICAL INVESTIGATIONS Stoney Creek, Ontario FOR: TARO AGGREGATES LTD.	DATE: 10 December 1997 GEOLOGIST: YS ELEVATION: 194.65 m ASL	

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE						N VALUE				WATER CONTENT (%)					
				NUMBER	INTERVAL	TYPE	N VALUE	% WATER	% REC	% RQD									
											15	30	45	60	10	20	30	40	
0.6		<u>TOPSOIL</u> Brown sandy silt with some clay and rootlets, moist.																	
1		<u>SANDY SILT TILL</u> Brown to brownish grey sandy silt, some clay, trace gravel, some fracturing, moist, dense to very dense.																	
2																			
3																			
4																			
5.2																			
6		<u>GOAT ISLAND DOLOSTONE</u> Brownish grey to grey, fine crystalline, thin to medium bedded dolostone, moderate shale content, occasional shale stringers and vugs infilled with calcite.																	
6.9		Borehole terminated at 6.86 m in dolostone. NOTE: Stratigraphy inferred from adjacent borehole 67-I. Borehole logged to confirm contacts and for monitor placement.																	

BOREHOLE LOG	PROJECT: 97-557 TARO	BOREHOLE: 68-1	1 of 2
HYDROGEOLOGICAL INVESTIGATIONS Stoney Creek, Ontario FOR: TARO AGGREGATES LTD.		DATE: 5 December 1997 GEOLOGIST: PW ELEVATION: 199.15 m ASL	

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE						N VALUE				WATER CONTENT (%)				
				NUMBER	INTERVAL	TYPE	N VALUE	% WATER	% REC	% RQD	15	30	45	60	10	20	30	40
0.3		<u>TOPSOIL</u>		1	SS	30/0.08m		67										
0.8		Black silty topsoil with woody pieces and rootlets, moist.		2	HQ			73	0									
1		<u>SILTY SAND</u> Brown silty sand with gravel and cobbles, dry.		3	HQ			100	0									
2		<u>ERAMOSA DOLOSTONE</u> Brown to brownish-grey fine crystalline, thin to medium bedded dolostone, occasional shale stringers and fossiliferous sections.		4	HQ			100	7									
3		Vuggy section from about 3.6 m to 3.7 m.		5	HQ			100	35									
4		Shale content increasing below about 4.3 m.		6	HQ			100	33									
5		Thin clay seam at about 5 m. Thin clay seam at about 5.2 m.		7	HQ			100	47									
5.5		<u>VINEMOUNT SHALE</u> Dark grey aphanitic, thin bedded shale, occasionally interbedded with dolostone, occasional fossiliferous layers.		8	HQ			100	78									
6		Grey dolostone bed from about 6.4 m to 7.0 m, interbedded with shale below about 6.6 m.		9	HQ			100	73									
6.4		Clay seam from about 7.3 m to 7.4 m.		10	HQ			100	93									
7		Dolostone bed between about 8.7 m to 8.8 m.		11	HQ			100	72									
8		Bioturbation from about 9.5 m to 9.6 m.		12	HQ			100	75									
9		<u>GOAT ISLAND DOLOSTONE</u> Grey fine crystalline, medium bedded dolostone, some shale stringers, occasional fossils, occasional calcite filled nodules.																
10.7		Fractured zone between about 11.2 m and 11.5 m. 0.03 m thick gypsum seam at about 11.3 m.																
11		<u>SHALE</u> Dark brownish-grey aphanitic, thin bedded shale, bioturbation at upper contact.																
11.8		Fractured zone between about 12.8 m and 13.6 m.																
12.4		Silicaceous below about 14.2 m. Numerous thin clay seams observed below about 14.5																

BOREHOLE LOG	PROJECT: 97-557 TARO	BOREHOLE: 68-I	2 of 2
HYDROGEOLOGICAL INVESTIGATIONS Stoney Creek, Ontario FOR: TARO AGGREGATES LTD.		DATE: 5 December 1997 GEOLOGIST PW ELEVATION 199.15 m ASL	

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE					N VALUE				WATER CONTENT (%)					
				NUMBER	INTERVAL	TYPE	N VALUE	% WATER	% REC	% RQD	15	30	45	60	10	20	30	40
16		m.		13		HQ				88	41							
				14		HQ				100	95							
17				15		HQ				85	72							
18.2				16		HQ				100	73							
19		ANCASTER CHERT BEDS Light brownish-grey fine crystalline, thick bedded siliceous dolostone, numerous chert nodules.		17		HQ				100	100							
20		Trace shale and gypsum at about 20.4 m.																
20.9		Borehole terminated at 20.88 m in siliceous dolostone.																

BOREHOLE LOG	PROJECT: 97-557 TARO	BOREHOLE: 68-II 1 of 2
HYDROGEOLOGICAL INVESTIGATIONS Stoney Creek, Ontario FOR: TARO AGGREGATES LTD.		DATE: 16 December 1997 GEOLOGIST YS ELEVATION 199.23 m ASL

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE							N VALUE				WATER CONTENT (%)				
				NUMBER	INTERVAL	TYPE	N VALUE	% WATER	% REC	% RQD	15	30	45	60	10	20	30	40	
0.3		TOPSOIL																	
0.8		Black silty topsoil with woody pieces and rootlets, moist.																	
1		SILTY SAND Brown silty sand with gravel and cobbles, dry.																	
2		ERAMOSA DOLOSTONE Brown to brownish-grey fine crystalline, thin to medium bedded dolostone, occasional shale stringers and fossiliferous sections.																	
3																			
4		Vuggy section from about 3.6 m to 3.7 m. Shale content increasing below about 4.3 m.																	
5		Thin clay seam at about 5 m.																	
5.5		Thin clay seam at about 5.2 m.																	
6		VINEMOUNT SHALE Dark grey aphanitic, thin bedded shale, occasionally interbedded with dolostone, occasional fossiliferous layers.																	
6.4																			
7.0		Grey dolostone bed from about 6.4 m to 7.0 m, interbedded with shale below about 6.6 m.																	
8		Clay seam from about 7.3 m to 7.4 m.																	
9		Dolostone bed between about 8.7 m to 8.8 m.																	
10		Bioturbation from about 9.5 m to 9.6 m.																	
10.7																			
11		GOAT ISLAND DOLOSTONE Grey fine crystalline, medium bedded dolostone, some shale stringers, occasional fossils, occasional calcite filled nodules.																	
11.8																			
12		Fractured zone between about 11.2 m and 11.5 m.																	
12.4		0.03 m thick gypsum seam at about 11.3 m.																	
13		SHALE Dark brownish-grey aphanitic, thin bedded shale, bioturbation at upper contact.																	
14.0		Fractured zone between about 12.8 m and 13.6 m.																	
14		Borehole terminated at 14.02 m in dolostone. NOTE: Stratigraphy inferred from adjacent borehole 68-1. Borehole logged to confirm contacts and for																	

BOREHOLE LOG	PROJECT: 97-557 TARO	BOREHOLE: 68-II 2 of 2
HYDROGEOLOGICAL INVESTIGATIONS Stoney Creek, Ontario FOR: TARO AGGREGATES LTD.	DATE: 16 December 1997 GEOLOGIST YS ELEVATION 199.23 m ASL	

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE					N VALUE				WATER CONTENT (%)					
				NUMBER	INTERVAL	TYPE	N VALUE	% WATER	% REC	% RQD	15	30	45	60	10	20	30	40
		monitor placement.																

BOREHOLE LOG	PROJECT: 97-557 TARO	BOREHOLE: 68-III 1 of 1
HYDROGEOLOGICAL INVESTIGATIONS Stoney Creek, Ontario FOR: TARO AGGREGATES LTD.	DATE: 16 December 1997 GEOLOGIST YS ELEVATION 199.18 m ASL	

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE						N VALUE				WATER CONTENT (%)					
				NUMBER	INTERVAL	TYPE	N VALUE	% WATER	% REC	% RQD									
											15	30	45	60	10	20	30	40	
0.2		<u>TOPSOIL</u> Black silty topsoil with woody pieces and rootlets, moist.																	
0.8		<u>SILTY SAND</u> Brown silty sand with gravel and cobbles, dry.																	
1		<u>ERAMOSA DOLOSTONE</u> Brown to brownish-grey fine crystalline, thin to medium bedded dolostone, occasional shale stringers and fossiliferous sections.																	
2																			
3																			
4		Vuggy section from about 3.6 m to 3.7 m. Shale content increasing below about 4.3 m.																	
5		Thin clay seam at about 5 m. Thin clay seam at about 5.2 m.																	
5.5		<u>VINEMOUNT SHALE</u> Dark grey aphanitic, thin bedded shale, occasionally interbedded with dolostone, occasional fossiliferous layers.																	
6																			
6.4																			
7		Grey dolostone bed from about 6.4 m to 7.0 m, interbedded with shale below about 6.6 m. Clay seam from about 7.3 m to 7.4 m.																	
7.0																			
8																			
8																			
9		Dolostone bed between about 8.7 m to 8.8 m. Bioturbation from about 9.5 m to 9.6 m.																	
10																			
10.7																			
11		<u>GOAT ISLAND DOLOSTONE</u> Grey fine crystalline, medium bedded dolostone, some shale stringers, occasional fossils, occasional calcite filled nodules.																	
11.8																			
11.9		Fractured zone between about 11.2 m and 11.5 m. 0.03 m thick gypsum seam about 11.3 m. <u>SHALE</u> Dark brownish-grey aphanitic, thin bedded shale, bioturbation at upper contact. Borehole terminated at 11.89 m in shale. NOTE: Stratigraphy inferred from adjacent borehole 68-I. Borehole logged to confirm contacts and for monitor placement.																	

BOREHOLE LOG	PROJECT: 97-557 TARO	BOREHOLE: 68-IV 1 of 1
HYDROGEOLOGICAL INVESTIGATIONS Stoney Creek, Ontario FOR: TARO AGGREGATES LTD.		DATE: 17 December 1997 GEOLOGIST YS ELEVATION 199.17 m ASL

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE				N VALUE				WATER CONTENT (%)								
				NUMBER	INTERVAL	TYPE	N VALUE	% WATER	% REC	% RQD										
											15	30	45	60	10	20	30	40		
0.2		<u>TOPSOIL</u>																		
0.8		Black silty topsoil with woody pieces and rootlets, moist.																		
1		<u>SILTY SAND</u>																		
		Brown silty sand with gravel and cobbles, dry.																		
2		<u>ERAMOSA DOLOSTONE</u>																		
		Brown to brownish-grey fine crystalline, thin to medium bedded dolostone, occasional shale stringers and fossiliferous sections.																		
3																				
4		Vuggy section from about 3.6 m to 3.7 m.																		
5		Shale content increasing below about 4.3 m.																		
5.5		Thin clay seam at about 5 m. Thin clay seam at about 5.2 m.																		
6		<u>VINEMOUNT SHALE</u>																		
6.4		Dark grey aphanitic, thin bedded shale, occasionally interbedded with dolostone, occasional fossiliferous layers.																		
7		Grey dolostone bed from about 6.4 m to 7.0 m, interbedded with shale below about 6.6 m.																		
7.5		Clay seam from about 7.3 m to 7.4 m. Borehole terminated at 7.54 m in dolostone. NOTE: Stratigraphy inferred from adjacent borehole 68-I. Borehole logged to confirm contacts and for monitor placement.																		

BOREHOLE LOG	PROJECT: 97-557 TARO	BOREHOLE: 68-V	1 of 1
HYDROGEOLOGICAL INVESTIGATIONS Stoney Creek, Ontario FOR: TARO AGGREGATES LTD.		DATE: 17 December 1997 GEOLOGIST YS ELEVATION 199.19 m ASL	

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE					N VALUE				WATER CONTENT (%)						
				NUMBER	INTERVAL	TYPE	N VALUE	% WATER	% REC	% RQD									
											15	30	45	60	10	20	30	40	
0.2		<u>TOPSOIL</u>																	
0.8		Black silty topsoil with woody pieces and rootlets, moist.																	
1		<u>SILTY SAND</u> Brown silty sand with gravel and cobbles, dry.																	
2		<u>ERAMOSA DOLOSTONE</u> Brown to brownish-grey fine crystalline, thin to medium bedded dolostone, occasional shale stringers and fossiliferous sections.																	
3																			
4		Vuggy section from about 3.6 m to 3.7 m. Shale content increasing below about 4.3 m.																	
5		Thin clay seam at about 5 m. Thin clay seam at about 5.2 m.																	
5.5		Borehole terminated at 5.46 m in dolostone. NOTE: Stratigraphy inferred from adjacent borehole 68-I. Borehole logged to confirm contacts and for monitor placement.																	

BOREHOLE LOG	PROJECT: 97-557 TARO	BOREHOLE: 69-1	1 of 3
HYDROGEOLOGICAL INVESTIGATIONS Stoney Creek, Ontario FOR: TARO AGGREGATES LTD.		DATE: 4 December 1997 GEOLOGIST PW ELEVATION 206.95 m ASL	

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE					N VALUE				WATER CONTENT (%)					
				NUMBER	INTERVAL	TYPE	N VALUE	% WATER	% REC	% RQD								
											15	30	45	60	10	20	30	40
0.8		TOPSOIL Dark brown clayey silt topsoil with gravel and rootlets, very soft, moist.		1	SS	5		25										
1		CLAYEY SILT Brown mottled grey clayey silt with trace sand and rare gravel, very soft to soft, DTPL.		2	SS	22		83										
2		Fractured below about 2 m. Occasional limonite (yellow), iron (rust) and manganese (black) staining along fracture surfaces.		3	SS	19		100										
3		Occasional thinly laminated sections below about 3 m.		4	SS	25		100										
4		Becoming dark grey below about 3.9 m. Rare fine gravel, no fractures, WTPL.		5	SS	15		100										
5		Speckled dark red throughout sample below about 4.5 m.		6	SS	6		100										
6		Becoming APL below about 6.1 m. Some medium gravel.		7	SS	7		100										
6.2				8	SS	16		71										
7		ERAMOSA DOLOSTONE Brownish-grey fine crystalline, thin to medium bedded dolostone, slightly weathered to about 12.0 m, occasional shale stringers and vugs, rare fossils.		9	SS	>50		100	0									
8				10	HQ	0.05m		81	82									
9				11	HQ			100										
10		Becoming brownish-grey to grey below about 9 m. Occasional shale interbeds, some vuggy sections with calcite infilling.		12	HQ			100	67									
11				13	HQ			100	77									
12				14	HQ			100	68									
13				15	HQ			100	95									
14		Gypsum seam at 13.4 m.		16	HQ			97	88									

BOREHOLE LOG	PROJECT: 97-557 TARO	BOREHOLE: 69-I	2 of 3
HYDROGEOLOGICAL INVESTIGATIONS Stoney Creek, Ontario FOR: TARO AGGREGATES LTD.		DATE: 4 December 1997 GEOLOGIST PW ELEVATION 206.95 m ASL	

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE					N VALUE				WATER CONTENT (%)						
				NUMBER	INTERVAL	TYPE	N VALUE	% WATER	% REC	% RQD									
											15	30	45	60	10	20	30	40	
		Increasingly shaly below about 14.9 m.																	
16		Thin calcite seams (less than 0.08 m thick) at about 15.8 m, 16.9 m and 17.0 m.		17	HQ				100	100									
17		Fossiliferous layer at about 17.1 m.		18	HQ				98	98									
18.3				19	HQ				100	72									
19.2		<u>VINEMOUNT SHALE</u> Grey thin bedded, aphanitic shale, occasionally interbedded with dolostone, occasional fossil-rich layers.		20	HQ				100	100									
20.0		Grey dolostone bed from about 19.2 m to 20.0 m.		21	HQ														
21				22	HQ				97	97									
22				23	HQ				100	100									
23.6				24	HQ				100	100									
24		<u>GOAT ISLAND DOLOSTONE</u> Grey fine crystalline, thick bedded dolostone, occasional shaly stringers.		25	HQ				100	93									
24.5		0.02 m thick gypsum seam at about 24.1 m.		26	HQ														
25.0		<u>SHALE</u> Dark grey, aphanitic, thin bedded shale, bioturbation at upper contact.		27	HQ				97	94									
26		Calcite/gypsum seams at about 25.5 m and 26.0 m. Occasional calcite/gypsum nodules.		28	HQ				100	100									
27		Fractured zone between about 25.9 m and 26.5 m. Siliceous below about 26.8 m. Occasional fossiliferous sections below about 27 m.		29	HQ				100	97									
28																			
29																			

BOREHOLE LOG	PROJECT: 97-557 TARO	BOREHOLE: 69-I	3 of 3
HYDROGEOLOGICAL INVESTIGATIONS Stoney Creek, Ontario FOR: TARO AGGREGATES LTD.		DATE: 4 December 1997 GEOLOGIST PW ELEVATION 206.95 m ASL	

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE					N VALUE				WATER CONTENT (%)						
				NUMBER	INTERVAL	TYPE	N VALUE	% WATER	% REC	% RQD									
											15	30	45	60	10	20	30	40	
30.4		Series of thin gypsum seams between about 30 m and 30.4 m.																	
31		<u>ANCASTER CHERT BEDS</u> Light brown to brownish-grey fine crystalline, thick bedded siliceous dolostone with large, distinct cherty nodules.		27	HQ			100	100										
32		Gypsum seam/traces at about 31 m and 31.6 m Shale layer at about 31.8 m.																	
33		Gypsum and shale trace at about 32.7 m.		28	HQ			100	86										
33.3		Borehole terminated at 33.3 m in siliceous dolostone.																	

BOREHOLE LOG	PROJECT: 97-557 TARO	BOREHOLE: 69-II	1 of 2
HYDROGEOLOGICAL INVESTIGATIONS Stoney Creek, Ontario FOR: TARO AGGREGATES LTD.		DATE: 9 December 1997 GEOLOGIST PW ELEVATION 206.98 m ASL	

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE						N VALUE				WATER CONTENT (%)					
				NUMBER	INTERVAL	TYPE	N VALUE	% WATER	% REC	% RQD									
											15	30	45	60	10	20	30	40	
0.8		<u>TOPSOIL</u> Dark brown clayey silt topsoil with gravel and rootlets, very soft, moist.																	
1		<u>CLAYEY SILT</u> Brown mottled grey clayey silt with trace sand and rare gravel, very soft to soft, DTPL.																	
2		Fractured below about 2 m. Occasional limonite (yellow), iron (rust) and manganese (black) staining along fracture surfaces.																	
3		Occasional thinly laminated sections below about 3 m.																	
4		Becoming dark grey below about 3.9 m. Rare fine gravel, no fractures, WTPL.																	
5		Speckled dark red throughout sample below about 4.5 m.																	
6.2		Becoming APL below about 6.1 m. Some medium gravel.																	
7		<u>ERAMOSIA DOLOSTONE</u> Brownish-grey fine crystalline, thin to medium bedded dolostone, slightly weathered to about 12.0 m, occasional shale stringers and vugs, rare fossils.																	
8																			
9		Becoming brownish-grey to grey below about 9 m. Occasional shale interbeds, some vuggy sections with calcite infilling.																	
10																			
11																			
12																			
13		Gypsum seam at 13.4 m.																	
14																			

BOREHOLE LOG	PROJECT: 97-557 TARO	BOREHOLE: 69-II	2 of 2
HYDROGEOLOGICAL INVESTIGATIONS Stoney Creek, Ontario FOR: TARO AGGREGATES LTD.		DATE: 9 December 1997 GEOLOGIST: PW ELEVATION: 206.98 m ASL	

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE						N VALUE				WATER CONTENT (%)				
				NUMBER	INTERVAL	TYPE	N VALUE	% WATER	% REC	% RQD	15	30	45	60	10	20	30	40
		Increasingly shaly below about 14.9 m.																
16		Thin calcite seams (less than 0.08 m thick) at about 15.8 m, 16.9 m and 17.0 m.																
17		Fossiliferous layer at about 17.1 m.																
18.3																		
		VINEMOUNT SHALE																
19.2		Grey thin bedded, aphanitic shale, occasionally interbedded with dolostone, occasional fossil-rich layers.																
20.0		Grey dolostone bed from about 19.2 m to 20.0 m.																
21																		
22																		
23																		
23.6																		
		GOAT ISLAND DOLOSTONE																
24		Grey fine crystalline, thick bedded dolostone, occasional shaley stringers.																
24.5		0.02 m thick gypsum seam at about 24.1 m.																
25.0		SHALE																
		Dark grey, aphanitic, thin bedded shale, bioturbation at upper contact.																
26		Calcite/gypsum seams at about 25.5 m and 26.0 m. Occasional calcite/gypsum nodules.																
		Fractured zone between about 25.9 m and 26.5 m.																
27		Silaceous below about 26.8 m. Occasional fossiliferous sections below about 27 m.																
27.9		Borehole terminated at 27.91 m in dolostone. NOTE: Stratigraphy inferred from adjacent borehole 69-I. Borehole logged to confirm contacts and for monitor placement.																

BOREHOLE LOG	PROJECT: 97-557 TARO	BOREHOLE: 69-III	1 of 2
HYDROGEOLOGICAL INVESTIGATIONS Stony Creek, Ontario FOR: TARO AGGREGATES LTD.		DATE: 10 December 1997 GEOLOGIST: PW ELEVATION: 206.97 m ASL	

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE					N VALUE				WATER CONTENT (%)				
				NUMBER	INTERVAL TYPE	N VALUE	% WATER	% REC	% RQD	15	30	45	60	10	20	30	40
0.8		<u>TOPSOIL</u> Dark brown clayey silt topsoil with gravel and rootlets, very soft, moist.															
1		<u>CLAYEY SILT</u> Brown mottled grey clayey silt with trace sand and rare gravel, very soft to soft, DTPL.															
2		Fractured below about 2 m. Occasional limonite (yellow), iron (rust) and manganese (black) staining along fracture surfaces.															
3		Occasional thinly laminated sections below about 3 m.															
4		Becoming dark grey below about 3.9 m. Rare fine gravel, no fractures, WTPL.															
5		Speckled dark red throughout sample below about 4.5 m.															
6.2		Becoming APL below about 6.1 m. Some medium gravel.															
7		<u>ERAMOSA DOLOSTONE</u> Brownish-grey fine crystalline, thin to medium bedded dolostone, slightly weathered to about 12.0 m, occasional shale stringers and vugs. rare fossils.															
8																	
9		Becoming brownish-grey to grey below about 9 m. Occasional shale interbeds, some vuggy sections with calcite infilling.															
10																	
11																	
12																	
13																	
14		Gypsum seam at 13.4 m.															