BOREHOLE LOGPROJECT: 92-372BOREHOLE: 37-II 1 of 1HYDROGEOLOGICAL INVESTIGATIONDATE: 11 February 1992TARO QUARRIES - STONEY CREEKGEOLOGIST SMAFOR: TARO AGGREGATES LTD.ELEVATION 192.8 m ASL

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DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	NUMBER	INTERUAL	ТҮРЕ	N VALUE	% WATER	% REC	% RQD	 (%)	ER	\perp	 RQ (% 50 7)	0
0.4 1.2 1 - 2 - 4.9 5 - 6.1 6 - 6.3	\$ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	VINEMOUNT SHALE Dark brownish grey, aphanitic to very fine crystalline, thin to medium bedded shale, locally laminated with dolostone. -Dolostone bed from about 0.4 to 1.2 m, moderate shale content locally. -Dolostone content increasing below about 3.8 m. GOAT ISLAND DOLOSTONE Brownish grey to grey, fine crystalline, thin to medium bedded dolostone, moderate shale content, occasional shale stringers and calcite nodules, gypsum vinfilled seams locally, trace fossils. SHALE Dark brownish grey, aphanitic to very fine crystalline, thick bedded shale interlaminated with dolostone. Borehole terminated at 6.30 m in shale. NOTE: Borehole drilled using an Air Track Precussion Drill. Stratigraphy inferred from adjacent borehole 37-1.															
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BOREHOLE LOGPROJECT:92-372BOREHOLE:37-III1 of 1HYDROGEOLOGICAL INVESTIGATIONDATE:11 February 1992TARO QUARRIES - STONEY CREEKGEOLOGISTSMAFOR:TARO AGGREGATES LTD.ELEVATION192.8 m ASL

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DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS NUMBER	NUMBER	INTERUAL	TYPE	N VALUE	% WATER	% REC	% RQD	(% 5 50	6)			RQI (%)	1
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2 -		-Dolostone bed from about 0.4 to 1.2 m, moderate shale content locally.	****************							-						
3.7		Borehole terminated at 3.65 m in shale.								<u>-</u>	-					
		NOTE: Borehole drilled using an Air Track Precussion Drill. Stratigraphy inferred from adjacent borehole 37-I.														

BOREHOLE LOGPROJECT:92-372BOREHOLE:38-I1 of 1HYDROGEOLOGICAL INVESTIGATIONTARO QUARRIES - STONEY CREEKGEOLOGISTTLCFOR: TARO AGGREGATES LTD.

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crystalline, thin to medium bedded shale, loccasionally interlaminated with dolostone, bioturbation at upper contact.					5		но			100	93			•		-	A
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BOREHOLE LOGPROJECT:92-372BOREHOLE:38-II1 of 1HYDROGEOLOGICAL INVESTIGATIONDATE:10 February 1992TARO QUARRIES - STONEY CREEKGEOLOGISTSMAFOR:TARO AGGREGATES LTD.ELEVATION192.4 m ASL

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DEPLH CARP	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	NUMBER	INTERUAL	TYPE	N UPLUE W	% WATER T	% REC	א מפט	 (%	ERY) 	RQ (% 50 7	
0.8 1.4 2	VINEMOUNT SHALE Dark brownish grey, aphanitic to very fine crystalline, thin to medium bedded shale, occasionally interlaminated to interbedded with dolostone, moderate dolostone content and fossiliferous locally. -Dolostone bed from about 0.8 to 1.4 m. -Dolostone bed from about 0.8 to 1.4 m. -Dolostone content increasing below about 4.7 m. GOAT ISLAND DOLOSTONE Brownish grey to grey, fine crystalline, thin to medium bedded dolostone, moderate shale content, occasional shale stringers, some small calcite infilled vugs, minor occurrences of sphalerite mineralization. SHALE Borehole terminated at 6.10 m in shale. NOTE: Borehole drilled using an Air Track Precussion Drill. Stratigraphy inferred from adjacent borehole 38-1.												

BOREHOLE LOGPROJECT:92-372BOREHOLE:38-III1 of 1HYDROGEOLOGICAL INVESTIGATIONTARO QUARRIES - STONEY CREEKGEOLOGISTSMAFOR: TARO AGGREGATES LTD.

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DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	NUMBER	INTERVAL	TYPE	I VALUE	. WATER	REC	RQD		('	%)			(0	QD %)	
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0.8		VINEMOUNT SHALE Dark brownish grey, aphanitic to very fine crystalline, thin to medium bedded shale, occasionally interlaminated to interbedded with dolostone, moderate dolostone content and fossiliferous locally. -Dolostone bed from about 0.8 to 1.4 m.								-								
3 - 3.6		Borehole terminated at 3.55 m in shale		_						-								
		NOTE: Borehole drilled using an Air Track Precussion Drill. Stratigraphy inferred from adjacent borehole 38-I.																
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BOREHOLE LOG PROJECT: 92-372 BOREHOLE: 39-I 1 of 1

HYDROGEOLOGICAL INVESTIGATION
TARO QUARRIES - STONEY CREEK
FOR: TARO AGGREGATES LTD.

BOREHOLE: 39-I 1 of 1

DATE: 6 February 1992

GEOLOGIST TLC
ELEVATION 191.8 m ASL

	STRATIGRAPHY		_ &	<u> </u>		SAM	IPL.	<u>E</u>	1					
	4		MONITOR DETAILS & NUMBER			<u>.</u>				l				
DEPTH	ច្ច	STRATIGRAPHIC DESCRIPTION	TAP	œ	INTERUA IVOE	VALUE	WATER	١	_	REC	COV	ERY	R	QD
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	က			Z		- z	×	×	×	25	50 7	5 100	25 50	75 100
	===	VINEMOUNT SHALE		1	н	Q		100	46			7	14	
0.8		Dark brownish grey, aphanitic to very fine			N									11
1	7	crystalline, thin to medium bedded shale, occasional			M									
1.4		thin dolostone beds accompanied by bioturbation,			N N				_			1 1		
		trace fossils.			N.									
		-Dolostone bed from about 0.8 to 1.4 m.		2	Н	ર		100	98		1 1	.		1 1
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4.7	==				W		1	100	07			•		4
5 -		GOAT ISLAND DOLOSTONE		- 1	Н	ا3		100	97					
		Brownish grey to grey, fine crystalline, thin to			W						1 1			
		medium bedded dolostone, moderate shale content,			W									İ
6.0		occasional shale stringers, locally interlaminated with		_	M									
	==3	shale. 1-Occasional gypsum infilled vugs to about 6 m.		5	M							• 1		
6.8	==3	·		5	Н	الح		99	89					
7 -		SHALE Dark brownish grey, aphanitic to very fine			W									
, i		crystalline, medium bedded shale, occasional			W									
[dolostone laminae, bioturbation at upper contact.			Ŋ								1 1	
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		Borehole terminated at 12.33 m in dolostone.							ļ					
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BOREHOLE LOG	PROJECT: 92-372	BOREHOLE: 39-II 1 of 1
HYDROGEOLOGICAL INVESTIGAT	ION	DATE: 11 February 1992
TARO QUARRIES - STONEY CREE	K	GEOLOGIST SMA
FOR: TARO AGGREGATES LTD.		ELEVATION 191.8 m ASL

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DEPTH THE PER PER PER PER PER PER PER PER PER PE	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	NUMBER	INTERUAL	TYPE	N VALUE	% WATER	% REC	% RQD	RE	(%		25	RQ (% 50 7	
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BOREHOLE LOGPROJECT:92-372BOREHOLE:39-III1 of 1HYDROGEOLOGICAL INVESTIGATIONDATE:11 February 1992TARO QUARRIES - STONEY CREEKGEOLOGISTSMAFOR:TARO AGGREGATES LTD.ELEVATION191.8 m ASL

DEPTH (m) STRATIGRAPHIC DESCRIPTION STRATIGUE DESCRIP	TOR. TA	RO AGGREGATES LTD.						CLE	VA	110	-	191	.0	m A	'OL	
UNIEMOUNT SHALE Dark brownish grey, aphanitic to very fine crystalline, thin to medium bedded shale, occasional thin dolostone beds accompanied by bioturbation, trace fossilsDolostone bed from about 0.8 to 1.4 m. Borehole terminated at 4.30 m in shale. NOTE: Borehole drilled using an Air Track Precussion Drill. Stratigraphy inferred from adjacent borehole 39-I.	Ϋ́					SA	MPL	E					\top			\Box
UNEMOUNT SHALE Dark brownish grey, aphanitic to very fine crystalline, thin to medium bedded shale, occasional thin dolostone beds accompanied by bioturbation, trace fossilsDolostone bed from about 0.8 to 1.4 m. Borehole terminated at 4.30 m in shale. NOTE: Borehole drilled using an Air Track Precussion Drill. Stratigraphy inferred from adjacent borehole 39-I.	(m) DELLH ARITOR	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS	NUMBER	INTERUAL	בו בו הודים בי		1			(%	o)		(_
	0.8	Dark brownish grey, aphanitic to very fine crystalline, thin to medium bedded shale, occasional thin dolostone beds accompanied by bioturbation, trace fossils. -Dolostone bed from about 0.8 to 1.4 m. Borehole terminated at 4.30 m in shale. NOTE: Borehole drilled using an Air Track Precussion Drill. Stratigraphy inferred from adjacent borehole 39-I.		Z					-							

BOREHOLE LOGPROJECT: 92-372BOREHOLE: 40-I 1 of 1HYDROGEOLOGICAL INVESTIGATIONDATE: 10 February 1992TARO QUARRIES - STONEY CREEKGEOLOGIST TLCFOR: TARO AGGREGATES LTD.ELEVATION 193.6 m ASL

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DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	NUMBER	INTERUAL	туре	UALUE	WATER	REC	RQD		(%)			(%	QD 6)	
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0.9	*	ROAD BASE Brown gravelly sand.																
1 -	-=-	VINEMOUNT SHALE		- 1		HQ HQ			98	14-				T	-			l
1.7	国	Dark brownish grey, aphanitic to very fine																
1		crystalline, thin to medium bedded shale,		2		HQ			100	88_				•			^	
2.2 2		occasionally interlaminated to interbedded with dolostone, bioturbation associated with dolostone			A													
	듬	beds, minor dolomitic content, trace fossils.			A								ı					
3 -	Ξ	-Dolostone bed from about 1.7 to 2.3 m.			A					_								
, ,		Bolomone sea from about 211 to 212 the			M													
	Ξ			3	M	HQ			100	97				T				
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		-Dolomitic content increasing below about 5.7 m.			Ň								1					
6.0				ŀ	M					-			}					
		GOAT ISLAND DOLOSTONE		_	W	НQ								+	l			
		Brownish grey to grey, fine crystalline, thin to medium bedded dolostone, moderate shale content,		١،	M	нQ			100	100								
7.2 7		occasional shale stringers, some gypsum infilled vugs,		-						-	1					1		1
		minor occurrences of galena and sphalerite													İ			
	==	mineralization.																
8.0	-	SHALE		- 6	N	НQ			100	89	1			Ī			-	
		Dark brownish grey, aphanitic to very fine			N			İ										
		crystalline, medium bedded shale interlaminated with			M						l			- 1				
9		dolostone, bioturbation at upper contact.		ŀ	M						1							
		-Becoming massive bedded below about 9.4 m.		7	. 1	HQ			98	92	l			•	ı		_ ▲	1
				·	N													
10 -				Γ						-								
					Ä						İ							
			*********		Ä	НQ								•			.	↓ ¹
11	1-			8		HQ		į	100	100								
			1 ‡												1			
12			‡		N				İ									
12.2 12	H	D. 1.1.4. 1.4.10.00		╂—	100	<u> </u>	-	\vdash	 		\vdash	+	-	-	+-	++	+	+
		Borehole terminated at 12.20 m in dolostone.									1							
1																		1
					1		1											
1																		
L	1			1	L	1		1	1				L					<u>ب</u>

BOREHOLE LOGPROJECT:92-372BOREHOLE:40-II1 of 1HYDROGEOLOGICAL INVESTIGATIONDATE:11 February 1992TARO QUARRIES - STONEY CREEKGEOLOGISTSMAFOR:TARO AGGREGATES LTD.ELEVATION193.6 m ASL

	≻			Τ		S	AM	PLI	E		Π				Ť				
DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS NUMBER	NUMBER	INTERUAL		N VALUE	% WATER	% REC	% RQD	_	((%)	ER		-1	RQ (%		
	-	ROAD BASE	Boird Head	-	H					<u> </u>	 			1	+	<u> </u>	T .		Ή
0.9	* *	Brown gravelly sand.																	
1 1		VINEMOUNT SHALE		ŀ	$\ \ $					-					-				1
1.7	==	Dark brownish grey, aphanitic to very fine																	
2.2 2		crystalline, thin to medium bedded shale, occasionally interlaminated to interbedded with			Ш									ł					1
2.2 2	4	dolostone, bioturbation associated with dolostone		-	П					•				Ì					
		beds, minor dolomitic content, trace fossils.			П										1				
3 -	==	-Dolostone bed from about 1.7 to 2.3 m.			Ш														ı
	긐				П										-				- 1
	彐				П											1			
4	긐				Ш					_									
	긐				П														
	긐				Н														1
5 -	==			L	П					_					1				
	긐				П														
	긐	-Dolomitic content increasing below about 5.7 m.		·	П											ŀ			
6.0	==			-	Н					-						I			
}	\mathcal{L}	GOAT ISLAND DOLOSTONE			$\ \ $														١
}		Brownish grey to grey, fine crystalline, thin to	#		П														
7.2 7		medium bedded dolostone, moderate shale content, occasional shale stringers, some gypsum infilled vugs.	****	-	П					-									ı
1		Borehole terminated at 7.19 m in dolostone.	1.1.1.1 -1. 1.1.		Ħ										\top	\top		\dashv	┪
		NOTE: Borehole drilled using an Air Track Precussion Drill. Stratigraphy inferred from adjacent																	
		borehole 40-I.																	
														İ					

Printed: 4 OCT 93

BOREHOLE LOG	PROJECT: 92-372	BOREHOLE: 40-III 1 of 1
HYDROGEOLOGICAL INVESTIGAT	TON	DATE: 11 February 1992
TARO QUARRIES - STONEY CREE	K	GEOLOGIST SMA
FOR: TARO AGGREGATES LTD.		ELEVATION 193.6 m ASL

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(m) DELATH ORAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	NUMBER	INTERUAL	TYPE	VALUE	WATER	REC	RQD		(%)	ERY			QD 6)	
ST			ž	Ħ	í	z	×	×	×	2	5 50	75	100	2	5 50	75 1	100
0.9	ROAD BASE Brown gravelly sand.																
1.7	VINEMOUNT SHALE Dark brownish grey, aphanitic to very fine								•								
2.2 2	crystalline, thin to medium bedded shale, occasionally interlaminated to interbedded with								_								
	dolostone, bioturbation associated with dolostone beds, minor dolomitic content, trace fossils.	<u>.</u>															
3 ====	-Dolostone bed from about 1.7 to 2.3 m.	#							-								
		***************************************							_								
, <u>F</u>		1111111															
5 -		******	_						_		ŀ						
5.6	Borehole terminated at 5.60 m in shale.			H								+	+	H	+	+	-
	NOTE: Borehole drilled using an Air Track Precussion Drill. Stratigraphy inferred from adjacent borehole 40-I.																

BOREHOLE LOGPROJECT:92-372BOREHOLE:41-I1 of 1HYDROGEOLOGICAL INVESTIGATIONDATE:14 February 1992TARO QUARRIES - STONEY CREEKGEOLOGISTTLCFOR:TARO AGGREGATES LTD.ELEVATION191.8 m ASL

	}	T		9	SAM	[PL]	E						ī
DEPTH (m)	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	NUMBER	TYPE	N UALUE	% WATER	% REC	% RQD	 (%)	ERY	(QD %) 75 100	
0.4	TOPSOIL Dark brown silty topsoil, trace clay, rootlets, moist, compact. CLAYEY SILT		2	SS SS	14		52 74	_					T
2 -	Brown clayey silt, trace fine sand, laminated, DTPL to APL, stiff to very stiff. Reworked from about 0.4 to 1.2 m. -Rust staining along laminae planes below about 1.9		3	SS	9 21		100 100	-					
3 -	SANDY SILT TILL Brown fine sandy silt, some clay and fine subangular gravel to coarse sand, moist becoming saturated below about 3.1 m, compact to dense.		5		28		72						
5 -	-Brownish grey with rust stained fractures from about 3.2 to 3.3 mGrey below about 3.3 mTill mixed with weathered dolostone below		7	SS	44		72 5 9	1					
5.5	about 5.3 m. GOAT ISLAND DOLOSTONE Brownish grey to grey, fine crystalline, thin to medium bedded dolostone, moderate shale content,		N.	SS HQ	50/ 0.07n	1	100 100	62					
7	shale stringers and calcite infilled vugs locally, numerous occurrences of sphalerite mineralization.		2				100	80		T			
8			3	НQ			100	9 9					
10 -	-Minor occurrences of chert nodules with sphalerite mineralization below about 9.5 m.		- 1	НQ			100	94		•			
11	ANCASTER CHERT BEDS Light brownish grey, very fine crystalline, medium bedded siliceous dolostone with numerous chert nodules and layers, minor occurrences of sphalerite mineralization associated with the chert.		5	НQ			100	93				A	
12 -	-Large fracture encountered at around 11.8 m, approximately 4 cm thick. Borehole terminated at 12.48 m in a siliceous dolostone with chert.												

BOREHOLE LOGPROJECT:92-372BOREHOLE:41-II1 of 1HYDROGEOLOGICAL INVESTIGATIONDATE:15 February 1992TARO QUARRIES - STONEY CREEKGEOLOGISTSMAFOR:TARO AGGREGATES LTD.ELEVATION191.8 m ASL

DEPTH (m) STRATIGRAPHIC DESCRIPTION TOPSOIL Dark trown silty topsoil, trace clay, rootlets, moist, compact. Charke Silt Brown clayery silt, trace fine sand, laminated, DTPL to A.P., stilt to very stilf. Reworked from about 0.4 to 1.2 m. -Rust staining along laminae planes below about 1.9 m. SANNY SILT TILL Brown clayery silt, trace fine sand, laminated, DTPL to A.P., stilt to very stilf. Reworked from about 0.4 to 1.2 m. -Rust staining along laminae planes below about 3.3 m. -Grey below about 3.3 m. -Grey below about 3.3 m. -Grey below about 3.3 m. -Grey below about 5.3 m. -Grey below about 5.3 m. -Grey below about 5.7 m. Borwning arg to grey, fine crystalline, thin to medium bedded dolostone, moderate shale content, shale stringers and calcite inflied vugs locally, numerous occurrences of sphalerite mineralization. NOTE: Borehole augered directly to 5.56 m, without sampling. Stratigraphy inferred from adjacent borehole 41-1.	TOPSON	(%)	(%)
TOPSOIL Dark brown silty topsoil, trace clay, rootlets, moist, compact. CLAYEY SILT Brown clayery silt, trace fine sand, laminated, DTPL to APL, stiff to very stiff. Reworked from about 0.4 to 1.2 mRust staining along laminae planes below about 1.9 m. SANDY SILT TILL Brown fine sandy silt, some clay and fine subangular gravel to coarse sand, moist becoming saturated below about 3.1 m, compact to denseBrownish grey with rust stained fractures from about 3.2 to 3.3 mTill mixed withh weathered dolostone below about 5.3 m. GOAT ISLAND DOLOSTONE Brownish grey to grey, fine crystalline, thin to medium bedded dolostone, moderate shale content, shale stringers and calcite infilled vugs locally, numerous occurrences of sphalerite mineralization. Borehole terminated at 7.77 m in dolostone. NOTE: Borehole augered directly to 5.56 m, without sampling. Stratigraphy inferred from adjacent	TOPSON		25 50 75 100
Borehole terminated at 7.77 m in dolostone. NOTE: Borehole augered directly to 5.56 m, without sampling. Stratigraphy inferred from adjacent	Dark brown silty topsoil, trace clay, rootlets, moist, compact. CLAYEY SILT Brown clayey silt, trace fine sand, laminated, DTPL to APL, stiff to very stiff. Reworked from about 0.4 to 1.2 m. -Rust staining along laminae planes below about 1.9 m. SANDY SILT TILL Brown fine sandy silt, some clay and fine subangular gravel to coarse sand, moist becoming saturated below about 3.1 m, compact to dense. -Brownish grey with rust stained fractures from about 3.2 to 3.3 m. -Grey below about 3.3 m. -Till mixed withh weathered dolostone below about 5.3 m. GOAT ISLAND DOLOSTONE Brownish grey to grey, fine crystalline, thin to		25 50 75 100
	Borehole terminated at 7.77 m in dolostone. NOTE: Borehole augered directly to 5.56 m, without sampling. Stratigraphy inferred from adjacent		

BOREHOLE LOGPROJECT:92-372BOREHOLE:41-III1 of 1HYDROGEOLOGICAL INVESTIGATIONDATE:15 February 1992TARO QUARRIES - STONEY CREEKGEOLOGISTSMAFOR:TARO AGGREGATES LTD.ELEVATION191.8 m ASL

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DEPTH (m)	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	NUMBER	INTERUAL	TYPE	N VALUE	% WATER	% REC	% RQD	L	((%)				RQI (%))
DEPTH (m) 0.4 1 2 2.7 3 4 5.6	TOPSOIL Dark brown silty topsoil, trace clay, rootlets, moist, compact. CLAYEY SILT Brown clayey silt, trace fine sand, laminated, DTPL to APL, stiff to very stiff. Reworked from about 0.4 to 1.2 m. Rust staining along laminae planes below about 1.9 m. SANDY SILT TILL Brown fine sandy silt, some clay and fine subangular gravel to coarse sand, moist becoming saturated below about 3.1 m, compact to dense. -Brownish grey with rust stained fractures from about 3.2 to 3.3 m. -Grey below about 3.3 m. -Till mixed withh weathered dolostone below about 5.3 m. Borehole terminated at 5.56 m in sandy silt till. NOTE: Borehole augered directly to 5.56 m, without sampling. Stratigraphy inferred from adjacent borehole 41-I.		2		TYPE	N UALUE	% WATER	X REC	X		225 5	0 7	5 100		25 5	(%) FO 75	

BOREHOLE LOG PROJECT: 92-372 BOREHOLE: 42-I 1 of 1 DATE: 11 February 1992 HYDROGEOLOGICAL INVESTIGATION TLC TARO QUARRIES - STONEY CREEK GEOLOGIST ELEVATION 193.6 m ASL FOR: TARO AGGREGATES LTD.

	Σ		n		_	s	AM	PLI	2								
DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	NUMBER	INTERUAL	ш	VALUE	WATER	REC	RQD	RI)V] %)	ERY			QD %)
()	STR		ΣÖď	NOM	H	TYPE	Z	3	2	α. ×	<u> </u>	25 50	_	100	2		75 100
		VINEMOUNT SHALE			Н								Ť	Ť	Ī	Ť	TT
		Dark brownish grey, aphanitic to very fine crystalline, thin to medium bedded shale, occasional												1			
1.2 1 -		dolostone beds and laminea, trace fossils.		- 1	4	HQ			100	11-			1	Ī	^		
1.6		-Dolostone bed from about 1.2 to 1.7 m.				İ											
2 -				_ 2	7	HQ			100	82.				Ī			
3 -				-						-							
				3		нQ			100	91				T			1
4 -				-													
					Į,												
5		-Increasing dolostone content below about 4.8 m.		_ 4		HQ			100	100				+			
5.4																	
6 -		GOAT ISLAND DOLOSTONE Brownish grey to grey, fine crystalline, thin to				нQ				_				1			
6.5		medium bedded dolostone, moderate shale content,		5		но			100	72				+			4
_		occasional vertical to subvertical fractures, some calcite infilled vugs, minor occurrences of sphalerite															
7.2 7	==	and galena mineralization, trace fossils.				нQ				-							
		SHALE Dark brownish grey, aphanitic to very fine			Ä												
8 -		dolostone laminea, bioturbation at upper contact.		. 6		HQ			100	92.							
		dolostone laminea, bloturbation at upper contact.			Ä												
9 -				7						-							
				7		НQ			100	97				T			11
10 -				-						-							
			#		Ň												
11 -			********	- 8		НQ			94	94				4			4
			#										ł				
12 -			Ţ,	-						-						ı	
12.5					M						_	H	\dashv	-	Н	\vdash	++
		Borehole terminated at 12.47 m in dolostone.															
l																	
,																	
											L						
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BOREHOLE LOGPROJECT:92-372BOREHOLE:42-II1 of 1HYDROGEOLOGICAL INVESTIGATIONDATE:12 February 1992TARO QUARRIES - STONEY CREEKGEOLOGISTSMAFOR:TARO AGGREGATES LTD.ELEVATION193.6 m ASL

	¥		~			S	AM	PLI	<u> </u>									$\overline{\ \ }$
DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	NUMBER	INTERUAL	TYPE	VALUE	WATER	REC	RQO	RI		OVE %)	RY		R(_	
	ST			z	Ħ	٦	z	×	×	×	2	5 5	0 75	00	2	5 50	75 1	00
1.2 1 - 1.6 2 - 3 4 - 5.4 6.3 6 - 6.3		VINEMOUNT SHALE Dark brownish grey, aphanitic to very fine crystalline, thin to medium bedded shale, occasional dolostone beds and laminea, trace fossils. -Dolostone bed from about 1.2 to 1.7 m. -Increasing dolostone content below about 4.8 m. GOAT ISLAND DOLOSTONE Brownish grey to grey, fine crystalline, thin to medium bedded dolostone, moderate shale content, some calcite infiled vugs. Borehole terminated at 6.34 m in dolostone. NOTE: Borehole drilled using an Air Track Precussion Drill. Stratigraphy inferred from adjacent borehole 42-I.								-								

BOREHOLE LOGPROJECT:92-372BOREHOLE:42-III1 of 1HYDROGEOLOGICAL INVESTIGATIONDATE:12 February 1992TARO QUARRIES - STONEY CREEKGEOLOGISTSMAFOR:TARO AGGREGATES LTD.ELEVATION193.6 m ASL

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DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	NUMBER	INTERUAL	TYPE	VALUE	WATER	REC	RQD	RI		OV %)	ER	Y		QI %)	
	STR			₹	F	₹	z	*	×	*	2	5 5	0 7	5 100	2	5 50	75	100
1.2 1 -		VINEMOUNT SHALE Dark brownish grey, aphanitic to very fine crystalline, thin to medium bedded shale, occasional dolostone beds and laminea, trace fossils.								-								
1.6		-Dolostone bed from about 1.2 to 1.7 m.								_								
3 -			***************************************	-						-								
4.8															_			
		Borehole terminated at 4.75 m in shale.																
		NOTE: Borehole drilled using an Air Track Precussion Drill. Stratigraphy inferred from adjacent borehole 42-I.																
								:									-	
1																		
L	لـــــا		L.	<u> </u>	\perp		<u> </u>	<u> </u>	L	<u> </u>	L							

BOREHOLE LOGPROJECT:92-372BOREHOLE:43-11 of 1HYDROGEOLOGICAL INVESTIGATIONDATE:12 February 1992TARO QUARRIES - STONEY CREEKGEOLOGISTTLCFOR:TARO AGGREGATES LTD.ELEVATION192.4 m ASL

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	STRATIGRAPHY		MONITOR DETAILS & NUMBER		П	Ī					1						1
DEPTH	IG	STRATIGRAPHIC DESCRIPTION	FEE	œ	Q		VALUE	ER		_	RE	CO	VERY	1	RC	QD	
(m)	ΑT			冒	H	M	P.	WATER	REC	Rad		(%)		(%	b)	١
	TR		Σ 🗆 🚜	NUMBER	INTERUA	TYPE	z	3	χ π	×	-	-	-	-	-	- -	\dashv
		TOPSOIL		1	Ц.	SS	14	-	65	-	2:	5 50	75 100	25	50	75 100	\dashv
0.5		Dark brown to brown fine sandy silt, rootlets, some							-			-			1		
		fine subangular gravel and clay, moist, compact.		,		ss .	10		57								1
1.3		CLAYEY SILT		•		55	10			-	1						1
		Brown clayey silt, reworked, trace fine sand, APL,				-						-				H	
2.0		stiff.		3		SS	21		65								
	+I	SANDY SILT Brown, slightly mottled light grey, fine sandy silt,					_										
	$\uparrow \downarrow$	trace clay, slightly laminated, moist, compact.		4		ss	50		74								1
3 -		SANDY SILT TILL		-		ĺ				_							
3.5		Brown fine sandy silt, trace to some fine subangular		5	*****		82		80				「╻				1
3.6		gravel to coarse sand, horizontal to vertical		1	W 1	HQ			99	45							
4 -		fracturing with black oxidation, occasional dolostone		-	N					-					ĺ		
4.5		fragments, moist, very dense.															1
		GOAT ISLAND DOLOSTONE		_ 2	<u> </u>	HQ			100	01							ı
5 -		SHALE		- "	Ŋ.	וטה			100	81							1
		Dark brownish grey, aphanitic to very fine			Ä				j								1
		crystalline, thin bedded shale, some horizontal and			W												
6 -		vertical fracturing, locally interlaminated to thinly			ű					7							
		interbedded with dolostone.		3	H	4Q			100	82			T				
7		GOAT ISLAND DOLOSTONE			W												
, i		Brownish grey to grey, fine crystalline, thin to			Ŋ					1				ŀ			
		medium bedded dolostone, moderate shale content, occasional shale stringers, minor occurrences of			W												l
8		sphalerite mineralization and small calcite infilled		. 4	N F	IQ.			100	96-			•			4	1
		vugs locally.			V												1
		-Locally interlaminated with shale below about 6.3			Ň	İ		ĺ									1
9		m.			M		Ì		i	4				ĺ			l
		-3 cm cavity lined with well formed calcite crystals at about 6.6 m.			H		1	1						- 1			
	\subseteq	at about 0.0 m.		5	ŊH	IQ		Ì	90	83							
10 -			46	- [N					⊢							
	4	-1 cm cavity infilled with calcite crystallization	716		N												ı
10.8	\dashv	at about 10.6 m.		6	Н	IQ		İ	100	06			 			4	
11		ANCASTER CHERT BEDS Light brownish grey, very fine crystalline, medium			Ŋ	١٧			100	۲۳							ı
		bedded siliceous dolostone with numerous chert			N	İ						Ì.					
12		nodules and layers, minor occurrences of sphalerite		ĺ	Ŋ	İ		ŀ		- 1					ŧ		
' [and galena mineralization usually associated with the			Ň					1			<u> </u>				
	4	chert, some fossils.	#	7	И	IQ			100	90			T I			•	
13	4	-Large fracture encountered at about 12.3 m.	***************************************		N												
	4		#		1												
	\exists		#		N	IQ				J							
14.0	\dashv	Parabel 4 and 1 and 2 an			4	\perp	\perp			\dashv		1		\perp			
		Borehole terminated at 14.00 m in siliceaous dolostone with chert.															
		dolosione with Chert.															
<u>-</u>			1	1											Щ.	oxdot	J

BOREHOLE LOG
PROJECT: 20-654
BOREHOLE: 43-II 1 of 1

Further Monitor Installations
Taro East and West landfills
FOR: PSC

BOREHOLE: 43-II 1 of 1

CEOLOGIST MEW
ELEVATION 192.1 m ASL

DEPTH (m) STRATIGRAPHIC DESCRIPTION TOPSOIL Dark towns to brown fine sandy silt, rocotlets, some fine submangular gravel and clay, moist, compact CLAYEY SILT 2.0 2 SAMPLE (%) TOPSOIL Dark towns to brown fine sandy silt, rocotlets, some fine submangular gravel and clay, moist, compact CLAYEY SILT Brown fine sandy silt, race clay, elightly laminated, moist, compact CLAYEY SILT Brown fine sandy silt, race to some subangular gravel to coarse sand, horizonat lo vertical fineturing with black oxidation, occasional dolostone fragments, moist, very teenes. GOATISIAND DOLOSTONE Medium grey, fine crystalline thin-bedded dolostone, localised wags present. Bark grey, aphanetic to very fine crystalline, thinly bedded glabel, bioturbation observed at upper contact. SOATISIAND DOLOSTONE Medium grey, fine crystalline thin-bedded dolostone, localised wags present. Becoming grey with silicaeous blebs below about 8.4 m Borealost terminated at 11.48 m in Dolostone, overburden stratigraphy inferred from adjacent Boreable 43-1. Monitor replaces 5-1, which was decommissioned.	TOK.				_			1_1		7 17%	HON	174.1	m A	3L)
TOPSOIL 1.3 1.3 1.3 2.0 2 2 1.3 3.3 3.7 4.5 Brown clayer, fine crystalline thin-bedded dolostone with high shale content, localised vugs. 5.1 5.2 Dark grey, aphanetic to very fine crystalline, thinly bedded shale, bioturbation observed at upper contact. GOAT ISLAND DOLOSTONE Medium grey, fine crystalline thin-bedded dolostone, localised vugs present. -Becoming blue-grey and thinly interlaminated with shale below about 5.4 m. Borehole terminated at 11.48 m in Dolostone, overburden stratigraphy inferred from adjacent Borehole 43-1. Monitor		ДН				S	AM	PL	E					
Dark brown to brown fine sandy silt, rootlets, some fine subangular gravel and clay, moist, compact CLAYEY SILT Brown clayer silt, reworked, trace fine sand, APL, stiff SANDY SILT Brown, slightly mottled light grey, fine sandy silt, trace clay, slightly most layer silt, race to some subangular gravel to coarse sand, horizontal to vertical fracturing with black oxidation, occasional dolostone fragments, moist, very deans. SANDY SILT TILL Brown fine sandy silt, trace to some subangular gravel to coarse sand, horizontal to vertical fracturing with black oxidation, occasional dolostone fragments, moist, very deans. GOAT ISLAND DOLOSTONE Medium grey, fine crystalline thin-bedded dolostone with high shale content, localised vugs. SHALE Dark grey, aphanetic to very fine crystalline, thinly bedded dalate, bioturbation observed at upper contact. GOAT ISLAND DOLOSTONE Medium grey, fine crystalline thin-bedded dolostone, localised vugs present. Becoming blue-grey and thinly interlaminated with shale below about 5.4 m. Becoming grey with silicaeous blebs below about 8.4 m Borebole terminated at 11.48 m in Dolostone, overburden stratigraphy inferred from adjacent Borebole 43-1. Monitor	1		MONITOR DETAILS & NUMBER	NUMBER	INTERVAL		VALUE	WATER	REC	100 00	(%)	('	%)
CALAYEY SILT Brown clayey silt, reworked, trace fine sand, APL, stiff SANDY SILT Brown, slightly mottled light grey, fine sandy silt, trace clay, slightly laminated, moist, compact. SANDY SILT TILL Brown fine sandy silt, trace to some subangular gravel to coarse sand, horizontal to vertical fracturing with black oxidation, occasional dolostone fragments, moist, very dense. GOAT ISLAND DOLOSTONE Medium grey, fine crystalline thin-bedded dolostone with high shale content, localised vugs. SHALE Dark grey, aphanetic to very fine crystalline, thinly bedded shale, bioturbation observed at upper contact. GOAT ISLAND DOLOSTONE Medium grey, fine crystalline thin-bedded dolostone, localised vugs present. Becoming blue-grey and thinly interlaminated with shale below about 5.4 m. Borehole terminated at 11.48 m in Dolostone, overburden stratigraphy inferred from adjacent Borehole 43-1. Monitor	0.5	Dark brown to brown fine sandy silt, rootlets, some fine												
Brown, slightly mottled light grey, fine sandy silt, trace clay, slightly laminated, moist, compact. SANDY SILT TILL Brown fine sandy silt, trace to some subangular gravel to coarse sand, horizontal to vertical fracturing with black oxidation, occasional dolostone fragments, moist, very dense. GOAT ISLAND DOLOSTONE Medium grey, fine crystalline thin-bedded dolostone with high shale content, localised vugs. SHALE Dark grey, aphanetic to very fine crystalline, thinly bedded shale, bioturbation observed at upper contact. GOAT SISLAND DOLOSTONE Medium grey, fine crystalline thin-bedded dolostone, localised vugs present. -Becoming blue-grey and thinly interlaminated with shale below about 5.4 m. Becoming grey with silicaeous blebs below about 8.4 m Borehole terminated at 11.48 m in Dolostone, overburden stratigraphy inferred from adjacent Borehole 43-1. Monitor	1.3	Brown clayey silt, reworked, trace fine sand, APL, stiff		-			-			-				
Brown fine sandy silt, trace to some subangular gravel to coarse sand, horizontal to vertical fracturing with black oxidation, occasional dolostone fragments, moist, very dense. GOAT ISLAND DOLOSTONE Medium grey, fine crystalline thin-bedded dolostone with high shale content, localised vugs. SHALE Dark grey, aphanetic to very fine crystalline, thinly bedded shale, bioturbation observed at upper contact. GOAT ISLAND DOLOSTONE Medium grey, fine crystalline thin-bedded dolostone, localised vugs presentBecoming blue-grey and thinly interlaminated with shale below about 5.4 m. Becoming grey with silicaeous blebs below about 8.4 m Becoming grey with silicaeous blebs below about 8.4 m Borehole terminated at 11.48 m in Dolostone, overburden stratigraphy inferred from adjacent Borehole 43-1. Monitor	2.0 2	Brown, slightly mottled light grey, fine sandy silt, trace clay, slightly laminated, moist, compact.		-										
dense. GOAT ISLAND DOLOSTONE Medium grey, fine crystalline thin-bedded dolostone with high shale content, localised vugs. SHALE Dark grey, aphanetic to very fine crystalline, thinly bedded shale, bioturbation observed at upper contact. GOAT ISLAND DOLOSTONE Medium grey, fine crystalline thin-bedded dolostone, localised vugs presentBecoming blue-grey and thinly interlaminated with shale below about 5.4 m. Becoming grey with silicaeous blebs below about 8.4 m Borehole terminated at 11.48 m in Dolostone, overburden stratigraphy inferred from adjacent Borehole 43-1. Monitor	3.3	Brown fine sandy silt, trace to some subangular gravel to coarse sand, horizontal to vertical fracturing with black		-						-				
Medium grey, fine crystalline thin-bedded dolostone with high shale content, localised vugs. SHALE Dark grey, aphanetic to very fine crystalline, thinly bedded shale, bioturbation observed at upper contact. GOAT ISLAND DOLOSTONE Medium grey, fine crystalline thin-bedded dolostone, localised vugs presentBecoming blue-grey and thinly interlaminated with shale below about 5.4 m. Becoming grey with silicaeous blebs below about 8.4 m Borehole terminated at 11.48 m in Dolostone, overburden stratigraphy inferred from adjacent Borehole 43-1. Monitor	3.7	dense.												
Dark grey, aphanetic to very fine crystalline, thinly bedded shale, bioturbation observed at upper contact. GOAT ISLAND DOLOSTONE Medium grey, fine crystalline thin-bedded dolostone, localised vugs present. Becoming blue-grey and thinly interlaminated with shale below about 5.4 m. Becoming grey with silicaeous blebs below about 8.4 m Borehole terminated at 11.48 m in Dolostone, overburden stratigraphy inferred from adjacent Borehole 43-I. Monitor	4.5	Medium grey, fine crystalline thin-bedded dolostone with high shale content, localised vugs.									.			
GOAT ISLAND DOLOSTONE Medium grey, fine crystalline thin-bedded dolostone, localised vugs presentBecoming blue-grey and thinly interlaminated with shale below about 5.4 m. Becoming grey with silicaeous blebs below about 8.4 m Borehole terminated at 11.48 m in Dolostone, overburden stratigraphy inferred from adjacent Borehole 43-I. Monitor	5 -	Dark grey, aphanetic to very fine crystalline, thinly bedded		-						1				
Borehole terminated at 11.48 m in Dolostone, overburden stratigraphy inferred from adjacent Borehole 43-I. Monitor	6 -	GOAT ISLAND DOLOSTONE Medium grey, fine crystalline thin-bedded dolostone, localised vugs present.											-	
Borehole terminated at 11.48 m in Dolostone, overburden stratigraphy inferred from adjacent Borehole 43-I. Monitor	7 -													
11.5 Borehole terminated at 11.48 m in Dolostone, overburden stratigraphy inferred from adjacent Borehole 43-I. Monitor	8 -			.										
Borehole terminated at 11.48 m in Dolostone, overburden stratigraphy inferred from adjacent Borehole 43-I. Monitor	9 -	-Becoming grey with silicaeous blebs below about 8.4 m												
Borehole terminated at 11.48 m in Dolostone, overburden stratigraphy inferred from adjacent Borehole 43-I. Monitor	10 -			.										
Borehole terminated at 11.48 m in Dolostone, overburden stratigraphy inferred from adjacent Borehole 43-I. Monitor			32											
Borehole terminated at 11.48 m in Dolostone, overburden stratigraphy inferred from adjacent Borehole 43-I. Monitor	H									1				
		stratigraphy inferred from adjacent Borehole 43-I. Monitor												

BOREHOLE LOGPROJECT:92-372BOREHOLE:44-I1 of 1HYDROGEOLOGICAL INVESTIGATIONDATE:18 February 1992TARO QUARRIES - STONEY CREEKGEOLOGISTSMAFOR:TARO AGGREGATES LTD.ELEVATION188.1 m ASL

	≥					SA	M	PLE						Т		
DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	NUMBER	INTERUAL	rPE	VALUE	WATER	REC	RQD		(%			R(6)
	<u> </u>			ž	Ħ	F	z	*	*	*	25	50 7	5 100	2	5 50	75 100
1.2 1 -		CLAYEY SILT Medium brown clayey silt, orange and black mottling, rootlets, APL, firm to stiff.		2		ss ss	6		50 50							
2 -		SANDY SILT TILL Light to medium brown sandy silt, trace clay, oxidized fractures, saturated, compact.		3			19		83	1						
2.8	* 4			4	#	1	15		100							
3 -		GOAT ISLAND DOLOSTONE Brownish grey to grey, fine crystalline, thin to medium bedded dolostone, moderate shale content,		г 1	3.1	HQ HQ			92 100	52 99						
5 -		occasional shale stringers.		3 4		HQ HQ			92 100	83 99						
6.7		ANGACTED CUEDT DEDC			M	но		5	100	86						•
8		ANCASTER CHERT BEDS Light brownish grey, very fine crystalline, medium bedded siliceous dolostone with numerous chert nodules and layers.				НQ		6	100	92						•
9.4		-Large fracture encountered at about 8.9 m.								-						
		Borehole terminated at 9.35 m in siliceous dolostone with chert.														

BOREHOLE LOGPROJECT:92-372BOREHOLE:44-II1 of 1HYDROGEOLOGICAL INVESTIGATIONDATE:18 February 1992TARO QUARRIES - STONEY CREEKGEOLOGISTSMAFOR:TARO AGGREGATES LTD.ELEVATION188.1 m ASL

	¥			Ĺ		S	AM	PLI	E									$\bar{1}$
DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	NUMBER	INTERUAL	TYPE	1 VALUE	; WATER	. REC	RQD	_		6)		- 1	RQ (%) T T	
2 - 2.8 3 -	5 т. в.	CLAYEY SILT Medium brown clayey silt, orange and black mottling, rootlets, APL, firm to stiff. SANDY SILT TILL Light to medium brown sandy silt, trace clay, oxidized fractures, saturated, compact. GOAT ISLAND DOLOSTONE Brownish grey to grey, fine crystalline, thin to medium bedded dolostone, moderate shale content, occasional shale stringers.		יייי	INI	TYF) Z	3 %	×	× -	2	5 50	-	100	255	1	75 100	
6.2 6		Borehole terminated at 6.10 m in dolostone. NOTE: Drilled directly to 6.20 m, stratigraphy inferred froam adjacent borehole 44-I.																

BOREHOLE LOG	PROJECT: 92-372	BOREHOLE: 45-I l of l
HYDROGEOLOGICAL INVESTIGAT	TION	DATE: 20 May 1992
TARO QUARRIES - STONEY CREE	K	GEOLOGIST SMA
FOR TARO AGGREGATES LTD.		ELEVATION 188.5 m ASL

눌		n			SAM	PLI	2					
(m) DELLH DEATH	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	NUMBER	TYPE	VALUE	WATER	REC	D D	RECOV		(QD %)
STI		Managa managa	-		_1	×	*	<u>×</u>	25 50 75	100	25 50	75 100
0.5	TOPSOIL Brown fine clayey silt with some sand, and trace gravel, rust staining, rootlets throughout, DTPL,		2				60 80	_				
	firm to stiff. SILTY SAND TILL Brown fine to medium sand with some silt and trace		3	SS	31		80	_				
2.4 2	gravel and rootlets, moist, compact to dense. GOAT ISLAND DOLOSTONE Brownish grey to grey, fine crystalline, thin to		4	ss HC			100 88	0			•	
3 -	medium bedded dolostone, moderate shale content, occasional shale stringers, locally vuggy with some vugs infilled with calcite.		2	Н	5		100	63				A
5 -			- 3	но	5		100	75-				
6.3	ANCASTER CHERT BEDS		4	но	5		100	53				
7	Light brownish grey, very fine crystalline, medium bedded siliceous dolostone with numerous chert nodules and layers, minor occurrences of shale stringers and vugs.		_ 5				1.00	70				
8 -			_ 5	Н	2		100	73.				
10 -			- 6 -	Н	S		100	81				A
10.6	GASPORT DOLOSTONE Medium to dark grey, coarse crystalline, medium											
	bedded dolostone, porous. Borehole terminated at 10.90 m in dolostone.											
									Sartne			• • •

BOREHOLE LOG PROJECT: 92-372 BOREHOLE: 45-II 1 of 1

HYDROGEOLOGICAL INVESTIGATION DATE: 20 May 1992

TARO QUARRIES - STONEY CREEK GEOLOGIST SMA
FOR: TARO AGGREGATES LTD. ELEVATION 188.5 m ASL

	THE AGGREGATES ETD.									110		100.5	шА	.SL
		n n	L		S	AM	PL)	E						
DEPTH (m)	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS	NUMBER	INTERUAL	TYPE	N VALUE	% WATER	% REC	% RQD		(%)		(QD %)
0.5 1 2 2.4 3 4 5 6.3 6.3	TOPSOIL Brown fine clayey silt with some sand, and trace gravel, rust staining, rootlets throughout, DTPL, firm to stiff. SILTY SAND TILL Brown fine to medium sand with some silt and trace gravel and rootlets, moist, compact to dense. GOAT ISLAND DOLOSTONE Brownish grey to grey, fine crystalline, thin to medium bedded dolostone, moderate shale content, occasional shale stringers, locally vuggy with some vugs infilled with calcite. ANCASTER CHERT BED Light brownish grey, very fine crystalline, medium bedded siliceous dolostone with numerous chert nodules and layers, minor occurrences of shale stringers and vugs. Borehole terminated at 7.10 m in siliceous dolostone with chert. NOTE: Borehole drilled directly to 7.10 m, statrigraphy inferred from adjacent borehole 45-I		\(\frac{1}{2}\)			z		×	×		50 7			75 100

BOREHOLE LOG PROJECT: 92-372 BOREHOLE: 46-I 1 of 2

HYDROGEOLOGICAL INVESTIGATION DATE: 21 May 1992

TARO QUARRIES - STONEY CREEK GEOLOGIST SMA
FOR: TARO AGGREGATES LTD. ELEVATION 190.6 m ASL

FOR:	TARO AGGREGATES LTD.									170.0			
	\H_	l n			S	AM	PLE	<u> </u>					İ
DEPTH (m)	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	NUMBER	INTERUAL	TYPE	N VALUE	% WATER	% REC	% RQD	RECOVERY (%) 25 50 75 100	25	RQ (%	
0.8	TOPSOIL Dark brown fine sandy silt to silty fine sand, some Clay and trace gravel, rootlets, moist, loose.				SS	8		50					
1.5	CLAYEY SILT Dark brown clayey silt with trace coarse sand, some rootlets, DTPL, firm.				SS	23 31		75 100	1	•			
2.4	SILTY SAND TILL Brown silty sand with grey mottling, moist, dense. -mixed with weathered dolostone below 1.7 m.	ſ	4		SS HQ	32		100 90	18	╽╽╽┢╸	4		
3.3	GOAT ISLAND DOLOSTONE	-	ŀ		HQ			100	40			•	
4 -	Dark brownish grey, aphanitic to very fine crystalline, thin bedded shale, locally interlaminated to interbedded with dolostone, trace fossils. GOAT ISLAND DOLOSTONE		-						-				
5 -	Brownish grey to grey, fine crystalline, thin to medium bedded dolostone, moderate shale content, occasional shale stringers and vugs infilled with		- 3		HQ			100	80-				
6	calcite.		4		HQ			100	100				
7 -	-chert nodules below about 7.0 m.				НQ				-				
8			- 5		HQ			100	100				
9 -			6					100	83				
10.3 10 -	ANCASTER CHERT BEDS	_	-										
11	Light brownish grey, very fine crystalline, medium bedded siliceous dolostone with numerous chert nodules and beds, minor occurrences of shale stringers.		7		HQ			100	90				
12			8		нQ			100	94				
13									-				
14			9		нQ			100	100				
L		1 7		W			L		<u> </u>		لمسل		لسلسك

BOREHOLE LOGPROJECT:92-372BOREHOLE:46-I2 of 2HYDROGEOLOGICAL INVESTIGATIONDATE:21 May 1992TARO QUARRIES - STONEY CREEKGEOLOGISTSMAFOR:TARO AGGREGATES LTD.ELEVATION190.6 m ASL

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DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	NUMBER	INTERUAL		N VALUE	% WATER	% REC	2 RQD	_	(%	ER	_	1	RQI (%)		
15.4		ANCASTER CHERT BEDS(continued)							_	-			H		+		ΪÏ	100	\dashv
10.4		GASPORT DOLOSTONE			N														1
16.0		Medium blue grey, coarse crystalline, medium bedded			Ä														1
		dolostone.			П										\top	Т	П		1
		Borehole terminated at 15.95 m. in dolostone.			Ш										-				
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BOREHOLE LOGPROJECT: 92-372BOREHOLE: 46-II 1 of 1HYDROGEOLOGICAL INVESTIGATIONDATE: 24 May 1992TARO QUARRIES - STONEY CREEKGEOLOGIST SMAFOR: TARO AGGREGATES LTD.ELEVATION 190.6 m ASL

FOR:		NO AGGREGATES ETC.			_	 				 _						\equiv
DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	NUMBER	INTERUAL	N UALUE W	N WATER 7	% REC	% RQD	 CO (%	(o)	RY 00	25	R()	(o)	00
0.8 1 - 1.5 2 - 2 - 2 - 3 - 3 - 3 - 3 - 3 - 4 - 4 - 4 - 4 - 4		TOPSOIL Dark brown fine sandy silt to silty fine sand, some clay and trace gravel, rootlets, moist, loose. CLAYEY SILT Dark brown clayey silt with trace coarse sand, some rootlets, DTPL, firm. SILTY SAND TILL Brown silty sand with grey mottling, moist, densemixed with weathered dolostone below 1.7 m. GOAT ISLAND DOLOSTONE SHALE Dark brownish grey, aphanitic to very fine crystalline, thin bedded shale, locally interlaminated to interbedded with dolostone, trace fossils. 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 6.35 m in dolostone. NOTE: Borehole drilled directly to 6.35 m. Stratigraphy inferred from adjacent borehole 46-I.														
	ــــــــــــــــــــــــــــــــــــــ	I				 	ــــــــــــــــــــــــــــــــــــــ	<u> </u>		 						-

BOREHOLE LOGPROJECT:92-372BOREHOLE:47-11 of 2HYDROGEOLOGICAL INVESTIGATIONDATE:20 October 1992TARO QUARRIES - STONEY CREEKGEOLOGISTPWFOR:TARO AGGREGATES LTD.ELEVATION201.7 m ASL

	<u></u>			5	SAM	PLI	<u> </u>							
DEPTH (m)	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	NUMBER		VALUE	% WATER	REC	RQD		(%			RQ (%)
			1		Z 17	22	× 25	*	25	50 7	5 100	2	5 50 7	5 100
0.6 1 -	TOPSOIL Dark brown mottled rust brown to reddish brown clayey silt with gravel, some rootlets, moist, compact. FILL		1 made	SS	17	17	35 40	-	•					
2 -	Dark brown, mottled, clayey silt, some gravel, DTPL, firm to stiff.		3		24	19	35	-						
3 -			4	SS	17	15 22	30 30	-						
4			- 6	Sing-ross	10	21	15	-						
4.5 5 -	CLAYEY SILT Dark brown mottled rust brown, reddish brown and grey, clayey silt, trace gravel, DTPL, firm.		7	SS	9	8	20							
6.3	grey, clayey she, trace graves, B11 B, mm.		8		13 26/	24	30	14				1		
7 -	ERAMOSA DOLOSTONE Brownish grey to grey, fine crystalline, thin bedded dolostone, occasional vertical fractures, moderate shale content, locally weathered.		-	SS HQ		1	100	17						
8 - 8.4	VINEMOUNT SHALE		2	НQ			99	66-					•	
9.4	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		3	НQ			100	66			•		•	
10.3 10	at lower contact and fossils at upper contact. -Grey dolostone bed from about 9.4 to 10.3 m, numerous clay seams.			НQ			100							A
12			N				100	02						
13			5	НQ			100	85						•
13.9 14	GOAT ISLAND DOLOSTONE		5	НQ			99	73			•			
15.0	Brownish grey to grey, fine crystalline, thin to medium bedded dolostone, trace fossils.													

BOREHOLE LOG	PROJECT: 92-372	BOREHOLE: 47-I 2 of 2
HYDROGEOLOGICAL INVEST	rigation	DATE: 20 October 1992
TARO QUARRIES - STONEY	CREEK	GEOLOGIST PW
FOR: TARO AGGREGATES	LTD.	ELEVATION 201.7 m ASL

			l T		_	-	434	DIT							Т			
DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	NUMBER	INTERUAL		N VALUE W	% WATER TA	% REC	% RQD		(%)	ER'		(QD %) 75 1	
ļ	S	,-3 cm cavity with well formed calcite crystals		F	M	-	_				┝╡	3 5	1	100	+-	5 80	191	7
15.9 16 -		SHALE Dark brownish grey, medium bedded shale, slightly interlaminated with dolostone, bioturbation at upper contact.		-		НQ			100	83							•	
17 -		-Minor occurrences of shale stringers and gypsum seams below about 15.9 mFractured zones from about 16.4 to 16.5 and from	***********	8		НQ				-								
^{18.1} 18 -		about 16.7 and 16.8. Borehole terminated at 18.06 m in dolostone.		-	Z										\vdash			
-																		
L	<u> </u>		1			<u> </u>	L	Ц			Ļ	Щ		ᄔ	ــــــــــــــــــــــــــــــــــــــ	₩.		

Printed: 4 OCT 93

BOREHOLE LOG	PROJECT: 92-372	BOREHOLE: 47-II 1 of 2
HYDROGEOLOGICAL INVEST	IGATION	DATE: 21 October 1992
TARO QUARRIES - STONEY (CREEK	GEOLOGIST PW
FOR: TARO AGGREGATES L	TD.	ELEVATION 201.9 m ASL

	¥		~			S	AM	PLI	E		Γ							\equiv
DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	NUMBER	INTERUAL	TYPE	VALUE	WATER	REC	RQD	R		OV %)	ERY			QD %)	
	ST			ž	Ħ	F	z	×	*	×		25 5	0 7	5 100	2	5 50	75	100
0.6	***	TOPSOIL Dark brown mottled rust brown to reddish brown Clayey silt with gravel, some rootlets, moist, compact.																
1 -	▓	FILL Dark brown, mottled, clayey silt, some gravel, DTPL,								-								
2 -		firm to stiff.		-						-								
3 -				-						_								
4.5				-						-								
5 -		CLAYEY SILT Dark brown mottled rust brown, reddish brown and grey, clayey silt, trace gravel, DTPL, firm.		-						_								
6 -										-								
6.8																		
7 -		ERAMOSA DOLOSTONE Brownish grey to grey, fine crystalline, thin bedded																
8 -		dolostone, occasional vertical fractures, moderate shale content, locally weathered.								_								
8.4		VINEMOUNT SHALE																
9. 4		Dark brownish grey, aphanitic to very fine crystalline, thin to medium bedded shale, interlaminated to locally interbedded with dolostone,								1								
10.3 10 -		dolostone beds usually associated with bioturbation at lower contact and fossils at upper contact.		-						-								
		-Grey dolostone bed from about 9.4 to 10.3 m, numerous clay seams.																
11										-								
12			-															
13																		
13.9																		
14	7	GOAT ISLAND DOLOSTONE	****							-								
15.0	\exists	Brownish grey to grey, fine crystalline, thin to medium bedded dolostone, trace fossils.	#															
15.0					\perp		L					\perp		لــــــــــــــــــــــــــــــــــــــ		<u>.</u>	<u> </u>	Ш

BOREHOLE LOGPROJECT:92-372BOREHOLE:47-II2 of 2HYDROGEOLOGICAL INVESTIGATIONDATE:21 October 1992GEOLOGISTPWFOR: TARO AGGREGATES LTD.

	<u>}</u>		~			s	AM	PLE	2		 			Τ			
DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	NUMBER	INTERUAL	TYPE	N VALUE	% WATER	% REC	% RQD	(%)	ER		(RQ] (%)	
		at about 14.6 m. Borehole terminated at 14.98 m in dolostone. NOTE: Stratigraphy inferred from adjacent borehole 47-I. Borehole cored directly to 14.98 m, logged to confirm contacts and for monitor placement.															

BOREHOLE LOGPROJECT:92-372BOREHOLE:47-III1 of 1HYDROGEOLOGICAL INVESTIGATIONDATE:22 October 1992TARO QUARRIES - STONEY CREEKGEOLOGISTPWFOR:TARO AGGREGATES LTD.ELEVATION201.7 m ASL

				_	_						1		201.			
DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS NUMBER	IBER	ERUAL		AM HOLUE			Q.	RE		/ERY)		RQ (%	
	STR		Σ Ο 4	Įξ	IN	Ϋ́	z	3	2 %	W	25			25		
0.6 1 - 3 - 4.5 5 - 6 - 7.3 7 - 8.4 9 - 9.4	THE STRATIGE	TOPSOIL Dark brown mottled rust brown to reddish brown clayey silt with gravel, some rootlets, moist, compact. FILL Dark brown, mottled, clayey silt, some gravel, DTPL, firm to stiff. CLAYEY SILT Dark brown mottled rust brown, reddish brown and grey, clayey silt, trace gravel, DTPL, firm. ERAMOSA DOLOSTONE Brownish grey to grey, fine crystalline, thin bedded dolostone, occasional vertical fractures, moderate shale content, locally weathered. VINEMOUNT SHALE Dark brownish grey, aphanitic to very fine crystalline, thin to medium bedded shale,	MONITO DETAIL DETAIL A NUMB	NUMBER	INTERIOR	TYPE	N UALUE	% WATER	X REC	א אמם		(%			(%	
10.3 10		interlaminated to locally interbedded with dolostone, dolostone beds usually associated with bioturbation at lower contact and fossils at upper contact.	#	_						_						
11.0 11		-Grey dolostone bed from about 9.4 to 10.3 m, numerous clay seams. Borehole terminated at 11.03 in shale. NOTE: Stratigraphy inferred from adjacent borehole 47-I. Borehole cored directly to 11.03 m, logged to confirm contacts and for monitor placement.														

BOREHOLE LOG PROJECT: 92-372 BOREHOLE: 47-IV 1 of 1

HYDROGEOLOGICAL INVESTIGATION
TARO QUARRIES - STONEY CREEK
FOR: TARO AGGREGATES LTD.

BOREHOLE: 47-IV 1 of 1

DATE: 22 October 1992

GEOLOGIST PW
ELEVATION 201.9 m ASL

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DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	NUMBER	INTERUAL	TYPE	N VALUE	% WATER	% REC	% RQD	RE((%		25	RQ (%	
0.6 1 - 2 - 3 - 4 - 4.5		TOPSOIL Dark brown mottled rust brown to reddish brown clayey silt with gravel, some rootlets, moist, compact. FILL Dark brown, mottled, clayey silt, some gravel, DTPL, firm to stiff.		-												
6 - 7 - 7.5		CLAYEY SILT Dark brown mottled rust brown, reddish brown and grey, clayey silt, trace gravel, DTPL, firm. ERAMOSA DOLOSTONE								-						
8.3		Brownish grey to grey, fine crystalline, thin bedded dolostone, occasional vertical fractures, moderate shale content, locally weathered. Borehole terminated at 8.29 m in dolostone. NOTE: Stratigraphy inferred from adjacent borehole 47-I. Borehole cored directly to 8.29 m, logged to confirm contacts and for monitor placement.														

BOREHOLE LOGPROJECT:92-372BOREHOLE:48-I1 of 3HYDROGEOLOGICAL INVESTIGATIONDATE:30 September 1992TARO QUARRIES - STONEY CREEKGEOLOGISTBMHFOR:TARO AGGREGATES LTD.ELEVATION203.8 m ASL

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DEPTH (m)	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	NUMBER	INTERUAL	F.	VALUE	1	RQD		OVERY (%)		QD %)
			ž	F		z ×	*	×	25	50 75 100	2 5 50	75 100
1	FILL Brown clayey silt, some fine gravel to coarse sand, fractures with oxidation, DTPL, soft to stiff.		2 3		s	11 20 21 23 35 21		-				
2.1 2	CLAYEY SILT Brown clayey silt, laminated, DTPL to APL, stiff. -Fractures with oxidation to about 3.6 m.		4			32 22		-				
4.6			- 6			20 24		_				
4.8	SILTY SAND TILL Brown silty sand to sandy silt with gravel, laminated, wet, dense. ERAMOSA DOLOSTONE		- 1		Q	10	100	61_				
6	Brownish grey, fine crystalline, thin to thick bedded dolostone, numerous shale stringers, occasional vugs and gypsum nodules, minor occurrence of sphalerite mineralization.			H			94	83				
7 - 8 -	-Locally thinly interbedded with shale below about 8.0 m.		- 3 -	H	Q		100	70				
9			4	Н	Q		100	89				
10.9			- 5	н	5		99	90		•		
11 +	VINEMOUNT SHALE Dark brownish grey, aphanitic to very fine crystalline, thin to thick bedded shale, locally interlaminated to interbedded with dolostone,											
12.9	dolostone beds usually associated with bioturbation at lower contact and fossils at upper contact. -Grey dolostone bed with moderate shale content locally from about 12.2 to 12.9 m.		6	H	3		91	90				
14			6	но	5		100	92				
	4 001 93											

BOREHOLE LOGPROJECT: 92-372BOREHOLE: 48-I 2 of 3HYDROGEOLOGICAL INVESTIGATIONDATE: 30 September 1992TARO QUARRIES - STONEY CREEKGEOLOGIST BMHFOR: TARO AGGREGATES LTD.ELEVATION 203.8 m ASL

FOR:		TO AUGREGATES ETS.				SAN	PI.I	7			1		
DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	NUMBER	TYPE	J.	WATER	% REC	% RQD	(OVERY %) 0 75 100	RQ (% 25 50 3)
		VINEMOUNT SHALE(continued)		8	н	Q		100	94				1
16.6		-Transitional below about 15.7 m.		-					1				
17 -		GOAT ISLAND DOLOSTONE Brownish grey to grey, fine crystalline, medium bedded dolostone, minor shale content locally, trace		9	Н	Q		100	100				
17.7		stringers and gypsum nodules to about 17.7 m.		- 10	Н	Q		100	68				
19		SHALE Dark brownish grey, medium bedded shale, interlaminated with dolostone, bioturbation at upper		_					_				
20 -		-Thin bedded from about 18.6 to 19.9 mFractured zone from about 18.8 to 19.2 mBecoming medium to massive bedded below about		_11	Н	Q		100	100				
21		20.0 m.		12	н	(Q		100	100				•
22				-					-				
23				13	H	[Q		100	88				
24				14	H	IQ		99	98				
24.9 25 -		ANCASTER CHERT BEDS Brownish grey to grey, very fine crystalline, medium to massive bedded siliceous dolostone with numerous		╟	W	1			-				
26		chert nodules and layers, minor occurrences of sphalerite mineralization usually associated with chert.		_ 15	H	IQ		100	95				
27				16	H	IQ.		100	100				
28		-Fractured zone from about 28.4 to 28.5 m.		_									
29		-Decreasing chert and transitional below about 29.3 m.	<u></u>	17	H	JQ.		100	100	0			
29.8					W							- 1:	

BOREHOLE LOGPROJECT:92-372BOREHOLE:48-13 of 3HYDROGEOLOGICAL INVESTIGATIONDATE:30 September 1992TARO QUARRIES - STONEY CREEKGEOLOGISTBMHFOR:TARO AGGREGATES LTD.ELEVATION203.8 m ASL

TOK.	441	RO AGGREGATES LTD.							· // /	ION		,,,,	111	ASL	
	사		K W M												
DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	NUMBER	INTERUAL	N UALUE	% WATER	% REC	% RQD		OVE (%)		1	RQD (%)	
30.6 31 - 31.7 32 - 33.4		GASPORT DOLOSTONE Buff to blue grey, coarse crystalline, medium bedded dolostone, porous, some fossils. -Transitional below about 30.4 m. DECEW DOLOSTONE Grey, fine crystalline, massive dolostone thinly interbedded with shale. ROCHESTER SHALE Dark grey to grey, aphanitic to very fine crystalline, massive dolomitic shale. Borehole terminated at 33.35 m in dolomitic shale.		-	НQ				100						

BOREHOLE LOGPROJECT: 92-372BOREHOLE: 48-II 1 of 2HYDROGEOLOGICAL INVESTIGATIONDATE: 1 October 1992TARO QUARRIES - STONEY CREEKGEOLOGIST BMHFOR: TARO AGGREGATES LTD.ELEVATION 203.8 m ASL

FUR:	1711	O AGGREGATES ETD.															
	¥		~	SAMPLE													
DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	NUMBER	INTERVAL	TYPE	VALUE	WATER	REC	RQD	RI)V] %)	ERY		RQ (%	
, ,	T.			Z	F	₹	z	×	×	×	2	5 50	75	100	25	50 7	5 100
1 -		FILL Brown clayey silt, some fine gravel to coarse sand, fractures with oxidation, DTPL, soft to stiff.		•													
2.1 ₂ .		CLAYEY SILT Brown clayey silt, laminated, DTPL to APL, stiffFractures with oxidation to about 3.6 m.		-													
4.6 4.8		SILTY SAND TILL															
5 -		Brown silty sand to sandy silt with gravel, laminated, wet, dense.		-						-							
6 -		ERAMOSA DOLOSTONE Brownish grey, fine crystalline, thin to thick bedded dolostone, numerous shale stringers, occasional vugs and gypsum nodules, minor occurrence of sphalerite		-													
7 -		mineralization.		-													
8		-Locally thinly interbedded with shale below about 8.0 m.		-										-			
9																	
10 -				_													
10.9		VINEMOUNT SHALE Dark brownish grey, aphanitic to very fine															
12.2 12		crystalline, thin to thick bedded shale, locally interlaminated to interbedded with dolostone, dolostone beds usually associated with bioturbation									-						
12.9 13		at lower contact and fossils at upper contact. -Grey dolostone bed with moderate shale content locally from about 12.2 to 12.9 m.									1						
14		-Moderate dolostone content below about 12.9 m.		-							1						
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BOREHOLE LOGPROJECT:92-372BOREHOLE:48-II2 of 2HYDROGEOLOGICAL INVESTIGATIONDATE:1 October 1992TARO QUARRIES - STONEY CREEKGEOLOGISTBMHFOR:TARO AGGREGATES LTD.ELEVATION203.8 m ASL

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DEPTH	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS	œ	UAL		3	ER			RE	ECC	VI	ERY		RO	QD	
(m)	RAT		N N N	NUMBER	INTERUA	TYPE	UALUE	WATER	REC	200		(%)			(%	6)	
	ST		Siblis : Car sa	ž	F	۶	z	×	×	*	2	5 50	75	100	2	5 50	75 10	00
		VINEMOUNT SHALE(continued)																
16	臣	-Transitional below about 15.7 m.									l					ĺ		
16.6																		
4.7		GOAT ISLAND DOLOSTONE										-						
17 -		Brownish grey to grey, fine crystalline, medium								-						İ	İ	
17.7		bedded dolostone, minor shale content locally, trace occurrences of thin gypsum seams. Occasional shale										l						
18 -		stringers and gypsum nodules to about 17.7 m.		-						-								
18.6		-1 cm well formed gypsum seam at about 17.3 m.											ł					
19 -		Dark brownish grey, medium bedded shale,	1															
		interlaminated with dolostone, bioturbation at upper	1															
20		contact. , -Thin bedded from about 18.6 to 19.9 m.	***															
20 –		-Fractured zone from about 18.8 to 19.2 m.		_	Ш					-								
20.7		-Becoming medium to massive bedded below about \ackslash 20.0 m.		L	\coprod													
		Borehole terminated at 20.73 m in dolostone.																
		NOTE: Stratigraphy inferred from adjacent borehole			П													
		48-I. Borehole cored directly to 20.73 m, logged to																
		confirm contacts and for monitor placement.																
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BOREHOLE LOGPROJECT: 92-372BOREHOLE: 48-III 1 of 2HYDROGEOLOGICAL INVESTIGATIONDATE: 1 October 1992TARO QUARRIES - STONEY CREEKGEOLOGIST BMHFOR: TARO AGGREGATES LTD.ELEVATION 203.8 m ASL

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	È		_ ~			S	AM	PLI	Ξ								
DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	NUMBER	INTERUAL	TYPE	VALUE	WATER	REC	RQD		(%				QD (%)	1
	STE			ž	Ħ	F	z	×	×	×	2	5 50	75 100		25 50	75	100
1 -		FILL Brown clayey silt, some fine gravel to coarse sand, fractures with oxidation, DTPL, soft to stiff.		-						_							
2.1 2 -		CLAYEY SILT Brown clayey silt, laminated, DTPL to APL, stiff. -Fractures with oxidation to about 3.6 m.		-													
4.6																	
4.8 5 -	****	SILTY SAND TILL Brown silty sand to sandy silt with gravel, laminated, wet, dense.		-						-				-1			
6 -		ERAMOSA DOLOSTONE Brownish grey, fine crystalline, thin to thick bedded dolostone, numerous shale stringers, occasional vugs and gypsum nodules, minor occurrence of sphalerite mineralization.		-						-							
8 -		-Locally thinly interbedded with shale below about 8.0 m.															
9 -				-													
10 -				-						-							
10.9		VINEMOUNT SHALE Dark brownish grey, aphanitic to very fine		_													
12.2 12 -		crystalline, thin to thick bedded shale, locally interlaminated to interbedded with dolostone, dolostone beds usually associated with bioturbation															
12.9 13 -		at lower contact and fossils at upper contact. -Grey dolostone bed with moderate shale content locally from about 12.2 to 12.9 m.															
]		-Moderate dolostone content below about 12.9 m.															
14 -																	
	<u>[</u>]			<u> </u>			<u> </u>				لـــا				<u>_</u>	ᆜ	Щ.

BOREHOLE LOGPROJECT:92-372BOREHOLE:48-III2 of 2HYDROGEOLOGICAL INVESTIGATIONDATE:1 October 1992TARO QUARRIES - STONEY CREEKGEOLOGISTBMHFOR:TARO AGGREGATES LTD.ELEVATION203.8 m ASL

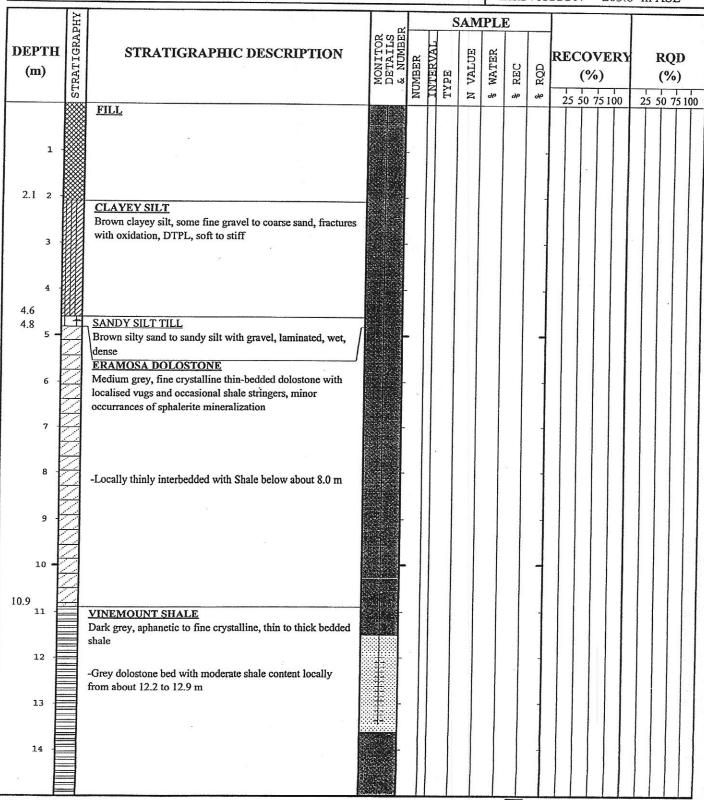
	¥		~			S	AM	PLI	E				***************************************					1
DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS NUMBER	NUMBER	INTERUAL	TYPE	N VALUE	% WATER	% REC	% RQD	L,	(% 5 50	6)	,	25	R()	_	
	- <u>-</u> -	VINEMOUNT SHALE(continued)	la IDA		$\dagger\dagger$				\vdash	_	Ιí	3 30	731	Ĭ	7	1		\dashv
16 -		-Transitional below about 15.7 m. GOAT ISLAND DOLOSTONE		-						-								
17 -		Brownish grey to grey, fine crystalline, medium	l #	ŀ	П													
17.7		bedded dolostone, minor shale content locally, trace occurrences of thin gypsum seams. Occasional shale	ŧ															
18.3 18 -		stringers and gypsum nodules to about 17.7 m. 1-1 cm well formed gypsum seam at about 17.3 m.			Ц					-		\perp	_			_	Ш	_
		SHALE Dark brownish grey, medium bedded shale, interlaminated with dolostone, bioturbation at upper contact. Borehole terminated at 18.25 m in shale. NOTE: Stratigraphy inferred from adjacent borehole 48-I. Borehole cored directly to 18.25 m, logged to confirm contacts and for monitor placement.																

BOREHOLE LOGPROJECT: 92-372BOREHOLE: 48-IV 1 of 1HYDROGEOLOGICAL INVESTIGATIONDATE: 2 October 1992TARO QUARRIES - STONEY CREEKGEOLOGIST BMHFOR: TARO AGGREGATES LTD.ELEVATION 203.8 m ASL

FUR:	* * * * * *	RO AGGREGATES LTD.			_									203.0				
	STRATIGRAPHY		K oi m K	_	77	S	AM	PLI	3									
DEPTH	IGR	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS NUMBER	R.	INTERUAL		UALUE	WATER	o	Ω	RI			ERY			QD	
(m)	₹ TH		Ž H *	NUMBER		TYPE	2	E.	REC	ROG	L		%)			(%	6) —	
	STE		<u> </u>	ž	Ħ	۴	z	*	×	*	2	5 5	7	5 100	25	5 50	75 1	00
	₩	FILL Brown clayey silt, some fine gravel to coarse sand,																
		fractures with oxidation, DTPL, soft to stiff.																
1	₩			Ī						-	1							
											l		Ì					
2.1 2	₩		-	ŀ						٠ -	ł							1
		CLAYEY SILT Brown clayey silt, laminated, DTPL to APL, stiff.																
3		-Fractures with oxidation to about 3.6 m.		-														
,																		
4.6																		
4.8		SILTY SAND TILL																
5 -		Brown silty sand to sandy silt with gravel, laminated, wet, dense.								-								
-		ERAMOSA DOLOSTONE																
6		Brownish grey, fine crystalline, thin to thick bedded		ŀ							1							
		dolostone, numerous shale stringers, occasional vugs and gypsum nodules, minor occurrence of sphalerite	#															
7		mineralization.	1	-							$\frac{1}{2}$							
8			#															
		-Locally thinly interbedded with shale below about 8.0 m.	1															
			1 =															
9											1							
10.0																		
		Borehole terminated at 9.96 m in dolostone.	1010111011	T	†						T				П		1	T
		NOTE: Stratigraphy inferred from adjacent borehole																
		48-I. Borehole cored directly to 9.96 m, logged to																
		confirm contacts and for monitor placement.																
1																		
L	ــــــــــــــــــــــــــــــــــــــ		.1			<u> </u>	1	1			ᆣ	لــــــــــــــــــــــــــــــــــــــ			Щ	1 :	_	٠.

Printed: 4 OCT 93

BOREHOLE LOG	PROJECT: 20-654	BOREHOLE: 48-V 1 of 2
Further Monitor Installations		DATE: 12 July 2000
Taro East and West landfills FOR: PSC		GEOLOGIST MEW
FUR: PSC		ELEVATION 203.8 m ASL



BOREHOLE LOG PROJECT: 20-654

Further Monitor Installations
Taro East and West landfills
FOR: PSC

PROJECT: 20-654

BOREHOLE: 48-V 2 of 2

DATE: 12 July 2000

GEOLOGIST MEW
ELEVATION 203.8 m ASL

TOK.	130					 	1 1	SLE	VA	110	JIN		203.8	s m	AS	L
DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	NUMBER	INTERVAL	N VALUE WW	% WATER TA	% REC	% RQD			%)	ERY		R()	6)
16.0 16		Bore hole terminated at 16.00 m in Shale.									25 50	75	100	25	50	75 100
		_														
		*														
				\perp		\bot										

BOREHOLE LOGPROJECT:92-372BOREHOLE:49-I1 of 3HYDROGEOLOGICAL INVESTIGATIONDATE:5 October 1992TARO QUARRIES - STONEY CREEKGEOLOGISTBMHFOR:TARO AGGREGATES LTD.ELEVATION207.3 m ASL

<u>}</u>			l		SAM	PLI	E					
DEPTH (m)	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	NUMBER	TYPE	N UALUE	% WATER	% REC	% RQD	 (%	ERY)	RQ (% 25 50 7)
1 -	FILL Brown clayey silt, DTPL, firm.		2	SS SS	16 23	14	73 62	_	=			
1.4	CLAYEY SILT Brown clayey silt, laminated, DTPL, stiff to very stiff.		3	SS	38	19	51	-				
3 -	-Oxidized fractures to about 3.0 m. -Becoming APL below about 3.0 m.		4		26 21	22	76 64	1				
4.0 4	ERAMOSA DOLOSTONE Brownish grey, fine crystalline, thin bedded			SS HQ	37	16	87 100 99	0 58				
5 -	dolostone, slightly weathered to about 5.2 m, locally vuggy and porous.		-					-				A
7				НQ			97	94.		Ī		
8			4	НQ			100	62				
9			- 5	НQ			100	72-				
10			- 6	НQ			94	83				•
11												
12			7	НQ			100	83-				
14	-Increasing shale content with occasional shale		8	нQ			100	96				
	stringers below about 13.9 m.											

BOREHOLE LOGPROJECT:92-372BOREHOLE:49-I2 of 3HYDROGEOLOGICAL INVESTIGATIONDATE:5 October 1992GEOLOGISTBMHFOR:TARO AGGREGATES LTD.

	≥					S	AM	PLE	<u> </u>								
DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	NUMBER	INTEROP	TYPE	VALUE	WATER	REC	ROD		(9	VE %)			RQ (%)
	5		Brant Sub - B	-	П.		z	*	*	%	2	5 50	75 1	00	25	50 7	5 100
16 -		ERAMOSA DOLOSTONE (continued) -Transitional below about 16.1 m.		10	H				99	97							A
17.2 17		VINEMOUNT SHALE		-						-							
18.1 ₁₈ -		Dark brownish grey, aphanitic to very fine crystalline, thin to medium bedded shale interlaminated to interbedded with dolostone, moderate dolostone content below about 20.6 m.		11	F	4Q			78	64						•	
19 -		-Grey dolostone bed encountered from about 18.1 to 18.7 m, moderated shale content locally.		- 12 13					26 100	0 - 56				1			
20 -				14	1	HQ.			96	61						A	
21				15	H	IQ.			100 100	100							
22.7		-Transitional below about 22.1 m.		-						-							
23		GOAT ISLAND DOLOSTONE Brownish grey to grey, fine crystalline, thin to medium bedded dolostone, locally minor shale		_													
23.7 24 24.4		content, trace occurrences of sphalerite mineralization. Occasional shale stringers to about		17		HO			98	92				•			A
25 -		123.7 m. 1-1 cm gypsum seam, slightly weathered at about 23.3 flum.							30	-							
26		Dark brownish grey, medium bedded shale, interlaminated with dolostone, bioturbation at upper contact. -Fractured zone from about 25.3 to 25.6 m.		-													
27		-Becoming medium to massive bedded below about 26.0 m.		18		HQ			99	99				•			
28																	
29				19		HQ			100	95							
L	150			<u> </u>	41			Ц						Щ.	щ		

BOREHOLE LOGPROJECT:92-372BOREHOLE:49-I3 of 3HYDROGEOLOGICAL INVESTIGATIONDATE:5 October 1992TARO QUARRIES - STONEY CREEKGEOLOGISTBMHFOR:TARO AGGREGATES LTD.ELEVATION207.3 m ASL

101.		RO AGGREGATES ETD.						1 -	عابات	V A	110	1	207.3	m	AS	<u> </u>
	ЯН			Ļ	_	S	AM	[PL]	E							
DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS	NUMBER	INTERUAL	TYPE	N VALUE	% WATER	% REC	% RQD		(%)	ERY		RQ (% 50 7	
31 -		-Becoming siliceous below about 30.0 mIncreasing chert and more siliceous below about 30.5 m.								-						
32 - 33 -		ANCASTER CHERT BEDS Brownish grey, very fine crystalline, medium to massive bedded siliceous dolostone with numerous chert nodules and layers, occasional shale stringers.		_ 2 0		НQ			100	96 ₋						
34 - 35 -		-Fractured zone from about 34.0 to 34.1 mTransitional below about 34.8 m with increasing occurrences of shale stringers.		- -21		нQ			100	100						
35.6 36 - 36.5 37 -		GASPORT DOLOSTONE Blue grey to buff, coarse crystalline, thin to medium bedded dolostone, porous. DECEW DOLOSTONE Grey, fine crystalline, thin to medium bedded dolostone thinly interbedded with shale.								1	,					
		Borehole terminated at 37.90 m in dolostone interbedded with shale.														

Jackman Geoscience Inc.

96 Newcombe Road. Dundas ON

Monitor Completion Date: October 10, 2008

Drilling method - Mud Rotary

Borehole Log Report

Project: Newalta Corporation

Location: Newalta Hamilton (Stoney Creek) Landfills

Log of Monitor - 49-IR

Drilling Contractor - Lantech Drilling Services Inc.

Depth (m) Depth (ft)	Monitor details	Geologic Unit	Unit Description
00			
		clayey silt till	Clayey Silt Till: Brown clayey silt, DTPL, firm
5——10	10—		
20	20—	eramosa	Earamosa Dolostone: Brownish grey, fine crystalline, thin bedded dolostone,
10-30	30—	dolostone	locally vuggy and porous. Lost circulation at 5.1m, mineralized fracture noted at this depth.
15——40	40—		
15——50	50	vinemount	Vinemount Shale: Dark brownish grey, aphanitic to very fine crystalline, thin to
		∖shale ∖VFZ	\ medium bedded shale interlaminated to interbedded with dolostone. \ Vinemount Flow Zone: Grey dolostone bed, moderated shale content locally
20———60	60-	vinemount2	Vinemoount Shale continued: Moderate dolostone content below about 18.8Transitional below about 22.1
70	70 —	UFZ shale	Goat Island Dolostone: Brownish grey to grey, fine crystalline, thin to medium bedded dolostone, locally minor shale content, trace occurrences of sphalerite mineralization. Occasional shale stringers to about 21.83 m1 cm gypsum
80	80 —	UMFZ	seam, slightly weathered Shale: Dark brownish grey, medium bedded shale, interlaminated with dolostone, bioturbation at upper contact
25	90—	goat island dolostone	Goat Island Dolostone: Fractured zone from about 23.5 to 23.8. Becoming medium to massive bedded below about 26.0 mBecoming siliceous below about 30.0 mIncreasing chert and more siliceous below about 30.5 m.
	The state of the s	3010010110	Goat Island Dolostone: Becoming medium to massive bedded below about 25m. Becoming siliceous below about 28.0m.
30100	100	ancaster chert beds	Ancaster Chert Beds: Brownish grey, very fine crystalline, medium to massive bedded siliceous dolostone with numerous chert nodules and layers, occasional shale stringers.
-		LFZ	Ancaster Chert Beds: Fractured zone from about 32.0 to 32.1 m.

Ground Surface Elevation - 205.99 asl. Top of Casing/Measuring Point - 206.59 asl. Prepared by W. Jackman, P.Geo.

Borehole Diameter - 10.16 cm Casing Diameter - 5.08 cm Screen Slot Size - N/A BOREHOLE LOGPROJECT:92-372BOREHOLE:49-II1 of 2HYDROGEOLOGICAL INVESTIGATIONDATE:7 October 1992TARO QUARRIES - STONEY CREEKGEOLOGISTBMHFOR:TARO AGGREGATES LTD.ELEVATION207.3 m ASL

	¥				S	AM	PLI	<u> </u>		Γ					
DEPTH (m)	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	NUMBER	INTERVAL	TYPE	N VALUE	% WATER	% REC	% RQD		(%)	ERY	 RQ (%	
1 -	FILL Brown clayey silt, DTPL, firm.		-						_						
2 -	CLAYEY SILT Brown clayey silt, laminated, DTPL, stiff to very stiff. -Oxidized fractures to about 3.0 m.								-						
4.0 4 -	-Becoming APL below about 3.0 m. ERAMOSA DOLOSTONE		-						- - - -						
5 -	Brownish grey, fine crystalline, thin bedded dolostone, slightly weathered to about 5.2 m, locally vuggy and porous.		-						_						
6 -			-						-						
7 -									_						
8 -									-						
9 -			_						-						
10 -									-						
11 -									-						
12 -									-						
13 -									-						
14	-Increasing shale content with occasional shale stringers below about 13.9 m.													•	

Printed: 4 OCT 93

BOREHOLE LOGPROJECT:92-372BOREHOLE:49-II2 of 2HYDROGEOLOGICAL INVESTIGATIONDATE:7 October 1992TARO QUARRIES - STONEY CREEKGEOLOGISTBMHFOR:TARO AGGREGATES LTD.ELEVATION207.3 m ASL

								<u>. </u>					207.			
1	ŀÈ			ĺ		S	AM	PLI	3							
DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	NUMBER	INTERUAL	TYPE	VALUE	WATER	REC	RQD	RE	CO'	VERY	ď	R()	
ļ	ST			ž	Ħ	F	z	×	×	×	25	50	75 100	25	50	75 100
16 -		ERAMOSA DOLOSTONE (continued) -Transitional below about 16.1 m.		-						-						
18.1 ₁₈ - 18.7		VINEMOUNT SHALE Dark brownish grey, aphanitic to very fine crystalline, thin to medium bedded shale interlaminated to interbedded with dolostone, moderate dolostone content below about 20.6 m. -Grey dolostone bed encountered from about 18.1 to 18.7 m, moderated shale content locally.		-						-						
20 - 21 -				-						_						
22 -		-Transitional below about 22.1 m. GOAT ISLAND DOLOSTONE		-						-						
23 - 23.7 24 - 24.4		Brownish grey to grey, fine crystalline, thin to medium bedded dolostone, trace occurrences of sphalerite mineralization. Occasional shale stringers to about 23.7 m.		•						-						
25 - 26 - 26.4		SHALE Dark brownish grey, medium bedded shale, interlaminated with dolostone, bioturbation at upper contactFractured zone from about 25.3 to 25.6 m.														
		Borehole terminated at 26.38 m in dolostone. NOTE: Stratigraphy inferred from adjacent borehole 49-I. Borehole cored directly to 26.38 m, logged to confirm contacts and for monitor placement.														

BOREHOLE LOGPROJECT: 92-372BOREHOLE: 49-III 1 of 2HYDROGEOLOGICAL INVESTIGATIONDATE: 8 October 1992TARO QUARRIES - STONEY CREEKGEOLOGIST BMHFOR: TARO AGGREGATES LTD.ELEVATION 207.3 m ASL

LFOR:		NO AGGREGATES LTD.									101		207			
	主		n,			S	AM	PLI	3							
DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	NUMBER	INTERUAL	TYPE	N VALUE	% WATER	% REC	א מפס		(%	ERY) 5 100		RQ:	
	***	FILL			Ħ									Т		
1.4		Brown clayey silt, DTPL, firm. CLAYEY SILT		-						-						
2 -		Brown clayey silt, laminated, DTPL, stiff to very stiffOxidized fractures to about 3.0 mBecoming APL below about 3.0 m.		•		:				-						
4.0 4 -		ERAMOSA DOLOSTONE		-						-						
5		Brownish grey, fine crystalline, thin bedded dolostone, slightly weathered to about 5.2 m, locally vuggy and porous.		-						-						
6 -				-						-						
8 -				·						-						
9 -										-						
10 -				-						-						
11 -																
13 -										-						
14 -		-Increasing shale content with occasional shale stringers below about 13.9 m.		•						-						

BOREHOLE LOGPROJECT:92-372BOREHOLE:49-III2 of 2HYDROGEOLOGICAL INVESTIGATIONDATE:8 October 1992TARO QUARRIES - STONEY CREEKGEOLOGISTBMHFOR:TARO AGGREGATES LTD.ELEVATION207.3 m ASL

		-							1 1	IIOI		.07.3	m	ASI	
主					S	AM	PLI	E	-						
(m) PATA DI LA PATA DI	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	NUMBER	INTERUAL		N VALUE	% WATER	x REC	% RQD		(%)			RQ (%	
16	ERAMOSA DOLOSTONE (continued) -Transitional below about 16.1 m. VINEMOUNT SHALE Dark brownish grey, aphanitic to very fine crystalline, thin to medium bedded shale interlaminated to interbedded with dolostone, moderate dolostone content below about 20.6 m. -Grey dolostone bed encountered from about 18.1 to 18.7 m, moderated shale content locally. -Transitional below about 22.1 m. GOAT ISLAND DOLOSTONE Brownish grey to grey, fine crystalline, thin to medium bedded dolostone, trace occurrences of sphalerite mineralization. Occasional shale stringers to about 23.7 m. -1 cm gypsum seam, slightly weathered at about 23.3 m. Borehole terminated at 23.74 m in dolostone. NOTE: Stratigraphy inferred from adjacent borehole 49-I. Borehole cored directly to 23.74 m, logged to confirm contacts and for monitor placement.										50 75			50 7	5 100

BOREHOLE LOGPROJECT: 92-372BOREHOLE: 49-IV 1 of 2HYDROGEOLOGICAL INVESTIGATIONDATE: 8 October 1992TARO QUARRIES - STONEY CREEKGEOLOGIST BMHFOR: TARO AGGREGATES LTD.ELEVATION 207.3 m ASL

		CO AGGREGATES ETD.				S	AM	PLI	3		Γ				T		
DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	NUMBER	INTERUAL	ТҮРЕ	N VALUE	% WATER	% REC	% RQD		(%	ER'	<u> </u>	QD %)	
1 -		FILL Brown clayey silt, DTPL, firm.		-						-							
2 -		CLAYEY SILT Brown clayey silt, laminated, DTPL, stiff to very stiff. -Oxidized fractures to about 3.0 m.		-						-							
4.0 4 -		-Becoming APL below about 3.0 m. ERAMOSA DOLOSTONE		-													
5		Brownish grey, fine crystalline, thin bedded dolostone, slightly weathered to about 5.2 m, locally vuggy and porous.		-						_							
6 -										-							
7 -																	
8 -				-													
9 -																	
10 -																	
11 -			###														
13 -			***************************************								-						
13.9																	\perp
		Borehole terminated at 13.85 m in dolostone.															
		NOTE: Stratigraphy inferred from adjacent borehole 49-I. Borehole cored directly to 13.85 m, logged to															

BOREHOLE LOGPROJECT:92-372BOREHOLE:49-IV2 of 2HYDROGEOLOGICAL INVESTIGATIONDATE:8 October 1992TARO QUARRIES - STONEY CREEKGEOLOGISTBMHFOR:TARO AGGREGATES LTD.ELEVATION207.3 m ASL

	Ή			Ĺ		S	SAM	(PL)	E						T			\exists
DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS L NUMBER	NUMBER	INTERUAL	TYPE	1 UALUE	% WATER	, REC	RQD	_	(%)			(QD %)	\dashv
	S	confirm contacts and for monitor placement.		12	П	_	Z	×	×	*	2	5 5	0 7	5 100	12	5 50	75 1	100

BOREHOLE LOG	PROJECT: 99-651.2	BOREHOLE: 49-V 1 of 2
Taro East and West Landfills		DATE: 15 July 1999
Stoney Creek, Ontario		GEOLOGIST LM
FOR: Philip Services Inc.		ELEVATION 207.2 m ASL

FILL Brown clayey silt, DTPL, firm.	FOR: P	Philip Services Inc.								HON		MASL
FILL Brown clayey silt, DTPL, firm.	6	Н	C.		S	AM	PLI	E	1 a .	0		
EILL Brown clayey silt, DTPL, firm. CLAYEY SILT Brown clayey silt, laminated, DTPL, stiff to very stiff. ERAMOSA DOLOSTONE Brownish grey, fine crystalline, thin bedded dolostone, slightly weathered to about 5.2 m, locally vuggy and porous. HQ 100 72 HQ 100 69 HQ 100 49 HQ 100 92 HQ 100 92	DEPTH (m)	STRATIGRAPHIC DESCRIPTION STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBE	NUMBER	TYPE			1 1	RQD		(%)	RQD (%) 25 50 75 10
CLAYEY SILT Brown clayey silt, laminated, DTPL, stiff to very stiff. 2 BRAMOSA DOLOSTONE Brownish grey, fine crystalline, thin bedded dolostone, slightly weathered to about 5.2 m, locally vuggy and porous. 6 7 8 9 15 HQ 100 69 1100 49 46 HQ 100 92 11 12 7 HQ 100 95 HQ 100 97 11 12 7 HQ 100 97 100 98	1 -8						8					
## Add Company of the	1.4	CLAYEY SILT Brown clayey silt, laminated, DTPL, stiff to very stiff.		-					15			
ERAMOSA DOLOSTONE Brownish grey, fine crystalline, thin bedded dolostone, slightly weathered to about 5.2 m, locally vuggy and porous. 6 3 HQ 100 69 4 HQ 100 49 8 9 6 HQ 100 92 11 12 7 HQ 100 73	3 -											
6	7.2	Brownish grey, fine crystalline, thin bedded dolostone,		1 2	HQ HQ			100		-		
8 9 10 6 HQ 100 92 11 12 7 HQ 100 73		Singilary weathered to accurate my recently reggy and personal		- 3	HQ			100	69		-	
9 10 10 10 10 10 10 10 10 10 10 10 10 10	7			4	НQ			100	49	8 2	-	
10 - 66 HQ 100 92 11 12 7 HQ 100 73 13 13 14 15 16 HQ 100 98								100	92			
11	10 -							100	-			
13 8 HO 100 98	11			6	HQ			100	92			
8 HO 100 98				7	HQ			100	73			
	14		te se se se se se se se se se se se se se	8	НQ			100	98			

BOREHOLE LOG	PROJECT: 99-651.2	BOREHOLE: 49-V 2 of 2
Taro East and West Landfills		DATE: 15 July 1999
Stoney Creek, Ontario		GEOLOGIST LM
FOR: Philip Services Inc.		ELEVATION 207.2 m ASL

	HY		ᆀ	4	S	AM	PLI	3							
DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION NONTHEAD STRATIGNAME STRATIGRAPHIC DESCRIPTION	& NUMBE	NUMBER	TYPE	VALUE	WATER	REC	RQI		(%			RQ (%)
5	ST					Z	96	9₽	96	25	50 7	5 100	25	50 7	5 100
16 -		ERAMOSA DOLOSTONE (continued)		9	HQ			100	95						
17.2 ¹⁷ -		VINEMOUNT SHALE		10	HQ		Are transferred for the first of the first o	100	99			•			
18 -		Dark grey, aphanitic to fine crystalline, thin bedded shaleGrey dolostone bed encountered from about 18.1 to 18.7 m.			HQ	33		100	88						•
19.8				12	HQ		-	100		_	_	LĪ.		-	
		Borehole terminated at 19.81 m in shale. Stratigraphy inferred from adjacent borehole 49-1.													

BOREHOLE LOGPROJECT: 92-372BOREHOLE: 50-1 1 of 2HYDROGEOLOGICAL INVESTIGATIONDATE: 14 October 1992TARO QUARRIES - STONEY CREEKGEOLOGIST BMHFOR: TARO AGGREGATES LTD.ELEVATION 207.2 m ASL

FOR:	1 // 1	RO AGGREGATES LTD.								ION		II ASL	
	\		~		S	AM	PLF	2					
DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	NUMBER	TYPE	N VALUE	% WATER	% REC	% RQD		OVER (%)	RQ] (%))
1 -		CLAYEY SILT Brown to grey brown clayey silt, numerous oxidized fractures, APL, soft to stiff.		1 2	SS SS	18	29 22	98 67	-				
2 -		-Becoming WTPL below about 1.9 m.		3		22	23	67					
3 -		-Becoming laminated below about 2.3 m.		4		25 16	31	67 80					
4 -				- 6		16	24	71	-				
4.5		ERAMOSA DOLOSTONE Brownish grey, fine crystalline, thin to medium bedded dolostone, occasional shale stringers and		7	SS HQ	20/ 0.08n	18 h	22 100	81_				•
6		vugs, locally porous.-Fine to medium crystalline and porous to about 4.7 m.		- 2	НQ			100	77				
7 -									-				
8 -													
9 -				3	НQ			100	73				
10 -				- N					-				
11				-									
12		-		4	нQ			98	85				•
13													
14													

BOREHOLE LOGPROJECT:92-372BOREHOLE:50-I2 of 2HYDROGEOLOGICAL INVESTIGATIONDATE:14 October 1992TARO QUARRIES - STONEY CREEKGEOLOGISTBMHFOR:TARO AGGREGATES LTD.ELEVATION207.2 m ASL

		RO AGGREGATES LTD.						ــــــــــــــــــــــــــــــــــــــ			1101		201.			
	ΗY		n			S	AM	[PL]	E							
DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	NUMBER	INTERUAL	TYPE	N VALUE	. WATER	REC	RQ		(%			RQ)
	S	PPAMOSA DOLOSTONIP	Marketon to the coll	-	K			×	*	*	25	50 7	5 100	25	50 7	5 100
16 -		ERAMOSA DOLOSTONE (continued) -Increasing occurrence of shale stringers below about 15.6 m.		-		НQ			100	98						
17 -				-		НQ				-						
18 - 18.8		VINEMOUNT SHALE Dark brownish grey, aphanitic to very fine crystalline, medium bedded shale, interlaminated to		6	THE PLANTS	нQ			100	96						4
19		locally interbedded with dolostone, dolostone beds usually associated with bioturbation at lower contact		-						-						
19.6	\equiv	and fossils at upper contact.														
20 –		Grey dolostone bed from about 18.8 to 19.6 m, moderate shale content locally.		_						_						
21 -				7		НQ			98	90						A
22				•												
23.1 23		-Transitional below about 22.6 m. GOAT ISLAND DOLOSTONE	***********	8		нQ			100	99						
24.1 24		Brownish grey, fine crystalline, thin to medium bedded dolostone, occasional shale stringers and gypsum nodules, minor shale content, trace fossils.	##	-												
24.8 25 -		SHALE Dark brownish grey, medium bedded shale, interlaminated with dolostone, bioturbation at upper contact.		9		HQ			92	92						
26.1 26	4			-	N											
		Borehole terminated at 26.10 m in dolostone.														

BOREHOLE LOGPROJECT: 92-372BOREHOLE: 50-II 1 of 2HYDROGEOLOGICAL INVESTIGATIONDATE: 15 October 1992TARO QUARRIES - STONEY CREEKGEOLOGIST BMHFOR: TARO AGGREGATES LTD.ELEVATION 207.2 m ASL

		RO AGGREGATES ETD.	7	_													
	РΗΥ		αα	L	7	S	AM	PLI	3								
DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	NUMBER	INTERUAL	TYPE	UALUE	WATER	REC	RQD	RE	CO'	VER	RY		QD %)	
	STR			₹	F	7	z	×	×	×	2!	5 50	75 10	0	25 5	75 1	00
1 -		CLAYEY SILT Brown to grey brown clayey silt, numerous oxidized fractures, APL, soft to stiff.															
2 -		-Becoming WTPL below about 1.9 mBecoming laminated below about 2.3 m.		-						-							
4 -				-						_							
5 -		ERAMOSA DOLOSTONE Brownish grey, fine crystalline, thin to medium bedded dolostone, occasional shale stringers and vugs, locally porous.		L						_							
6 -		-Fine to medium crystalline and porous to about 4.7 m.						;		-							
7 -										-							
8 -										-							
9 -				-						-							
10 -				-						-							
11 -			*******	_						-							
12 -			HHHHH							-							
13 -			***************************************														
' 14 - 										-							

BOREHOLE LOGPROJECT:92-372BOREHOLE:50-II2 of 2HYDROGEOLOGICAL INVESTIGATIONDATE:15 October 1992TARO QUARRIES - STONEY CREEKGEOLOGISTBMHFOR:TARO AGGREGATES LTD.ELEVATION207.2 m ASL

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DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	NUMBER	INTERUAL		N VALUE	% WATER	% REC	% RQD		(%)	ER'		(QI (%)	
16.9		ERAMOSA DOLOSTONE (continued) -Increasing occurrence of shale stringers below about 15.6 m.	***************************************	-						_								
16.9		Borehole terminated at 16.90 m in dolostone. NOTE: Stratigraphy inferred from adjacent borehole 50-I. Borehole cored directly to 16.90 m, logged to confirm contacts and for monitor placement.																

BOREHOLE LOGPROJECT:92-372BOREHOLE:51-I1 of 3HYDROGEOLOGICAL INVESTIGATIONDATE:26 October 1992TARO QUARRIES - STONEY CREEKGEOLOGISTBMHFOR:TARO AGGREGATES LTD.ELEVATION207.8 m ASL

	¥		or or			S	AM	PLI	3		Γ				Π			٦
DEPTH	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	~	E		F	ä			RI	E C (οv	ERY		RÇ	D	
(m)	RATI		MONJ META	NUMBER	INTERUA	TYPE	VALUE	WATER	REC	RQD			(%)			(%		
	STF				ш		z	×	*	×	2	5 5	0 7	100	25	50	75 100	
0.7	▓	FILL Brown clayey silt, trace sand, fractures with		1		SS	18	22	50									
1		oxidation, APL, stiff.		2		SS	33	18	56									
		CLAYEY SILT Brown to grey brown clayey silt, occasional fine												.				
2 -		gravel, trace sand, fractured with orange and black oxidation, APL, very stiff to hard.		3		SS	49	16	78				Ī					
_		ordanion, in 2, voly blin to hard.		4		SS	23	20	78									
3 -										_								
3.5				5		SS	23	21	78					'				
4.2 4		CLAYEY SILT TILL Brown clayey silt with fine sand, occasional fine		6		SS	37	12	66	_								
1.2	////	gravel, APL, hard.		1		HQ			100	51				Ė		\		
5 -		ERAMOSA DOLOSTONE Brownish grey, fine crystalline, thin to medium		_ 2 _		HQ			99	76 -				Ī				
		bedded dolostone, occasional shale stringers, locally porous, minor occurrences of small vugs.																
- 6 -		-Highly fractured to about 4.7 m.								-								
		-Shale stringers weathered to about 9.2 m.																
7				_		НQ				_								
					À	щО			100	62				 				İ
8 -						110			100	02								l
																		ļ
9										_								
10 -					M					_								
"							,											
11				4		HQ			100	78			Ì					1
12										_								
'-														ŀ				
13										_				İ				İ
14				5		НQ			100	88				T				
, 14		-Locally thinly interbedded with shale below about								_								
		14.4 m.																

BOREHOLE LOGPROJECT:92-372BOREHOLE:51-I2 of 3HYDROGEOLOGICAL INVESTIGATIONDATE:26 October 1992TARO QUARRIES - STONEY CREEKGEOLOGISTBMHFOR:TARO AGGREGATES LTD.ELEVATION207.8 m ASL

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	ן <u>בֿ</u>		~	L		S	AM	PL	E			İ		
DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	NUMBER	INTERUAL	TYPE	VALUE	WATER	REC	R O	RECOVER			RQD (%)
<u> </u>	'n			z	Ц	-	z	*	×	×	25 50 75 10	0	25 5	0 75 100
16 -		-Thin vertical fracture with gypsum infilling from about 14.5 to 15.2 m.		_	H		-			_				
17 -				-					100	87				
		VIDIO COLDING CIVAL D			M	ł								
18 -	긐	YINEMOUNT SHALE Dark brownish grey, aphanitic to very fine		-	M	- 1				-				.
18.5		crystalline, thin to medium bedded shale,			M									.
19.1 19 -		interlaminated to interbedded with dolostone below about 20.1 m, dolostone beds usually associated with bioturbation at lower contact and fossils at upper			H					_				
20 -		contactDolostone bed from about 18.5 to 19.1 m, moderate shale content locally .		- ⁷	H	[Q]			100	95				
21 -								·						
22 -										-				
22.8	\equiv			8	Ñ.,	.								
23 -	4	GOAT ISLAND DOLOSTONE		8	ЯH	Q			100	92				
	4	Brownish grey to grey, fine crystalline, thick bedded			W								1 1	
24.0		dolostone, occasional shale stringers to about 24.0 m,			W					ı				
24.0 24	==	trace fossils.			N					-		1		
24.6	3	SHALE Dark brownish grey, medium bedded shale, slightly												
25 -		contact.		Ð	X1									
26 -		-Thin bedded from about 24.6 to 26.6 mFractured zone from about 25.3 to 26.6 m.	-	9	Н	Q			100	99				
27			-											
28														
29				10	H	Q			100					
				- 18	N .	_L			_			_L		

BOREHOLE LOGPROJECT: 92-372BOREHOLE: 51-I 3 of 3HYDROGEOLOGICAL INVESTIGATIONDATE: 26 October 1992TARO QUARRIES - STONEY CREEKGEOLOGIST BMHFOR: TARO AGGREGATES LTD.ELEVATION 207.8 m ASL

	בו		~			S	AM	PLI	<u> </u>							
DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	NUMBER	INTERUAL	TYPE	N VALUE	% WATER	% REC	ж RQD	(9	VE %) 751		 R()	b)	00
30.2		ANCASTER CHERT BEDS														ŀ
31 -		Brownish grey to light brown, fine to very fine crystalline, medium bedded siliceous dolostone with numerous chert nodules and layers, minor occurrences of sphalerite mineralization usually								-						
32 - 33 -		associated with chert.		- 11		HQ			99	91-					4	
34 -		-Fracture encountered at about 34.0 m.	#######							_						
35 - 35.5		-Becoming transitional with decreasing chert below about 34.9 m.		-12		нQ			99	99-						
- . 36 -		GASPORT DOLOSTONE Buff to blue grey, coarse crystalline, medium bedded		L												
3 6.6		dolostone, porous, some fossils.			N										1	
30.0		Borehole terminated at 36.63 m in dolostone.			$\dagger \dagger$						\neg	1	П	\top	T	

BOREHOLE LOGPROJECT:92-372BOREHOLE:51-II1 of 2HYDROGEOLOGICAL INVESTIGATIONDATE:27 October 1992TARO QUARRIES - STONEY CREEKGEOLOGISTBMHFOR:TARO AGGREGATES LTD.ELEVATION207.8 m ASL

	<u></u>		Ī		S	AM	PL	E							 一
DEPTH (m)	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	NUMBER	INTERUAL	TYPE	N VALUE	% WATER	% REC	% RQD		6)	RY 00	r	RQ (%	00
0.7	FILL Brown clayey silt, trace sand, fractures with oxidation, APL, stiff.														
1	CLAYEY SILT Brown to grey brown clayey silt, occasional fine								_						
2	gravel, trace sand, fractured with orange and black oxidation, APL, very stiff to hard.		-						-						
3.5			-						-						
4.2 4	CLAYEY SILT TILL Brown clayey silt with fine sand, occasional fine gravel, APL, hard.		-						-						
5 -	Brownish grey, fine crystalline, thin to medium bedded dolostone, occasional shale stringers, locally		-						1						
6	porous, minor occurrences of small vugs. -Highly fractured to about 4.7 m. -Shale stringers weathered to about 9.2 m.		-						_						
7															
8			-						-						
9															
10 -			-												
11									-						
12									-						
13															
14															
	-Locally thinly interbedded with shale below about 14.4 m.														

HYDROGEOLOGICAL INVESTIGATION
TARO QUARRIES - STONEY CREEK
FOR: TARO AGGREGATES LTD.

BOREHOLE: 51-II 2 of 2

DATE: 27 October 1992
GEOLOGIST BMH
ELEVATION 207.8 m ASL

FOR:	IA	RU AGGREGATES LTD.							LE	V Д.	101		207.0	- 111	<u> </u>	
	È		~			S	AM	PLI	Ξ							
DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	NUMBER	INTERUAL	TYPE	N VALUE	% WATER	% REC	% RQD		(%	ERY)		RQI (%))
16 - 17 - 17.7 18 - 18.5 19.1 19 -		Thin vertical fracture with gypsum infilling from about 14.5 to 15.2 m. YINEMOUNT SHALE Dark brownish grey, aphanitic to very fine crystalline, thin to medium bedded shale, interlaminated to interbedded with dolostone below about 20.1 m, dolostone beds usually associated with bioturbation at lower contact and fossils at upper contact. -Dolostone bed from about 18.5 to 19.1 m, moderate shale content locally.								-						
22 - 22.8 23 - 24.0 24 - 24.6 25 - 26 - 26.8		GOAT ISLAND DOLOSTONE Brownish grey to grey, fine crystalline, thick bedded dolostone, occasional shale stringers to about 24.0 m, trace fossils. -5 mm well formed gypsum seam at about 23.5 m. SHALE Dark brownish grey, medium bedded shale, slightly laminated with dolostone, bioturbation at upper contact. -Thin bedded from about 24.6 to 26.6 m. -Fractured zone from about 25.3 to 26.6 m. Borehole terminated at 26.77 m in dolostone.		-						-						
		NOTE: Stratigraphy inferred from adjacent borehole 51-I. Borehole cored directly to 26.77 m, logged to confirm contacts and for monitor placement.														

BOREHOLE LOGPROJECT:92-372BOREHOLE:51-III1 of 2HYDROGEOLOGICAL INVESTIGATIONDATE:29 October 1992TARO QUARRIES - STONEY CREEKGEOLOGISTBMHFOR:TARO AGGREGATES LTD.ELEVATION207.8 m ASL

	H	O _C			S	AM	PLI	E		Γ							
DEPTH (m)	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	NUMBER	INTERUAL	TYPE	VALUE	WATER	REC	RQD		(%)				QD %)	
			ž	Ħ	F	z	*	×	×	Ŀ	5 50	75	100	2	5 50	7 5 1	.00
0.7	FILL Brown clayey silt, trace sand, fractures with oxidation, APL, stiff.	\mathcal{L}															
	CLAYEY SILT Brown to grey brown clayey silt, occasional fine gravel, trace sand, fractured with orange and black																
2 -	oxidation, APL, very stiff to hard.																
3.5	CLAYEY SILT TILL	_							-								
4.2 4	Brown clayey silt with fine sand, occasional fine gravel, APL, hard.	/ : 							-								
5 -	Brownish grey, fine crystalline, thin to medium bedded dolostone, occasional shale stringers, locally		_						-								
6 -	porous, minor occurrences of small vugs. -Highly fractured to about 4.7 m. -Shale stringers weathered to about 9.2 m.								-								
7																	
8 -									-								
9 -									4								
10 -			_														
11			-						-								
12			-														
13			-						-								
14			_														
	-Locally thinly interbedded with shale below about 14.4 m.																

BOREHOLE LOGPROJECT: 92-372BOREHOLE: 51-III 2 of 2HYDROGEOLOGICAL INVESTIGATIONDATE: 29 October 1992TARO QUARRIES - STONEY CREEKGEOLOGIST BMHFOR: TARO AGGREGATES LTD.ELEVATION 207.8 m ASL

DEPTH	PHY			T							T		 	
DEPTH	וםן		l ~	L		S	AM	PLI	E					
(m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	NUMBER	INTERUAL	TYPE	N VALUE	% WATER	% REC	% RQD	(VERY %) 75 100	RQI (%)	1
16 - 17 - 17.7		-Thin vertical fracture with gypsum infilling from about 14.5 to 15.2 m.		_						-				
18.5 19.1 19 - 20 -		VINEMOUNT SHALE Dark brownish grey, aphanitic to very fine crystalline, thin to medium bedded shale, interlaminated to interbedded with dolostone below about 20.1 m, dolostone beds usually associated with bioturbation at lower contact and fossils at upper contact. -Dolostone bed from about 18.5 to 19.1 m, moderate shale content locally.		-						-				
22 - 22.8 23 -		GOAT ISLAND DOLOSTONE Brownish grey to grey, fine crystalline, thick bedded dolostone, occasional shale stringers to about 24.0 m, trace fossils.		-						-				
		-5 mm well formed gypsum seam at about 23.5 m. Borehole terminated at 24.06 m in dolostone. NOTE: Stratigraphy inferred from adjacent borehole 51-I. Borehole cored directly to 24.06 m, logged to confirm contacts and for monitor placement.												

BOREHOLE LOG	PROJECT: 92-372	BOREHOLE: 51-IV 1 of 2
HYDROGEOLOGICAL INVESTIGAT	ION	DATE: 2 November 1992
TARO QUARRIES - STONEY CREE	K	GEOLOGIST BMH
FOR: TARO AGGREGATES LTD.		ELEVATION 207.8 m ASL

					_								207				
						S	AM	PLI	E								
DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	NUMBER	INTERUAL	TYPE	UALUE	WATER	REC	RQD	RE(CO' (%	VER'	Y		QD %)	
	S			₹	Ħ	_	z	×	×	×	25	50 '	75 1 0 0	2	5 50	75.1	50
0.7		FILL Brown clayey silt, trace sand, fractures with oxidation, APL, stiff. CLAYEY SILT								_							
2 -		Brown to grey brown clayey silt, occasional fine gravel, trace sand, fractured with orange and black oxidation, APL, very stiff to hard.		-						-							
3.5		CLAYEY SILT TILL		-						_							
4.2 4		Brown clayey silt with fine sand, occasional fine gravel, APL, hard. ERAMOSA DOLOSTONE								_							
5 -		Brownish grey, fine crystalline, thin to medium bedded dolostone, occasional shale stringers, locally porous, minor occurrences of small vugs.		-						-							
6		-Highly fractured to about 4.7 mShale stringers weathered to about 9.2 m.															
7										-							
8 -																	
9			-														
10 -			_	.													
11			-														
12			-														
13			-														
14		-Locally thinly interbedded with shale below about	-														
<u> </u>		14.4 m.															

BOREHOLE LOGPROJECT:92-372BOREHOLE:51-IV2 of 2HYDROGEOLOGICAL INVESTIGATIONDATE:2 November 1992TARO QUARRIES - STONEY CREEKGEOLOGISTBMHFOR:TARO AGGREGATES LTD.ELEVATION207.8 m ASL

	\ \					S	AM	PLI	Ξ					T		一
DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	NUMBER	INTERUAL	TYPE	N VALUE	% WATER	% REC	א תפס	(%)	ER'		QD %) 75 1	
16 - 17 - 17.7 18 - 18.5 19.1 19 - 19.9		VINEMOUNT SHALE Dark brownish grey, aphanitic to very fine crystalline, thin to medium bedded shale, interlaminated to interbedded with dolostone below about 20.1 m, dolostone beds usually associated with bioturbation at lower contact and fossils at upper contact. -Dolostone bed from about 18.5 to 19.1 m, moderate shale content locally. Borehole terminated at 19.90 m in shale. NOTE: Stratigraphy inferred from adjacent borehole 51-I. Borehole cored directly to 19.90 m, logged to confirm contacts and for monitor placement.								-						

BOREHOLE LOG	PROJECT: 92-372	BOREHOLE: 51-V 1 of 2
HYDROGEOLOGICAL INVESTIGA	TION	DATE: 3 November 1992
TARO QUARRIES - STONEY CRE	EK	GEOLOGIST BMH
FOR: TARO AGGREGATES LTD	•	ELEVATION 207.8 m ASL

<u>}</u>		T .			S	AM	PLI	Ξ								一
DEPTH Figure 1	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	NUMBER	INTERUAL		N VALUE	% WATER	% REC	x RQD		(%)	ERY		QD %) 75 1	
0.7	FILL Brown clayey silt, trace sand, fractures with oxidation, APL, stiff.															
1 -	CLAYEY SILT Brown to grey brown clayey silt, occasional fine gravel, trace sand, fractured with orange and black oxidation, APL, very stiff to hard.								-							
3.5									-							
4.2 4	CLAYEY SILT TILL Brown clayey silt with fine sand, occasional fine gravel, APL, hard.		-						-							
5 -	ERAMOSA DOLOSTONE Brownish grey, fine crystalline, thin to medium bedded dolostone, occasional shale stringers, locally porous, minor occurrences of small vugs.		-						_							
6	-Highly fractured to about 4.7 mShale stringers weathered to about 9.2 m.		-						-							
7			-						-							
8			-						-							
9			-						-							
10 -			-						-							
11			-						-							
12		<u> </u>	-						~							
13		***************************************	_						_							
14	-Locally thinly interbedded with shale below about	***************************************	-						-							
	14.4 m.	ŧ		Ш				n		<u> </u>						

BOREHOLE LOGPROJECT:92-372BOREHOLE:51-V2 of 2HYDROGEOLOGICAL INVESTIGATIONDATE:3 November 1992TARO QUARRIES - STONEY CREEKGEOLOGISTBMHFOR:TARO AGGREGATES LTD.ELEVATION207.8 m ASL

	¥		T	SAMPLE											Т				
DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	NUMBER	INTERUAL		N UALUE	% WATER	% REC	% RQD	RECOVERY (%)					RQD (%) 25 50 75 100			ı
	S	This vertical fracture with infilling	 	بُ	Д			•`	· `	<u> </u>	2	5 5	U 7	5 100	٧ļ	25	50 1	75 10	00
15.4		Thin vertical fracture with gypsum infilling from about 14.5 to 15.2 m. Borehole terminated at 15.38 m in dolostone. NOTE: Stratigraphy inferred from adjacent borehole 51-I. Borehole cored directly to 15.38 m, logged to confirm contacts and for monitor placement.																	

Printed: 4 OCT 93

BOREHOLE LOG PROJECT: 92-372

HYDROGEOLOGICAL INVESTIGATION

TARO QUARRIES - STONEY CREEK
FOR: TARO AGGREGATES LTD.

BOREHOLE: 51-VI 1 of 3

DATE: 6 November 1992

GEOLOGIST BMH
ELEVATION 207.9 m ASL

	} H	O۲			SA	MPI	Æ							
DEPTH (m)	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	NUMBER	INTERVAL		N UALUE		8	(%) 25 50 75 100			RQD (%) 25 50 75 10		1
0.7	FILL Brown clayey silt, trace sand, fractures with oxidation, APL, stiff.													
1 -	CLAYEY SILT Brown to grey brown clayey silt, occasional fine gravel, trace sand, fractured with orange and black		-											
2 -	oxidation, APL, very stiff to hard.							-						
3.5	CLAYEY SILT TILL		-					-						
4.2 4	Brown clayey silt with fine sand, occasional fine gravel, APL, hard. ERAMOSA DOLOSTONE		- 1	н	Q		100							
5 -	Brownish grey, fine crystalline, thin to medium bedded dolostone, occasional shale stringers, locally porous, minor occurrences of small vugs.		- 2	Н	Q		99	78						
6	-Highly fractured to about 4.7 mShale stringers weathered to about 9.2 m.							-						
7				н										
8 -			3	Н	Q		96	69						
9								_						
10 -			-					-						
11			4	н	Q		100	58					A	
12								_						
13				н				-						
14			5	Н	Q		100	91			•			
·	-Locally thinly interbedded with shale below about 14.4 m.													

BOREHOLE LOGPROJECT:92-372BOREHOLE:51-VI2 of 3HYDROGEOLOGICAL INVESTIGATIONDATE:6 November 1992TARO QUARRIES - STONEY CREEKGEOLOGISTBMHFOR:TARO AGGREGATES LTD.ELEVATION207.9 m ASL

	≿			SAMPLE											
DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	NUMBER		N VALUE	% WATER	% REC	% RQD		OVI (%)		T	RQ (%)
	S	-Thin vertical fracture with gypsum infilling	Messie 1		╌		├ ``	$ \hat{} $	-`	25	50 75	100	25	50 7	5 100
16 -		from about 14.5 to 15.2 m.		-					_						
17				- 6	НQ			99	89_						
17.7															
18 ·		VINEMOUNT SHALE Dark brownish grey, aphanitic to very fine							-						
19.1 19		crystalline, thin to medium bedded shale, interlaminated to interbedded with dolostone below about 20.1 m, dolostone beds usually associated with bioturbation at lower contact and fossils at upper							-						
20 -		contactDolostone bed from about 18.5 to 19.1 m, moderate shale content locally.		- 7	НQ			100	100						
21				-					-						
22				-					-						
22.8	三	COAT AND DOLOGOOM			НQ			100	94-			•			
23		GOAT ISLAND DOLOSTONE Brownish grey to grey, fine crystalline, thick bedded dolostone, occasional shale stringers to about 24.0 m,			пQ			100	94						
24.0 24.6		trace fossils. 1-5 mm well formed gypsum seam at about 23.5 m. SHALE		- - 8					•						
25 -		Dark brownish grey, medium bedded shale, slightly laminated with dolostone, bioturbation at upper contact.							-						
26		-Thin bedded from about 24.6 to 26.6 m.		- 9	НQ			99	98						
27				-					•						
28				-											
29		-Becoming siliceous with minor occurrences of chert and gypsum seams below about		10	НQ			99	95						4
L	<u> </u>				3	I					_11_	_	ب	•	

BOREHOLE LOGPROJECT:92-372BOREHOLE:51-VI3 of 3HYDROGEOLOGICAL INVESTIGATIONDATE:6 November 1992TARO QUARRIES - STONEY CREEKGEOLOGISTBMHFOR:TARO AGGREGATES LTD.ELEVATION207.9 m ASL

		NO AGGREGATES ETD.		SAMPLE									-			=
DEPTH (m)	УТВАТІВВАРН У	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	NUMBER	INTERUAL		UALUE	% WATER	% REC	% RQD	(OVER (%)		(QD %)	00
30.2		ANCASTER CHERT BEDS				Т							T			П
31 -		Brownish grey to light brown, fine to very fine crystalline, medium bedded siliceous dolostone with numerous chert nodules and layers, minor occurrences of sphalerite mineralization usually		-						•						
32 -		associated with chert.		11	H	3			100	100						
33 - 34 -				-						-						
35 - 35.5		-Becoming transitional with decreasing chert below about 34.9 m.		12	н	5			100	100		•				
36 - 36.6		GASPORT DOLOSTONE Buff to blue grey, coarse crystalline, medium bedded dolostone, porous, some fossils.		-						-						
37 - 38 -		DECEW DOLOSTONE Grey, fine crystalline, massive dolostone thinly interbedded with shale.		-						-						
38.4		ROCHESTER SHALE Dark grey to grey, aphanitic to very fine crystalline, thick to massive bedded dolomitic shale.		13	H	5			100	100						†
40 -				-						1						
41 -				14	н	5			100	94					•	
42 - 43 -			3							1						
44.2 44																
		Borehole terminated at 44.15 m in dolomitic shale.														

BOREHOLE LOG	PROJECT: 99-651.2	BOREHOLE: 51-VII 1 of 3
Taro East and West Landfills		DATE: 22 July 1999
Stoney Creek, Ontario		GEOLOGIST LM
FOR: Philip Services Inc.		ELEVATION 208.4 m ASL

	HY		~	44.1		S	AM	PLI	Ξ .							- 10
50 - \$0.5 14 - \$10 2014	STRATIGRAPH		MONITOR DETAILS & NUMBER		F		(±)	α.			_ 10_			14 E		_
EPTH	IGF	STRATIGRAPHIC DESCRIPTION	TAL	ER	K		VALUE	WATER	ט	Д	RE		VERY		RQ	
(m)	AT		S E	NUMBER	INTERVAL	TYPE	VA	MA	REC	RQD		(%	6)		(%)
	STR			呂		TY	z	96	₩	₩	25	50	75 100	25 5	T 50 7	5 10
		FILL	**								1	-				
0.7	XX	Brown clayey silt, trace sand, fractures with oxidation, \(APL, stiff.)					61			8						
1		CLAYEY SILT		-			4.0			-				-		
1 8		Brown to grey brown clayey silt, occasional fine gravel,	GH II				3									
		trace fine sand, fractured with orange and black oxidation, APL, very stiff to hard.												22		
2 -		APL, very sun to natu.								11						
							. 3		10							
3 -						İ				-						
3.5				25-40						- 1				-		2
		CLAYEY SILT TILL Brown clayey silt with fine sand, occasional fine gravel,											8			
4.2		APL, hard.		1	W F	IQ.			38	41				1	1	
7		ERAMOSA DOLOSTONE	(a)	2	F	-IQ			100	73					4	
5 -		Brownish grey, fine crystalline, thin to medium bedded		- [.~				-		Ì		- 1		
	\mathbb{Z}	dolostone, occasional shale stringers, locaaly porous, minor occurrence of small vugs.			N											
	4	-Highly fractured to about 4.7 m.				1		2								
6 -		-Shale stringers and weathered to about 9.2 m.							100	70			•	1.		
- 2				3	ŀ	ĮQ			100	70						
7				- [W								5 P		ľ	
					Ž,	l				1		55				
-				4	ŀ	O.			100	448						>>
8 -				- 4	1	IQ			100	770						
. 9 -				-	N					-						
				5	N H	OF	8		100	62	H	-	=		•	
					,		-		100	O.L						
10 -				-	X					•						
	4				N		* 8									
11 -				- 6	ŀ	IQ			100	0 -				•		A
		•		7	ŀ	-IQ			100	82						
							200									
12 -	4					-	N _e					7.1			1	
			4,	8	ŀ	HQ	, a		100	100						
13 -					N		-									
13				9	I	HQ	20		100	77						Ī
	4															
14 -	4			10	N F	HQ			100	82			=			
		-Locally thinly interbedded with shale below about 14.4 m.														
		District Control of the Control of t			W	- 1						- 1	1 1			

BOREHOLE LOG	PROJECT: 99-651.2	BOREHOLE: 51-VII 2 of 3
Taro East and West Landfills		DATE: 22 July 1999
Stoney Creek, Ontario		GEOLOGIST LM
FOR: Philip Services Inc.	A CONTRACTOR OF THE STATE OF TH	ELEVATION 208.4 m ASL

FOR:	1 1111	ip Services Inc.						10.0	V 1 1 1	ION	208.4		
	HY		2		S	AM	PLI	E		11	8 22 8		
DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	NUMBER	TYPE	N VALUE	% WATER	% REC	% RQD	(4	VERY	(QD %)
-	22	D. C. C. C. C. C. C. C. C. C. C. C. C. C.	nieron autore	4	()	I	04-	04		25 50	75 100	25 50	75 100
16 -		ERAMOSA DOLOSTONE (continued)		11	HQ		20	100	89			-	•
17				12	HQ			100	97		•		
17.7		VINEMOUNT SHALE Brownish grey, aphanitic to very fine crystalline, thin to medium bedded shale, interlaminated to interbedded with dolostone below about 20.1 m, dolostone beds usually		13	HQ		ă.	100	88				•
19 -		associated with bioturbation at lower contact and fossils at upper contact. -Dolostone bed from about 18.5 to 19.1 m, moderate shale content locally.						. 12					
20 -		Concent recarry.		14	HQ			100	95				
22 -				15	HQ			100	100				
22.8	S	GOAT ISLAND DOLOSTONE											
24.0 24		Brownish grey to grey, fine crystalline, thick bedded dolostone, occassional shale stringers to about 24.0 m, trace fossils.		16	HQ			100	100				
24.6 25 –		\5 mm well formed gypsum seam at about 23.5 m. \		17	HQ			100	93				•
26 -		-Thin bedded from about 24.6 to 26.6 mFractured zone from about 25.3 to 26.6 m.						100	04				
27 -				18	HQ HQ			100	94			3	
28 -				19	HQ			100	100				
29 -				- 20	HQ			100	68-				•
		7 Jun 00									er Le		

BOREHOLE LOG
PROJECT: 99-651.2

BOREHOLE: 51-VII 3 of 3

Taro East and West Landfills
Stoney Creek, Ontario
FOR: Philip Services Inc.

BOREHOLE: 51-VII 3 of 3

DATE: 22 July 1999
GEOLOGIST LM
ELEVATION 208.4 m ASL

		ip Services Inc.										- 17	,			
	HY		PK.			S	AM	PLI	C .							
DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	NUMBER	INTERVAL	TYPE	N VALUE	% WATER	% REC	% RQD		(%	VERY 75 100		RQ (% 50 7)
	ξĊ			_	10.	-					23	30	13100	23	30 1	310
30.2		ANCASTER CHERT BEDS Brownish grey to light brown, fine to very fine crystalline, medium bedded siliceous dolostone with numerous chert nodules and layers, minor occurrence of sphalerite		21		HQ	7.		100	87			•			•
32		mineralization usually associated with chert.		22		HQ	940		100	100						
33 -		-Fracture encountered at about 32.4 m.		-			71 11 L	ti								
3.7					M	-										
,5.7		Borehole terminated at 33.73 m in dolosone.														
		Stratigraphy inferred from adjacent borehole 51-I.	v.			-										
								at.								
									÷							
						* -		12	-							
										88						10
									1							
										-	8					
														-		
							-									
	1		1	1	11					1	1	- 1.		1	- 1	1

BOREHOLE LOG	PROJECT: 99-651.2	BOREHOLE: 51-VIII 1 of 2
Taro East and West Landfills		DATE: 23 July 1999
Stoney Creek, Ontario		GEOLOGIST LM
FOR: Philip Services Inc.		ELEVATION 208.5 m ASL

EPTH (m)	KAP.	ı 1~						PLI			4				8		
(/	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION STRATIGRAPHIC DESCRIPTION	DETAILS & NUMBER	NUMBER	INTERVAL	TYPE	VALUE	WATER	REC	RQD		(%)			RQ)
	ST	4	IN DURNOUSE	Z	1	H	Z	96	- 960	96	1	25 50	0.75	100	25	50 7	5 100
0.7		FILL Brown clayey silt, trace sand, fractures with oxidation, APL, stiff.															
1		CLAYEY SILT Brown to grey brown clayey silt, occasional fine gravel, trace fine sand, fractured with orange and black oxidation,															
2		APL, very stiff to hard.						89		-							
3																	
3.5 4.2 ⁴		CLAYEY SILT TILL Brown clayey silt with fine sand, occasional fine gravel,		-			-	8									
4.2 5 -		APL, hard. ERAMOSA DOLOSTONE Brownish grey, fine crystalline, thin to medium bedded			F			20	//2	_							
		dolostone, occasional shale stringers, locaaly porous, minor occurrence of small vugs. -Highly fractured to about 4.7 m.		2	F	HQ											
6		-Shale stringers and weathered to about 9.2 m.		2	H	10	2 "	10									
7			- 1		Г	IQ			125								
8 -				4	H	-IQ		9 E							3		
9								, 20									
10 -				5	ŀ	IQ				_							
11																	
				6	H	HQ							Ž.				
12				7	W W K	HQ											
13				,		14		*	e di								
14				- 8	A F	HQ		is.									
	H	-Locally thinly interbedded with shale below about 14.4 m.															

BOREHOLE LOG	PROJECT: 99-651.2	BOREHOLE: 51-VIII 2 of 2
Taro East and West Landfills		DATE: 23 July 1999
Stoney Creek, Ontario		GEOLOGIST LM
FOR: Philip Services Inc.		ELEVATION 208.5 m ASL

100	ना					C	ARA	PLI	7			0	18		T		
EPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	NUMBER	INTERVAL	TYPE	N VALUE	% WATER	% REC	% RQD		(%	ERY 5 100	L		QD %) 75 10
	S	ERAMOSA DOLOSTONE (continued)			W								0 /	3100	1	7 30	7510
		ERAMOSA DOLOSTONE (continued)			M												
					M.				17 14								
16 -				- 9		HQ	9		2 .	out I							
						1			.17								
17 -				10		חט			- 10								
0 00				10	N.	пŲ										١.	
17.7		AND SOALS OF THE CHARLES			X		. 7										
18	==	VINEMOUNT SHALE Brownish grey, aphanitic to very fine crystalline, thin to		F I	N					-							
	==:	medium bedded shale, interlaminated to interbedded with					2										
	==	dolostone below about 20.1 m, dolostone beds usually	10.00	11		НО	8		122								
19	==1	associated with bioturbation at lower contact and fossils at	140	- 11	N.	110			-	-							
	==1	upper contact.			100								in .				
	==1	-Dolostone bed from about 18.5 to 19.1 m, moderate shale		12		HQ		9									
20 -	==1	content locally.		-				24		-							
25	==1		14.2		A			,									
	==				N												
21	彐			13		un.				-		-					
				13	W.	nQ									1.		
	금				M.				7-	1.5			. "		1		
22	==			_ 14		HQ				-							
	==																
22.8	==																
23		GOAT ISLAND DOLOSTONE		-	À			-	- LS	-							
1		Brownish grey to grey, fine crystalline, thick bedded	100	15		HQ			٠								
.		dolostone, occassional shale stringers to about 24.0 m, trace	4 0 0		X	- 1											
24.0 24	_	fossils. -5 mm well formed gypsum seam at about 23.5 m.		-			1			-							
24.6	==	SHALE			M				8	100							
24.6	7	Dark brownish grey, medium bedded shale, slightly															
25 -		laminated with dolostone, bioturbation at upper contact.		-16		HQ				-							
120		-Thin bedded from about 24.6 to 26.6 m.	*		M												
		-Fractured zone from about 25.3 to 26.6 m.	3														
26			4	- 17						-							
2 10				17		HQ			10								
26.8					M										+	+	
- t		Borehole terminated at 26.82 m in dolosone.															
		Stratigraphy inferred from adjacent borehole 51-I.															
			14					-					•				
									- 10				1.				
										16							
	- 1		ı	1	1	- 1		1	1	1	1	1	1	1	1 1	. 1	1

BOREHOLE LOG	PROJECT: 99-651.2	BOREHOLE: 51-IX 1 of 2
Taro East and West Landfills		DATE: 21 July 1999
Stoney Creek, Ontario		GEOLOGIST LM
FOR: Philip Services Inc.		ELEVATION 208.4 m ASL

DEPTH (m) STRATIGRAPHIC DESCRIPTION FILL Brown clayey silt, trace sand, fractures with oxidation, APL, stiff. CLAYEY SILT TILL Brown clayey silt with fine sand, occasional fine gravel, APL, hard. ERAMOSA DOLOSTONE Brownish grey, fine crystalline, thin to medium bedded dolostone, occasional shale stringers, locally porous, minor occurrence of small vags. Highly fractured to about 4.7 m. Shale stringers and weathered to about 9.2 m. RECOVERY RQD (%) (%) (%) (%) FILL Brown clayey silt, trace sand, fractures with oxidation, APL, very stiff to hard. PLAYEY SILT TILL Brown clayey silt with fine sand, occasional fine gravel, APL, hard. ERAMOSA DOLOSTONE Brownish grey, fine crystalline, thin to medium bedded dolostone, occasional shale stringers, locally porous, minor occurrence of small vags. Highly fractured to about 4.7 m. Shale stringers and weathered to about 9.2 m. 3 HQ 4 HQ 5 HQ 6 HQ 7 HQ 7 HQ	F 7 15.	HY		2			S	AM	PLI	E			a 13				
FILL Brown clayey silt, trace sand, fractures with oxidation, APL, stiff. CLAYEY SILT Brown to grey brown clayey silt, occasional fine gravel, trace fine sand, fractured with orange and black oxidation, APL, very stiff to hard. CLAYEY SILT TILL Brown clayey silt with fine sand, occasional fine gravel, APL, hard. ERAMOSA DOLOSTONE Brownish grey, fine crystalline, thin to medium bedded dolostone, occasional shale stringers, locally porous, minor occurrence of small vugs. -Highly fractured to about 4.7 m. Shale stringers and weathered to about 9.2 m. B HQ 4 HQ 5 HQ 6 HQ 6 HQ		STRATIGRAP	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBEI	NUMBER	INTERVAL		VALUE	WATER	REC		(%)		L,	(%	6)
13 - 8 HQ 9 HQ	0.7 1 2 3 3.5 4.2 4 5 6 7 10 11 12		FILL Brown clayey silt, trace sand, fractures with oxidation, APL, stiff. CLAYEY SILT Brown to grey brown clayey silt, occasional fine gravel, trace fine sand, fractured with orange and black oxidation, APL, very stiff to hard. CLAYEY SILT TILL Brown clayey silt with fine sand, occasional fine gravel, APL, hard. ERAMOSA DOLOSTONE Brownish grey, fine crystalline, thin to medium bedded dolostone, occasional shale stringers, locaaly porous, minor occurrence of small vugsHighly fractured to about 4.7 m.		2		HQ HQ HQ	N	1000 1					100	25	50	75 10

BOREHOLE LOG	PROJECT: 99-651.2	BOREHOLE: 51-IX 2 of 2
Taro East and West Landfills		DATE: 21 July 1999
Stoney Creek, Ontario		GEOLOGIST LM
FOR: Philip Services Inc.		ELEVATION 208.4 m ASL

	НУ		K		S	AM	PLI		200						
DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	DETAILS & NUMBER	NUMBER	TYPE	VALUE	WATER	REC	RQD	REC	COV	ERY		R(
	TR			Z.	T Z	z	₩	₩	₩	25	50 7	75 100	2	5 50	75 100
	07	ERAMOSA DOLOSTONE (continued)			N							П			
				10	HQ										
10	\mathbb{Z}			. 10	IIQ					=					
16 -	4			DE LE											
								, T							
17				-	N										
	1		1.	11	HQ						100				
17.7	7	VINEMOUNT SHALE													
18		Brownish grey, aphanitic to very fine crystalline, thin to		-											
		medium bedded shale, interlaminated to interbedded with	n e		Ä								- 2		
	===	dolostone below about 20.1 m, dolostone beds usually		. 12	HQ										
19		associated with bioturbation at lower contact and fossils at			N .										
	==	upper contactDolostone bed from about 18.5 to 19.1 m, moderate shale			Ĭ										-
20 -	==	content locally.			110				-						
				13	HQ							1-1-		940	
	===														
21	=			- [Ň										
			1111												
				14	HQ										
22		****				1									
	==				Ň			-	7.		t				
22.8	7	GOAT ISLAND DOLOSTONE		-											
23		Brownish grey to grey, fine crystalline, thick bedded		15	HQ										
23.9		dolostone, occassional shale stringers to about 24.0 m, trace			N						1				
24.0	42.4	fossils. -5 mm well formed gypsum seam at about 23.5 m.		15											
20		Borehole terminated at 23.98 m in dolosone.											1		
			8,												
		Stratigraphy inferred from adjacent borehole 51-I.											1		
				7							1				
						- 21									
								-							
			ii.												
								2001					1		
															1 1
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	1														
	1														

BOREHOLE LOGPROJECT:92-372BOREHOLE:52-I1 of 2HYDROGEOLOGICAL INVESTIGATIONDATE:6 October 1992TARO QUARRIES - STONEY CREEKGEOLOGISTPWFOR:TARO AGGREGATES LTD.ELEVATION204.7 m ASL

	¥		, n		S	AM	PLI	3			· · · · · · · · · · · · · · · · · · ·				
DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	NUMBER	TYPE	VALUE	WATER	REC	RQD		COVE	ERY		RQD (%)	
	ST			ž	<u> </u>	z	×	%	*	25	50 75	100	25 5	0 75 10	0
1.0		SANDY SILT Dark brown, mottled rust brown and grey, sandy silt with clay, moist, compact. ERAMOSA DOLOSTONE		2	SS SS HQ	20 37/ 0.03n	12 1	50 100	31				•		
2 -		Brownish grey to greyish brown, fine crystalline, thin to medium bedded dolostone, locally weathered and porous to about 9.2 m, occasional shale stringers.			НQ			100	28-						
3 -				3	НQ			100	53			•			
4 -					нQ			99	83-						
5 -								3 8	-						
7 -					НQ			97	78						
8 -				. 6	НQ			100	7 6_						
9 -		-Becoming thinly interbedded with shale below		7	нQ			99	84			-			
10 -		about 9.5 m.		-					-						
11 -		-Transitional below about 11.7 m.		- 8	нQ	1		100	89						
13.0				9	нQ			100	78						
13 -		VINEMOUNT SHALE Dark brownish grey, aphanitic to very fine			Ň										
13.8 14.4		crystalline, thin to medium bedded shale, locally interlaminated to thinly interbedded with dolostone.		10	НQ			96	68					•	
		-Dolostone bed from about 13.8 to 14.4 m, moderate shale content locally.												mita	Ш

BOREHOLE LOGPROJECT:92-372BOREHOLE:52-I2 of 2HYDROGEOLOGICAL INVESTIGATIONDATE:6 October 1992TARO QUARRIES - STONEY CREEKGEOLOGISTPWFOR:TARO AGGREGATES LTD.ELEVATION204.7 m ASL

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	NUMBER	INTERUBL	ТҮРЕ	N UALUE WA	% WATER TA	% REC	% RQD	 (9	VE %)	RY		R()	_	
16 -	s	VINEMOUNT SHALE(continued)				НQ			99	78	5 50	751	•	25	1	75 10	
17 -		-Becoming transitional below about 11.7 m.		12		НQ			100	82			-			•	
18.0 18 -		GOAT ISLAND DOLOSTONE Brownish grey to grey, fine crystalline, thin to medium bedded dolostone, moderate shale content, trace fossils, minor occurrence of sphalerite		13		HQ			92	83		•				•	
		mineralization. -3 cm gypsum nodule followed by a 1 cm gypsum, seam slighty weathered, at about 18.8 m. Borehole terminated at 19.19 m in dolostone.															

BOREHOLE LOGPROJECT:92-372BOREHOLE:52-II1 of 2HYDROGEOLOGICAL INVESTIGATIONDATE:7 October 1992GEOLOGISTPWFOR: TARO AGGREGATES LTD.

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DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	NUMBER	INTERUAL	TYPE	UALUE	WATER	REC	RQD		((%			_	RQ (%)
	S		PRESIDE POUCS	Z	Ц	-	z	*	*	*	_2	5 5	0 7	5 10	0	25	50 7	5 100
1.0		SANDY SILT Dark brown, mottled rust brown and grey, sandy silt with clay, moist, compact.		-						_								
,		ERAMOSA DOLOSTONE Brownish grey to greyish brown, fine crystalline, thin to medium bedded dolostone, locally weathered and								_								
2 -		porous to about 9.2 m, occasional shale stringers.																
3 -																		
4 -																		
5 -				-		:				-								
6 -										•								
7 -																		
8 -																		
9 -		-Becoming thinly interbedded with shale below		-														
10 -		about 9.5 m.		-						-								
11 -				-														
12 -		-Transitional below about 11.7 m.		-														
13.0 13 -		VINEMOUNT SHALE	_	-														
13.8 14 -		Dark brownish grey, aphanitic to very fine crystalline, thin to medium bedded shale, locally interlaminated to thinly interbedded with dolostone.		-														
		-Dolostone bed from about 13.8 to 14.4 m, moderate shale content locally.																itod

BOREHOLE LOGPROJECT:92-372BOREHOLE:52-II2 of 2HYDROGEOLOGICAL INVESTIGATIONDATE:7 October 1992TARO QUARRIES - STONEY CREEKGEOLOGISTPWFOR:TARO AGGREGATES LTD.ELEVATION204.7 m ASL

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DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	NUMBER	INTERUAL	TYPE	VALUE	WATER	REC	RQD	_	((%)			-	RQI (%)) <u> </u>
	ST		<u> </u>	Z	Н	T	z	×	×	*	2	5 5	0 7	5 10	0	25 5	0 75	100
15.3		VINEMOUNT SHALE(continued)	#		\prod									\Box		1	\Box	$\perp \downarrow \downarrow$
		Borehole terminated at 15.30 m in shale.			П													
		NOTE: Stratigraphy inferred from adjacent borehole		1											ļ			
		52-I. Borehole cored directly to 15.30 m, logged to			Н										İ			
		confirm contacts and for monitor placement.		l	П										İ	Ì		
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BOREHOLE LOGPROJECT: 92-372BOREHOLE: 52-III 1 of 1HYDROGEOLOGICAL INVESTIGATIONDATE: 8 October 1992TARO QUARRIES - STONEY CREEKGEOLOGIST PWFOR: TARO AGGREGATES LTD.ELEVATION 204.7 m ASL

DEPTH (m) STRATIGRAPHIC DESCRIPTION SAMPLE STRATIGRAPHIC DESCRIPTION Description SANDY SILT Dark brown, motited rust brown and grey, sandy silt with clay, moist, compact. ERAMOSA DOLOSTONE Brownish grey to greyish brown, fine crystalline, this to medium bedded dolostone, locally weathered and porous to about 9.2 m, occasional shale stringers. Borehole terminated at 10.94 m in dolostone. NOTE: Stratigraphy inferred from adjacent borehole 5:1. Borehole cored directly to 10.94 m, logged to confirm contacts and for monitor placement.	FUR: 1		O AGGREGATES LTD.	SAMPI F															
1.0 1 Bramos Dolostone Brownish grey to greyish brown, fine crystalline, thin to medium bedded dolostone, locally weathered and porous to about 9.2 m, occasional shale stringers. 3 4 5 - 8 9 10.0 10 Borehole terminated at 10.04 m in dolostone. NOTE: Stratigraphy inferred from adjacent borehole 52-l. Borehole cored directly to 10.04 m, logged to	DEDTIL	КАРНҮ	CTD ATIOD ADDIC DESCRIPTION	TOR ILS MBER		Į.	S					RI	i.C.	οv	ERY		R	αo	
1.0 1 Bramos Dolostone Brownish grey to greyish brown, fine crystalline, thin to medium bedded dolostone, locally weathered and porous to about 9.2 m, occasional shale stringers. 3 4 5 - 8 9 10.0 10 Borehole terminated at 10.04 m in dolostone. NOTE: Stratigraphy inferred from adjacent borehole 52-l. Borehole cored directly to 10.04 m, logged to	(m)	RATIG	SIKATIGRAPHIC DESCRIPTION	MON 4	JMBER	TERU	YPE				Rad	(%)				(%)			
2 Dark brown, mottled rust brown and grey, sandy silt with clay, moist, compact. ERAMOSA DOLOSTONE Brownish grey to greyish brown, fine crystalline, thin to medium bedded dolostone, locally weathered and porous to about 9.2 m, occasional shale stringers. 3 3 4 5 - 6 6 7 7 8 8 9 9 10.0 10 10 10 10 10 10 10 10 10 10 10 10 10		ST			ž	Ħ	Ĺ	z	*	×	*	2	5 5	0 7	5 100	2	5 50	75 1	100
Brownish grey to greyish brown, fine crystalline, thin to medium bedded dolostone, locally weathered and porous to about 9.2 m, occasional shale stringers.	1.0		Dark brown, mottled rust brown and grey, sandy silt with clay, moist, compact.								-								
8 9 10.0 10 Borehole terminated at 10.04 m in dolostone. NOTE: Stratigraphy inferred from adjacent borehole 52-I. Borehole cored directly to 10.04 m, logged to	2		Brownish grey to greyish brown, fine crystalline, thin to medium bedded dolostone, locally weathered and		_						-								
5 - 6 7 8 9 10.0 10 Borehole terminated at 10.04 m in dolostone. NOTE: Stratigraphy inferred from adjacent borehole 52-I. Borehole cored directly to 10.04 m, logged to	3 -				-						-								
Borehole terminated at 10.04 m in dolostone. NOTE: Stratigraphy inferred from adjacent borehole 52-I. Borehole cored directly to 10.04 m, logged to				288888 33488 							-								
Borehole terminated at 10.04 m in dolostone. NOTE: Stratigraphy inferred from adjacent borehole 52-I. Borehole cored directly to 10.04 m, logged to																			
Borehole terminated at 10.04 m in dolostone. NOTE: Stratigraphy inferred from adjacent borehole 52-I. Borehole cored directly to 10.04 m, logged to				*********	-						-								
Borehole terminated at 10.04 m in dolostone. NOTE: Stratigraphy inferred from adjacent borehole 52-I. Borehole cored directly to 10.04 m, logged to	8 -			*******															
Borehole terminated at 10.04 m in dolostone. NOTE: Stratigraphy inferred from adjacent borehole 52-I. Borehole cored directly to 10.04 m, logged to	9 -				_							4							
NOTE: Stratigraphy inferred from adjacent borehole 52-I. Borehole cored directly to 10.04 m, logged to	10.0 10 -		Rozehole terminated at 10.04 m in dolostone.		-	\downarrow					 	╀				+	${f H}$	+	-
			NOTE: Stratigraphy inferred from adjacent borehole 52-I. Borehole cored directly to 10.04 m, logged to																
Cortner Lea Limited	1																		

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