WINNIPEG WATER TREATMENT PROGRAM

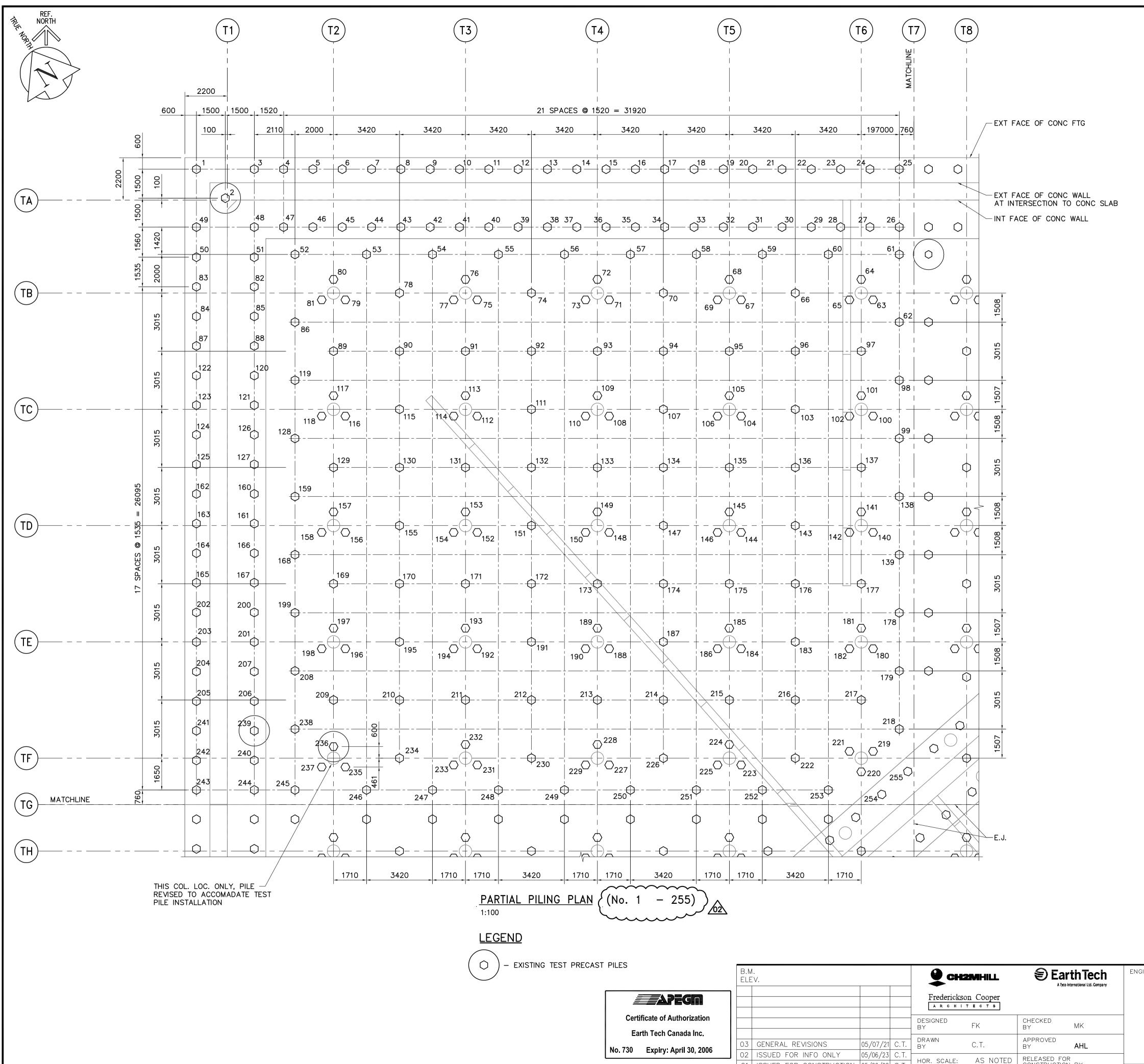


PILE DRIVING RECORDS

FOR CONTRACT

166-2005 – CLEARWELL CONSTRUCTION

ISSUED AUGUST 21, 2006



	B.M Ele		T		СН		-	arthTech yco International Ltd. Company	ENGINEER'S SEAL
					Fredericks	^			ORIGINAL SIGNED BY
Certificate of Authorization					DESIGNED BY	FK	CHECKED BY	МК	F.A. KEMP
Earth Tech Canada Inc. No. 730 Expiry: April 30, 2006	03	GENERAL REVISIONS	05/07/21		DRAWN BY	С.Т.	APPROVED BY	AHL	2005/04/17
	02	ISSUED FOR INFO ONLY ISSUED FOR CONSTRUCTION	05/06/23 05/06/08		HOR. SCALE: VERTICAL SCAL	AS NOTED	RELEASED F CONSTRUCTI	ON BY:	
	00 NO.	ISSUED FOR TENDER REVISIONS	05/04/17 DATE	C.T. BY		5/02/28	DATE R.	SOROKOWSKI 2005-04-17	CONSULTANT DRAWING

WING NO.

STRUCTURAL PARTIAL PILING PLAN

WATER TREATMENT PLANT CLEARWELL CONSTRUCTION

SHEET OF

CITY DRAWING NUMBER

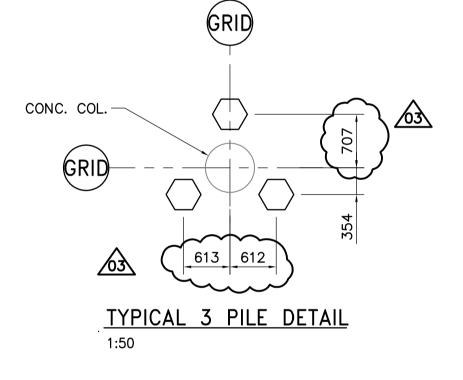
1-0601T-B-S0003-001-03D

CITY FILE NUMBER

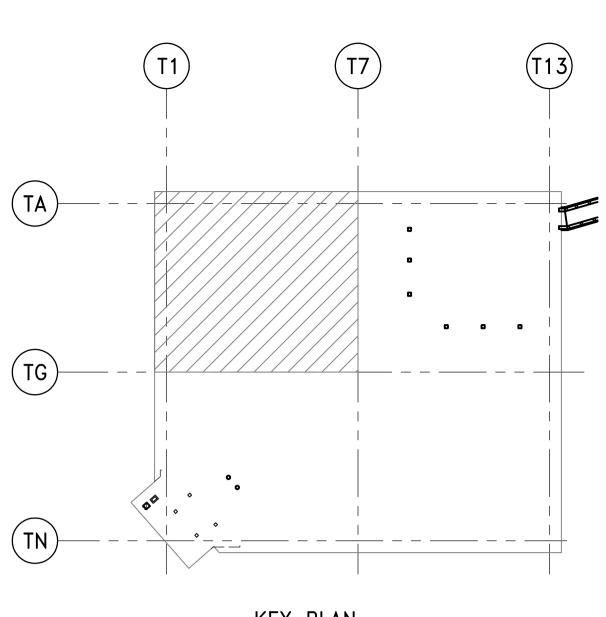
THE CITY OF WINNIPEG \bigcirc WATER AND WASTE DEPARTMENT Winnipeg ENGINEERING DIVISION

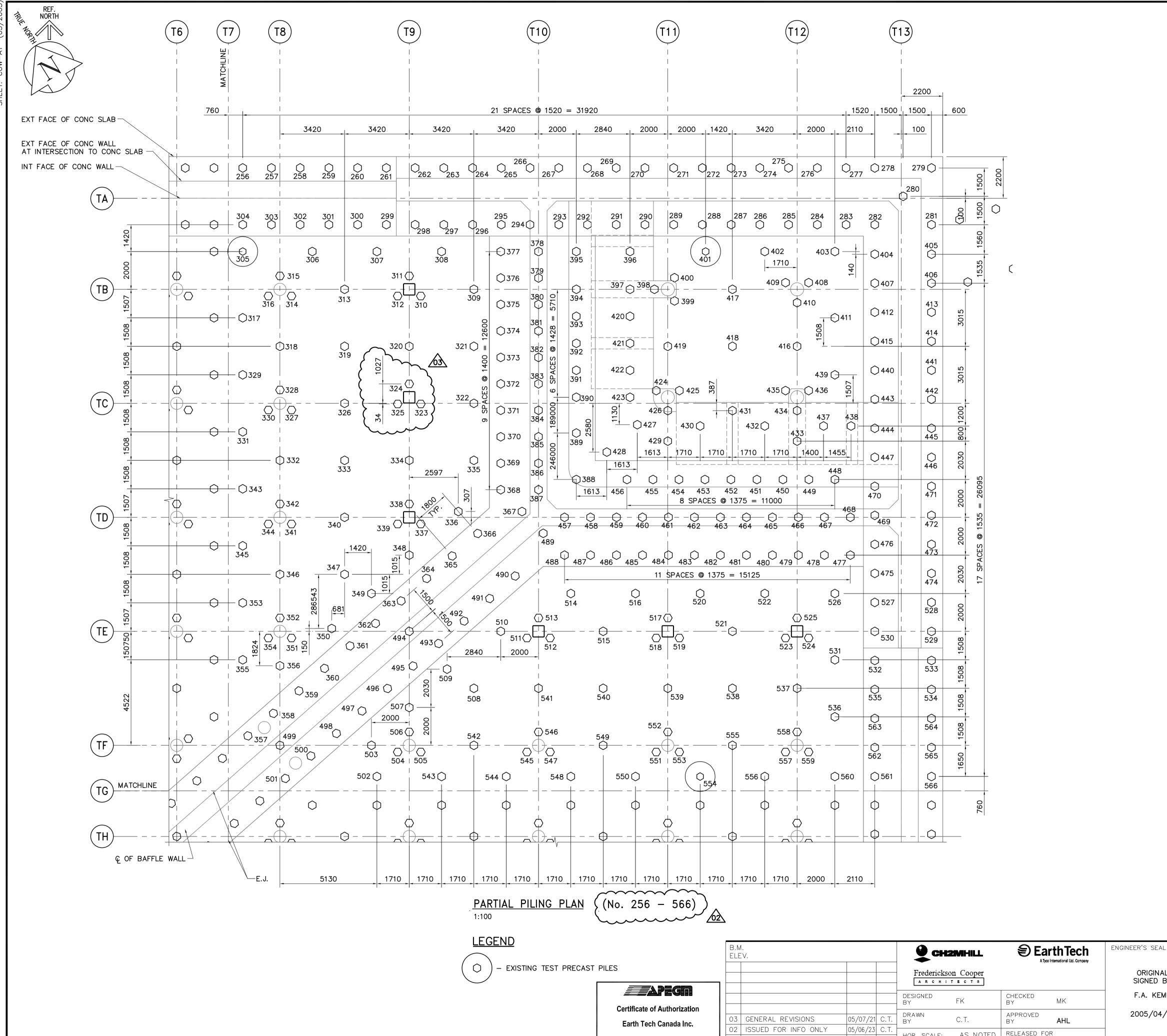
PILE CUT OFF ELEVATIONS VARY 300±. FOR PILE CUT OFF ELEVATIONS REFER TO PILE CUT OFF SCHEDULE DATED JULY 14, <u>⁄03</u> 2005 REVISED JULY 21, 2005.

DRAWING NOTES: 1. ALL PILES ARE 400 DIAMETER PRECAST UNLESS NOTED OTHERWISE. 2. REFER TO DRAWING WT-S002 FOR GRID LINE DIMENSIONS.









	ELE		1		2MHILL	-	Artn Iecn Tyco International Ltd. Company		
						on Cooper тестя			ORIGINAL SIGNED BY
					DESIGNED BY	FK	CHECKED BY	МК	F.A. KEMP
Certificate of Authorization									
Earth Tech Canada Inc.	03	GENERAL REVISIONS	05/07/21		DRAWN BY	С.Т.	APPROVED BY	AHL	2003/04/17
	02	ISSUED FOR INFO ONLY	05/06/23		HOR. SCALE:	AS NOTED	RELEASED	FOR	-
No. 730 Expiry: April 30, 2006	01	ISSUED FOR CONSTRUCTION	05/06/08	C.T.	VERTICAL SCA		CONSTRUCT		
	00	ISSUED FOR TENDER	05/04/17	C.T.		LL.	F	R. SOROKOWSKI	CONSULTANT DRAWING
	NO.	REVISIONS	DATE	BY	DATE 200)5/02/08	DATE	2005-04-17	WT-S004

DRAWING NO. 04

STRUCTURAL PARTIAL PILING PLAN

CLEARWELL CONSTRUCTION

1-0601T-B-S0004-001-03D

CITY DRAWING NUMBER

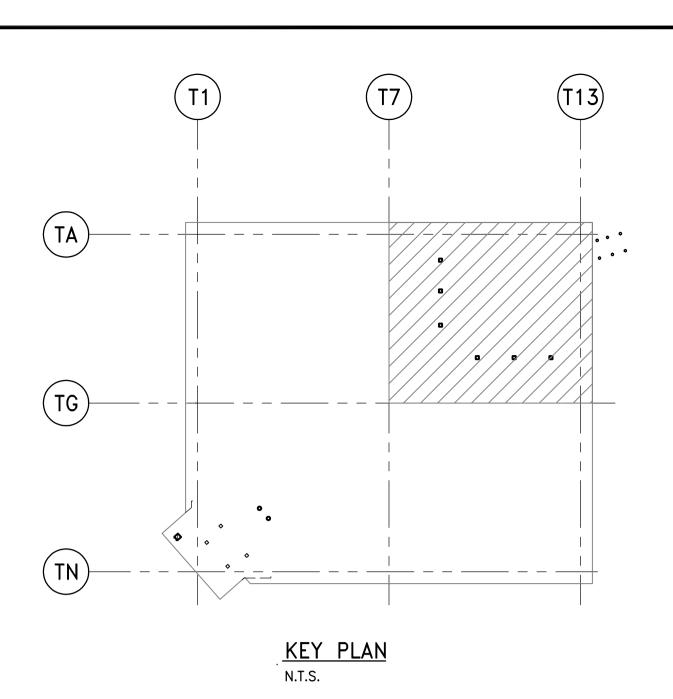
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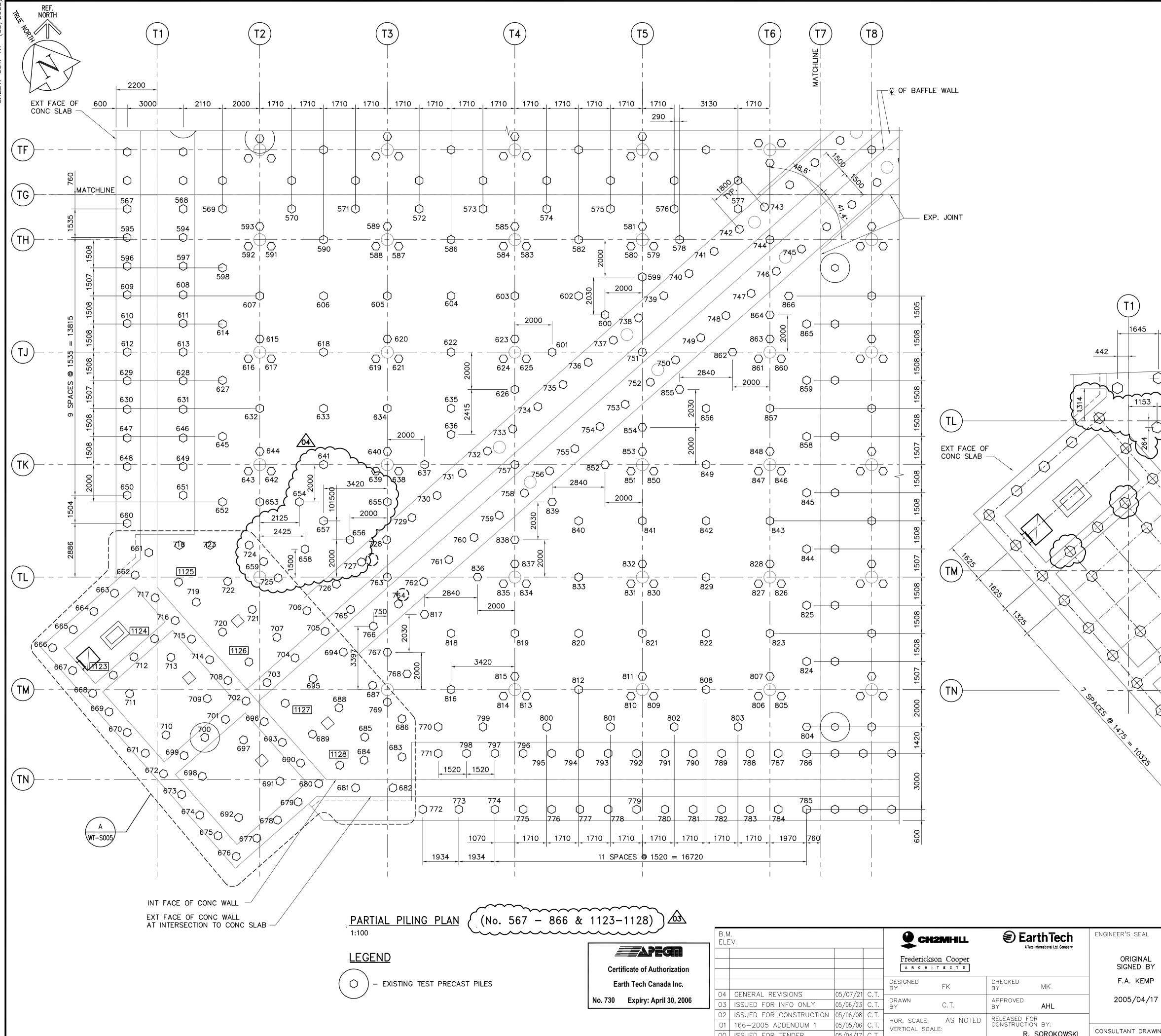
CITY FILE NUMBER

THE CITY OF WINNIPEG 0 WATER AND WASTE DEPARTMENT Winnipeg ENGINEERING DIVISION WATER TREATMENT PLANT

PILE CUT OFF ELEVATIONS VARY 3001. FOR PILE CUT OFF <u>⁄03∖</u> ELEVATIONS REFER TO PILE CUT OFF SCHEDULE DATED JULY 14, 2005 REVISED JULY 21, 2005.

DRAWING NOTES: 1. ALL PILES ARE 400 DIAMETER PRECAST UNLESS NOTED OTHERWISE. 2. REFER TO DRAWING WT-S002 FOR GRID LINE DIMENSIONS. 3. REFER TO DRAWING WT-S003 FOR 3 PILE DETAIL.

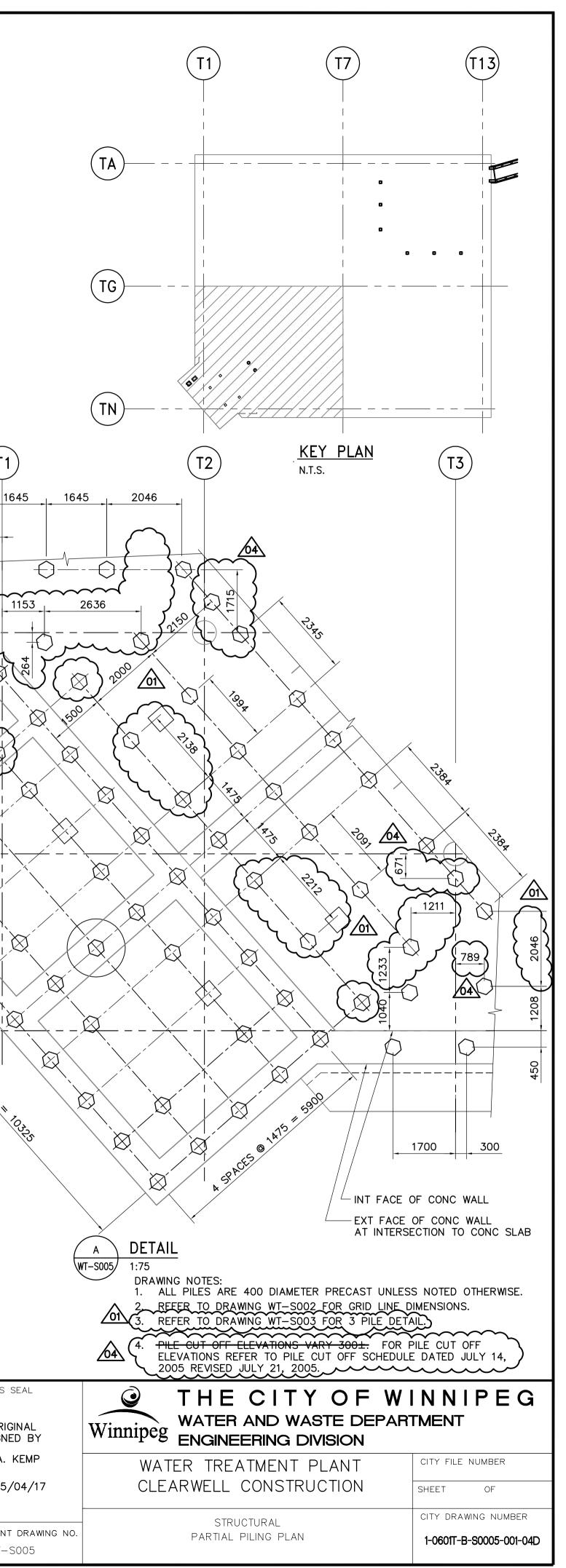


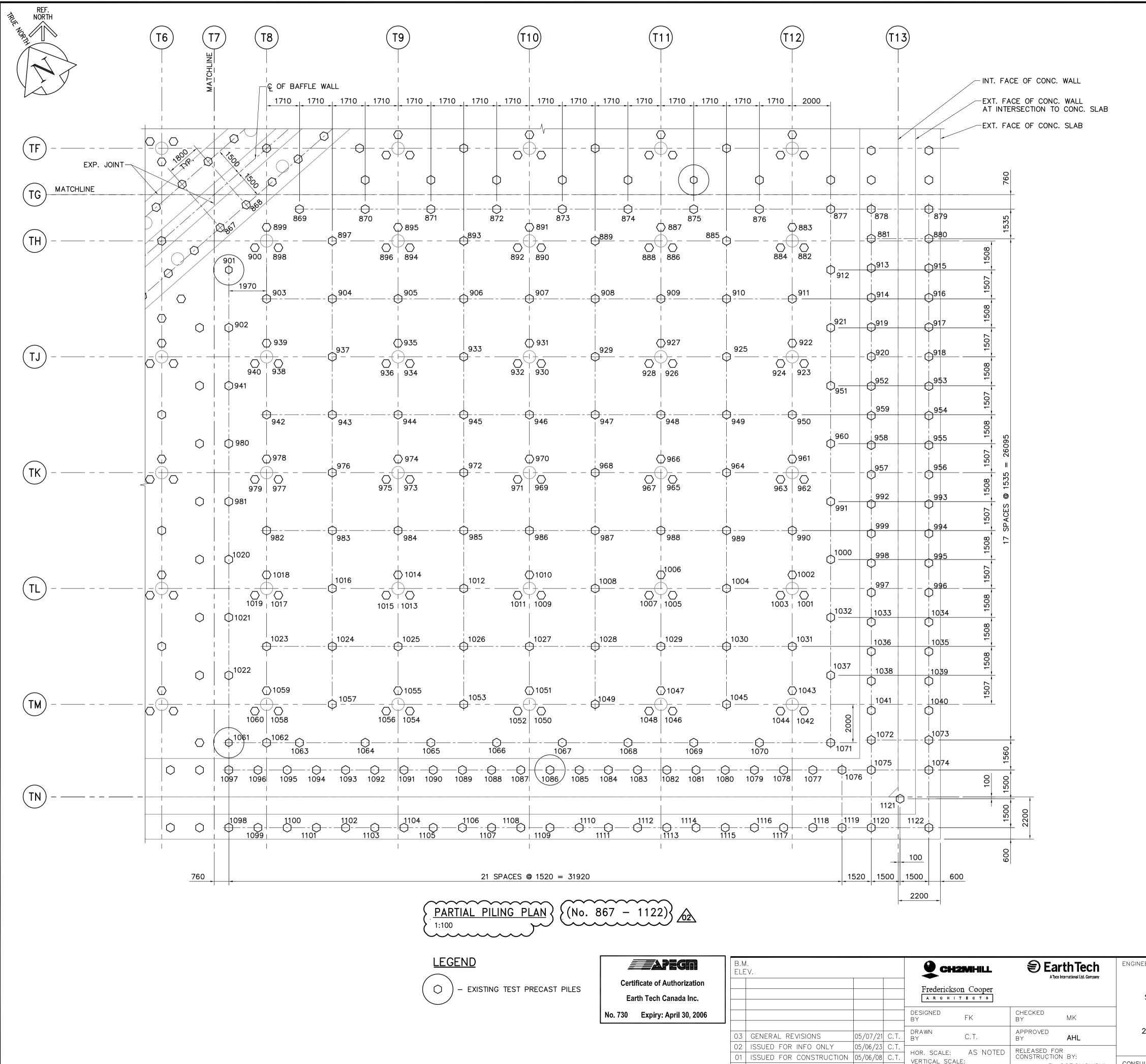


	B.N EL	И. ЕV.			Сн	2MHILL	-	arthTech	ENGINEER'S SEAL
Certificate of Authorization					Fredericks	A			ORIGINAL SIGNED B
Earth Tech Canada Inc.					DESIGNED	FK	CHECKED	MK	F.A. KEMI
No. 730 Expiry: April 30, 2006	04 03	GENERAL REVISIONS	/ /	C.T.	DRAWN BY	С.Т.	APPROVED BY	AHL	2005/04/
	02 01 00	ISSUED FOR CONSTRUCTION 166-2005 ADDENDUM 1 ISSUED FOR TENDER	05/06/08 05/05/06 05/04/17	C.T.	HOR. SCALE: Vertical scal	AS NOTED Le:	RELEASED F CONSTRUCT R		CONSULTANT DRA
	NO.	REVISIONS	DATE	ΒY	date 200	5/02/08	DATE	2005-04-17	WT-S005

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		B.M. ELEV.			Сна	2MHILL		rthTech	ENGINEER'S SEAL
ILES	Certificate of Authorization				Frederickso	on Cooper			ORIGINAL
	Earth Tech Canada Inc.				ARCHI	TECTS			SIGNED BY
	No. 730 Expiry: April 30, 2006				DESIGNED BY	FK	CHECKED BY	MK	F.A. KEMP
		03 GENERAL REVISIONS	05/07/21	С.Т.	DRAWN BY	C.T.	APPROVED BY	AHL	2005/04/17
		02 ISSUED FOR INFO ONLY	05/06/23		HOR. SCALE:	AS NOTED	RELEASED FO)R	-
		01 ISSUED FOR CONSTRUCTION	05/06/08	C.T.	VERTICAL SCALE.		CONSTRUCTIO		
		00 ISSUED FOR TENDER	05/04/17	C.T.	C.T.		R.	SOROKOWSKI	CONSULTANT DRAWING
		NO. REVISIONS	DATE	ΒY	DATE 200	5/02/08	DATE	2005-04-17	WT-S006

RAWING NO.

STRUCTURAL PARTIAL PILING PLAN

WATER TREATMENT PLANT

CLEARWELL CONSTRUCTION

1-0601T-B-S0006-001-03D

CITY DRAWING NUMBER

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CITY FILE NUMBER

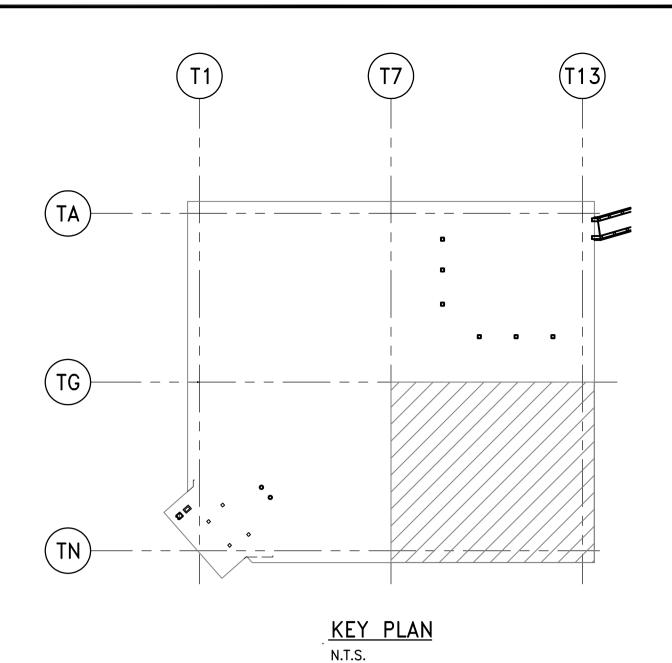
THE CITY OF WINNIPEG \bigcirc WATER AND WASTE DEPARTMENT Winnipeg ENGINEERING DIVISION

2005 REVISED JULY 21, 2005.

3. REFER TO DRAWING WT-S003 FOR 3 PILE DETAIL. . PILE CUT OFF ELEVATIONS VARY 3001. FOR PILE CUT OFF ELEVATIONS REFER TO PILE CUT OFF SCHEDULE DATED JULY 14

2. REFER TO DRAWING WT-S002 FOR GRID LINE DIMENSIONS.

DRAWING NOTES: 1. ALL PILES ARE 400 DIAMETER PRECAST UNLESS NOTED OTHERWISE.



	ÐE			and the second second	PILE D	RIVING	G RE	col	RDS	D	ATE:	July 2	\$5.05]
			estate and the state of the		NIPEG – V	VATER TI	REAT	MENI	PLA	NT – C	LEARWEL			1
PILE	PILE	DEPT	FINAL	FIN	DES.	A	PILE	FIN	I IAL S	ET			~	
E NUMBER	LE LENGTH E	DEPTH PREBORED	AL TOP ELEV.	FINAL TIP ELEV.	DES. CUTOFF ELEV.	ACT. CUTOFF ELEV.	PLUMBNESS	1 ST SET	2 ND SET	3 RD SET	M	JFACTU ARKINC RE-DRIV	is	
279	in	2.7	232.19	215,15)		1	22	17	15	1919,	Juli	14-05	
281	1,	е.,	232.954	215.954	-		1	22	19	22		t 1	1	12 ber
405	11	u	232.904	215.904			1	17	19	20	1920	,		ourc 1
406	٦١	3.0	232,909	215,909			1	22	17	13	1622 .	June	24.05	
280	۱	2.7	252 ,729	215,729			1	22	17	15	1623			
278	11	1.6	232.673	215.673		: •	/	17	20	19	1621	, n		
282	.,	2.4	232,988	215,988			V	19	16	15	1618	, x		
404	11	2.4					V	20	19	17	1619,	. 11	19 - Ale	
407	1 ¹ sp	2.4	4 2				V	23	19	15	1524	с. ⁵⁵ и		
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	Ð				PILE D	RIVING	G RE	COF	RDS	D	ATE:	July à	8.05
					VIPEG – V	VATER TI	REAT	MENT	PLAN	√T – C	LEARWEL		
PILE	PILE	DEPT	FINAL	FIN,	DES.	AC	PILE	FIN	I IAL S	ET			
E NUMBER	LE LENGTH	DEPTH PREBORED	AL TOP ELEV.	FINAL TIP ELEV.	DES. CUTOFF ELEV.	ACT. CUTOFF ELEV.	PLUMBNESS	1 ST SET	2 ND SET	3 RD SET	M	JFACTUI ARKING RE-DRIV	S
403	16	2.4	231.608	215.608			1	20	15	10	1434	June	15,65
283	16	2.8	231,878	215,578			7	20	15	15	1428	, ,	.05
276	16	3,7	231.734	215.734			1	22	15	10	1425		
277	16	3,4	231.835	215,835			J	21	19	17	1427	,	
284	16	3:7		215,676			J	20	17	15	1395	SJune	14.05
273	<i>jb</i>	3.7	231,732	215,732			/	21	19	17	1393	, u	
274	16	3.7	231.757	215,757			1	20	20	17	1394	, i	-ai(
275	16	3,7	232.18	216.184			\checkmark	21	17	15	1396	v	
287	16	3.7	231.499	215,499			/	20	17	13	1420	June	15.05
286	16		231,216	215,216			1	15	14	10	1430	ū	

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INSPECTOR: R. Bul-

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	ÐE		th Teo		PILE D	RIVINO	G RE	COF	RDS	D	ATE: Ju	Jy26.05
			THE CITY	OF WINN	NIPEG – V	VATER TI	REAT	MENT	PLAN	T – C	LEARWEL	
		D	T	H	DH		P	FIN	AL S	ET		
PILE	PILE	EPT	INA	/NI¢	S. C	AC	PILE					
		DEPTH PREBORED	FINAL TOP ELEV	FINAL TIP	DES. CUTOFF ELEV	ACT. CUTOFF ELEV.	PLUMBNESS					
NUMBER	LENGTH	TEB	OP E	IP E	OFF	UTC EV.	IMB	-	2 ND	3RD		JFACTURERS
3ER	TH	ORI	LEV	ELEV	ELI)FF	NES	1 ST S	1.			ARKINGS RE-DRIVEN
		D		1.	ΞV.		Sis	SET	SET	SET		
285	16	1400	June 14.05									
269	16	2.9	231,547	215.547			V	19	17	15	1246	June 14.05 June 07.05
270	16	12.48	u									
290	16		231.691 231,352	215,352			1	20	15	10	-	June 08,05
289	16	3. U	231,584	215,584			1	21	15	10	Q45	
271	16	3.0	231.687	215,887			~	20	15	15	1280	, June 08.05
288	16		231,626				1	15	10	15	1242	June 07, 05
272	16	3.0		215.857			1	19	17	15	1200,	June cb.03
291	16	3.2	231.401	215,401	1		1	20	15	13	ROG	
266	16			215.362	*		1	21	19	17	12.86	June 08,05
	•	FOL	LOWER USE	ED, REFUSAI	L CRITERIA	INCREASE	D 50%.					
	PILE #					COMMENT	rs					
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INSPECTOR: R. Blul

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	E				PILE D	RIVING	RE	COF	RDS	D.	ATE: July 26.05
		,	THE CITY	OF WINN	NIPEG – W	ATER TH	REATI	MENT	PLAN	$\mathbf{T} - \mathbf{C}$	LEARWELL
PILE	PILE	DEP	FINAL	FINAL	DES.	A	PILE	FIN	AL S	ET	
E NUMBER	LE LENGTH	DEPTH PREBORED	AL TOP ELEV.	AL TIP ELEV.	DES. CUTOFF ELEV.	ACT. CUTOFF ELEV.	PLUMBNESS	1 ST SET	2 ND SET	3 RD SET	MANUFACTURERS MARKINGS R = RE-DRIVEN
294	16	3.0	231,464	215.646			1	20	15	10	1280, June 08.05
267	16	3.0	231,711	215.711	•		1	23	19	17	1215, June 07,05
268	16	3,2	231,468	215,460			1	21	17	15	1282, Jun 08.05
293	16	3.0	231) 231.504	215,504)	19	17	17	1283, "
292	16			215,536			1	23	2)	19	1367, June 13,09
263	16	3.1	231,448	215,448			1	21	19	17.	1287 June 08,05
297	16	3.0	231.308	215,308			/	20	17	13	1247, June 07,05
296	16		231,344				1	21	90	17	1179, June 02,05
264	16	3.0	231.568	215.508			1	19	13	5	1281, June 08.05
295	16	- 0		215.647			\checkmark	20	17	15	1186 June 02.0

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INSPECTOR: R Blub

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		Ð				PILE D	RIVING	RE	COF	RDS	D	DATE: July 26.05
				THE CITY	OF WIN	NIPEG – V	VATER TI	REAT	MENT	PLAN	T - C	CLEARWELL
	PILE	PILE	DEPT	FINA	FIN,	DES.	AC	PILE	FIN	AL S	ET	
	E NUI		'H PRE	AL TOP	FINAL TIP	CUTOFF	ACT. CUTOFF ELEV.	PLUN				MANUFACTURERS
	NUMBER	LENGTH	DEPTH PREBORED	FINAL TOP ELEV.	ELEV.	'F ELEV.	roff ′.	PLUMBNESS	1 ST SET	2 ND SET	3 RD ·SET	MARKINGS R = RE-DRIVEN
	265	16	2.4	231.344	215.344			/	19	15	13	1182, June 02.05
	260	16	30	231.324	215,32	k		1	21	15	9	1204, June 06, 05
	300	16	3,1	231.327	215,327			~	19	13	10	1401, June 14, 05
大学	299	16	3.0	231,344	215,344			V	19	15	5	1402, June 14
	261	16	3.D	231.393	215.39	5		J	21	17	15	1399, "
	262	16	2.9	231,405	215,40	5		1	20	15	10	1397, "
	298	16	3,1	231,267	215,267			V	20	20	20	1424, June 15,05
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PAGE#40F4 INSPECTOR: CEmb

) E		thTeo		PILE D	RIVING	RE	COF	RDS	D	ATE:	July 27.05
			THE CITY	OF WINN	NIPEG – W	ATER TH	EAT	MENT	PLAN	NT – C	LEARWE	ELL
PILE	PILE	DEPTH	FINAL	FINAL	DES.	A	PILE	FIN	I IAL S	ET		
E NUMBER	LE LENGTH	TH PREBORED	AL TOP ELEV.	AL TIP ELEV.	DES. CUTOFF ELEV.	ACT. CUTOFF ELEV.	PLUMBNESS	1 ST SET	2 ND SET	3 RD SET	1	NUFACTURERS MARKINGS = RE-DRIVEN
256	16	3.1	231.890	215.890			1	20	17	15	1366	June 13,05
303	16	3.0	231,626	215.626			/	23	19	15	1239	June 07,05
257	16	3.0	231783	215.783	1		1	21	17	10	1398	June 14 05
302	16	2.8	231.558	215.558			/	23	17	56	1207	, June 06,05
258	16	3.0	231.636	215636			1	19	10	5	1369	June 13 05
259	16	1		215.55			1	23	17	13	1368	, vi 2
301	16	3.0	231,46	215,461			V	21	19	15	NA)
304	16	3.0	231,715	215.715			V	23	19	15	1181	June 02,05
533	17		233,298	216.298		-	V	23	રત્ર	20	1945	July 15,05
529	17	3.0	233.169.	216.169			\checkmark	23	20	17	1947	U U

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			THE CITY	OF WIN	NIPEG – V	VATER TI	REAT	MENT	PLAN	VT - C	LEARWELL
PII	PILE	DEPT	FINAL	FIN,	DES.	AC	PILE	FIN	IAL S	ET	
PILE NUMBER	LE LENGTH	DEPTH PREBORED	AL TOP ELEV.	FINAL TIP ELEV.	DES. CUTOFF ELEV.	ACT. CUTOFF ELEV.	PLUMBNESS	1 ST SET	2 ND SET	3 RD SET	MANUFACTURERS MARKINGS R = RE-DRIVEN
528	17	29	233,196	216,196			1	24	20	16	1946, July 15
474	17		233,184		1		1	21	21	21	1948, "
473	17	3.2	233.111	216.111			1	17	9	7	194?, July 14
472	17	3.0	233,148	216.148	3		1	191	14	13	1927, "
471	17	3.0	233.108	216.108			1	24	15	11	1925 "
446	17	3.0	233.092	216.072	L.		1	15	7	5	NA piles installed
445	17	30	233.013	216,013				21	7	7	" upside down,
442	17	3.0	233.042	216.042			1	19	7	5	"instructed contract
441	17	3.1	233.123	216,122	þ		1	21	15	12	" do correctly
440	15	3.0	230.936	215.931	c		J	19	17	15	1751, July 04,05

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) E		thTeo ernational Ltd. C		PILE D	RIVING	G RE	COF	RDS	D	ATE: -<	July 27,05
			,	THE CITY	OF WIN	NIPEG – W	ATER TH	REAT	MENT	PLAN	T – C	LEARWE	
	PIL	PILE	DEPT	FINA	FIN,	DES. (AC	PILE	FIN	IAL S	ET		
	PILE NUMBER	E LENGTH	DEPTH PREBORED	FINAL TOP ELEV.	FINAL TIP ELEV.	DES. CUTOFF ELEV.	ACT. CUTOFF ELEV.	PLUMBNESS	1 ST SET	2 ND SET	3 RD SET	N	UFACTURERS IARKINGS RE-DRIVEN
	415	15	29	230,819	215,819			1	19	17	10	1957	July 04.05
*	414	17	3.0	228,625	211.625	>		J	21	21	19		, (
	413	17	3.0					1	17	15	7	NA	
	412	16	3.0	231.643	215,643			1	21	14	9	1180	June 02,05
	41(16	2.8	232.167	216,167			1	20	15	1(1303	June 02,05 June 09,05
	468	16	3.0	231.650	215,650			1	19	13	9	1248	June 07.05
	410	16	3.0	231.867	215,867			1	18	16	15	1241	(1
1	409	16	3,0	227.943	211.943			1	20	20	17	1306,	June 09.05
2	402	16	3.0	231.525	215,525			1	20	17	15	1340	June 10.05
	470	15	3.0	231.066	216.066			V		12	5	1752	July 07,05
		*	FOL	LOWER USE	CD, REFUSA	L CRITERIA	INCREASE	D 50%.					
		PILE #					COMMENT	°S					
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	ÐE				PILE D	RIVING	RE	COF	RDS	D	ATE: July 27,05
					NIPEG – V	VATER TH	REATI	MENT	PLAN	VT – C	LEARWELL
PILE	PILE	DEPT	FINAL	FINAL	DES. (AC	PILE	FIN	i IAL S	ET	-
E NUMBER	E LENGTH	EPTH PREBORED	L TOP ELEV.	AL TIP ELEV.	DES. CUTOFF ELEV.	CT. CUTOFF ELEV.	PLUMBNESS	1 ST SET	2 ND SET	3 RD SET	MANUFACTURERS MARKINGS R = RE-DRIVEN
447	15	3.0	231.040	216.040)		V	15	09	5	1755, July 04,05
444	15	3.0	231,120	216.120	د		J	17	14	9	1727, June 30,05
443	15	29	231,239	216.230	1		/	20	13	11	1751 July 04.05
475	15	3.1	231,122	215,127	2		~	19	11	5	1754,
476	15	3.0	231.031	215.03			1	15	10	5	1726, June 30,05
469	15		230,960				\checkmark	15	9	7	1725 "
535	15	3.0	231,506	215.50	6		J	19	15	10	1736, July 04 05
532	15	3.0	231.476	215476	,		1	22	20	18	1728, June 30,0
530	15	3.0	231.966	215966	2		1	19	17	15	1762, July 04,0
527	15	3.1	231, 823	Contraction of the second s	the second s		/	17	10	3	1761, "
	•	FOL	LOWER USE	ED, REFUSA	AL CRITERIA	INCREASE	D 50%.				
	PILE #					COMMENT	S				

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PAGE # 4 OF 5

) E				PILE D	RIVING	G RE	COF	RDS	D	ATE: July 27.05
			THE CITY	OF WINN	VIPEG – W	ATER TI	REAT	MENT	PLAN	T - C	LEARWELL
PILE	PILE	DEPT	FINAL	FIN.	DES.	A	PILE	FIN	AL S	ET	
E NUMBER	LE LENGTH	DEPTH PREBORED	AL TOP ELEV.	FINAL TIP ELEV.	DES. CUTOFF ELEV.	ACT. CUTOFF ELEV.	PLUMBNESS	1 ST SET	2 ND SET	3 RD SET	MANUFACTURERS MARKINGS R = RE-DRIVEN
879	16	3,6	232.188	216,188			V	17	13	13	133] June 10,05
566	6)	3.6	232,586	216.586			\checkmark	11	8	5	1342, "
565	16	3.4	232,777	216.777			\checkmark	21	9	7	1338 , "
561	15	3.5	231,400	215.400			~	21	20	17	1760, July 0405
562	15	4.0	231267	215,267			1	23	17	15	1758, "
563	15	0		215.800			~	21	19	13	1753, "
564	16	3.9.	232,707	216.707			1	21	17	16	1203, June 03.05
534	16	4.0	232,742	216,742	L		1	90	19	15	1337, June 10,05
						/					
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PILE #	COMMENTS	
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page#5 of 5

INSPECTOR: R.B.J.

	UIV	ÐE				PILE D	RIVING	RE	COF	RDS	D.	ATE: July 28.05
				ALIGHTER COLORISA		NIPEG – W	ATER TH	REAT	MENT	PLAN	T - C	LEARWELL
	PILE	PILE	DEPT	FINA	FINAL	DES. (AC	PILE	FIN	ALS	ET	
	E NUMBER	E LENGTH	DEPTH PREBORED	FINAL TOP ELEV.	TIP ELEV.	CUTOFF ELEV.	ACT. CUTOFF ELEV.	PLUMBNESS	1 ST SET	2 ND SET	3 RD SET	MANUFACTURERS MARKINGS R = RE-DRIVEN
	878	16	4.0	232.523				/	21	19	17	1302, June 09, 05
	881	16	3.9	232.707	216.707			/	23	20	19	1302, June 03.05 1206, June 03.05
	880	16	4.0	232,173	216.173			1	23	21	20	1 Participa
	915	16	4.0	232.112	216,112			J	23	21	17	1301 June 09.05
	916	16	3.9	231,936	215.936	,		\checkmark	21	15	10	1205, June 03.05
	913	16	3.9	232,865	216,865			/	15	7	5	1341, June 10.05
	917	16	4.0	231.944	215.944			1	18	7	5	1208 June 03,05
(918	16	4.0.	231,689	215.689				19	15	8	1309, June 09.05
	953	16	39	231,397	215.397			/	21	19	13	1207, June 03,05
;995	996	16	4.0		214.08	the second se			20	15	13	1210, "
	-	•	FOL	LOWER USE	D, REFUSA	L CRITERIA	INCREASE	D 50%.)
1		PILE #					COMMENT	'S				
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PAGE# 1 OF S



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) E	1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	thTeo ernational Ltd. Co		PILE	Dł	RIVING	RE	COF	RDS	D.	ATE: July 28,05
					and the second second second second	NIPEG –	W	ATER TR	EATI	MENT	PLAN	T - C	LEARWELL
"(PI	PJ	DEP	FINAL	FIN	DES.		А	PILE	FIN	AL S	ET	
	PILE NUMBER	PILE LENGTH	DEPTH PREBORED	TOP	FINAL TIP I	CUTOFF ELEV		ACT. CUTOFF ELEV.	E PLUMBNES		N)	3	MANUFACTURERS
	ÍBER	GTH	BORED	ELEV.	ELEV.	FELEV.		OFF	BNESS	1 ST SET	2 ND SET	RD SET	MARKINGS R = RE-DRIVEN
	994	16	4.0	231,380	214.380				\checkmark	21	15	7	1209, Sune 06,05
	996	16	4.0	230,179	214.179				\checkmark	22	15	12	12.06, "
	993	16	4.0	230,697	215,697				/	23	19	15	1244, June 10,05
	956	16	4.0	230,817	214.877				V	21	17	15	1246, June 07,05
	955	16	4.0	231,019	215.019					23	19	14	1308, June 09.05
FUSAR	954	16	4.0	226,856	210.85	4			NO	RI	EFU	ISAL	-1303, "
	958	16	4.0	251.000	215,000				/	23	17	10	1284, June 07.05
((957	16	4.0	230.765	214.765				1	19	13	10	1201, June 03.05
*	2992	16	3:7	236,567	21\$150	2			~	21	17	10	1202, June 05, 35
	999	16		230,334					J	23	15	12	1185, June 02.05
	4.	•	FOL	LOWER USE	CD, REFUSA	L CRITER	IA	INCREASEI	0 50%.				

PILE #	COMMENTS	
		24

PAGE # 20F 5

INSPECTOR: RB

				_							
	E	ar		ch	PILE D	RIVING	RE	COF	RDS	D	ATE: July 28/05
		<u>, 1100 III</u>	THE CITY	OF WINN	VIPEG – V	VATER TH	REAT	MENT	PLAN	T - C	LEARWELL
PILE	PILE	DEP	FINA	FIN	DES.	A	PILE	FIN	AL S	ET	
LE NUMBER	LE LENGTH	DEPTH PREBORED	FINAL TOP ELEV.	FINAL TIP ELEV.	DES. CUTOFF ELEV.	ACT. CUTOFF ELEV.	PLUMBNESS	1 ST SET	2 ND SET	3 RD SET	MANUFACTURERS MARKINGS R = RE-DRIVEN
998	16	3.7	230,180	214,180			~	21	18	17	1200, June 03,05
914	01	39	232 545	216.545			V	23	17	13	1205, "
919	16	4.0	231.927	215.927			V	13	9	7	1243, June 10,05
920	lb	4.0	231.892	215.892			V	17	15	15	1202, June 03,05
952	16	4.0	231,642	215.642			\checkmark	19	17	13	1183 June od 05
959	16	4.0	231,256	215,256			V	22	10	12	1339, June 10,05
954A	18	1		215.227			p.	19	(6	15	1756, Nov 8,04
26	16			216.039			1	23	19	17	1202, June 06,05
37	16			a16,059			\checkmark	21	15	7	1102, May 02,05
28	16			215.989			\checkmark	20	11	4	1339, June 11,05

PILE #	COMMENTS	
* 52 ²		11 (),
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PAGE#3 OF 5

INSPECTOR: R. Blub

	E				PILE D	RIVING	G RE	COF	RDS	D	July 28,05
					NIPEG – W	ATER TI	REAT	MENT	PLAN	T - C	LEARWELL
PILE	PILE	DEP	FIN,	FIN	DES.	A	PILE	FIN	I IAL S	ET	
E NUMBER	LE LENGTH	DEPTH PREBORED	FINAL TOP ELEV.	FINAL TIP ELEV.	DES. CUTOFF ELEV.	ACT. CUTOFF ELEV.	PLUMBNESS	1 ST SET	2 ND SET	3 RD SET	MANUFACTURERS MARKINGS R = RE-DRIVEN
25	16	3,5	232,477	216,477			1	17	9	3	1204, June 05,05
24	16		232,496				1	21	21	19	1204, June 05,05 1203, June 06,0
29	16	3.2	232.128	216.128			1	23	22	2	1307, June 09,05
23	16	01		216.278			V	21	17	19	1305, "
22	16	3,3	232.484	216.484			1	20	17	15	1154, June 01.05
21	16			216.600		1	1	21	19	15	1188, June ad. 05
30	15	1		216.252	_		1	17	15	10	1733, June 30,05
31	15			216.525			J	21	15	13	1736
32	15	1.		216,526			~	23	19	17	1702, June 29,05
20	16			216.820			1	21	15	13	1187\$, June 25,05
	0	FOL	LOWER USE	CD, REFUSAL	CRITERIA	INCREASE	D 50%.				
	PILE #					COMMENT	rs				

page#40f5

INSPECTOR: FBLul

) E	A Tyco Int		ompany		RIVING					ATE: July 28,05
			THE CITY	OF WINN		VATER TI	1	MENT	PLAN	T - C	LEARWELL
PILE N	PILE L	DEPTH PI	FINAL TO	FINAL T	DES. CUT	ACT. C EL	PILE PLU	FIN	AL S	ET	
PILE NUMBER	LENGTH	DEPTH PREBORED	FINAL TOP ELEV.	FINAL TIP ELEV.	DES. CUTOFF ELEV.	ACT. CUTOFF ELEV.	PLUMBNESS	1 ST SET	2 ND SET	3 RD SET	MANUFACTURERS MARKINGS R = RE-DRIVEN
19	15	3,5	231,956	215,956	>		1				1734, Jure 30,05
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						\backslash					
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	•	FOL	OWED USE	D, REFUSAL	CRITERIA	INCREASE	0.50%				
[PILE #			D, REFUSAL		COMMENT					
								1			

page # 5 of 5





DATE: July 29.05

THE CITY OF WINNIPEG - WATER TREATMENT PLANT - CLEARWELL

PI	PI	DEP	FINAL	FIN	DES.	А	PILE	FIN	AL SI	ET		
PILE NUMBER	PILE LENGTH	DEPTH PREBORED	AL TOP ELEV.	FINAL TIP ELEV.	DES. CUTOFF ELEV.	ACT. CUTOFF ELEV.	PLUMBNESS	1 ST SET	2 ND SET	3 RD SET	MA	FACTURERS RKINGS E-DRIVEN
33	15	3.5	231,388	216,388		÷	1	21	21	21	17	June30,05
34	15	3.5	231,546	216.546			<i>`</i> √	19	15	20	1724	ο ι <i>ζ</i>
35	15	3,2	231,779	216,779			1	20	20	19	1722	, , ,
36	15	0.7	231.114				J	20	17	7	1720) ((
37	15	34	231,208	216,208			~	23	15	5	1735	<i>i'</i>
18	15			215,959			\checkmark	15	11	10	1731,	1.0
17	15	3.5	231.949	215,949			v	15	9	7	1732,	ام
16	15	3.7	231,947	215.947			1	22	11	7	1719,	14
15	15	3,2	231.927	215.927			~	19	15	8	1724,	(L
14	15	3.4	231.959	a15.959			V	21	15	15	1703	June 29.05

FOLLOWER USED, REFUSAL CRITERIA INCREASED 50%.

PILE #

COMMENTS

PAGE # 1 OF 4

INSPECTOR: R. BUL

		ÐE			21	PILE D	RIVING	RE	COF	RDS	D	ATE: July 29,05
				THE CITY	OF WIN	NIPEG – W	ATER TH	REAT	MENT	PLAN	T – C	LEARWELL
	PILE	PILE	DEPTH	FINAI	FINAL	DES. CI	ACT	PILE I	FIN	AL S	ET	
	NUMBER	LENGTH	DEPTH PREBORED	FINAL TOP ELEV.	L TIP ELEV.	CUTOFF ELEV.	ACT. CUTOFF ELEV.	PLUMBNESS	1 ST SET	2 ND SET	3 RD SET	MANUFACTURERS MARKINGS R = RE-DRIVEN
	13	15	3.0	231,969	215.969			1	16	11	D	1721, June30,05
	12	15	2.7	232,088	217.088			1	2	5	5	1696, June 28,05
	38	15	3.2	232.311	217,311			~	25	24	24	1706, June 30,05
	39	15	3.0	232.048	217,048			\checkmark	18	26	18	1695, June 28,05
	40	15	3,4	237.138	217,138	8		1. K	19	17	13	1705, June 29,05
	41	15	3.0	231.953	216.95	3		/	21	17	15	1697 June 28,05
17	42	15	3.2	230.982	215,982	2			21	15	3	1689, "
K	43		3.4	229,852	215,85	2			17	21	17	1694, "
	11			231.714				<i></i>	19	17	15	104, June 29.05
	10	15	3, 1 - FOL	232,/05 Lower use	217,105 D, REFUSA	L CRITERIA	INCREASE	✓ D 50%.	20	17	15	NA
	3	7(` PILE#					COMMENT	S				
						- 1. Con	1					
			1. 	;.4 ; :	x		23					PAGE#2 OF
						••	6	IN	SPEC	CTOR	R	Bula
	INSPECTOR: REful											

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PILE DRIVING RECORDS

DATE: July 29,05

THE CITY OF WINNIPEG - WATER TREATMENT PLANT - CLEARWELL

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P	DEP	FIN	FIN	DES.	А	PILI	FIN	AL SI	ET	
ILE LENGTH	TH PREBORED	AL TOP ELEV.	VAL TIP ELEV.	CUTOFF ELEV.	CT. CUTOFF ELEV.	E PLUMBNESS	1 ST SET	2 ND SET	3 RD SET	MANUFACTURERS MARKINGS R = RE-DRIVEN
15	3.4	231.793	216.793			\checkmark	17	13	11	1701, June 28,05
15	3.2	231,975	216.975			/	16	15	13	1700, "
15	3.7	231:344	216.344			~	21	15	7	1692, "
16	3.7	231.998	215.998			1	19	1)	3	1119, May 30.05
16	3.9	232.360	216.360			1	17	17	17	1126, "
16						1	17	15	9	1162, June 01.05
16	4.0	232.040	216.040			1	21	11	9	1140, May 30.05
16	3.7	230.833	214.833			~	20	19	M	1102 May 29.05
16	3.8	231.320	215.320			V	13	6	7	NA.
16	3.9	231.994	215.994			/	21	20	19	1139, May 31.05
	15 15 15 16 16 16 16 16	LENGTH 15 3.4 15 3.7 16 3.7 16 3.7 16 3.7 16 3.7 16 3.7 16 3.7 16 3.7 16 3.7 16 3.9 16 3.9 16 3.9	15 3.4 231.793 15 3.2 231.975 15 3.7 231.344 16 3.7 231.998 16 3.9 232.360 16 3.7 232.574 16 4.0 232.040 16 3.7 230.833 16 3.8 231.320 16 3.9 231.994	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$						

FOLLOWER USED, REFUSAL CRITERIA INCREASED 50%.

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PILE #	COMMENTS	
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PAGE # 3 of 4

INSPECTOR: R. Bluh

Ð	EarthTech	
	A Tyco International Ltd. Company	

DATE:	50	-
July	29.0	55

THE CITY OF WINNIPEG - WATER TREATMENT PLANT - CLEARWELL

									1		
PI	PI	DEP	FIN	FIN	DES.	A DES.		FIN	AL SI	ET	
PILE NUMBER	PILE LENGTH	DEPTH PREBORED	FINAL TOP ELEV.	FINAL TIP ELEV.	DES. CUTOFF ELEV.	ACT. CUTOFF ELEV.	PILE PLUMBNESS	1 ST SET	2 ND SET	3 RD SET	MANUFACTURERS MARKINGS R = RE-DRIVEN
48	15	4.0	231.359	216,359			V	24	19.	15	1667, June27.0
03	16	4.0	232.093	216.093			1	21	17	15	1667, June27.0
01	16	3.7	231,708	215.708			×205	20	11	6	1104, "
49	16	3,7	231,885	215.885			~	17	15	12	1099 11
									- 25		
	.,										
	•	FOL	LOWER USE	ED, REFUSAL	CRITERIA						a.
	PILE #					COMMENT	rs				

page#40f 4

INSPECTOR: RBW



DATE: aug. 03.05

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THE CITY OF WINNIPEG - WATER TREATMENT PLANT - CLEARWELL

DES. CUTOFF ELEV PILE FINAL SET DEPTH PREBORED FINAL TOP ELEV FINAL TIP ELEV. ACT. CUTOFF ELEV. PILE PILE NUMBER PLUMBNESS LENGTH MANUFACTURERS 2^{ND} 3RD TST MARKINGS R = RE-DRIVENSET SET SET 9 C 1 9 1658. 3.7 231.260 216.260 18 21 17 June 27.05 5 Ì 1 165 15 all. 20 11 231.106 216,106 3 1636 10 15 4.0 231.106 216.106 June 24.05 15 1630 15 21 3.7 231.091 215.091 11 .. 5 19 V 11) uned 1,09 3./231.012216,012 55 24 23 4.0 416 21 231.771215.77 120 50,00 110 23 435 3.7 231.873 215.873 2 21 16 084 6.05 E.S. 1199 15 432 39 21 232.026 216.026 17 ine 03.05 430 19 15 1 17 108 6 232.000 216.00b 05 24 1101 1.00 39 232.027216.02 FOLLOWER USED, REFUSAL CRITERIA INCREASED 50%. COMMENTS PILE# . et. 45 . x PAGE # / OF 2

Ð	EarthTech	
	A Tyco International Ltd. Company	



THE CITY OF WINNIPEG - WATER TREATMENT PLANT - CLEARWELL

1			THE CITT	OF WILL							
PI	P	DEP	FIN	FIN	DES.	A	PILE	FIN	AL SI	ET	
PILE NUMBER	PILE LENGTH	DEPTH PREBORED	FINAL TOP ELEV.	FINAL TIP ELEV.	DES. CUTOFF ELEV.	ACT. CUTOFF ELEV.	E PLUMBNESS	1 st set	2 ND SET	3 RD SET	MANUFACTURERS MARKINGS R = RE-DRIVEN
417	16	3.9	232,281	216.284			V	19	10:	3	1085, May 26.05
409A	18.5	3.9	232,980	25.980	,		1	15	10	7	1085, May 26.05 1998, July 19.05
					/						
					/						
				/	/						
	1.000										
	-			/							
		FOI	LOWER US	ED, REFUSA	L CRITERIA	INCREASE	ED 50%.				
	PILE #		/			COMMEN	TS				~ .
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EarthTech

PILE DRIVING RECORDS

DATE:

aug. 09.05

E CITY OF WINNIPEG - WATER TREATMENT PLANT - CLEARWELL

			1	THE CITY	OF WINN	IPEG – W	ATER TR	EATN	IENI	PLAN	1 - CI	LEARWELL
	PI	p	DEP	FIN	FIN	DES.	A	PILE	FIN	AL SI	ET	
	PILE NUMBER	PILE LENGTH	DEPTH PREBORED	FINAL TOP ELEV.	FINAL TIP ELEV.	DES. CUTOFF ELEV.	ACT. CUTOFF ELEV.	E PLUMBNESS	1 ST SET	2 ND SET	3 RD SET	MANUFACTURERS MARKINGS R = RE-DRIVEN
	468	16	3.5	231.897	215.897			V.	i7	10.	10	1160, June 01.05
478	478	16			215.889			1	19	10	13	1087, June 26.05
479	466	lb	3.5	231,956	215.956			1	21	17	10	1080, "
ж. Т	466	16	3.5	231972	215.972			2%	21	10	3	1107, May 27.05
	467	16	3.5	231911	215.911			1%	17	10	3	1165, June 01.05
	468	16	3.5	231999	215,909			15%	17	10	3	1142, May 31.05
4	418-	16	3.5	231.866	215.866			1	15	7	5	1125, May 30.05
	399	lb			216.199			1	21	17	9	1061 May 25.05
	400	16	35	231913	215.913		44		21	15	10	1059, "
¢.	398	16	3,5	232,133	216.133			1	20	17	13	1128 May 30.05

FOLLOWER USED, REFUSAL CRITERIA INCREASED 50%.

PILE# COMMENTS piles arrived. 8:32 Precillina for piles until 8:15 waitane begin NO -

PAGE# | OF 5





THE CITY OF WINNIPEG - WATER TREATMENT PLANT - CLEARWELL

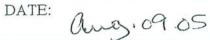
PI	P	DEPTH	FINAL	FIN	DES.	A	PILE	FIN	AL SI	ET	
PILE NUMBER	PILE LENGTH	TH PREBORED	AL TOP ELEV.	FINAL TIP ELEV.	CUTOFF ELEV.	ACT. CUTOFF ELEV.	E PLUMBNESS	1 ST SET	2 ND SET	3 RD SET	MANUFACTURERS MARKINGS R = RE-DRIVEN
419	16	3.7	232,019	216.019			J,	17	15	×	1028, May 26.05
432	16	3.7	231.847	215.847			V	21	Π	11	1063 , "
43	16	3,7	231.784	215.784			V	17	15	15	1060 , "
430	16	3.7	231.815	215,815			J	19	15	5	1082, "
425	ilo	3.7	231.862	215.862			1	19	17	15	1083 "
426	16	3.9	231.828	2 15.828			1	17	13	11	1047 May 27.05.
424	16		1.	215,924				24	19	17	1104, June dois
450	16	3.4	232.033	216033				21	15	5	1043 May 24.05
451	16	3.6	232.067	216.067	ð. ₁₈		1	13	9	7	1081, May 26.05
452	16	The second second second	the second s	216.057	the second se		J	17	13	5	1025, May 24.05
	•	FOL	LOWER USI	ED, REFUSAI	L CRITERIA	INCREASE	D 50%.				•

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THE CITY OF WINNIPEG - WATER TREATMENT PLANT - CLEARWELL

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PI	Р	DEP	FINAL	FIN	DES.	A	PILE	FIN	FINAL SET		
PILE NU	PILE LEI	TH PRE		FINAL TIP	CUTOF	ACT. CUT ELEV.					MANUFACTURERS
NUMBER	LENGTH	DEPTH PREBORED	TOP ELEV.	ELEV.	DES. CUTOFF ELEV.	CUTOFF LEV.	PLUMBNESS	1 ST SET	2 ND SET	3 RD SET	MARKINGS R = RE-DRIVEN
453	16	3,7	231.964	215.964			J	20	17	9	1127 May 30.05
454	16		231,855				V	21	17	3	1125, May 27,05
429	16	3.9	231.757	215.757	£		1	24	17	11	1145, May 31,05
455	16	3.8	232.178	216.178			/	23	19	17	1044, May 24.05
480	16		232.023				J	20	11	3	1080, May 26.05
:481	16	3.8		NA			1	17	13	5	1124, May 30.05
482	16	3,1	231,980	215.980			~	15	9	2	1166, June 01.05
483	16	3.8	232.030	216.030			J	17	13	10	1121, May 30,05
44	16	3,7	*				1	15	10	3	1143, May 31.05
485	16	3.7	232.011	216.011			\checkmark	22	21	19	1167, June 07.05

FOLLOWER USED, REFUSAL CRITERIA INCREASED 50%. •

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THE CITY OF WINNIPEG - WATER TREATMENT PLANT - CLEARWELL

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PI	Ы	DEPTH	FINAL	FINAL	DES.	A	PILE	FIN.	NAL SET		
PILE NUMBER	PILE LENGTH	TH PREBORED	AL TOP ELEV.	AL TIP ELEV.	DES. CUTOFF ELEV.	ACT. CUTOFF ELEV.	PLUMBNESS	1 st set	2 ND SET	3 RD SET	MANUFACTURERS MARKINGS R = RE-DRIVEN
465	16	3.8	232.01	216.011			1	15	9.	3	1148, May 31.05
464	16	3.7	232,096	216.096			1	19	B	7	1020 May 20.05
463	16	3.8	232,046	2116 046			\checkmark	20	15	13	1144, May 31.05
462	16	3,7	231.947	a15947				20	18	17	1041, May 24.05
461	16	3.8	231.824	215.824			V	21	17	15	1014, May 20.05
460	16	122 222		2 15.96			~	19	15	9	1024, "
459	16	3.5	231.966	215:166			1	20	15	1	1141, May 31.05
486	16	3.9	231.980	215.980			V	21	15	8	1026, Mary 20.05
456	16	3:7	231,912	215.912			1	23	19	17	1146, May 31.05
376	16	3.9	231,570	215,570			1	21	15	16	1101 July 1

FOLLOWER USED, REFUSAL CRITERIA INCREASED 50%.

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COMMENTS PILE #

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THE CITY OF WINNIPEG - WATER TREATMENT PLANT - CLEARWELL

PI	PJ	DEP	FINAL	FIN	DES.	A	PILE	FIN	IAL SET		
PILE NUMBER	PILE LENGTH	DEPTH PREBORED	AL TOP ELEV.	FINAL TIP ELEV.	DES. CUTOFF ELEV.	ACT. CUTOFF ELEV.	PLUMBNESS	1 st set	2 ND SET	3 RD SET	MANUFACTURERS MARKINGS R = RE-DRIVEN
380	16	3.9	231.616	215.616			1	21	17.	9	1123, May 30.05
379	16	3.8	231,526	215.526			1	17	16	(1	1123, May 30.05 1103, May 27.05 1012), May 20.05
377	16	3.8	231,497	215.497			1	21	15	7	1012), Muj 20.05
378	16	3,8	231,775	215,775				20	17	5	1023 "
											in the second
	•	FOL	LOWER US	ED, REFUSA	L CRITERIA	A INCREASE	CD 50%.				

PILE#	COMMENTS	

PAGE#50F5

EarthTech	
A Tyco International Ltd. Company	

DATE:

aug. 10.05

THE CITY OF WINNIPEG - WATER TREATMENT PLANT - CLEARWELL

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PII	PI	DEP'	FIN,	FIN	DES.	A(PILE	FIN	AL SI	ΕT	
LE NUMBER	LE LENGTH	TH PREBORED	AL TOP ELEV.	AL TIP ELEV.	CUTOFF ELEV.	CT. CUTOFF ELEV.	PLUMBNESS	1 ST SET	2 ND SET	3 RD SET	MANUFACTURERS MARKINGS R = RE-DRIVEN
73	16	3.7	231.855	215.855			1	23	17.	15	999 May 19.05
14	İlø	3.7	232.264	216.264			1	19	10	3	1168. June 01.05
15	16	3.5	232,305	216.305			1	15	7	3	1163, "
96	16	3.7	231.778	215.778			V	17	13	7	1007, May 19,05
17	16	3.5	232.276	216276			V	11	5	2	1072, May 20,05
20	16	3.7	232,237	216237		jan A	1	15	7	2	1
89	16	3.5	231.576	215.576			1	13	iD	5	988, May 18.05
68	16	3:1					1	19	17	11	987, "
81	16	3,5	231.959	215.959			/	24	16	15	1005, May 19.05
51	16	the second se	the second se	the second se			~	20	13	7	980 May 18,05
		FOL	LOWER USI	ED, REFUSAI	CRITERIA	INCREASE	D 50%.				, ,
	73 74 75 96 77 20 89 89	NUMBER 73 16 74 16 75 16 76 16 77 16 77 16 70 16 81 16 81 16 81 16 81 16 81 16 81 16 81 16	NUMBER 16 3.7 13 16 3.7 14 16 3.7 15 16 3.7 16 3.7 16 3.7 16 3.7 16 3.7 16 3.7 16 3.7 16 3.7 16 3.7 16 3.7 16 3.7 16 3.7 16 3.7 16 3.7 16 3.7 16 3.7 16 3.7 16 3.7 16 3.5 16 3.5 16 3.5 16 3.5 51 16	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	LE I AL TOP I AL TOP ELEV. 13 16 3.7 $231.45522.5855$ 13 16 3.7 $231.45522.5855$ 14 16 3.7 $231.45522.5855$ 14 16 3.7 $231.45252.5855$ 15 16 3.5 $323.3052.5855$ 15 16 3.5 $323.3052.5855$ 16 3.7 $231.45252.5855$ 16 3.7 $232.3052.5855$ 16 3.7 231.778 215.778 20 16 3.7 $231.571.23776$ 81 16 3.7 $231.571.23776$ 51 16 3.5 $231.959.215.9576$ 51 16 3.4	LE TH AL TOP ELEV. CT. CUTOFF ELEV. 13 16 3.7 231.455 215.955 / / 14 16 3.7 231.455 215.955 / / 14 16 3.7 231.455 215.955 / / 15 16 3.5 232.305 216.305 / / 15 16 3.5 232.305 216.305 / / 16 3.7 231.778 216.305 / / 16 3.7 232.3178 215.778 / / 20 16 3.7 232.32 216.237 / / 20 16 3.7 231.778 216.237 / / 21 16 3.5 231.576 2.5576 / / 21 16 3.5 231.959 2.5459 / / 51 16 3.4 231.803 215.459 / / 51 16 3.4	LE ITH AL TIP AL CUTOFF ELEV. PLUMBNESS Ist 13 16 3.7 231.455 215.855 / 23 14 16 3.7 231.455 215.855 / 23 14 16 3.7 231.455 215.855 / 23 14 16 3.7 231.455 215.855 / 15 15 16 3.5 232.305 216.205 / 17 15 16 3.5 232.305 216.205 / 17 16 3.5 232.305 216.205 / 17 17 16 3.5 232.31.778 215.778 / 17 20 16 3.7 23.737 / 15 15 20 16 3.7 23.37 216.237 / 13 20 16 3.7 23.37 216.237 / 13 20 16 3.7 23.1.979 2.15.979 / 24 <td>LE II AL TOP LITIP CT. CUTOFF II II III III IIII IIIII IIIIIII IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII</td> <td>LE H AL TIP LL AL TIP LL 1 st 2 ser $7 s$</td>	LE II AL TOP LITIP CT. CUTOFF II II III III IIII IIIII IIIIIII IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	LE H AL TIP LL AL TIP LL 1 st 2 ser $7 s$

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PAGE# 1 OF 4





THE CITY OF WINNIPEG - WATER TREATMENT PLANT - CLEARWELL

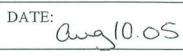
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PI	P	DEP	FIN	FIN	DES.	А	PILE	FIN	AL S	ET			
PILE NUMBER	PILE LENGTH	DEPTH PREBORED	FINAL TOP ELEV	FINAL TIP ELEV.	CUTOFF ELEV	ACT. CUTOFF ELEV.	E PLUMBNESS	1 ST SET	2 ND SET	3 RD SET	M	UFACTURERS IARKINGS RE-DRIVEN	
388	16			2.5.1.5	V.		<i>S</i>		eT 17:		ind	Marzias	VV
389	16			215.715			~	21	17.	9	1003	, May 21.05 May 19,05	0
390	16	1	232.088					12	3	0	1006	1 11	
391	16	3,4	231.877	215.877			1	23	21	17	1008	17	
392	16	3,7	231.853	215.853			V	21	15	6	985,	May 18,05	,
458	16	3,7	231.893	215.893			/	19	13	6	1079,	May 26,05	
42.8	16	3.2	232.059	216.059			1	16	9	5	1065	May 25.05	>
427	16	1		215.860			/	19	15	11	1068	, ,,	
423	16	1		216,021				16	13	7	1039	, Mey 24.05	
422	16	1 2 2 1		216.064			J	21	17	17	1056		

FOLLOWER USED, REFUSAL CRITERIA INCREASED 50%.

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THE CITY OF WINNIPEG - WATER TREATMENT PLANT - CLEARWELL

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PI	PJ	DEP	FIN	FIN	DES.	A	PILE	FIN	IAL SET				
PILE NUMBER	PILE LENGTH	DEPTH PREBORED	FINAL TOP ELEV.	FINAL TIP ELEV.	DES. CUTOFF ELEV.	ACT. CUTOFF ELEV.	E PLUMBNESS	1 ST SET	2 ND SET	3 RD SET	MA	FACTUR RKINGS E-DRIVE	
421	16	3,2	232.186	216,186			/	21	17.	15	983	May	18.05
374	16	37	231,447	215,447			J	90	16	13	1000-	May	19.05
375	16	3.7	231445	215,445			1	24	19	18	1009,	1(
373	16	3,5	231.293	215,293			1	19	11	7	10064	vŀ	
372	16	3.2	231.425	215,425			1	19	15	13	959,	May	17,05
371	16	3,4	231,477	215,477			\checkmark	23	17	10	962,	u	
370	16	34					1	19	7	5	960	Ч	
369	16	3,7	(8)				/	20)	3	964	μ	
368	16	3.7					\checkmark	23	15	13	966	17	
367	16	3.6	231,725	215.725			V	14	9	7	965	ι′	

FOLLOWER USED, REFUSAL CRITERIA INCREASED 50%.

COMMENTS PILE # 4. •

PAGE # 3 OF 4 INSPECTOR:



DATE: aug 10.05

THE CITY OF WINNIPEG - WATER TREATMENT PLANT - CLEARWELL

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PI	P	DEP	FIN	FIN	DES.	A	PILE	FIN	AL SI	ET	
PILE NUMBER	PILE LENGTH	DEPTH PREBORED	FINAL TOP ELEV.	FINAL TIP ELEV.	DES. CUTOFF ELEV.	ACT. CUTOFF ELEV.	E PLUMBNESS	1 st Set	2 ND SET	3 RD SET	MANUFACTURERS MARKINGS R = RE-DRIVEN
:387	16	3:3	231,695	215.695			/	23	([.	7	967, May 17,05
386	16	3.7	231.734	215,734			J	18	l	6	1025 May 20.05
385	16	3.4	231.762	215.762		W	1/3/	19	15	i3	961, May 17.05
384	16	3.2	231,82	215.872			J	20	15	9	981, May 18.05
383	16	3.4	231.880	215.880			\checkmark	15	9	3	1062, May 25.05
382	16	3.3	231,877	215.877			V	17	13	2	964 May 18.05
381	16	3.3	231.777	215.777	s.,		1	19	14	12	918, May 17.05
	•										la l

• FOLLOWER USED, REFUSAL CRITERIA INCREASED 50%.

PILE# COMMENTS

PAGE #4 OF 4

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EarthTech A Tyco International Ltd. Company

PILE DRIVING RECORDS

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			1	THE CITY	OF WINN	IPEG – W	ATER TR	EATN	1ENT	PLAN	1 - CI	EARWEL	
(Б	I		DI		р	FIN	AL SI	-T		
	PILE	PILE	DEPTH	FINAL	FINAL	ES. CU	ACT. E]	PILE PL			-1		
	NUMBER	LENGTH	DEPTH PREBORED	FINAL TOP ELEV.	FINAL TIP ELEV.	DES. CUTOFF ELEV.	ACT. CUTOFF ELEV.	PLUMBNESS	• 1 st set	2 ND SET	3 RD SET	M.	JFACTURERS ARKINGS RE-DRIVEN
	538	16	3.7	232,057	216.057			V	15	10	15	943,	May x1605
•	521	16	3.7	231,934	215,934				19	15	14	947,	May 16.05
	522	16	3.7	231.929	215,929			V	24	17	15	916	ı <i>t</i> .
(2 3)	523	-16	3.7	231.936	2 159.36				15	11	10	979,	May 18,05
	537	16	3.1	232.28	216.289		•	1	25	19	15	1028	, May 20,05
*	524	16	3.7	229.560	213.560				21	20	19	1042	, May 24.05
1	525	16	3.7	231.961	215961				23	20	19	982	Mary 18,05
1 ₁₄	526	16	3.7	232.131	216.131				21	17	.14	1027	, May 20.05
	531	16	3.7	233,004	217,007	•			1.8	16	12	480	, May 1805
	556	16	3.7	232.23	216.237 ED, REFUSA	CRITERI	INCREASE	CD 50%	23	17	13	941	, May 16.05
•		*		LOWER US	ED, KEFUSA	L CRITERI	COMMEN						
	7:2	PILE#	amner	ting 9:	10 unlos	adine, q	Stradine	, p,1	es,(one	Cron	he operat	tor)
	1015	Re	-Hum	meringy	10:30	Hampe	ring						
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PILE DRIVING RECORDS

DATE: aug 11.05

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		2	THE CITY	OF WINN	VIPEG – W	ATER TH	EAT	MENT	PLAN	T - CI	EARWEL	C.	
0.000		D	F	Ŧ	DES.		PI	FIN	AL SI	ET			
PILE NUMBER	PILE LENGTH .	DEPTH PREBORED.	FINAL TOP ELEV.	FINAL TIP ELEV.	S. CUTOFF ELEV.	ACT. CUTOFF ELEV.	PILE PLUMBNESS	1 ST SET		3 RD SET	M	JFACTU ARKINC RE-DRIV	3S
557	16	3.5	232.449	216.449	ď		J	25	15	10	942	, May	16.05
558	16	34	232.761	a16.761	•		10	ai	14	6	939)	•	1
559	16.	3.2	232.842	216:842	•., .	3	1	20	15	7	1120	, Ma	130,0
560	16	3.4	232.77	216777			V	21	17	11.	.948,	May	16.05
536	16	3.7	232.797	216,797			V	15	7	3	945,	Mai	(16,0)
876	16	3.7	232.878	216.878		•	1	17	16	Ò	1048	Mar	124.05
364	16	3.7	232370	216370	4		1	21	13	10	1067	May	25.0
663	.16	3.7	232.670	216,670			V	20	17	11	1040	May	d4,05
877	16	3,5	232,691	216.69 (1	24	21	20	940	Mai	16.05
555	11 -	3.5	231.964	215.964		INCREASE	D 50%	23	19	1)	1		~~*.
-	• PILE#	FOL	•	D, REFUSA	LCRITERIA	GOMMEN				¥'.		3	•
Cuit	ring	7:1	es @ 10	:39, ita	umering	+111 11	:53 .	then	star	diva	& lunch		
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EarthTech A Tyco International Ltd. Company

PILE DRIVING RECORDS

DATE: Aug 11.05 THE CITY OF WINNIPEG - WATER TREATMENT PLANT - CLEARWELL

			THE CITY	OF WINN	n EG		ATER IN						-
PI	р	DEPTH	FINAL	FIN		DES.	А	PILE	FIN.	AL SI	ET		
PILE NUMBER	PILE LENGTH	TH PREBORED	AL TOP ELEV.	FINAL TIP ELEV.	*	CUTOFF ELEV.	ACT. CUTOFF ELEV.	E PLUMBNESS	1 st set	2 ND SET	3 RD SET	MANUFACTURERS MARKINGS R = RE-DRIVEN	
885	16	3.7	232.278	216.278				/	21	17.	16	910, May 13,05	>
911	16	3.	232.336	a114338				1	22	18	17	712, May B.05	
452	16	3,4	232.796	216.796					-	21	35	1047, May 24,05	
912	16	3.4	232.817	216,817				Pow	27	10	7	944, May 16,05	5
924	16	3.2	231.876	215676			約 参す。	1	24	18	15	891, May 12.05	5
922	16	3.4	231.867	215.867				~	20	17	11	908, May 13,05	5
923	16	3,7	231.864	215.864	1			\checkmark	21	15	13	1066, May 25.05	2
921	16	2.7	232,392	216,392					19	10	7	984, May 18,09	2
950	16	3,2	231,780	215,780			j.		27	17	12	909, May 18,0	5
951	16			215,910					20	15	15	892, Mary 12.0	5
		FOL	LOWER US	ED, REFUSA	L CRIT	ERIA	INCREASE	D 50%.					

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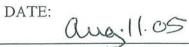
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THE CITY OF WINNIPEG - WATER TREATMENT PLANT - CLEARWELL

			THE CITY	OF WINN	ILF	G - M	ALERIK	LAIN	ILAN I		1 01	BILLE	2
PJ	р	DEPTH	FINAL	FIN		DES.	A	PILE	FIN	AL SI	ET		
PILE NUMBER	PILE LENGTH	TH PREBORED	AL TOP ELEV.	FINAL TIP ELEV.	N.	CUTOFF ELEV.	ACT. CUTOFF ELEV.	E PLUMBNESS	1 ST SET	2 ND SET	3 RD SET	М	JFACTURERS ARKINGS RE-DRIVEN
949	llam	3.2	231.661	215,661				1	23	20.	12	#893	May 12,05
964	16	3.2		1				ſ	24	21	20	904	· (
963	16	3.7	230,789	214.789				J	21	18	15	911	, <i>"</i>
961	16	3.2	231.133	215,133				V	23	21	17	903	May 13,05
962	16	3.7	230.743	214.746				\checkmark	19	17	12	889	May 2.05
991	16	3.5	230,512	215,512				1	19	17	15	893,	
960	16	37	231.149	215,149		÷		/		19	15	394,	ħ
910	16	3.7	232,050	216.050				1 ½n	25	20	11	1313,	June 13,05
925	16	3.9	231,829	215.829				1300	23	17	10	8910	May 12.05
309	16	3.B	231,308	215.308				1	21	15	11	156	Feb. 14.05

FOLLOWER USED, REFUSAL CRITERIA INCREASED 50%.

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	A Tyco International Ltd. Company	



THE CITY OF WINNIPEG - WATER TREATMENT PLANT - CLEARWELL

Р	р	DEI	FIN	FI	DES	A	PILE	FIN	AL SI	ET	
PILE NU	PILE LE	TH PRI	FINAL TOP ELEV	FINAL TIP ELEV.	CUTO	ACT. CUTOFF ELEV.	and the second sec				MANUFACTURERS
NUMBER	LENGTH	DEPTH PREBORED	P ELEV.	ELEV.	DES. CUTOFF ELEV.	TOFF V.	PLUMBNESS	1 ST SET	2 ND SET	3 RD SET	MARKINGS R = RE-DRIVEN
310	16	39	231,369	215.369			V	21	17.	12	907, May 13,05
312	16	3.9	231,361	215.361			\checkmark	19	17	15	906, "
311	16	3.7	231,516	215,516			\checkmark	17	15	10	1314, June 13.05
300	16	3.9	231.631	215,631			1	19	17	17	1314, June 13.05 74, Jan. 21.05 36, Jaw 19.05
307	16	4.2	231,529	215.529			1	20	18	5	36, Jan 19.05
) -%
	4										
					CDIMEDI	INCREASE	ED 509/				
	•		LOWER US	ED, REFUSA	L CRITERIA			• 3			e e e e e e e e e e e e e e e e e e e
	PILE #	1				COMMEN	18				
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	A Tyco International Ltd. Company	

DATE: Augid.05

				THE CITY	OF WINN	IPEG - W	ATER TH	EATI	MENT	PLAN	T - C	LEARWE	LL
Е <u>(</u>			D	F	н	DE		PI	FIN	AL SI	ET		
×	PILE NUMBER	PILE LENGTH	DEPTH PREBORED	FINAL TOP ELEV.	FINAL TIP ELEV.	DES. CUTOFF ELEV.	ACT. CUTOFF ELEV.	PILE PLUMBNESS	1 ST SET	2 ND SET		Ν	IUFACTURERS MARKINGS = RE-DRIVEN
	321	16	3.0	231,247	215.247			\checkmark	23	19	17	905	May 13.05
	320	16	3.0	231.446	215.446			J	19	17	15	847	, May R.05
	319	16	3.9	NA	NA			1	21	17	10	1371,	June 04,05
	313	16	4.2	231.493	215,493			/	19	10	7	NA	June 19.05
*	318	15	3.2	230,436	215,436				21	10	3	1711	Nov1.01
(314)	314	15		230,485					7	1	Õ	1713	, N "
0	316	15	3.2	230,585	215,585	-			9	3	0	1319	, aug 16.04
	317	15	3.4	23'				1	15	7	3	1317	, aug 16.04 , aug 16.04 NN 3,04
	315	15	3.6	230,770	215,770				21	15	10	1760,	NN 3,04
	306	15		230,634	215.63				23	21	19	1740	Aug 2.04
		*		LOWER USI	ED, REFUSAI	L CRITERIA			cm e	6.00		01-02-CD	Lan
	4:30	PILE#	MMPT	ro, (had	. to repa	ir throu	le line)	<u>rs</u> 9:4	15 D	rive	cha	operation brock	e.
	11:4	5 Ha	umana	rine	10 10/10			,					-)
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		art		ch	PILE DRIVING RECORDS						DATE: Ang. 12.05		
			THE CITY	OF WINN	VIPEG – W	ATER TH	REATI	AENT	PLAN	T - CI	LEARWELL		
PI	PI	DEP	FINAL	FINAL	DES.	A	PILE	FIN	AL SI	ET			
PILE NUMBER	PILE LENGTH	DEPTH PREBORED	AL TOP ELEV.	AL TIP ELEV.	CUTOFF ELEV.	ACT. CUTOFF ELEV.	PLUMBNESS	1 ST SET	2 ND SET	3 RD SET	MANUFACTURERS MARKINGS R = RE-DRIVEN		
61	15	3.7	230,821	215.821			1	20	17,	9	1744, Novol,04		
62	15	3,2	230,704	215.704			J	17	15	5	228, Feb 25.04		
63	15	3.0	238,817	215.817			./	21	19	Π	226, "		
65	15	2.7.	230,835	215.835			~	22	20	16	1719, Navor, 054		
97	15	3.0	230.863	215.863			J	24	19	17	NA		
64	15	3.7	230 9888	215,888			1	23	21	20	1316, ang. 16.04		
96	15	3.7					1	24	22	20			
66	15	3.7	230:923	215.923			1	23	21	20	(1751) 1 7 51, "		
60	15	3:7	231,190	216,190			1	21	19	19	1745 , "		
59	15	3.7	231,017	216.017			1	23	17	10	1747 "		

FOLLOWER USED, REFUSAL CRITERIA INCREASED 50%.

PILE #	COMMENT	°S
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		in the second
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) E		thTeo		PILE D	RIVING	RE	COR	RDS	D	ATE: A	ngiz	0	5
	-	A Tyco Inte	ernational Ltd. Co THE CITY	OF WINN	IPEG - W	ATER TH	EATN	AENT	PLAN	T – CI	LEARWEL	L		
PI	PI	DEP	FINAL	FINAL	DES.	ACT. E	PILE	FIN	AL S	ET				
PILE NUMBER	PILE LENGTH	DEPTH PREBORED	AL TOP ELEV.	AL TIP ELEV.	DES. CUTOFF ELEV.	CT. CUTOFF ELEV.	PLUMBNESS	1 ST SET	2 ND SET	3 RD SET	М	JFACTU ARKINC RE-DRIV	BS	S
67	15	3.9	230.854	215.854			J	23	21.	20	3638	Nov, 2	5.c	53
95	15	3.7					1	21	20	18	NA		1	
69	15		231.080	216.680			1	23	19	13	NA	, NN.	25.	03
63	15		230.974				1	20	19	15	3637	17		
94	15	3,5	1					21	17	12	1725,	001.2	». P٤	st
58	16	3.7					1	23	22	20	3095,	ang	5.	05
70	16	3.7	232.330	216.330			J	23	17	12	3074,	ane	4,0	05
57	16	3.9	232.434				V	22	20	14	3077	n	-	и
71	16			216,422			1	23	15	12	3069	h		ч
93	15	00		215.745			1	21	17	13	1723	Octid	9.0	,4

• FOLLOWER USED, REFUSAL CRITERIA INCREASED 50%.

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PILE # COMMENTS . 1 6

page# 3 of 4

		ÐE	A Tyce Int		ompany	22.1	RIVING					ATE: Aug 12,05	
				THE CITY	OF WINI	VIPEG – V	VATER TI	TEAT	MENT	PLAN	T - C	LEARWELL	
1	PILE	PILE	DEPT	FINA	FINA	DES. C	AC	PILE	FIN	AL S	ET		
24	E NUMBER	E LENGTH	DEPTH PREBORED	FINAL TOP ELEV.	FINAL TIP ELEV.	CUTOFF ELEV.	ACT. CUTOFF ELEV.	PLUMBNESS	1 ST SET	2 ND SET	3 RD SET	MANUFACTURER MARKINGS R = RE-DRIVEN	.s
	73	14	3.7	232.156	216,156		` .	J	24	21.	20	3070, aug-0	4.05
	72	16	3.9	232,002	216,002			1	24	23	22	3044, "	
	56	16	2.6.	232.469	216,469			1	23	22	21	3046, 11	
	74	16	3.b	232.217	216,217				24	2)	20	itet, octo	4.04
	92	15	36	230.883	215.883			/	a	Π	16	1727, Oct 29.0	54
	91	15	3.7	230,981	215.981			5	24	23	23	1722, "	
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	- H 											en Dierre all Gentling of the Managements	,
I		•	FOL	LOWER USE	D, REFUSAL	, CRITERIA	INCREASE	D 50%.					12
		PILE #				- th	COMMENT	<u>`S</u>					
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PAGE#9 OF 4

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INSPECTOR:

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Ð	EarthTech
	A Tyco International Ltd. Company

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PILE DRIVING RECORDS

DATE: Aver 15.05

THE CITY OF WINNIPEG - WATER TREATMENT PLANT - CLEARWELL

			THE CIT									
P	Р	DEI	FIN	FI	DES.	A	PILE	FIN	AL SI	ET		
PILE NUMBER	PILE LENGTH	DEPTH PREBORED	FINAL TOP ELEV.	FINAL TIP ELEV.	DES. CUTOFF ELEV.	ACT. CUTOFF ELEV.	E PLUMBNESS	1 ST SET	2 ND SET	3 RD SET	MANUFACTUR MARKINGS R = RE-DRIVI	3
75	15	3.9	231.119	216.119			1	21	20	17	2025, July-	27.05
76	15		231.370	216.370			J	23	19	15	2030, 11	
17	15	39		216.043			1	21	19	13	1718, 0429.	04
55	15		231.878				1	20	17	15	2941, July a	27.05
54	15	3.9		EFUSAL	_		1				NA,	
78			231.201				1	23	31	19	1720, Octac).04
90		3.9					1	22	רו	15	1724, "	
53	15	3.9	231.830	216.830			V	21	15	1]	1719, "	
79	15	3.9		-			1	23	みえ	20	si716, 1	
80	15			a15957			1	24	22	21	1726, "	

FOLLOWER USED, REFUSAL CRITERIA INCREASED 50%.

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PILE # COMMENTS

INSPECTOR:

PAGE# 1 OF 4

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Ð	EarthTech
	A Tyco International Ltd. Company

DATE: Rug. 15.05

THE CITY OF WINNIPEG - WATER TREATMENT PLANT - CLEARWELL

				THE CITY	OF WINN	ILEG - W	ATER II						
	р	q	DEI	FIN	FI	DES.	A	PILE	FIN	AL SI	ΞT		
	PILE NUMBER	PILE LENGTH	DEPTH PREBORED	FINAL TOP ELEV.	FINAL TIP ELEV.	DES. CUTOFF ELEV.	ACT. CUTOFF ELEV.	E PLUMBNESS	1 ST SET	2 ND SET	3 RD SET	MANUFACTURERS MARKINGS R = RE-DRIVEN	
	81	15	39	231,193	216.193			1	23	2 <u>]</u> -	19	1721, Oct. 291.04	
	89	15	39					1	23	19	15		
		16	39					J	31	19	17	2040,0027.04 3076, augo4.05	
	52	15	0	231.362	216.362				20	20	19	1717, 0429.04	
	82	15	3.9	230.824	215.824			\checkmark	21	20	19	2037, July 27, 05	
	45	15		230.822	215.822			V	23	aa	21	2024, "	
	88	15	3.9					V	24	21	20	2023, "	
2	120	15	3.8						23	22	19	2028, "	v.
*	87		3.9		215.468			1	22	20	18	2028, "	J
X	122	15	3.8		215,384			V	2)	20	19	2042, "	
		PILE #		LOWER US	ED, REFUSAI		COMMEN						
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			A Tyco Inte		mpany	PILE D	Charles of the Second States and						Ng 15.05
				THE CITY	OF WINN	VIPEG – W	ATER TH	REATI	MENT	PLAN	T - C	LEARWEL	
(PILE	PILE	DEPT	FINA	FINAL	DES. (AC	PILE	FIN	AL S	ET		
	E NUMBER	E LENGTH	DEPTH PREBORED	FINAL TOP ELEV.	AL TIP ELEV.	CUTOFF ELEV.	ACT. CUTOFF ELEV.	PLUMBNESS	1 ST SET	2 ND SET	3 RD SET	M	JFACTURERS ARKINGS RE-DRIVEN
	121	15	39	230,644	215.644			1	23	21.	19	2026-	July 27.05
e se	126	15	3.8	and the second s				1	21	20	18	2036	u ,
ç	123	15	3.8	230.374	215,374			J	20	17	15	2030	July 28,05
	124	15	3,8	230, 573	215.573			1	21	19	13	2033,	July 27.05
*	84			230.429					23	21	21	2027,	11
	83	15	3.6	230,432	215,432				1	20	19	2021,	
. (*	50	15	3.9	230.570					24	21	19	2039,	i/
	51	15	,	230,979						20		2057,	Nov3,04
	54 A	18	4,0	235, 208	217,208			~	23	24	21	1155,	1000,009
		*	FOL	LOWER USI	ED, REFUSA	L CRITERIA	INCREASE	D 50%.					
		PILE#				<i>v</i>	COMMEN	гs					
4	NºS #	54		700m	$\wedge \omega$	of # 5							
					1122222000	1. A.						C.a. (2000)	
					t		2	8					
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	ÐE	art	thTeo	ch [PILE D	RIVING	RE	COF	RDS	D.	ATE: Aug. 15.05
			ernational Ltd. Co FHE CITY		NIPEG – V	VATER TH	REATI	MENT	PLAN	T – C	LEARWELL
PI					DES.	A	PILE	FIN	AL S	ET	
LE NUMBER	ILE LENGTH	DEPTH PREBORED	FINAL TOP ELEV.	FINAL TIP ELEV.	CUTOFF ELEV.	CT. CUTOFF ELEV.	E PLUMBNESS	1 ST SET	2 ND SET	3 RD SET	MANUFACTURERS MARKINGS R = RE-DRIVEN
73	16	3.7				3	./	24	21	20	3070, aug. 04.05
72	16	3.9					1	24	23	22	3044, "
56	16	2.6					1	23	22	21	3046, "
74	16	3.6					1	24	21	20	3083 1727, 0-ct-24.04
92	15	36					/	21	17	16	1727, Oct 29.04
		1.000					1				

FOLLOWER USED, REFUSAL CRITERIA INCREASED 50%. •

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PAGE# 9 OF 4

INSPECTOR:

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			A Tyco Inte		mpany	PILE DI						ATE: Aug 16.05
]	THE CITY	OF WIN	NIPEG – W	ATER TR	EATN	AENT	PLAN	T – CI	LEARWELL
	PI	PI	DEPTH	FINAL	FINAL	DES.	A	PILE	FIN	AL SI	ΞT	
	PILE NUMBER	PILE LENGTH	TH PREBORED	AL TOP ELEV.	AL TIP ELEV.	CUTOFF ELEV.	ACT. CUTOFF ELEV.	PLUMBNESS	1 ST SET	2 ND SET	3 RD SET	MANUFACTURERS MARKINGS R = RE-DRIVEN
	518	15	39	231,063	216.06	3		J	23	21	19	2051, July 2805
	519	15	3,8	231.140	216.140	>			21	20	17	2054, "
	517	15	3,6	230,786	215.786			V	20	19	17	2047, "
	539	15	3.8	230.875	215.87	5		J	.17	15	13	2056, "
0.0000000000000000000000000000000000000	520	15	39	231.069	216.06	1		1	19	n	10	1166, June
	552	15	3.9	230.941	215.94				17	13	9	2034, July 27.05
	551	15	3.9	231.092	216,692	<u>ک</u>		1	20	17	15	2036, "
	55B	15	3.9	NO	REFL	15AL		V				2031, "
	553A	18	4.0	234,187	216,18	7			21	20	17	1752. Nov3.04
1100 CO.	5/4	15	3.9	231.009			INCREASE	V	19		7	2076 July 29,05
	2	*	FOL	LOWER USI	ED, REFUS	AL CRITERIA						
		PILE #					COMMEN	rs				6

page# | of 5

INSPECTOR:

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€	EarthTech
	A Tyco International Ltd. Company

DATE: Ang. 16.05

THE CITY OF WINNIPEG - WATER TREATMENT PLANT - CLEARWELL

			III CARA									
р	Р	DEI	FIN	FIN	DES.	A	PILE	FIN.	FINAL SET			
PILE NUMBER	PILE LENGTH	DEPTH PREBORED	FINAL TOP ELEV.	FINAL TIP ELEV.	CUTOFF ELEV.	ACT. CUTOFF ELEV.	3 PLUMBNESS	1 ST SET	2 ND SET	3 RD SET	MA	FACTURERS ARKINGS E-DRIVEN
515	15	3.9	231,037	216.037			1	21	19.	15	2027,	July29.05
540	15	3.9					\checkmark	20	17	15	3005,	July 29.05 Aug 02.05
549	15	39	231,320	216,320			J.	21	17	11	2073,	
516	15	3.91	231,051				1	ai	15	9	3004	ıl
874	15	3.8	231.143	216,143			1	23	21	20	2075	July 29.05
550	15			216,463			1	20	15	(1	2074	, , ,
909	15	0		215.756			\checkmark	21	14	12	2049	July 28,05
888	15		231,509				1	23	17	15	2050	Ju
886	15		1.5	216,134			\checkmark	21	18	14	2053	, ,(
887	15			216,294			1	20	19	8	2048	4

FOLLOWER USED, REFUSAL CRITERIA INCREASED 50%.

COMMENTS	

PAGE # 2 OF



DATE: Aug16.05

THE CITY OF WINNIPEG - WATER TREATMENT PLANT - CLEARWELL

		-									
PI	PI	DEP	FINAL	FIN	DES.	A	PILE	FIN	AL SI	ET	
PILE 1	PILE]	TH F	AL T	FINAL 1	CUT	CT. (EL	Star				
NUMBER	LENGTH	DEPTH PREBORED	TOP ELEV	TIP ELEV	DES. CUTOFF ELEV	ACT. CUTOFF ELEV.	PLUMBNESS	1 ST	2 ND	3 RD	MANUFACTURERS MARKINGS
ER	ΓH	RED	.EV.	EV.	LEV.	Ϋ́F	ESS	SET	SET	SET .	R = RE-DRIVEN
875	15	3,9	231.763	216,763			1	21	17.	9	2055, July 28,05
907	15	3.9	230.389	215,389			1	19	13	7	3020, ane,03.05
892	15	3.9	230.532	215.532			1	21	17	11	2072, July 29.05
890	15	3.9	230.529	215.529			\checkmark	23	a١	17	2032, July 28.05
891	15	3.9	230,513	215.513			1	21	15	7	3002, Augo2.05
908	15	3.8					\checkmark	21	15	1]	NA, July 29.05
872	15	3,9					1	M	13	7	3010, and 02.05
544	15	3.8	230.445	215:445			/	18	9	6	3021, aug. 03.05
4673	15	39	230,754	215.754			\checkmark	20	18	5	3018, "
889	15	3.6	230.903	215.903			1	17	3	5	3012, Que, 02,05
	•	FOL	LOWER USI	ED, REFUSAI	CRITERIA	INCREASE	D 50%.				
	PILE#			0 1	1.	COMMEN		. 0	(: 1)		· · · · · · · · · · · · · · · · · · ·
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PAGE # 3 OF

) E			1	PILE D	RIVING	RE	COR	RDS	D.	ATE: AU	16.05
				OF WINN	IPEG – W	ATER TR	EATN	MENT	PLAN	T - C	LEARWEI	
PII	PILE	DEP	FIN/	FIN.	DES.	AC	PILE	FIN	AL SI	ET		
PILE NUMBER	LE LENGTH	DEPTH PREBORED	FINAL TOP ELEV.	FINAL TIP ELEV.	DES. CUTOFF ELEV.	ACT. CUTOFF ELEV.	PLUMBNESS	1 ST SET	2 ND SET	3 RD SET	N	UFACTURERS IARKINGS = RE-DRIVEN
548	15	3.5	231.080	216.080			1	23	21	20	3001,	Aug. 02.05
545	15	3.9	230.454	215,454			1	20	13	9	3013,)/
547	15	3.8	230.640	215,642			J	21	15	11	3000	u.
546	15	3.2	230.527	215,527			\checkmark	20	7	3	2099.) 11
510	15	3.9	231.028	216.028			1	13	5	3	3009	u
511	15	3.9	231,061	215.061			1	12	5	6	2098	11
512	15	39	230.986	215.986			\checkmark	14	7	5	3008	, see all and the second second
53	15	3.9	230.824	215.824			\checkmark	17	9	7	3006	, , ,
541	15	3.9	230.719	215.719			J	21	10	5	2045	July 28 09
928	15	39	230.62	230.624		*	V	23	20	19	3014	A000205
	• PILE#		LOWER USI	ED, REFUSAL	CRITERIA	INCREASE						
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			A Tyco Inte		mpany	PILE DI							\$16.05
			1	THE CITY	OF WIN	NIPEG - W	ATER TR	EATN	1ENT	PLAN	T – CI	LEARWELI	
			D	Ŧ	H	DE		PI	FIN	AL SI	ET		
	PILE	PILE	EPT	INA	INA	S. C	AC	PILE					
		S	H P	LΤ	LT	UT	T. CUT ELEV.	PLU					Ψ.
	NUMBER	LENGTH	DEPTH PREBORED	FINAL TOP ELEV.	FINAL TIP ELEV	DES. CUTOFF ELEV	ACT. CUTOFF ELEV.	PLUMBNESS	-	2	3 RD		FACTURERS
	[BE]	GTH	3OR	ELE	·E	EL	OFF	NE	1 ST S				ARKINGS RE-DRIVEN
	2	ł	ED	V.	<i>.</i>	EV.		SS	SET	SET	SET		
127)	927	15	3.9	230.844	215,84	4		\checkmark	20	14.	4	3015,	and.02.05
	926			230,610				J	23	21	20	3011	(1
		Contraction (Contraction)		200,610	21 Jul	J		1	21	19	17	3023	aug. 03.05
2.17	948		3.9					1	23	21	20	N.A.	"
747	129	15	3.9	229.856	214.85	6		17)	0 1 0
	968	16	3,9	34 ¹					23	17	15.	3068	ang.04,5
	967	16	3,9					./	20	19	18	3058	- (/
			-										, ,1
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3		21								1	e		
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		-*	² FOI	LOWER US	ED, REFUS	AL CRITERIA	INCREASE	ED 50%.		<u> </u>	1		
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		0.00000								4			
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				thTeo	1	PILE D	RIVING	RE	COF	RDS		ATE: AL	1217.0	55
			<u>A Tyco Int</u>	ernational Ltd. Co THE CITY	OF WINN	IPEG – W	ATER TR	EAT	MENT	PLAN	T – CI	LEARWELI	,	
			DE	FI	FI	DES	5	PILE	FIN	AL S	ET			
	PILE	PILE	PTH	NAL	NAL	. CU	ACT. E							
	NUMBER	LENGTH	DEPTH PREBORED	FINAL TOP ELEV.	FINAL TIP ELEV.	DES. CUTOFF ELEV.	Г. CUTOFF ELEV.	PLUMBNESS	1 st set	2 ND SET	3 RD SET	MA	FACTUR ARKINGS RE-DRIVI	3
	966	16	3.9					/	23	20	17	N.A,		
	965	16	3.9					/	21	<u>n</u>	15	3075,	Augo	04.05
*	931	151	3.9	230.231	215.231			\checkmark	23	20	20	3026	Aug	03.05
1		15			215,202			J	24	23	23	3023	()	
à, Ì	930	15	- 0	230.208			ė	V	24	22	21	3022	М	e j
No. William	946	16	3.9	230.659	215.659			V	24	21	19	3024	, Y	
J.	929		3.9	230.290	215.290			/	21	20	17	3017	н	5
40 (44) 17	970	16	3.9					\checkmark	23	21	19	3082	Aug	05,05
9 9	971	16	3,9					$\mathbf{V}_{\mathbf{r}}$	24	22	15	3059	i.	-
-	969	16	3.9					1	23	21	18	3045	auez.	04.05
		×	FOL	LOWER USI	ED, REFUSAI	CRITERIA	INCREASE	D 50%.						
	[PILE#					COMMENT	rs						
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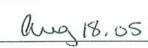
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PILE DRIVING RECORDS



DATE:

THE CITY OF WINNIPEG – WATER TREATMENT PLANT – CLEARWELL

			1	HE CITY	OF WINN	IPEG - W	ATENTR	GATI	IL/III			in in the second	
	F	F	DE	FII	FI	DES	÷	PILE	FIN.	AL SI	ET		
	PILE NUMBER	PILE LENGTH	DEPTH PREBORED	FINAL TOP ELEV.	FINAL TIP ELEV.	DES. CUTOFF ELEV.	ACT. CUTOFF ELEV.	E PLUMBNESS	1 ST SET	2 ND SET	3 RD SET	Ν	UFACTURERS IARKINGS RE-DRIVEN
	335	15	39	230,590	215,590			J	17	15	10	3016	Curo. 03. 05
	334	15	4.2	230.468	215,468			/	21	20	19	3023	ic .
	333	15	4.0	230,782	215,782			\checkmark	17	10	O	3027	11
	326	15	4.0	230.497	215,497			1	19	7	0	3035	И
K	325	15	42	230.250	215,250			/	15	0	0	3028	aug. 05.05 aug. 03.05
	323	15	1.20 1.20	231.318			4.5	\checkmark	20	17	16	3042	aug.03.05
	324	15	42	230.537	215.537		(*) 	1	23	20	19	3027	11
	322	15	4.0	231.398	215.398			1	21	19	17	3020,	11
	336	16	4.2	231,597	215.597)	19	IS	10	3065	aug.04.05
	337	1	4.D					\checkmark	18		5	3057,	t'
		PILE #					COMMEN	гs	33		4).	14 ⁴ -	
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DATE: aug:18.05

THE CITY OF WINNIPEG - WATER TREATMENT PLANT - CLEARWELL

			THE CIT	OF HIM	d bo			1				
P	q	DEPTH	FIN	FIN	DES.	A	PILE	FIN	AL SI	ET		
PILE NUMBER	PILE LENGTH	TH PREBORED	FINAL TOP ELEV.	FINAL TIP ELEV.	DES. CUTOFF ELEV.	ACT. CUTOFF ELEV.	PLUMBNESS	1 ST SET	2 ND SET	3 RD SET	M	UFACTURERS IARKINGS RE-DRIVEN
339	16	4.2	231,458	215.458			1	21	17.	ľð	3054	aner:04.05
338	16	4.3					1	19	18	12	3056,	u'
340	15	4.3	230.581	215.581			1	20	19	16	NA.	aug.03.05
327	15	4.0	230.569	215.569			~	21	0)	1730,	June 30:05
328	15		11.12-22.71-22.20				1	23	20	19	3206	aug. 10.05
330	15	4.1	230,607	215.607			1	21	17	13	3205,	1 ¹ .
329	15	3:6					\checkmark	7	5	5	32.04,	u ji
98	15	4.1	230.752	215.752		÷.	J	9	6	0	32.03	¥
341	15	4.0	230.695	215.695			V	21	11	5	3029	Aug 03,05 Aug 03,05
342	15	1		ふら.721			1	15	5	3	3035	hug 03,05

FOLLOWER USED, REFUSAL CRITERIA INCREASED 50%.

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PAGE#2 OF 4

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PILE DRIVING RECORDS

DATE: aug. 18.05

THE CITY OF WINNIPEG - WATER TREATMENT PLANT - CLEARWELL

			THE CITY	OF WINN	$\mathbf{WPEG} = \mathbf{W}$	ATER II	ŒAII	VILLIVI	FLAN	1 - C.	LEAR WEI		
P	P	. DEI	FIN	FIN	DES.	А	PILE	FIN	AL SI	ET			
PILE NU	PILE LE	THPR	IAL TO	VAL TI	CUTO	ACT. CUTOFF ELEV.					MAN	UFACTU	DEDC
NUMBER	LENGTH	DEPTH PREBORED	FINAL TOP ELEV.	FINAL TIP ELEV.	CUTOFF ELEV.	V.	PLUMBNESS	1 ST SET	2 ND SET	3 RD SET	N	IARKINO RE-DRI	3S
344	15	4.0	230.671	215,671			1	11	6.	5	3031.	anaz	03.05
332	15	3.7	230.812	215.812			1	19	13	7	3633,	1(
33-	15		230.609					17	5	3	NA,		
99	15	3.9	230.828	215.828			1	21	17	9	3038,	з <u>і</u> 1	6 ⁴ 1
343	15	4.0	230.593	215,595			1	15	7	5	3197,	ang	10.05
138	15	4.2	-	•			\checkmark	18	9	7	3196) (
140	15	3.7	230,516	215.516			1	19	ί٦	13	3195,	. u	•
141	15	4.0			-		\checkmark	23	19	18	3191	۱٬	
142	15	3.9	230.411	215,411		14	1	23	21	17	3140		
137	15	1	12	215.603	a		1.	23	18	14	3185	, 1	
	•	FOL	LOWER USI	ED, REFUSAI	L CRITERIA	INCREASE	D 50%.					/	State and
	PILE#					COMMENT	rs				Ĩ		
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PAGE#3 OF 4

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INSPECTOR:

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) E				PILE D	RIVING	RE	COF	RDS	D.	ATE: Aug 18,05
ſ				THE CITY	OF WINI	VIPEG - W	ATER TI	REAT	MENT	PLAN	T - C	LEARWELL
	PILE	PILE	DEPT	FINAL	FINAL	DES. (. AC	PILE	FIN	AL SI	ΞT	· . 1
	E NUMBER	LE LENGTH	EPTH PREBORED	AL TOP ELEV.	AL TIP ELEV.	CUTOFF ELEV.	CT. CUTOFF · ELEV.	PLUMBNESS	1 ST SET	2 ND SET	3 RD SET	MANUFACTURERS MARKINGS R = RE-DRIVEN
	100	15	4.3	231.853	215.835			J	15	5	Ö	3067, aug 10.05
	101	16	4.3	231.878	215.878	3		/	6	3	2	3084, "
-	102	18	40	231.80	215.860			V	17	13	7	NA,
	136	<u>d5</u>		230,397	215.705				9	9	3	3059 NA
1	143	15	3,1	230,44	215,411				1	· ·	$\frac{1}{\sqrt{1}}$	3/88, aug 10.05 3089, aug 05.05
-	103	16	3:9	231,893	215.893				16	13	7	3089, Aug 05.05
ł		14		·								
					iu							
1.000		*	FOL	LOWER USI	ED, REFUSA	L CRITERIA	COMMEN					
ſ		PILE#					COMMENT					
											•	
-												
							•					
-										`		
					81 13							page# 4 of 4

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) E	art	thTeo	ch 🛛	PILE D	RIVING	ŔĒ	COR	RDS	D	АТЕ: Λ.	19.0	15
[A Tyco Int	ernational Ltd. Co THE CITY							T – C	LEARWEL)
. (OF WILL	1								
	PI	р	DEF	FIN	FIN	DES.	А	PILE	FIN	AL SI	ET			
	PILE NUMBER	PILE	TH	FINAL TOP ELEV	FINAL TIP ELEV	CU	ACT. CUTOFF ELEV.	1.1.1						
	UN	LE	PRI	TOI	TIP	TOI	r. cut elev.	LUN				MAN	UFACTU	DEDC
	MBI	LENGTH	BO	EL	EL	TF E	TOF 1.	PLUMBNESS	1 ST	2 ND	3 RD		IARKING	
	ER	H	DEPTH PREBORED	EV.	EV.	CUTOFF ELEV.	ĥ	ESS	SET	SET	SET	R =	RE-DRIV	EN
		. –	.1 2					J	17	11	-	2107	0	9
	144	15	4.2	230.325	215.325	5			11	11:	/	3193.	ung	.09.05
	143	15	3.9	232.198	217,198			\checkmark	15	14	9	3194	11	
2	146	15	4.1	230.283	215,283			1	21	21	20	3199	u	
	135	15	4.0	230,631.	215.631			1	19	15	10	3185	11	er lee
	104	15	39	230.908	215,908			1	20	17	11	NA		
(105)	105	15	4.1	230,979	215979			~	23	21	19	3184) (/	
	106	15	4.0	231:345	216,345			1	20	19	18	3202	"	5.
-2-	134	15	4.0	230.561	215.56	(-22	1	22	20	17	3177.	ang	09.05
24	107	15	3.8	230.649					20	.17	10	3187		
	147	15	4.1	230245	215,245	ī		1	23	عک	21	3174	, (I	
		•	FOL	LOWER USI	ED, REFUSA	L CRITERIA	INCREASE	D 50%.				7	1	
		PILE#					COMMEN	ГS				- N		
		ting		piles	,9:00	hanne	ring							

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PAGE# | OF 4

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Ð	EarthTech	
	A Two laterational Ltd. Company	

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PILE DRIVING RECORDS

aver. 19.05

DATE:

Tyco International Ltd. Compar THE CITY OF WINNIPEG - WATER TREATMENT PLANT - CLEARWELL DES. CUTOFF ELEV DEPTH PREBORED PILE PLUMBNESS FINAL SET FINAL TOP ELEV FINAL TIP ELEV ACT. CUTOFF ELEV. PILE NUMBER PILE LENGTH MANUFACTURERS 2ND 3RD 1ST MARKINGS R = RE-DRIVENSET SET SET J 2059, July 29.05 4.0 230,957 215,957 108 15 19 17 21 20 19 109 15 4.4 231.025 216.025 23 3176, aug. 10, 05 22 20 18 1663 June 27.05 4. 230.485 215.885 110 15 133 21 23 15 1664 4.0 230,675 215.675 20 M 1 11 4.0 230,333 215,333 19 15 149 22 17 1668 148 3.7 230,386 215.386 21 24 22 11 15 1665 4.2 11 23 19 17 1662 15 150 1 20 19 18 1672 15 4.0 15 r 4.0 230,684 215.684 132 1671 15 19 15 (" 16 V

4.0 230,701 215.701 V FOLLOWER USED, REFUSAL CRITERIA INCREASED 50%.

PILE # COMMENTS Preset jackhammering 11:10 piles correct elv. +0 . 1. 1

PAGE # 2 OF 4

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-	A Tyco Internationa	Itd Company

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PILE DRIVING RECORDS

DATE: Ana 19 05

of the

	C	2		ternational Ltd. C		PILE	D	RIVING	G RE	COF	RDS		(Jua 19.05
				THE CITY		NIPEG	– W	ATER TI	REAT	MENT	PLAN	√T – C	LEARWE	
	PI	PI	DEP	FIN	FIN		DES	А	PILE	FIN	IAL S	ET		
	PILE NUMBER	PILE LENGTH	DEPTH PREBORED	FINAL TOP ELEV.	FINAL TIP ELEV.		DES CUTOFF ELEV	ACT. CUTOFF ELEV.	E PLUMBNESS	1 ST SET	2 ND SET	3 RD SET	1	NUFACTURERS MARKINGS = RE-DRIVEN
	[3]	15	4.4	230.284	215,284				\checkmark	az	19.	18	1668,	June 27.05
	1/2	15	4.D	230,595	215,595		_		V	19	17	16	1691,	17
	113	15	4.0	230,848	215,848					21	19	17	1693,	June 28.05
	114	15	3.9	230.66C	215.666				/	20	18	17	1690,	U .
	152	15	4.1						/	23	21	19	1667,	June 27.0.
	153	15	4.0						1	23	23	22	1652) ()
	154	15	4.0	230,176	215.176		_			24	23	19	1653,	
	130	15	3.6	230.646	2-15.466		_		V	23	19	17	1650,	17
-	115	15		230,666 230,765	215,705				/	24	18	16	1651	- <i>11</i>
	155	15	3.8	LOWER USE	D DEFUSA	CRITE	DIA	INCREASE	D 50%				3067	, aug of.
		PILE #		LOWERUSE	<i>D</i> , KEF 03A	LCKITE		COMMENT						5 *
		TIDE #			L			COMMENT	5			•		
								<u>.</u>					.,	
								* *						

PAGE# 3 OF 4

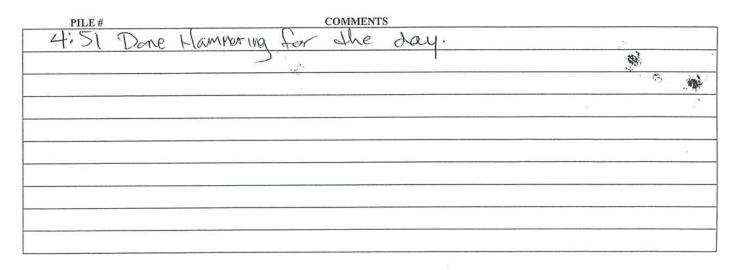
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DATE: aug-19.05

THE CITY OF WINNIPEG - WATER TREATMENT PLANT - CLEARWELL

P	P	DEI	FIN	FI	DES	A	PILE	FIN	AL S	ET	
PILE NUMBER	PILE LENGTH	DEPTH PREBORED	FINAL TOP ELEV.	FINAL TIP ELEV.	DES. CUTOFF ELEV.	ACT. CUTOFF ELEV.	E PLUMBNESS	1 ST SET	2 ND SET	§ 3 RD SET	MANUFACTURERS MARKINGS R = RE-DRIVEN
116	16	4.0	CUT	NA			J	23	20	18	2080, Aug. N/A
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					•						
				ED, REFUSAI							μe



PAGE # 4 OF 4

INSPECTOR:

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11	Na 22.05	
	na an O	

DATE:

		A Tyco Int	ternational Ltd. C	отралу								
			THE CITY	OF WINN	VIPEG – W	ATER TI	REAT	MENT	PLAN	VT - C	LEARWEI	LL
PILE	PILE	DEPT	FIN	FIN	DES.	A	PILE	FIN	IAL S	ET		3
E NUMBER	LE LENGTH	DEPTH PREBORED	FINAL TOP ELEV.	FINAL TIP ELEV.	DES. CUTOFF ELEV.	ACT. CUTOFF ELEV.	PLUMBNESS	1 ST SET	2 ND SET	3 RD SET	N	UFACTURERS IARKINGS RE-DRIVEN
117	16	4.3	& CUT	NA			./	23	21	19	3066	, aug.04,05
118	16	4.0		215.692			1/2%	21	20	19	3052	,
119	16	4.0	231.712	215.712			1	23	21	20	3055	<u>, 1</u>
128	16	4.0					\checkmark	21	20	17	3051	
129	(15)	3,9	230,438	215,438			J.	24	22	21	1661	June 27,05
157	15	4.1	230.393	215.393			\checkmark	24	23	21	1655	17
156	15	4.0	230,278	215,278			\checkmark	23	19	18	1637	June 24.05
158	15	4.0	230.374	214.374			1	24	23	22	1659	June 27.05
168	15	37					1	24.	23	21	1666,	1 ¹
159	15	3.8	230.594	215,594			J	23	22	2)	1630	June 24.05

*

FOLLOWER USED, REFUSAL CRITERIA INCREASED 50%.

7:20 Hammering, 9:05 evacuate the hole

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€	EarthTech
	A Tyco International Ltd. Company

DATE: Aug. 22.05

THE CITY OF WINNIPEG - WATER TREATMENT PLANT - CLEARWELL

		8	I HE CLI Y	OF WINN	ILEG - W	MIER II		1		_	A Designed by the second s	
P	ų	DEPTH	FIN	FIN	DES.	А	PILE	FIN	AL SI	ET		
PILE NUMBER	PILE LENGTH	TH PREBORED	FINAL TOP ELEV.	FINAL TIP ELEV.	DES. CUTOFF ELEV.	ACT. CUTOFF ELEV.	E PLUMBNESS	1 ST SET	2 ND SET	3 RD SET	MA	FACTURERS ARKINGS RE-DRIVEN
507	16	4.7	231.480	215,480			1	21	19:	17	3243,	aug 12.05
362	16	4.9	231.428	231.828			1	23	21	15	3235,	aug 13.05
363		4.8	251,844	215,844			V	21	19	13	3246.	Aug 12.05
509	16	4.7	232.034	216,034			\checkmark	20	18	13	3240	(⁽
508	16			215.928			1	23	17	11	3242	, ı ı
542	16	4.0	231.839	215.839			V	21	12	9	3241	11
493	15	4.2	230.617	215.617			1	20	16	12	1660,	June 28,05
492	16	4.5		215.688				23	17	16	3238	Aug. 205
491	15	4.7	10 C	215.507			/	24	21	19	1642	June 28.05
364	16	4.2		215.514			V	21	19	16	3239	, aug 12.05

FOLLOWER USED, REFUSAL CRITERIA INCREASED 50%.

COMMENTS PILE# Hampering & standing piles, 1:47 unch 12:05 1:01 Hammerine

PAGE# 2 OF 4

Г)E	A Tyco Inte		mpany	PILE DI							1922.05
]	THE CITY	OF WINI	VIPEG – W	ATER TR	EATN	AEN I	PLAN	1 – C.	LEARWEI	
	PILE	PILE	DEP	FINAL	FIN.	DES.	AC	PILE	FIN.	AL SI	ET		
	E NUMBER	LE LENGTH	DEPTH PREBORED	AL TOP ELEV.	FINAL TIP ELEV.	CUTOFF ELEV.	ACT. CUTOFF ELEV.	PLUMBNESS	1 ST SET	2 ND SET	3 RD SET	N	UFACTURERS IARKINGS RE-DRIVEN
	365	HA	4,7	2				~	23	17:	is	3079,	aug.04.05
	490	16	4.2	231.520	215.520			V	21	19	17	3245,	aug. 12.05
	366	16	4.5	231.649	215.649			1	21	17	13	3244	11
	494	17	11	232.796	100			\checkmark	23	21	17	1999	July 19.05
	496	16	4.2	-231,945	215.945	Š		1	22	17	11	3262	ang. 16.05
K	495	16	4.3	NO	REI	FUSA	xL	1	21	18	12	3257	, it .
`	503	16	4.8	231.493	215,493			1	21	18	12	3264	U.
	504	16	1	231.590				1	ZÍ	20	17	3278	1(
	505	16	4.7	230.915	214.915			1	23	17	13	32.79	U U
	506	lb	43	231.886	215.886	*. 	INCOFASE	J	21	19	15	3260	(C

FOLLOWER USED, REFUSAL CRITERIA INCREASED 50%.

COMMENTS	
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page# 3 of 4

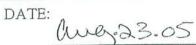
INSPECTOR:

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ſ			A Tyco Inte		mpany	PILE D							ng. 22.05
				THE CITY	OF WIN	NIPEG – W	ATER TR	EATI	MENT	PLAN	T – CI	LEARWEI	<u>ل</u>
	PI	P	DEP	FINAL	FIN	DES.	A	PILE	FIN	AL SI	ET		
	PILE NUMBER	PILE LENGTH	DEPTH PREBORED	AL TOP ELEV.	FINAL TIP ELEV.	CUTOFF ELEV.	ACT. CUTOFF ELEV.	PLUMBNESS	1 ST SET	2 ND SET	3 RD SET	N	UFACTURERS IARKINGS RE-DRIVEN
12	495	18	4.0	NO	REF	USAL	-	V	NA	NA.	NA	1754	NN.03.05
8	543	16	4.2	231.636	215.636	2		/	21	17	(3	3270	Nov. 03. 05
	8913	17	4.7	232.138	215,138	5		J	23	22	20	1991	, July 19,05
	906	17	4.6	232.229	215,229	1		J	24	23	22	1997	, i
	933	17	4.7	232.065	215.065	5	140.00	J	23	22	21	1996) (1
					A								
		Α.											
100		• PILE #		LOWER USE	ED, REFUS	AL CRITERIA	COMMEN						
				3	1				1				
													4

PAGE # 2 OF 4





THE CITY OF WINNIPEG - WATER TREATMENT PLANT - CLEARWELL

			THE CITI	Or man			-	-				
P	q	DEI	FIN	FI	DES.	A	PILE	FIN	AL SI	ET		Ξ.
PILE NUMBER	PILE LENGTH	DEPTH PREBORED	FINAL TOP ELEV.	FINAL TIP ELEV.	DES. CUTOFF ELEV.	ACT. CUTOFF ELEV.	E PLUMBNESS	1 st set	2 ND SET	3 RD SET	N	UFACTURERS IARKINGS RE-DRIVEN
502	16.5	4.5	232.584	215.584			2%	21	17.	16	1992	July 19.05
870	18.5	4.5	232.387	215.387			3/2/0	23	19	17	1993,	υ
495F	18	4.5	234.021	216.021	Т., -		1	21	17	13	10	Jan. 21.05
934	16		1.1.1	214.788			1	23	20	17	NA	,
4915	17	1		215,240			1	19	17	15	1990	July 19.05
871	17	45					1	21	20	16	1995	n series and
915	16	4.5					1	21	19	15	3208	Aug. 11.05
914	16	3.9					~	19	15	11	3247	Aug 12.05
973	16	45					1% w	21	17	13	N/A	Aug 11.05
905		1.1	230.654	214.654			J	20	17	14	3249	, Augia, 05

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FOLLOWER USED, REFUSAL CRITERIA INCREASED 50%.

COMMENTS PILE# zile for 495"B", 9:18 Hammering ve @ 8:40- 8:55 18 M waiting "B ND

Ð	EarthTech	
	A Tyco International Ltd. Company	

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PILE DRIVING RECORDS



CT E I DIVET ANT

				THE CITY	OF WINN	VIPEG – V	VATER TI	KEAT.	VIENI	PLAN	r = c	LEARWELL	4
(DE	FI	FI	DES.		PILE	FIN	AL S	ET	-	
	PILE NUMBER	PILE LENGTH	DEPTH PREBORED	FINAL TOP ELEV.	FINAL TIP ELEV.	3. CUTOFF ELEV.	ACT. CUTOFF ELEV.	E PLUMBNESS	1 ST SET	2 ND SET	3 RD SET	MANUFACTURERS MARKINGS R = RE-DRIVEN	
136	1916	17	4.5	231.630	214.630			1	19	17	13	1975, July 19,05	
	935	16	4.5	230.168	214.768			1	17	15	12	60, Jan. 20,05	
	905	16	4.2	231.210	216,210			/	21	17	10	124, Jan. 24.05	_
	945	16	4.5	230.659	214.659			\checkmark	20	19	13	3027, Aug. 11.05	-
	972	16	43		-	jë		V	22	18	14	3211,	-435
	596	16	4.4	231.062	215.062	•		1	21	17	15	39, Jan. 19.05	-
Ċ.	894	17	45	232.049	215.049			1	22	19	17	1977 5 24 1803	Ś
1	497	17	4.6	232.764	215.764			/	7	NA	N/A	1978, 11	
	348	16	4.5	231.458	674			1	21	17	11	NA, NA	
	349	16		231.764	215.764	00100001	INCREASE	V 50%	23	17	15	21 Jan21.05	Í.
*i+3.4		•	34	LOWER USI	ed, refusai	L CRITERIA				5°		,	1
19 M		PILE#	1.	٠ ^۲			COMMEN	rs		<u>,</u>		т. <u>я</u> .	
)(<i>n</i>							and the second	-
ч.							9						_
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		A Tues Int		moany /	PILE D						ATE: Aug. 23,05
Id	P				1		PILE		AL S		LEARWELL
PILE NUMBER	PILE LENGTH	DEPTH PREBORED	FINAL TOP ELEV.	FINAL TIP ELEV.	DES. CUTOFF ELEV.	ACT. CUTOFF ELEV.	PLUMBNESS	1 ST SET	2 ND SET	3 RD SET	MANUFACTURERS MARKINGS R = RE-DRIVEN
347	16	4.2	231.867	215.867			1	23	17.	15	27, Janal.05
			-	1.							
			:#:								
4'.	PILE#		- drivin	ED, REFUSA		COMMEN	rs				

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	UID		art	anationa	Litd Co	moany	PILE D							924.05	5
[THE C	CITY	OF WIN	NIPEG – W	ATER TH	EATI	MENT	PLAN	T – C.	LEARWEL	Ĺ	
(PILE	PILE	DEPT		FINAL	FINAL	DES. C	ACT. E	PILE	FIN	AL SI	ET			
	E NUMBER	E LENGTH	DEPTH PREBORED	4. 42.	TOP ELEV.	TIP ELEV.	CUTOFF ELEV.	T. CUTOFF ELEV.	PLUMBNESS	1 ST SET	2 ND SET	3 RD SET	M	JFACTURE ARKINGS RE-DRIVE1	
	360	16	4.5	231.	589 6-49	215,589 215,649			~	21	17.	13	37,	Jan. 14.	05
	361	16				215.615			12%	22	19	15	40	11	
	346	16	1			215.67			1	23	22	19	77,	Feb.14	. 05
	345	17	4.5						J	23	21	17	1971	July K	6,05
9)	139	17	4.0						V	19	17	7	1976	بر	
	356	16	43	231.3	390	215,390			1	23	22	19	3286	Aug.1	7.05
.)	350	-	1			215.797			J	23	13	5	3281	0	203
	354	16	4.3			215.600			\checkmark	20	9	5	3280	ñ	
	352	16	1.	231:	125	215.725			1	17	(1	4	3297	i \	10
	353	16	4.4			215.417			1	20	17	12	3293)	
l		•	FOL	LOWE	R USI	ED, REFUS	AL CRITERIA	INCREASE	D 50%.		۰.				
1	del Q.	PILE#	1					COMMEN	rs						
	-07-(-	03	Hom	rme	-In	3									
										et anno 19					
			5	**************************************	j.										
						,									
l		5											\$ 7.		
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				0.22									
EarthTech				mpany	PILE DRIVING RECORDS						DATE: Aug. 24.05		
THE CITY OF WINNIPEG – WATER TREATMENT PLANT – CLEARWELL													
PI	Id	DEP	FINAL	FINAL	DES.	A	PILE	FINAL SE		ΞT			
PILE NUMBER	PILE LENGTH	DEPTH PREBORED	AL TOP ELEV.	AL TIP ELEV.	DES. CUTOFF ELEV.	ACT. CUTOFF ELEV.	PLUMBNESS	1 ST SET	2 ND SET	3 RD SET	MANUFACTURERS MARKINGS R = RE-DRIVEN		
355	16	4.2	.231.473	215.472	2		/	21	17	(1	63, Jan 20.05		
180	16	4.5	231.709	215.700	}		2%	23	14	9	63, Jan 20.05 3305, Aug 18.05 38, Jan 19.05		
182	16	4.3	231.730	215.730	>		/	21	17	1	38, Jan 19.05		
				<u>а</u>									
											2019		
-													
						INCEFAC	D 50%						
FOLLOWER USED, REFUSAL CRITERIA INCREASED 50%.													
Stopped for lunch, hammering 1:30, 2:23 stopped for crane repair.													

PAGE# 20F 2

EarthTech					PILE DRIVING RECORDS					D.	DATE: August, OS		
THE CITY OF WINNIPEG - WATER TREATMENT PLANT - CLEARWELL								Ĺ					
PILE	· PI	DEP	FINAL	FIN	DES.	AC	PILE	FIN	AL SI	ET			
LE NUMBER	PILE LENGTH	DEPTH PREBORED	AL TOP ELEV.	FINAL TIP ELEV.	DES. CUTOFF ELEV.	ACT. CUTOFF ELEV.	PLUMBNESS	1 ST SET	2 ND SET	3 RD SET	M	JFACTURERS ARKINGS RE-DRIVEN	
350	16	4.0	232.028	216.028			1			4	N/A)	
178	16	4.2	231,446	215,446			1				11)	
181	16	4.0	231.617	215.607			1)	
177	16	4.0	230.240	215.280			V				11		
183	16	4.2	231.204	215,204			V				1'	и,	
176	16	4.5					V				58	Jan 20.05	
184	16	4.2	230.784	214.784			V			¢	64	xĩ	
185	16	4.0		214.763			V				3313	Aug. 18.05	
186	1		230.644	214.649			~				N,	/A	
175	16	4.0					1				3291	Aug. 17.05	

FOLLOWER USED, REFUSAL CRITERIA INCREASED 50%.

PILE#	COMMENTS	
8:15 Hammering,		
)		

page# (of 3





THE CITY OF WINNIPEG - WATER TREATMENT PLANT - CLEARWELL

				HECHI	OF WILLIN	n EG -	HAIDA II	CUINT	and a state of the				
1	H	_	DE	FI	FI	DES		PILE	FIN	AL SI	ET		
	PILE NUMBER	PILE LENGTH	DEPTH PREBORED	FINAL TOP ELEV.	FINAL TIP ELEV.	DES. CUTOFF ELEV.	ACT. CUTOFF ELEV.	E PLUMBNESS	1 ST SET	2 ND SET	3 RD SET	N	UFACTURERS IARKINGS RE-DRIVEN
	187	16	4.2	2.30.955	214.955 21 4 .397			\checkmark	21	17.	13	N	A
	174	16	42	231.066	215,066			~	191	18	16	59	Jan 20.05
	1039	17	4.7	230.422	214,422			\checkmark	20	19	15	1942	July 18.05
(035)	1035	17	4.5	231.263	214.263			1	17	ß	13	1974	[]
	1034	П	4.5	231.506	214.263			\checkmark	21	20	16	1843	July 15.05
	991	17	4.5	231.212	214.212			1	23	17	10	1939	
6	1037	17	4.2	230.482	213,482			1	24	23	20	1940	<i>''</i>
7	1035	17	4.6	230,471	213:471			1	23	21	17	1969	July 18:05
	1036	17	4.0	231,254	214,259			1	21	17	13	1941	July 15.05
	1033	17		231.173				1	23	20	15	1996	, (
		•	FOL	LOWER US	ED, REFUSAI	L CRITER	IA INCREASI	ED 50%					

COMMENTS PILE # n mor ive 12:00 LED, wait -ina tor stand 11:15 hammering not to unload 1:46 5 12:08 immener Na Lunc 2:33 Hammerina

PAGE#2 OF 3

12.

Ð	EarthTech
-	A Tyco International Ltd. Company



THE CITY OF WINNIPEG - WATER TREATMENT PLANT - CLEARWELL

								-					
p	q	DEPTH	FIN	FI	DES.	A	PILE	FIN	AL SI	ET			
PILE NUMBER	PILE LENGTH	TH PREBORED	FINAL TOP ELEV.	FINAL TIP ELEV	DES. CUTOFF ELEV.	ACT. CUTOFF ELEV.	E PLUMBNESS	1 ST		3 RD	M	FACTU	S
BR	Η	RED	EV.	ΞV.	LEV.	L,	SS	SET	SET	SET	K = F	RE-DRIV	EN
1032	17	4.2	230,379	213.379			1	23	22.	20	1970	July 1	8.05
1000	17			214.458			J	21	21	15	1972,	1.	
188	16	4.0	231.018	215.018			1	21	17	15	3368	Aug	18.05
190	16	4.(230.931	214.931			1	23	19	10	3315	, 11	
189	16	4.0	230.919	214.919	ĩ.		1	21	17	14	3312	, ,	
191	16	3.2	230.541	214.541	^{5,35} 1,17		1	23	18	17	3304	,ı	
173	16	4.1	251.111	215.111			1	21	19	08	3307	۱۰)	· · · · · · · · · · · · · · · · · · ·
172	16	4.2	230.964	215,964			/	20	20	19	5303,		
	a.		d a									÷ .	97
ðe.											21 		

FOLLOWER USED, REFUSAL CRITERIA INCREASED 50%.

COMMENTS PILE# for the day finished 1 6:00 coffee 3:20 Hammerino 4:10

PAGE#3 OF 3

E	EarthTech	
	A Tyco International Ltd. Company	1

DATE: Aug. 26.05

THE CITY OF WINNIPEG - WATER TREATMENT PLANT - CLEARWELL

						and and the state of the	-	T				
q	р	DEI	FIN	FI	DES.	А	PILE	FIN	AL S	ET		
PILE NUMBER	PILE LENGTH	DEPTH PREBORED	FINAL TOP ELEV.	FINAL TIP ELEV.	DES. CUTOFF ELEV.	ACT. CUTOFF ELEV.	E PLUMBNESS	1 ST SET	2 ND SET	3 RD SET	MA	FACTURERS RKINGS E-DRIVEN
179	16	4.2	231,596	215.596			J	23	20	19	3300	Aug. 18.05
217	1			215,030			1	21	19	17	3317	ı1
216	1			214.752	-		1	21	20	15	3316	
215	J			214.773			1	21	13	7	3339	Awg. 19.05
214	V	4.1	230.686	214.686			1	22	17	14	3318	Ave. 18.05
213	V	4.5	230.439	214.439			1	22	19	16	3314	11
212	\checkmark	4.2	230.499	214.499			\checkmark	23	16	15	3332	Aug 19,05
192	\checkmark	4.0	513 230.721	214.513			1	24	22	20	3303	Aug. 1805
193	V.	4.1	230.514	215.514			\checkmark	24	24	23	3331	Aug 19.
194	~	4.3	230.599	214.599			1	-	23	22	3330	

FOLLOWER USED, REFUSAL CRITERIA INCREASED 50%

COMMENTS PILE# shoring Preset sterrit on 8:30 Was suppose Hannerin coul Sin Mey pipe. di au bu 5. nes P iv -sile 15 11:00 RI on 1a wa roblem S Hammerina 12:54

PAGE# | OF 3

LE NUMBER LEV. AL TIP ELEV. CUTOFF ELEV. PLUMBNESS X^{ND} SET X^{N				Γ				VALENT			1		LEARWELI	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		PILE NUMBER	1 5 22		FINAL TOP ELEV.	FINAL TIP ELEV.	DES. CUTOFF ELEV.	ACT. CUTOFF ELEV.		1 ST S	2 ND	3 RD	MA	ARKINGS
$\begin{array}{c c c c c c c c c c c c c c c c c c c $			16	4.3	230.721	214.721				23	21.	17	3333	Aug. 19.05
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1	161	16	4.4	231.586	231.586				24	23	23	33 3 8	ιί -
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	1	"160	16	4.2	231.754	215.754			V	23	22	21	3337,	11
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		127	16	4.4	231.847	215.447			V	21	20	18	3339	/\ }
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		164	17	4.2	233.095	216.095			1	23	22	21	1950	July 15,05
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			17		232,905	215.905			V	23	21	20	1949	"
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	33		17	4.5	232.390	215,390			\checkmark	22	22	19.	1944	/ (i)
170 16 4.2 230.582 214.582 / 22 17 13 3349 Aug. 19.05 169 16 4.4 231.329 215.329 / 3336 11			17						V	21	20	17	1943	v }
169 16 44 231.329 215.329		ter same l	16	1	*				\checkmark	22	17	13	3349	Aug. 19.05
			16	4.4	3				\checkmark				3336	11
	1			27	00 8	chardi	na oile). co	rner	3:		1
PILE# COMMENTS		50		ω	ree q	9 (M 0 1						,		· 2.
3:00 coffee à standing piles in N.W. corner, 3:														1 18
3:00 coffee à standine, piles in N.W. corner, 3:													1	
3:00 coffee à standines piles in N.W. corner, 3:														
3:00 coffee à standine, piles in N.W. corner, 3:													a : "Mi	And:

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	EarthTech A Tyco International Ltd. Company THE CITY OF WINNIPEG - WATER TREATMENT PLANT - CLEARWELL											
	1		THE CITY	OF WINN		VATER TI		MENT	' PLAN T	lΤ – C.	LEARWELL	
P P	H	DE	FI	FI	DES	4	PILE	FIN	AL S	ET		
ILE	PILE	PTH	VAL	NAL	. CU	E E						
PILE NUMBER		DEPTH PREBORED	FINAL TOP ELEV	FINAL TIP ELEV	DES. CUTOFF ELEV.	ACT. CUTOFF ELEV.	PLUMBNESS				MANUFACTURERS	
MBE	LENGTH	BOI	ELI	ELE	FEI	[OFI	BNE	lst			MARKINGS R = RE-DRIVEN	
. RR	H	RED	EV.	ŝV.	.EV.	.1]	SSS	SET	SET	SET	K – KE-DRIVEN	
167	16	42	- 231.736	215736			1	23	22	21	3335, Aug. 19.05	
		4.2		215.714			1	23	17	G	3347 "	
166		4.4	251, 114	217.114			~	21	19	17	3340 11	
165	16										,	
	-											
	×											
					CT TOTAL	NODEARE	D 60%					
	•	FOL	LOWER USI	ED, REFUSAI							9	
	PILE#					COMMENT	'S					
					i.							

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PAGE#3 OF 3

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Ð	EarthTech	
	A Tyco International Ltd. Company	



THE CITY OF WINNIPEG - WATER TREATMENT PLANT - CLEARWELL

			THECITY	OF WINN	$\Pi FG = M$	ATERT		T	-			
P	P	DEPTH	FINAL	FIN	DES.	A	PILE	FIN	AL SI	ET		
PILE NUMBER		TH PREBORED	AL TOP ELEV.	FINAL TIP ELEV.	DES. CUTOFF ELEV.	ACT. CUTOFF ELEV.	PLUMBNESS	1 ST SET	2 ND SET	3 RD SET	М	JFACTURERS ARKINGS RE-DRIVEN
211	16	4.2	230.350	214.350			1	23	20	17	3344	, Aug. 18.05
210) 16	4.3	230,376	214.376			\checkmark	21	19	15	3302) //
1915	5 16	4.3	230.530	214.530	•		1	22	17	16	3310	,
20	716	, 4,4	230.500	214.500			\checkmark	23	20	18	3301,	A.f
190		1 -		214.970			1	21	20	15	3311	11
19-		4,2					~	22	17	13	3348	Aug. 19,05
198		115	1	215.111			5	23	20	19	3319	Aug. 18.05
208		-	230.655				2%5	23	17	5	3306)1
206				214.507			\checkmark	21	16	14	3351	Aug. 22.05
207	16	4.3	230.743	214.743			~	23	19	15	3352	1/

FOLLOWER USED, REFUSAL CRITERIA INCREASED 50%.

12

. PILE# COMMENTS 8:49 ammerina 9:42 allee :30 H Hammering

INSPECTOR:

PAGE# | OF 3

	UID	ÐE				PILE D	RIVING	G RE	COF	RDS	D	ATE:	ug. 29,65
						NIPEG – V	VATER TI	REAT	MENT	PLAN	T - C	LEARWELL	
(PI	PIL	DEPTH	FINAL	FINAL	DES.	A	PILE	FIN	I IAL S	ET		
	PILE NUMBER	LE LENGTH	TH PREBORED	TOP	AL TIP ELEV	CUTOFF ELEV	ACT. CUTOFF ELEV.	PLUMBNESS	1 ST	2 ND	3 RD	MANU	FACTURERS
	BER	GTH	ORED	ELEV.	LEV.	ELEV.)FF	NESS	ST SET	ID SET	D SET	R = R	E-DRIVEN
	201	16	4.1	231.391	215,391			1	23	15	9	3 359	, Aug. 22. 05
	200	16	4.2	231.559	215.559			1	21	90	16	3348	, Aug 19,05
	1991	16	4.2	231.274	215.274			~	23	17	11	3345	
	202	(12) 17	43	232.842	215,842			V	21	19	16	1952	July 15.05
	203	17		232.592				1	23	16	15	1959	July 15:05, July 15:05
	204	17	1 -	232.702				1	22	18	13	1949	· · · · · · · · · · · · · · · · · · ·
1	205	17	4,1	232,155	215,155			1	20	13	7	P957	<u>,</u> tr
2.7	1.	16	4.3	230.656	214.656	,		1	21	17	12	3354	, Aug22,05
241)	244	16	4.2	232.014	215,014			V	23	23	20	3358	, "
in Ca t2	568	16	4.3	230,263	214.263			~	21	20	15	3335))

PILE#	COMMENTS	
12:07 lunch	§ standing piles, 1:46 Hammering,	
	5	

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PAGE#**J** OF 3

	ÐE				PILE D	RIVING	G RE	ĊOF	RDS	D	ate: Au	3.29.05
			THE CITY	OF WIN	NIPEG – W	ATER TI	REATI	MENT	PLAN	T - C	LEARWELL	
PILE	PI	DEP	FINAL	FINAL	DES.	AC	PILE	FIN	ALS	ET		
LE NUMBER	PILE LENGTH	DEPTH PREBORED	AL TOP ELEV.	TIP	DES. CUTOFF ELEV.	ACT. CUTOFF ELEV.	PLUMBNESS	1 ST SET	2 ND SET	3 RD SET	MA	FACTURERS RKINGS E-DRIVEN
594	16	4.4	230.472	214,472			V	23	<u>ai</u>	15	3355,	Aug. 22.05
244	17	4.2	230,293	214.293			\checkmark	23	22	21	33 N/A	
242	17	4.3	232.031	215.021	, ,		1	24	23	22	N/A,	
243	17	4.3	231.927	214.927			~	23	22	20	5012	July 15.05
567	17	2.3	231,487	214.887			1	23	20	19	957	May 17.65
5935	16	4.0	230.723				5	21	19	15	3356	Aug 22.05
			2									Gaz Vi
						NICOD LOF	D 509/					an and a meridian second second
	•	FOL	LOWER USI	ED, REFUSA	L CRITERIA							
3.10	PILE#	e di	iving fa	or the	e day	COMMEN	rs					Sto.
					1							
												- 64 87

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page#3 of 3

	Ð	A Tyco Int	thTee	ompany	PILE D		_	_			ATE: Áug?	31,05	
щ		10000			1		PILE	<u> </u>	ALS	1			
PILE N	PILE I	PTH P	FINAL T	FINAL	S. CUT	ACT. (EI					. !		
NUMBER	LENGTH	DEPTH PREBORED	TOP ELEV.	TIP ELEV.	DES. CUTOFF ELEV.	ACT. CUTOFF ELEV.	PLUMBNESS	1 ST SET	2 ND SET	3 RD SET	MA	FACTURE RKINGS E-DRIVE	
597	17	3.6	232.094	215.094	1		V	10	12.	10	986?	May	7.05
608	17	3.7	232.225	215.225	5		\checkmark	24	21	16	953	n	<u>, с с</u> и
611	17	3.7	232.390	215.390	>		\checkmark	24	19	14	955	ч	'n
613	17	3.6	232.470	215.471	3		1	24	6	/	958	'n	ષ
628	17	3.8	232.362	215.36	× ,		\checkmark	23	Ò	/	976	May 18	05
631	17	3.8	232.342	215342	Ļ		\checkmark	15	6	3	954	May 17	05
646	17	3.7	231.034	214.03	4		1	20	12	4	949*	* n %	n
	-										20		
												¢.	*
	•	FOL	LOWER USE	CD, REFUSA	L CRITERIA								
613	PILE #	3 se	t not	taken	- bouner	COMMENT	bou	Der					
628	-	2 se	t only	6 BI	0405 -	Dounci	na	on	boule	lær			
			•				-						
					97 <u>1 - 9</u> 72 - 90					7).		
<u></u>									1	H	,		

PAGE# | OF | INSPECTOR:

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) E			201310 20	PILE D	RIVING	; RE	COF	RDS	D.	ATE: Bee	t. 2, 04	ł
			1	THE CITY	OF WIN	NIPEG – W	ATER TH	EAT	AENT	PLAN	T - C	LEARWE	LL	
1	PILE N	PILE L	DEPTH P	FINAL TOP ELEV	FINAL T	DES. CUTOFF ELEV	ACT. C EL	PILE PLI	FIN	AL S	ET	1	·	
	NUMBER	LENGTH	DEPTH PREBORED	OP ELEV.	FINAL TIP ELEV.	OFF ELEV.	ACT. CUTOFF ELEV.	PLUMBNESS	1 ST SET	2 ND SET	3 RD SET	Ν	NUFACTUR MARKINGS = RE-DRIVE	
	596	17	3.8	231.507	214.507			\checkmark	24	20.	14	974	May 18	,05
	609	17		232.234				V	23	11	2	973	n	· ·
	610	17	C . C	232.113				/	17	12	8	977	h	
	612	17	3.9	232.330	a15,330			1	15	9	4	971	м	ъ
	629	17	3.7	232.196	215,196			\checkmark	22	14	9	952	May	17.05
	630	17	3.8	232.230	215.230			/	24	10	2	978	1 1	8,05
	647	17	3.9	252.223	215.223	,		\checkmark	18	9	3	975	h ·	η
(6418	17	3.7	232.201	215,20	1		~/	7	Ø	Ø	950	May 1.	7,05
	650	17	39	230,735	215,36	ł		1	24	4	3	951	11	
649	曲	16	3.8	130.735	215.36	1		/	20	9	4	3362	Ang 22	,05
		٠	FOL	LOWER USE	CD, REFUSA	L CRITERIA	INCREASE	D 50%.			,			
		PILE #				2	COMMENT	rs						5
	1110	12	1 1	1	1 /	1	1 1							

648 Only 1set, stopped on boulder

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PAGE# 1 OF 4

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) E		thTeo	ch [PILE D	RIVING	RE	COF	RDS	D.	ATE:	1.21	75
				ernational Ltd. Co THE CITY	OF WIN	NIPEG – V	VATER TF	REAT	AENT	PLAN	T - C	LEARWEI		
	PILE	PILE	DEPT	FINAL	FINAL	DES. (AC	PILE	FIN	AL SI	ET	1	2	5.
	E NUMBER	E LENGTH	DEPTH PREBORED	AL TOP ELEV	AL TIP ELEV	DES. CUTOFF ELEV	ACT. CUTOFF ELEV.	PLUMBNESS	1 ST 1	2 ND		N	UFACTI IARKIN RE-DRI	GS
,51	149	16		.< 230.904				, ss	SET 20	SET 7	SET 2	3361	Ang 2	
	660			231.25%				V	20	7	2		/ single	
	661	16	3.7	231.382	215.382	Ļ			22	23	12	3365	Augó	12,05
•	662	16	3.8	231.339	215:339			/	24	12	3	3363	ы	n
	663	16.		231.290				/	24	10	5	3385	Aug	23.05
124	猫	16	3.4	231.608	215.608			/	24	8	2	3350	Aug	22.05
	713	16	3.5	231.711	215.711			\checkmark	5)	/	3352		#n
, .C.	712		. /	231.584		. 9 .		/	23	9	3	3364	n	и
	664	16	3.4	231.240	215.240			/	24	12	3	3367	и	n
	665	16	3.7	231.337	215.337			V	25	9	2			_

• FOLLOWER USED, REFUSAL CRITERIA INCREASED 50%.

PILE # COMMENTS 713 -Onl ano ouncind (\cdot) 20: . ÷. , 1 . • e 1 2 . 5 1 ap PAGE#2 OF L **INSPECTOR:**

					PILE DI	RIVING	; RE	COR	2DS	D.	ATE: Sept.	2,05	
			THE CITY	OF WINN	IPEG – W	ATER TH	EATN	MENT	PLAN	T - C	LEARWELL	,	
PILE	PILE	DEPT	FIN/	. FIN.	DES.	AC	PILE	FIN	AL SI	ET	•	•	
E NUMBER	LE LENGTH	DEPTH PREBORED	FINAL TOP ELEV.	FINAL TIP ELEV.	DES. CUTOFF ELEV.	ACT. CUTOFF ELEV.	PLUMBNESS	1 ST SET	2 ND SET	3 RD SET	MA	FACTURERS ARKINGS E-DRIVEN	
666	16	3.7	251.360	215.360			\checkmark	17	5	3	3374	Aug 22	05
667				215,464	3		1	25	12	3	3366	n	и.
1123	16	35		215,477			~	26	5	3	3342	Aug 19,0	5
711	16	3.6	231.599	215.599			1	20	9	3	3368	Aug &d, (25
668				215.573	120		/	24	4	1	3360	n n	-
669		3.8		215.568			1	22	9	3	3341	Aug 190	05
718	16	3.7	231.388	215,388			1	22	5	2	3375	Aug 23,	05
727	16	3.9						24	9	3		<u> </u>	
724	16	3.5					/	23	8	2	3382	Aug 23 (05
722	Ko	34	231.516	215.516			\checkmark	22	7	2	3383		•

FOLLOWER USED, REFUSAL CRITERIA INCREASED 50%.

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COMMENTS PILE # enedis. di Ce 5 16

PAGE# 3 OF 4

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) E	A Tyco Int		ompany	PILE D							. 2,0:	5
			THE CITY	OF WIN	NIPEG – V	VATER TI	REATI	MENT	PLAN	T - C	LEARWEI	L	
PILE	PILE	DEPTH	FINAL	FINAL	DES. CU	ACT	PILE P	FIN	AL S	ET			
NUMBER	LENGTH	DEPTH PREBORED	TOP ELEV.	, TIP ELEV.	DES. CUTOFF ELEV.	ACT. CUTOFF ELEV.	PLUMBNESS	1 ST SET	2 ND SET	3 RD SET	M	UFACTU IARKIN RE-DRI	GS
1125	16	3.6	231.473	215,473	,		/	20	11 .	8	3370	Augó	13,05
719	16	34	231.463	215,462	2		V	22	14	3	3378	n	15
717	16	36	231.393	215.392	5		1	22	15	4	3376	*	5
716	16	3.6	231.482	215.482	2		V	20	9	3	3377	n	ห
715	16	3.6	231.486	215.486	>		V	24	7	2	3392	n	n
												•	
		FOL	LOWER USE	D, REFUS	AL CRITERIA	INCREASE	D 50%.						
	PILE #					COMMENT					•		e
													4
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INSPECTOR:

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EarthTech

Tyco International Ltd. Company

DATE:				
	500	4.0	6.	0

THE CITY OF WINNIPEG - WATER TREATMENT PLANT - CLEARWELL

			THE CITY	OF WINN	IPEG – W	AIERII	CEAIN	TERT	TDAI	1-01	
P	q	DEI	FIN	FI	DES.	А	PILE	FIN	AL SI	ET	
PILE NUMBER	PILE LENGTH	DEPTH PREBORED	FINAL TOP ELEV.	FINAL TIP ELEV.	DES. CUTOFF ELEV.	ACT. CUTOFF ELEV.	E PLUMBNESS	1 ST SET	2 ND SET	3 RD SET	MANUFACTURERS MARKINGS R = RE-DRIVEN
671	16	4.3	231.741	215.741	3	-1	1	3	0.	0	3294, Aug 22.05
670		4.2	231.63	215.653			1	n	2	0	3388, "
672	16	4.3	231.360	215.360			1	19	7	3	3389, Aug.23.05
710	16	4.2	231.692	215.692)	10	2	0	3390, "
699	16	1.		231,515			2/4/1	13	7	5	3391
698	16	1.0	231.209	215,209			1	13	9	4	3584 , "
673	16	4.2	231.044	215.044			V	19	18	15	3387, "
720	16		231.487				~	19	7	2	4003, Aug 24,05
1126		4.1	231.360				~	15	9	3	3398, <u>Augui3.05</u> 4001 <u>Aug.24.05</u>
714	16	1.1.1.1		215.358			J	13	5	2	4001 Aug. 24.05

FOLLOWER USED, REFUSAL CRITERIA INCREASED 50%.

COMMENTS PILE# S.W. corne shoring driving in Preset 10:58-Hammering Was redrive piles 11:50 Hammerina 12:23 1:20 11:20 - 11:49 0 ownering 5:13 lay-out 1:25 waiting for #670 dead stopped "Ц # 671 л

PAGE# | OF Q

	UID			thTeo		PILE D	RIVING	RE	COR	RDS	D	ATE: Sept. do. 05
ſ			<u>A Tyco Int</u>	ernational Ltd. Co THE CITY	OF WINN	VIPEG - W	VATER TH	EATN	1ENT	PLAN	T – Cl	LEARWELL
	P	щ					A	PILE		AL SI		
	PILE NUMBER	PILE LENGTH	DEPTH PREBORED	FINAL TOP ELEV.	FINAL TIP ELEV.	DES. CUTOFF ELEV.	CT. CUTOFF ELEV.	E PLUMBNESS	1 st set	2 ND SET	3 RD SET	MANUFACTURERS MARKINGS R = RE-DRIVEN
	708	16	4.1	231 373	215.373			1	17	09	3	3399 Aug 23.05
	709	16			215,538			/	15	7	a	3391, "
	701		4.1	231.360	215,360			1%5	19	9	5	4009, Aug24.05
	697	16	4.3					\checkmark	17	13	6	4006, "
				25.105	00000							
											-	

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FOLLOWER USED, REFUSAL CRITERIA INCREASED 50%.

PAGE#2 OF 2



DATE: Sept. 07.05

THE CITY OF WINNIPEG – WATER TREATMENT PLANT – CLEARWELI

		T	1	1								
q	ч	DEPTH	FINAL	FI	DES.	A	PILE	FIN	AL SI	ET		
PILE N	PILE L	PTH PI	IAL TOP	FINAL TIP		ACT. CUT ELEV	1000000					
NUMBER	ENGTH	PREBORED	OP ELEV.	IP ELEV.	CUTOFF ELEV	CUTOFF LEV.	PLUMBNESS	1 st set	2 ND SET	3 RD SET	M	JFACTURERS ARKINGS RE-DRIVEN
								~				
725	16	3.3						15	5.	2	3396,	Aug23.05
706	16	3.4					1	1	2	Ò	3395,	u .
721	16			215.416			1	19	14	7	3397	
707	16			215:374			1	11	5	2	33.87	υ ·
704		3.4		317171			~	13	6	3	3386	U.
	16	3.3					\checkmark	9	5	2	3371	1f
695		1.5					10, 0	-		-		
703	16	3.4	231.313	215.313			12.5	22	15	3	3380	,
702	16	3,4	231.406	215,406			1	11	6	5	4000	Aug 24.05
696	16	3.3	300	215,136			1	14	8	4	3381	Aug 23,05
692	16	3.4		215.216			1	15	9	3	4029	Aug 24.05
U in	1. 10	1-	0.01.0011		and the second second second		T 200/					<u> </u>

FOLLOWER USED, REFUSAL CRITERIA INCREASED 50%.

COMMENTS PILE # standing piles till 8:20 them hammering) . .

PAGE# | OF 3

		A Tyco Inte		mpany	PILE DI						0	407.05
		5	THE CITY	OF WINN	IPEG - W	ATER TR	EATN	AENT	PLAN	T - Cl	LEARWELL	,
PILE	PILE	DEP	FINAL	FINAL	DES.	ĂĊ	PILE	FIN.	AL SI	ET	•	
LE NUMBER	LE LENGTH	DEPTH PREBORED	AL TOP ELEV.	AL TIP ELEV.	DES. CUTOFF ELEV.	ACT. CUTOFF ELEV.	PLUMBNESS	1 ST SET	2 ND SET	3 RD SET	MA	FACTURERS ARKINGS E-DRIVEN
674	16	4.3	230.865	214.885			/	17	/].	03	4010	Aug 24.05
615	16	4.3	231.417	215,417			J	15	13	05	4005	
677	16.	4.2	.189	189			\checkmark	19	11	09	4017	··· · · · ·
676	16	4.3	231.243		20		~	16	11	06	4013	13
659	16	43					V	14	9	03	4022	w
105	16	4.4					1	16	12	04	4032	η .
1127	16	43	231.254	215,254		1	1	17	10	09	4025	- "
689		4.3		215,117	4 ₆₋₅	ч.	\checkmark	20	13	10	4016	
693	16	43	231.127				\checkmark	17	14	07	4007	u ,
690	-	4.2		215.167			V	1.9	12	10	4020) V
	•				L CRITERIA	INCREASE	D 50%.				,	

COMMENTS	 			
		. •		
	 ,			
0-111-34 3 1 3-21	,		4	
		sty .		
•	COMMENTS		• • • • • • • • • • • • • • • • • • •	

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PAGE#20F3

INSPECTOR:

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Ð	EarthTech	
-	A Tyco International Ltd. Company	_

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PILE DRIVING RECORDS

DATE: Sept.07.05

THE CITY OF WINNIPEG - WATER TREATMENT PLANT - CLEARWELL

- 6										I and the second se				
	р	q	DEF	FINAL	FIN	DES.	A	PILE	FIN	AL S	ET			a.
	PILE NUMBER	PILE LENGTH	DEPTH PREBORED	IAL TOP ELEV.	FINAL TIP ELEV.	CUTOFF ELEV.	ACT. CUTOFF ELEV.	E PLUMBNESS	1 ST SET	2 ND SET	3 RD SET	M	FACTURERS ARKINGS RE-DRIVEN	, ave
	680	16	3.4	231.421	215,421			1	11	3.	02	4012	Aug24.05	
	691	16			215,235			V	15	9	05	4011	"	
	679	16	1000		215.183			1	16	13	04	4021.	× .	
Contraction of the second	678	16	3,4	231,233	215,233			1	17	14	07	4004	. 1'	
	694	16			215,439	÷		1	19	15	09	4026		
	687	16			215.704			1	3	0	0	4018	<u>۱</u> ۱	_
													k	_
	1												Â.	

6:42 HAMMERING PILE # COMMENTS " 4 las-" bea piles 2:33 standing in 7:20 Todd sa operator 134 6:50 wai sitting A 681 stopped dead ¥ 4

PAGE#3 OF 3

Ð	EarthTech	1
	A Tyco International Ltd. Compa	ΠY



THE CITY OF WINNIPEG - WATER TREATMENT PLANT - CLEARWELL

			THE CIT	OF WINT	ureg - w	AIERIF	(EAT)	VILAN I	ILAN	1-0	LEARWELL	
PI	PI	DEP	FINAL	FIN	DES.	A	PILE	FIN	AL S	ET	1	
PILE NUMBER	PILE LENGTH	DEPTH PREBORED	AL TOP ELEV.	FINAL TIP ELEV.	CUTOFF ELEV.	ACT. CUTOFF ELEV.	3 PLUMBNESS	1 ST SET	2 ND SET	3 RD SET	MA	FACTURERS .RKINGS E-DRIVEN
769	16	3,2	229.937	215.775			J	11	03	04	3393,	Aug23.05
656	16	3.2	229.990	215,808				15	09	0.5	3373	
688	16	3.3	231.398	215.398			1	17	10	03	4045	AugaSios
685	16	3.2	231.568	215.568			1	19	11	07	4014	Aug. 24.05
1125	16	3.2	231.533	215,533			5	19	17	15	4128	1/
684	16			215.514				23	19	17	4027	17
683	16	- 22	229.814				\checkmark	21	17	11	3372	Aug. 23.05
642	6	3.2	231,715	215,715			1	23	23	17	4023	Auguetios
681	16	3,2					1	21	17	10	4011	, , , , , , , , , , , , , , , , , , , ,
772	17	3.2	232.713	215.713			V	20	15	09	997	May 19,05

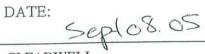
FOLLOWER USED, REFUSAL CRITERIA INCREASED 50%.

COMMENTS PILE # for standup & pre-boring \$:30 waiting 7:20 Hommerine 9:40 annerina •

PAGE# | OF 5

EarthTech

PILE DRIVING RECORDS



THE CITY OF WINNIPEG – WATER TREATMENT PLANT – CLEARWELL

			THE CITY	OF WINN	IFEG - W	AIERII		1		T		
q	H	DE	FIN	, FII	DES	A	PILE	FIN.	AL SI	ΞT		
PILE NUMBER	PILE LENGTH	DEPTH PREBORED	FINAL TOP ELEV.	FINAL TIP ELEV.	DES. CUTOFF ELEV.	ACT. CUTOFF ELEV.	E PLUMBNESS	1 ST SET	2 ND SET	3 RD SET	MA	ACTURERS RKINGS E-DRIVEN
770	16	3.3	231,730	215.730			1	21	17-	13	4015,	Aug 24.05
798				2 15,807			V	20	10	05	4028	(
773		3.4		215,715			J	17	11	07	995	, May 19.05
774	17	3.3		215.643			1	19	13	06	970,	13
715	17	3.4		215.603			1	16	12	06	969	, May 18.05
797	16		231.654		Е.		1	19	15	il	4036,	Aug 25.05
796	16	3.4		215,650				17	9	04	4030)
795	16		231.646				1	20	11	05	4037	11
794	16	3.3	231.711				1	14	69	03	40356	<u>ц</u>
776	17	33		215.570	CRITERI		1	12	04	02	993	May 19.05

FOLLOWER USED, REFUSAL CRITERIA INCREASED 50%.

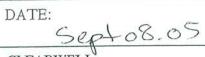
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COMMENTS PILE# Hammeriney 11:05 10:25 waitine stand-u in

page#2 of 5

EarthTech

PILE DRIVING RECORDS



THE CITY OF WINNIPEG - WATER TREATMENT PLANT - CLEARWELL

			THE CITY	OF WINP	ured = w	ATER II	CONTRACT				the second second second second	
		D	ਸ	۲	DE		PILE	FIN	AL SI	ET		
PILE NUN	PILE LEN	DEPTH PREBORED	FINAL TOP	FINAL TIP	DES. CUTOFF ELEV	ACT. CUTOFF ELEV.	LE PLUMBNESS		N	(J)		ACTURERS
NUMBER	ENGTH	BORED	ELEV.	ELEV.	F ELEV.	OFF	BNESS	1 ST SET	2 ND SET	3 RD SET		RKINGS E-DRIVEN
777	17	3.2	252,592	215.592			/	11	03	<i></i> il	979,1	Nay 18,05
778	17	3.3	232538	215,538			5	14	07	03	998,	17
793	16	20	231.545				/	16	13	04	4033,	Aug 25.05
792	16	3.3	231.470	215,470			1	19	11	09	4035,	((
779	17	3,3	232,575	215.575			1	17	12	10	996,	May 19.05
791	16	3.2	231.429	215,429			1	13	09	03	4031,	Aug25.05
790	16	3.3	231,430	215,430			1	11	07	05	NA,	"
789	16	3.3		215,402			1	14	09	03	4029,	/۱
788	16	3.2	231.400	215,400			1	14	06	05	4042,)/
767	16	3.3	231.286	215.286			\checkmark	12	07	02	4041,	<i>\</i> /
	•	FOL	LOWER USI	ED, REFUSA	L CRITERIA	INCREASE	D 50%.					
	PILE#		/	0		COMMENT	rs					
12:09	5 Li	inch	,12.4	9 Heur	imer ing)						

PAGE#3 OF 5

INSPECTOR:

4 1d ...

ſ			A Tyco Int		ompany	PILE D						ATE: Sep- learwell	1.08.05	
	P	P	DEPTH			DES.		PILE		AL SI				
	PILE NUMBER	PILE LENGTH	TH PREBORED	FINAL TOP ELEV.	FINAL TIP ELEV.	CUTOFF ELEV.	ACT. CUTOFF ELEV.	E PLUMBNESS	1 ST SET	2 ND SET	3 RD SET	MA	FACTURERS RKINGS E-DRIVEN	
	786	16	3.3	231.365	215.365			1	17	11 :	06	4034,	Aug25.05	
	780 17 3.3 231,306 214.306 / 21 20 19 1019, May 20.0													
K	781 17 3.3 229.968 212.908 / 23 22 21 989, May 19.0													
	782 18 3.3 233.328 215.328 / 23 20 19 69, Jandl, 0													
	1044	17	4.0					V	24	19	18	994,	May 19.05	
K	1043	17	4.2	NO	REFL	SAL		/				NA		
	1042	17	4.2					1	23	92	22	991,	11	
	1031	17	4.3					/	23	20	17	NA	<i>i</i>	
	1041	17	43					V	24	20	19	990,	1(
	1040	17	4.3	1								1014,	May 20.05	
e.		*	FOL	LOWER USE	ED, REFUSA	L CRITERIA								
	2:39	PILE#	aitiv	ng for	piles &	Emovine	2 to F	15 2, 51	dea	? B	irds	request	۲.	
	4:00		nner		1		د							
													· ·	
												PAGE	#40F5	

				_							
					PILE D	RIVING	RE	COF	RDS	D.	ATE: Sept.0805
					NIPEG - W	VATER TH	REATI	MENT	PLAN	T - C	LEARWELL
PIL	PILE	DEPT	FINA	FIN/	DES. (AC	PILE	FIN	AL S	ET	1
PILE NUMBER	E LENGTH	DEPTH PREBORED	FINAL TOP ELEV.	FINAL TIP ELEV.	DES. CUTOFF ELEV	ACT. CUTOFF ELEV.	PLUMBNESS	1 ST SET	2 ND SET	3 RD SET	MANUFACTURERS MARKINGS R = RE-DRIVEN
1003	17							т 21	17.	н //	
			-								
											· ·
										*	

• FOLLOWER USED, REFUSAL CRITERIA INCREASED 50%.

PILE #	COMMENTS	

PAGE # SOF 5

				_								x .
) E		thTeo ernational Ltd. C		PILE D	RIVINO	G RE	COF	RDS	D	ate: S	ept.09.05
			THE CITY	OF WINI	NIPEG – V	VATER TI	REAT	MENT	PLAN	T - C	LEARWEL	L '
PILE N	PILE 1	DEPTH F	FINAL T	FINAL	DES. CUI	ACT. (EI	PILE PL	FIN	IAL S	ET	1	
NUMBER	LENGTH ,	DEPTH PREBORED	TOP ELEV.	FINAL TIP ELEV.	DES. CUTOFF ELEV.	f. CUTOFF ELEV.	PLUMBNESS	1 ST SET	. 2 ND SET	3 RD SET	M	JFACTURERS ARKINOS RE-DRIVEN
1001	17	4.2					\checkmark	23	19.	13	1010	, May 20,02
1002	11	43					1	21	17	11	1009	, , , , , , , , , , , , , , , , , , , ,
990	17	4.3		-			1	21	19	17	1015	, ,/
1043A	18	4,4	5				1	24	23	al		
783	17	铅	232.252	215.250	2		\checkmark	07	04	03	1030	May 25.05
784	17	3.5	232.279	215.279		\checkmark	3h	05	02	O	1018	May 20,05
785	17	3.4	232.262	215,262			2/0E	11	09	05	1038	May 24,05
1098	17	3.5	232.456	215,456	5			23	22	21	1032	
1097	17	3.5	232,298	215,298			2%	21	20	18	1017	May 20,05
1:09ib	17	3.5	232,303	215,303			~	23	17	11	1013	, , , ,

 107b
 1
 5.7
 232,303
 15,303
 6

 •
 FOLLOWER USED, REFUSAL CRITERIA INCREASED 50%.

PILE # COMMENTS 7:20 Hammering, 8:00 waiting for piles, 9:25 standing piles, 11:07 Hammering, 12:23 Lunch, 12:57 Hammering, 784 stopped dead

PAGE # 1 OF A

UID		A Tyco Int	thTee ernational Ltd. C	ompany	PILE D	a successive and a successive second					ATE: Sept.09.05 LEARWELL
PI	Id						PILE		AL S		
PILE NUMBER	PILE LENGTH	DEPTH PREBORED	FINAL TOP ELEV.	FINAL TIP ELEV.	DES. CUTOFF ELEV.	ACT. CUTOFF ELEV.	PLUMBNESS	1 ST SET	2 ND SET	3 RD SET	MANUFACTURERS MARKINGS R = RE-DRIVEN
1095	17	3.5	232.312	215.312			5	18	04	02	1033, May 24.05
1099	n n		232.263		Shi -		~	B	09	07	1034, "
1100	17			215.324			1	3	0	0	1031
	8									-)))
1:40 . * Lao		ing !	for ha	ed, refusal		COMMEN					

PAGE#ZOF Z





				THE CITY	OF WINN	IPEG – V	VATER TH	REAT	MENT	PLAN	T - C	LEARWELI	Ĺ
	PILE	PILE	DEPT	FINA	FIN/	DES. (AC	PILE	FIN	AL S	ET	1	
	E NUMBER	E LENGTH	DEPTH PREBORED	FINAL TOP ELEV.	FINAL TIP ELEV.	DES. CUTOFF ELEV.	ACT. CUTOFF ELEV.	PLUMBNESS	1 st set	2 ND SET	3 RD SET	MA	FACTURERS ARKINGS RE-DRIVEN
	900	17	4.3	232.146	215,146			\checkmark	20	17.	15	1076	May 26.05
	899	17	44	232.287	215.287			1	21	19	15	1050	May 25.05
*	498	17	4.3	229.946	212.946			V	23	20	17	1052	· · · · · · · · · · · · · · · · · · ·
	897	17	4.4	232.216	215.216			1	23	21	20	1029	, May 24.05
	86A	17	4.4	232.215	215.275				24	23	21	1070	May 05,
	501	17		232.214	215,216			/	23	22	19	1069	May 26.05
62	357	17	4.4	232.431	215.431			\checkmark	23	20	19	1072	ú
1911		17	4.3	252,133	215,133			V	24	20	19	1073	ζ.
	500		4.4						21	17	15	1071	νı
	498	17			215.SAU	CRITERIA	INCREASE	D 50%	20	17	16	1077	11
and and a	5 2	A PILE#	FOL	LOWER USE	D, REFUSAL	CRIERA	COMMENT						
			lour	merine	1,		COMMENT						
**													
				1									

PAGE# | OF 3

EarthTech

A Tyco International Ltd. Company

PILE DRIVING RECORDS



THE CITY OF WINNIPEG - WATER TREATMENT PLANT - CLEARWELL

Ыd	DEP	FIN	FIN	DES.	A	PILE	FIN	AL S	ET	1	
LE LENGTH	TH PREBORED	AL TOP ELEV.	AL TIP ELEV.	CUTOFF ELEV.	CT. CUTOFF ELEV.	PLUMBNESS	1 st Set	2 ND SET	3 RD SET	М	JFACTURERS ARKINGS RE-DRIVEN
17	4.3	232.661	215.54			1	20	17	<u>Î</u>	1078	May26,05
17	43	2.32.534	215.534			1	21	16	14	10 75	()
17						1	24	22	19	1097	May 27.05
17	4.3	232,934	215.934			/	23	20	17	1093.	1
17	4.3	232.275	215,275			/	21	20	17	1098,	μ
17	4.4	232.562	215.562			1	24	21	18	1114	May 30,05
17	4.4	231.481	214.481			/	23	11	09	1037,	May 24.05
17	43	231,889	214.889			J.	24	20	17	10:45	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
17	43	231.460	214.460			1	23	17	14	1051,	, ,/
17							24	23	23	1091	May 27.05
	17 17 17 17 17 17 17	LENGTH 17 4.3 17 4.3 17 4.4 17 4.3 17 4.4 17 4.3 17 4.4 17 4.3 17 4.3 17 4.3 17 4.3 17 4.3 17 4.3 17 4.3	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	17 4.3 232.661 215.661 215.661 17 4.3 232.534 215.534 $\sqrt{1111}$ 17 4.3 232.534 215.534 $\sqrt{1111}$ 17 4.4 232.534 215.534 $\sqrt{1111}$ 17 4.4 232.010 215.010 $\sqrt{1111}$ 17 4.4 232.010 215.010 $\sqrt{1111}$ 17 4.3 232.934 215.934 $\sqrt{1111}$ 17 4.3 232.562 215.562 $\sqrt{1111}$ 17 4.4 232.562 215.562 $\sqrt{1111}$ 17 4.4 231.481 214.481 $\sqrt{1111}$ 17 4.3 231.481 214.881 $\sqrt{1111}$ 17 4.3 231.460 214.460 $\sqrt{1111}$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	174.3 2332.6661 215.6661 215.6661 215.6661 220 17 174.3 2322.5541 215.534 \checkmark 20 17 174.3 232.5541 215.534 \checkmark 21 166 174.4 232.010 215.010 \checkmark 244 22 174.3 232.4341 215.010 \checkmark 244 22 174.3 232.4341 215.010 \checkmark 244 22 174.3 232.4341 $215.015.562$ \checkmark 211 200 174.4 232.562 215.562 \checkmark 244 211 174.4 231.481 214.481 \checkmark 223 11 174.3 231.4891 214.8891 \checkmark 242 200 174.3 231.460 214.8891 \checkmark 242 230 174.3 231.460 214.8891 \checkmark 242 230 17 4.2 231.183 214.183 \checkmark 242 230	174.3 2332661 215.661 215.661 $1201711174.3332.554315.5341201711174.3332.554315.5341211614174.4232.010215.0101242219174.3232.934215.0101232017174.3232.934215.0101232017174.3232.010215.0121232017174.3232.03315.3751212017174.4232.502215.5621242110174.4231.481214.48112251169174.3231.481214.8891231714174.3231.400214.48314.48112317174.3231.400214.48314.48012317174.3231.400214.48314.48014.42231.183214.183$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$

FOLLOWER USED, REFUSAL CRITERIA INCREASED 50%.

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COMMENTS

PILE #

PAGE # 20F 3

Ð	EarthTech	
	A Tyco International Ltd. Company	

Sept. 12.05

DATE:

THE CITY OF WINNIPEG - WATER TREATMENT PLANT - CLEARWELL

								-			
PI	P	DEF	FIN	FIN	DES	A	PILE	FIN	I IAL S	ET	
LE N	PILE L	TH PI	IAL TO	VAL T	. CUT	CT. CUT ELEV.					
PILE NUMBER	LENGTH	DEPTH PREBORED	FINAL TOP ELEV.	FINAL TIP ELEV.	DES. CUTOFF ELEV.	ACT. CUTOFF ELEV.	PLUMBNESS	1 ST SET	2 ND SET	3 RD SET	MANUFACTURERS MARKINGS R = RE-DRIVEN
979	17	4.3	231.866	214,846			J	24	22	20	1036, May 24.05
918	17	1 1		214.784			1	23	20	(7	
977	17	4.2	231.690	215,690				21	17	15	1111, May; 30,05 1035, May 25.05 1074, May 25.05
976	17	4.3	231.858	215.858			/	20	16	14	1074, May 26.05
											, , , , , , , , , , , , , , , , , , , ,
											,
)
											,
											.)
	•	FOL	LOWER USI	ED, REFUSAI	. CRITERIA	INCREASE	D 50%.				
12:1	PILE#		Dea	dman	orles	in th		efter	noor		
			2,000		1						

page# 3 of 3

) E				PILE D	RIVING	RE	COF	RDS	D	ATE: Sept.13,05
					VIPEG – V	VATER TH	REATI	MENT	PLAN	(T - C)	LEARWELL
PILE	PILE	DEPT	FINA	FIN/	DES. (AC	PILE	FIN	AL S	ET	1
E NUMBER	E LENGTH	DEPTH PREBORED	FINAL TOP ELEV.	FINAL TIP ELEV.	DES. CUTOFF ELEV.	ACT. CUTOFF ELEV.	PLUMBNESS	1 ST SET	2 ND SET	3 RD SET	MANUFACTURERS MARKINGS R = RE-DRIVEN
218	17	4.4	232.128	215,128			1	21	19.	18	1109, May 30.05
219	17	4.3	231.968	214.968			1	20	17	15	1112, "
220	17	4.3	231.899	214.899			\checkmark	21	13	09	1110 , "
253	17	4.3	231.922	214.922			1	20	15	11	1117, "
222	17	4.2	232.070	215.070			/	19	15	13	1644, Sune 24.05
)
)
)
					OPTERIA	INCRE 40E	D 200/)
	•	FOL	LOWER USE	CD, REFUSAI	L CRITERIA	INCREASE	D 50%.				
-	PILE #	ing	10:45	Hanne	rina	COMMENT		to	Ser	idne	mples in S.W.com
	1501	6.9	-) 10 12	1 (0.1 1. 0	-10-		-10110	10			(1.1.2.1) (1.1.1)

PAGE# OF

) E				F	PILE DI	RIVING	RE	COF	RDS	D.	ATE:	ept14.05
		5	THE CITY	OF WIN	NN	IPEG – W	ATER TH	REAT	MENT	PLAN	T - C	LEARWEL	
PILE	PILE	DEPT	FINAL	FIN.		DES.	AC	PILE	FIN	AL SI	ET	•	
E NUMBER	LE LENGTH	DEPTH PREBORED	AL TOP ELEV.	FINAL TIP ELEV.		DES. CUTOFF ELEV.	ACT. CUTOFF ELEV.	PLUMBNESS	1 ST SET	2 ND SET	3 RD SET	M	JFAČTURERS ARKINGS RE-DRIVEN
23	17	43	232.672	215.07	2			V	21	19.	16	1040.	Nay 27,05
233	17	4.2	232.008	215.00	8			\checkmark	23	21	19	1116.	May 30,05
232	17	42	231.898	214.898	3	•		v.	22	20	1%		·
234	17	4,2	231.823	214.82	3.			\checkmark	23	21	19	1095	May 27.05
246	17	4.3	232.138			8		1	20	17	16	1649.	June 24,05
591	17	43	232.081	215.08	1			J	21	18	15	1647	
593	17	43	232.079	215.070	7			\checkmark	20	19	14	1643,	
5972	17	43	231.967	214.96	7			3	19	17	11	1526	11
598	17	43	232, 135 2 32.094	215.133				\checkmark	21	17	16	1646))(
569	17	4.3.	231.397	214.39	7			~	21	20	19	1840	June 3, 05
	•	FOL	LOWER USI	the second se	-	CRITERIA	INCREASE	D 50%.					
	PILE #	į.	۰.				COMMENT	ſS		1			

COMMENTS

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THE CITY OF WINNIPEG - WATER TREATMENT PLANT - CLEARWELL

			THE CIT	OF WIN	di EG - W	ALEN II	Uni	112111	I DAI	1 - C.	GEARWELL	,
					D		H					
PI	PI	DEP	FINAL	FIN	ES.	A	PILE	FIN	AL S	EΤ	4	
PILE	PILE	TH	AL	IAL	CL	CT.	1.255					
NUMBER	LENGTH	DEPTH PREBORED	TOP	FINAL TIP ELEV	DES. CUTOFF ELEV	ACT. CUTOFF ELEV.	PLUMBNESS				MANU	FACTURERS
1BE	GTI	BOR	ELEV	ELE	FEI	OFI	BNE	1 ST		3RD		ARKINGS
R	L T	ED	ΞV.	V.	EV.		SSE	SET	SET	SET	R = R	E-DRIVEN
245	17	4,2	236.952	213.952			1	21	19.	17	1648	June 24,05
235	17	43	231,350	214.350			1	23	18	13	1647	11
237	17	42	231,227	214.227			V	22	17	15	1642	
238	17	4.2	231.463	214.463			/	20	18	14	1645	11
248	17	43	232.193	215,193			~	21	17	13	1616	June 23,05
249	17	4.3	232.101	215,101			\checkmark	20	16	12	1590	υ
230	17	43	231.631	214.631			1	21	17	15	NA	,1
227	17	4.2	231.973	214.973			\checkmark	23	19	17	1589	D
229	17	43	232,130	215,130			1	20	19	14	1611	June 2305
250	17	43	231,954	214.954			1	19	17	15	1588)

FOLLOWER USED, REFUSAL CRITERIA INCREASED 50%. •

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COMMENTS

PILE # 2:20 standing 3:00 H s. fammering .*

PAGE#ZOF 4

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	ÐE		thTeo	ch	PILE D	ORIVINO	S RE	COF	RDS	D	ATE: So	pt/4,05.]
			ernational Ltd. Co THE CITY	OF WIN	NIPEG - Y	WATER TI	REAT	MENT	PLAN	T – C	LEARWEL	4	
PIL	PILE	DEPT	FINA	FINAL	DES. (AC	PILE	FIN	AL S	ET	• •		
PILE NUMBER		'H PRE	FINAL TOP ELEV		CUTOFF	ACT. CUTOFF ELEV.	PLUM				MANI	JFACTURERS	1
ABER *	LENGTH	DEPTH PREBORED	ELEV.	TIP ELEV.	F ELEV.	COFF	PLUMBNESS .	1 ST SET	2 ND SET	3 RD SET	M	ARKINGS RE-DRIVEN	
228	17	4.2	232.095	215,099	5		V	21	19.	12	1594	Jure23.05	
226	11	43	231.851	2.14.851			1	20	16	10	1593	, June23.05	>
251	17	4.2	232.234	215,234			V	23	22	21	1118	May 30,06	
225	17	43	231.870				1	23	21	20	1089	, May 27.05	
223	17	4.2	231.878	214.878			\checkmark	24	19	17	1585	June 3.05	-
224	11	43	231.954	214.954	ł		~	21	11	09	1641	June 24.05	->
578	17	4,2	231,092	214.092	2		\bigvee	24	20	17	1531	June 21,05	
577	17	4.3	231.868	214.869	3		1	11	07	05	1530,	11	
221	17	3,2					1	17	15	10	1529,	11	
252	17	3.3	231.909	214,909	1		1	19	16	13	1587.	June 23,05	OL:

de.

COMMENTS PILE # .0

PAGE# 3 OF 4

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DATE: Sept. 14,05

THE CITY OF WINNIPEG - WATER TREATMENT PLANT - CLEARWELL

PILE NUMBER 576 579 580 575	PILE LENGTH I I I I I	3,2	FINAL TOP ELEV.		DES. CUTOFF ELEV.	ACT. CUTOFF ELEV.	PILE PLUMBNESS	FI 1 ST SET	AL SI 2 ND SET	3 RD	М	JFACTURERS ARKINGS RE-DRIVEN
NUMBER 576 576 580	LENGTH I I	3.3 3.2	232,071 231,667	Th ELEV.	CUTOFF	ACT. CUTOFF ELEV.	1.515.1				М	ARKINGS
576 579 581 580	п П П	3.3 3.2	232,071 231,667	215.071	€LEV.	PFF	NESS					
579 581 580	17 17	3,2	231,667						T	SET		
¥ 581 580	· .			015117			\checkmark	20	19	14	1558,	June 22,05
580	· .	33		2191001		×	~	21	18	13	1581,	11
1.79	17		229.491	212.4911			1	23	23	21	1553,	u
575	10 D	3.3	-				3	21	19	17	1559	<u></u> 11 ,54
1205	17	33	231.749	214.749			\bigvee	23	22	20	1582	11
582	17	3,2	-232.021	215,021			V	23	20	19	1615	June 23,0
574	17	- 3		214.848			\checkmark	22	19	17	1054,	June 23,0 May 25,00
583	17	3.3					1	22	17	16	1094,	May 27.02
585	17	3.2	231,823	214.823			1	22	16	15	1049,	
584	11	3.3	-				V	23	19	14	1092	May 25,02 May 270
	*	FOL	LOWER USE	ED, REFUSAL	CRITERIA	INCREASE	D 50%.	di.				
·]	PILE #			*	14-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	COMMEN	rs					÷.
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					(#)				•			
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		¥2					4	Ş.	, , ,			
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PAGE # 4 OF 4

۲. INSPECTOR:

EarthTech

Tyco International Ltd. Company

PILE DRIVING RECORDS

DATE: Sept. 15,05

THE CITY OF WINNIPEG - WATER TREATMENT PLANT - CLEARWELL

-							1	1	1			
PILE	PI	DEP	FIN	FIN	DES.	A	PILE	FIN	AL S	ET	1	
LE NUMBER	PILE LENGTH	DEPTH PREBORED	FINAL TOP ELEV.	FINAL TIP ELEV.	DES. CUTOFF ELEV.	ACT. CUTOFF ELEV.	E PLUMBNESS	1 ST SET	2 ND SET	3 RD SET	М	JFACTURERS ARKINGS RE-DRIVEN
573	n	4.0	231,937	214.937			\checkmark	21	17	16	1113	May 30,05
596	17	33					1	20	18	15	1115	1
572	n	3.3	232.252	215.252			1	21	19	16	1537	June21,05
587	17	3.3	-				V	23	17	14	1586	Jun02,05
589	17	3.2	232.488	215,488			1	20	05	0	1583	۱٬
588	17	3.3					1	21	03	0	1614	June 23,05
571	17	3.2	232,349	215.349			~	13	05	0	1557	June 23,05
247	n	3.2	232,095	25.095			1	18	14	07	1554	
590	17	3.3	232.436	215,436			V	11	06	0	1580))
570	17	3.2		215.053			\checkmark	14	09	06	1556	/ ./

FOLLOWER USED, REFUSAL CRITERIA INCREASED 50%.

COMMENTS PILE # 9:45 waiting for lay-out. 588 589 57 stopped dead

PAGE# OF

		E	A Tyco Int		ompany	PILE D			_				ept.16,05	
	PILE	PI			FINAL	DES.		PILE		IAL S	ľ –			
	LE NUMBER	PILE LENGTH	DEPTH PREBORED	FINAL TOP ELEV.	AL TIP ELEV.	CUTOFF ELEV	ACT. CUTOFF ELEV.	PLUMBNESS	1 ST SET	2 ND SET	3 RD SET	M	UFACTURERS IARKINGS RE-DRIVEN	
	657	17	4.0	232.495	2.15,495	;		5	13	02	0	1535	June 21,05	
	654	17		232.570				1	15	02	0	1548	10	
	642	17	1	232.466				·V	17	07	oa	1533	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
	644	17		232,438				1	19	17	05	1521	11	
	643	17	3.2	232,470	215,470			1	21	13	11	NA	, , , , , , , , , , , , , , , , , , , ,	* js
	653	17	3,3					~	19	16	10	1532	, ,	
	652	17	3.3	232,441	215.441				19	17	10	NA.	11	
645	646	17		232.446				1	20	15	12	1528	21	
	632	17		232.412				/	18	11	05	NA '	June 22,05	
	617	17	3.3	232.588	215.588	,		1	03	0	0	1526	June 21.05	

FOLLOWER USED, REFUSAL CRITERIA INCREASED 50%. •

COMMENTS

PILF#	COMMENTS	
#657#654	COMMENTS	
-017,654		
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PAGE # | OF 3

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THE CITY OF WINNIPEG - WATER TREATMENT PLANT - CLEARWELL

							1	1				
q	р	DEI	FIN	FI	DES	A	PILE	FIN	AL SI	ET		
PILE NUMBER	PILE LENGTH	DEPTH PREBORED	FINAL TOP ELEV.	FINAL TIP ELEV.	DES. CUTOFF ELEV.	ACT. CUTOFF ELEV.	E PLUMBNESS	1 ST SET	2 ND SET	3 RD SET	MA	FACTURERS ARKINGS RE-DRIVEN
606	17	3.2	232.574	215.574			1	21	16:	09	NA	June 22.05
615	17	4.3	232.577	215.577			1	20	05	0.3	NA	June 21,05
616	17	4.5	252.686	215.686			1	21	23	20	NA .	1/
627	17		232.534	1996			V	05	0	Ò	1549	
614	17			215,494			1	20	17	15	NA	, June 2205
607	11	30		215.523			1	19	13	07	NA	, <i>1</i> ,
656	17			215.435			1	22	15	12	1497	June 20,05
727	17	1		215.422				al	17	13	1517	Sured1.05
763	17			215,475			/	24	16	06	1496	June 20.05
764	17		232,499				\checkmark	21	20	18	NA	,,,

FOLLOWER USED, REFUSAL CRITERIA INCREASED 50%.

PILE #	COMMENTS	
627		
0~1)		
		10 Th 10

PAGE # DOF 3

Ð	EarthTech	F
	A Tyce International Ltd. Company	-

PILE DRIVING RECORDS

DATE: Sept 16.05

THE CITY OF WINNIPEG - WATER TREATMENT PLANT - CLEARWELL

		U	Ŧ		DE		PI	FIN	AL SI	ET	
PILE	PILE	DEPTH	FINAL	FINAL	3S. C	ACT	PILE I				
E NUMBER	E LENGTH	H PREBORED	L TOP ELEV.	L TIP ELEV.	DES. CUTOFF ELEV.	ACT. CUTOFF ELEV.	PLUMBNESS	1 ST SET	2 ND SET	3 RD SET	MANUFACTURERS MARKINGS R = RE-DRIVEN
766	17	4.0	232.487	215.487			/	14	13.	07	1515, June 20,05
765	17	44	1				1	21	16	14	1516, "
726	17	4.1					V	22	17	08	1514, "
658	17	32					V	20	14	07	MA, "
620	17	3.9					1	13	09	05	1518, June 21,05
605	17	3.8)
											i i i i i
	•	FOL	LOWER US	ED, REFUSA	L CRITERIA	A INCREASE	CD 50%.	1			
	PILE #	i				COMMEN	TS				1

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PAGE#3 OF 3

INSPECTOR:

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Ð	EarthTech
1000	A Tyco International Ltd. Company

PILE DRIVING RECORDS

DATE: Sept. 19.05

THE CITY OF WINNIPEG - WATER TREATMENT PLANT - CLEARWEL

			THE CITY	OF WINN	IPEG - W	ATER TI	CEAT	VILLIN I	LAN	1-01	JEAR N BLL	
р	Ч	DEI	FIN	FI	DES.	A	PILE	FIN	AL SI	ET		
PILE NUMBER	PILE LENGTH	DEPTH PREBORED	FINAL TOP ELEV.	FINAL TIP ELEV.	DES. CUTOFF ELEV.	ACT. CUTOFF ELEV.	E PLUMBNESS	1 ST SET	2 ND SET	3 RD SET	MA	FACTURERS RKINGS E-DRIVEN
730	17	45			19		1	21	03	Ó	1486;	June 20, 55
229	17	4.0					\checkmark	20	17	15	1485,	лI
655	17	41	232.651	215.651			1	13	0	0	NA	11
728	17	3.6					V	10	O	0	NA	11
762	17	4.0	232.58	215.58)			1	11	04	01	1520	June 21.05
638	17	4.4					1	5	0	C	1503	June 20,05
640	17		232,588	215.588			\bigvee	14	03	02	NA	-1
639	17	3.4	229.513	212.513			1	21	20	19	NA) 1
618	17	3,2					\checkmark	03	0	0	NA) (/
633	17	4.2	232.438	215.438			V	13	07	01	1491)
000	*	•		ED, REFUSAI	CRITERIA	INCREASE	CD 50%.					1
	PILE#	L.				COMMEN	TS					

PILE# COMMENTS #130 #655 #728 #638 #618

PAGE#1 OF 2

		A Tyco Inte		mpany		RIVING					ATE: Sept. 19.05
			THE CITY	OF WINN	IPEG – W	ATER TR	EATN	AENT	PLAN	T - CI	LEARWELL
PILE NUMBER	PILE LENGTH	DEPTH PREBORED	FINAL TOP ELEV.	FINAL TIP ELEV.	DES. CUTOFF ELEV.	ACT. CUTOFF ELEV.	PILE PLUMBNESS		AL SI 2 ND SET		MANUFACTURERS MARKINGS R = RE-DRIVEN
1,11	П	4.2	222 101	our day			1	20	11.	07	June 20,05
641	11	4.2	032.496	215,496				000	11.	01)
	• PILE #		LOWER US	ED, REFUSA	L CRITERIA	COMMEN					· · ·
											<i>y</i>

page# 20F 2

INSPECTOR:

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					hart							
) E				/ PILE D							1.20.05
	•		THE CITY	OF WINN	VIPEG – W	ATER TR	EATI	MENT	PLAN	T - C	LEARWELL	
PILE	PILE	DEPTH	FINAL	FINAL	DES.	AC	PILE	FIN	AL SI	ET	1	
LE NU	1.	TH PR			CUTO	ACT. CUTOFF ELEV.	PLUN				MANUE	ACTURERS
NUMBER	LENGTH	PREBORED	TOP ELEV.	TIP ELEV.	CUTOFF ELEV.	TOFF V.	PLUMBNESS	1 ST SET	2 ND SET	3 RD SET	MAF	ACTORERS RKINGS -DRIVEN
637	17	3.5			đ		V	11	02	0	NA	June 17.05
625	17	3.5	232,160	215.160			\checkmark	23	19	15	1498	June 17.05 June 20.05 June 17.05 June 10,05
624	1.7	35	232.265	215.265			1	21	18	14	NAS	June 17,05
623	'n	3.5	*				V	23	21	að	1502	, June 20,05
622	n	3.5					V .	19	12	05	1523	June 21.05
634	17	3,5	232.385	215.385			V	20	17	13	1519	5 "
621	n	3.5					V	23	19	15	1527) II
619	17	3.5	341 232.438	38 2,15,4 38			J	21	11	07	1629	i1
602	17	3.5	MOUR	pile to	sept	. 21 ST	V					· ·

• FOLLOWER USED, REFUSAL CRITERIA INCREASED 50%.

PILE# COMMI	ENTS	
#637, stopped dead.	ь ^{-у}	* x
) sopped	12. E.	
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PAGE# (OF

			A Tyco Int	thTee ernational Ltd. Co THE CITY	ompany	PILE D			- and the second		√T – C	<i>D-ey</i> LEARWELI	7.21.05
	PILE	PILE	DEPTH	FINAL	FINAL	DES. CU	ACT. E	PILE PI	FIN	IAL S	ET	1	
	PILE NUMBER	LENGTH	PREBORED	TOP ELEV.	TIP ELEV.	CUTOFF ELEV.	CT. CUTOFF ELEV.	PLUMBNESS	1 ST SET	2 ND SET	3 RD SET	MA	FACTURERS ARKINGS CE-DRIVEN
~	603	"m-	3.5	man				\checkmark	09	07.	03	NA	June 17,05
	602	IJ	3.5	232,032	215.032			1	23	22	21	1470	u.
	603	17	3.5	232,090	215.090			/	21	17	09	NA,	ÇÎ.
	733	17	3.4	232.464	215,464				05	02	0	1468,	1.
	636	17	3.5	1.00				1	09	10	03	1484	(/
	635	17	3.5					~	17	14	06	1491	11
-	626	7K	3.5	232.391	215.391			\checkmark	15	02	0	NA	, ,
	601	17	3.4	232.253	215.253			\checkmark	13	11	04	1493	, , ,
1	736	17	3.4	232,119	215.19			~	23		22	1494	M
	760	17	3.3	232.606	215.606				21	11	03	1465) 11
	7	×	FOL	LOWER USE	D, REFUSA	L CRITERIA	INCREASE	D 50%.				*)
		PILE#	-51	artel c	m Sep	520	COMMENT		shiv	150	ublee	s couldn'	4 be complete
			Ć	-//	N.								
		$\frac{00}{0}$	1	hering	2 drivi	Nay 9:5	0 stan	ding	Piles	59	dril	ling.	
					Ŷ								
#733#626,													

PAGE# OF 3

INSPECTOR:

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	ÐE	A Tyco Inte		ompany	PILE D					DATE: Sept.21.05			
		1	THE CITY	OF WINN	IPEG – W	ATER TI	REATN	MENT	PLAN	T - C	LEARWEI	T	
PILE	PILE	DEPTH	FINAL	FINAL	DES. (AC	PILE	FIN	AL S	ET	Ţ		
LE NUMBER	LE LENGTH	FH PREBORED	AL TOP ELEV.	AL TIP ELEV.	DES. CUTOFF ELEV.	ACT. CUTOFF ELEV.	PLUMBNESS	1 st Set	2 ND SET	3 RD SET	N	UFACTURERS IARKINGS RE-DRIVEN	
761	17	3,4	232,540	215.540			V				1467	June 17,05	
759	17	3,2	232.610	215.610			V				1421	June 17,05 J June 15,05	
158	17	3,3	232.368	215:368			2%.w				1443	P	
757	17	3,3	232.391	215.391			V				1423	<u>۱</u>	
732	17	3.3					5				1463	June 17,05	
731	17	3.2									1462	()	
734	n	3,3	252,491	2215.490			V				1455	June 16.05	
135	17	3.2	2.32.207	215.207			5				1451	6	
737	(7	32	232.119	100							M50	· · · · · · · · · · · · · · · · · · ·	
749	17	3,2	231.955	214,955			1	21	15	11	NA,	June. 17.05	

FOLLOWER USED, REFUSAL CRITERIA INCREASED 50%.

PILE #	COMMENTS	
# 731 stopped dea	d.	
Jerson		

PAGE#20F3

) E				PILE D	RIVING	; RE	COF	RDS	D	^{ATE:} S-e	ept.21.05
					IPEG – W	ATER TH	EATI	MENT	PLAN	T – C	LEARWEI	Ľ
PI	PI	DEP	FIN.	FIN	DES.	A	PILE	FIN	IAL S	ET	1	
PILE NUMBER	PILE LENGTH	DEPTH PREBORED	FINAL TOP ELEV.	FINAL TIP ELEV.	DES. CUTOFF ELEV.	ACT. CUTOFF ELEV.	PLUMBNESS	1 ST SET	2 ND SET	3 RD SET	M	UFACTURERS IARKINGS RE-DRIVEN
738	17	3.3	231,833	2.14.833			V	23	22	19)	1464	June 17.05 June 16.05 June 17.05
600	я н	3,2	232.013	215.013			\checkmark	23	21	15	1453.	June 16.05
739	15	3.2	231.826	214.826			1	21	20	13	1466	June 17, 05
599	ц	3.3	231,950	215.950			\checkmark	23	22	21	NA)
740	4	3.2					1	24	22	19	1447	Jue 17.05
741	ι,	3.3	231.939	214.939			\checkmark	23	22	21	1449) []
							-	-				
	•	FOL	LOWER USI	ED, REFUSA	L CRITERIA	INCREASE	D 50%.		1			
	PILE #					COMMEN	ſS					

page#3 of 3

C	EarthTech PUE DRIVING RECORDS DATE:													
U	DE	A Tyce int	ernational Ltd. C		PILE D	RIVING	G RE	COF	RDS		Sept. 22.05			
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	THE CITY	OF WINN	NIPEG – W	ATER TI	REATI	MENT	PLAN	T - C	LEARWELL			
PILE	FINAL DEPTH PILE		FINAL	DES.	A	PILE	FIN	AL S	ET	1				
	PILE L	TH PI	AL TO	AL T	CUT	CT. CUT ELEV.	16					5 a		
NUMBER	LENGTH	DEPTH PREBORED	TOP ELEV	TIP ELEV	DES. CUTOFF ELEV	ACT. CUTOFF ELEV.	PLUMBNESS	1 ST	2 ND	3 RD	MA	FACTURERS RKINGS		
BR MAR	H	RED	EV.	ΞV.	LEV.	Ч	ESS	SET	SET	SET	R = R	E-DRIVEN		
748	17	3.2	.232.159	215.159			1	21	20	17	1445.	June 15.05		
756	17	3.4	232.225	a15,225			17.00	21	15	17	1520	June 16.05		
755	17	3.3	232.154	215,154				20	17	19	1422,	June 15,05		
754	17	3.3	232.149	215.149				23	22	19	1446) /1		
753	17	3.3	232.056	215.056			~	22	17	05	1454	u		
855	17	32	232,049	215.049			~	24	22	17	1444) 17		
752	17	3.2	232.037	215,037			1%	21	17	15	1494,	June 16.05		
150	17	3.3	231.913	214.913			126	22	19	18	1492.	11		
751	17	3.2	231.895	214,895		. (1	20	17	14	1490,	(\		
849	П	3.3	232,588	215.588			Ka w	20	18	16	1424,	June 15,05		

FOLLOWER USED, REFUSAL CRITERIA INCREASED 50%.

PILE #	COMMENTS		
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PAGE# | OF 2

A Tyce International Ltd. Company	PILE DRI
A HEO INCOMPTONE LIG. COMPANY	

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VING RECORDS

DATE:	<i></i>	
C	ept.22	2.05

THE CITY OF WINNIPEG - WATER TREATMENT PLANT - CLEARWELL

	-					1	1	-	-	
_	DE	FI	F	DE		PII	FIN	AL S	ET	
PILE	PTH	NAL	INAL	S. CL	ACT. I	2 12 1				1
LENGTH	PREBORED	TOP ELEV.	TIP ELEV.	TOFF ELEV.	. CUTOFF BLEV.		1 st Set	2 ND SET	3 RD SET	MANUFACTURERS MARKINGS R = RE-DRIVEN
17	3,2	232.264	215,264			126	23	17	15	1417, June 15,05
17	33	232.288	215,288			1400		16	15	1417, June 15,05 1415, June 14,05
17	3.3	232.216	215,216		14.	1	19	18	17	1411 , "
17	3.2	232,255	215.255)	23	23	an	1419, June 15.05
17	3.2	232.115	215,115			1	21	20	191	NA, "
						\checkmark				NA,
										÷
	17 17	LENGTH 7,2 17 3,2 17 3,3 17 3,2 17 1 17 1 17 1 17 1 17 1 17 1 17 1 17	17 3.2 232.264 17 3.2 232.288 17 3.3 232.288 17 3.2 232.200 17 3.2 232.255 17 3.2 232.115 17 3.3 232.326	17 3.2 232.264 2.15.264 17 3.3 232.298 2.15.288 17 3.3 232.206 2.15.216 17 3.2 232.255 2.15.255 17 3.2 232.115 2.15.115 17 3.2 232.115 2.15.115 17 3.3 232.326 2.15.328	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$					

FOLLOWER USED, REFUSAL CRITERIA INCREASED 50%.

韵 COMMENTS PILE # #3 851 856 852 of 853 89 sile strands sticking. beyond end out breaking when 1-1.5M piles ne hammerino low rejected other All piles 6 -10 on one Site rese 0 Con-force. ordolem sort. Lica aut .

PAGE # ZOF 2

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SID	E		thTeo		PILE D	RIVING	RE	COR	RDS	D	ATE:	ept. 23.05	
		A IYCO ING	ernational Ltd. Co THE CITY	OF WINN	NIPEG – WATER TREATMENT PLANT – CLEARWELL								
PILE			FIN,	DES. (AC	PILE	FINAL SET		ET	1			
LE NUMBER	PILE LENGTH	DEPTH PREBORED	FINAL TOP ELEV.	FINAL TIP ELEV.	DES. CUTOFF ELEV.	ACT. CUTOFF ELEV.	PLUMBNESS	1 ST SET	2 ND SET	3 RD SET	1	IUFACTURERS MARKINGS = RE-DRIVEN	
747	17	4,4	232.44	215,484			\checkmark	23	21.	20	1357	June 13, 05	
745	1.	4.3					1	21	08	02	NA	June 12,05	
744	1,	4.4	231,987	214.987			~	19	16	07	NA	June 10,05	
742	u		231,917				V	24	23	21	1360	June 13,05	
867		1		214.892	-		V .	21	17	15	1370	17	
868		4.3					\checkmark	23	21	14	1390	June 14.05	
743		4.5	232.107	215,107			1	22	20	14	1364	June 13,05	
254	a	4.5		215,056			\checkmark	22	20	17	1415	June 15,05	
255	ı!	42		214.900			1	21	101	15	1357	11	

FOLLOWER USED, REFUSAL CRITERIA INCREASED 50%. .

4,2 231.900 214.900

4. 2 231.979 214.979

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COMMENTS PILE #

PAGE# | OF 2

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Ð	EarthTech	
$\mathbf{\nabla}$	A Two International Ltd Company	

PILE DRIVING RECORDS

DATE: Sept23

THE CITY OF WINNIPEG - WATER TREATMENT PLANT - CLEARWELL

PI	PI	DEP	FIN	FIN	DES.	A	PILE	FIN	AL SI	ET	1	
PILE NUMBER	PILE LENGTH	DEPTH PREBORED	FINAL TOP ELEV.	FINAL TIP ELEV.	DES. CUTOFF ELEV.	ACT. CUTOFF ELEV.	PLUMBNESS	1 ST SET	2 ND SET	3 RD SET	MANU	JFACTURERS ARKINGS RE-DRIVEN
866	17	4.2	231.872	214,872			1	20	17.	13	NA.	June 16.05
746	17	4.3	231.906	214.906			V	21	20	18	1330	June 16.05 June 13,05 June 17,05
902	17	4.4		215,313			1	24	19	17	1237,	June 17,05
865	17	4.4	231.864	214.864				22	17	11	NA,	11
												Ŷ
												18 ¹
												Z ^{ju}
												. <i>U</i>

FOLLOWER USED, REFUSAL CRITERIA INCREASED 50%.

PILE # COMMENTS

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				_								
	ÐE				PILE D	RIVING	RE	COR	RDS	D	Sept 24 05	
			and the second second second second second	A STATISTICS STATISTICS	NIPEG – WATER TREATMENT PLANT – CLEARWELL							
PILE	PILE	DEPTH	FINAI	FINA	DES. CI	ACT	PILE I	FIN	AL S	ET	1	
NUMBER	LENGTH	I PREBORED	FINAL TOP ELEV.	FINAL TIP ELEV.	DES. CUTOFF ELEV.	ACT. CUTOFF ELEV.	PLUMBNESS	1 ST SET	2 ND SET	3 RD SET	MANUFACTURERS MARKINGS R = RE-DRIVEN	
941	17	3.5	232.426	215.426			v	19	16	11	1233 July 7,05	
859	17	3.5	231.702	214.702			1	17	12	6	into down	
860	17	3.4	231.890	214.890		×	1	17	11	9	1291 Juna 9,03	
861	17	3.4	231.866	214.866			\checkmark	12	9	7	Info down	
863	17	3.5	231.957	214.957			/	22	7	3	1231 July 7,05	
862	17	3.4	232.078	215.078			1	19	12	3		
					- "a							
					Ex.							

• FOLLOWER USED, REFUSAL CRITERIA INCREASED 50%.

PILE #	COMMENTS	
Start diving @ 10:55	comments com. / Driving & re-driving	
))	

PAGE# / OF



PILE DRIVING RECORDS

DATE: Sept. 26.05 THE CITY OF WINNIPEG - WATER TREATMENT PLANT - CLEARWEL

						and the second second						
H	Н	DE	FI	FI	DES	*	PILE	FIN	AL SI	ET		
PILE	PILE	PTF	FINAL	FINAL	. CI	ACT					1	
NUMBER	ELENGTH	DEPTH PREBORED	TOP ELEV.	_ TIP ELEV.	DES. CUTOFF ELEV.	ACT. CUTOFF ELEV.	PLUMBNESS	1 ST SET	2 ND SET	3 RD SET	MA	FACTURERS RKINGS E-DRIVEN
857	17	42	232.065	215.065		3	\checkmark	21	17.	14	1334	June 10.05
846	17	1.2	232.270			and the second	V	23	21	19	1280	, June 08,05
961	17	4.3	231.954	214.954		1	1	24	23	19	NA	June 2.05
845	17	4.3	232.548	215.548			\checkmark	24	20	21	NA	, June B,05
847	17	4,2	232.310				.1	23	21	19	1338	June 10,05
848	17	4.4					V	21	19	18	1329	. "
980	17		231.347				1	23	21	20	1335	11
858	17	4.3	231.702	214.702			1	21	17	15	NA,	1(
840	11	1	232.716				V	23	21	19	1192,	June ob, 05
839	11	4.3	232,405	215,405			1	21	20	17	1299	1

FOLLOWER USED, REFUSAL CRITERIA INCREASED 50%. •

COMMENTS PILE# 7:50 Hammering, 10:00 waiting for 7:20 Harmering, 7:30 standing lay-out ٩.,

PAGE# | OF 3

i.	SID					PILE D	RIVING	; RE	COR	RDS	D	ATE: Sept 26.05
19			0	THE CITY	OF WINN	IPEG – W	ATER TH	EATI	MENT	PLAN	T - C	LEARWELL
	PILE	PILE	DEP	FIN/	FIN	DES.	AC	PILE	FIN	AL SI	ET	1.
		11.525.00	TH PRE	FINAL TOP ELEV	FINAL TIP ELEV	CUTOF	ACT. CUTOFF ELEV.	PLUMBNES				MANUFACTURERS
	NUMBER	LENGTH	DEPTH PREBORED	ELEV.	ELEV.	CUTOFF ELEV.	FOFF '.	IBNESS	1 st Set	2 ND SET	3 RD SET	MARKINGS R = RE-DRIVEN
	834	47	42	232,568	2,15,568			1	17	09.	02	1938, July 7,05
	837	17	12	232.633				1	15	03	01	1298, June 09.05
	838	17	4.3	232.737	215,737			V	05	01	0	1198, June 06,05
	835	17	4.2	232.650	215.650			V	23	19	02	1297, June 09.05
	436	17	4.3	232,672	215.672			1	19	15	07	1193, Jure 06,05
	818	17	4.2	232.665	215.665				П	07	01	1236 , June 07,05
6	817	17	42	232.665	215.665			1	15	03	0	1189, June 06.05
167	7687	17	1	-232,646				V	21	07	05	NA
69	769	17	1-	232,668				1	20	11	03	1293, June 0905
	816	17	4,3	232.715	215.715	L CRITERIA		V	20	ID	06	1295, "

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PILE #	COMMENTS	
S:45 HAMMER TIME		
5:45 HAMMER TIME # 838 # 817		
,011		
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PAGE#2 OF 3

€	EarthTech	
	A Tyco International Ltd. Company	

PILE DRIVING RECORDS



THE CITY OF WINNIPEG - WATER TREATMENT PLANT - CLEARWELL

. (PI	PI	DEP	FIN	FIN	DES.	A	PILE	FIN	AL SI	ET	1
	PILE NI	PILE LI	TH PR	AL TC	IAL TI	CUTC	CT. CI ELE					
	NUMBER	LENGTH	DEPTH PREBORED	FINAL TOP ELEV.	FINAL TIP ELEV.	DES. CUTOFF ELEV.	ACT. CUTOFF ELEV.	PLUMBNESS	1 ST SET	2 ND SET	3 RD SET	MANUFACTURERS MARKINGS R = RE-DRIVEN
799	799	17	43	232.62	215.624			\checkmark	69	01	Õ	1190, June 69.05
	770	17	4.2	-232.765	215,765			1	14	12	03	1190, June 89.05 NA,
			ii.									
												a et
												,
												/
			FOL	LOWED LICE	D DEFLICA	CDITEDIA	INCREASE	D 509/				-
	2	•	FOL	LOWER USE	CD, REFUSAI	L CRITERIA						
		PILE #					COMMENT	8				•
	# 77	0		sto	ppal .	dead						

	ÐE				PILE D	RIVING	RE	COF	RDS	D	ATE:	ept. 27.05
			THE CITY	OF WINN	VIPEG – W	ATER TH	EATI	MENT	PLAN	T – C	LEARWEL	Ъ.
PILE	PILE	DEPT	FINA	FIN/	DES. (ACT. E	PILE	FIN	AL S	ET	ţ.	· .
E NUMBER	E LENGTH	DEPTH PREBORED	FINAL TOP ELEV.	FINAL TIP ELEV.	DES. CUTOFF ELEV.	T. CUTOFF ELEV.	PLUMBNESS	1 ST SET	2 ND SET	3 RD SET	M	JFACTURERS ARKINGS RE-DRIVEN
419	17	4.2	232.630	215.630			\checkmark	23	19.	15	1199	Janob.05
815	17	1		215.628			~	21	20	19	1356,	Janob,05 Jam.13,05
813	11		232.601				~	20	07	6	1385,	U
800	17		232.585				V	22	19	18	1386,	Ш.
814	17	1.	232,731				1	20	17	07	NA	
841	16	4.5	231.914	215.914		4	12ª	20	13	06	4123	, Aug 31.05
830	16	4.4	231.663	215.663			/	20	17	11	4128,	NI NI
832	16	1.0	231.657				V	17	11	05	4129	17 3 3
83)	16	4,9	231.630	215.630			1	19	16	14	4120	11
821	16		231.539	2 15.539 ED, REFUSAI		•		17	1/	05	4144	Aug30.05

 	COMMENTS	
ACCESSION CONTRACTOR CONTRACTOR		

PILE #	COMMENTS	
Þ		
# 813.		
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PAGE # | OF

) E				PILE D	RIVING	RE	COF	RDS	D	ATE: Sep	+27.05
					NIPEG – W	ATER TH	REATI	MENT	PLAN	T - C	U U	
PILE	PILE	DEP	FINAL	FIN	DES.	A	PILE	FIN	AL S	ET	1	
LE NUMBER	LE LENGTH	DEPTH PREBORED	AL TOP ELEV.	FINAL TIP ELEV.	DES. CUTOFF ELEV.	ACT. CUTOFF ELEV.	PLUMBNESS	1 ST SET	2 ND SET	3 RD SET	М	JFACTURERS ARKINGS RE-DRIVEN
811	16	4.4	231.562	215.562			1	23	17.	09	1125	5, Aug31.05
809	16	4.6	231,562	215.502			\checkmark	21	19	13	4122	.)
802	17		232,395				1	19	15	12	1196	June 13.05
81D	16	4.5	231.661				1	17	13	0	(13)	, Aug31.05
812	16	4.2	231.606	215.606				15	08	05	4121)
801	17		232.509	215,509				21	15	09	1356,	June 13.05
833	16	43					1	20	16	64	NA)
820	16	43	231.602	215.602			J	17	13	07	4130	, Aug-31.05
843	16	4.6	231.806	215.806			/	17	07	Õ	4118	Aug. 30.05
828	16	4.5	231.631	215.631			\checkmark	11	06	0	4117)
	•	FOL	LOWER US	ED, REFUSA	AL CRITERIA	INCREASE	D 50%.					/
	PILE #					COMMEN	rs					
#91C) # 4	43 .	626	stopped	dedd						9-9. 	
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	ÐE				PILE D	RIVING	RE	COF	RDS	D.	ATE:	ept.	27.05
				OF WINN	NIPEG – W	ATER TH	REATI	MENT	PLAN	T - C	LEARWEI	LL	
PILE	PILE	DEPT	FINAL	FINAL	DES. C	AC'	PILE	FIN	i IAL Si	ET			
E NUMBER	E LENGTH	DEPTH PREBORED	L TOP ELEV.	L TIP ELEV.	DES. CUTOFF ELEV.	ACT. CUTOFF ELEV.	PLUMBNESS	1 ST SET	2 ND SET	3 RD SET	N	UFACT IARKIN RE-DR	IGS
826	16	4.4	231.509	215.509				21	17.	11	4113,	Ave.	.30.05
827	16	1		215,772			1	21	19	13	411	τ.	
842	16	4.3	231,790	215.790			\checkmark	22	13	09	NA,	a	5
829	16	4.4	231.63	215,631			\checkmark	17	12	09	4108	<i></i>	1973.
822	16	4.5	231.620	215.620			1	15	05	01	4102) "	
823	16	4.2	231.578	215.578			1	14	07	03	4106	<i>''</i>	
803	16	4.3		215,385			1	19	18	16	4103	, 11	i.
808	16	4.0		215.513			\checkmark	17	15	12	41397,	Ave	31.05
806	16	4.1	231.369	215.369			\checkmark	21	13	11	4105	, Aua	30.05
9156				215.550			\checkmark	14	07	06	4119	, 11	

FOLLOWER USED, REFUSAL CRITERIA INCREASED 50%.

PILE #	COMMENTS	
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PAGE#3 OF 4

	ÐE	A Tyco Int		ompany	PILE D						ATE: Sept. 27.05
			THE CITY	OF WINN	VIPEG – W	ATER TI	REAT	MENT	PLAN	T - C	LEARWELL
PILE	PILE	DEPT	FINA	FIN/	DES. (AC	PILE	FIN	i ALS	ET	
E NUMBER	E LENGTH	DEPTH PREBORED	FINAL TOP ELEV.	FINAL TIP ELEV.	DES. CUTOFF ELEV.	ACT. CUTOFF ELEV.	PLUMBNESS	1 ST SET	2 ND SET	3 RD SET	MANUFACTURERS MARKINGS R = RE-DRIVEN
803	16	4.0	231.370	215.370			/	1D	04	02	4116, Aug. 30.05
982	16	4.0	231.638	215.638			1	15	13	10	4116, Aug. 30.05 4135, Aug. 31.05
1020	16	4.0	231.703	215.703			J	15	12	09	NA,
844	16	4.2	231.612	215.612				18	14	12	NA,
1021	16	43	231.565	215,565				n	15	13	4130, Aug 31.05
425	16	4.4	231,533	215.533				21	17	10	4143, "
	•	FOL	LOWER USE	ED, REFUSAI	. CRITERIA	INCREASE	D 50%.				
	PILE #					COMMENT	rs				
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INSPECTOR:

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													S.	
	QID					PILE D	RIVING	; RE	COF	RDS	D	ate: Sie	pt.28	,05
Γ			1	THE CITY	OF WIN	NIPEG – W	ATER TR	REATI	MENT	PLAN	T - C	LEARWEL		
	PII	PI	DEPTH	FINAL	FINAL	DES.	A	PILE	FIN	AL S	ET	E		
	PILE NUMBER	PILE LENGTH	TH PREBORED	AL TOP ELEV.	AL TIP ELEV.	CUTOFF ELEV.	ACT. CUTOFF ELEV.	PLUMBNESS	1 ST SET	2 ND SET	3 RD SET	M	IFACTU ARKINC RE-DRIV	BS
1	翻	10	4.4	231.529	215,529			1	13	04	01	4115,	Aug 3	0.05
	1059	16	4.3	231.644	215.64	1		V	15	05	62	4126,	11	
	10536	16	4,4	231.437	215,45	7		~	16	12	04	4144,	10	
and the second se	1060	16	4,2	-231.469	215.469	<u> </u>		V	20	1	15	4136,	11	R.
	824		4,2	231.525	215.525	5		1	20	15	12	NA,	,(70
	1062	16	4.3					V	22	19	12	4130,	<i>/</i> ¹	.5
	464	16	4.2	231.367	215367				23	17	13	4131)	26 0
-	1018	16		231.970				1	24	15	<u>10</u>	4086	pray.	25.05
auto -	1017	16	4.3	231.687				./	21	19	14	NA	, Augo	2505
	1019	16	4. 2 FOL	-231,784 LOWER USI	215.78	AL CRITERIA	INCREASE	D 50%.	10	19	05	4051	, May	27.05
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		PILE #					COMMENT	15						÷
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		A Tyce Int		ompany	PILE D			 	D	ATE: Sept. 28.05
PILE NUMBER	PILE LENGTH	DEPTH PREBORED	FINAL TOP ELEV.	FINAL TIP ELEV.	DES. CUTOFF ELEV.	ACT. CUTOFF	EATI PILE PLUMBNESS	 AL SI	ET	
	• PILE #		LOWER USI	ED, REFUS	AL CRITERIA	COMMENT		<u>新市市市</u> 第一市市 11111111111111111111111111111111111		

page#20f2

INSPECTOR:

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THE CITY OF WINNIPEG – WATER TREATM	1ENT	PLAN	√T – C	LEARWELL	pt 29.05
PILE PI ACT. DES. CU FINAL FINAL DEPTH DEPTH PILE	FIN	L AL S	I · ET	1	1.,
PILE PLUMBNESS ACT. CUTOFF ELEV. DES. CUTOFF ELEV. FINAL TIP ELEV. FINAL TOP ELEV. DEPTH PREBORED PILE LENGTH PILE NUMBER	1 ST SET	2 ND SET	3 RD SET	MAI	ACTURERS RKINGS E-DRIVEN
1014 16 4.2 230.724 214.724	20	16	14	4125	, Aug 25.0
9184 16 4.4	22	17	13	4155	
943 16 4.3 231.422 215.422 1	20	20	18	4155	
	21	19	12	4092	, Aug 29.05
1013 16 4.3 230.641 214.641	20	17	15	4091	
1015 16 4.3	23	22	22	4051	Aug 25,0
1025 16 4.4 230.950 214.950	23	20	21	NA	, D
1055 16 4.0 230.588 214.588	20	17	16	4095	/
1054 16 4.4 230.745 214.745	21	20	19	4109	Ave 30.05
1056 16 4,2	23	17	08	4093	Aug 29.05
FOLLOWER USED, REFUSAL CRITERIA INCREASED 50%.					
PILE# COMMENTS 7:35 Hammer Time Stand	dryp			1	(A)
	1	,		1	
		4			,
				2	, ,
A		<u></u>	<u>-C.s.</u> 1		
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			•		41
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				PAGE #	OFC
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	ÐE				PILE D	RIVING	S RE	COF	RDS	D	ATE: Sept.29.05
					NIPEG – V	ATER TH	REAT	MENT	PLAN	∛T – C	LEARWELL
PILE	PILE	DEPT	FINAL	FINAL	DES. (AC	PILE	FIN	I IAL S	ET	1
E NUMBER	LE LENGTH	DEPTH PREBORED	AL TOP ELEV.	AL TIP ELEV.	CUTOFF ELEV.	ACT. CUTOFF ELEV.	PLUMBNESS	1 ST SET	2 ND SET	3 RD SET	MANUFACTURERS MARKINGS R = RE-DRIVEN
1024	16	4.3	231,413	215.413			V	20	15	8	4093, Avera 4.05
1057	16	4.2					1	20	19	13	4095, Aug 30.05
1064	16	4.3					V	19	17	6	4107 "
1093	16	42					/	22	19	13	4081 Aug29.05
1063	16	4.2	231.363	215.362	2		1	20	n	15	4104 Aug 30. 05
1094	(6	4.2					\checkmark	21	19	10	4085, Augul9,05
986	16	4.3					\checkmark	23	19	A	4057, Aug 25.05
985	16	4.4	230.685	214.685			\checkmark	22	20	18	4050, "
987	16	4.8					1	23	191	1)	4051
1007	16	4.9						22	20	21	4044, Augad.05
	•	FOL	LOWER USE	D, REFUSA	L CRITERIA	INCREASE	D 50%.				/ 0

PILE #	COMMENTS	
W.		
5		

PAGE#ZOF 4

9) F	ar	thTe	∽h [D.	ATE:	1
e		A Tyco Int	ernational Ltd. C	ompany	PILE D						5.	ept. 29.05
			THE CITY	OF WINI	VIPEG – W	'ATER TI	REATI	MENT	PLAN	T - C	LEARWEL	Ľ
PILE	PI	DEP	Į.									
	PILE L	DEPTH PREBORED	FINAL TOP	FINAL TIP	DES. CUTOFF ELEV	ACT. CUTOFF ELEV.	PILE PLU					
NUMBER	ENGTH	EBO	OP ELEV	P ELEV)FF EJ	UTOF 3V.	PLUMBNESS	1 ST	2 ND	3 RD	M	UFACTURERS IARKINGS
ER	H	RED	EV.	EV.	LEV.	ц	ESS	SET	SET	SET	R =	RE-DRIVEN
1005	16	4.8					1	23	21.	20	4061	Aug 29.05
1006	14	4.6					\checkmark	23	22	21	4061	Aug 26.05
988	16	4.4					5	29	23	23	4090	, Aug 29.05
1050	16	4,2					5	24	24	24	4074	, Aug. 26.05
1004	16	4.2					1	23	22	22	4091	
989	16	4.7					J	24	23	24	NA	Aug. 29.05
1090	16	4.0					2%	20	15	(1	4070	Aug 26,65
1091	16	4.0	230.712	214.712				23	n	12	4076	11
1092	16	4.0					1	23	17	05	NA	11
1104	16	3.4	231.087	215.087			\checkmark	22	15	09	4071	1

FOLLOWER USED, REFUSAL CRITERIA INCREASED 50%.

PILE # COMMENTS

PAGE#30F4

		A Tyco Int		mpany		RIVING					ATE: Sept.29.05 LEARWELL
PILE NUMBER	PILE LENGTH	DEPTH PREBORED	FINAL TOP ELEV.	FINAL TIP ELEV.	DES. CUTOFF ELEV.	ACT. CUTOFF ELEV.	PILE PLUMBNESS		AL S	I	: MANUFACTURERS MARKINGS R = RE-DRIVEN
1103	16	3.2	231.335	215.335				21	16.	10	4077, Aug 26.05
1102		3.3	231.278	215.278				23	20	13	NA, "
1101	16	3.2	231.333	215.333				24	PI	67	4052, Aug 25.05
		FOL	LOWER USE	D, REFUSAL	CRITERIA	INCREASE	D 50%.				
	PILE #					COMMENT	<u>`S</u>				

PAGE # 4 OF 4

		T	HE CITY	OF WINN	IPEG – W	ATER TR	EAT	AENT	PLAN	T – CI	LEARWELL	
PI	PI	DEP	FINAL	FIN	DES.	A	PILE	FIN	AL S	ET	1	
PILE NUMBER	PILE LENGTH	DEPTH PREBORED	AL TOP ELEV.	FINAL TIP ELEV.	CUTOFF ELEV.	ACT. CUTOFF ELEV.	PLUMBNESS	1 ST SET	2 ND SET	3 RD SET	MA	FACTURERS RKINGS E-DRIVEN
1027	16	3.5					\checkmark	20	17.	15	NA	Aug25.05
10091	16	3,4			NS.		1	22	19	10	11	, ,
1010	16	3,2					\checkmark	19	19	15	4039	· · · /
1D[]	16	32					1	21	17	13	NA	۱۱
1052	16	3,0					V	19	16	14	4040	μ
1066		3,2	NO R	EFUS	AL		/	-	~	-	4058	, site
1053	16	33		$\{\hat{\boldsymbol{\theta}}_{j,w}^{(m)}\}$			1	21	17	15	4066,	v
1026	16	3,0			E	i.	1	20	18	13	4044	11
1.012	16	3.1		•			\checkmark	23	21	20	4049,	(1
(H)	16	3.2							16	1)	4065	Aug26.05
te i ar	,	FOL	LOWER USI	ED, REFUSA	L CRITERIA	A INCREASE	D 50%					
	PILE #	1				COMMEN	TS					<i>a</i>
												12 2
												$\mathcal{O}_{\mathcal{F}_{\mathcal{H}_i}}$
3					۳.				-			

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PILE DRIVING RECORDS

DATE: Sept. 30.05 THE CITY OF WINNIPEG - WATER TREATMENT PLANT - CLEARWELL

							_	1			A STATISTICS IN CONTRACTOR	
PII	PI	DEP	FIN.	FIN	DES.	A	PILE	FIN	AL SI	ET		
PILE NUMBER	PILE LENGTH	DEPTH PREBORED	FINAL TOP ELEV.	FINAL TIP ELEV.	DES. CUTOFF ELEV.	ACT. CUTOFF ELEV.	3 PLUMBNESS	1 ST SET	2 ND SET	3 RD SET	MANU	JFACTURERS ARKINGS RE-DRIVEN
1089	16	4.0						21	П.	14	NA,	Aug. 26.05
1065	16	4.2					1	20	11	16	4062,	Aug. 26.05 Aug26.05
1106	16	4.2					V	22	19	13	4068,	้า
1105	16	4.3	231.053	215.053			\checkmark	19	15	14	4067	V
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												in the second se
												£
	•	FOL	LOWER USE	CD, REFUSAL	CRITERIA	INCREASE	D 50%.					
	PILE #					COMMENT	rs					

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}	1		HE CITY	OF WINI	NIPFG - V	VATER TI	REAT	MENT	PLAN	T - C	LEARWEL	L
PILE	PILE	DEPT	FIN/	FINAL	DES.	AC	PILE	FIN	AL S	ET	1	
E NUMBER	LE LENGTH	DEPTH PREBORED	FINAL TOP ELEV.	AL TIP ELEV.	CUTOFF ELEV.	ACT. CUTOFF ELEV.	PLUMBNESS	1 st Set	2 ND SET	3 RD SET	M	JFACTURERS ARKINGS RE-DRIVEN
1008	16	4.0					V	21	17.	15	NA	
1067	16	4.0					1%	23	21	21	4040	Aug 25.09
1087	16	4.0					1	21	17	15	4043	<u>"</u>
1110	17	4.2					\checkmark	23	21	19	4197	June 06.05
1109	17	4.0					\checkmark	21	20	19	1192) I (¹⁴
110%	17	4.2						23	22	20	1191	۱ <i>۲</i> .
1107	17	4.0		м. - так на			V	23	20	19	NA	1
-1112	17	4.0					V	22	21	20	1194)
1084	Π	4.2				. x ^a	1		21	20		June 09.05
1111	17	4.0	0111777	D DEELIC (CDITEDIA			100000000000000000000000000000000000000	20	18	1190	June 03,05
2.80	•		OWER USE	D, KEFUSA	L CRITERIA							
- q; c	<u>pile#</u> 55 -	HAM	MER T	IME, 1	0:55 :	Stop to		epai	r,1	:40	HAMME	RTime
				,		•)		•				
							1					
									4			

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	QID) E				PILE D	RIVING	; RE	COF	RDS	D.	ATE: OCA	03.05
						IPEG – W	ATER TH	EAT	MENT	PLAN	T - C	LEARWELI	L.
	PILE	PILE	DEPTH	FINA	FINAL	DES. (AC	PILE	FIN	AL S	ET	ž.	
	E NUMBER	E LENGTH	H PREBORED	FINAL TOP ELEV.	AL TIP ELEV.	DES. CUTOFF ELEV.	ACT. CUTOFF ELEV.	PLUMBNESS	1 ST SET	2 ND SET	3 RD SET	M	JFACTURERS ARKINGS RE-DRIVEN
	1085	17	4.0					1	21	19	IG	1294	, June 0905
	10年	17	4.2					\checkmark	22	20	21	1196	June 09,05 June 03,05
	1028	17	4.2	-				\checkmark	23	21	19	1149	
	1050	17	4.0	£				\checkmark	24	23	21	1275	June 0 8,05
	067A	17	4.0					\checkmark	23	20	15	1173	, June 08,05 , June 04.05 , Jan. 14, NA
	1066A	18	3.2					/	24	23	23	18	Jan. 101, NA
	1051	17	4.0					V	23	21	19	NA	·
	1045	17	40					/	21	19	17	1178	, June 0405
	1082	n	4.2					/	23	22	Z	1278	, June 08.05
	1046	Π	4.2					/	23	22	22	1177	June 0205
大法	ė.	*	FOLI	LOWER USE	D, REFUSAL	, CRITERIA	INCREASE	D 50%.				÷	5' T X
)	PILE #		- 40-			COMMENT	S				2. 9	3 1 2
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-			-220100-004						ş.			Ň	· · ·
F							1 0.0				-	· .	
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							Sec. No.			a,		PAGE	#20F3
								, ,	s. 14	<u>Anna an</u>		* 14	<u> </u>

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) E	A Tyco Inter	hTeo	ompany	PILE D						ATE: CC	4.03.02
PII	PILE	<u>г т</u>			DES.		PILE	-	I IAL S	1	1	
PILE NUMBER	LE LENGTH	DEPTH PREBORED	FINAL TOP ELEV.	FINAL TIP ELEV.	CUTOFF ELEV.	ACT. CUTOFF ELEV.	PLUMBNESS	1 ST SET	2 ND SET	3 RD SET	M	JFACTURERS ARKINGS RE-DRIVEN
1047	17	4.0					1	23	21	20	1149	June 01,05
1029	17	4.2						21	19	15	1169	14
1048	17	4.3					1	23	21	20	1152	<i>1</i> 1
1068	17	42	.8				~	20	17	15	1296	June 09,05
1083	17	4.2		4			V	21	19	13	1176	, June od, 05
1115	П	4.0					~	20	20	17	1153	, June 02,05 , June 01,05
144	17	4.1					1	21	21	21	1158	
1123	17	40		2			\checkmark	22	20	23	NA	
ind size							- ^{- 1}				11. 11.	
<i>)</i> .											4 1	
1	• PILE#	FOLL	OWER USE	D, REFUSA	L CRITERIA	INCREASE					· · · · ·	7
										Ϋ.	i Thurson	
								+	•			· · · · · · · · · · · · · · · · · · ·
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INSPECTOR:

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) E				PILE D	RIVING	RE	COF	RDS	D.	ATE: 0cf.04.05
					NIPEG – W	ATER TH	REATI	MENT	PLAN	T - C	LEARWELL
PILE	PILE	DEP	FIN,	FIN	DES.	A	PILE	FIN	AL S	ET	1
		TH PRI	AL TOI	FINAL TIP ELEV	CUTO	ACT. CUTOFF ELEV.	100 m				MANUFACTURERS
NUMBER	LENGTH	DEPTH PREBORED	FINAL TOP ELEV.	ELEV.	DES. CUTOFF ELEV.	TOFF 7.	PLUMBNESS	1 st set	2 ND SET	3 RD SET	MARKINGS R = RE-DRIVEN
1070	17	3,2					V	21	20.	18	1172
1110	lı.	9					1	20	19	17	1154
1080	n	3,3					1	24	23	22	1252
1069	ıt	3.2					1'5%	23	22	22	1151
1081	u	3,3					2%	21	19	19	NA
1071	łt	3,2					13/4%	22	20	17	1272
1077	ų	4					13/4%	22	20	107	1133
1078	x	η					~	ええ	101	15	1174
1178	"(4					/	23	21	17	1171
1118	4	h	•		ODITEDIA		V	21	20	19	1173

FOLLOWER USED, REFUSAL CRITERIA INCREASED 50%.

7:40 HAMMER TIME, 3:00 Clear Well Piling Completed.

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) E				PILE D	RIVINO	G RE	COF	RDS	D.	ATE: Ø	ct.04.05
					NNIPEG – V	VATER TI	REATI	MENT	PLAN	T - C	LEARWE	LL
PILE	PILE	DEPT	FINAL	FINAL	DES. (AC	PILE	FIN	AL S	ET	i.	
E NUMBER	LE LENGTH	DEPTH PREBORED	AL TOP ELEV.	AL TIP ELEV.	DES. CUTOFF ELEV.	ACT. CUTOFF ELEV.	PLUMBNESS	1 ST SET	SET	3 RD SET	N	UFACTURERS AARKINGS RE-DRIVEN
1117	17	3.2					×	23	22	19	NA	June 08.05
1073	n	n					22	22	20	19	1156	
1072	۰,						1	20	17	13	1271	May 31.05
1075	'n	33	-				\checkmark	17	12	05	1130.	June 04.05 May 31.05
1076	h	3.2						23	19	69	1(7)	May 31.05
1120	'n	- 11					V	21	17	12	1137	11
1119	n	n						17	15	10	1129	п
1122	n	n					15%	18	16	13	1136)
1674	n	3.3					2%	19	15	(1	1134	0
1121 " "								21	17	10	1132) \
	• PILE #		LOWER USE	D, REFUS	AL CRITERIA	INCREASE COMMEN						,

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