Jon Niermann, *Chairman*Emily Lindley, *Commissioner*Bobby Janecka, *Commissioner*Toby Baker, *Executive Director*



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

March 17, 2022

Ms. Lindi Weber Peloton Land Solutions 9800 Hillwood Parkway, Suite 250 Fort Worth, TX 76177 VIA E-MAIL

RE: Independence Water, L.P. and HW 2421 Land, L.P.

WRPERM 13823

CN605961523, CN605961556, RN111383410 Application No. 13823 for a Water Use Permit

Texas Water Code § 11.143, Requiring Published and Limited Mailed Notice

Unnamed tributary of Marshall Branch, Trinity River Basin

Tarrant County

Dear Ms. Weber:

This acknowledges receipt, on February 16, 2022, of additional information.

The application was declared administratively complete and filed with the Office of the Chief Clerk on March 17, 2022. Staff will continue processing the application for consideration by the Executive Director.

Please be advised that additional information may be requested during the technical review phase of the application process.

If you have any questions concerning this matter, please contact me via email at sam.sewell@tceq.texas.gov or by telephone at (512) 239-4008.

Sincerely,

Sam Sewell

Sam Sewell, Project Manager Water Rights Permitting Team Water Rights Permitting and Availability Section

TCEQ Interoffice Memorandum

TO: Office of the Chief Clerk

Texas Commission on Environmental Quality

THRU: Chris Kozlowski, Team Leader

Water Rights Permitting Team

FROM: Sam Sewell, Project Manager

Water Rights Permitting Team

DATE: March 17, 2022

SUBJECT: Independence Water, L.P. and HW 2421 Land, L.P.

WRPERM 13823

CN605961523, CN605961556, RN111383410 Application No. 13823 for a Water Use Permit

Texas Water Code § 11.143, Requiring Limited Mailed Notice Unnamed tributary of Marshall Branch, Trinity River Basin

Tarrant County

The application was received on December 6, 2021. Additional information and fees were received on January 24, and 31, 2022 and February 16, 2022. The application was declared administratively complete and accepted for filing with the Office of the Chief Clerk on March 17, 2022. Published notice pursuant to Title 30 Texas Administrative Code (TAC) §§ 295.152(b) mailed notice to downstream water right holders of record in the Trinity River Basin pursuant to Title 30 Texas Administrative Code (TAC) §§ 295.153(c)(1) and 295.161(a). Mailed notice to the Northern Trinity Groundwater Conservation District is required pursuant to Title 30 TAC § 295.153(c)(2) and mailed notice to the Texas Parks and Wildlife Department and the Public Interest Counsel is required pursuant to Title 30 TAC § 295.161(c).

All fees have been paid and the application is sufficient for filing.

Sam Sewell Project Manager

Sam Sewell, Project Manager Water Rights Permitting Team

Water Rights Permitting and Availability Section

Dove Pond (Golf Course Pond) Water Accounting Record Annual Tab

Year	

Month	Diversion Volume (ac-ft)	Groundwater Volume (ac-ft)	Default Evaporation (ac-ft)	Calculated Net Inflow (ac-ft)	Depleted Net Inflow (ac-ft)	Supplemental Groundwater Release (ac-ft)
January	0.00	0.00	1.24	1.24	1.24	1.24
February	0.00	0.00	1.68	1.68	1.68	1.68
March	0.00	0.00	2.48	2.48	2.48	2.48
April	0.00	0.00	3.30	3.30	3.30	3.30
May	0.00	0.00	3.72	3.72	3.72	3.72
June	0.00	0.00	4.50	4.50	4.50	4.50
July	0.00	0.00	5.27	5.27	5.27	5.27
August	0.00	0.00	4.65	4.65	4.65	4.65
September	0.00	0.00	3.60	3.60	3.60	3.60
October	0.00	0.00	2.79	2.79	2.79	2.79
November	0.00	0.00	1.80	1.80	1.80	1.80
December	0.00	0.00	1.24	1.24	1.24	1.24
Total	0.00	0.00	36.27	36.27	36.27	36.27

	Α	В	С	D	Е	F	G	Н	ı	J	K	L
1							nd (Golf Course Pond)					
2 3 4 5 6							Accounting Record					
3						Janu	ary - Monthly Tab					
5											Signed:	
6		La	ke Surface Area (acres)	4.80							Date:	
7			Pan Factor	0.73								
8												
		Diversion Volume	Groundwater Volume	Default Evaporation	Default Evaporation	Dofault Evaporation	Calculated Net Inflow	Depleted Net Inflow	Supplemental			
	Day	(gal)	(gal)	Rate	(ac-ft)	(gal)	(gal)	(gal)	Groundwater Release	Comments		
9		(84.7	(84.)	(in)					(gal)			
10	1			0.11	0.04	13,034	13,034	13,034				
11 12	2			0.11 0.11	0.04 0.04	13,034 13.034	13,034 13.034	13,034 13.034				
13	4			0.11	0.04	13,034	13,034	13,034				
14	5			0.11	0.04	13,034	13,034	13,034				
15	6			0.11	0.04	13.034	13.034	13,034				
16	7			0.11	0.04	13.034	13,034	13.034				
17	8			0.11	0.04	13,034	13,034	13,034				
18	9			0.11	0.04	13,034	13,034	13,034				
19	10			0.11	0.04	13,034	13,034	13,034				
20	11			0.11	0.04	13,034	13,034	13,034				
21	12			0.11	0.04	13,034	13,034	13,034				
22	13			0.11	0.04	13,034	13,034	13,034				
23	14			0.11	0.04	13,034 13.034	13,034 13.034	13,034	182,476			
25	15 16			0.11 0.11	0.04 0.04	13,034	13,034	13,034 13.034				
26	17			0.11	0.04	13,034	13,034	13,034				
27	18			0.11	0.04	13,034	13,034	13,034				
28	19			0.11	0.04	13,034	13,034	13,034				
29	20			0.11	0.04	13,034	13,034	13,034			1	
30	21			0.11	0.04	13,034	13,034	13,034				
31	22			0.11	0.04	13,034	13,034	13,034				
32	23			0.11	0.04	13,034	13,034	13,034				
33	24			0.11	0.04	13,034	13,034	13,034				
34	25			0.11	0.04	13,034	13,034	13,034				
35	26			0.11	0.04	13,034	13,034	13,034				
36 37	27		.	0.11	0.04	13,034	13,034	13,034	400.470			
38	28 29			0.11 0.11	0.04 0.04	13,034 13.034	13,034 13.034	13,034 13.034	182,476			
39	30			0.11	0.04	13,034	13,034	13,034				
40	31			0.11	0.04	13,034	13,034	13,034	39,102			
41	Total (ac-ft)	0.00	0.00	1.36	1.24	1.24	1.24	1.24	1.24			
42	Total (gal)	0	0	444,461	404,055	404,054	404,054	404,054	404,054			

	Α	В	С	D	Е	F	G	Н	1	J
1	-		•			Dove Por	nd (Golf Course Pond)			
2							Accounting Record			
3						Febru	uary - Monthly Tab			
4										
5										
6		La	ake Surface Area (acres)	4.80						
7			Pan Factor	0.70						
8										
	_	Diversion Volume	Groundwater Volume	Default Evaporation	Default Evaporation	Default Evaporation	Calculated Net Inflow	Depleted Net Inflow	Supplemental	
	Day	(gal)	(gal)	Rate	(ac-ft)	(gal)	(gal)	(gal)	Groundwater Release	Comments
9		(9)	(3)	(in)	, ,				(gal)	
10	1			0.15	0.06	19,551	19,551	19,551		
11	2			0.15	0.06	19,551	19,551	19,551		
12	3			0.15	0.06	19,551	19,551	19,551		
13	4			0.15	0.06	19,551	19,551	19,551		
14	5			0.15	0.06	19,551	19,551	19,551		
15	6			0.15	0.06	19,551	19,551	19,551		
16	7			0.15	0.06	19,551	19,551	19,551		
17	8			0.15	0.06	19,551	19,551	19,551		
18 19	9 10			0.15 0.15	0.06 0.06	19,551 19,551	19,551 19.551	19,551 19.551		
20	10			0.15	0.06	19,551	19,551	19,551		
21	12			0.15	0.06	19,551	19,551	19,551		
22	13			0.15	0.06	19,551	19,551	19,551		
23	14			0.15	0.06	19,551	19,551	19,551	273,714	
24	15			0.15	0.06	19,551	19,551	19,551	210,114	
25	16			0.15	0.06	19,551	19,551	19,551		
26	17			0.15	0.06	19,551	19,551	19,551		
27	18			0.15	0.06	19,551	19,551	19,551		-
28	19			0.15	0.06	19,551	19,551	19,551		
29	20			0.15	0.06	19,551	19,551	19,551		
30	21			0.15	0.06	19,551	19,551	19,551		
31	22			0.15	0.06	19,551	19,551	19,551		
32	23			0.15	0.06	19,551	19,551	19,551		
33	24			0.15	0.06	19,551	19,551	19,551		
34	25			0.15	0.06	19,551	19,551	19,551		
35	26			0.15	0.06	19,551	19,551	19,551		
36	27			0.15	0.06	19,551	19,551	19,551		
37	28			0.15	0.06	19,551	19,551	19,551	273,714	

П	Α	В	С	D	E	F	G	Н	1	J	K	L
1							nd (Golf Course Pond)					
2 3 4 5 6 7						Water	Accounting Record ch - Monthly Tab					
3						Mar	cn - Monthly Tab					
5											Signed:	
6		La	ake Surface Area (acres)	4.80							Date:	
7			Pan Factor	0.69							Date.	
8												
		Diversion Volume	Construction Values	Default Evaporation	Defeult Francisco	Defects Francisco	Calculated Net Inflow	Depleted Net Inflow	Supplemental			
	Day		Groundwater Volume	Rate	Default Evaporation (ac-ft)	(gal)			Groundwater Release	Comments		
9		(gal)	(gal)	(in)	, ,		(gal)	(gal)	(gal)			
10	1			0.21	0.08	26,068	26,068	26,068				
11	2			0.21	0.08	26,068	26,068	26,068				
12	3			0.21	0.08	26,068	26,068	26,068				
13	4			0.21	0.08	26,068	26,068	26,068				
14	5 6			0.21 0.21	0.08	26,068 26,068	26,068 26,068	26,068 26,068				
15 16	7			0.21	0.08	26,068	26,068	26,068	182,476			
17	8			0.21	0.08	26,068	26,068	26,068	102,470			
18	9			0.21	0.08	26,068	26,068	26,068				
19	10			0.21	0.08	26,068	26,068	26,068				
20	11			0.21	0.08	26,068	26,068	26,068				
21	12			0.21	0.08	26,068	26,068	26,068				
22	13			0.21	0.08	26,068	26,068	26,068				
23	14			0.21	0.08	26,068	26,068	26,068	182,476			
24	15			0.21	0.08	26,068	26,068	26,068				
25	16			0.21	0.08	26,068	26,068	26,068				
26	17			0.21	0.08	26,068	26,068	26,068				
27	18			0.21	0.08	26,068	26,068	26,068				
28	19			0.21	0.08	26,068	26,068	26,068				
30	20 21		-	0.21 0.21	0.08	26,068 26,068	26,068 26,068	26,068 26,068	182.476			
31	22			0.21	0.08	26,068	26,068	26,068	102,470			
32	23			0.21	0.08	26,068	26,068	26,068			1	
33	24		<u> </u>	0.21	0.08	26,068	26,068	26,068			1	
34	25			0.21	0.08	26,068	26.068	26,068				
35	26			0.21	0.08	26,068	26,068	26,068				
36	27			0.21	0.08	26,068	26,068	26,068				
37	28			0.21	0.08	26,068	26,068	26,068	182,476			
38	29			0.21	0.08	26,068	26,068	26,068				
39	30			0.21	0.08	26,068	26,068	26,068				
40	31			0.21	0.08	26,068	26,068	26,068	78,204			
41	Total (ac-ft)	0.00	0.00	2.60	2.48	2.48	2.48	2.48	2.48			
42	Total (gal)	0	0	848,516	808,110	808,108	808,108	808,108	808,108			

	A	В	С	D	E	F	G	Н	ı	J	K	L
1							nd (Golf Course Pond)					
2 3 4 5 6 7						Water	Accounting Record					
3						Apı	ril - Monthly Tab					
4												
5											Signed	
6		Li	ake Surface Area (acres)								Date	
/			Pan Factor	0.67								
٥											1	
		Diversion Volume	Groundwater Volume	Default Evaporation	Default Evaporation	Default Evaporation	Calculated Net Inflow	Depleted Net Inflow	Supplemental			
	Day	(gal)	(gal)	Rate	(ac-ft)	(gal)	(gal)	(gal)	Groundwater Release	Comments		
9	,	,	(0)	(in)					(gal)			
10	1 2			0.27 0.27	0.11 0.11	35,844 35,844	35,844 35,844	35,844 35,844			-	
12	3			0.27	0.11	35,844	35,844	35,844				
13	4			0.27	0.11	35,844	35,844	35,844			1	
14	5			0.27	0.11	35,844	35,844	35,844			1	
15	6			0.27	0.11	35,844	35,844	35,844				
16	7			0.27	0.11	35,844	35,844	35,844	250,908			
17	8			0.27	0.11	35,844	35,844	35,844				
18	9			0.27	0.11	35,844	35,844	35,844				
19	10			0.27	0.11	35,844	35,844	35,844				
20	11			0.27	0.11	35,844	35,844	35,844				
21	12			0.27	0.11	35,844	35,844	35,844				
22	13			0.27	0.11	35,844	35,844	35,844				
23	14			0.27	0.11	35,844	35,844	35,844	250,908			
24	15			0.27	0.11	35,844	35,844	35,844				
25	16			0.27	0.11	35,844	35,844	35,844				
26	17			0.27	0.11	35,844	35,844	35,844				
27	18			0.27 0.27	0.11	35,844	35,844	35,844			1	
28	19 20			0.27	0.11 0.11	35,844 35.844	35,844 35,844	35,844 35,844			4	
30	20		 	0.27	0.11	35,844	35,844	35,844 35,844	250,908		-	
31	22			0.27	0.11	35,844	35,844	35,844	200,900		1	
32	23		1	0.27	0.11	35,844	35,844	35,844			1	
33	24		1	0.27	0.11	35,844	35,844	35,844			1	
34	25		1	0.27	0.11	35,844	35,844	35,844			1	
35	26			0.27	0.11	35,844	35,844	35.844			1	
36	27			0.27	0.11	35,844	35,844	35,844			1	
37	28			0.27	0.11	35,844	35,844	35,844	250,908			
38	29			0.27	0.11	35,844	35,844	35,844				
39	30			0.27	0.11	35,844	35,844	35,844	71,688			
40												
41	Total (ac-ft)	0.00	0.00	3.24	3.30	3.30	3.30	3.30	3.30		1	
42	Total (gal)	0	0	1,055,757	1,075,308	1,075,320	1,075,320	1,075,320	1,075,320			

П	Α	В	С	D	E	F	G	Н	ı	J	K	L
1							nd (Golf Course Pond)					
2 3 4 5 6 7						Water	Accounting Record					
3						Ma	y - Monthly Tab					
4											Signed	
6		1.4	ake Surface Area (acres)	4.80							Date	
7		L	Pan Factor								Date	
8			1 4111 40101	0.00								
				Default Evaporation					Supplemental		1	
	Day	Diversion Volume	Groundwater Volume	Rate	Default Evaporation	Default Evaporation	Calculated Net Inflow		Groundwater Release	Comments		
9		(gal)	(gal)	(in)	(ac-ft)	(gal)	(gal)	(gal)	(gal)			
10	1			0.29	0.12	39,102	39,102	39,102	(0): /			
11	2			0.29	0.12	39,102	39,102	39,102				
12	3			0.29	0.12	39,102	39,102	39,102				
13	4			0.29	0.12	39,102	39,102	39,102				
14	5			0.29	0.12	39,102	39,102	39,102			1	
15	6			0.29	0.12	39,102	39,102	39,102				
16	7			0.29	0.12	39,102	39,102	39,102	273,714			
17	8 9			0.29 0.29	0.12 0.12	39,102 39,102	39,102 39,102	39,102 39,102				
18 19	10			0.29	0.12	39,102	39,102	39,102			4	
20	11			0.29	0.12	39,102	39,102	39,102				
21	12			0.29	0.12	39,102	39,102	39,102				
22	13			0.29	0.12	39,102	39,102	39,102				
23	14			0.29	0.12	39,102	39,102	39,102	273,714			
24	15			0.29	0.12	39,102	39,102	39,102				
25	16			0.29	0.12	39,102	39,102	39,102				
26	17			0.29	0.12	39,102	39,102	39,102				
27	18			0.29	0.12	39,102	39,102	39,102				
28	19			0.29	0.12	39,102	39,102	39,102			4	
29	20			0.29	0.12	39,102	39,102	39,102	070.744		1	
30	21 22		 	0.29 0.29	0.12 0.12	39,102 39.102	39,102 39.102	39,102 39,102	273,714		4	
32	23			0.29	0.12	39,102	39,102	39,102				
33	24		1	0.29	0.12	39,102	39,102	39,102			1	
34	25			0.29	0.12	39,102	39,102	39,102				
35	26			0.29	0.12	39,102	39,102	39,102				
36	27		1	0.29	0.12	39,102	39,102	39,102			1	
37	28			0.29	0.12	39,102	39,102	39,102	273,714			
38	29			0.29	0.12	39,102	39,102	39,102		•		
39	30			0.29	0.12	39,102	39,102	39,102			1	
40	31			0.29	0.12	39,102	39,102	39,102	117,306		1	
41	Total (ac-ft)	0.00	0.00	3.60	3.72	3.72	3.72	3.72	3.72		4	
42	Total (gal)	0	0	1,171,760	1,212,166	1,212,162	1,212,162	1,212,162	1,212,162			

	Α	В	С	D	Е	F	G	Н	I	J	K	L
1							nd (Golf Course Pond)					
2 3 4 5 6							Accounting Record ne - Monthly Tab					
4						Jui	ie - Monthly Lab					
5											Signed:	
6		La	ake Surface Area (acres)	4.80							Date:	
7			Pan Factor	0.67								
8											-	
	_	Diversion Volume	Groundwater Volume	Default Evaporation	Default Evaporation	Default Evaporation	Calculated Net Inflow	Depleted Net Inflow	Supplemental			
	Day	(gal)	(gal)	Rate	(ac-ft)	(gal)	(gal)	(gal)	Groundwater Release	Comments		
10	1	15 1	1= 1	(in) 0.37	0.15	48.878	48.878	48.878	(gal)			
11	2			0.37	0.15	48,878	48,878	48,878				
12	3			0.37	0.15	48.878	48.878	48.878			1	
13	4			0.37	0.15	48,878	48,878	48,878				
14	5			0.37	0.15	48,878	48,878	48,878				
15	6			0.37	0.15	48,878	48,878	48,878				
16	7			0.37	0.15	48,878	48,878	48,878	342,146			
17	8			0.37	0.15	48,878	48,878	48,878				
18	9			0.37	0.15	48,878	48,878	48,878				
19 20	10 11			0.37 0.37	0.15 0.15	48,878 48,878	48,878 48.878	48,878 48.878			_	
21	12			0.37	0.15	48,878	48,878	48,878				
22	13			0.37	0.15	48.878	48.878	48.878				
23	14			0.37	0.15	48,878	48,878	48,878	342,146			
24	15			0.37	0.15	48,878	48,878	48,878				
25	16			0.37	0.15	48,878	48,878	48,878				
26	17			0.37	0.15	48,878	48,878	48,878				
27	18			0.37	0.15	48,878	48,878	48,878				
28	19			0.37	0.15	48,878	48,878	48,878				
30	20 21			0.37 0.37	0.15 0.15	48,878 48,878	48,878 48.878	48,878 48.878	342,146		4	
31	22			0.37	0.15	48,878	48,878	48,878	342,140		1	
32	23			0.37	0.15	48,878	48.878	48.878			1	
33	24			0.37	0.15	48,878	48,878	48,878			1	
34	25			0.37	0.15	48,878	48,878	48,878			1	
35	26			0.37	0.15	48,878	48,878	48,878				
36	27			0.37	0.15	48,878	48,878	48,878			1	
37	28			0.37	0.15	48,878	48,878	48,878	342,146]	
38	29			0.37	0.15	48,878	48,878	48,878	07.750		4	
39	30			0.37	0.15	48,878	48,878	48,878	97,756		1	
40	Total (ac-ft)	0.00	0.00	4.44	4.50	4.50	4.50	4.50	4.50		1	
42	Total (ac-nt)	0.00	0.00	1.446.778	1.466.330	1.466.340	1.466.340	1.466.340	1.466.340		1	
42	ı olai (yai)	U	U	1,440,770	1,400,330	1,400,340	1,400,340	1,400,340	1,400,340		I	

	Α	В	С	D	E	F	G	Н	1 1	J	K	L
1		•					nd (Golf Course Pond)				•	•
2 3 4 5 6 7							Accounting Record					
3						Jul	ly - Monthly Tab					
4												
5											Signed	
6		La	ake Surface Area (acres)								Date	·
7			Pan Factor	0.69								
8		ı		ı								
		Diversion Volume	Groundwater Volume	Default Evaporation	Default Evaporation	Default Evaporation	Calculated Net Inflow	Depleted Net Inflow	Supplemental			
	Day	(gal)	(gal)	Rate	(ac-ft)	(gal)	(gal)	(gal)	Groundwater Release	Comments		
9		(94.)	(94.)	(in)					(gal)			
10	11			0.42	0.17	55,395	55,395	55,395				
11	2		ļ	0.42	0.17	55,395	55,395	55,395			4	
12	3		1	0.42	0.17	55,395	55,395	55,395			4	
13	4			0.42 0.42	0.17 0.17	55,395	55,395	55,395			4	
15	5 6		 	0.42	0.17	55,395 55,395	55,395 55,395	55,395 55,395			1	
16	7			0.42	0.17	55,395	55,395	55,395	387,765			
17	8			0.42	0.17	55,395	55,395	55,395	367,765			
18	9			0.42	0.17	55,395	55,395	55,395			1	
19	10			0.42	0.17	55,395	55,395	55,395				
20	11			0.42	0.17	55,395	55,395	55,395				
21	12			0.42	0.17	55,395	55,395	55,395			1	
22	13			0.42	0.17	55,395	55,395	55,395				
23	14			0.42	0.17	55,395	55,395	55,395	387,765			
24	15			0.42	0.17	55,395	55,395	55,395			1	
25	16			0.42	0.17	55,395	55,395	55,395				
26	17			0.42	0.17	55,395	55,395	55,395				
27	18			0.42	0.17	55,395	55,395	55,395				
28	19			0.42	0.17	55,395	55,395	55,395				
29	20			0.42	0.17	55,395	55,395	55,395			1	
30	21			0.42	0.17	55,395	55,395	55,395	387,765		1	
31	22			0.42	0.17	55,395	55,395	55,395			1	
32	23			0.42	0.17	55,395	55,395	55,395			4	
33	24			0.42	0.17	55,395	55,395	55,395			4	
34	25 26			0.42 0.42	0.17	55,395	55,395	55,395			4	
35 36	26 27		1	0.42	0.17 0.17	55,395 55,395	55,395 55,395	55,395 55,395			1	
36	28			0.42	0.17	55,395	55,395	55,395	387,765		1	
38	29		1	0.42	0.17	55,395	55,395	55,395	301,700		1	
39	30			0.42	0.17	55,395	55,395	55,395			1	
40	31		1	0.42	0.17	55,395	55,395	55,395	166.185		1	
41	Total (ac-ft)	0.00	0.00	5.21	5.27	5.27	5.27	5.27	5.27		1	
42	Total (gal)	0.00	0.00	1.697.032	1,717,235	1.717.245	1,717,245	1,717,245	1.717.245		1	

	Α	В	С	D	Е	F	G	Н	I	J	K	L
1							nd (Golf Course Pond)					
2							Accounting Record					
3 4 5						Aug	ust - Monthly Tab					
5											Signed:	
6		La	ake Surface Area (acres)	4.80							Date:	
7			Pan Factor	0.7								
8												
		Diversion Volume	Groundwater Volume	Default Evaporation	Default Evaporation	Default Evaporation	Calculated Net Inflow	Depleted Net Inflow	Supplemental			
	Day	(gal)	(gal)	Rate	(ac-ft)	(gal)	(gal)	(gal)	Groundwater Release	Comments		
10	4	(3.)	(0.7	(in) 0.38	0.15	48.878	48.878	48.878	(gal)			
11	2			0.38	0.15	48,878	48,878	48,878				
12	3			0.38	0.15	48,878	48.878	48.878			f	
13	4			0.38	0.15	48,878	48,878	48,878			1	
14	5			0.38	0.15	48,878	48,878	48,878			1	
15	6			0.38	0.15	48,878	48,878	48,878				
16	7			0.38	0.15	48,878	48,878	48,878	342,146			
17	8			0.38	0.15	48,878	48,878	48,878				
18	9			0.38	0.15	48,878	48,878	48,878				
19 20	10			0.38 0.38	0.15 0.15	48,878 48,878	48,878 48.878	48,878 48.878				
21	11 12			0.38	0.15	48,878	48,878	48,878				
22	13			0.38	0.15	48,878	48.878	48.878				
23	14			0.38	0.15	48,878	48,878	48.878	342,146			
24	15			0.38	0.15	48,878	48,878	48,878				
25	16			0.38	0.15	48,878	48,878	48,878				
26	17			0.38	0.15	48,878	48,878	48,878				
27	18			0.38	0.15	48,878	48,878	48,878				
28	19			0.38	0.15	48,878	48,878	48,878			1	
30	20 21			0.38 0.38	0.15 0.15	48,878 48,878	48,878 48.878	48,878 48.878	342.146		1	
31	22			0.38	0.15	48,878	48,878	48.878	J4Z, 140			
32	23			0.38	0.15	48,878	48,878	48.878			1	
33	24			0.38	0.15	48,878	48,878	48,878				
34	25			0.38	0.15	48,878	48,878	48,878				
35	26			0.38	0.15	48,878	48,878	48,878]	
36	27			0.38	0.15	48,878	48,878	48,878				
37	28			0.38	0.15	48,878	48,878	48,878	342,146		4	
38	29 30			0.38 0.38	0.15 0.15	48,878 48,878	48,878 48,878	48,878 48.878			4	
39 40	30		 	0.38	0.15	48,878	48,878 48,878	48,878 48.878	146,634		1	
41	Total (ac-ft)	0.00	0.00	4.71	4.65	46,676	46,676	46,676	4.65			
42	Total (gal)	0.00	0.00	1,535,410	1,515,207	1,515,218	1.515.218	1,515,218	1.515.218		1	

П	Α	В	С	D	E	F	G	Н	I	J	K	L
1							nd (Golf Course Pond)					
2 3 4 5 6 7						Water	Accounting Record					
3						Septer	mber - Monthly Tab					
- 4											Signed:	
6		La	ke Surface Area (acres)	4.80							Date:	
7			Pan Factor	0.73							Duic.	
8				****								
				Default Evaporation					Supplemental		Ī	
	Day	Diversion Volume	Groundwater Volume	Rate	Default Evaporation				Groundwater Release	Comments		
9	•	(gal)	(gal)	(in)	(ac-ft)	(gal)	(gal)	(gal)	(gal)			
10	1			0.30	0.12	39,102	39,102	39,102				
11	2			0.30	0.12	39,102	39,102	39,102				
12	3			0.30	0.12	39,102	39,102	39,102				
13	4			0.30	0.12	39,102	39,102	39,102				
14	5			0.30	0.12	39,102	39,102	39,102				
15	6			0.30	0.12	39,102	39,102	39,102				
16	7			0.30	0.12	39,102	39,102 39,102	39,102	273,714			
17 18	8 9			0.30	0.12 0.12	39,102 39,102	39,102 39.102	39,102 39,102				
19	10			0.30	0.12	39,102	39,102	39,102				
20	11			0.30	0.12	39,102	39,102	39,102				
21	12			0.30	0.12	39,102	39,102	39,102				
22	13			0.30	0.12	39,102	39,102	39,102				
23	14			0.30	0.12	39,102	39,102	39,102	273,714			
24	15			0.30	0.12	39,102	39,102	39,102			1	
25	16			0.30	0.12	39,102	39,102	39,102				
26	17			0.30	0.12	39,102	39,102	39,102				
27	18			0.30	0.12	39,102	39,102	39,102			1	
28	19		ļ	0.30	0.12	39,102	39,102	39,102				
29	20		-	0.30	0.12	39,102	39,102	39,102	070.744		4	
30	21 22			0.30 0.30	0.12 0.12	39,102 39,102	39,102 39,102	39,102 39,102	273,714			
32	23		-	0.30	0.12	39,102	39,102 39,102	39,102			1	
33	24		 	0.30	0.12	39,102	39,102	39,102			1	
34	25			0.30	0.12	39,102	39,102	39,102			1	
35	26			0.30	0.12	39,102	39,102	39,102			1	
36	27			0.30	0.12	39,102	39,102	39,102			1	
37	28			0.30	0.12	39,102	39,102	39,102	273,714		1	
38	29			0.30	0.12	39,102	39,102	39,102				
39	30			0.30	0.12	39,102	39,102	39,102	78,204			
40											1	
41	Total (ac-ft)	0.00	0.00	3.60	3.60	3.60	3.60	3.60	3.60		1	
42	Total (gal)	0	0	1,173,064	1,173,064	1,173,060	1,173,060	1,173,060	1,173,060			

П	Α	В	С	D	Е	F	G	Н	I	J	К	L
1							nd (Golf Course Pond)					
2 3 4 5 6							Accounting Record					
3						Octo	ber - Monthly Tab					
5											Signed:	
6		La	ake Surface Area (acres)	4.80							Date:	
7			Pan Factor	0.77								
8											_	
		Diversion Volume	Groundwater Volume	Default Evaporation	Default Evaporation	Dofault Evaporation	Calculated Net Inflow	Depleted Net Inflow	Supplemental			
	Day	(gal)	(gal)	Rate	(ac-ft)	(gal)	(gal)	(gal)	Groundwater Release	Comments		
9		(941)	(gui)	(in)					(gal)			
10	1			0.22	0.09	29,327	29,327	29,327				
11	2			0.22	0.09	29,327	29,327	29,327			4	
12	3			0.22 0.22	0.09	29,327 29,327	29,327 29,327	29,327 29,327				
14	5			0.22	0.09	29,327	29,327	29,327			1	
15	6			0.22	0.09	29,327	29,327	29,327				
16	7			0.22	0.09	29,327	29,327	29,327	205,289			
17	8			0.22	0.09	29,327	29,327	29,327				
18	9			0.22	0.09	29,327	29,327	29,327				
19	10			0.22	0.09	29,327	29,327	29,327				
20	11			0.22	0.09	29,327	29,327	29,327				
21	12			0.22	0.09	29,327	29,327	29,327				
22	13			0.22	0.09	29,327	29,327	29,327				
23	14 15			0.22 0.22	0.09	29,327 29,327	29,327 29,327	29,327 29,327	205,289			
25	15 16			0.22	0.09	29,327	29,327	29,327				
26	17			0.22	0.09	29,327	29,327	29,327				
27	18			0.22	0.09	29,327	29.327	29.327				
28	19			0.22	0.09	29,327	29,327	29,327			1	
29	20			0.22	0.09	29,327	29,327	29,327				
30	21			0.22	0.09	29,327	29,327	29,327	205,289			
31	22			0.22	0.09	29,327	29,327	29,327]	
32	23			0.22	0.09	29,327	29,327	29,327				
33	24			0.22	0.09	29,327	29,327	29,327			1	
34	25		ļ	0.22	0.09	29,327	29,327	29,327			4	
35 36	26 27			0.22 0.22	0.09	29,327 29,327	29,327 29,327	29,327 29,327				
36	28		 	0.22	0.09	29,327	29,327	29,327	205,289		1	
38	29			0.22	0.09	29,327	29,327	29,327	200,209			
39	30		†	0.22	0.09	29,327	29,327	29,327			1	
40	31			0.22	0.09	29,327	29,327	29,327	87,981		1	
41	Total (ac-ft)	0.00	0.00	2.73	2.79	2.79	2.79	2.79	2.79		1	
42	Total (gal)	0	0	888,922	909,124	909,137	909,137	909,137	909,137			

П	Α	В	С	D	E	F	G	Н	I	J	K	L
1							nd (Golf Course Pond)					
2 3 4 5 6 7							Accounting Record					
3						Nover	nber - Monthly Tab					
5											Signed:	
6		La	ake Surface Area (acres)	4.80							Date:	
7		2.	Pan Factor	0.8							Dato.	
8												
		Diversion Volume	Groundwater Volume	Default Evaporation	Defects Francisco	Defects Francisco	Calculated Net Inflow	Depleted Net Inflow	Supplemental			
	Day			Rate	Default Evaporation (ac-ft)				Groundwater Release	Comments		
9		(gal)	(gal)	(in)	, ,	(gal)	(gal)	(gal)	(gal)			
10	1			0.15	0.06	19,551	19,551	19,551				
11	2			0.15	0.06	19,551	19,551	19,551				
12	3			0.15	0.06	19,551	19,551	19,551				
13	4			0.15	0.06	19,551	19,551	19,551				
14	5			0.15	0.06 0.06	19,551 19,551	19,551 19.551	19,551				
15 16	6 7			0.15 0.15	0.06	19,551	19,551	19,551 19,551	136,857			
17	8			0.15	0.06	19,551	19,551	19,551	130,007			
18	9			0.15	0.06	19,551	19,551	19,551				
19	10			0.15	0.06	19,551	19,551	19,551				
20	11			0.15	0.06	19,551	19,551	19,551				
21	12			0.15	0.06	19,551	19.551	19.551				
22	13			0.15	0.06	19,551	19,551	19,551			1	
23	14			0.15	0.06	19,551	19,551	19,551	136,857			
24	15			0.15	0.06	19,551	19,551	19,551				
25	16			0.15	0.06	19,551	19,551	19,551				
26	17			0.15	0.06	19,551	19,551	19,551				
27	18			0.15	0.06	19,551	19,551	19,551				
28	19			0.15	0.06	19,551	19,551	19,551				
30	20 21		-	0.15 0.15	0.06 0.06	19,551 19,551	19,551 19.551	19,551 19,551	136.857			
31	22			0.15	0.06	19,551	19,551	19,551	130,857		•	
32	23			0.15	0.06	19,551	19,551	19,551				
33	24		<u> </u>	0.15	0.06	19,551	19,551	19,551			1	
34	25			0.15	0.06	19.551	19.551	19.551				
35	26			0.15	0.06	19,551	19,551	19,551				
36	27			0.15	0.06	19,551	19,551	19,551			1	
37	28			0.15	0.06	19,551	19,551	19,551	136,857			
38	29			0.15	0.06	19,551	19,551	19,551				
39	30			0.15	0.06	19,551	19,551	19,551	39,102			
40									4.00			
41	Total (ac-ft)	0.00	0.00	1.80	1.80	1.80	1.80	1.80	1.80			
42	Total (gal)	0	0	586,532	586,532	586,530	586,530	586,530	586,530			

\Box	A	В	С	D	E	F	G	Н	1 1		К	1
1	,,					Dove Po	nd (Golf Course Pond)		·			
2 3 4 5 6							Accounting Record					
3							mber - Monthly Tab					
4							-				Signed:	
5											Date:	
6		La	ake Surface Area (acres)	4.80								
7			Pan Factor	0.77								
8											=	
		Diversion Volume	Groundwater Volume	Default Evaporation	Default Evaporation	Default Evaporation	Calculated Net Inflow	Depleted Net Inflow	Supplemental			
	Day	(gal)	(gal)	Rate	(ac-ft)	(gal)	(gal)	(gal)	Groundwater Release	Comments		
9		(gui)	(gui)	(in)	, ,				(gal)		4	
10	11			0.11	0.04	13,034	13,034	13,034			4	
11	2		ļ	0.11	0.04	13,034	13,034	13,034			4	
12	3			0.11 0.11	0.04 0.04	13,034 13.034	13,034 13.034	13,034 13.034			4	
13	<u>4</u> 5		 	0.11 0.11	0.04	13,034	13,034 13,034	13,034 13,034			4	
15	6			0.11	0.04	13,034	13,034	13,034			-	
16	7			0.11	0.04	13,034	13.034	13,034			┥	
17	8			0.11	0.04	13,034	13,034	13,034			╡	
18	9			0.11	0.04	13.034	13.034	13,034			4	
19	10			0.11	0.04	13,034	13,034	13,034			1	
20	11			0.11	0.04	13,034	13,034	13,034			1	
21	12			0.11	0.04	13,034	13,034	13,034			1	
22	13			0.11	0.04	13,034	13,034	13,034			7	
23	14			0.11	0.04	13,034	13,034	13,034	182,476			
24	15			0.11	0.04	13,034	13,034	13,034				
25	16			0.11	0.04	13,034	13,034	13,034				
26	17			0.11	0.04	13,034	13,034	13,034			4	
27	18			0.11	0.04	13,034	13,034	13,034			4	
28	19			0.11 0.11	0.04 0.04	13,034	13,034 13.034	13,034 13.034			4	
29 30	20 21		 	0.11 0.11	0.04	13,034 13,034	13,034 13,034	13,034			4	
31	22		1	0.11	0.04	13,034	13,034	13,034			┥	
32	23			0.11	0.04	13,034	13.034	13,034			4	
33	24		1	0.11	0.04	13,034	13,034	13,034			1	
34	25		1	0.11	0.04	13.034	13,034	13,034			1	
35	26			0.11	0.04	13.034	13.034	13,034			1	
36	27			0.11	0.04	13,034	13,034	13,034			1	
37	28		1	0.11	0.04	13,034	13,034	13,034	182,476		1	
38	29			0.11	0.04	13,034	13,034	13,034]	
39	30			0.11	0.04	13,034	13,034	13,034]	
40	31			0.11	0.04	13,034	13,034	13,034	39,102	•]	
41	Total (ac-ft)	0.00	0.00	1.36	1.24	1.24	1.24	1.24	1.24			
42	Total (gal)	0	0	444,461	404,055	404,054	404,054	404,054	404,054		1	

Dove Pond (Golf Course Pond) Water Accounting Record Evap Data Tab

Month	Days in Month	TWDB 75th Percentile Monthly Rate (in)	Daily Pan Rate (in)	Pan Factor
January	31	2.48	0.11	0.73
February	28	2.95	0.15	0.70
March	31	4.53	0.21	0.69
April	30	5.40	0.27	0.67
May	31	5.39	0.29	0.60
June	30	7.38	0.37	0.67
July	31	9.04	0.42	0.69
August	31	8.35	0.38	0.70
September	30	6.57	0.30	0.73
October	31	5.14	0.22	0.77
November	30	3.52	0.15	0.80
December	31	2.74	0.11	0.77

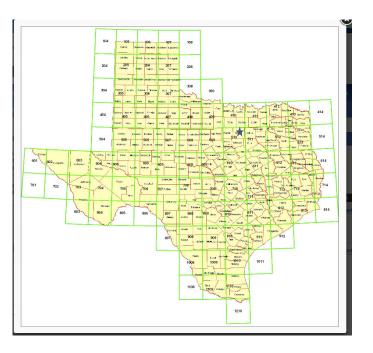
Dove Pond (Golf Course Pond) Water Accounting Record TWDB Pan Lake Factor Tab

							evelopmen actor Used						
Quad 410	Jan 0.73	Feb 0.7	Mar 0.69	Apr 0.67	May 0.6	Jun 0.67	Jul 0.69	Aug 0.7	Sep 0.73	Oct 0.77	Nov 0.8	Dec 0.77	Ann 0.7
411	0.74	0.71	0.7	0.68	0.61	0.68	0.7	0.71	0.74	0.78	0.81	0.78	0.71
412 413	0.75	0.73	0.71	0.69	0.62	0.69	0.71	0.72	0.75	0.79	0.82	0.79	0.72
414 501	0.77	0.74	0.73	0.72	0.66	0.72	0.73	0.74	0.77	0.8	0.82	0.8	0.74
502 503	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
504 505	0.7 0.7 0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75 0.75 0.75	0.73	0.67
506	0.71	0.68	0.68	0.65	0.58	0.65	0.67	0.68	0.71	0.75	0.78	0.75	0.68
507 508	0.72	0.69	0.68	0.65	0.57	0.65	0.68	0.69	0.72	0.77	0.81	0.77	0.69
509 510	0.73	0.7	0.69	0.67	0.6	0.67	0.69	0.7	0.73	0.77	0.8	0.77	0.7
511 512	0.74	0.71	0.7	0.68	0.61 0.62	0.68	0.7	0.71	0.74	0.78	0.81	0.78	0.71
513 514	0.75 0.76 0.77	0.72 0.73 0.74	0.71 0.72 0.73	0.71	0.65	0.71	0.72	0.72 0.73 0.74	0.75 0.76 0.77	0.79	0.81	0.79 0.79 0.8	0.72 0.73 0.74
601 602	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
603	0.69	0.67	0.67	0.66	0.61	0.66	0.67	0.67	0.69	0.72	0.73	0.72	0.67
604 605	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
606 607	0.71	0.68	0.67 0.68	0.66	0.6	0.66	0.67	0.68	0.71 0.72	0.74 0.75	0.76 0.77 0.77	0.74	0.68
608	0.72	0.69	0.68	0.67	0.61	0.67	0.68	0.69	0.72	0.75	0.77	0.75	0.69
610	0.73	0.7	0.69	0.67	0.6	0.67	0.69	0.7	0.73	0.77	0.8	0.77	0.7
611 612	0.74	0.72	0.7 0.71	0.69	0.63	0.69	0.7 0.71	0.71	0.74 0.75	0.77	0.79 0.82	0.77	0.71 0.72
613 614	0.75	0.73	0.73	0.72	0.67	0.72	0.73	0.73	0.75	0.78	0.79	0.78	0.73
701 702	0.71	0.68 0.67	0.67 0.66	0.66 0.64	0.6	0.66	0.67	0.68	0.71 0.71	0.74	0.76 0.76	0.74	0.68
703	0.7	0.67	0.66 0.67	0.65	0.59 0.61	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
704 705	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
706 707	0.7	0.67	0.66 0.68	0.65	0.59	0.65	0.66	0.67	0.72	0.73	0.75	0.73	0.67
708 709	0.72	0.69	0.68	0.67	0.61	0.67	0.68	0.69	0.72	0.75	0.77	0.75	0.69
710	0.73	0.7	0.69 0.71 0.72	0.67	0.6	0.67	0.69	0.7	0.73	0.77	0.8 0.77 0.78	0.77	0.7
711 712 713	0.73 0.74 0.75	0.71 0.72 0.73	0.72	0.71 0.72	0.66	0.71	0.71 0.72 0.73	0.71 0.72 0.73	0.74	0.77	0.78	0.76 0.77 0.78	0.72
714	0.76	0.74	0.74	0.73	0.68	0.73	0.74	0.74	0.76	0.79	0.8	0.79	0.74
801 802	0.71	0.68 0.67	0.67 0.66	0.66 0.64	0.6	0.66	0.67	0.68	0.71 0.71	0.74 0.74	0.76 0.76	0.74	0.68
803 804	0.69	0.67	0.67	0.66	0.61	0.66	0.67	0.67	0.69	0.72	0.73	0.72	0.67
805 806	0.7	0.67	0.66 0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
807 808	0.72	0.69	0.68	0.67	0.61	0.67	0.68	0.69	0.72 0.71	0.75 0.74	0.77 0.75	0.75	0.69
809	0.72	0.7	0.7	0.69	0.64	0.69	0.7	0.7	0.72	0.75	0.76	0.75	0.7
810 811	0.72	0.7 0.71	0.7 0.71	0.69	0.64	0.69	0.7 0.71	0.7	0.72 0.73	0.75 0.76	0.76	0.75	0.7 0.71
812 813	0.74	0.72	0.72	0.72	0.68	0.72	0.72	0.72	0.74	0.76	0.76	0.76	0.72
814 901	0.76	0.74	0.74	0.73	0.68	0.73	0.74	0.74	0.76	0.79	0.8	0.79	0.74
902 903	0.68	0.67	0.66 0.67	0.64	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
904 905	0.69	0.67 0.67 0.67	0.67 0.66	0.66	0.61	0.66	0.67	0.67	0.69	0.72	0.73 0.75	0.72 0.72 0.73	0.67 0.67
906	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
907 908	0.71 0.71 0.72	0.68	0.67 0.69 0.7	0.66	0.63	0.66	0.67 0.69 0.7	0.68	0.71 0.71	0.74	0.76	0.74 0.74 0.75	0.68
909 910	0.72	0.7	0.7	0.69	0.64	0.69	0.7	0.7	0.72	0.7S 0.7S	0.76	0.75	0.7
911 912	0.73	0.71	0.71	0.7	0.65	0.7	0.71	0.71	0.73	0.76	0.77	0.76	0.71 0.72
913 914	0.74	0.72	0.72	0.72	0.68	0.72	0.72	0.72	0.74	0.76	0.76	0.76	0.72
1001	0.74 0.71 0.68	0.72 0.68 0.67	0.72 0.67 0.66	0.66 0.64	0.6 0.6	0.66 0.66	0.67 0.67	0.68 0.68	0.71 0.71	0.74 0.74	0.76 0.76	0.74	0.68 0.68
1003	0.69	0.67	0.67	0.66	0.61	0.66	0.67	0.68					
1004 1005	0.69	0.67	0.67					0.67	0.69	0.72	0.73	0.72	0.67
1006 1007		0.67	0.66	0.66	0.61	0.66	0.67	0.67 0.67	0.69 0.69 0.7	0.72 0.72 0.73	0.73 0.73 0.75	0.72 0.72 0.73	0.67 0.67 0.67
	0.7	0.67 0.67 0.68	0.66 0.66 0.67	0.65 0.65 0.66	0.61 0.59 0.59 0.6	0.66 0.65 0.65 0.66	0.67	0.67	0.69	0.72 0.72 0.73	0.73	0.72	0.67
1008	0.71 0.71 0.72	0.67 0.68 0.69	0.66 0.67 0.69	0.65 0.65 0.66 0.68	0.59 0.59 0.6 0.63	0.65 0.65 0.66 0.68	0.67 0.66 0.66 0.67 0.69	0.67 0.67 0.67 0.67 0.68 0.69	0.69 0.69 0.7 0.7 0.71 0.71	0.72 0.72 0.73 0.73 0.74 0.74	0.73 0.73 0.75 0.75 0.76 0.76	0.72 0.72 0.73 0.73 0.74 0.74	0.67 0.67 0.67 0.67 0.68 0.69
1008 1009 1010	0.71 0.71 0.72	0.67 0.68 0.69	0.66 0.67 0.69	0.65 0.65 0.66 0.68 0.69	0.59 0.59 0.6 0.63 0.64 0.66	0.65 0.65 0.66 0.68	0.67 0.66 0.66 0.67 0.69	0.67 0.67 0.67 0.67 0.68 0.69	0.69 0.69 0.7 0.7 0.71 0.71	0.72 0.72 0.73 0.73 0.74 0.74	0.73 0.73 0.75 0.75 0.76 0.76	0.72 0.72 0.73 0.73 0.74 0.74	0.67 0.67 0.67 0.67 0.68 0.69
1008 1009 1010 1011 1012	0.71 0.71 0.72 0.72 0.73	0.67 0.68 0.69 0.7 0.7 0.71	0.66 0.67 0.69 0.7 0.7 0.7 0.71	0.65 0.65 0.66 0.68 0.69 0.7 0.7	0.59 0.59 0.6 0.63 0.64 0.66 0.65	0.65 0.65 0.66 0.68 0.69 0.7 0.7	0.67 0.66 0.66 0.67 0.69 0.7 0.7 0.7	0.67 0.67 0.67 0.68 0.69 0.7 0.7 0.71 0.72	0.69 0.69 0.7 0.7 0.71 0.71 0.72 0.72 0.73 0.74	0.72 0.72 0.73 0.73 0.74 0.74 0.75 0.74 0.76	0.73 0.73 0.75 0.75 0.76 0.76 0.76 0.74 0.77	0.72 0.72 0.73 0.73 0.74 0.74 0.75 0.74 0.76	0.67 0.67 0.67 0.68 0.69 0.7 0.7 0.7 0.71
1008 1009 1010 1011 1012 1013 1014	0.71 0.72 0.72 0.72 0.73 0.74 0.74	0.67 0.68 0.69 0.7 0.7 0.71 0.72 0.72 0.72	0.66 0.66 0.67 0.69 0.7 0.7 0.71 0.72 0.72 0.72	0.65 0.65 0.66 0.68 0.69 0.7 0.7 0.7 0.72 0.72	0.59 0.59 0.6 0.63 0.64 0.66 0.65 0.68 0.68	0.65 0.65 0.66 0.68 0.69 0.7 0.7 0.7 0.72 0.72	0.67 0.66 0.66 0.67 0.69 0.7 0.7 0.71 0.72 0.72	0.67 0.67 0.67 0.68 0.69 0.7 0.7 0.71 0.72 0.72	0.69 0.7 0.7 0.7 0.71 0.71 0.72 0.72 0.73 0.74 0.74	0.72 0.72 0.73 0.73 0.74 0.74 0.75 0.74 0.76 0.76 0.76	0.73 0.73 0.75 0.75 0.76 0.76 0.76 0.74 0.77 0.76 0.76	0.72 0.72 0.73 0.73 0.74 0.74 0.75 0.74 0.76 0.76 0.76 0.76	0.67 0.67 0.67 0.68 0.69 0.7 0.7 0.71 0.72 0.72 0.72
1008 1009 1010 1011 1012 1013 1014 1101	0.71 0.72 0.72 0.72 0.73 0.74 0.74 0.74 0.71	0.67 0.68 0.69 0.7 0.7 0.71 0.72 0.72 0.72 0.68 0.67	0.66 0.66 0.67 0.69 0.7 0.7 0.71 0.72 0.72 0.72 0.72 0.67 0.66	0.65 0.65 0.66 0.68 0.69 0.7 0.7 0.72 0.72 0.72 0.72	0.59 0.69 0.63 0.64 0.66 0.65 0.68 0.68 0.68	0.65 0.65 0.66 0.68 0.69 0.7 0.7 0.72 0.72 0.72 0.72	0.67 0.66 0.66 0.67 0.7 0.7 0.71 0.72 0.72 0.72 0.72 0.72	0.67 0.67 0.67 0.68 0.69 0.7 0.7 0.71 0.72 0.72 0.72 0.72 0.68 0.69	0.69 0.69 0.7 0.7 0.71 0.71 0.72 0.72 0.73 0.74 0.74 0.74 0.74 0.71 0.71	0.72 0.72 0.73 0.73 0.74 0.74 0.75 0.74 0.76 0.76 0.76 0.76 0.76 0.76	0.73 0.73 0.75 0.75 0.76 0.76 0.76 0.74 0.77 0.76 0.76 0.76 0.76 0.76	0.72 0.72 0.73 0.73 0.74 0.74 0.75 0.74 0.76 0.76 0.76 0.76 0.76 0.76	0.67 0.67 0.67 0.68 0.69 0.7 0.7 0.71 0.72 0.72 0.72 0.72 0.68 0.68
1008 1009 1010 1011 1012 1013 1014 1101 1102 1103	0.71 0.72 0.72 0.72 0.73 0.74 0.74 0.74 0.71 0.68 0.69	0.67 0.68 0.69 0.7 0.7 0.71 0.72 0.72 0.72 0.72 0.68	0.66 0.66 0.67 0.69 0.7 0.7 0.71 0.72 0.72 0.72 0.67 0.66 0.67	0.65 0.65 0.66 0.68 0.69 0.7 0.7 0.72 0.72 0.72 0.66 0.64 0.66 0.66	0.59 0.69 0.63 0.64 0.66 0.65 0.68 0.68 0.68 0.68 0.60 0.61	0.65 0.65 0.66 0.68 0.69 0.7 0.7 0.72 0.72 0.72 0.66 0.66	0.67 0.66 0.66 0.67 0.69 0.7 0.7 0.71 0.72 0.72 0.72 0.67	0.67 0.67 0.67 0.68 0.69 0.7 0.7 0.72 0.72 0.72 0.68 0.68 0.69	0.69 0.69 0.7 0.7 0.71 0.71 0.72 0.72 0.73 0.74 0.74 0.74 0.71	0.72 0.72 0.73 0.74 0.74 0.75 0.74 0.76 0.76 0.76 0.76 0.74 0.77 0.74	0.73 0.73 0.75 0.75 0.76 0.76 0.76 0.77 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76	0.72 0.72 0.73 0.73 0.74 0.74 0.75 0.74 0.76 0.76 0.76 0.76 0.76 0.74 0.72	0.67 0.67 0.67 0.68 0.69 0.7 0.7 0.71 0.72 0.72 0.72 0.68
1008 1009 1010 1011 1012 1013 1014 1101 1102 1103 1104 1105	0.71 0.71 0.72 0.72 0.73 0.74 0.74 0.74 0.71 0.68 0.69 0.69	0.67 0.68 0.69 0.7 0.71 0.72 0.72 0.72 0.68 0.67 0.67 0.67	0.66 0.66 0.67 0.69 0.7 0.7 0.71 0.72 0.72 0.67 0.66 0.67 0.66	0.65 0.65 0.66 0.68 0.69 0.7 0.7 0.72 0.72 0.72 0.66 0.64 0.66 0.66	0.59 0.59 0.6 0.63 0.64 0.65 0.68 0.68 0.68 0.6 0.6 0.6 0.61 0.59	0.65 0.65 0.66 0.68 0.69 0.7 0.7 0.72 0.72 0.72 0.66 0.66 0.66	0.67 0.66 0.66 0.67 0.7 0.7 0.71 0.72 0.72 0.67 0.67 0.67 0.67	0.67 0.67 0.67 0.68 0.69 0.7 0.71 0.72 0.72 0.72 0.68 0.68 0.68 0.69	0.69 0.69 0.7 0.7 0.71 0.72 0.73 0.74 0.74 0.74 0.71 0.71 0.71 0.71 0.72 0.73	0.72 0.72 0.73 0.73 0.74 0.74 0.76 0.76 0.76 0.76 0.76 0.74 0.74 0.72 0.72 0.73	0.73 0.73 0.75 0.75 0.76 0.76 0.76 0.77 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76	0.72 0.72 0.73 0.73 0.74 0.74 0.75 0.76 0.76 0.76 0.76 0.76 0.74 0.74 0.72 0.72 0.73	0.67 0.67 0.67 0.68 0.69 0.7 0.7 0.71 0.72 0.72 0.72 0.68 0.68 0.69
1008 1009 1010 1011 1012 1013 1014 1101 1102 1103 1104 1105 1106 1107	0.71 0.71 0.72 0.72 0.73 0.74 0.74 0.74 0.71 0.68 0.69 0.7 0.7 0.7	0.67 0.68 0.69 0.7 0.71 0.72 0.72 0.72 0.72 0.68 0.67 0.67 0.67 0.67	0.66 0.67 0.67 0.7 0.7 0.71 0.72 0.72 0.66 0.67 0.66 0.67 0.66 0.66 0.66	0.65 0.66 0.68 0.69 0.7 0.7 0.72 0.72 0.72 0.64 0.66 0.66 0.65 0.65 0.66	0.59 0.59 0.6 0.63 0.64 0.66 0.68 0.68 0.68 0.6 0.61 0.61 0.59 0.59	0.65 0.66 0.68 0.69 0.7 0.7 0.72 0.72 0.72 0.66 0.66 0.66 0.66 0.65 0.65	0.67 0.66 0.66 0.67 0.69 0.7 0.71 0.72 0.72 0.67 0.67 0.67 0.67 0.66 0.66	0.67 0.67 0.67 0.68 0.69 0.7 0.7 0.71 0.72 0.72 0.72 0.68 0.68 0.69 0.67 0.67 0.67	0.69 0.69 0.7 0.7 0.71 0.71 0.72 0.72 0.73 0.74 0.74 0.71 0.69 0.69 0.7 0.7 0.7 0.7	0.72 0.72 0.73 0.73 0.74 0.74 0.75 0.74 0.76 0.76 0.76 0.76 0.76 0.74 0.72 0.72 0.72 0.73	0.73 0.73 0.75 0.75 0.76 0.76 0.74 0.77 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.77 0.76 0.76 0.77 0.76 0.77 0.76 0.77 0.76 0.76 0.77 0.76 0.76 0.76 0.77 0.76 0.75	0.72 0.72 0.73 0.73 0.74 0.74 0.75 0.74 0.76 0.76 0.76 0.76 0.76 0.77 0.72 0.72 0.72 0.73 0.73	0.67 0.67 0.67 0.67 0.69 0.7 0.7 0.71 0.72 0.72 0.72 0.68 0.68 0.69 0.67 0.67
1008 1009 1010 1011 1012 1013 1014 1101 1102 1103 1104 1105 1106	0.71 0.72 0.72 0.72 0.73 0.74 0.74 0.74 0.74 0.68 0.69 0.69 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7	0.67 0.68 0.69 0.7 0.7 0.71 0.72 0.72 0.72 0.68 0.67 0.67 0.67 0.67 0.69	0.66 0.66 0.67 0.69 0.7 0.7 0.71 0.72 0.72 0.72 0.66 0.67 0.66 0.66 0.66 0.66	0.65 0.65 0.66 0.68 0.69 0.7 0.7 0.72 0.72 0.66 0.66 0.65 0.65 0.65	0.59 0.59 0.6 0.63 0.64 0.66 0.68 0.68 0.68 0.6 0.6 0.6 0.6 0.5 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6	0.65 0.65 0.66 0.68 0.69 0.7 0.72 0.72 0.72 0.66 0.66 0.66 0.66 0.65 0.65 0.69	0.67 0.66 0.66 0.67 0.69 0.7 0.71 0.72 0.72 0.72 0.67 0.67 0.67 0.66 0.66 0.66	0.67 0.67 0.67 0.68 0.69 0.7 0.7 0.7 0.72 0.72 0.72 0.72 0.68 0.68 0.69 0.69	0.69 0.69 0.7 0.7 0.71 0.71 0.72 0.72 0.74 0.74 0.74 0.71 0.69 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7	0.72 0.72 0.73 0.73 0.74 0.75 0.74 0.76 0.76 0.76 0.76 0.74 0.74 0.72 0.72 0.73 0.73	0.73 0.73 0.75 0.75 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.75 0.75 0.76 0.75	0.72 0.72 0.73 0.73 0.74 0.74 0.75 0.74 0.76 0.76 0.76 0.76 0.74 0.72 0.72 0.73 0.73	0.67 0.67 0.67 0.67 0.68 0.69 0.7 0.71 0.72 0.72 0.72 0.68 0.69 0.69 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7
1008 1009 1010 1011 1012 1013 1014 1101 1102 1103 1104 1105 1106 1107	0.71 0.71 0.72 0.72 0.73 0.74 0.74 0.74 0.71 0.68 0.69 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7	0.67 0.68 0.69 0.7 0.7 0.71 0.72 0.72 0.68 0.67 0.67 0.67 0.67 0.68 0.69 0.7	0.66 0.66 0.67 0.69 0.7 0.71 0.72 0.72 0.67 0.67 0.66 0.67 0.66 0.67 0.69 0.7	0.65 0.65 0.66 0.68 0.69 0.7 0.72 0.72 0.72 0.66 0.64 0.66 0.65 0.65 0.66 0.69	0.59 0.59 0.6 0.63 0.64 0.66 0.68 0.68 0.6 0.61 0.61 0.59 0.69 0.69 0.69 0.61 0.61 0.69 0.69 0.61 0.69 0.	0.65 0.65 0.66 0.68 0.69 0.7 0.7 0.72 0.72 0.72 0.66 0.66 0.66 0.65 0.65 0.66 0.69 0.7	0.67 0.66 0.66 0.67 0.69 0.7 0.71 0.72 0.72 0.72 0.67 0.67 0.67 0.66 0.66 0.66 0.67	0.67 0.67 0.67 0.68 0.7 0.7 0.71 0.72 0.72 0.68 0.68 0.67 0.67 0.67 0.67 0.67 0.67 0.67 0.69	0.69 0.69 0.7 0.7 0.71 0.71 0.72 0.72 0.73 0.74 0.74 0.71 0.71 0.79 0.70 0.71 0.71 0.71 0.71 0.79 0.70 0.77 0.77 0.77 0.77 0.77 0.77	0.72 0.72 0.73 0.73 0.74 0.75 0.76 0.76 0.76 0.76 0.76 0.74 0.72 0.72 0.73 0.74 0.74 0.74 0.75 0.74 0.75 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.77	0.73 0.73 0.75 0.75 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.77 0.76 0.77 0.76 0.76 0.76 0.77 0.76 0.77 0.76 0.76 0.77 0.76 0.76 0.77 0.76 0.76 0.77 0.76 0.77 0.76 0.76 0.77 0.78	0.72 0.72 0.73 0.73 0.74 0.75 0.76 0.76 0.76 0.76 0.76 0.74 0.72 0.72 0.73 0.74 0.74 0.75 0.76 0.77 0.72 0.72 0.73 0.73 0.74 0.73 0.74 0.73 0.74 0.74 0.75 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.77 0.77 0.73 0.73 0.74	0.67 0.67 0.67 0.67 0.68 0.68 0.69 0.7 0.71 0.72 0.72 0.72 0.68 0.68 0.67 0.67 0.67 0.67 0.70 0.71
1008 1009 1010 1011 1012 1013 1014 1101 1102 1103 1104 1105 1106 1107 1108 1109 1110 1111 1111 1111	0.71 0.72 0.72 0.73 0.74 0.74 0.74 0.74 0.75 0.69 0.69 0.7 0.71 0.71 0.72 0.73 0.74 0.74 0.74 0.74 0.74 0.74 0.74 0.75 0.76 0.76 0.77 0	0.67 0.68 0.69 0.7 0.7 0.7 0.72 0.72 0.68 0.67 0.67 0.67 0.67 0.68 0.69 0.7 0.7 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.73 0.74 0.75	0.66 0.66 0.67 0.69 0.7 0.71 0.72 0.72 0.66 0.67 0.66 0.66 0.66 0.66 0.69 0.7 0.70 0.	0.65 0.65 0.66 0.68 0.69 0.7 0.7 0.72 0.72 0.66 0.66 0.65 0.65 0.65	0.59 0.59 0.6 0.63 0.64 0.66 0.68 0.68 0.68 0.6 0.6 0.6 0.6 0.5 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6	0.65 0.65 0.68 0.69 0.7 0.7 0.72 0.72 0.72 0.66 0.66 0.65 0.65 0.65 0.65 0.69 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7	0.67 0.66 0.66 0.67 0.69 0.7 0.7 0.72 0.72 0.72 0.67 0.67 0.67 0.66 0.66 0.67 0.69 0.7 0.70 0.7	0.67 0.67 0.67 0.68 0.69 0.7 0.71 0.72 0.72 0.72 0.68 0.68 0.67 0.67 0.67 0.68 0.69 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7	0.69 0.69 0.7 0.7 0.71 0.71 0.72 0.72 0.74 0.74 0.74 0.71 0.69 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7	0.72 0.72 0.73 0.73 0.74 0.75 0.74 0.76 0.76 0.76 0.76 0.74 0.74 0.72 0.72 0.73 0.73	0.73 0.73 0.75 0.75 0.76 0.76 0.76 0.77 0.76 0.76 0.76 0.76	0.72 0.72 0.73 0.73 0.74 0.74 0.75 0.74 0.76 0.76 0.76 0.76 0.74 0.72 0.72 0.73 0.73	0.67 0.67 0.67 0.68 0.68 0.69 0.7 0.71 0.72 0.72 0.68 0.68 0.69 0.67 0.67 0.67 0.69 0.70 0.71 0.72 0.72 0.72 0.68 0.69 0.69 0.70 0.71 0.72 0.72 0.72 0.72 0.73 0.74 0.75 0
1008 1009 1010 1011 1012 1013 1014 1101 1102 1103 1104 1105 1106 1107 1108 1109 1110 1111 1111 1111	0.71 0.72 0.72 0.73 0.74 0.74 0.74 0.74 0.79 0.69 0.69 0.7 0.7 0.71 0.71 0.72 0.73 0.74 0.74 0.74 0.74 0.74 0.74 0.74 0.74 0.74 0.75 0.69 0.79 0.	0.67 0.68 0.69 0.7 0.7 0.71 0.72 0.72 0.68 0.67 0.67 0.67 0.67 0.69 0.7 0.71 0.72 0.72 0.72 0.72 0.72 0.72 0.73 0.74 0.75 0.7	0.66 0.66 0.67 0.69 0.7 0.71 0.72 0.72 0.66 0.67 0.66 0.66 0.66 0.67 0.70 0	0.65 0.65 0.66 0.68 0.69 0.7 0.7 0.72 0.72 0.64 0.66 0.65 0.65 0.65 0.69 0.7 0.7 0.7 0.72 0.73 0.73 0.73 0.73 0.73 0.73 0.73 0.73 0.73 0.73 0.73 0.73 0.73	0.59 0.59 0.6 0.63 0.64 0.65 0.68 0.68 0.68 0.61 0.61 0.59 0.59 0.59 0.66 0.65 0.68 0.68	0.65 0.65 0.66 0.68 0.69 0.7 0.7 0.72 0.72 0.66 0.66 0.66 0.65 0.65 0.65 0.65 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7	0.67 0.66 0.66 0.67 0.7 0.7 0.71 0.72 0.72 0.67 0.67 0.67 0.67 0.69 0.7 0.7 0.70 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.73 0.75	0.67 0.67 0.67 0.68 0.69 0.7 0.71 0.72 0.72 0.72 0.68 0.68 0.67 0.67 0.67 0.69 0.7 0.71 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.73 0.69 0.69 0.7 0.71 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.73 0.68 0.69 0.69 0.69 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7	0.69 0.7 0.7 0.7 0.71 0.71 0.72 0.73 0.74 0.74 0.74 0.71 0.71 0.71 0.71 0.71 0.71 0.72 0.73 0.74 0.74 0.74 0.74 0.74 0.74 0.74 0.74	0.72 0.72 0.73 0.73 0.74 0.74 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.74 0.74 0.74 0.74 0.74 0.74 0.74 0.74 0.74 0.74 0.76 0.77 0.77 0.78 0.79	0.73 0.73 0.75 0.75 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76	0.72 0.72 0.73 0.73 0.74 0.74 0.76 0.76 0.76 0.76 0.77 0.72 0.72 0.73 0.74 0.74 0.74 0.74 0.74 0.74 0.74 0.74 0.74 0.74 0.74 0.74 0.76 0.77 0.72 0.73 0.73 0.74 0.74 0.74 0.74 0.74 0.74 0.75 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.77 0.77 0.73 0.74 0.74 0.74 0.74 0.74 0.74 0.74 0.74 0.74 0.74 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.77 0.73 0.74 0.74 0.74 0.74 0.74 0.76	0.67 0.67 0.67 0.69 0.69 0.7 0.7 0.7 0.72 0.72 0.68 0.69 0.69 0.69 0.68 0.69 0.69 0.69 0.69 0.7 0.72 0.72 0.72 0.68 0.69 0.69 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7
1008 1009 1010 1011 1012 1013 1013 1014 1101 1102 1103 1104 1106 1107 1108 1109 1110 1111 1111 1112 1113 1114 1202	0.71 0.72 0.72 0.72 0.73 0.74 0.74 0.74 0.71 0.68 0.69 0.7 0.7 0.71 0.71 0.72 0.73 0.74 0.74 0.74 0.74 0.74 0.74 0.74 0.74 0.74 0.74 0.75 0.79 0.	0.67 0.68 0.69 0.7 0.7 0.71 0.72 0.72 0.68 0.67 0.67 0.67 0.67 0.69 0.7 0.71 0.72 0.72 0.69 0.67 0.67 0.67 0.69 0.7 0.72 0.69 0.69 0.7 0.72 0.69 0.67 0.67 0.67 0.69 0.7 0.7 0.7 0.7 0.7 0.69 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7	0.66 0.66 0.67 0.69 0.7 0.7 0.72 0.72 0.67 0.66 0.67 0.66 0.67 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.67 0.66 0.67 0.67 0.67 0.67 0.66 0.67 0.67 0.79 0.66 0.66 0.66 0.66 0.66 0.66 0.79 0.79 0.79 0.79 0.79 0.79 0.79 0.66 0.66 0.66 0.79 0.79 0.79 0.79 0.79 0.79 0.66 0.79 0.	0.65 0.65 0.66 0.68 0.69 0.7 0.7 0.72 0.72 0.66 0.66 0.66 0.65 0.66 0.69 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7	0.59 0.59 0.6 0.63 0.64 0.66 0.68 0.68 0.68 0.61 0.61 0.61 0.61 0.69 0.68 0	0.65 0.65 0.66 0.68 0.7 0.7 0.7 0.72 0.72 0.66 0.66 0.66 0.65 0.65 0.69 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7	0.67 0.66 0.67 0.69 0.7 0.7 0.71 0.72 0.72 0.67 0.67 0.67 0.66 0.69 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7	0.67 0.67 0.67 0.68 0.69 0.7 0.71 0.72 0.72 0.68 0.68 0.69 0.67 0.68 0.69 0.7 0.72 0.68 0.68 0.68 0.68 0.68 0.72 0.72 0.72 0.72 0.68 0.68 0.68 0.68 0.72 0.72 0.72 0.72 0.68 0.68 0.68 0.68 0.72 0.72 0.72 0.72 0.72 0.68 0.68 0.68 0.72 0.73 0.73 0.73 0.73 0.73 0.73 0.73 0.	0.69 0.7 0.7 0.7 0.71 0.71 0.72 0.72 0.73 0.74 0.74 0.74 0.71 0.71 0.71 0.71 0.71 0.71 0.72 0.73 0.74 0.74 0.74 0.74 0.74 0.74 0.74 0.77 0.77	0.72 0.72 0.73 0.73 0.74 0.74 0.75 0.76 0.76 0.76 0.76 0.76 0.74 0.74 0.72 0.72 0.73 0.74 0.75 0.76 0.77 0.76	0.73 0.75 0.75 0.75 0.76 0.76 0.74 0.77 0.76 0.76 0.76 0.76 0.76 0.76 0.76	0.72 0.73 0.73 0.73 0.74 0.74 0.76 0.76 0.76 0.76 0.77 0.72 0.72 0.72 0.73 0.74 0.76 0.77 0.72 0.73 0.74 0.74 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.77 0.77 0.77 0.77 0.78 0.78 0.78 0.78 0.78 0.78 0.78 0.78 0.78 0.78 0.78 0.78 0.78 0.78 0.78 0.78 0.78 0.78 0.76	0.67 0.67 0.67 0.69 0.7 0.7 0.7 0.7 0.72 0.72 0.88 0.69 0.7 0.7 0.72 0.72 0.68 0.69 0.69 0.7 0.7 0.7 0.72 0.72 0.88 0.69 0.69 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7
1008 1009 1010 1011 1011 1013 1013 1014 1101 1102 1103 1104 1105 1106 1107 1108 1109 1110 1111 1111 1111 1112 1113 1114 1201 1202	0.71 0.72 0.72 0.73 0.74 0.74 0.74 0.71 0.68 0.69 0.7 0.71 0.71 0.72 0.72 0.73 0.74 0.74 0.74 0.74 0.74 0.74 0.74 0.75 0.69 0.7 0.71 0.71 0.72 0.73 0.74 0.74 0.74 0.74 0.74 0.74 0.74 0.75 0.76 0.79 0.	0.67 0.68 0.7 0.7 0.71 0.72 0.72 0.67 0.67 0.67 0.67 0.67 0.69 0.7 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.67 0.67 0.67 0.69 0.67 0.69 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7	0.66 0.66 0.67 0.69 0.7 0.7 0.71 0.72 0.67 0.66 0.66 0.66 0.7 0.71 0.71 0.72 0.72 0.67 0.66 0.67 0.79 0.70 0.7	0.65 0.65 0.66 0.68 0.7 0.7 0.72 0.72 0.66 0.66 0.66 0.65 0.65 0.65 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7	0.59 0.59 0.6 0.63 0.64 0.66 0.68 0.68 0.6 0.61 0.51 0.59 0.6 0.65 0.66 0.65 0.66 0.65 0.66 0.65 0.66 0.65 0.66 0.61 0.61 0.66 0.65 0.66 0.61 0.61 0.69 0.66 0.65 0.66 0.61 0.61 0.69 0.6	0.65 0.65 0.66 0.68 0.7 0.7 0.72 0.72 0.66 0.66 0.66 0.65 0.65 0.65 0.69 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7	0.67 0.66 0.67 0.69 0.7 0.7 0.71 0.72 0.72 0.67 0.67 0.66 0.69 0.7 0.67 0.69 0.7 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.67 0.66 0.69 0.69 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7	0.67 0.67 0.67 0.68 0.69 0.7 0.72 0.72 0.72 0.68 0.68 0.67 0.67 0.67 0.67 0.67 0.69 0.72 0.68 0.67 0.67 0.67 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.67 0.67 0.67 0.67 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.67 0.67 0.67 0.72 0.68 0.68 0.68 0.68 0.68 0.69 0.70 0.72 0.72 0.72 0.68 0.68 0.68 0.68 0.68 0.68 0.68 0.68 0.68 0.68 0.68 0.68 0.68 0.68 0.72 0.68 0.68 0.68 0.68 0.68 0.68 0.68 0.68 0.68 0.68 0.68 0.68 0.68 0.68 0.68 0.68 0.68 0.68 0.78 0	0.69 0.7 0.7 0.7 0.7 0.71 0.71 0.72 0.73 0.74 0.74 0.74 0.71 0.69 0.7 0.71 0.72 0.72 0.73 0.74 0.74 0.74 0.74 0.71 0.69 0.7 0.71 0.71 0.72 0.73 0.74 0.74 0.74 0.71 0.79 0.79 0.71 0.71 0.71 0.71 0.72 0.73 0.74 0.74 0.74 0.74 0.74 0.74 0.74 0.74	0.72 0.72 0.73 0.73 0.74 0.74 0.75 0.76 0.76 0.76 0.76 0.76 0.76 0.77 0.72 0.73 0.74 0.72 0.73 0.74 0.75 0.76 0.77 0.77 0.77 0.77 0.77 0.77 0.77 0.77 0.77 0.77 0.77 0.77 0.77 0.77 0.77 0.77 0.77 0.77 0.77 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.77 0.77 0.77 0.77 0.77 0.77 0.76 0.76 0.76 0.76 0.77	0.73 0.75 0.75 0.75 0.76 0.75 0.76 0.76 0.77 0.76 0.77 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.77 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.77 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.77 0.76 0.76 0.76 0.76 0.76 0.77 0.76 0.76 0.77 0.76 0.77 0.76 0.77 0.76 0.77 0.76 0.77 0.76 0.77 0.76 0.77 0.76 0.77 0.76 0.77 0.76 0.77 0.76 0.77 0.76 0.77 0.76 0.77 0.77 0.76 0.77 0.76 0.77 0.76 0.77 0.76 0.77 0.76 0.76 0.76 0.76 0.77 0.76 0.77 0.78	0.72 0.73 0.73 0.73 0.74 0.74 0.75 0.76 0.76 0.76 0.76 0.76 0.74 0.72 0.73 0.74 0.72 0.73 0.74 0.75 0.76 0.77 0.72 0.73 0.74 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.77 0.77 0.77 0.77 0.77 0.77 0.77 0.77 0.77 0.77 0.76 0.77	0.67 0.67 0.67 0.67 0.69 0.7 0.7 0.7 0.71 0.72 0.72 0.72 0.72 0.68 0.68 0.69 0.67 0.67 0.67 0.67 0.67 0.67 0.67 0.69 0.7 0.7 0.72 0.88 0.68 0.69 0.7 0.7 0.7 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.68 0.69 0.67 0.67 0.67 0.67 0.69 0.69 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7
1008 1009 1010 1011 1012 1013 1014 1101 1102 1103 1104 1105 1106 1107 1108 1110 1111 1111 1112 1113 1114 1201 1202 1203 1204 1205	0.71 0.72 0.72 0.73 0.74 0.74 0.74 0.71 0.69 0.69 0.7 0.71 0.72 0.72 0.73 0.74 0.74 0.74 0.79 0.69 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7	0.67 0.68 0.7 0.7 0.71 0.72 0.72 0.67 0.67 0.67 0.68 0.69 0.7 0.72 0.72 0.68 0.69 0.7 0.72 0.68 0.69 0.7 0.72 0.68 0.69 0.69 0.7 0.69 0.69 0.69 0.69 0.69 0.69 0.7 0.69 0.69 0.69 0.69 0.7 0.7 0.69 0.69 0.69 0.7 0.69 0.69 0.69 0.7 0.7 0.69 0.69 0.69 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7	0.66 0.66 0.67 0.69 0.7 0.7 0.71 0.72 0.72 0.67 0.66 0.67 0.69 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7	0.65 0.65 0.66 0.68 0.7 0.7 0.72 0.72 0.72 0.66 0.66 0.65 0.65 0.65 0.69 0.7 0.7 0.7 0.7 0.7 0.7 0.64 0.66 0.65 0.65 0.69 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7	0.59 0.69 0.63 0.64 0.66 0.68 0.68 0.68 0.61 0.61 0.61 0.61 0.69	0.65 0.65 0.66 0.68 0.7 0.7 0.7 0.72 0.72 0.66 0.66 0.66 0.65 0.65 0.65 0.69 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7	0.67 0.66 0.69 0.7 0.7 0.7 0.7 0.71 0.72 0.72 0.69 0.67 0.66 0.66 0.66 0.69 0.7 0.7 0.7 0.7 0.67 0.67 0.67 0.69 0.7 0.7 0.69 0.69 0.69 0.69 0.7 0.69 0.69 0.69 0.69 0.69 0.69 0.69 0.69 0.69 0.7 0.7 0.7 0.69 0.69 0.69 0.69 0.69 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7	0.67 0.67 0.67 0.68 0.69 0.7 0.71 0.72 0.72 0.72 0.68 0.67 0.67 0.67 0.67 0.67 0.67 0.71 0.72 0.72 0.72 0.72 0.72 0.73 0.68 0.69 0.7 0.71 0.72 0.72 0.72 0.72 0.72 0.73 0.74 0.75 0.75 0.77 0.77 0.77 0.72 0.72 0.72 0.72 0.72 0.73 0.74 0.75 0.75 0.77 0.68 0.68 0.68 0.69 0.69 0.68 0.68 0.68 0.68 0.68 0.68 0.68 0.68 0.68 0.68 0.77 0.77 0.77 0.77 0.72 0.68 0.68 0.68 0.68 0.68 0.68 0.68 0.68 0.68 0.68 0.68 0.68 0.68 0.68 0.68 0.68 0.68 0.68 0.68 0.77 0.77 0.77 0.78 0.68 0.	0.69 0.69 0.7 0.7 0.7 0.71 0.71 0.72 0.72 0.74 0.74 0.71 0.69 0.69 0.7 0.7 0.7 0.71 0.71 0.71 0.71 0.69 0.69 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7	0.72 0.72 0.73 0.73 0.73 0.74 0.74 0.75 0.76 0.76 0.76 0.76 0.74 0.72 0.72 0.73 0.73 0.73 0.73 0.74 0.75 0.76 0.77 0.72 0.73 0.73 0.74 0.76 0.76 0.76 0.76 0.76 0.77 0.77 0.73 0.74 0.76 0.76 0.76 0.76 0.76 0.77	0.73 0.75 0.75 0.75 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76	0.72 0.73 0.73 0.73 0.73 0.74 0.74 0.75 0.76 0.76 0.76 0.76 0.77 0.72 0.72 0.73 0.73 0.73 0.73 0.73 0.73 0.74 0.76 0.76 0.76 0.76 0.77 0.77 0.77 0.77	0.67 0.67 0.67 0.69 0.69 0.7 0.7 0.7 0.7 0.7 0.72 0.72 0.72 0.69 0.69 0.69 0.69 0.67 0.69 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7
1008 1009 1010 1011 1011 1012 1013 1014 1101 1102 1103 1104 1105 1106 1107 1108 1109 1111 1111 1111 1111 1111 1111	0.71 0.72 0.72 0.73 0.74 0.74 0.74 0.71 0.69 0.69 0.7 0.71 0.72 0.73 0.74 0.74 0.74 0.74 0.74 0.75 0.79 0.70 0.70 0.70 0.71 0.72 0.73 0.74 0.74 0.74 0.75 0.69 0.69 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7	0.67 0.68 0.69 0.7 0.71 0.72 0.72 0.67 0.67 0.67 0.67 0.69 0.7 0.72 0.69 0.7 0.69 0.7 0.69 0.7 0.69 0.69 0.7 0.72 0.69 0.69 0.69 0.67 0.67 0.69 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7	0.66 0.56 0.67 0.69 0.7 0.7 0.71 0.72 0.67 0.66 0.67 0.66 0.67 0.72 0.72 0.72 0.72 0.67 0.66 0.67 0.69 0.7 0.7 0.7 0.7 0.66 0.67 0.69 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7	0.65 0.65 0.66 0.68 0.7 0.7 0.72 0.72 0.72 0.66 0.66 0.65 0.65 0.69 0.7 0.7 0.7 0.72 0.66 0.66 0.69 0.7 0.7 0.7 0.7 0.66 0.69 0.7 0.7 0.7 0.66 0.69 0.7 0.7 0.7 0.7 0.66 0.69 0.7 0.7 0.7 0.7 0.7 0.66 0.66 0.69 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7	0.59 0.60 0.63 0.64 0.66 0.65 0.68 0.68 0.6 0.61 0.59 0.59 0.59 0.6 0.65 0.66 0.65 0.	0.65 0.65 0.66 0.69 0.7 0.7 0.72 0.72 0.72 0.66 0.66 0.66 0.65 0.69 0.7 0.7 0.7 0.72 0.72 0.66 0.66 0.66 0.69 0.7 0.7 0.72 0.72 0.66 0.66 0.66 0.69 0.69 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7	0.67 0.66 0.69 0.7 0.7 0.7 0.71 0.72 0.72 0.67 0.67 0.67 0.66 0.66 0.66 0.69 0.7 0.71 0.72 0.72 0.72 0.72 0.72 0.73 0.69 0.69 0.7 0.69 0.7 0.69 0.69 0.7 0.69 0.69 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7	0.67 0.67 0.67 0.68 0.69 0.7 0.7 0.71 0.72 0.72 0.72 0.68 0.68 0.69 0.67 0.67 0.67 0.67 0.68 0.69 0.69 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7	0.69 0.7 0.7 0.7 0.71 0.71 0.72 0.72 0.73 0.74 0.74 0.74 0.71 0.71 0.71 0.79 0.79 0.70 0.70 0.71 0.71 0.71 0.71 0.71 0.71	0.72 0.72 0.73 0.73 0.74 0.74 0.75 0.76 0.76 0.76 0.76 0.74 0.72 0.72 0.73 0.74 0.74 0.74 0.75 0.76 0.77 0.72 0.73 0.74 0.74 0.75 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.77 0.77 0.77 0.77 0.77 0.77 0.77 0.77 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.77	0.73 0.75 0.75 0.76 0.77 0.78	0.72 0.73 0.73 0.74 0.74 0.75 0.76 0.76 0.76 0.76 0.77 0.72 0.72 0.72 0.73 0.74 0.74 0.74 0.74 0.76 0.76 0.76 0.76 0.76 0.76 0.77 0.72 0.72 0.73 0.74 0.74 0.74 0.74 0.74 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.77 0.77	0.67 0.67 0.67 0.67 0.68 0.7 0.7 0.7 0.71 0.72 0.72 0.68 0.69 0.67 0.67 0.67 0.69 0.69 0.67 0.67 0.69 0.67 0.69 0.70 0.68 0.68 0.69 0.6
1008 1009 1010 1011 1012 1013 1014 1101 1102 1103 1104 1105 1106 1107 1108 1109 1111 1111 1111 1111 1202 1203 1204 1205 1206	0.71 0.72 0.72 0.72 0.72 0.73 0.74 0.74 0.74 0.71 0.72 0.73 0.74 0.74 0.71 0.72 0.68 0.69 0.70 0.71 0.71 0.72 0.72 0.73 0.74 0.74 0.74 0.74 0.74 0.74 0.74 0.74	0.67 0.68 0.69 0.7 0.7 0.7 0.72 0.72 0.68 0.67 0.67 0.67 0.67 0.72 0.69 0.7 0.72 0.69 0.69 0.7 0.72 0.69 0.7 0.69 0.7 0.72 0.69 0.69 0.67 0.69 0.7 0.72 0.69 0.7 0.69 0.7 0.7 0.7 0.7 0.69 0.7 0.7 0.7 0.7 0.7 0.7 0.69 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7	0.66 0.67 0.69 0.7 0.7 0.7 0.71 0.72 0.72 0.67 0.66 0.67 0.66 0.67 0.66 0.67 0.71 0.72 0.72 0.72 0.66 0.67 0.66 0.67 0.71 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72	0.65 0.65 0.66 0.68 0.7 0.7 0.7 0.72 0.72 0.66 0.66 0.66 0.65 0.65 0.69 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.66 0.66	0.59 0.6 0.63 0.64 0.65 0.68 0.68 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6	0.65 0.65 0.66 0.68 0.69 0.7 0.7 0.72 0.72 0.72 0.66 0.66 0.66 0.65 0.65 0.65 0.66 0.66	0.67 0.66 0.66 0.69 0.7 0.71 0.72 0.72 0.67 0.67 0.69 0.69 0.7 0.67 0.67 0.69 0.7 0.7 0.67 0.69 0.69 0.7 0.7 0.67 0.69 0.69 0.7 0.67 0.67 0.69 0.69 0.7 0.7 0.7 0.67 0.67 0.67 0.67 0.67 0.69 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7	0.67 0.67 0.69 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.69 0.7 0.7 0.7 0.7 0.7 0.7 0.69 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.69 0.69 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7	0.69 0.7 0.7 0.71 0.71 0.72 0.72 0.73 0.73 0.74 0.74 0.74 0.71 0.71 0.71 0.71 0.71 0.71 0.71 0.71	0.72 0.73 0.74 0.74 0.75 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76	0.73 0.73 0.75 0.76 0.77 0.76 0.77 0.76 0.77 0.76 0.77 0.77 0.76 0.77 0.77 0.76 0.77 0.77 0.77 0.77 0.76 0.77 0.77 0.77 0.77 0.77 0.77 0.77 0.77 0.77 0.77 0.76 0.77	0.72 0.73 0.74 0.74 0.75 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76	0.67 0.67 0.67 0.67 0.68 0.7 0.7 0.7 0.71 0.72 0.72 0.69 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.68 0.69 0.69 0.69 0.69 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7
1008 1009 1010 1011 1011 1011 1011 1011	0.71 0.72 0.72 0.72 0.72 0.73 0.74 0.74 0.71 0.68 0.69 0.7 0.7 0.71 0.72 0.72 0.73 0.74 0.74 0.69 0.69 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7	0.67 0.68 0.7 0.7 0.7 0.7 0.72 0.72 0.68 0.67 0.67 0.68 0.7 0.72 0.68 0.67 0.68 0.7 0.72 0.68 0.67 0.69 0.7 0.71 0.72 0.68 0.69 0.7 0.71 0.72 0.68 0.69 0.7 0.71 0.72 0.68 0.67 0.67 0.67 0.68 0.7 0.72 0.72 0.68 0.67 0.67 0.67 0.67 0.67 0.67 0.67 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.68 0.69 0.7 0.71 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.67 0.67 0.67 0.68 0.69 0.7 0.72 0.72 0.72 0.72 0.72 0.67 0.67 0.67 0.67 0.68 0.69 0.7 0.72 0.72 0.67 0.67 0.67 0.67 0.68 0.69 0.7 0.72 0.72 0.67 0.67 0.67 0.67 0.67 0.68 0.69 0.7 0.72 0.72 0.67 0.67 0.67 0.67 0.67 0.67 0.67 0.67 0.72 0.72 0.67 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.67 0.67 0.67 0.67 0.72 0.73 0.73 0.73 0.74 0.75 0.7	0.66 0.67 0.69 0.71 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.67 0.67 0.67 0.67 0.67 0.67 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.7	0.65 0.66 0.69 0.7 0.7 0.7 0.72 0.74 0.66 0.70 0.7	0.59 0.6 0.6 0.62 0.64 0.65 0.68 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6	0.65 0.69 0.69 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.66 0.69 0.69 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7	0.67 0.66 0.66 0.67 0.70 0.71 0.72 0.72 0.72 0.72 0.73 0.74 0.75	0.67 0.67 0.67 0.88 0.7 0.7 0.7 0.72 0.72 0.72 0.72 0.72 0.	0.69 0.7 0.7 0.71 0.72 0.72 0.73 0.74 0.74 0.74 0.74 0.71 0.69 0.7 0.77 0.77 0.77 0.77 0.77 0.77 0.77	0.72 0.73 0.73 0.74 0.75 0.74 0.75 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76	0.73 0.75 0.75 0.75 0.76 0.75 0.76 0.75 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76	0.72 0.73 0.73 0.74 0.75 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76	0.67 0.67 0.67 0.67 0.67 0.68 0.69 0.7 0.7 0.71 0.72 0.22 0.68 0.69 0.69 0.7 0.7 0.71 0.72 0.69 0.67 0.67 0.67 0.69 0.69 0.69 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7
1008 1009 1009 1011 1012 1013 1014 1101 1102 1103 1104 1105 1106 1107 1108 1110 1110 1111 1112 1113 1114 1201 1202 1203 1204 1205 1206 1207 1208 1208 1208 1208 1208 1208 1208 1208	0.71 0.72 0.72 0.72 0.72 0.73 0.74 0.74 0.74 0.71 0.72 0.73 0.74 0.74 0.71 0.72 0.68 0.69 0.70 0.71 0.71 0.72 0.72 0.73 0.74 0.74 0.74 0.74 0.74 0.74 0.74 0.74	0.67 0.68 0.69 0.7 0.7 0.7 0.72 0.72 0.68 0.67 0.67 0.67 0.67 0.72 0.69 0.7 0.72 0.69 0.69 0.7 0.72 0.69 0.7 0.69 0.7 0.72 0.69 0.69 0.67 0.69 0.7 0.72 0.69 0.7 0.69 0.7 0.7 0.7 0.7 0.69 0.7 0.7 0.7 0.7 0.7 0.7 0.69 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7	0.66 0.67 0.69 0.7 0.7 0.7 0.71 0.72 0.72 0.67 0.66 0.67 0.66 0.67 0.66 0.67 0.71 0.72 0.72 0.72 0.66 0.67 0.66 0.67 0.71 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72	0.65 0.65 0.66 0.68 0.7 0.7 0.7 0.72 0.72 0.66 0.66 0.66 0.65 0.65 0.69 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.66 0.66	0.59 0.6 0.63 0.64 0.65 0.68 0.68 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6	0.65 0.65 0.66 0.68 0.69 0.7 0.7 0.72 0.72 0.72 0.66 0.66 0.66 0.65 0.65 0.65 0.66 0.66	0.67 0.66 0.66 0.69 0.7 0.71 0.72 0.72 0.67 0.67 0.69 0.69 0.7 0.67 0.67 0.69 0.7 0.7 0.67 0.69 0.69 0.7 0.7 0.67 0.69 0.69 0.7 0.67 0.67 0.69 0.69 0.7 0.7 0.7 0.67 0.67 0.67 0.67 0.67 0.69 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7	0.67 0.67 0.69 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.69 0.7 0.7 0.7 0.7 0.7 0.7 0.69 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.69 0.69 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7	0.69 0.7 0.7 0.71 0.71 0.72 0.72 0.73 0.73 0.74 0.74 0.74 0.71 0.71 0.71 0.71 0.71 0.71 0.71 0.71	0.72 0.73 0.74 0.74 0.75 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76	0.73 0.73 0.75 0.76 0.77 0.76 0.77 0.76 0.77 0.76 0.77 0.77 0.76 0.77 0.77 0.76 0.77 0.77 0.77 0.77 0.76 0.77 0.77 0.77 0.77 0.77 0.77 0.77 0.77 0.77 0.77 0.76 0.77	0.72 0.73 0.74 0.74 0.75 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76	0.67 0.67 0.67 0.67 0.68 0.7 0.7 0.7 0.71 0.72 0.72 0.69 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.68 0.69 0.69 0.69 0.69 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7

Dove Pond (Golf Course Pond) Water Accounting Record TWDB Evap Tab EVAP DATA SOURCE: https://waterdatfortexas.org/lake-evaporation-rainfall

Texas Water Development Board
Monthly lake surface evaporation in its in the

					nly lake surfac									
#QUAD	YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	ANNUAL
510	1954	1.52	4.47	5.36	6.19	4.86	9.58	11.25	11.21	9.06	5.86	3.78	3.06	76.20
510 510	1955	2.02	2.52	4.45	5.85	6.12	7.12 9.20	8.94 11.41	8.03	7.05	6.39	4.92	2.92 3.07	66.33
510	1956 1957	2.61	2.67 1.86	5.57 3.21	6.00 3.03	6.92 3.72	6.29	9.21	11.42 9.45	9.26 6.06	6.56 3.91	3.95 2.22	2.91	78.64 53.90
510	1958	2.00	2.08	2.66	4.07	4.81	7.66	9.46	8.42	5.31	3.71	3.44	2.19	55.81
510	1959	1.85	2.09	5.75	5.13	5.18	6.36	6.85	8.36	6.56	4.48	3.18	2.48	58.27
510	1960	1.87	2.56	3.46	5.40	6.29	7.72	7.70	7.35	6.99	4.54	3.54	1.86	59.28
510	1961	1.54	2.63	4.63	5.55	5.84	5.83	6.60	7.42	7.11	4.77	2.77	1.97	56.66
510	1962	1.61	3.48	4.59	4.22	6.95	5.59	7.59	8.05	5.19	4.60	2.74	1.87	56.48
510	1963	1.75	2.30	4.83	5.39	4.96	7.29	9.14	8.63	6.00	6.33	3.84	1.77	62.23
510	1964	2.28	2.36	4.25	4.82	4.75	7.68	10.18	8.31	5.92	4.54	2.93	2.35	60.37
510 510	1965 1966	2.35 1.54	2.22 1.83	2.92 4.48	4.89 4.81	3.49 4.28	6.41 6.62	9.03 7.82	7.93 6.33	7.11 4.24	4.21 4.58	2.66 4.01	1.77 2.18	54.99 52.72
510	1967	2.92	3.14	5.48	5.10	5.78	7.02	7.65	8.33	4.70	5.07	2.81	2.07	60.07
510	1968	1.03	1.93	3.28	4.09	4.33	5.78	6.96	7.77	5.63	4.87	3.20	2.58	51.45
510	1969	2.27	2.30	3.14	4.46	4.41	7.79	9.61	7.16	4.91	4.55	2.89	1.92	55.41
510	1970	1.41	2.33	2.97	4.09	4.91	6.54	8.25	8.54	5.51	4.07	3.68	3.26	55.56
510	1971	3.05	3.56	5.75	5.78	6.03	8.19	8.99	5.52	5.58	3.77	3.42	2.15	61.79
510	1972	1.88	2.84	5.11	5.78	5.11	7.30	8.17	7.60	5.67	4.78	2.65	1.69	58.58
510	1973	1.81	2.09	4.18	3.57	5.11	5.45	6.85	7.27	4.89	3.64	3.28	2.96	51.10
510 510	1974 1975	1.87 2.20	3.62 2.21	4.61 3.24	5.97 3.67	5.52	7.83 6.41	9.35 6.50	6.63	3.47	3.81 5.20	2.55 3.97	1.97 1.94	57.20
510	1975 1976	3.66	3.84	3.24 4.81	4.07	3.57 4.63	6.41	5.78	6.37 7.13	5.41 4.90	3.25	2.14	1.94 2.28	50.69 52.97
510	1976	1.62	2.92	4.81	4.07	4.63	7.27	9.13	7.13	7.78	5.13	3.34	3.53	61.19
510	1978	2.11	1.38	4.48	5.48	5.35	7.59	9.93	8.24	5.18	5.78	2.67	2.61	60.80
510	1979	2.03	1.74	3.67	4.16	4.30	6.55	7.26	6.55	6.02	6.43	2.85	1.97	53.53
510	1980	1.86	2.75	3.96	5.39	4.67	8.86	10.97	9.78	6.98	5.41	3.44	2.21	66.28
510	1981	1.91	2.17	4.02	4.67	4.98	5.44	8.13	7.80	5.74	3.49	3.29	2.32	53.96
510	1982	2.67	2.61	3.77	4.30	4.54	6.24	7.31	7.75	6.57	4.91	2.97	2.40	56.04
510	1983	1.69	1.95	3.60	5.28	5.08	5.89	7.63	6.90	6.54	4.82	3.64	1.62	54.64
510 510	1984	2.72 2.24	3.11	4.29	6.02 4.64	6.63	8.76	9.21	8.52	7.23	3.73	3.13	1.99 2.12	65.34
510	1985 1986	2.24	1.59 2.65	3.59 4.77	4.04	5.27 4.67	6.98 5.88	7.93 9.27	9.45 7.38	7.14 5.64	3.82 3.96	2.51 2.59	1.47	57.28 55.88
510	1987	1.96	2.05	3.50	5.81	4.47	5.64	7.65	8.94	5.69	5.79	3.05	2.17	56.72
510	1988	2.47	2.97	4.91	5.77	6.17	6.40	8.19	8.38	6.32	4.41	3.92	2.44	62.35
510	1989	1.98	2.19	3.70	5.28	5.21	5.98	7.11	6.90	5.95	5.91	3.93	3.20	57.34
510	1990	2.31	2.32	2.85	4.00	5.01	7.92	7.64	6.99	5.34	4.78	3.04	1.70	53.90
510	1991	1.56	2.39	4.54	4.34	4.67	6.11	8.94	7.86	5.37	5.98	2.83	1.95	56.54
510	1992	1.33	2.31	3.79	4.22	4.01	5.73	7.65	6.27	5.82	5.10	2.70	1.72	50.65
510	1993	1.64	2.14	3.29	4.36	5.02	6.63	11.23	10.45	7.69	4.89	2.77	2.36	62.47
510 510	1994 1995	1.97 2.05	2.20	3.62	4.63 4.22	3.98 4.18	6.75 6.07	7.80 7.51	7.74 6.95	4.77 5.08	3.93 5.78	2.56 3.48	1.49 2.82	51.68 53.65
510	1995	2.05	3.69	4.52	6.08	7.08	7.08	8.18	5.98	4.36	4.43	2.80	3.10	60.04
510	1997	2.68	2.29	3.63	4.21	4.50	5.89	7.83	7.26	6.72	4.65	2.73	2.72	55.11
510	1998	1.78	1.91	3.79	5.62	6.35	8.82	10.21	7.69	5.94	4.67	2.79	1.87	61.44
510	1999	2.93	3.08	3.33	5.34	5.26	5.92	8.10	9.69	7.01	5.65	3.71	3.07	62.97
510	2000	3.33	3.47	3.82	3.62	4.54	5.17	7.80	8.47	7.05	4.91	2.84	1.93	56.85
510	2001	2.13	2.32	2.69	4.26	5.38	6.76	8.70	7.68	4.76	4.53	3.25	2.22	54.68
510	2002	2.40	2.68	3.77	4.22	4.93	6.16	6.23	7.44	5.92	3.24	3.13	2.15	52.27
510 510	2003 2004	2.13 2.23	1.74 2.08	3.54 3.90	5.17 3.93	4.57 4.81	5.67 5.27	7.79 6.51	6.95 6.33	4.82 5.37	4.22 3.94	3.75 2.78	3.38 2.48	53.73 49.63
510	2004	2.23	2.08	3.90	4.95	4.81	6.57	7.15	6.21	6.94	5.32	4.50	3.07	49.63 57.21
510	2005	4.08	3.05	4.71	5.60	5.78	7.43	8.00	8.83	5.90	4.90	3.47	2.34	64.09
510	2007	1.69	2.91	3.58	4.03	3.88	5.29	5.26	6.49	4.77	4.76	3.41	2.29	48.36
510	2008	2.48	3.00	4.45	4.85	5.17	7.76	8.47	6.71	5.01	4.77	3.94	2.89	59.50
510	2009	2.51	3.59	4.44	5.04	4.42	6.96	7.54	7.85	4.46	3.46	2.97	2.21	55.45
510	2010	1.98	1.83	3.77	4.54	5.15	6.20	5.91	6.87	5.00	5.12	3.26	2.75	52.38
510	2011	2.04	2.33	4.66	6.29	5.64	9.04	10.21	10.77	7.74	5.15	3.51	1.99	69.37
510 510	2012 2013	2.84 3.04	2.55 3.21	3.08 5.09	4.36 4.92	5.95	6.77 7.32	7.98 7.89	7.93	6.15	4.68	4.28	3.45 1.97	60.02
510	2013	2.43	2.48	3.87	5.74	5.08 5.77	6.78	7.89	8.08 7.62	6.39 5.75	4.27 5.37	3.18 3.43	1.97	60.66 58.60
510	2015	2.43	2.49	3.48	4.39	4.06	6.53	8.22	7.02	6.11	5.39	3.52	2.66	56.46
510	2016	2.17	3.37	4.09	4.12	3.69	6.03	7.69	4.07	5.17	4.63	3.30	2.83	51.01
510	2017	2.96	3.51	3.97	4.44	5.06	6.06	9.05	6.22	4.92	4.97	3.05	2.30	56.63
510	2018	2.11	2.39	4.00	4.40	5.39	7.48	7.65	7.72	4.04	3.67	1.88	1.81	53.16
510	2019	1.76	1.75	2.98	2.69	2.78	3.65	5.97	6.96	5.90	4.58	2.30	2.21	43.18
510	2020	1.71	2.43	2.67	3.64	4.7	6.11	6.05	7.75	3.7	4.17	2.88	1.92	47.94
75th Percent	tile:	2.48	2.95	4.53	5.40	5.39	7.38	9.04	8.35	6.57	5.14	3.52	2.74	60.22



Jenna Rollins

From: Lindi Weber

Wednesday, February 16, 2022 12:03 PM Sent:

Jenna Rollins To: Cc: Sam Sewell

Subject: RE: Independence Water, LP & HW 2421 Land, LP - WRPERM 13823

Attachments: RFI Respone WRPERM 13823 CTR WAP.pdf

Jenna,

Please find the attached response to the request for additional information dated February 15, 2022.

Thanks, Lindi



FORT WORTH OFFICE

9800 Hillwood Parkway, Suite 250, Fort Worth, Texas 76177

[o] 817.562.3350 [c] 214.458.5757

www.pelotonland.com

TBPE Firm No. 12207 | TBPL3 Firm No. 10177700



February 16, 2022

Ms. Jenna Rollins
Project Manager, Water Rights Permitting Team
Water Rights Permitting and Availability Section
Texas Commission on Environmental Quality
12100 Park 35 Circle
Austin, Texas 78753

RE: Independence Water, L.P. and HW 2421 Land, L.P.
WRPERM 13823
CN605961523, CN605961556, RN111383410
Application No. 13823 for a Water Use Permit
Texas Administrative Code § 11.143 Requiring Limited Mailed Notice
Unnamed Tributary of Marshall Branch, Trinity River Basin
Tarrant County

Ms. Rollins,

On behalf of Independence Water, L.P. and HW 2421 Land, L.P., we provide the following response to your letter dated February 15, 2022.

Comment #1 – Provide information describing how this application addresses a water supply need in a manner that is consistent with the state water plan or the applicable approved regional water plan (Section 4.a. of the Technical Information Report).

 Section 4.a. of the Technical Information Report was changed to reflect the example language included in "Instructions for Completing the Water Rights Permitting Application, February 2022, Form TCEQ-10214A-inst. A copy of Section 4.a. from the Technical Information Report is included in Attachment A.

Comment #2 – Confirm the official name of the applicant is HW Land 2421, LP as provided in your most recent submittal. Staff notes that the official name in the Texas Secretary of State database is HW 2421 Land, L.P.

I confirm that the official name of the applicant is HW 2421 Land, L.P. Per our phone conversation
on February 16, 2022, you indicated that you do not need copies of the application reflecting the
correct name.

Feel free to contact me at the phone number below or via e-mail at lindi.weber@pelotonland.com if you have any questions or need additional information to process this request.

Sincerely,

Lindi Weber

Peloton Land Solutions Office: 817.562.3350

ATTACHMENT A

Section 4.a of the Technical Information Report

4. General Information, Response Required for all Water Right Applications (Instructions, Page 15)

a. Provide information describing how this application addresses a water supply need in a manner that is consistent with the state water plan or the applicable approved regional water plan for any area in which the proposed appropriation is located or, in the alternative, describe conditions that warrant a waiver of this requirement (not required for applications to use groundwater-based return flows). Include citations or page numbers for the State and Regional Water Plans, if applicable. Provide the information in the space below or submit a supplemental sheet entitled "Addendum Regarding the State and Regional Water Plans":

Applicant Independence Water, L.P. and HW 2421 Land, L.P. is located within the

Region C Planning Group. The applications is consistent with the 2022 State Water

Plan, which supports indirect reuse in a broad sense, identifying reuse "as valuable

and competitive water supply option in Texas". The state and regional water plans

generally do not address every possible change in individual water rights. The

application is consistent with the 2021 Region C Water Plan and the 2022 State Water Plan because there is nothing in the plans that conflict with the application.

- b. Did the Applicant perform its own Water Availability Analysis? Y / N N

 If the Applicant performed its own Water Availability Analysis, provide electronic copies of any modeling files and reports.
- C. Does the application include required Maps? (Instructions Page. 15) Y / N Y

 Project Location Maps are provided in Attachment 3

Jon Niermann, *Chairman*Emily Lindley, *Commissioner*Bobby Janecka, *Commissioner*Toby Baker, *Executive Director*



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

February 15, 2022

Ms. Lindi Weber Peloton Land Solutions 9800 Hillwood Parkway, Suite 250 Fort Worth, TX 76177 VIA E-MAIL

RE: Independence Water, L.P. and HW 2421 Land, L.P.
WRPERM 13823
CN605961523, CN605961556, RN111383410
Application No. 13823 for a Water Use Permit
Texas Water Code § 11.143, Requiring Limited Mailed Notice
Unnamed tributary of Marshall Branch, Trinity River Basin
Tarrant County

Dear Ms. Weber:

This acknowledges receipt, on January 24, 2022, of additional information and fees in the amount of \$606.56 (Receipt No. M211053, copy attached).

Additional information is required before the application can be declared administratively complete.

- 1. Provide information describing how this application addresses a water supply need in a manner that is consistent with the state water plan or the applicable approved regional water plan (Section 4.a. of the *Technical Information Report*). For examples, see page 15 of the Instructions for Completing the Water Right Permitting Application (Form TCEQ-10214A-inst).
- 2. Confirm the official name of the applicant is HW Land 2421, L.P as provided in your most recent submittal. Staff notes that the official name in the Texas Secretary of State Database is HW 2421 Land, L.P.

Staff notes additional information may be required prior to completion of technical review.

Please provide the requested information by March 17, 2022 or the application may be returned pursuant to Title 30 Texas Administrative Code § 281.18.

Ms. Lindi Weber Peloton Land Solutions Application No. 13823 February 15, 2022 Page 2 of 2

If you have any questions concerning this matter, please contact me via email at jenna.rollins@tceq.texas.gov or by telephone at (512) 239-1845.

Sincerely,

Jenna Rollins, Project Manager

Jenna L. Rollins

Water Rights Permitting Team

Water Rights Permitting and Availability Section

Attachment

CC: Sam Sewell

TCEQ 31-JAN-22 02:56 PM

TCEQ - A/R RECEIPT REPORT BY ACCOUNT NUMBER

Fee Description	Fee Code Account# Account Name	Ref#1 Ref#2 Paid In By	Check Number Card Auth. User Data	CC Type Tran Code Rec Code	Slip Key Document#	Tran Date	Tran Amount
WTR USE PERMITS	WUP WUP WATER USE PERMITS	M211053 13823 PELOTON LAND SOLUTIONS INC	19955 013122 RHDAVIS	CK	BS00092313 D2801778	31-JAN-22	-\$606.56
				Total	(Fee Code):		-\$606.56
				Grand Total	:		-\$105,008.63



Water Availability Division



January 24, 2022

Mr. Chris Kozlowski
Texas Commission on Environmental Quality
Water Availability Division, MC-160
12100 Park 35 Circle
Austin, Texas 78753

RE: Independence Water, LP and HW Land 2421, LP Application No. 13823 Water Use Permit

Mr. Kozlowski,

Per our conference call with the TCEQ team on January 20, 2022, we are re-submitting the Water Rights Permitting Application for applicants Independence Water, LP and HW Land 2421, LP. We have addressed the comments provided during the conference and those provided in the informal RFI request letter dated January 10, 2022. We have also included a check to cover the application fee of \$606.56.

Feel free to contact me at the phone number below or via e-mail at lindi.weber@pelotonland.com if you have any questions or need additional information to complete the review.

Sincerely,

Lindi Weber

Peloton Land Solutions Office: 817.562.3350

Enclosures:

1. Administrative Information Checklist, 2. Administrative Information Report, 3. Technical Information Report, and 4. Attachments 1 through 10, 5. Check for Application Fee

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

TCEQ WATER RIGHTS PERMITTING APPLICATION

ADMINISTRATIVE INFORMATION CHECKLIST

Complete and submit this checklist for each application. See Instructions Page. 5.

7/N	Y/N
Administrative Information Report	Worksheet 3.0
Additional Co-Applicant Information	Additional W.S 3.0 for each Point
Additional Co-Applicant Signature Pages	Recorded Deeds for Diversion Points
Written Evidence of Signature Authority	Consent For Diversion Access
Technical Information Report	Worksheet 4.0
USGS Map (or equivalent)	TPDES Permit(s)
Map Showing Project Details	WWTP Discharge Data
Original Photographs	24-hour Pump Test
Water Availability Analysis	Groundwater Well Permit
Worksheet 1.0	Signed Water Supply Contract
Recorded Deeds for Irrigated Land	Worksheet 4.1
Consent For Irrigation Land	Worksheet 5.0
Worksheet 1.1	Addendum to Worksheet 5.0
Addendum to Worksheet 1.1	Worksheet 6.0
Worksheet 1.2	Water Conservation Plan(s)
Addendum to Worksheet 1.2	Drought Contingency Plan(s)
Worksheet 2.0	Documentation of Adoption
Additional W.S 2.0 for Each Reservoir	Worksheet 7.0
Dam Safety Documents	Accounting Plan
Notice(s) to Governing Bodies	Worksheet 8.0
Recorded Deeds for Inundated Land	Fees
Consent For Inundation Land	

ADMINISTRATIVE INFORMATION REPORT

The following information is required for all new applications and amendments.

***Applicants are strongly encouraged to schedule a pre-application meeting with TCEQ Staff to discuss Applicant's needs prior to submitting an application. Call the Water Rights Permitting Team to schedule a meeting at (512) 239-4691.

1.	TYPE OF APPLICATION (Instructions, Page. 6)
Indic	ate, by marking X, next to the following authorizations you are seeking.
	New Appropriation of State Water
	Amendment to a Water Right *
	Bed and Banks
owner mate co-ov be record submaner	ou are seeking an amendment to an existing water rights authorization, you must be the er of record of the authorization. If the name of the Applicant in Section 2, does not the the name of the current owner(s) of record for the permit or certificate or if any of the wners is not included as an applicant in this amendment request, your application could sturned. If you or a co-applicant are a new owner, but ownership is not reflected in the rads of the TCEQ, submit a change of ownership request (Form TCEQ-10204) prior to nitting the application for an amendment. See Instructions page. 6. Please note that an adment application may be returned, and the Applicant may resubmit once the change of ership is complete.
	e summarize the authorizations or amendments you are seeking in the space below or h a narrative description entitled "Summary of Request."

2. APPLICANT INFORMATION (Instructions, Page. 6)

a.

Applicant							
Indicate the number of App (Include a copy of this secti							
What is the Full Legal Name	of the individu	ual or entity (applicant) applying for this permit?					
		e must be spelled exactly as filed with the Texas documents forming the entity.)					
You may search for your CN	on the TCEQ	th the TCEQ, what is the Customer Number (CN)? website at ccfm?fuseaction=cust.CustSearch					
CN :	(leav	ve blank if you do not yet have a CN).					
application is signed by an in	ndividual appl	r persons signing the application? Unless an licant, the person or persons must submit written airements in $30\ TAC\ \S\ 295.14$.					
First/Last Name:							
Title:							
Have you provided writte 295.14, as an attachment		eeting the signatory requirements in 30 TAC § ration?					
What is the applicant's maili may verify the address on the https://tools.usps.com/go/Z	ie USPS websit						
Name:							
Mailing Address:							
City:	State:	ZIP Code:					
Indicate an X next to the typ	e of Applicant	t:					
Individual	Sole Pro	prietorship-D.B.A.					
Partnership	Corpora						
Trust	Estate						
Federal Government	State Go	overnment					
County Government							
Other Government	_						
For Corporations or Limited State Franchise Tax ID Numb	Partnerships,	provide:					

2. APPLICANT INFORMATION (Instructions, Page. 6)

a.

Applicant			
Indicate the number of Appli (Include a copy of this sectio	cants/Co-Applican n for each Co-Appl	ts 2 licant, if any)	
What is the Full Legal Name of	${f f}$ the individual or ${f e}$	entity (applicant) applying	for this permit?
HW Land 2421, L.P.			
(If the Applicant is an entity, the Secretary of State, County, or			with the Texas
If the applicant is currently a You may search for your CN o http://www15.tceq.texas.gov/	n the TCEQ website	e at	
CN:	(leave blank	k if you do not yet have a	CN).
What is the name and title of application is signed by an incevidence that they meet the si	lividual applicant, t	the person or persons mus	
First/Last Name: L. Russel	l Laughlin		
Title: Execuitve Vice Presi	dent		
Have you provided written 295.14, as an attachment t	evidence meeting t o this application?	the signatory requirement Please see Attachment 2	s in 30 TAC §
What is the applicant's mailing may verify the address on the https://tools.usps.com/go/Zip	USPS website at	•	rice (USPS)? You
Name: HW Land 2421, L.F).		
Mailing Address: 9800 Hil	wood Pkwy, # 300		
City: Fort Worth		ZIP Code: 76177	
Indicate an X next to the type	of Applicant:		
Individual	Sole Proprietor	ship-D.B.A.	
X_Partnership	Corporation		
Trust	Estate		
Federal Government	State Governm	ent	
County Government	City Governme	nt	
Other Government	Other		
For Corporations or Limited P State Franchise Tax ID Numbe	artnerships, provid r <mark>3203849015</mark> SOS	e: Charter (filing) Number: ₋	0801061397

3. APPLICATION CONTACT INFORMATION (Instructions, Page. 9)

If the TCEQ needs additional information during the review of the application, who should be contacted? Applicant may submit their own contact information if Applicant wishes to be the point of contact.

First and Last Name:			
Title:			
Organization Name:			
Mailing Address:			
City:	State:		ZIP Code:
Phone No.:		Extension:	
Fax No.:		E-mail	

4. WATER RIGHT CONSOLIDATED CONTACT INFORMATION (Instructions, Page. 9)

I/We authorize all future notices be received on my/our behalf at the following:

This section applies only if there are multiple Owners of the same authorization. Unless otherwise requested, Co-Owners will each receive future correspondence from the Commission regarding this water right (after a permit has been issued), such as notices and water use reports. Multiple copies will be sent to the same address if Co-Owners share the same address. Complete this section if there will be multiple owners and all owners agree to let one owner receive correspondence from the Commission. Leave this section blank if you would like all future notices to be sent to the address of each of the applicants listed in section 2 above.

First and Last Name:		
Title:		
Organization Name:		
Mailing Address:		
City:	State:	ZIP Code:
Phone No.:	Extens	sion:
Fax No.:	E-mail	Address:

5. MISCELLANEOUS INFORMATION (Instructions, Page. 9)

- a. The application will not be processed unless all delinquent fees and/or penalties owed to the TCEQ or the Office of the Attorney General on behalf of the TCEQ are paid in accordance with the Delinquent Fee and Penalty Protocol by all applicants/co-applicants. If you need assistance determining whether you owe delinquent penalties or fees, please call the Water Rights Permitting Team at (512) 239-4691, prior to submitting your application.
 - 1. Does Applicant or Co-Applicant owe any fees to the TCEQ? Yes / No

If **yes**, provide the following information: Account number:

Amount past due:

2. Does Applicant or Co-Applicant owe any penalties to the TCEQ? Yes / No

If **yes**, please provide the following information:

Enforcement order number:

Amount past due:

b. If the Applicant is a taxable entity (corporation or limited partnership), the Applicant must be in good standing with the Comptroller or the right of the entity to transact business in the State may be forfeited. See Texas Tax Code, Subchapter F. Applicant's may check their status with the Comptroller at https://mycpa.cpa.state.tx.us/coa/

Is the Applicant or Co-Applicant in good standing with the Comptroller? Yes / No

c. The commission will not grant an application for a water right unless the applicant has submitted all Texas Water Development Board (TWDB) surveys of groundwater and surface water use – if required. See TWC §16.012(m) and 30 TAC § 297.41(a)(5).

Applicant has submitted all required TWDB surveys of groundwater and surface water? Yes / No

6.	SIGNATURE	PAGE	(Instructions,	Page.	11)
----	------------------	------	----------------	-------	-----

Applicant:		
_{I.} L. Russell Laughlin	Execuitve Vice President	
(Typed or printed name)	(Title)	

certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

I further certify that I am authorized under Title 30 Texas Administrative Code §295.14 to sign and submit this document and I have submitted written evidence of my signature authority.

Signature: (Use blue ink)		Date:	
Subscribed and Sworn to before	me by the day of	November, 2021.	
My commission expires on the_	17	day of October, 2023.	

Notary Public

Tarrant County, Texas Notary ID 124717681

If the Application includes Co-Applicants, each Applicant and Co-Applicant must submit an original, separate signature page

TECHNICAL INFORMATION REPORT WATER RIGHTS PERMITTING

This Report is required for applications for new or amended water rights. Based on the Applicant's responses below, Applicants are directed to submit additional Worksheets (provided herein). A completed Administrative Information Report is also required for each application.

Applicants are strongly encouraged to	schedule a pre-a	pplication meeting with	h TCEQ
Permitting Staff to discuss Applicant's	needs and to con	firm information nece	ssary for an
application prior to submitting such a	pplication. Please	call Water Availability	Division at
(512) 239-4691 to schedule a meeting.	Applicant attende	ed a pre-application med	eting with TCEQ
Staff for this Application? Y/N	(If yes, date :).	J

1. New or Additional Appropriations of State Water. Texas Water Code (TWC) § 11.121 (Instructions, Page. 12)

State Water is: The water of the ordinary flow, underflow, and tides of every flowing river, natural stream, and lake, and of every bay or arm of the Gulf of Mexico, and the storm water, floodwater, and rainwater of every river, natural stream, canyon, ravine, depression, and watershed in the state. TWC § 11.021.

- a. Applicant requests a new appropriation (diversion or impoundment) of State Water? Y / N
- Applicant requests an amendment to an existing water right requesting an increase in the appropriation of State Water or an increase of the overall or maximum combined diversion rate? Y / N (If yes, indicate the Certificate or Permit number:_____)

If Applicant answered yes to (a) or (b) above, does Applicant also wish to be considered for a term permit pursuant to TWC \S 11.1381? Y/N

c. Applicant requests to extend an existing Term authorization or to make the right permanent? Y / N (If yes, indicate the Term Certificate or Permit number:_____)

If Applicant answered yes to (a), (b) or (c), the following worksheets and documents are required:

- Worksheet 1.0 Quantity, Purpose, and Place of Use Information Worksheet
- Worksheet 2.0 Impoundment/Dam Information Worksheet (submit one worksheet for each impoundment or reservoir requested in the application)
- **Worksheet 3.0 Diversion Point Information Worksheet** (submit one worksheet for each diversion point and/or one worksheet for the upstream limit and one worksheet for the downstream limit of each diversion reach requested in the application)
- Worksheet 5.0 Environmental Information Worksheet
- Worksheet 6.0 Water Conservation Information Worksheet
- Worksheet 7.0 Accounting Plan Information Worksheet
- Worksheet 8.0 Calculation of Fees
- Fees calculated on Worksheet 8.0 see instructions Page. 34.
- Maps See instructions Page. 15.
- **Photographs** See instructions **Page. 30**.

Additionally, if Applicant wishes to submit an alternate source of water for the project/authorization, see Section 3, Page 3 for Bed and Banks Authorizations (Alternate sources may include groundwater, imported water, contract water or other sources).

Additional Documents and Worksheets may be required (see within).

2. Amendments to Water Rights. TWC § 11.122 (Instructions, Page. 12)

This section should be completed if Applicant owns an existing water right and Applicant requests to amend the water right. *If Applicant is not currently the Owner of Record in the TCEQ Records, Applicant must submit a Change of Ownership Application (TCEQ-10204) prior to submitting the amendment Application or provide consent from the current owner to make the requested amendment.* See instructions page. 6.

Water Right (Certificate or Permit) number you a	re requesting to amend:
Applicant requests to sever and combine existing Certificates into another Permit or Certificate? Y	9
List of water rights to sever	Combine into this ONE water right

a. Applicant requests an amendment to an existing water right to increase the amount of the appropriation of State Water (diversion and/or impoundment)? Y / N

If yes, application is a new appropriation for the increased amount, complete **Section 1 of this Report (PAGE. 1) regarding New or Additional Appropriations of State Water**.

b. Applicant requests to amend existing Term authorization to extend the term or make the water right permanent (remove conditions restricting water right to a term of years)? Y / N

If yes, application is a new appropriation for the entire amount, complete **Section 1 of this Report (PAGE. 1) regarding New or Additional Appropriations of State Water.**

- c. Applicant requests an amendment to change the purpose or place of use or to add an additional purpose or place of use to an existing Permit or Certificate? \mathbf{Y} / \mathbf{N} If yes, submit:
 - Worksheet 1.0 Quantity, Purpose, and Place of Use Information Worksheet
 - Worksheet 1.2 Notice: "Marshall Criteria"
- d. Applicant requests to change: diversion point(s); or reach(es); or diversion rate? Y / N

If yes, submit: **Worksheet 3.0 - Diversion Point Information Worksheet** (submit one worksheet for each diversion point or one worksheet for the upstream limit and one worksheet for the downstream limit of each diversion reach)

e. Applicant requests amendment to add or modify an impoundment, reservoir, or dam? Y / N

If yes, submit: **Worksheet 2.0 - Impoundment/Dam Information Worksheet** (submit one worksheet for each impoundment or reservoir)

- - autionally, all amenaments require.
 - Worksheet 8.0 Calculation of Fees; and Fees calculated see instructions Page.34
 - Maps See instructions Page. 15.
 - Additional Documents and Worksheets may be required (see within).

3. Bed and Banks. TWC § 11.042 (Instructions, Page 13)

a. Pursuant to contract, Applicant requests authorization to convey, stored or conserved water to the place of use or diversion point of purchaser(s) using the bed and banks of a watercourse? TWC § 11.042(a). Y/N

If yes, submit a signed copy of the Water Supply Contract pursuant to 30 TAC §§ 295.101 and 297.101. Further, if the underlying Permit or Authorization upon which the Contract is based does not authorize Purchaser's requested Quantity, Purpose or Place of Use, or Purchaser's diversion point(s), then either:

- 1. Purchaser must submit the worksheets required under Section 1 above with the Contract Water identified as an alternate source; or
- 2. Seller must amend its underlying water right under Section 2.
- b. Applicant requests to convey water imported into the state from a source located wholly outside the state using the bed and banks of a watercourse? TWC § 11.042(a-1). Y / N

If yes, submit: worksheets 1.0, 2.0, 3.0, 4.0, 5.0, 7.0, 8.0, Maps and fees from the list below.

c. Applicant requests to convey Applicant's own return flows derived from privately owned groundwater using the bed and banks of a watercourse? TWC § 11.042(b). Y / N

If yes, submit: worksheets 1.0, 2.0, 3.0, 4.0, 5.0, 7.0, 8.0, Maps, and fees from the list below.

d. Applicant requests to convey Applicant's own return flows derived from surface water using the bed and banks of a watercourse? TWC § 11.042(c). Y / N

If yes, submit: worksheets 1.0, 2.0, 3.0, 4.0, 5.0, 6.0, 7.0, 8.0, Maps, and fees from the list below.

*Please note, if Applicant requests the reuse of return flows belonging to others, the Applicant will need to submit the worksheets and documents under Section 1 above, as the application will be treated as a new appropriation subject to termination upon direct or indirect reuse by the return flow discharger/owner.

e. Applicant requests to convey water from any other source, other than (a)-(d) above, using the bed and banks of a watercourse? TWC § 11.042(c). Y/N

If yes, submit: worksheets 1.0, 2.0, 3.0, 4.0, 5.0, 7.0, 8.0, Maps, and fees from the list below. Worksheets and information:

- Worksheet 1.0 Quantity, Purpose, and Place of Use Information Worksheet
- Worksheet 2.0 Impoundment/Dam Information Worksheet (submit one worksheet for each impoundment or reservoir owned by the applicant through which water will be conveyed or diverted)
- **Worksheet 3.0 Diversion Point Information Worksheet** (submit one worksheet for the downstream limit of each diversion reach for the proposed conveyances)
- Worksheet 4.0 Discharge Information Worksheet (for each discharge point)
- Worksheet 5.0 Environmental Information Worksheet
- Worksheet 6.0 Water Conservation Information Worksheet
- Worksheet 7.0 Accounting Plan Information Worksheet
- Worksheet 8.0 Calculation of Fees; and Fees calculated see instructions Page. 34
- Maps See instructions Page. 15.
- Additional Documents and Worksheets may be required (see within).

4. General Information, Response Required for all Water Right Applications (Instructions, Page 15)

a.	Provide information describing how this application addresses a water supply need in a manner that is consistent with the state water plan or the applicable approved regional water plan for any area in which the proposed appropriation is located or, in the alternative, describe conditions that warrant a waiver of this requirement (not required for applications to use groundwater-based return flows). Include citations or page numbers for the State and Regional Water Plans, if applicable. Provide the information in the space below or submit a supplemental sheet entitled "Addendum Regarding the State and Regional Water Plans":			
b.	Did the Applicant perform its own Water Availability Analysis? Y / N			
	If the Applicant performed its own Water Availability Analysis, provide electronic copies of any modeling files and reports.			
c.	Does the application include required Maps? (Instructions Page. 15) Y / N Project Location Maps are provided in Attachment 3			

WORKSHEET 1.0 Quantity, Purpose and Place of Use

1. New Authorizations (Instructions, Page. 16)

Submit the following information regarding quantity, purpose and place of use for requests for new or additional appropriations of State Water or Bed and Banks authorizations:

Quantity (acrefeet) (Include losses for Bed and Banks)	State Water Source (River Basin) or Alternate Source *each alternate source (and new appropriation based on return flows of others) also requires completion of Worksheet 4.0	Purpose(s) of Use	Place(s) of Use *requests to move state water out of basin also require completion of Worksheet 1.1 Interbasin Transfer

_____Total amount of water (in acre-feet) to be used annually (*include losses for Bed and Banks applications*)

If the Purpose of Use is Agricultural/Irrigation for any amount of water, provide:

1.	Location	Information	Regarding	the	Lands to	be	Irrigated
----	----------	-------------	-----------	-----	----------	----	-----------

1)	Applicant proposes to irrigate a tota			any one year. In		
	all of or part of a larger tract(s) wh			supplement atta	ched to	this
	application and contains a total of _		acres in _		County,	TX.
ii)	Location of land to be irrigated:	In th	e	Original	Survey	No.
	A le atrea at NTa					

A copy of the deed(s) or other acceptable instrument describing the overall tract(s) with the recording information from the county records must be submitted. Applicant's name must match deeds.

If the Applicant is not currently the sole owner of the lands to be irrigated, Applicant must submit documentation evidencing consent or other documentation supporting Applicant's right to use the land described. See Attachments 4 and 5

Water Rights for Irrigation may be appurtenant to the land irrigated and convey with the land unless reserved in the conveyance. 30 TAC § 297.81.

2. Amendments - Purpose or Place of Use (Instructions, Page. 12)

a. Complete this section for each requested amendment changing, adding, or removing Purpose(s) or Place(s) of Use, complete the following:

Quantity (acre- feet)	Existing Purpose(s) of Use	Proposed Purpose(s) of Use*	Existing Place(s) of Use	Proposed Place(s) of Use**

^{*}If the request is to add additional purpose(s) of use, include the existing and new purposes of use under "Proposed Purpose(s) of Use."

Changes to the purpose of use in the Rio Grande Basin may require conversion. 30 TAC § 303.43.

b. For any request which adds Agricultural purpose of use or changes the place of use for

Agricultural rights, provide the follow irrigated:	ving location i	nformation reg	arding the lands to be
i) Applicant proposes to irrigate a tot all of or part of a larger tract(s) w application and contains a total	hich is descri	bed in a suppl	
County, TX. ii) Location of land to be irrigated:	In the		Original Survey No
, Abstract No			,

A copy of the deed(s) describing the overall tract(s) with the recording information from the county records must be submitted. Applicant's name must match deeds. If the Applicant is not currently the sole owner of the lands to be irrigated, Applicant must submit documentation evidencing consent or other legal right for Applicant to use the land described.

Water Rights for Irrigation may be appurtenant to the land irrigated and convey with the land unless reserved in the conveyance. 30 TAC § 297.81.

- c. Submit Worksheet 1.1, Interbasin Transfers, for any request to change the place of use which moves State Water to another river basin.
- d. See Worksheet 1.2, Marshall Criteria, and submit if required.
- e. See Worksheet 6.0, Water Conservation/Drought Contingency, and submit if required.

^{**}If the request is to add additional place(s) of use, include the existing and new places of use under "Proposed Place(s) of Use."

WORKSHEET 1.1 INTERBASIN TRANSFERS, TWC § 11.085

Submit this worksheet for an application for a new or amended water right which requests to transfer State Water from its river basin of origin to use in a different river basin. A river basin is defined and designated by the Texas Water Development Board by rule pursuant to TWC § 16.051.

Applicant requests to transfer State Water to another river basin within the State? Y / N NO

Interhasin Transfer Doquest (Instructions Dage 20)

T.	mierbasiii fransier kequest (iiistructions, rage. 20)
	a. Provide the Basin of Origin
	b. Provide the quantity of water to be transferred (acre-feet)
	c. Provide the Basin(s) and count(y/ies) where use will occur in the space below:

2. Exemptions (Instructions, Page. 20), TWC § 11.085(v)

Certain interbasin transfers are exempt from further requirements. Answer the following:

- a. The proposed transfer, which in combination with any existing transfers, totals less than 3,000 acre-feet of water per annum from the same water right. **Y/N**
- b. The proposed transfer is from a basin to an adjoining coastal basin? Y/N
- c. The proposed transfer from the part of the geographic area of a county or municipality, or the part of the retail service area of a retail public utility as defined by Section 13.002, that is within the basin of origin for use in that part of the geographic area of the county or municipality, or that contiguous part of the retail service area of the utility, not within the basin of origin? Y/N
- d. The proposed transfer is for water that is imported from a source located wholly outside the boundaries of Texas, except water that is imported from a source located in the United Mexican States? Y/N

3. Interbasin Transfer Requirements (Instructions, Page. 20)

For each Interbasin Transfer request that is not exempt under any of the exemptions listed above Section 2, provide the following information in a supplemental attachment titled "Addendum to Worksheet 1.1, Interbasin Transfer":

- a. the contract price of the water to be transferred (if applicable) (also include a copy of the contract or adopted rate for contract water);
- b. a statement of each general category of proposed use of the water to be transferred and a detailed description of the proposed uses and users under each category;
- c. the cost of diverting, conveying, distributing, and supplying the water to, and treating the water for, the proposed users (example expert plans and/or reports documents may be provided to show the cost);

- d. describe the need for the water in the basin of origin and in the proposed receiving basin based on the period for which the water supply is requested, but not to exceed 50 years (the need can be identified in the most recently approved regional water plans. The state and regional water plans are available for download at this website: (http://www.twdb.texas.gov/waterplanning/swp/index.asp);
- e. address the factors identified in the applicable most recently approved regional water plans which address the following:
 - (i) the availability of feasible and practicable alternative supplies in the receiving basin to the water proposed for transfer;
 - (ii) the amount and purposes of use in the receiving basin for which water is needed;
 - (iii) proposed methods and efforts by the receiving basin to avoid waste and implement water conservation and drought contingency measures;
 - (iv) proposed methods and efforts by the receiving basin to put the water proposed for transfer to beneficial use;
 - (v) the projected economic impact that is reasonably expected to occur in each basin as a result of the transfer; and
 - (vi) the projected impacts of the proposed transfer that are reasonably expected to occur on existing water rights, instream uses, water quality, aquatic and riparian habitat, and bays and estuaries that must be assessed under Sections 11.147, 11.150, and 11.152 in each basin (*if applicable*). If the water sought to be transferred is currently authorized to be used under an existing permit, certified filing, or certificate of adjudication, such impacts shall only be considered in relation to that portion of the permit, certified filing, or certificate of adjudication proposed for transfer and shall be based on historical uses of the permit, certified filing, or certificate of adjudication for which amendment is sought;
- (f) proposed mitigation or compensation, if any, to the basin of origin by the applicant; and
- (g) the continued need to use the water for the purposes authorized under the existing Permit, Certified Filing, or Certificate of Adjudication, if an amendment to an existing water right is sought.

WORKSHEET 1.2 NOTICE. "THE MARSHALL CRITERIA"

This worksheet assists the Commission in determining notice required for certain **amendments** that do not already have a specific notice requirement in a rule for that type of amendment, and *that do not change the amount of water to be taken or the diversion rate*. The worksheet provides information that Applicant **is required** to submit for such amendments which include changes in use, changes in place of use, or other non-substantive changes in a water right (such as certain amendments to special conditions or changes to off-channel storage). These criteria address whether the proposed amendment will impact other water right holders or the onstream environment beyond and irrespective of the fact that the water right can be used to its full authorized amount.

This worksheet is **not required for Applications in the Rio Grande Basin** requesting changes in the purpose of use, rate of diversion, point of diversion, and place of use for water rights held in and transferred within and between the mainstems of the Lower Rio Grande, Middle Rio Grande, and Amistad Reservoir. See 30 TAC § 303.42.

This worksheet is **not required for amendments which are only changing or adding diversion points, or request only a bed and banks authorization or an IBT authorization**. However, Applicants may wish to submit the Marshall Criteria to ensure that the administrative record includes information supporting each of these criteria

1. The "Marshall Criteria" (Instructions, Page. 21)

Submit responses on a supplemental attachment titled "Marshall Criteria" in a manner that conforms to the paragraphs (a) – (g) below:

- a. <u>Administrative Requirements and Fees.</u> Confirm whether application meets the administrative requirements for an amendment to a water use permit pursuant to TWC Chapter 11 and Title 30 Texas Administrative Code (TAC) Chapters 281, 295, and 297. An amendment application should include, but is not limited to, a sworn application, maps, completed conservation plan, fees, etc.
- b. <u>Beneficial Use.</u> Discuss how proposed amendment is a beneficial use of the water as defined in TWC § 11.002 and listed in TWC § 11.023. Identify the specific proposed use of the water (e.g., road construction, hydrostatic testing, etc.) for which the amendment is requested.
- c. <u>Public Welfare</u>. Explain how proposed amendment is not detrimental to the public welfare. Consider any public welfare matters that might be relevant to a decision on the application. Examples could include concerns related to the well-being of humans and the environment.
- d. <u>Groundwater Effects.</u> Discuss effects of proposed amendment on groundwater or groundwater recharge.

- e. <u>State Water Plan.</u> Describe how proposed amendment addresses a water supply need in a manner that is consistent with the state water plan or the applicable approved regional water plan for any area in which the proposed appropriation is located or, in the alternative, describe conditions that warrant a waiver of this requirement. The state and regional water plans are available for download at: http://www.twdb.texas.gov/waterplanning/swp/index.asp.
- f. <u>Waste Avoidance.</u> Provide evidence that reasonable diligence will be used to avoid waste and achieve water conservation as defined in TWC § 11.002. Examples of evidence could include, but are not limited to, a water conservation plan or, if required, a drought contingency plan, meeting the requirements of 30 TAC Chapter 288.
- g. <u>Impacts on Water Rights or On-stream Environment</u>. Explain how proposed amendment will not impact other water right holders or the on-stream environment beyond and irrespective of the fact that the water right can be used to its full authorized amount.

WORKSHEET 2.0 Impoundment/Dam Information

This worksheet **is required** for any impoundment, reservoir and/or dam. Submit an additional Worksheet 2.0 for each impoundment or reservoir requested in this application.

If there is more than one structure, the numbering/naming of structures should be consistent throughout the application and on any supplemental documents (e.g. maps).

1.

	Storage Information (Instructions, Page. 21)				
a.	Official USGS name of reservoir, if applicable:				
b.	Provide amount of water (in acre-feet) impounded by structure at normal maximum operating level:				
c.	The impoundment is on-channel or off-channel (mark one)				
	 Applicant has verified on-channel or off-channel determination by contacting Surface Water Availability Team at (512) 239-4691? Y / N 				
	2. If on-channel, will the structure have the ability to pass all State Water inflows that Applicant does not have authorization to impound? Y / N				
d.	Is the impoundment structure already constructed? Y/N				
	i. For already constructed on-channel structures:				
	Date of Construction:				
	2. Was it constructed to be an exempt structure under TWC § 11.142? Y/N a. If Yes, is Applicant requesting to proceed under TWC § 11.143? Y/N b. If No, has the structure been issued a notice of violation by TCEQ? Y/N				
	3. Is it a U.S. Natural Resources Conservation Service (NRCS) (formerly Soil Conservation Service (SCS)) floodwater-retarding structure? Y/N a. If yes, provide the Site Noand watershed project name; b. Authorization to close "ports" in the service spillway requested? Y/N				
	ii. For any proposed new structures or modifications to structures:				
	 Applicant must contact TCEQ Dam Safety Section at (512) 239-0326, prior to submitting an Application. Applicant has contacted the TCEQ Dam Safety Section regarding the submission requirements of 30 TAC, Ch. 299? Y / N Provide the date and the name of the Staff Person 				
	2. As a result of Applicant's consultation with the TCEQ Dam Safety Section, TCEQ				

a. No additional dam safety documents required with the Application. Y / N

d. Engineer's statement that structure complies with 30 TAC, Ch. 299 Rules

b. Plans (with engineer's seal) for the structure required. Y / N

c. Engineer's signed and sealed hazard classification required. Y/N

required. Y/N

			body of each county and municipality in which the reservoir, or any part of the reservoir to be constructed, will be located. (30 TAC § 295.42). Applicant must submit a copy of all the notices and certified mailing cards with this Application. Notices and cards are included? Y / N
	iii.	Ad	ditional information required for on-channel storage:
		1.	Surface area (in acres) of on-channel reservoir at normal maximum operating level:
		2.	Based on the Application information provided, Staff will calculate the drainage area above the on-channel dam or reservoir. If Applicant wishes to also calculate the drainage area they may do so at their option. Applicant has calculated the drainage area. Y/N If yes, the drainage area is sq. miles. (If assistance is needed, call the Surface Water Availability Team prior to submitting the application, (512) 239-4691).
2.	Struc	tu	re Location (Instructions, Page. 23)
a.	On Wat	erc	ourse (if on-channel) (USGS name):
			Original Survey No, Abstract,, County, Texas.
	* A co submi inund	tte	of the deed(s) with the recording information from the county records must be d describing the tract(s) that include the structure and all lands to be d.
	or will docun right t	l be ien to u	pplicant is not currently the sole owner of the land on which the structure is built and sole owner of all lands to be inundated, Applicant must submit tation evidencing consent or other documentation supporting Applicant's see the land described. Tanty Deed for tract is included in Attachment 4. Consent Letter for Use of Land is included in Attachment 5.
d.	A poin (off-ch	t o ani	n the centerline of the dam (on-channel) or anywhere within the impoundment nel) is:
	Latituo	de	°N, Longitude°W.
	*Provi		Latitude and Longitude coordinates in decimal degrees to at least six decimal
di.	Indicat Mappi	te t ng	he method used to calculate the location (examples: Handheld GPS Device, GIS, Program):
dii.			nitted which clearly identifies the Impoundment, dam (where applicable), and the se inundated. See instructions Page. 15. Y / N

3. Applicants **shall** give notice by certified mail to each member of the governing

WORKSHEET 3.0 DIVERSION POINT (OR DIVERSION REACH) INFORMATION

This worksheet **is required** for each diversion point or diversion reach. Submit one Worksheet 3.0 for **each** diversion point and two Worksheets for **each** diversion reach (one for the upstream limit and one for the downstream limit of each diversion reach).

The numbering of any points or reach limits should be consistent throughout the application and on supplemental documents (e.g. maps).

1.	Diver	sion Information (Instructions, Page. 2	4)
a.	This Wo	orksheet is to add new (select 1 of 3 below):	
	2	Diversion Point No. Upstream Limit of Diversion Reach No. Downstream Limit of Diversion Reach No	
b.	o. Maximum Rate of Diversion for this new point cfs (cubic feet per second) or gpm (gallons per minute)		
C.	If yes, s	is point share a diversion rate with other points? "ubmit Maximum Combined Rate of Diversion for a general	
d.	For ame	endments, is Applicant seeking to increase combin	ed diversion rate? Y/N
		crease in diversion rate is considered a new appropion of Section 1, New or Additional Appropriation of	
e.	Check (v) the appropriate box to indicate diversion location on location is existing or proposed):	on and indicate whether the
	Check one	<u> </u>	Write: Existing or Proposed
		Directly from stream	
		From an on-channel reservoir	
		110m dir on chamici reservon	
		From a stream to an on-channel reservoir	

Diversion Location (Instructions, Page 25) a. On watercourse (USGS name): b. Zip Code: c. Location of point: In the ______Original Survey No. _____, Abstract No._____, ____County, Texas. A copy of the deed(s) with the recording information from the county records must be submitted describing tract(s) that include the diversion structure. For diversion reaches, the Commission cannot grant an Applicant access to property that the Applicant does not own or have consent or a legal right to access, the Applicant will be required to provide deeds, or consent, or other documents supporting a legal right to use the specific points when specific diversion points within the reach are utilized. Other documents may include, but are not limited to: a recorded easement, a land lease, a contract, or a citation to the Applicant's right to exercise eminent domain to acquire access. See Attachments 4 and 5 d. Point is at: °N, Longitude Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places e. Indicate the method used to calculate the location (examples: Handheld GPS Device, GIS, Mapping Program): f. Map submitted must clearly identify each diversion point and/or reach. See instructions Page. 38. g. If the Plan of Diversion is complicated and not readily discernable from looking at the map, attach additional sheets that fully explain the plan of diversion.

2.

WORKSHEET 4.0 DISCHARGE INFORMATION

This worksheet required for any requested authorization to discharge water into a State Watercourse for conveyance and later withdrawal or in-place use. Worksheet 4.1 is also required for each Discharge point location requested. **Instructions Page. 26.** *Applicant is responsible for obtaining any separate water quality authorizations which may be required and for insuring compliance with TWC*, *Chapter 26 or any other applicable law*.

a.	The purpose of use for the water being discharged will be
b.	Provide the amount of water that will be lost to transportation, evaporation, seepage, channe or other associated carriage losses% and explain the method of calculation:
	Is the source of the discharged water return flows? $ Y / N $ If yes, provide the following information:
	1. The TPDES Permit Number(s) (attach a copy of the current TPDES permit(s))
	2. Applicant is the owner/holder of each TPDES permit listed above? Y/N
su ap	EASE NOTE: If Applicant is not the discharger of the return flows, the application should be bmitted under Section 1, New or Additional Appropriation of State Water, as a request for a new propriation of state water. If Applicant is the discharger, then the application should be bmitted under Section 3, Bed and Banks.
	3. Monthly WWTP discharge data for the past 5 years in electronic format. (Attach and label as "Supplement to Worksheet 4.0").
	4. The percentage of return flows from groundwater, surface water?
	5. If any percentage is surface water, provide the base water right number(s)
c.	Is the source of the water being discharged groundwater? Y / N $$ If yes, provide the following information:
	1. Source aquifer(s) from which water will be pumped:
	2. Any 24 hour pump test for the well if one has been conducted. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See http://www.twdb.texas.gev/groundwater/data/gwdbrpt.asp . Additionally, provide well numbers or identifiers
	See Attachment 6 - 24-hour Pump Tests 3. Indicate how the groundwater will be conveyed to the stream or reservoir.
ci.	 A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required. See Attachment 7 - Approve Application for Operating Permit from Northern Trinity GCD Is the source of the water being discharged a surface water supply contract? Y / N If yes, provide the signed contract(s).
cii.	Identify any other source of the water

WORKSHEET 4.1 DISCHARGE POINT INFORMATION

This worksheet is required for **each** discharge point. Submit one Worksheet 4.1 for each discharge point. If there is more than one discharge point, the numbering of the points should be consistent throughout the application and on any supplemental documents (e.g. maps). **Instructions, Page 27.**

For water discharged at this location provide:

a.	The amount of water that will be discharged at this point is per year. The discharged amount should include the amount compensate for any losses.	acre-feet t needed for use and to
b.	Water will be discharged at this point at a maximum rate of_	cfs orgpm.
c.	Name of Watercourse as shown on Official USGS maps:	
d.	Zip Code:	
f.	Location of point: In theOriginal Survey No No,County, Texas.	, Abstract Coordinate is provided at centerline of dam to allow
g.	Point is at:	for discharge to be located anywhere along perimeter of on-channel pond.
	Latitude°N, Longitude°W	
	*Provide Latitude and Longitude coordinates in decimal de places	egrees to at least six decimal
h.	Indicate the method used to calculate the discharge point lo GPS Device, GIS, Mapping Program):	
Mā	ap submitted must clearly identify each discharge point. Se	e instructions Page. 15.

See project location maps in Attachment 3.

WORKSHEET 5.0 ENVIRONMENTAL INFORMATION

This worksheet is required for new appropriations of water in the Canadian, Red, Sulphur, and Cypress Creek Basins. The worksheet is also required in all basins for: requests to change a diversion point, applications using an alternate source of water, and bed and banks applications. **Instructions, Page 28.**

1. New Appropriations of Water (Canadian, Red, Sulphur, and Cypress Creek Basins only) and Changes in Diversion Point(s)

Description of the Water Body at each Diversion Point or Dam Location. (Provide an Environmental Information Sheet for each location).

a. Identify the appropriate description of the water body.
□ Stream
□ Reservoir
Average depth of the entire water body, in feet:
☐ Other, specify:
b. Flow characteristics
If a stream, was checked above, provide the following. For new diversion locations, check one of the following that best characterize the area downstream of the diversion (check one).
☐ Intermittent - dry for at least one week during most years
☐ Intermittent with Perennial Pools – enduring pools
☐ Perennial - normally flowing
Check the method used to characterize the area downstream of the new diversion location.
□ USGS flow records
☐ Historical observation by adjacent landowners
☐ Personal observation
□ Other, specify:
c. Waterbody aesthetics

affected by the application and the area surrounding those stream segments.

Check one of the following that best describes the aesthetics of the stream segments

□ Wilderness: outstanding natural beauty; usually wooded or unpastured area; water clarity exceptional
□ Natural Area: trees and/or native vegetation common; some development evident (from fields, pastures, dwellings); water clarity discolored
□ Common Setting: not offensive; developed but uncluttered; water may be colored or turbid
□ Offensive: stream does not enhance aesthetics; cluttered; highly developed; dumping areas; water discolored
erbody Recreational Uses

d. Wate

Are there any known recreational uses of the stream segments affected by the application?

- ☐ Primary contact recreation (swimming or direct contact with water)
- Secondary contact recreation (fishing, canoeing, or limited contact with water)
- ☐ Non-contact recreation

Submit the following information in a Supplemental Attachment, labeled Addendum to Worksheet 5.0:

- 1. Photographs of the stream at the diversion point or dam location. Photographs should be in color and show the proposed point or reservoir and upstream and downstream views of the stream, including riparian vegetation along the banks. Include a description of each photograph and reference the photograph to the map submitted with the application indicating the location of the photograph and the direction of the shot. See Attachment 8, Addendum to Worksheet 5.0.
- 2. Measures the applicant will take to avoid impingement and entrainment of aquatic organisms (ex. Screens on the new diversion structure).
- 3. If the application includes a proposed reservoir, also include:
 - i. A brief description of the area that will be inundated by the reservoir.
 - If a United States Army Corps of Engineers (USACE) 404 permit is ii. required, provide the project number and USACE project manager.
 - iii. A description of how any impacts to wetland habitat, if any, will be mitigated if the reservoir is greater than 5,000 acre-feet.

Alternate Sources of Water and/or Bed and Banks Applications 2.

For all bed and banks applications:

Indicate the measures the applicant will take to avoid impingement and a. entrainment of aquatic organisms (ex. Screens on the new diversion structure).

See Attachment 8, Addendum to Worksheet 5.0.

If the alternate s	ource is treated	return flows, p	rovide the TPDE	S permit number	
If groundwater i into a watercour		ource, or grour	dwater or other	surface water wil	l be discharged
fol if t wa fro Ho we pro	lowing paramete here is a specific ter is withdrawn om similar sized wever, onsite da ll number or wel ovide the Well No Addendum to Workshee	ers in the table water quality If data for on wells drawing ta may still be lidentifier. County	below. Addition concern associated site wells are unawater from the sample the information.	ncluding but not all parameters mated with the aquifavailable; historicame aquifer may becomes availabmation below for	ly be requested Fer from which al data collected be provided. le. Provide the each well and
Parameter	Average Conc.	Max Conc.	No. of	Sample Type	Sample
			Samples		Date/Time
Sulfate, mg/L					
Chloride,					
mg/L					
Total					
Dissolved					
Solids, mg/L					
pH, standard					
units					
Temperature*,					
degrees					
Celsius					
b. If g of the a		be used, provi ch water is with	de the depth of a	the well	and the name

An assessment of the adequacy of the quantity and quality of flows remaining after the proposed diversion to meet instream uses and bay and estuary freshwater

inflow requirements. See Attachment 8, Addendum to Worksheet 5.0.

b.

WORKSHEET 6.0 Water Conservation/Drought Contingency Plans

This form is intended to assist applicants in determining whether a Water Conservation Plan and/or Drought Contingency Plans is required and to specify the requirements for plans. **Instructions, Page 31.**

The TCEQ has developed guidance and model plans to help applicants prepare plans. Applicants may use the model plan with pertinent information filled in. For assistance submitting a plan call the Resource Protection Team (Water Conservation staff) at 512-239-4691, or e-mail wras@tceq.texas.gov. The model plans can also be downloaded from the TCEQ webpage. **Please** use the most up-to-date plan documents available on the webpage.

1. Water Conservation Plans

- a. The following applications must include a completed Water Conservation Plan (30 TAC § 295.9) for each use specified in 30 TAC, Chapter 288 (municipal, industrial or mining, agriculture including irrigation, wholesale):
 - 1. Request for a new appropriation or use of State Water.
 - 2. Request to amend water right to increase appropriation of State Water.
 - 3. Request to amend water right to extend a term.
 - 4. Request to amend water right to change a place of use.

 *does not apply to a request to expand irrigation acreage to adjacent tracts.
 - 5. Request to amend water right to change the purpose of use. *applicant need only address new uses.
 - 6. Request for bed and banks under TWC § 11.042(c), when the source water is State Water

*including return flows, contract water, or other State Water.

b.		cant is requesting any authorization in section (1)(a) above, indicate each use for pplicant is submitting a Water Conservation Plan as an attachment:
	1	_Municipal Use. See 30 TAC § 288.2. **
	2	_Industrial or Mining Use. See 30 TAC § 288.3.

4. Wholesale Water Suppliers. See 30 TAC § 288.5. **

3. ____Agricultural Use, including irrigation. See 30 TAC § 288.4.

**If Applicant is a water supplier, Applicant must also submit documentation of adoption of the plan. Documentation may include an ordinance, resolution, or tariff, etc. See 30 TAC §§ 288.2(a)(1)(J)(i) and 288.5(1)(H). Applicant has submitted such documentation with each water conservation plan? Y / N

c. Water conservation plans submitted with an application must also include data and information which: supports applicant's proposed use with consideration of the plan's water conservation goals; evaluates conservation as an alternative to the proposed

appropriation; and evaluates any other feasible alternative to new water development. See 30 TAC \S 288.7.

Applicant has included this information in each applicable plan? Y / N

2. Drought Contingency Plans

etc. See 30 TAC § 288.30) Y / N

a.	A drought contingency plan is also required for the following entities if Applicant is requesting any of the authorizations in section (1) (a) above – indicate each that applies:
	1Municipal Uses by public water suppliers. See 30 TAC § 288.20.
	2Irrigation Use/ Irrigation water suppliers. See 30 TAC § 288.21.
	3Wholesale Water Suppliers. See 30 TAC § 288.22.
b.	If Applicant must submit a plan under section 2(a) above, Applicant has also submitted documentation of adoption of drought contingency plan (ordinance, resolution or tariff

WORKSHEET 7.0 ACCOUNTING PLAN INFORMATION WORKSHEET

The following information provides guidance on when an Accounting Plan may be required for certain applications and if so, what information should be provided. An accounting plan can either be very simple such as keeping records of gage flows, discharges, and diversions; or, more complex depending on the requests in the application. Contact the Surface Water Availability Team at 512-239-4691 for information about accounting plan requirements, if any, for your application. Instructions, Page 34. See Attachment 10 for Accounting Plan and Accounting Plan

Summary.

1. Is Accounting Plan Required

Accounting Plans are generally required:

- For applications that request authorization to divert large amounts of water from a single point where multiple diversion rates, priority dates, and water rights can also divert from that point:
- For applications for new major water supply reservoirs;
- For applications that amend a water right where an accounting plan is already required, if the amendment would require changes to the accounting plan;
- For applications with complex environmental flow requirements;
- For applications with an alternate source of water where the water is conveyed and diverted; and
- For reuse applications.

2. **Accounting Plan Requirements**

- A **text file** that includes: a.
 - an introduction explaining the water rights and what they authorize;
 - an explanation of the fields in the accounting plan spreadsheet including how they are calculated and the source of the data;
 - for accounting plans that include multiple priority dates and authorizations, a section that discusses how water is accounted for by priority date and which water is subject to a priority call by whom; and
 - Should provide a summary of all sources of water.

b. A **spreadsheet** that includes:

- Basic daily data such as diversions, deliveries, compliance with any instream flow requirements, return flows discharged and diverted and reservoir content;
- Method for accounting for inflows if needed:
- Reporting of all water use from all authorizations, both existing and proposed;
- An accounting for all sources of water:
- An accounting of water by priority date:
- For bed and banks applications, the accounting plan must track the discharged water from the point of delivery to the final point of diversion;
- Accounting for conveyance losses: 7.
- Evaporation losses if the water will be stored in or transported through a reservoir. Include changes in evaporation losses and a method for measuring reservoir content resulting from the discharge of additional water into the reservoir;
- An accounting for spills of other water added to the reservoir; and
- 10. Calculation of the amount of drawdown resulting from diversion by junior rights or diversions of other water discharged into and then stored in the reservoir.

WORKSHEET 8.0 CALCULATION OF FEES

This worksheet is for calculating required application fees. Applications are not Administratively Complete until all required fees are received. **Instructions, Page. 34**

1. NEW APPROPRIATION

	Description	Amount (\$)
	Circle fee correlating to the total amount of water* requested for any new appropriation and/or impoundment. Amount should match total on Worksheet 1, Section 1. Enter corresponding fee under Amount (\$).	
	<u>In Acre-Feet</u>	
Filing Fee	a. Less than 100 \$100.00	
	b. 100 - 5,000 \$250.00	
	c. 5,001 - 10,000 \$500.00	
	d. 10,001 - 250,000 \$1,000.00	
	e. More than 250,000 \$2,000.00	
Recording Fee		\$25.00
Agriculture Use Fee	Only for those with an Irrigation Use. Multiply 50° x Number of acres that will be irrigated with State Water. **	
	Required for all Use Types, excluding Irrigation Use.	
Use Fee	Multiply $1.00\ x$ Maximum annual diversion of State Water in acrefeet. **	
Dograptional Storage	Only for those with Recreational Storage.	
Recreational Storage Fee	Multiply 1.00 x acre-feet of in-place Recreational Use State Water to be stored at normal max operating level.	
	Only for those with Storage, excluding Recreational Storage.	
Storage Fee	Multiply $50 \ x$ acre-feet of State Water to be stored at normal max operating level.	
Mailed Notice	Cost of mailed notice to all water rights in the basin. Contact Staff to determine the amount (512) 239-4691.	
	TOTAL	\$

2. AMENDMENT OR SEVER AND COMBINE

	Description	Amount (\$)
Filing Foo	Amendment: \$100	
Filing Fee	OR Sever and Combine: \$100 xof water rights to combine	
Recording Fee		\$12.50
Mailed Notice	Additional notice fee to be determined once application is submitted.	
	TOTAL INCLUDED	\$

3. BED AND BANKS

	Description	Amount (\$)
Filing Fee		\$100.00
Recording Fee		\$12.50
Mailed Notice	Additional notice fee to be determined once application is submitted.	
	TOTAL INCLUDED	\$

ATTACHMENT 1

Signatory Requirements – Independence Water, L.P.

WRITTEN CONSENT OF THE SOLE MEMBER OF

INDEPENDENCE WATER GP, LLC

January 1, 2021

The undersigned, being the sole member of Independence Water GP, LLC, a Texas limited liability company (the "Company"), does hereby consent to, adopt, and approve, in all respects, the following resolutions and each and every action effected thereby.

Annual Election of Officers

RESOLVED, that the individuals named below are hereby authorized to act, on behalf of the Company, in the capacity listed set forth opposite their respective names, to serve until he/she resigns, is removed or otherwise disqualified to serve, or until the appointment of a successor:

Name	Office
L. Russell Laughlin	Executive Vice President

RESOLVED, that the officers of the Company are hereby authorized and directed, in the name and on behalf of the Company, to do and perform such acts and deeds and to execute and deliver such instruments and documents as may be necessary or desirable to carry out and comply with the terms and provisions of these resolutions, and that all past and present actions and deeds of any such officer that are consistent with the purposes of the Company be, and the same hereby are, in all respects, ratified, approved and adopted as the acts of the Company.

[The Balance of this Page Intentionally Left Blank; Signature Page to Follow.]

This written consent of the sole member of Independence Water GP, LLC is executed to be effective as of the date first above written.

HILLWOOD MANAGEMENT, LTD., **SOLE MEMBER:**

a Texas limited partnership

Hillwood Property Company, By:

a Texas corporation, its general partner

By: Stephen D. Parker Assistant Secretary

ATTACHMENT 2

Signatory Requirements – HW Land 2421, L.P.

WRITTEN CONSENT OF THE SOLE MEMBER OF

HW 2421 LAND GP, LLC

January 1, 2021

The undersigned, being the sole member of HW 2421 Land GP, LLC, a Texas limited liability company (the "Company"), does hereby consent to, adopt, and approve, in all respects, the following resolutions and each and every action effected thereby.

Annual Election of Officers

RESOLVED, that the individuals named below are hereby authorized to act, on behalf of the Company, in the capacity set forth opposite their respective names, to serve until he/she resigns, is removed or otherwise disqualified to serve, or until the appointment of a successor:

Name	Office
L. Russell Laughlin	Executive Vice President

RESOLVED, that the officers of the Company are hereby authorized and directed, in the name and on behalf of the Company, to do and perform such acts and deeds and to execute and deliver such instruments and documents as may be necessary or desirable to carry out and comply with the terms and provisions of these resolutions, and that all past and present actions and deeds of any such officer that are consistent with the purposes of the Company be, and the same hereby are, in all respects, ratified, approved and adopted as the acts of the Company.

RESOLVED, that the Secretary and/or Assistant Secretary of the Company is directed to place this Written Consent of the Sole Member of HW 2421 Land GP, LLC, in the Company's corporate records.

This written consent of the sole member of HW 2421 Land GP, LLC is executed to be effective as of the date first above written.

SOLE MEMBER: HILLWOOD DEVELOPMENT COMPANY, LLC,

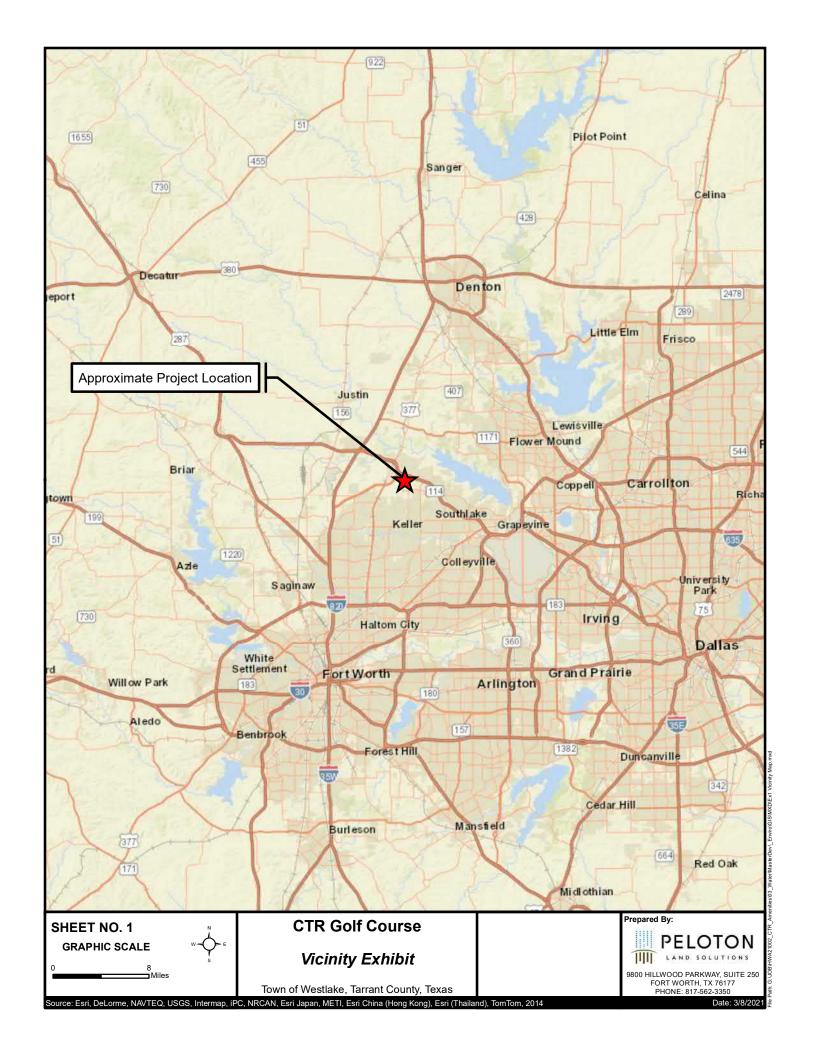
a Texas limited liability company

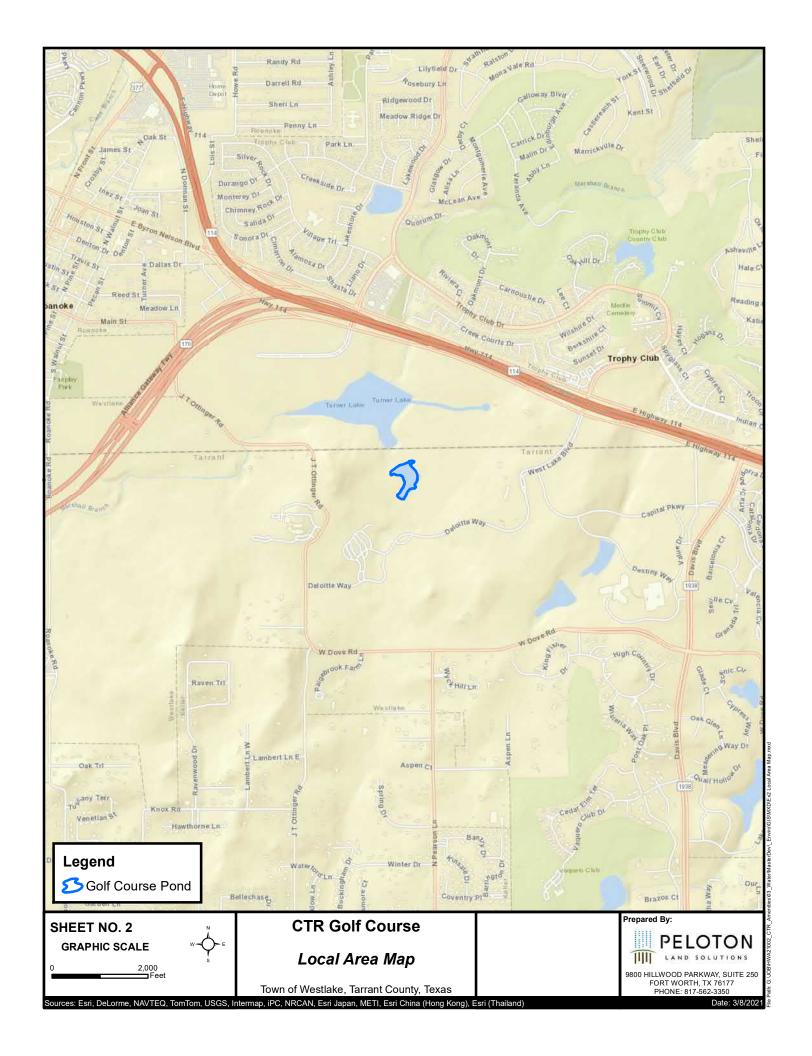
By: Stephen D. Parker

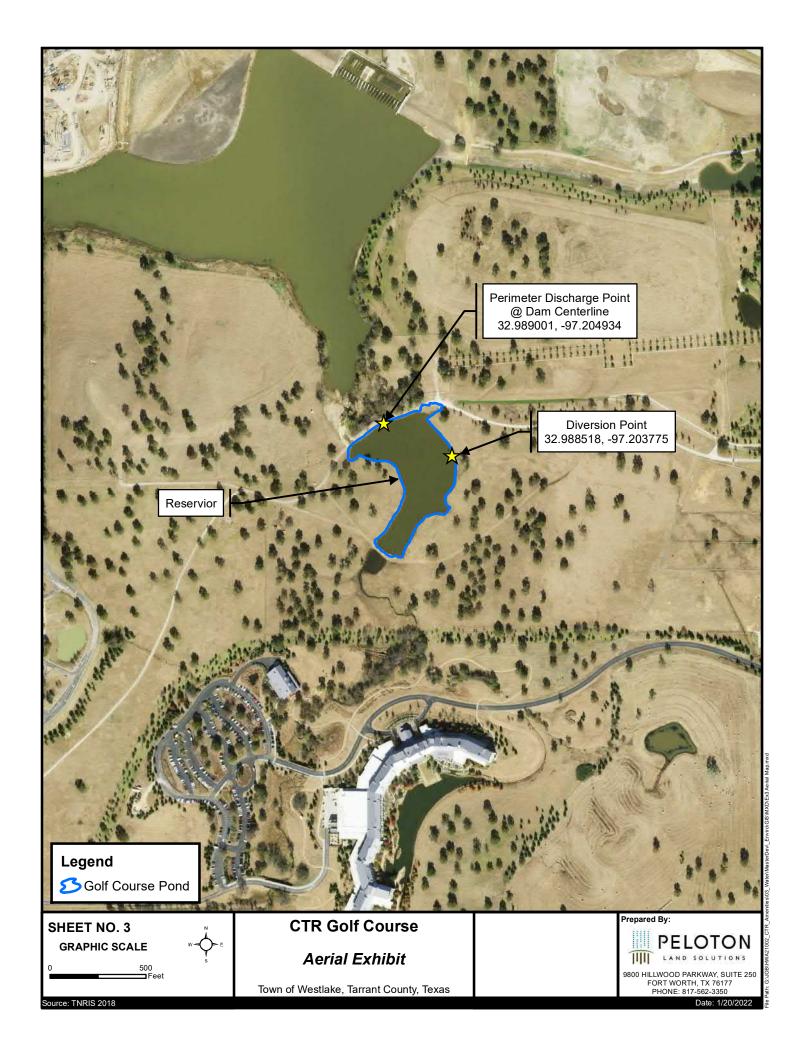
Assistant Secretary

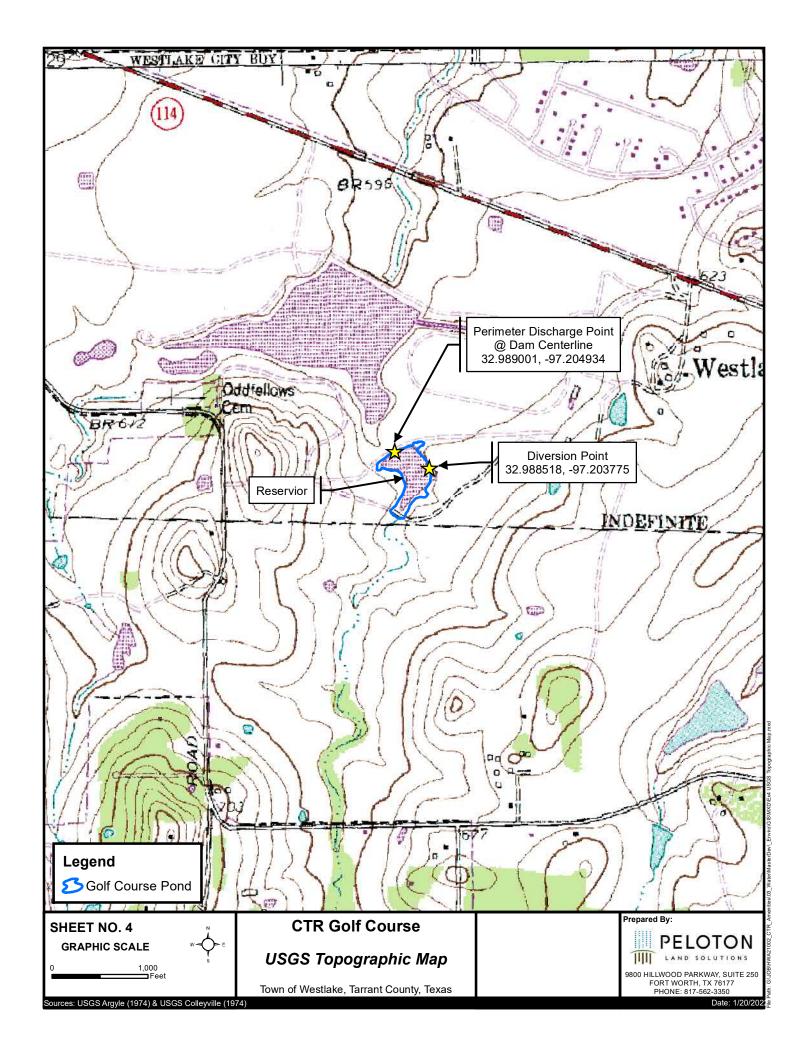
ATTACHMENT 3

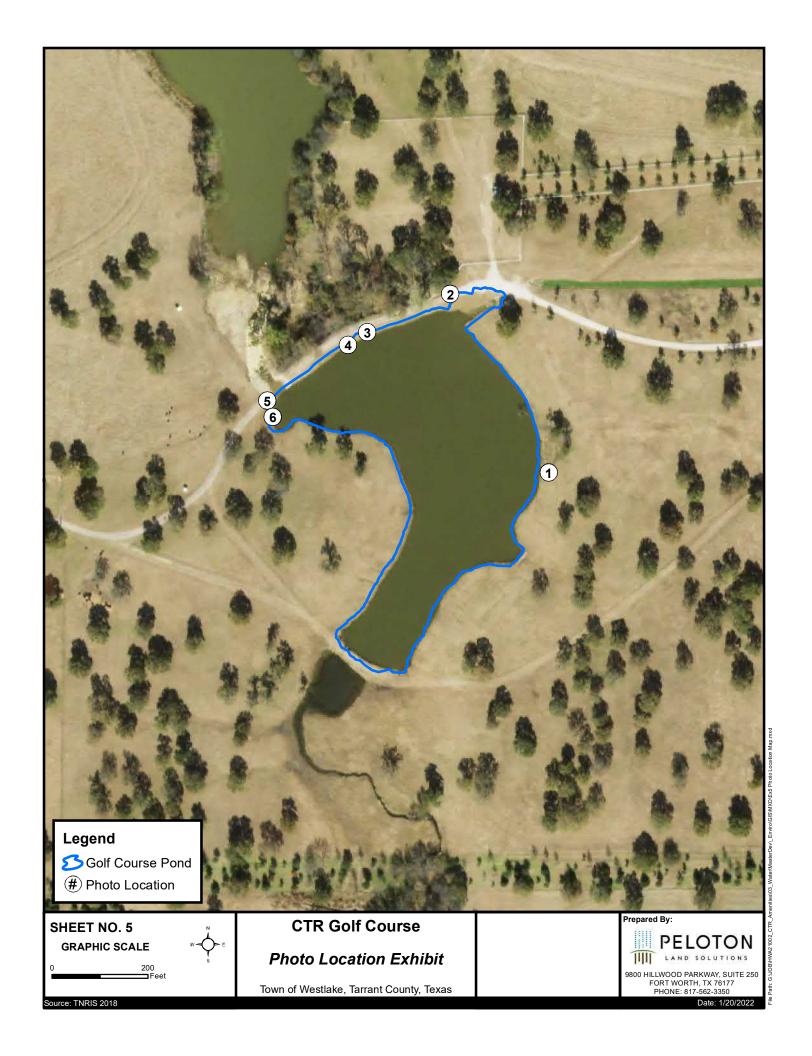
Project Location Maps

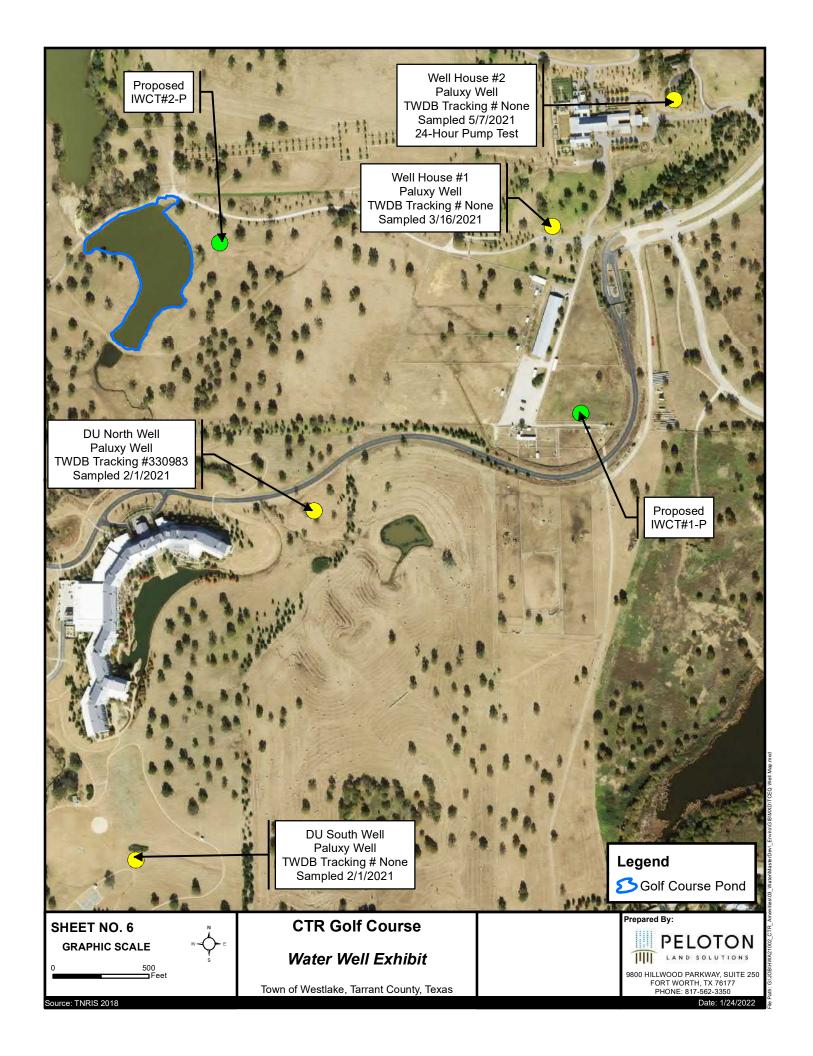












ATTACHIMENT A
ATTACHMENT 4 Limited Warranty Deed for Structure Location & Irrigation Area
Tarranty 2 cca for our details 2 country to the mingation / treat

NOTICE OF CONFIDENTIALITY RIGHTS: IF YOU ARE A NATURAL PERSON, YOU MAY REMOVE OR STRIKE ANY OR ALL OF THE FOLLOWING INFORMATION FROM THIS INSTRUMENT BEFORE IT IS FILED FOR RECORD IN THE PUBLIC RECORDS: YOUR SOCIAL SECURITY NUMBER OR YOUR DRIVER'S LICENSE NUMBER.

LIMITED WARRANTY DEED

THE STATE OF TEXAS

COUNTIES OF DENTON AND TARRANT KNOW ALL MEN BY THESE PRESENT

THAT, AIL Investment, L.P., a Texas limited partnership ("Grantor"), for and a consideration of \$10.00 and other good and valuable consideration in hand paid by HW 2421 Land, LP, a Texas limited partnership ("Grantee"), whose address is Three Lincoln Centre, 5430 LBJ Freeway, Suite 800, Dallas, Texas 75240, the receipt and sufficiency of which are hereby acknowledged, has GRANTED AND CONVEYED and by these presents does GRANT AND CONVEY unto Grantee, (i) the real property situated in Denton and Tarrant Counties, Texas, more particularly described on Exhibit "A" attached hereto and incorporated herein by reference, and (ii) together with all and singular, the rights, privileges, hereditaments and appurtenances pertaining to such real property, including, any and all improvements and fixtures currently attached to and located thereon, if any (collectively, the "Property").

For the same consideration, Grantor has GRANTED AND CONVEYED, and by these presents does GRANT AND CONVEY unto Grantee; without warranty, express or implied, all interest of Grantor, if any, in (1) strips and gores, if any, between the Property and any abutting properties, whether owned or claimed by deed, limitations, or otherwise, and whether located inside or outside the Property; and (2) any land lying in or under the bed of any creek, stream, or waterway or any highway, avenue, street, road, alley, easement or right-of-way, open or proposed, in, or across, abutting or adjacent to the Property.

This conveyance is made and accepted subject to the matters set forth in <u>Exhibit "B"</u> attached hereto and made a part hereof for all purposes, but only to the extent that such exceptions are valid, existing and affect the Property (the "<u>Permitted Exceptions</u>").

TO HAVE AND TO HOLD the Property, subject to the Permitted Exceptions, together with, all and singular, the rights and appurtenances thereto in anywise belonging, unto Grantee, its successors and assigns, forever; and, subject to the Permitted Exceptions, Grantor does hereby bind itself, its successors and assigns, to WARRANT AND FOREVER DEFEND, all and singular, the Property unto Grantee, its successors and assigns, against every person whomsoever lawfully claiming or to claim the same or any part thereof IN ACCORDANCE WITH AND STRICTLY LIMITED BY THE FOLLOWING SPECIFIC LIMITED WARRANTY OF TITLE BUT NOT OTHERWISE, THIS SPECIFIC LIMITED WARRANTY, AS HEREINAFTER SET FORTH, BEING THE ONLY WARRANTY OF TITLE MADE HEREUNDER BY GRANTOR:

Grantor was conveyed title to the Property pursuant to that certain Limited Warranty Deed, dated June 17, 1998, effective the 31st day of December, 1997, and filed in the real property records of Denton County, Texas, on June 19, 1998, under Document No. 98-R0052417 (the "Grantor Deed"). With respect to the Property conveyed by the Grantor Deed, Grantor shall pay to Grantee or its successors and assigns any loss Grantee or its successors and assigns may sustain by reason of defects, liens or encumbrances with respect to which Grantor was given a limited wairanty of title to the Property in the Grantor Deed, such payment and sole liability hereunder on the part of Grantor not to exceed the amount payable to Grantor pursuant to the limited warranty of title contained in the Grantor Deed. This limited warranty shall constitute a limited warranty to Grantee and its successors only as to the same matters for which Grantor received a limited warranty of title and is limited to the amount of the warranty under the Grantor Deed. Under no circumstances shall Grantor be liable to Grantee or its successors for any sum which is not recoverable or payable to Grantor under the warranty of title contained in the Grantor Deed, it being the intention of Grantor to limit Grantor's exposure to any loss incurred by reason of the breach by Grantor of this limited warranty to those sums payable to Grantor under the warranty of title under the Grantor Deed, and no other. It is expressly intended that this specific limited warranty shall extend solely to Grantee and its successors and to no other parties.

This conveyance is being made by Grantor and accepted by Grantee subject to taxes for the year 2009, the payment of which Grantee assumes, and subsequent assessments for that and prior years due to change in land usage, ownership, or both, the payment of which Grantee assumes.

[Remainder of this page intentionally blank.]

EXECUTED this 6th day of July, 2009, to be effective at 11:59p.m, on December 31, 2008.



AIL Investment, L.P., a Texas limited partnership

By: AIL GP, LLC,

a Texas limited liability company, its general partner

M. Thomas Mason

Executive Vice President

THE STATE OF TEXAS

COUNTY OF DALLAS

This instrument was acknowledged before me on this 6th day of July, 2009, by M. Thomas Mason, Executive Vice President of AIL GP, LLC, a Texas limited liability company, the general partner of AIL Investment, L.P., a Texas limited partnership, on behalf of said limited partnership.

KRISTY NEEDHAM
Notary Public, State of Texas
My Commission Expires
February 09, 2012

Notary Public in and for the State of Texas

EXHIBIT "A"

LEGAL DESCRIPTION

[SEE ATTACHED.]

PARCEL NO.1

BEING a tract of land situated in the William Huff Survey, Abstract No. 648, the Jessie Gibson Survey, Abstract No. 592 and No. 593, the J. Bacon Survey, Abstract No. 2026, the Richard Eads Survey, Abstract No. 492, the Jessie Sutton Survey, Abstract No. 1451, the Charles Medlin Survey, Abstract No. 1084, the Greenbury B. Hendricks Survey, Abstract No. 680, and the Memucan Hunt Survey, Abstract No. 756, Tarrant County, Texas, and the Jessie Gibson Survey, Abstract No. 493, the J. Bacon Survey, Abstract No. 1565, the Richard Eads Survey, Abstract No. 393, the Jessie Sutton Survey, Abstract No. 1154, the Charles Medlin Survey, Abstract No. 823, and the M.E.P. and P.R.R. Co. Survey, Abstract No. 923, Denton County, Texas, and being a portion of that certain tract of land described by deed to AIL Investment, L.P., as recorded in Volume 13275, Page 542, County Records, Tarrant County, Texas, and being more particularly described as follows:

BEGINNING at the northeast corner of that certain tract of land described by deed to Westlake Retail Associates, Ltd., as recorded in Clerk's Filing Number 98-R0118649, Real Property Records of Denton County, Texas, said point being in the southerly right-of-way line of State Highway 114 (a variable width right-of-way);

THENCE S 75°23'15"E, 177.04 feet along the southerly right-of-way line of said State Highway 114;

THENCE N 35°10'12"E, 64.12 feet continuing along the southerly right-of-way line of said State Highway 114;

THENCE S 83°32'53"E, 280.71 feet continuing along the southerly right-of-way line of said State Highway 114;

THENCE S 75°20'18"E, 99.79 feet continuing along the southerly right-of-way line of said State Highway 114;

THENCE S 68°06'43"E, 312.60 feet continuing along the southerly right-of-way line of said State Highway 114;

THENCE N 71°04'40"E, 72.01 feet continuing along the southerly right-of-way line of said State Highway 114;

THENCE S 75°23'17"E, 420.11 feet continuing along the southerly right-of-way line of said State Highway 114;

THENCE S 43°54'26"E, 76.22 feet continuing along the southerly right-of-way line of said State Highway 114;

THENCE S 86°58'32"E, 198.85 feet continuing along the southerly right-of-way line of said State Highway 114;

THENCE S 75°13'09"E, 55.83 feet continuing along the southerly right-of-way line of said State Highway 114 to the beginning of a curve to the right;

THENCE continuing along the southerly right-of-way line of said State Highway 114 and with said curve to the right, an arc distance of 1371.81 feet, through a central angle of 10°18'56", having a radius of 7619.44 feet, the long chord of which bears S 70°13'39"E, 1369.96 feet;

THENCE S 65°08'39"E, 819.44 feet continuing along the southerly right-of-way line of said State Highway 114;

THENCE S 61°06'42'E, 300.72 feet continuing along the southerly right-of-way line of said State Highway 114;

THENCE S 72°37'39"E, 151.61 feet continuing along the southerly right-of-way line of said State Highway 114;

THENCE S 65°07'20"E, 472.53 feet continuing along the southerly right-of-way line of said State Highway 114 to the beginning of a curve to the left;

THENCE continuing along the southerly right-of-way line of said State Highway 114 and with said curve to the left, an arc distance of 274.47 feet, through a central angle of 02°44'07", having a radius of 5749.58 feet, the long chord of which bears S 66°27'19"E, 274.45 feet, said point being at the intersection of the southerly right-of-way line of said State Highway 114 and the northwesterly right-of-way line of Westlake Parkway (a variable width right-of-way);

THENCE S 22°10'36"W, 14.00 feet along the northwesterly right-of-way line of said Westlake Parkway;

THENCE S 24°16'35"E, 73.61 feet continuing along the northwesterly right-of-way line of said Westlake Parkway;

THENCE S 19°13'50"W, 299.02 feet continuing along the northwesterly right-of-way line of said Westlake Parkway to the beginning of a curve to the right;

THENCE continuing along the northwesterly right-of-way line of said Westlake Parkway and with said curve to the right, an arc distance of 146.07 feet, through a central angle of 07°10'06", having a radius of 1167.50 feet, the long chord of which bears S 22°48'53"W, 145.97 feet to the beginning of a compound curve to the right;

THENCE continuing along the northwesterly right-of-way line of said Westlake Parkway and with said compound curve to the right, an arc distance of 87.12 feet, through a central angle of 12°28'44", having a radius of 400.00 feet, the long chord of which bears S 32°38'18"W, 86.95 feet;

THENCE S 38°52'40"W, 318.92 feet continuing along the northwesterly right-of-way line of said Westlake Parkway to the beginning of a curve to the right;

THENCE continuing along the northwesterly right-of-way line of said Westlake Parkway and with said curve to the right, an arc distance of 435.19 feet, through a central angle of 29°20'05", having a radius of 850.00 feet, the long chord of which bears S 53°32'42"W, 430.45 feet to the beginning of a compound curve to the right;

THENCE continuing along the northwesterly right-of-way line of said Westlake Parkway and with said compound curve to the right, an arc distance of 149.47 feet, through a central angle of 33°58'22", having a radius of 252.08 feet, the long chord of which bears S 85°11'56"W, 147.29 feet to the beginning of a reverse curve to the left;

THENCE continuing along the northwesterly right-of-way line of said Westlake Parkway and with said reverse curve to the left, an arc distance of 35.64 feet, through a central angle of 30°56'35", having a radius of 66.00 feet, the long chord of which bears S 86°42'50"W, 35.21 feet to the most northerly terminus of said Westlake Parkway;

THENCE S 12°42'02"E, 189.35 feet along the terminus of said Westlake Parkway to the most southerly terminus of said Westlake Parkway and the beginning of a non-tangent curve the right, said point also being in the westerly property line of that certain tract of land described by deed to FMR Texas Limit Partnership, as recorded in Volume 13457, Page 403, County Records, Tarrant County, Texas, and in Clerk's Filling Number 98-R0091571, Real Property Records of Denton County, Texas;

THENCE along the westerly property line of said FMR tract and with said non-tangent curve to the right, an arc distance of 38.39 feet, through a central angle of 01°39'03", having a radius of 1332.50 feet, the long chord of which bears \$ 77°16'36"W, 38.39 feet;

THENCE S 09°40'08"E, 892.93 feet continuing along the westerly property line of said FMR tract;

THENCE S 16°36'28"W, 1518.12 feet continuing along the westerly property line of said FMR tract;

THENCE S 00°59'38"E, 573.79 feet continuing along the westerly property line of said FMR tract;

THENCE S 11°34'10"E, 564.14 feet continuing along the westerly property line of said FMR tract to the northerly right-of-way line of Dove Road (a variable width right-of-way);

THENCE S 70°31'18"W, 349.16 feet along the northerly right-of-way line of said Dove Road to the beginning of a curve the right;

THENCE continuing along the northerly right-of-way line of said Dove Road and with said curve to the right, an arc distance of 253.38 feet, through a central angle of 19°21'24", having a radius of 750.00 feet, the long chord of which bears S 80°12'00"W, 252.18 feet;

THENCE S 89°52'43"W, 361.81 feet continuing along the northerly right-of-way line of said Dove Road to the east property line of that certain tract of land described by deed to AIL Investment, L.P., as recorded in Volume 13544, Page 24, County Records, Tarrant County, Texas;

THENCE N 00°26'57"E, 856.11 feet along the east property line of said AIL tract to the northeast property corner of said AIL tract;

THENCE S 87°44'39"W, 487.27 feet along the north property line of said AIL tract to the northwest property corner of said AIL tract;

THENCE S 00°27'26"W, 837.96 feet along the west property line of said AIL tract returning to the northerly right-of-way line of said Dove Road;

THENCE S 89°52'43"W, 412.49 feet continuing along the northerly right-of-way line of said Dove Road;

THENCE S 88°54'36"W, 100.66 feet continuing along the northerly right-of-way line of said Dove Road to the southeast property corner of that certain tract of land described by deed to DCLI LLC, as recorded in document number D208246568, County Records, Tarrant County, Texas;

THENCE N 01°05'24"W, 1442.77 feet along the east property line of said DCLI tract;

THENCE N 40°02'39"E, 871.03 feet continuing along the east property line of said DCLI tract;

THENCE N 00°32'43"W, 545.49 feet continuing along the east property line of said DCLI tract to northeast property corner of said DCLI tract;

THENCE S 89°27'17"W, 1824.60 feet along the north property line of said DCLI tract to the most northwesterly property corner of said DCLI tract;

THENCE S 58°07'29"W, 519.96 feet along the westerly property line of said DCLI tract;

THENCE S 26°47'41"W, 340.17 feet continuing along the westerly property line of said DCLI tract;

THENCE S 24°21'01"W, 227.62 feet continuing along the westerly property-line of said DCLI tract;

THENCE S 20°32'10"W, 243.20 feet continuing along the westerly property line of said DCLI tract;

THENCE S 00°45'29"E, 357.87 feet continuing along the westerly property line of said DCLI tract to the north property line of that certain tract of land described by deed to AIL Investment, L.P., as recorded in Document Number D208228230, County Records, Tarrant County, Texas;

THENCE S 89°49'56"W, 1895.38 feet along said AIL boundary line and crossing said Ottinger Road and then along the north property line of that certain tract of land described by deed to Hillwood Investment Land, L.P., as recorded in Document Number D207311517, County Records, Tarrant County, Texas, to the northwest property corner of said Hillwood Investment Land tract;

THENCE S 00°05'13"W, 1321.04 feet along said AIL boundary line;

THENCE S 89°14'09"W, 1326.57 feet continuing along said AIL boundary line;

THENCE S 00°38'31"E, 3279.65 feet continuing along said AIL boundary line;

THENCE S 89°25°42"W, 738.33 feet continuing along said AIL boundary line;

THENCE N 01°20'34"W, 432.68 feet continuing along said AIL boundary line;

THENCE S 89°57'12"W, 102.66 feet continuing along said AIL boundary line;

THENCE N 00°06'11"W, 948.90 feet continuing along said AIL boundary line;

THENCE S 89°49'45"W, 1835.53 feet continuing along said AIL boundary line to the most westerly southwest property corner of said AIL tract, being in the approximate center line of Roanoke Road;

THENCE N 00°05'27"W, 1067.63 feet along the boundary line of said AIL tract and in the approximate center line of said Roanoke Road to easterly boundary line of a 5.200 acre Town of Westlake tract described in Volume 15922, page 268, County Records, Tarrant County, Texas, and to the beginning of a non-tangent curve to the left;

THENCE along the easterly boundary line of said 5.200 acre Town of Westlake tract and with said non-tangent curve to the left, an arc distance of 47.56 feet, through a central angle of 03°56'58", having a radius of 690.00 feet, the long chord of which bears N 30°47'19"E, 47.55 feet, to a point in the westerly boundary line of a 2.544 acre Town of Westlake tract dedicated for Roanoke Road right-of-way, as recorded in Volume 15922, Page 266, County Records, Tarrant County, Texas;

THENCE S 00°19'49"E, 155.71 feet along the westerly boundary line of said 2.544 acre tract to the most southerly point in the boundary of said 2.544 acre tract;

THENCE N 26°35'53"E, 165.50 feet along the easterly boundary line of said 2.544 acre tract to the beginning of a curve to the left;

THENCE continuing along the easterly property line of said 2.544 acre tract and with said curve to the left, an arc distance of 616.13 feet, through a central angle of 46°26'58", having a radius of 760.00 feet, the long chord of which bears N 03°22'24"E, 599.39 feet;

THENCE N 19°51'05"W, 216.71 feet continuing along the easterly property line of said 2.544 acre tract to the beginning of a curve to the right;

THENCE continuing along the easterly property line of said 2.544 acre tract and with said curve to the right, an arc distance of 328.80 feet, through a central angle of 20°02'29", having a radius of 940.00 feet, the long chord of which bears N 09°49'50"W, 327.13 feet to the south property line of that certain tract of land described by deed to AIL Investment, L.P., as recorded in Volume 13770, Page 441, County Records, Tarrant County, Texas;

THENCE N 89°30'04"E, 2647.12 feet along the south property line of said AIL tract to the southeast property corner of said AIL tract;

THENCE N 00°14'01"W, 664.18 feet along the east property line of said AIL tract and then along the east property line of that certain tract of land described by deed to AIL Investment, L.P., as recorded in Volume 13770, Page 424, County Records, Tarrant County, Texas, to the northeast property corner of said AIL Investment, L.P., tract as recorded in Volume 13770, Page 424, County Records, Tarrant County, Texas;

THENCE N 89°26'44"W, 2649.59 feet along the north property line of said AIL tract and then along the north property line of that certain tract of land described by deed to AIL Investment, L.P., as recorded in Volume 14178, Page 432, County Records, Tarrant County, Texas, returning to the approximate center line of the aforementioned Roanoke Road;

THENCE N 00°29'48"W, 1619.28 feet along the boundary line of said AIL tract;

THENCE N 87°52'45"E, 23.60 feet continuing along the boundary line of said AIL tract;

THENCE N 00°08'55"E, 131.69 feet continuing along the boundary line of said AIL tract to the southerly right-of-way line of State Highway 170 (a variable width right-of-way);

THENCE N 89°51'27"E, 3.18 feet along the southerly right-of-way line of said State Highway 170;

THENCE N 00°08'34"W, 85.39 feet continuing along the southerly right-of-way line of said State Highway 170 to the beginning of a non-tangent curve to the left;

THENCE continuing along the southerly right-of-way line of said State Highway 170 and with said non-tangent curve to the left, an arc distance of 1381.19 feet, through a central angle of 17°11'24", having a radius of 4603.66 feet, the long chord of which bears N 52°14'43"E, 1376.02 feet;

THENCE N 77°57'39"E, 66.80 feet continuing along the southerly right-of-way line of said State Highway 170;

THENCE N 39°31'08"E, 106.53 feet continuing along the southerly right-of-way line of said State Highway 170;

THENCE N 23°42'12"E, 110.15 feet continuing along the southerly right-of-way line of said State Highway 170 to the beginning of a non-tangent curve to the left;

THENCE continuing along the southerly right-of-way line of said State Highway 170 and with said non-tangent curve to the left, an arc distance of 1174.20 feet, through a central angle of 05°51'39", having a radius of 11479.16 feet, the long chord of which bears N 37°35'29"E, 1173.69 feet;

THENCE N 34°39'39"E, 983.30 feet continuing along the southerly right-of-way line of said State Highway 170;

THENCE S 75°41'23"E, 65.50 feet continuing along the southerly right-of-way line of said State Highway 170;

THENCE N 89°53'30"E, 19.84 feet continuing along the southerly right-of-way line of said State Highway 170 to a point in the westerly property line of the aforementioned Westlake Retail Associates, Ltd tract;

THENCE S 00°40'26"E, 217.45 feet along the westerly property line of said Westlake Retail Associates, Ltd tract to the most northerly property corner of that certain Save and Except tract (First tract), recorded in the aforementioned AIL Investment, L.P., as recorded in Volume 13275, Page 542, County Records, Tarrant County, Texas and in Clerk's Filing Number 98-R0052417, Real Property Records of Denton County, Texas;

THENCE S 00°37'40"E, 73.60 feet along the west property line of said Save and Except tract;

THENCE N 89°10'35"W, 284.94 feet continuing along the west property line of said Save and Except tract;

THENCE S 00°44'51"E, 1502.61 feet continuing along the west property line of said Save and Except tract;

THENCE S 89°57'50"W, 10.00 feet continuing along the west property line of said Save and Except tract;

THENCE S 00°07'14"E, 946.45 feet continuing along the west property line of said Save and Except tract to the southwest property corner of said Save and Except tract;

THENCE N 89°52'59"E, 1461.16 feet along the south property line of said Save and Except tract to the northwest property corner of that certain 24.59 acre Town of Westlake tract, recorded in Volume 15818, Page 117, County Records, Tarrant County, Texas;

THENCE S 66°58'16"E, 192.22 feet along the west property line of said 24.59 acre Town of Westlake tract;

THENCE S 07°25'33"E, 180.88 feet continuing along the west property line of said 24.59 acre Town of Westlake tract;

THENCE S 21°24'47"E, 39.07 feet continuing along the west property line of said 24.59 acre Town of Westlake tract;

THENCE S 11°10'47"E, 94.09 feet continuing along the west property line of said 24.59 acre
Town of Westlake tract;

THENCE S 34°58'57"E, 140.91 feet continuing along the west property line of said 24.59 acre Town of Westlake tract;

THENCE S 54°13'31"E, 60.78 feet continuing along the west property line of said 24.59 acre Town of Westlake tract;

THENCE S 23°41'47"E, 109.17 feet continuing along the west property line of said 24.59 acre Town of Westlake tract to the southwest property corner of said 24.59 acre Town of Westlake tract;

THENCE N 89°49'56"E, 1012.80 feet along the south property line of said 24.59 acre Town of Westlake tract to the beginning of a curve to the left;

THENCE continuing along the south property line of said 24.59 acre Town of Westlake tract and with said curve to the left, an arc distance of 62.32 feet, through a central angle of 08°17'02", having a radius of 431.03 feet, the long chord of which bears N 85°40'05"E, 62.27 feet to the northwest corner of a variable width right-of-way dedication, as recorded in Volume 16653, Page 89, County records, Tarrant County, Texas;

THENCE S 00°02'05"E, 125.19 feet along the west terminus of said right-of-way dedication to the southwest corner of said right-of-way dedication;

THENCE N 89°57'55"E, 51.18 feet along the south right-of-way line of said right-of-way dedication;

THENCE N 43°06'40"E, 154.03 feet continuing along the south right-of-way line of said right-of-way dedication to the beginning of a non-tangent curve to the left;

THENCE continuing along the south right-of-way line of said right-of-way dedication and with said non-tangent curve to the left, an arc distance of 320.00 feet, through a central angle of 37°20'29", having a radius of 491.00 feet, the long chord of which bears N 44°43'50"E, 314.37 feet;

THENCE N 26°03'35"E, 100.00 feet continuing along the south right-of-way line of said right-of-way dedication to the beginning of a curve to the right;

THENCE continuing along the south right-of-way line of said right-of-way dedication and with said curve to the right, an arc distance of 124.87 feet, through a central angle of 12°54'51", having a radius of 554.00 feet, the long chord of which bears N 32°31'00"E, 124.61 feet;

THENCE N 38°58'25"E, 195.82 feet continuing along the south right-of-way line of said right-of-way dedication to the northeast corner of said right-of-way dedication;

THENCE N 51°01'35"W, 60:00 feet along the northeasterly terminus of said right-of-way dedication to a point in the east property line of the aforementioned 24.59 acre Town of Westlake tract and being the beginning of a curve to the right;

THENCE along the east property line of said 24.59 acre Town of Westlake tract and with said curve to the right, an arc distance of 612.92 feet, through a central angle of 30°17'41", having a radius of 1159.20 feet, the long chord of which bears N 34°31'13"W, 605.80 feet to the most northerly corner of said 24.59 acre Town of Westlake tract and also being in the east property line of the aforementioned Save and Except tract;

THENCE N 00°47'59"W, 1267.03 feet along the east property line of said Save and Except tract to the northeast property corner of said Save and Except tract;

THENCE N 89°54'00"W, 803.58 feet along the north property line of said Save and Except tract;

THENCE S 01°46'29"E, 315.42 feet continuing along the north property line of said Save and Except tract;

THENCE N 89°59'37"W, 630.18 feet continuing along the north property line of said Save and Except tract;

THENCE N 76°13'43"W, 210.12 feet continuing along the north property line of said Save and Except tract;

THENCE N 41°18'15"W, 569.57 feet continuing along the north property line of said Save and Except tract to the southerly property line of the aforementioned Westlake Retail Associates, Ltd., tract and the beginning of a non-tangent curve to the right;

THENCE along the southerly property line of said with said Westlake Retail Associates, Ltd., tract and with said non-tangent curve to the right, an arc distance of 128.75 feet, through a central angle of 03°55'08", having a radius of 1882.50 feet, the long chord of which bears N 88°08'26"E, 128.73 feet;

THENCE S 89°54'00"E, 898.42 feet continuing along the southerly property line of said Westlake Retail Associates, Ltd., tract;

THENCE N 00°32'44"W, 45.96 feet continuing along the southerly property line of said Westlake Retail Associates, Ltd., tract to the beginning of a curve to the right;

THENCE continuing along the southerly property line of said Westlake Retail Associates, Ltd., tract and with said curve to the right, an arc distance of 47.12 feet, through a central angle of 90°00'00", having a radius of 30.00 feet, the long chord of which bears N 44°27'16"E, 42.43 feet;

THENCE N'89°27'16'E, 32.96 feet continuing along the southerly property line of said Westlake Retail Associates, Ltd., tract;

THENCE N 50°57'27"E, 12.08 feet continuing along the southerly property line of said Westlake Retail Associates, Ltd., tract to the beginning of a non-tangent curve to the left;

THENCE continuing along the southerly property line of said Westlake Retail Associates, Ltd., tract and with said non-tangent curve to the left, an arc distance of 481.24 feet, through a central angle of 67°31'55", having a radius of 408.29 feet, the long chord of which bears N 33°13'14"E, 453.86 feet to the beginning of a reverse curve to the right;

THENCE continuing along the southerly property line of said Westlake Retail Associates, Ltd., tract and with said reverse curve to the right, an arc distance of 47.12 feet, through a central angle of 90°00'01", having a radius of 30.00 feet, the long chord of which bears N 44°27'16"E, 42.43 feet;

THENCE N 89°27'16"E, 170.26 feet continuing along the southerly property line of said Westlake Retail Associates, Ltd., tract;

THENCE S 00°32'44"E, 49.98 feet continuing along the southerly property line of said Westlake Retail Associates, Ltd., tract;

THENCE N 89°27'16"E, 11.14 feet continuing along the southerly property line of said Westlake Retail Associates, Ltd., tract to the beginning of a non-tangent curve to the left;

THENCE continuing along the southerly property line of said Westlake Retail Associates, Ltd., tract and with said non-tangent curve to the left, an arc distance of 33.89 feet, through a central angle of 10°47'26", having a radius of 179.93 feet, the long chord of which bears S 28°08'13"E, 33.84 feet;

THENCE S 89°27'16"W, 16.72 feet continuing along the southerly property line of said Westlake Retail Associates, Ltd., tract to the beginning of a non-tangent curve to the left;

THENCE continuing along the southerly property line of said Westlake Retail Associates, Ltd., tract and with said non-tangent curve to the left, an arc distance of 205.35 feet, through a central angle of 60°21'43", having a radius of 194.92 feet, the long chord of which bears \$\frac{9}{60}\$ 53'46"E, 195.99 feet;

THENCE N 89°27'16"E, 194.11 feet continuing along the southerly property line of said Westlake Rétail Associates, Ltd., tract;

THENCE N 00°32'44"W, 25.20 feet continuing along the southerly property line of said Westlake Retail Associates, Ltd., tract;

THENCE N 89°27'16"E, 78.72 feet continuing along the southerly property line of said Westlake Retail Associates, Ltd., tract to the beginning of a non-tangent curve to the left;

THENCE continuing along the southerly property line of said Westlake Retail Associates, Ltd., tract and with said non-tangent curve to the left, an arc distance of 293.43 feet, through a central angle of 79°36'02", having a radius of 211.21 feet, the long chord of which bears N 89°27'16"E, 270.39 feet;

THENCE N 89°27'16"É, 127.87 feet continuing along the southerly property line of said Westlake Retail Associates, Ltd., tract to the southeast property corner of said Westlake Retail Associates, Ltd., tract;

THENCE N 00°07'00"W, 245.16 feet along the east property line of said Westlake Retail Associates, Ltd., tract to the beginning of a curve to the right;

THENCE continuing along the east property line of said Westlake Retail Associates, Ltd., tract and with said curve to the right, an arc distance of 783.77 feet, through a central angle of 17°32'30", having a radius of 2560.00 feet, the long chord of which bears N 08°39'15"E, 780.71 feet;

THENCE N 17°25'30"E, 477.17 feet continuing along the east property line of said Westlake Retail Associates, Ltd., tract to the **Point of Beginning** and containing 41,459,876 square feet or 951.788 acres of land more or less.

PARCEL No. 2

BEING a tract of land situated in the William Huff Survey, Abstract No. 648, Tarrant County Texas and being a portion of that tract of land (Tract 1) as described in a deed to AIL Investment, L.P. as recorded in Deed Volume 13275, Page 542, County Records, Tarrant County, Texas, and being more particularly described as follows:

BEGINNING at the northwest corner of said Tract 1 being a point in the east right-of-way line of former State Highway 377 (now abandoned in this location);

THENCE N89°39'29"E, 30.74 feet along the north line of said Tract 1 to a point in the existing westerly right-of-way line of State Highway 377;

THENCE S10°32'14"W, 395,27 feet along said existing westerly right-of-way line to the beginning of a curve to the right,

THENCE 71.53 feet along the arc of said curve to the right and along said right-of-way line, through a central angle of 00°43'29", whose radius is 5654.58 feet, the long chord of which bears S10°53'10"W, 71.53 feet;

THENCE S89°53'00"W, 154.08 feet, leaving said existing right-of-way line to a point in the west line of said tract 1;

THENCE N24°29'49"E, 504.37 feet along said west line of Tract 1 to the POINT OF BEGINNING, and containing 0.975 acres of land, more or less.

EXHIBIT "B"

PERMITTED EXCEPTIONS

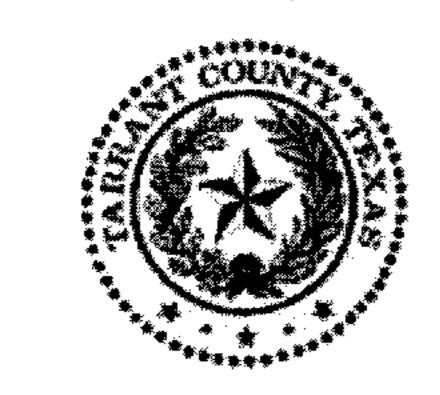
- 1. With respect to any portion of the Property conveyed to Grantor by the Grantor Deed, any matters listed as exceptions in the those respective deeds.
- 2. With respect to any portion of the Property conveyed to Grantor by the Grantor Deed, any matter executed and delivered by Grantor since the dates of such deeds and recorded in the Real Property Records of Denton and Tarrant Counties, Texas.
- 3. Any matter that a current and accurate survey of the Property would reveal.

MICHEAL E JONES 350 N ST PAUL ST STE 2900

DALLAS

TX 75201

Submitter: SUPER SEARCH



SUZANNE HENDERSON
TARRANT COUNTY CLERK
TARRANT COUNTY COURTHOUSE
100 WEST WEATHERFORD
FORT WORTH, TX 76196-0401

<u>DO NOT DESTROY</u> <u>WARNING - THIS IS PART OF THE OFFICIAL RECORD.</u>

Filed For Registration:

07108/2009 11:08 AM

instrument #:

D209481337

D 18 PGS

\$80.00

By:



D209181337

ANY PROVISION WHICH RESTRICTS THE SALE, RENTAL OR USE OF THE DESCRIBED REAL PROPERTY BECAUSE OF COLOR OR RACE IS INVALID AND UNENFORCEABLE UNDER FEDERAL LAW.

Printed by: MC

ATTACHMENT 5 Consent Letter showing Applicant's Right to Use of Land

HW 2421 LAND, LP 9800 Hillwood Parkway, Suite 300 Fort Worth, TX 76177

November 19, 2021

Texas Commission on Environmental Quality Water Availability Division, MC-160 12100 Park 35 Circle Austin, Texas 78753

Re: HW 2421 Land, LP - Consent Letter

To Whom it May Concern,

I, L. Russell Laughlin, in my capacity as Executive Vice President of HW 2421 Land, LP, hereby consent to the use by Independence Water of the 4.79 acre parcel, identified as tracts 1 and 1b in the Jesse Sutton Survey, Abstract 1451 in Tarrant County, Texas, for a water use permit.

Regards,

HW 2421 LAND, LP, a Texas limited partnership

By: HW 2421 Land GP, LLC, a Texas limited liability company, its general partner

Na:

Name:

le: Executive Vice Pre

STATE OF TEXAS
COUNTY OF TARRANT

STEPHANIE WRIGHT
Notary Public, State of Texas
Comm. Expires 01-31-2025
Notary ID 130986511

Notary Public, State of Texas

ATTACHMENT 6

24-hour Pump Test Results

STATE OF TEXAS WELL REPORT for Tracking #330983

Owner: Deloitte University Owner Well #: Well Log 2955

Address: One Deloitte Way Grid #: 32-07-2

Westlake, TX 76262

Well Location: Well #1 One Deloitte Way

Latitude: 32° 59' 05" N

Westlake, TX 76262 Longitude: 097° 12' 07" W

Well County: Tarrant Elevation: No Data

Type of Work: New Well Proposed Use: Irrigation

Drilling Start Date: 5/7/2013 Drilling End Date: 5/14/2013

 Diameter (in.)
 Top Depth (ft.)
 Bottom Depth (ft.)

 Borehole:
 14
 0
 5

11 5 715

Drilling Method: Mud (Hydraulic) Rotary

Borehole Completion: Filter Packed

Top Depth (ft.) Bottom Depth (ft.) Filter Material Size

Filter Pack Intervals: 515 715 Gravel 16/30

Annular Seal Data:

Top Depth (ft.)

Bottom Depth (ft.)

Description (number of sacks & material)

bentonite grout

0 515 200 port cement

Seal Method: **Pumped** Distance to Property Line (ft.): **100+**

Sealed By: **Basic Energy** Distance to Septic Field or other

concentrated contamination (ft.): No Data

Distance to Septic Tank (ft.): No Data

Method of Verification: Customer Verified

Surface Completion: Alternative Procedure Used

Water Level: 575 ft. below land surface on 2013-05-14 Measurement Method: Unknown

Packers: No Data

Type of Pump: Submersible Pump Depth (ft.): 675

Well Tests: Jetted Yield: 50 GPM with 54 ft. drawdown after 24 hours

Water Quality:

Strata Depth (ft.)	Water Type
535-690	paluxy

Chemical Analysis Made: No

Did the driller knowingly penetrate any strata which No

contained injurious constituents?:

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the

driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in

the report(s) being returned for completion and resubmittal.

Company Information:

Russell Langford License Number: 56062 Driller Name:

Comments:

^CLH

Lithology: **DESCRIPTION & COLOR OF FORMATION MATERIAL**

Top (ft.)	Bottom (ft.)	Description
0	1	sandy topsoil
1	4	tan-red clay
4	30	tan clay and shale
30	40	tan-grey clay
40	75	grey clay
75	535	grey clay, shale and limestone
535	555	grey sandy clay and sand
555	574	sand
574	579	grey sandy clay and sand
579	590	sand
590	602	grey sandy clay and sand
602	648	sand
648	660	sandy shale and grey shale
660	690	sand
690	716	grey shale and limestone

Casing: BLANK PIPE & WELL SCREEN DATA

Dia. (in.)	New/Used	Туре	Setting From/To (ft.)
6 new b	olank steel	0-582	.188
6 new .	020' SS ro	d base	screen 582-662 .188
6 new b	olank steel	662-67	73 .188
6 new .	020' SS ro	d base	screen 673-693 .188
6 new k	olank steel	693-71	5 .188

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking Number on your written request.

Texas Department of Licensing and Regulation P.O. Box 12157 Austin, TX 78711 (512) 334-5540



Mechanic

PO Box 16 Stephenville, TX 76401

(254) 965-5924 PHONE - (254) 965-6969 FAX

Independence Water

Bill To:

P.O. No.	Invoice Date	Invoice #
	3/31/2021	70384

Customer Contact Information

Fax: (817) 224-6060 (817) 224-6067

817-903-1986Craig cel

cation Information/Job At:

Pu	mp Model S/N:	Wel	Depth	Pump Set	Water Level
			after th	ey answer, tell	them why there
			press bu	utton and say o	ommand center,
			south o	n westlake, 2n	d gate on rt
	Ft. Worth, TX 76177		on 114,	exit Trophy Cl	ub/Weslake pkw, go
	9800 Hillwood Parkway Suite 300		from int	tersection of 1	70 and 114, Go East

	Motor S/N:				ВЈК
Qty	Description	•		Rate	Amount
2.5	Regular Service Labor			150.00	375.00
1	1" Badger Water Meter			550.00	550.00T
2	1" Meter Coupling			37.46	74.92T
2	1-1/4" x 1" PVC CT BUSHING			1.38	2.76T
2	1 1/4" PVC Coupling			0.74	1.48T
	Reason for call:				
	- Install water meter				
	Findings/Resolution:				
	We installed a 1" badger meter and ran the well wide these it pumped 20.6 gpm and the meter was at 0 to $\frac{1}{2}$	tal gallons. At the			
	pump was doing 20.5 gpm and the total was 29,917.0	06 total gallons.			
	This information is for the Well House #2	2 well.			

Thank you for calling us. If you have any questions please call. **Subtotal** \$1,004.16 Sales Tax (8.25%) \$51.91 **Invoice Total** \$1,056.07

ATTACHMENT 7
Approved Application for Operating Permit from Northern Trinity Groundwater Conservation District

Northern Trinity Groundwater Conservation District

1100 Circle Drive, Suite 300 Fort Worth, Texas 76119 Phone: 817.249.2062 Fax: 817.249.2918 JUN 0 2 2021 BY:

IWCT#1-P

APPLICATION FOR OPERATING PERMIT

<u>IMPORTANT NOTE</u>: PERMIT APPLICANT MUST SUBMIT A WELL REGISTRATION FORM PRIOR TO OR IN CONJUNCTION WITH THE SUBMITTAL OF THIS PERMIT APPLICATION.

Qualifications to Apply for Operating Permit: All new wells that are not exempt from the District's permitting requirements and all new or existing wells that were exempt from the District's permitting requirements, but are substantially altered in a manner that causes the well to lose its exempt status must obtain an Operating Permit from the District. In addition, wells that have previously operated under a Grandfathered Use Permit must obtain an Operating Permit if: (1) the well is substantially altered in a manner that causes the well to be capable of producing more groundwater than is authorized by the Grandfathered Use Permit; (2) the well owner desires to produce more groundwater than is authorized by the Grandfathered Use Permit; OR (3) the well owner desires to change the purpose of use of the water from the well.

<u>Instructions</u>: Fill out this form for each existing well or well system (type or print). Submit permit application form in person at the District's office or by mailing to the District's mailing address provided above. Additional information or explanation may be attached to this application form.

In accordance with District Rule 5.1(F), the information provided by the permit applicant in the spaces below will be incorporated into the permit if a permit is issued by the District. The permit will be granted on the basis of, and contingent upon, the accuracy of the information supplied in this application. A finding that false information has been supplied is grounds for immediate revocation of the permit. In addition, the information given in this permit application will be supplemented by the information provided by the permit applicant in the well registration form that is/was submitted to the District for the existing well.

	Information (R		well: (please ch	eck all that apply)	
	□ Operator	□ Property	Owner -	1517245A		
This application	n is made for a:					
New well	previously		f existing well a the District's s	request for r purpose of u	nore product	existing well or tion/change in perating under a tit
Independence '	Water, L.P			817-224-6000		
Name of Appl	icant			Phone Number	er	
N/A		N	//A			
Alternate Phon	ne	Fax 1	Number	Ema	ail Address	
9800 Hillwood Park	cway, Suite 300		Fort Worth		TX	76177
Mailing Addre	ess		City		State	Zip
Physical Addr	CSS (if different than m	ailing address)	City		State	Zip



Applicant Information Continued	:		BV.	
N/A			D11	
Contact Person (if different from applicant)	Phone Numb	er Fax Num	ber	Email Address
N/A			-	
Mailing Address	City		State	Zip
HW 2421 Land, L. P.	817-224-6000	N/A		
Owner of Property Where Well Is Located	Phone Number	Fax Number	Ema	11
Address (if different than property owner)	City		State	Zip
Mailing Address	City		State	Zip
This application is for (please check Operating Permit for a single well	☐ Operating Perm (where Applicant seeks	nit for a multi-we	of wells tied to	* the same distribution system
Legal description of land on which pr such as survey name/number, abstrac	requesting permit to aut pages if needed)	d (please provid	multi-well syste	n information,
Medlin, Charles Survey Abstract 1084 Tract 1				
(Please provide attachments if available)				
Quantity of water to be produced by t	this well annually (ple	ase specify in ac	cre-feet or	gallons):
9.7MG				
Name and purpose for which water pu	roduced from well wil	l be used:		
If multiple purposes of use, please inc	dicate the amount of w	rater that is used	for each p	ourpose:
Location of use of the water produced Golf Course Adjacent to Well	I from the well:			
Estimated rate at which water will be	withdrawn from well:			
75		gpm		
Maximum pumping capacity of the w	ell (in gallons per min	ute):		
75	2000-100-11-0			
Note that wells equipped to produce 75gpm or r 5.10(b). Applicants required to complete a Hydrog	nore must provide a Hydrog eological Report must publis	eological Report mee h notice in the newsp	ting the requi aper in accord	rements of District Rule lance with Rule 5.10(c).

Well Information Continued: Method of withdrawal from well/type of pump:	JUN 0 2 2021
☐ Turbine ☐ Submersible ☐ Other (please	e specify) BY:
Size of well pump: 20 hp	Depth of well: 740
Size of well (inside diameter of the column pipe and diameter of the well	casing): 6 inches
Duration of time water is expected to be put to benefit a Temporary/short-term use ☑ Seasonal use	icial use under the permit: ☐ Continual use
Is the Applicant a retail public utility as defined by T	Texas Water Code section 13.002? □ Yes ☑ No
If YES, list subdivision(s), CCN service area, or the go	vernmental entity boundaries the well will service:
Will the groundwater withdrawn under this permit be Grandfathered Use Permit? ■ No □ Yes If yes, explain:	used in conjunction with another Operating or
Will the groundwater withdrawn from the well be res No □ Yes If yes, please provide the location	on to which the groundwater will be delivered:
	Purpose of use:
If requesting Operating Permit due to: (1) substantial additional production from a well operating under a C purpose of use of a well operating under a Grandfathe alteration or reason for applying for an Operating Permits of the control of the co	Grandfathered Use Permit; or (3) change the ered Use Permit, please explain the substantial
Grandfathered Use Permit No. (if applicable):	

3. Required Documentation/Attachments to this Application and Fees:

The following documentation, attachments, and fee payments must accompany this application in order for the application to be considered administratively complete:

- A. If the well owner/operator is different than the owner of the property on which the well is located, attach documentation establishing the authority to operate the well for the proposed use;
- B. For applications for <u>new wells</u>, a location map showing the proposed well location and, if applicable, an alternative well location meeting the District's minimum spacing and location requirements, and show all wells in existence within a quarter (1/4) mile radius of the location of the well.
 - For applications for <u>existing wells</u>, a location map showing the well location and all wells in existence within a quarter (1/4) mile radius of the location of the well.
 - (If possible, please provide location map on a 7.5 minute United States Department of Interior Topographic Map and/or provide the latitude and longitude coordinates of the well location as measured by a calibrated GPS instrument);
- C. If available, a legal description, such as survey information, maps, and/or metes and bounds descriptions, of the tract of land on which the well or well system is located;



D. A water conservation	plan or sign here as a declaration that the applicant	will comply with the District's
Management Plan:	The sale of	P(Applicant's signature);

- E. A drought contingency plan if the applicant is required to prepare a drought contingency plan by other law;
- F. If water is to be sold, leased, or transferred to others, whether inside or outside the District, attach legal documents establishing the right for the water to be sold, leased, or transferred, including but not limited to any contract for the sale, lease, or transfer of water;
- G. If water is to be transferred outside the boundaries of the District (Tarrant County), please provide explanation and documentation relevant to the following: (1) availability of water in the District and in the proposed receiving area during the period for which the water supply is requested; (2) projected effect of the proposed transport on aquifer conditions, depletion, subsidence, or effects on existing permit holders or other groundwater users within the District; and (3) how the proposed transport is consistent with the approved regional water plan and certified district management plan;
- H. Applications for either: (1) a well or well field equipped to produce 75 gallons per minute or more; or (2) that request authority to transport groundwater produced within the District's boundaries (Tarrant County) to a location of use outside the District's boundaries, must submit a Hydrogeological Report to the District that meets the requirements of District Rule 5.10(b) and must provide newspaper notice under District Rule 5.10(c);
- I. Payment of applicable fees; and
- J. All permit applicants must provide notice to all landowners and to all well owners of existing registered or permitted wells that are located within the distance radius provided for well spacing in Rule 4.2(a) of the existing well or proposed well that is the subject of the application. Notice provided to landowners and well owners must meet requirements in District Rule 5.3(c)-(d).

A SAMPLE NOTICE IS ATTACHED AT THE END OF THIS APPLICATION FORM. PLEASE RETYPE AND DO NOT MAIL OUT WITHOUT FILLING IN THE BLANKS IN THE SAMPLE NOTICE.

4. Certification:

By signing below, I hereby agree, declare, and certify that:

- A. I will avoid waste, achieve water conservation, and protect groundwater quality in the use of the well or well system and will ensure that the water withdrawn under a permit issued by the District will be put to beneficial use at all times;
- B. I will comply with the District's Rules and all groundwater use permits and plans promulgated by the District; and
- C. I will comply with the District's well plugging and capping guidelines and will report closure to the District and the appropriate state agencies.

Signature of Well Owner or Agent

L. Russell Laughlin

Printed Name

Date

Executive Vice President

Title

I hereby swear or certify that the information in this permit application is true and accurate to the best of my

District to	Complete:	
Operating Permit Number: 47	Public Hearing Date:	6.16.2)
Application:	Initial:	Date: 6.16.2
NTGCD Well Number: N-202 -0 0	Date Permit Issued:	6.16.21

NORTHERN TRINITY GROUP ATION DISTRICT 1100 Circle Drive, Suite 300 District to Complete: Fort Worth, TX 76119 Fax: 817.249.2918 Voice: 817.249.2062 Well Registration No. 1-2021-0110 APPLICATION FOR WELL REG FOR NEW WELL (Well Drilled on or after Dec. 17, 2018) Date Received: By: Registration of new wells required by District Rule 3.3 prior to drilling: A well owner or water well driller, or any other person acting on their behalf, must submit and obtain approval of a registration application and submit a well registration fee and well report deposit with the District before any new well, except leachate wells or monitoring wells, may be drilled, equipped, and completed as set forth under District Rule 3.3. District Rules can be found at www.ntgcd.com. Complete one application for each well. Application date: INCT#1-P -This form may be submitted in person, mail, or fax-Part I - Well Owner and Driller Information: Independence Water, L.P. 817-224-6000 Phone: Well Owner: Craig Schkade Contact: Lma 9800 Hillwood Parkway, Suite 300 Mailing address: City: Fort Worth 76177 State: Zip: Registrant: (if other than Well Owner) Phone: City: Address: State: 817-224-6000 Property Owner: (if other than Well Owner) HW 2421 Land, L.P. Phone: 9800 Hillwood Parkway, Suite 300 City: Fort Worth State: TX Address: Zip: 76177 If Registrant is other than the owner of the property where the proposed well is to be located, please attach documentation to this form establishing the applicable authority to file the application for well registration, to serve as the registrant in lieu of the property owner, and to construct and operate a well for the proposed use. 254-965-5924 Drilling company: Associated Well Services Phone: 56062WKL Driller: Russell Langford Expiration Date: 08/31/21 License # E-mail: Fax: N/A Address: 1215 US-67 City Stephenville State: TX Part II - Well Location: 2451 Westlake Parkway Well site address: Westlake State: TX Zip: 76262 City:

Longitude: 97° 11' 49.73" W

Latitude: 32° 59' 9.90" N

dependence Water, L.P.
Used GIS-ESRI ARC Map Model:
ocation different from the well site?
point outside the boundaries of the District?
Plugged (Plugging Report attached) In Use
equirements in District Rule 4.2? Exception Application Form
er from the well will be used for:
☐ Livestock Watering
and Permitting Requirements)
☐ Industrial/Manufacturing
☑ Golf course irrigation
□ Supplying water for oil or gas production, or supplying water to rig engaged in drilling or exploration operations for oil or gas where water well is not located on same lease or field associated with the oil/gas drilling rig
heck all uses above for water from the pond or impoundment)
Proposed depth to first screen: 590 feet
Proposed depth to first screen: 590 feet
Proposed pump motor size: 20 hp
75 gpm
ATER CONSERVATION DISTRICT
age 2 of 3

Weil Registration No.	Well Owner: 1	ndependence Water	r, h.P.	
Anticipated number of service connection for days out of the year.	ns: N/A	Well will service approxima	tely N/A	individuals
Is a Water Well Closure Plan attached? District and will strictly comply with the well plugg	ging regulations of the	7/0 B	252	closure of the well to the
Is the \$200 Well Report Deposit Attached refundable upon timely submission of we			until receipt of	deposit; deposit is
Is the \$500 New Well Registration Fee A	ttached? X Yes	□ No (registration will not be app	proved until rece	eipt of fee)
Part V — Certification:				
I hereby certify that the information given all water produced from the well that is the L. Russell Laughlio Print Name Print Name				I further certify that (6.2.2) Date (-2.2) Date
DISTRICT TO COMPLETE THIS SEC		111	3 46	
Well Report Deposit Received Date: Well Registration Fee Received Date:	6.7.21	Method/Check No.: /// Method/Check No.:	V	
Exception Fee Received Date: 1 0 peruling furnit Check All Exemptions that Apply:	7.21	Method/Check No.:	V	
Use-based D&L Use-based ag in	тigation 🗆 Use	e-based Rule 2.3 (exempt from Water	er Use Fee only)	
☐ Capacity-based single well ☐ Capa	city-based well sys	tem		
Vell Spacing Compliance: Opes this well location and depth meet min Yes No	imum spacing requ	uirements, not counting those separa	ated vertically by	more than 50 feet?
Vell Spacing Exception Application Form	attached?			
eviewed by: Robert Par	terson	Date of appro-	val: 6 · 10	6.21
The registrant has 120 days (240 days) (240	nd must file the the well report ent action.	e well report with the Distri	ct within 60 he well repor	days of

Application for Well Registration – New Well Page 3 of 3

Revised.190320.TE

Northern Trinity Groundwater Conservation District

1100 Circle Drive, Suite 300 Fort Worth, Texas 76119 Phone: 817.249.2062

Fax: 817.249.2918



IWCT#2-P

APPLICATION FOR OPERATING PERMIT

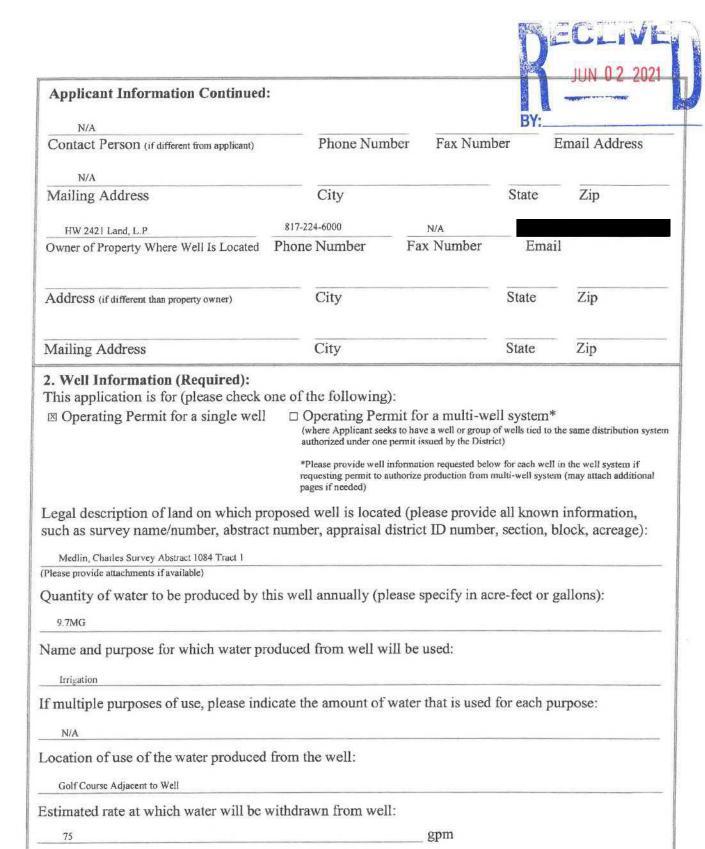
IMPORTANT NOTE: PERMIT APPLICANT MUST SUBMIT A WELL REGISTRATION FORM PRIOR TO OR IN CONJUNCTION WITH THE SUBMITTAL OF THIS PERMIT APPLICATION.

Qualifications to Apply for Operating Permit: All new wells that are not exempt from the District's permitting requirements and all new or existing wells that were exempt from the District's permitting requirements, but are substantially altered in a manner that causes the well to lose its exempt status must obtain an Operating Permit from the District. In addition, wells that have previously operated under a Grandfathered Use Permit must obtain an Operating Permit if: (1) the well is substantially altered in a manner that causes the well to be capable of producing more groundwater than is authorized by the Grandfathered Use Permit; (2) the well owner desires to produce more groundwater than is authorized by the Grandfathered Use Permit; OR (3) the well owner desires to change the purpose of use of the water from the well.

<u>Instructions</u>: Fill out this form for each existing well or well system (type or print). Submit permit application form in person at the District's office or by mailing to the District's mailing address provided above. Additional information or explanation may be attached to this application form.

In accordance with District Rule 5.1(F), the information provided by the permit applicant in the spaces below will be incorporated into the permit if a permit is issued by the District. The permit will be granted on the basis of, and contingent upon, the accuracy of the information supplied in this application. A finding that false information has been supplied is grounds for immediate revocation of the permit. In addition, the information given in this permit application will be supplemented by the information provided by the permit applicant in the well registration form that is/was submitted to the District for the existing well.

	nformation (Requor this Operating Per	mit is the well: (please ch	eck all that apply)		
○ Owner	□ Operator □	Property Owner			
This application	is made for a:				
⊠ New well	□ Substantial alteration of existing well previously exempt from the District's permitting requirements		☐ Substantial alteration of existing well or request for more production/change in purpose of use to well operating under a Grandfathered Use Permit		
Independence W	ater, L.P		817-224-6000		
Name of Applic	cant	· · · · · · · · · · · · · · · · · · ·	Phone Numbe	er	
N/A N		N/A			·
Alternate Phone Fax N		Fax Number	Eine	an Address	
9800 Hillwood Parkway, Suite 300		Fort Worth		TX	76177
Mailing Address		City		State	Zip
	X				
Physical Address (if different than mailing address)		g address) City		State	Zip



*Note that wells equipped to produce 75gpm or more must provide a Hydrogeological Report meeting the requirements of District Rule 5.10(b). Applicants required to complete a Hydrogeological Report must publish notice in the newspaper in accordance with Rule 5.10(c).

Maximum pumping capacity of the well (in gallons per minute):

					HINL D.	2021
		Continued: awal from well/	type of nump		JON UZ	2021
□ Turbi		Submersible	☐ Other (please sp	ecify)	BY:	Reco
L Iuio	110		□ Other (prease sp			
Size of	well pump	: 20 hp		Depth of well	1:740	
Size of	well (inside d	iameter of the column	pipe and diameter of the well casi	ng): 6 inches		
Duratio	n of time w	ater is expected	d to be put to beneficia	al use under the pe	ermit:	
□ Temp	orary/shor	t-term use	■ Seasonal use	\square Continual	use	
Is the A	pplicant a	retail public uti	lity as defined by Texa	s Water Code sec	ction 13.002? Y	es 🗵 No
If YES,	ist subdivi	sion(s), CCN sea	rvice area, or the govern	nmental entity bou	ndaries the well wi	ll service:
	groundwa thered Use		under this permit be us	ed in conjunction	with another Oper	rating or
No	□ Yes	If yes, explai	n:			
Will the	groundwa	ter withdrawn f	rom the well be resold	, leased, or otherv	vise transferred to	others?
⊠ No	□ Yes	If yes, please	provide the location to	which the groun	dwater will be del	ivered:
				Purpose of use:		
additiona purpose	al production of use of a	on from a well owell operating	to: (1) substantial alterpretating under a Grandfathered or an Operating Permit	ndfathered Use Pe Use Permit, plea	ermit; or (3) change	e the
Grandfat	hered Use	Permit No. (if a	applicable):			

3. Required Documentation/Attachments to this Application and Fees:

The following documentation, attachments, and fee payments must accompany this application in order for the application to be considered administratively complete:

- A. If the well owner/operator is different than the owner of the property on which the well is located, attach documentation establishing the authority to operate the well for the proposed use;
- B. For applications for <u>new wells</u>, a location map showing the proposed well location and, if applicable, an alternative well location meeting the District's minimum spacing and location requirements, and show all wells in existence within a quarter (1/4) mile radius of the location of the well.

For applications for <u>existing wells</u>, a location map showing the well location and all wells in existence within a quarter (1/4) mile radius of the location of the well.

- (If possible, please provide location map on a 7.5 minute United States Department of Interior Topographic Map and/or provide the latitude and longitude coordinates of the well location as measured by a calibrated GPS instrument);
- C. If available, a legal description, such as survey information, maps, and/or metes and bounds descriptions, of the tract of land on which the well or well system is located;

ECLIVE

JUN 02 2021

- D. A water conservation plan or sign here as a declaration that the applicant will management Plan:

 Management Plan:

 (Applicant's signature),
- E. A drought contingency plan if the applicant is required to prepare a drought contingency plan by other law;
- F. If water is to be sold, leased, or transferred to others, whether inside or outside the District, attach legal documents establishing the right for the water to be sold, leased, or transferred, including but not limited to any contract for the sale, lease, or transfer of water;
- G. If water is to be transferred outside the boundaries of the District (Tarrant County), please provide explanation and documentation relevant to the following: (1) availability of water in the District and in the proposed receiving area during the period for which the water supply is requested; (2) projected effect of the proposed transport on aquifer conditions, depletion, subsidence, or effects on existing permit holders or other groundwater users within the District; and (3) how the proposed transport is consistent with the approved regional water plan and certified district management plan;
- H. Applications for either: (1) a well or well field equipped to produce 75 gallons per minute or more; or (2) that request authority to transport groundwater produced within the District's boundaries (Tarrant County) to a location of use outside the District's boundaries, must submit a Hydrogeological Report to the District that meets the requirements of District Rule 5.10(b) and must provide newspaper notice under District Rule 5.10(c);
- I. Payment of applicable fees; and
- J. All permit applicants must provide notice to all landowners and to all well owners of existing registered or permitted wells that are located within the distance radius provided for well spacing in Rule 4.2(a) of the existing well or proposed well that is the subject of the application. Notice provided to landowners and well owners must meet requirements in District Rule 5.3(c)-(d).

A SAMPLE NOTICE IS ATTACHED AT THE END OF THIS APPLICATION FORM. PLEASE RETYPE AND DO NOT MAIL OUT WITHOUT FILLING IN THE BLANKS IN THE SAMPLE NOTICE.

4. Certification:

By signing below, I hereby agree, declare, and certify that:

- A. I will avoid waste, achieve water conservation, and protect groundwater quality in the use of the well or well system and will ensure that the water withdrawn under a permit issued by the District will be put to beneficial use at all times:
- B. I will comply with the District's Rules and all groundwater use permits and plans promulgated by the District; and
- C. I will comply with the District's well plugging and capping guidelines and will report closure to the District and the appropriate state agencies.

Signature of Well Owner or Agent

L. Russell Caughlin

Printed Name

Date

Executive Vice President

Title

I hereby swear or certify that the information in this permit application is true and accurate to the best of my

Operating Permit Númber: 49 Public Hearing Date: 6.16.21

Application: approved denied Initial: BP Date: 6.16.21

NTGCD Well Number: N-2021-0||| Date Permit Issued: 6.16.21

NORTHERN TRINITY GROUND MATION DISTRICT 1100 Circle Drive, Suite 300 District to Complete: Fort Worth, TX 76119 2100 208 Fax: 817.249.2918 Invoice # Voice: 817.249.2062 Well Registration No. APPLICATION FOR WELL REGISTRATION FOR NEW WELL (Well Drilled on or after Dec. 17, 2018) Date Received: By: Registration of new wells required by District Rule 3.3 prior to drilling: A well owner or water well driller, or any other person acting on their behalf, must submit and obtain approval of a registration application and submit a well registration fee and well report deposit with the District before any new well, except leachate wells or monitoring wells, may be drilled, equipped, and completed as set forth under District Rule 3.3. District Rules can be found at www.ntgcd.com. Complete one application for each well. IWCT#2-P

-This form may be submitted in person, mail, or fax-

Part I - Well Owner and Driller Information: 817-224-6000 Independence Water, L.P. Well Owner: Phone: Contact: Craig Schkade N/A Email Fax: Mailing address: 9800 Hillwood Parkway, Suite 300 Zip: 76177 Fort Worth State: Registrant: (if other than Well Owner) Phone: Address: City: State: Zip: Property Owner: (if other than Well Owner) HW2421 Land, L.P. 817-224-6000 Phone: 9800 Hillwood Parkway, Suite 300 City: _ Fort Worth Zip: 76177 Address: State: TX If Registrant is other than the owner of the property where the proposed well is to be located, please attach documentation to this form establishing the applicable authority to file the application for well registration, to serve as the registrant in lieu of the property owner, and to construct and operate a well for the proposed use. Associated Well Services Phone: 254-965-5924 Drilling company: 56062WKL License # Expiration Date: 08/31/21 Driller: Russell Langford E-mail: Fax: State: TX Stephenville Zip: 76401 1215 US-67 City Address: Part II - Well Location: 2451 Westlake Parkway Well site address: Westlake State: TX Zip: 76262 City: 32° 59' 18 93" N Longitude: 97° 12' 11 69" W Latitude:

Well Registration No. Well Owner: In	dependence Nater, L.P.
GPS used to measure latitude and longitude: Manufacturer:_	
Will the groundwater withdrawn from the well be used in a lo ▼ No	cation different from the well site?
☐ Yes Location where used:	
Describe use:	in the land of the District
Will the groundwater produced be transported for use at any p ☑ No ☐ Yes Explain:	
s this a replacement well? No	
☐ Yes Indicate status of the old well: ☐ Capped ☐	
Explain:	
Oo you intend to apply for an exception to the well spacing rec ☑ No ☐ Yes If yes, please attach a completed Well Spacing Ex	
1 tes 17 yes, please attach a completed well spacing Ex	Ception Application Form
art III - Purpose for Water Use:	
Tark (x) all appropriate boxes that describe what the wate	r from the well will be used for:
se-based Exemption (Subject to Rule 2.1)	
☐ Domestic Use (supplied to single family residence)	☐ Livestock Watering
3.00	
Non-Exempt Use (Subject to Rule 2.2- Fee Payment, Metering, Reporting, an	d Permitting Requirements) Industrial/Manufacturing
☐ Municipal / Public Water System	5772 State of the
Commercial/ Small Business	☐ Golf course irrigation
□ Solely to supply water for rig actively engaged in drilling or exploration operations for an oil or gas well, and the water well is located on the same lease or field associated with the oil/gas drilling rig (If you check this box, is the owner of the water well the same person who holds the oil/gas well permit issued by the Railroad Commission? YesNo)	☐ Supplying water for oil or gas production, or supplying water to rig engaged in drilling or exploration operations for oil or gas where water well is not located on same lease or field associated with the oil/gas drilling rig
☐ Filling a pond or other surface impoundment (ch	neck all uses above for water from the pond or impoundment)
☐ Other:	
art IV — Well Information:	
roposed total depth: 740 feet	Proposed depth to first screen: 590 feet
roposed inside diameter of casing: 6 inches	Proposed pump motor size: 20 hp
roposed maximum designed production capacity of pump:	75 gpm
	TER CONSERVATION DISTRICT 1 Registration – New Well ge 2 of 3 JUN 0 2 2021
evised.190320.TE	JUN 0 2 2021

Well Registration No.	Well Owner: In	dependence	Water, L.P.	
Anticipated number of service connections for days out of the year.	S:N/A	Well will service	e approximately N/A	individuals
Is a Water Well Closure Plan attached? District and will strictly comply with the well plugging.	ng regulations of the T			my closure of the well to the
Is the \$200 Well Report Deposit Attached refundable upon timely submission of well	? ⊠ Yes □ No	(registration will not	be approved until receipt	of deposit; deposit is
Is the \$500 New Well Registration Fee Att	ached? 🗵 Yes	□ No (registration w	vill not be approved until r	eceipt of fee)
Part V — Certification:				
I hereby certify that the information given hall water produced from the well that is the Lessell Laughlin Print Name Print Name			nes be put to beneficial use	그리고 아내는 아내는 아니라는 아니라 아내는 아니라 아내는 아니는 바라를 하는데 아니라 되었다.
DISTRICT TO COMPLETE THIS SECT	E 1201 17000 011		¥ v .	
Well Report Deposit Received Date:	6.1.21	Method/Check No.:	11/346	
Well Registration Fee Received Date:	6.7.21	Method/Check No.:	~	
Exception Fee Received Date: Descriptions that Apply:	6.7.21	Method/Check No.:	~	
☐ Use-based D&L ☐ Use-based ag irr	igation 🗆 Use	-based Rule 2.3 (exem	pt from Water Use Fee on	ly)
☐ Capacity-based single well ☐ Capaci	ity-based well sys	tem		
Vell Spacing Compliance:	CC	M 10 M2		
yes this well location and depth meet minir	num spacing requ	irements, not counting	those separated vertically	by more than 50 feet?
Vell Spacing Exception Application Form at Yes No	tached?			
evicwed by: Robert Par	terson	, L	Date of approval: 6.	16.21
	d must file the he well report action. TY GROUNDW	e well report with	the District within 6 eiture of the well rep	0 days of

ATTACHMENT 8

Addendum to Worksheet 5.0

Addendum to Worksheet 5.0

1.d.1 Photographs of the stream at the diversion point or dam locations.

Photographs of the diversion point, reservoir, and shoreline vegetation are provided below. The direction each photo is included in the descriptions associated with each. A photograph location map is included in **Attachment 3, Sheet 5**.



Photograph 1. View of eastern shore of the reservoir near the diversion point. View is to the south (January 20, 2022).



Photograph 2. View to the west of the dam of reservoir (January 20, 2022).



Photograph 3. View to the east from near the center of the dam of the reservoir (January 20, 2022).



Photograph 4. View to the east from near the center of the dam of the reservoir (January 20, 2022).



Photograph 5. View to the east of the dam of reservoir (January 20, 2022).



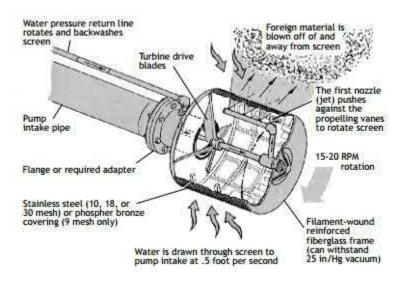
Photograph 6. View to the south of dam of reservoir (January 20, 2022).

2.a Indicate the measures the applicant will take to avoid impingement and entrainment of aquatic organisms.

The applicant will take reasonable measures to avoid impingement and entrainment of aquatic resources by the use of a SCS6 self-cleaning lake screen on the intake pipe of the diversion point. The self-cleaning lake screen has an aluminum screen with 3/32" holes. Specs for the SCS6 is provided below.

Model #	Strainer Capacity GPM	m³/hr	GPM Used to Backwash	Pressure Needed to Backwash	Supply Line Size	Screen Dimensions Height x Width	Weight (lbs.)	Overall Height
SCS6	625	142	24	60 psi	1"	14.25" x 16.5"	25	26"

A diagram of the self-cleaning screen is provided below.



2.b An assessment of the adequacy of the quantity and quality of flows remaining after the proposed diversion to meet instream uses and bay and estuary freshwater inflow requirements.

The application only requests to discharge and subsequently divert groundwater. The amount of water diverted will not exceed the amount of water discharge, less loses, therefore there should be not changes to downstream instream flows or freshwater inflows.

If groundwater is the alternate source, or groundwater or other surface water will be discharged into a watercourse provide:

a. reasonably current water chemistry information, including but not limited to the table below.

A summary for four existing Paluxy wells is included below. Full analytical results can be found in Attachment 9. An exhibit showing the locations of each of these well is included in **Attachment 3, Sheet 6.**

	Table 1. Summary Water Chemistry Results for DU North Well								
Parameter Avg. Conc.		Max Conc.	No. of Samples	Sample Type	Sample Data/Time				
Sulfate, mg/L		83.3	1	Water	2/1/2021				
Chloride, mg/L		12.3	1	Water	2/1/2021				
Total Dissolved Solids, mg/L		621	1	Water	2/1/2021				
pН		8.9	1	Water	2/1/2021				
Temperature, C ^o		25	1	Water	2/1/2021				

	Table 2. Summary Water Chemistry Results for DU South Well									
Parameter	Avg. Conc.	Max Conc.	No. of Samples	Sample Type	Sample Data/Time					
Sulfate, mg/L		42.1	1	Water	2/1/2021					
Chloride, mg/L		6.9	1	Water	2/1/2021					
Total Dissolved Solids, mg/L		489	1	Water	2/1/2021					
рН		9.2	1	Water	2/1/2021					
Temperature, C ^o		25	1	Water	2/1/2021					

Table 3. Summary Water Chemistry Results for Well House #1									
Parameter Avg. Conc.		Max Conc.	No. of Samples	Sample Type	Sample Data/Time				
Sulfate, mg/L		46.6	1	Water	3/16/2021				
Chloride, mg/L		6.9	1	Water	3/16/2021				
Total Dissolved Solids, mg/L		489	1	Water	3/16/2021				
рН		9.1	1	Water	3/16/2021				
Temperature, C ^o		27	1	Water	3/16/2021				

Table 4. Summary Water Chemistry Results for Well House #2									
Parameter	Avg. Conc.	Max Conc.	No. of Samples	Sample Type	Sample Data/Time				
Sulfate, mg/L		40.4	1	Water	5/7/2021				
Chloride, mg/L		6.67	1	Water	5/7/2021				
Total Dissolved Solids, mg/L		502	1	Water	5/7/2021				
рН		9.22	1	Water	5/7/2021				
Temperature, C ^o		28	1	Water	5/7/2021				

- b. All of these wells withdraw water from the Paluxy aquifer. The depth of the wells was:
 - DU North well 715 feet
 - DU South well unknown, but assumed to be approximately the same depth as DU North well
 - Wells House #1 682 feet
 - Well House #2 685 feet

ATTACHMENT 9

Analytical Results

(972)727-1123



February 12, 2021

Chris Hamilton Peloton Land Solutions 9800 Hillwood Parkway Fort Worth, TX 76177

RE: Project: Well Water Testing

Pace Project No.: 75149391

Dear Chris Hamilton:

Enclosed are the analytical results for sample(s) received by the laboratory on February 01, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace National Mt. Juliet
- Pace Analytical Services Corpus Christi
- Pace Analytical Services Dallas
- Pace Analytical Services Fort Worth

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Amy Bryant

(972)727-1123 Project Manager

Enclosures







CERTIFICATIONS

Project: Well Water Testing

Pace Project No.: 75149391

Pace Analytical Services Dallas

Texas Certification T104704232-20-32

400 West Bethany Dr Suite 190, Allen, TX 75013

Florida Certification #: E871118

EPA# TX00074

Kansas Certification #: E-10388

Arkansas Certification #: 88-0647

Oklahoma Certification #: 8727 Louisiana Certification #: 30686

Iowa Certification #: 408

Pace Analytical Services Fort Worth

Texas Certificatiion T104704232-20-32

2657 Gravel Dr, Fort Worth, Texas 76118

EPA# TX00074

Pace Analytical Services National

12065 Lebanon Road, Mt. Juliet, TN 37122

Alabama Certification #: 40660

Alaska Certification 17-026

Arizona Certification #: AZ0612

Arkansas Certification #: 88-0469

California Certification #: 2932

Canada Certification #: 1461.01

Colorado Certification #: TN00003

Connecticut Certification #: PH-0197

DOD Certification: #1461.01

EPA# TN00003

Florida Certification #: E87487

Georgia DW Certification #: 923

Georgia Certification: NELAP

Idaho Certification #: TN00003

Illinois Certification #: 200008

Indiana Certification #: C-TN-01

Iowa Certification #: 364

Kansas Certification #: E-10277

Kentucky UST Certification #: 16

Kentucky Certification #: 90010 Louisiana Certification #: Al30792

Louisiana DW Certification #: LA180010 Maine Certification #: TN0002

Maryland Certification #: 324

Massachusetts Certification #: M-TN003

Michigan Certification #: 9958

Minnesota Certification #: 047-999-395

Mississippi Certification #: TN00003

Missouri Certification #: 340 Montana Certification #: CERT0086

Nebraska Certification #: NE-OS-15-05

Nevada Certification #: TN-03-2002-34

New Hampshire Certification #: 2975

New Jersey Certification #: TN002

New Mexico DW Certification

New York Certification #: 11742

North Carolina Aquatic Toxicity Certification #: 41

North Carolina Drinking Water Certification #: 21704

North Carolina Environmental Certificate #: 375

North Dakota Certification #: R-140

Ohio VAP Certification #: CL0069

Oklahoma Certification #: 9915

Oregon Certification #: TN200002

Pennsylvania Certification #: 68-02979

Rhode Island Certification #: LAO00356 South Carolina Certification #: 84004

South Dakota Certification

Tennessee DW/Chem/Micro Certification #: 2006

Texas Certification #: T 104704245-17-14

Texas Mold Certification #: LAB0152

USDA Soil Permit #: P330-15-00234

Utah Certification #: TN00003

Vermont Dept. of Health: ID# VT-2006

Virginia Certification #: VT2006

Virginia Certification #: 460132

Washington Certification #: C847

West Virginia Certification #: 233

Wisconsin Certification #: 998093910 Wyoming UST Certification #: via A2LA 2926.01

A2LA-ISO 17025 Certification #: 1461.01

A2LA-ISO 17025 Certification #: 1461.02

AIHA-LAP/LLC EMLAP Certification #:100789

Pace Analytical Services Corpus Christi

2209 North Padre Island Drive - Suite K, Corpus Christi,

TX 78408

Texas Certification: T104704232-20-32





SAMPLE SUMMARY

Project: Well Water Testing

Pace Project No.: 75149391

Lab ID	Sample ID	Matrix	Date Collected	Date Received
75149391001	South Well	Water	02/01/21 09:15	02/01/21 10:05
75149391002	North Well	Water	02/01/21 09:30	02/01/21 10:05





SAMPLE ANALYTE COUNT

Project: Well Water Testing

Pace Project No.: 75149391

ab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
5149391001	South Well	SM 4500-Cl G	MLW	1	PASI-CC
		SM 4500NorgB	MLW	1	PASI-CC
		SM 9223, Colilert	ALD	2	PASI-FTW
		EPA 6010B	CCE	1	PAN
		EPA 200.7	CDP	22	PASI-D
		EPA 245.1	NCC	1	PASI-D
		SM 2520B Modified	СО	1	PAN
		Calculated	CCE	1	PAN
		EPA 120.1	LNM1	1	PASI-D
		EPA 180.1	JAP2	1	PASI-D
		SM 2320B	JAP2	5	PASI-D
		SM 2540C	LNM1	1	PASI-D
		SM 2540D	LNM1	1	PASI-D
		SM 4500-H+B	JAP2	1	PASI-D
		SM 5210B	LNM1	1	PASI-D
		40CFR PART 432.2	40CFR PART 432.2 JAP2	1	PASI-D
		EPA 300.0 JAP2	4	PASI-D	
		EPA 353.2	JAP2	3	PASI-D
		SM 4500-NH3 H	JAP2	1	PASI-D
		SM 4500-P E	LNM1	1	PASI-D
		SM 5310C	JAP2	1	PASI-D
		SM 4500-P E	AME	1	PASI-D
5149391002	North Well	SM 4500-CI G	MLW	1	PASI-CC
		SM 4500NorgB	MLW	1	PASI-CC
		SM 9223, Colilert	ALD	2	PASI-FTW
		EPA 6010B	CCE	1	PAN
		EPA 200.7	CDP	22	PASI-D
		EPA 245.1	NCC	1	PASI-D
		SM 2520B Modified	СО	1	PAN
		Calculated	CCE	1	PAN
		EPA 120.1	LNM1	1	PASI-D
		EPA 180.1	JAP2	1	PASI-D
		SM 2320B	JAP2	5	PASI-D
		SM 2540C	EIG	1	PASI-D
		SM 2540D	LNM1	1	PASI-D
		SM 4500-H+B	JAP2	1	PASI-D
		SM 5210B	LNM1	1	PASI-D





SAMPLE ANALYTE COUNT

Project: Well Water Testing

Pace Project No.: 75149391

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
	•	40CFR PART 432.2	JAP2	1	PASI-D
		EPA 300.0	JAP2	4	PASI-D
		EPA 353.2	JAP2	3	PASI-D
		SM 4500-NH3 H	JAP2	1	PASI-D
		SM 4500-P E	LNM1	1	PASI-D
		SM 5310C	JAP2	1	PASI-D
		SM 4500-P E	AME	1	PASI-D

PAN = Pace National - Mt. Juliet
PASI-CC = Pace Analytical Services - Corpus Christi
PASI-D = Pace Analytical Services - Dallas
PASI-FTW = Pace Analytical Services - Fort Worth



Project: Well Water Testing

Pace Project No.: 75149391

Date: 02/12/2021 05:33 PM

Parameters 4500CL G Chlorine, Residual CC Chlorine, Total Residual CC 4500 Total Kjeldahl Nitrog Nitrogen, Kjeldahl, Total FWSC Total Ecoli	Pace Analytic ND Analytical Me Pace Analytic 1.2 Analytical Me Pace Analytic	mg/L ethod: SM 450 cal Services - mg/L ethod: SM 922	Corpus Christi 0.050 00NorgB Preparation Corpus Christi 0.040		Prepared	Analyzed 02/10/21 16:49	CAS No. 9 7782-50-5	- Qual
Chlorine, Total Residual CC 4500 Total Kjeldahl Nitrog Nitrogen, Kjeldahl, Total FWSC Total Ecoli	Pace Analytic ND Analytical Me Pace Analytic 1.2 Analytical Me Pace Analytic	mg/L ethod: SM 450 cal Services - mg/L ethod: SM 922	Corpus Christi 0.050 00NorgB Preparation Corpus Christi 0.040	n Method	d: SM 4500Norgl		9 7782-50-5	H6
CC 4500 Total Kjeldahl Nitrog Nitrogen, Kjeldahl, Total FWSC Total Ecoli	ND Analytical Me Pace Analytic 1.2 Analytical Me Pace Analytic	mg/L ethod: SM 450 cal Services - mg/L ethod: SM 922	0.050 00NorgB Preparation Corpus Christi 0.040	n Method	d: SM 4500Norgl		9 7782-50-5	H6
CC 4500 Total Kjeldahl Nitrog Nitrogen, Kjeldahl, Total FWSC Total Ecoli	Analytical Me Pace Analytic 1.2 Analytical Me Pace Analytic	ethod: SM 450 cal Services - mg/L ethod: SM 922	00NorgB Preparation Corpus Christi 0.040	n Method	d: SM 4500Norgl		9 7782-50-5	H6
Nitrogen, Kjeldahl, Total FWSC Total Ecoli	Pace Analytic 1.2 Analytical Me Pace Analytic	cal Services - mg/L ethod: SM 922	Corpus Christi 0.040		d: SM 4500Norgl	3		
FWSC Total Ecoli	Analytical Me Pace Analytic	ethod: SM 922		4				
	Pace Analytic			1	02/08/21 09:42	02/08/21 15:13	3 7727-37-9	
Total California		cal Services -	23, Colilert Preparation Preparation Prof. Worth	on Meth	od: SM 9223, Co	olilert		
Total Coliforms	<1.0	MPN/100m	L 1.0	1	02/01/21 17:00	02/02/21 17:09	9	
Escherichia coli (E.coli)	<1.0	MPN/100m	L 1.0	1	02/01/21 17:00	02/02/21 17:09	9	
Metals (ICP) 6010B	Analytical Me		10B Preparation Me	thod: 30	15			
Silicon	5.64	mg/L	0.200	1	02/04/21 19:12	02/05/21 09:3	3 7440-21-3	
200.7 Metals, Total	•	ethod: EPA 20 cal Services -	0.7 Preparation Metl Dallas	hod: EP	A 200.7			
Aluminum	ND	ug/L	500	1	02/04/21 11:40	02/05/21 12:4:	2 7429-90-5	
Antimony	ND	ug/L	25.0	1	02/04/21 11:40	02/05/21 12:42	2 7440-36-0	
Arsenic	ND	ug/L	20.0	1	02/04/21 11:40	02/05/21 12:42	2 7440-38-2	
Barium	ND	ug/L	10.0	1	02/04/21 11:40	02/05/21 12:42	2 7440-39-3	
Beryllium	ND	ug/L	1.0	1	02/04/21 11:40	02/05/21 12:42	2 7440-41-7	
Boron	400	ug/L	100	1	02/04/21 11:40	02/05/21 12:42	2 7440-42-8	
Cadmium	ND	ug/L	5.0	1	02/04/21 11:40	02/05/21 12:4:	2 7440-43-9	
Calcium	ND	ug/L	1000	1	02/04/21 11:40	02/05/21 12:4:	2 7440-70-2	
Chromium	ND	ug/L	7.0	1	02/04/21 11:40			
Copper	ND	ug/L	20.0	1	02/04/21 11:40			
ron	ND	ug/L	500	1		02/05/21 12:42		
_ead	ND	ug/L	10.0	1	02/04/21 11:40			
/lagnesium	ND	ug/L	1000	1		02/05/21 12:4:		
/langanese	ND	ug/L	50.0	1	02/04/21 11:40			
Nickel	ND	ug/L	10.0	1	02/04/21 11:40			
Potassium	ND	ug/L	1000	1	02/04/21 11:40			
Selenium	ND	ug/L	20.0	1	02/04/21 11:40			
Silver	ND	ug/L	5.0	1		02/05/21 12:4:		
Sodium Strontium	210000 67.4	ug/L	1000 5.0	1 1	02/04/21 11:40 02/04/21 11:40			
Hardness, Total(SM 2340B)	3330	ug/L ug/L	5.0	1	02/04/21 11:40			
Zinc	31.1	ug/L ug/L	25.0	1	02/04/21 11:40			
245.1 Mercury	•	ethod: EPA 24 cal Services -	5.1 Preparation Met	hod: EP	A 245.1			
Mercury	ND	ug/L	0.20	1	02/04/21 11:30	02/04/21 16:11	5 7439-07-6	



Project: Well Water Testing

Pace Project No.: 75149391

Date: 02/12/2021 05:33 PM

Sample: South Well	Lab ID: 75	149391001	Collected: 02/01/2	1 09:15	Received: 02	/01/21 10:05 N	fatrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Wet Chemistry 2520 B-2011	Analytical Me Pace Nationa		0B Modified Prepar	ation Me	ethod: 2520 B-20	11		
Salinity	0.437	PSU	0.0500	1	02/04/21 12:00	02/04/21 12:00		
Calculated Results	Analytical Me Pace Nationa		ted Preparation Met	hod: Ca	lc.			
Silica	12.1	mg/L	0.428	1	02/05/21 09:33	02/05/21 09:33	7631-86-9	
120.1 Specific Conductance 25C	Analytical Me Pace Analytic							
Specific Conductance	858	umhos/cm	1.0	1		02/08/21 16:02		
180.1 Turbidity	Analytical Me Pace Analytic							
Turbidity	ND	NTU	1.5	1		02/03/21 13:24		H1
2320B Alkalinity	Analytical Me Pace Analytic							
Alkalinity, Hydroxide (CaCO3) Alkalinity, Phenolphthalein Alkalinity, Total as CaCO3 Alkalinity,Bicarbonate (CaCO3) Alkalinity,Carbonate (CaCO3)	ND 78.0 414 258 156	mg/L mg/L mg/L mg/L mg/L	20.0 20.0 20.0 20.0 20.0	1 1 1 1		02/08/21 13:36 02/08/21 13:36 02/08/21 13:36 02/08/21 13:36 02/08/21 13:36		
2540C Total Dissolved Solids	Analytical Me							
Total Dissolved Solids	489	mg/L	25.0	1		02/03/21 17:49		
2540D Total Suspended Solids	Analytical Me							
Total Suspended Solids	ND	mg/L	2.5	1		02/02/21 16:26		
4500H+ pH, Electrometric	Analytical Me							
pH at 25 Degrees C	9.2	Std. Units	0.10	1		02/08/21 13:07		H3,H6
5210B BOD, 5 day	Analytical Me Pace Analytic		0B Preparation Met Dallas	hod: SM	1 5210B			
BOD, 5 day	ND	mg/L	2.0	1	02/03/21 06:43	02/08/21 09:51		
Total Nitrogen Calculation	Analytical Me							
Nitrogen	1.4	mg/L	0.10	1		02/08/21 16:30	7727-37-0	



Project: Well Water Testing

Pace Project No.: 75149391

Date: 02/12/2021 05:33 PM

Sample: South Well	Lab ID: 751	49391001	Collected: 02/01/2	1 09:15	Received: 02	2/01/21 10:05	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Meth	nod: EPA 30	0.00					
	Pace Analytica	l Services -	Dallas					
Bromide	ND	mg/L	0.40	1		02/05/21 21:36	24959-67-9	
Chloride	6.9	mg/L	0.80	1		02/05/21 21:36	6 16887-00-6	
Fluoride	ND	mg/L	0.50	1		02/05/21 21:36	6 16984-48-8	
Sulfate	42.1	mg/L	7.0	10		02/05/21 22:29	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Meth	nod: EPA 3	53.2					
	Pace Analytica	I Services -	Dallas					
Nitrogen, Nitrate	0.14	mg/L	0.050	1		02/03/21 09:43	3	
Nitrogen, Nitrite	ND	mg/L	0.050	1		02/03/21 09:43	3	H1
Nitrogen, NO2 plus NO3	0.16	mg/L	0.050	1		02/03/21 09:43	3	H1
4500 Ammonia Water	Analytical Meth	nod: SM 45	00-NH3 H					
	Pace Analytica	I Services -	Dallas					
Nitrogen, Ammonia	0.56	mg/L	0.10	1		02/08/21 17:12	2 7664-41-7	
4500PE Orthophosphate	Analytical Meth	nod: SM 45	00-P E					
	Pace Analytica	I Services -	Dallas					
Orthophosphate as P	0.047	mg/L	0.040	1		02/03/21 09:13	3	F6
5310C TOC	Analytical Meth	nod: SM 53	10C					
	Pace Analytica	l Services -	Dallas					
Total Organic Carbon	1.4	mg/L	1.0	1		02/05/21 14:43	3 7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Meth	nod: SM 45	00-P E Preparation N	/lethod: S	SM4500-P B			
,	Pace Analytica		•					
Phosphorus	ND	mg/L	0.050	1	02/05/21 12:31	02/05/21 15:02	2 7723-14-0	
•		3					-	



Project: Well Water Testing

Pace Project No.: 75149391

Date: 02/12/2021 05:33 PM

Sample: North Well	Lab ID: 75	149391002	Collected: 02/01/2	1 09:30	Received: 02	2/01/21 10:05 N	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
4500CL G Chlorine, Residual CC	Analytical Me	ethod: SM 4500	-CI G					
	Pace Analytic	cal Services - C	orpus Christi					
Chlorine, Total Residual	ND	mg/L	0.050	1		02/10/21 16:49	7782-50-5	H6
CC 4500 Total Kjeldahl Nitrog	-	ethod: SM 4500 cal Services - C	NorgB Preparation Corpus Christi	Method	l: SM 4500Norgl	3		
Nitrogen, Kjeldahl, Total	0.88	mg/L	0.040	1	02/08/21 09:42	02/08/21 15:14	7727-37-9	
FWSC Total Ecoli	•	ethod: SM 9223 cal Services - F	, Colilert Preparation	n Meth	od: SM 9223, Co	olilert		
Total Coliforms	<1.0	MPN/100mL	1.0	1	02/01/21 17:00	02/02/21 17:09		
Escherichia coli (E.coli)	<1.0	MPN/100mL	1.0	1	02/01/21 17:00	02/02/21 17:09		
Metals (ICP) 6010B	Analytical Me Pace Nationa		OB Preparation Me	hod: 30	15			
Silicon	5.28	mg/L	0.200	1	02/04/21 19:12	02/05/21 09:36	7440-21-3	
200.7 Metals, Total	Analytical Me	thod: EPA 200	.7 Preparation Meth	nod: EP	A 200.7			
	•	cal Services - D	•					
Aluminum	ND	ug/L	500	1	02/04/21 11:40	02/05/21 12:58	7429-90-5	
Antimony	ND	ug/L	25.0	1	02/04/21 11:40	02/05/21 12:58	7440-36-0	
Arsenic	ND	ug/L	20.0	1	02/04/21 11:40	02/05/21 12:58	7440-38-2	
Barium	ND	ug/L	10.0	1	02/04/21 11:40	02/05/21 12:58	7440-39-3	
Beryllium	ND	ug/L	1.0	1	02/04/21 11:40	02/05/21 12:58	7440-41-7	
Boron	668	ug/L	100	1	02/04/21 11:40	02/05/21 12:58	7440-42-8	
Cadmium	ND	ug/L	5.0	1	02/04/21 11:40	02/05/21 12:58	7440-43-9	
Calcium	1240	ug/L	1000	1	02/04/21 11:40	02/05/21 12:58	7440-70-2	
Chromium	ND	ug/L	7.0	1	02/04/21 11:40	02/05/21 12:58	7440-47-3	
Copper	342	ug/L	20.0	1	02/04/21 11:40	02/08/21 13:54	7440-50-8	
ron	ND	ug/L	500	1		02/05/21 12:58		
ead	71.8	ug/L	10.0	1		02/05/21 12:58		
Magnesium Pagnesium	ND	ug/L	1000	1		02/05/21 12:58		
Manganese	ND	ug/L	50.0	1		02/05/21 12:58		
lickel	ND	ug/L	10.0	1		02/05/21 12:58		
Potassium	1260	ug/L	1000	1		02/05/21 12:58		
Selenium	ND	ug/L	20.0	1		02/05/21 12:58		
Silver	ND	ug/L	5.0	1		02/05/21 12:58		
Sodium	243000	ug/L	1000	1		02/05/21 12:58		
Strontium	94.6	ug/L	5.0	1		02/05/21 12:58		
Hardness, Total(SM 2340B)	4810	ug/L	05.0	1		02/05/21 12:58		
Zinc	42.8	ug/L	25.0	1		02/05/21 12:58	7440-66-6	
245.1 Mercury		ethod: EPA 245 cal Services - D	.1 Preparation Meth Pallas	nod: EP	A 245.1			
Mercury	ND	ug/L	0.20	1	02/04/21 11:30	02/04/21 16:18	7439-97-6	



Project: Well Water Testing

Pace Project No.: 75149391

Date: 02/12/2021 05:33 PM

Sample: North Well	Lab ID: 75	149391002	Collected: 02/01/2	21 09:30	Received: 02	/01/21 10:05	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
Wet Chemistry 2520 B-2011	Analytical Me Pace Nationa		20B Modified Prepar	ration Me	ethod: 2520 B-20	11		
Salinity	0.528	PSU	0.0500	1	02/04/21 12:00	02/04/21 12:00	0	
Calculated Results	Analytical Me Pace Nationa		ated Preparation Me	thod: Ca	alc.			
Silica	11.3	mg/L	0.428	1	02/05/21 09:36	02/05/21 09:30	6 7631-86-9	
120.1 Specific Conductance 25C	Analytical Me							
Specific Conductance	1020	umhos/cm	1.0	1		02/08/21 16:03	3	
180.1 Turbidity	Analytical Me							
Turbidity	ND	NTU	1.5	1		02/03/21 13:24	4	H1
2320B Alkalinity	Analytical Me							
Alkalinity, Hydroxide (CaCO3) Alkalinity, Phenolphthalein Alkalinity, Total as CaCO3 Alkalinity,Bicarbonate (CaCO3) Alkalinity,Carbonate (CaCO3)	ND 72.0 464 320 144	mg/L mg/L mg/L mg/L mg/L	20.0 20.0 20.0 20.0 20.0 20.0	1 1 1 1		02/08/21 13:4: 02/08/21 13:4: 02/08/21 13:4: 02/08/21 13:4: 02/08/21 13:4:	3 3 3	
2540C Total Dissolved Solids	Analytical Me							
Total Dissolved Solids	621	mg/L	25.0	1		02/05/21 16:00	0	
2540D Total Suspended Solids	Analytical Me							
Total Suspended Solids	ND	mg/L	2.5	1		02/02/21 16:20	6	
4500H+ pH, Electrometric	Analytical Me							
pH at 25 Degrees C	8.9	Std. Units	0.10	1		02/08/21 13:10	0	H3,H6
5210B BOD, 5 day	Analytical Me		10B Preparation Me Dallas	thod: SN	/I 5210B			
BOD, 5 day	ND	mg/L	2.0	1	02/03/21 06:43	02/08/21 09:5	7	
Total Nitrogen Calculation	Analytical Me							
Nitrogen	1.2	mg/L	0.10	1		02/08/21 16:30	0 7727-37-9	



Project: Well Water Testing

Pace Project No.: 75149391

Date: 02/12/2021 05:33 PM

Sample: North Well	Lab ID: 751	49391002	Collected: 02/01/2	1 09:30	Received: 02	2/01/21 10:05 I	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Meth	nod: EPA 30	0.00					
	Pace Analytica	I Services -	Dallas					
Bromide	ND	mg/L	0.40	1		02/05/21 23:23	24959-67-9	
Chloride	12.3	mg/L	0.80	1		02/05/21 23:23	16887-00-6	
Fluoride	1.4	mg/L	0.50	1		02/05/21 23:23	16984-48-8	
Sulfate	83.3	mg/L	7.0	10		02/05/21 23:41	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Meth	nod: EPA 3	53.2					
	Pace Analytica	I Services -	Dallas					
Nitrogen, Nitrate	0.23	mg/L	0.050	1		02/03/21 09:44		
Nitrogen, Nitrite	ND	mg/L	0.050	1		02/03/21 09:44		H1
Nitrogen, NO2 plus NO3	0.27	mg/L	0.050	1		02/03/21 09:44		H1
4500 Ammonia Water	Analytical Meth	nod: SM 45	00-NH3 H					
	Pace Analytica	l Services -	Dallas					
Nitrogen, Ammonia	0.36	mg/L	0.10	1		02/08/21 17:14	7664-41-7	
4500PE Orthophosphate	Analytical Meth	nod: SM 45	00-P E					
	Pace Analytica	l Services -	Dallas					
Orthophosphate as P	0.094	mg/L	0.040	1		02/03/21 09:14		F6
5310C TOC	Analytical Meth	nod: SM 53	10C					
	Pace Analytica	l Services -	Dallas					
Total Organic Carbon	1.4	mg/L	1.0	1		02/05/21 15:07	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Meth	nod: SM 45	00-P E Preparation N	/lethod: \$	SM4500-P B			
•	Pace Analytica							
Phosphorus	ND	mg/L	0.050	1	02/05/21 12:31	02/05/21 15:02	7723-14-0	
•		9						



Project:

Well Water Testing

Pace Project No.:

75149391

QC Batch:

160874

QC Batch Method: SM 4500-CI G Analysis Method:

SM 4500-CI G

Analysis Description:

4500CL G Chlorine, Total Residual CC

Laboratory:

Pace Analytical Services - Corpus Christi

Associated Lab Samples:

75149391001, 75149391002

METHOD BLANK: 730870

Matrix: Water

Associated Lab Samples:

75149391001, 75149391002

Blank Result

Reporting

Limit

Analyzed

Qualifiers

Chlorine, Total Residual

Units mg/L

ND

0.050 02/10/21 16:49

101

H6

LABORATORY CONTROL SAMPLE: 730871

Parameter

Parameter

Spike

LCS

LCS % Rec % Rec Limits

Qualifiers

Chlorine, Total Residual

Parameter

Chlorine, Total Residual

Date: 02/12/2021 05:33 PM

Units mg/L

75149391001

Result

ND

Conc. 0.5 Result

85-115 H6

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:

730872

MSD

MS

0.5

MSD

MS % Rec

MSD

% Rec

Max **RPD**

Qual

MS

Conc.

Spike

0.5

Spike Conc.

Result 0.52

730873

0.50

Result 0.55 % Rec

106

102

Limits 85-115 RPD

15 H6

Units

mg/L

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project: Well Water Testing

Pace Project No.: 75149391

QC Batch: 160627

QC Batch Method: SM 4500NorgB

Parameter

Analysis Method:

Analysis Description:

SM 4500NorgB CC 4500 Total Kjeldahl Nitrogen

Laboratory:

Pace Analytical Services - Corpus Christi

Associated Lab Samples: 75149391001, 75149391002

METHOD BLANK: 729732

Matrix: Water

Associated Lab Samples: 75149391001, 75149391002

> Blank Result

Reporting Limit

1.0

Analyzed

Qualifiers

Nitrogen, Kjeldahl, Total

Nitrogen, Kjeldahl, Total

Units mg/L

Units

mg/L

Units

mg/L

ND

0.040 02/08/21 15:13

LABORATORY CONTROL SAMPLE: 729733

Spike Conc.

LCS Result

LCS % Rec

104

89

% Rec Limits

90-110

90-110

Qualifiers

LABORATORY CONTROL SAMPLE:

Parameter

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:

Parameter

729734

Units

mg/L

Spike Conc.

LCS Result

LCS % Rec % Rec Limits

Qualifiers

Nitrogen, Kjeldahl, Total

729736

MS

MS

MSD

% Rec

Max RPD Qual

Parameter

729735 MS 75149391001

MSD Spike

Result

23.4

% Rec

% Rec

Limits

RPD

Nitrogen, Kjeldahl, Total

Date: 02/12/2021 05:33 PM

Result

1.2

Spike Conc. Conc. 1

26.2

1 2.3

Result 2.3

MSD

107

110 90-110

10

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project: Well Water Testing

Pace Project No.: 75149391

QC Batch: 160234 Analysis Method: SM 9223, Colilert

QC Batch Method: SM 9223, Colilert Analysis Description: 9223B FWSC Total Ecoli FW

Laboratory: Pace Analytical Services - Fort Worth

Associated Lab Samples: 75149391001, 75149391002

METHOD BLANK: 728072 Matrix: Water

Associated Lab Samples: 75149391001, 75149391002

Blank Reporting Parameter Qualifiers Units Result Limit Analyzed Escherichia coli (E.coli) MPN/100mL <1.0 1.0 02/02/21 17:08 **Total Coliforms** MPN/100mL <1.0 1.0 02/02/21 17:08

SAMPLE DUPLICATE: 728073

Date: 02/12/2021 05:33 PM

75149389001 Dup Max RPD Parameter Units Result Result **RPD** Qualifiers Escherichia coli (E.coli) MPN/100mL <1.0 <1.0 **Total Coliforms** MPN/100mL 6.3 14.6 1t,D6



Project:

Well Water Testing

Pace Project No.:

75149391

QC Batch: QC Batch Method: 1614796

3015

R3619641-1

Analysis Method:

EPA 6010B

Analysis Description:

Metals (ICP) 6010B

Laboratory:

Pace National - Mt. Juliet

Associated Lab Samples:

75149391001, 75149391002

Matrix: Water

Associated Lab Samples:

METHOD BLANK:

75149391001, 75149391002

Blank Result Reporting Limit

Analyzed

Qualifiers

Silicon

Units mg/L

ND

0.200 02/05/21 00:14

LABORATORY CONTROL SAMPLE:

Parameter

Parameter

R3619641-2

Spike

LCS Result

LCS % Rec % Rec Limits

Qualifiers

Silicon

Units mg/L Conc. 1.00

0.895

89.5

80.0-120

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:

R3619641-4 MS

MSD

MSD

R3619641-5

MS

MSD % Rec

Max RPD

L1312130-01 Result

13.8

Spike

Spike Conc.

Result

% Rec

% Rec

RPD

Qual

Silicon

Parameter Units mg/L

Conc.

1.00 1.00

MS Result 14.6

14.5

77.8

Limits 65.6 75.0-125 0.842

20 E,P6

Date: 02/12/2021 05:33 PM



Project:

Well Water Testing

Pace Project No.:

75149391

QC Batch: QC Batch Method: 160307

EPA 245.1

Analysis Method:

EPA 245.1

Analysis Description:

245.1 Mercury

Laboratory:

Pace Analytical Services - Dallas

Associated Lab Samples:

Associated Lab Samples:

75149391001, 75149391002

METHOD BLANK: 728421

75149391001, 75149391002

Matrix: Water

Parameter

Blank

Result

Reporting Limit

Analyzed

103

Qualifiers

Mercury

Mercury

Units ug/L

Units

ug/L

75148972001

Result

ND

ND

0.20 02/04/21 15:03

LABORATORY CONTROL SAMPLE: 728422

Parameter

Spike Conc.

LCS Result

LCS % Rec % Rec Limits

85-115

Qualifiers

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:

728423

MSD

2.5

MSD Result

2.7

107

108

% Rec

Mercury

Parameter Units Result ug/L ND

Units

ug/L

MS Spike Conc.

Spike Conc.

2.5

2.5

MS Result

2.7

2.6

728424

MS % Rec

MSD % Rec

Limits

Max **RPD** RPD

Mercury

728425

728426

41-139

20

Qual

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:

Parameter

MS

MSD

MS MSD

MS

MSD

% Rec

Max **RPD** RPD Qual

75148972004

Spike Spike Conc. Conc.

2.5

Result 2.5

Result 2.2 2.2 % Rec 90

% Rec 90

Limits

41-139 0 20

Date: 02/12/2021 05:33 PM

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Analysis Method:

Project: Well Water Testing

Pace Project No.: 75149391

Date: 02/12/2021 05:33 PM

QC Batch: 160428

Analysis Description: 200.7 Metals, Total

EPA 200.7

QC Batch Method: EPA 200.7 Analysis De Laboratory:

Pace Analytical Services - Dallas

Associated Lab Samples: 75149391001, 75149391002

METHOD BLANK: 729075 Matrix: Water

Associated Lab Samples: 75149391001, 75149391002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
				•	- Qualificity
Aluminum	ug/L	ND	500	02/05/21 12:11	
Antimony	ug/L	ND	25.0	02/05/21 12:11	
Arsenic	ug/L	ND	20.0	02/05/21 12:11	
Barium	ug/L	ND	10.0	02/05/21 12:11	
Beryllium	ug/L	ND	1.0	02/05/21 12:11	
Boron	ug/L	ND	100	02/05/21 12:11	
Cadmium	ug/L	ND	5.0	02/05/21 12:11	
Calcium	ug/L	ND	1000	02/05/21 12:11	
Chromium	ug/L	ND	7.0	02/05/21 12:11	
Copper	ug/L	ND	20.0	02/05/21 12:11	2t
Hardness, Total(SM 2340B)	ug/L	73.3		02/05/21 12:11	
Iron	ug/L	ND	500	02/05/21 12:11	
Lead	ug/L	ND	10.0	02/05/21 12:11	
Magnesium	ug/L	ND	1000	02/05/21 12:11	
Manganese	ug/L	ND	50.0	02/05/21 12:11	
Nickel	ug/L	ND	10.0	02/05/21 12:11	
Potassium	ug/L	ND	1000	02/05/21 12:11	
Selenium	ug/L	ND	20.0	02/05/21 12:11	
Silver	ug/L	ND	5.0	02/05/21 12:11	
Sodium	ug/L	ND	1000	02/05/21 12:11	
Strontium	ug/L	ND	5.0	02/05/21 12:11	
Zinc	ug/L	ND	25.0	02/05/21 12:11	

LABORATORY CONTROL SAMPLE:	729076					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
Aluminum	ug/L	10000	10800	108	85-115	
Antimony	ug/L	1000	1050	105	85-115	
Arsenic	ug/L	1000	1010	101	85-115	
Barium	ug/L	1000	1050	105	85-115	
Beryllium	ug/L	1000	1070	107	85-115	
Boron	ug/L	1000	1090	109	85-115	
Cadmium	ug/L	1000	1040	104	85-115	
Calcium	ug/L	10000	10800	108	85-115	
Chromium	ug/L	1000	1060	106	85-115	
Copper	ug/L	1000	1020	102	85-115	
Hardness, Total(SM 2340B)	ug/L		71600			
Iron	ug/L	10000	10900	109	85-115	
Lead	ug/L	1000	1110	111	85-115	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project: Well Water Testing

Pace Project No.: 75149391

Date: 02/12/2021 05:33 PM

LABORATORY CONTROL SAMPLE:	729076					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
Magnesium	ug/L	10000	10900	109	85-115	
/langanese	ug/L	1000	1040	104	85-115	
lickel	ug/L	1000	1080	108	85-115	
otassium	ug/L	10000	10700	107	85-115	
elenium	ug/L	1000	1030	103	85-115	
lver	ug/L	500	516	103	85-115	
odium	ug/L	10000	10700	107	85-115	
rontium	ug/L	1000	1060	106	85-115	
inc	ug/L	1000	1050	105	85-115	

MATRIX SPIKE & MATRIX SP	IKE DUPL	ICATE: 7290	77		729078							
Parameter	Units	75149388001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	ug/L	 ND	10000	10000	10700	10700	107	107	70-130		20	
Antimony	ug/L	ND	1000	1000	1060	1050	106	105	70-130	1	20	
Arsenic	ug/L	9.2 mg/L	1000	1000	10300	10300	108	110	70-130	0	20	
Barium	ug/L	ND	1000	1000	1060	1060	105	106	70-130	0	20	
Beryllium	ug/L	ND	1000	1000	1080	1070	108	107	70-130	1	20	
Boron	ug/L	ND	1000	1000	1120	1100	110	108	70-130	2	20	
Cadmium	ug/L	0.14 mg/L	1000	1000	1190	1180	105	104	70-130	1	20	
Calcium	ug/L	18.6 mg/L	10000	10000	29300	29300	107	107	70-130	0	20	
Chromium	ug/L	ND	1000	1000	1070	1040	107	104	70-130	3	20	
Copper	ug/L	0.34 mg/L	1000	1000	1420	1420	108	109	70-130	0	20	IC
Hardness, Total(SM 2340B)	ug/L	52.2 mg/L			123000	123000				0		
Iron	ug/L	1.5 mg/L	10000	10000	12400	12300	108	108	70-130	0	20	
Lead	ug/L	ND	1000	1000	1080	1060	108	106	70-130	1	20	
Magnesium	ug/L	1.4 mg/L	10000	10000	12100	12100	107	106	70-130	1	20	
Manganese	ug/L	0.41 mg/L	1000	1000	1450	1420	105	101	70-130	2	20	
Nickel	ug/L	ND	1000	1000	1070	1060	107	106	70-130	1	20	
Potassium	ug/L	1.8 mg/L	10000	10000	12600	12500	108	107	70-130	0	20	
Selenium	ug/L	ND	1000	1000	1060	1050	106	105	70-130	1	20	
Silver	ug/L	ND	500	500	526	511	105	102	70-130	3	20	
Sodium	ug/L	60.8 mg/L	10000	10000	71500	71700	106	108	70-130	0	20	
Strontium	ug/L	0.18 mg/L	1000	1000	1240	1250	106	107	70-130	0	20	
Zinc	ug/L	ND	1000	1000	1050	1040	105	104	70-130	1	20	

MATRIX SPIKE & MATRIX SP	IKE DUPL	ICATE: 7290	79		729080							
			MS	MSD								
		75149390001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Aluminum	ug/L	ND	10000	10000	10500	10500	105	105	70-130	0	20	
Antimony	ug/L	ND	1000	1000	1050	1030	105	103	70-130	2	20	
Arsenic	ug/L	0.13 mg/L	1000	1000	1160	1140	103	101	70-130	2	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project: Well Water Testing

Pace Project No.: 75149391

Date: 02/12/2021 05:33 PM

MATRIX SPIKE & MATRIX SP	IKE DUPLI	CATE: 7290	-		729080							
			MS	MSD								
	-	75149390001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qua
Barium	ug/L	ND	1000	1000	1050	1030	104	103	70-130	1	20	
Beryllium	ug/L	ND	1000	1000	1070	1050	107	105	70-130	1	20	
Boron	ug/L	ND	1000	1000	1120	1100	108	106	70-130	2	20	
Cadmium	ug/L	ND	1000	1000	1040	1030	104	103	70-130	1	20	
Calcium	ug/L	28.5 mg/L	10000	10000	38900	38600	104	101	70-130	1	20	
Chromium	ug/L	ND	1000	1000	1030	1030	103	103	70-130	0	20	
Copper	ug/L	ND	1000	1000	1080	1060	107	106	70-130	1	20	IC
Hardness, Total(SM 2340B)	ug/L	80.8 mg/L			150000	149000				0		
Iron	ug/L	0.53 mg/L	10000	10000	11200	11100	107	106	70-130	1	20	
Lead	ug/L	ND	1000	1000	1050	1040	104	104	70-130	1	20	
Magnesium	ug/L	2.3 mg/L	10000	10000	12800	12900	105	106	70-130	0	20	
Manganese	ug/L	0.56 mg/L	1000	1000	1570	1570	101	100	70-130	0	20	
Nickel	ug/L	ND	1000	1000	1050	1040	105	104	70-130	1	20	
Potassium	ug/L	2.8 mg/L	10000	10000	13600	13400	107	106	70-130	1	20	
Selenium	ug/L	ND	1000	1000	1040	1030	104	103	70-130	1	20	
Silver	ug/L	ND	500	500	512	510	102	102	70-130	0	20	
Sodium	ug/L	93.3 mg/L	10000	10000	104000	103000	102	93	70-130	1	20	
Strontium	ug/L	0.29 mg/L	1000	1000	1340	1320	105	103	70-130	2	20	
Zinc	ug/L	ND	1000	1000	1040	1030	104	103	70-130	1	20	



Project:

Well Water Testing

Pace Project No.:

75149391

QC Batch: QC Batch Method:

METHOD BLANK:

1616317

R3619368-1

2520 B-2011

Analysis Method:

SM 2520B Modified

Analysis Description:

Wet Chemistry 2520 B-2011

Laboratory:

Pace National - Mt. Juliet

Associated Lab Samples:

75149391001, 75149391002

Matrix: Water

Associated Lab Samples:

75149391001, 75149391002

Blank Result Reporting Limit

Analyzed

Qualifiers

Salinity

Units **PSU**

ND

0.0500 02/04/21 12:00

LABORATORY CONTROL SAMPLE:

Parameter

Parameter

R3619368-2

Spike

LCS Result

LCS % Rec % Rec Limits

Qualifiers

Salinity

Units **PSU**

Conc. 35.0

37.9

108

85.0-115

SAMPLE DUPLICATE: R3619368-3

Date: 02/12/2021 05:33 PM

75149391001

Dup Result

RPD

Max **RPD**

Qualifiers

Salinity

Parameter

Units PSU Result 0.437

0.438

0.229

20



Project:

Well Water Testing

Pace Project No.:

75149391

QC Batch:

160642

Analysis Method:

EPA 120.1

QC Batch Method: EPA 120.1 Analysis Description:

120.1 Specific Conductance

Pace Analytical Services - Dallas

Laboratory:

METHOD BLANK: 729790

Parameter

Parameter

75149391001, 75149391002

Matrix: Water

Associated Lab Samples:

Associated Lab Samples:

75149391001, 75149391002

Blank

Result

Reporting Limit

Analyzed

Qualifiers

Specific Conductance

Units umhos/cm

ND

1.0 02/08/21 15:59

LABORATORY CONTROL SAMPLE: 729791

Spike

LCS Result

LCS % Rec % Rec Limits

Qualifiers

Specific Conductance

Units umhos/cm Conc. 200

201

101

80-120

SAMPLE DUPLICATE: 729792

Parameter Units 75149391001 Result

Dup Result

RPD

Max **RPD**

Qualifiers

Specific Conductance

Date: 02/12/2021 05:33 PM

umhos/cm

858

845

2

20





Project: Well Water Testing

Pace Project No.: 75149391

QC Batch: 160368 Analysis Method: EPA 180.1

QC Batch Method: EPA 180.1 Analysis Description: 180.1 Turbidity

Laboratory: Pace Analytical Services - Dallas

Associated Lab Samples: 75149391001, 75149391002

METHOD BLANK: 728717 Matrix: Water

Associated Lab Samples: 75149391001, 75149391002

Blank Reporting
Parameter Units Result Limit Analyzed Qualifiers

Turbidity NTU ND 1.5 02/03/21 13:24

SAMPLE DUPLICATE: 728718

Date: 02/12/2021 05:33 PM

Parameter Units Result Result RPD ARPD Qualifiers
Turbidity NTU ND ND 20



Project:

Well Water Testing

Pace Project No.:

75149391

QC Batch: QC Batch Method: 160641

SM 2320B

Analysis Method:

SM 2320B

Analysis Description:

2320B Alkalinity

Laboratory:

Pace Analytical Services - Dallas

Associated Lab Samples:

75149391001, 75149391002

METHOD BLANK: 729787

75149391001, 75149391002

Matrix: Water

Associated Lab Samples:

Blank Result Reporting

Limit

Analyzed

Qualifiers

Alkalinity, Total as CaCO3

Units mg/L

ND

20.0 02/08/21 13:26

LABORATORY CONTROL SAMPLE: 729788

Parameter

Parameter

Spike Conc.

414

LCS Result

LCS % Rec % Rec Limits

Qualifiers

Alkalinity, Total as CaCO3

Alkalinity, Total as CaCO3

Date: 02/12/2021 05:33 PM

Units mg/L

mg/L

250

274

110

90-110

SAMPLE DUPLICATE: 729789

Parameter

Units

75149391001 Result

Dup Result

414

RPD

0

Max **RPD**

20

Qualifiers



SM 2540C

Analysis Method:

Project: Well Water Testing

Pace Project No.: 75149391

QC Batch: 160403

QO Baton. 100400

QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Dallas

Associated Lab Samples: 75149391001

METHOD BLANK: 728932 Matrix: Water

Associated Lab Samples: 75149391001

Blank Reporting
Parameter Units Result Limit Analyzed Qualifiers

Total Dissolved Solids mg/L ND 25.0 02/03/21 17:47

LABORATORY CONTROL SAMPLE: 728933

Parameter Units Spike LCS LCS % Rec
Conc. Result % Rec Limits Qualifiers

Total Dissolved Solids mg/L 250 251 100 85-115

SAMPLE DUPLICATE: 728934

Date: 02/12/2021 05:33 PM

75149329001 Dup Max **RPD** Parameter Units Result Result **RPD** Qualifiers 936 **Total Dissolved Solids** mg/L 1020 9 5 D6



SM 2540C

Project: Well Water Testing

Pace Project No.: 75149391

QC Batch: 160577 Analysis Method:

QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Dallas

Associated Lab Samples: 75149391002

METHOD BLANK: 729589 Matrix: Water

Associated Lab Samples: 75149391002

Blank Reporting
Parameter Units Result Limit Analyzed Qualifiers

Total Dissolved Solids mg/L ND 25.0 02/05/21 16:00

LABORATORY CONTROL SAMPLE: 729590

Spike LCS LCS % Rec
Parameter Units Conc. Result % Rec Limits Qualifiers

Total Dissolved Solids mg/L 250 246 98 85-115

SAMPLE DUPLICATE: 729591

75149391002 Dup Max Parameter Units Result Result **RPD RPD** Qualifiers 621 **Total Dissolved Solids** mg/L 2 5 636

SAMPLE DUPLICATE: 729600

Date: 02/12/2021 05:33 PM

75149506001 Dup Max RPD RPD Parameter Units Result Result Qualifiers Total Dissolved Solids 775 772 0 5 mg/L

10



QUALITY CONTROL DATA

Project: Well Water Testing

Pace Project No.: 75149391

QC Batch: 160306 Analysis Method: SM 2540D

QC Batch Method: SM 2540D Analysis Description: 2540D Total Suspended Solids

Laboratory: Pace Analytical Services - Dallas

Associated Lab Samples: 75149391001, 75149391002

METHOD BLANK: 728418 Matrix: Water

Associated Lab Samples: 75149391001, 75149391002

> Blank Reporting Qualifiers Parameter Units Result Limit Analyzed

Total Suspended Solids ND 2.5 02/02/21 16:25 mg/L

LABORATORY CONTROL SAMPLE: 728419

Spike LCS LCS % Rec Conc. Result % Rec Limits Qualifiers Parameter Units **Total Suspended Solids** mg/L 200 181 90 85-115

SAMPLE DUPLICATE: 728448

75149352001 Dup Max Parameter Units Result Result **RPD RPD** Qualifiers 1260 Total Suspended Solids mg/L 1260 0

SAMPLE DUPLICATE: 728459

Date: 02/12/2021 05:33 PM

75149343001 Dup Max RPD RPD Parameter Units Result Result Qualifiers 143 152 10 Total Suspended Solids mg/L 6





Project:

Well Water Testing

Pace Project No.:

75149391

QC Batch:
QC Batch Method:

160639

SM 4500-H+B

Analysis Method:

,

SM 4500-H+B

Analysis Description:

4500H+B pH

Laboratory:

Pace Analytical Services - Dallas

Associated Lab Samples:

 $75149391001,\,75149391002$

LABORATORY CONTROL SAMPLE:

Parameter

729785

Spike Conc. LCS Result LCS % Rec

% Rec Limits

Qualifiers

pH at 25 Degrees C

Units Std. Units

6.0

100

99-101 H6

2

SAMPLE DUPLICATE: 729786

....

75149391001 Result Dup Result

RPD

Max RPD

Qualifiers

Parameter pH at 25 Degrees C

Date: 02/12/2021 05:33 PM

Units Std. Units

9.2

9.2

0

20 H3,H6





Project: Well Water Testing

Pace Project No.: 75149391

QC Batch: 160322 Analysis Method: SM 5210B

QC Batch Method: SM 5210B Analysis Description: 5210B BOD, 5 day

Laboratory: Pace Analytical Services - Dallas

Associated Lab Samples: 75149391001, 75149391002

METHOD BLANK: 728522 Matrix: Water

Associated Lab Samples: 75149391001, 75149391002

Blank Reporting
Parameter Units Result Limit Analyzed Qualifiers

BOD, 5 day mg/L ND 2.0 02/08/21 09:28

LABORATORY CONTROL SAMPLE: 728524

Parameter Units Spike LCS LCS % Rec Conc. Result % Rec Limits Qualifiers

BOD, 5 day mg/L 198 187 94 85-115

SAMPLE DUPLICATE: 728525

 Parameter
 Units
 75149429001 Result
 Dup Result
 Max RPD
 RPD
 Qualifiers

 BOD, 5 day
 mg/L
 ND
 ND
 20

SAMPLE DUPLICATE: 728526

Date: 02/12/2021 05:33 PM

75149480001 Dup Max RPD RPD Parameter Units Result Result Qualifiers BOD, 5 day 34.3 mg/L 31.1 10 20

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project: Well Water Testing

Pace Project No.: 75149391

Date: 02/12/2021 05:33 PM

QC Batch: 160562 QC Batch Method: EPA 300.0 Analysis Method: EPA 300.0

Analysis Description: 300.0 IC Anions

Laboratory:

Pace Analytical Services - Dallas

Associated Lab Samples: 75149391001, 75149391002

METHOD BLANK: 729532

Matrix: Water

Associated Lab Samples: 75149391001, 75149391002

		Blank	Reporting		
Parameter	Units	Result	Limit	Analyzed	Qualifiers
Bromide	mg/L	ND	0.40	02/05/21 21:00	
Chloride	mg/L	ND	0.80	02/05/21 21:00	
Fluoride	mg/L	ND	0.50	02/05/21 21:00	
Sulfate	mg/L	ND	0.70	02/05/21 21:00	

LABORATORY CONTROL SAMPLE: Parameter	729533 Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromide	mg/L		5.4	108	90-110	Qua
Chloride	mg/L	5	5.1	101	90-110	
Fluoride	mg/L	5	5.4	108	90-110	
Sulfate	mg/L	5	5.2	104	90-110	

MATRIX SPIKE & MATRIX S		729535										
			MS	MSD								
	7	5149391001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Bromide	mg/L	ND	5	5	5.4	4.9	107	97	90-110	10	20	
Chloride	mg/L	6.9	5	5	11.9	11.8	100	98	90-110	1	20	
Fluoride	mg/L	ND	5	5	5.6	5.6	105	104	90-110	1	20	
Sulfate	mg/L	42.1	50	50	94.7	94.2	105	104	90-110	1	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project: Well Water Testing

Pace Project No.: 75149391

QC Batch: 160326

QC Batch Method: EPA 353.2

Analysis Method: EPA 353.2

Analysis Description:

353.2 Nitrate + Nitrite, Unpres.

Laboratory:

Pace Analytical Services - Dallas

Associated Lab Samples: 75149391001, 75149391002

METHOD BLANK: 728535

Date: 02/12/2021 05:33 PM

Matrix: Water

Associated Lab Samples: 75149391001, 75149391002

Blank Reporting Limit Qualifiers Parameter Units Result Analyzed Nitrogen, Nitrate mg/L ND 0.050 02/03/21 09:40 Nitrogen, Nitrite mg/L ND 0.050 02/03/21 09:40 Nitrogen, NO2 plus NO3 mg/L ND 02/03/21 09:40 0.050

LABORATORY CONTROL SAMPLE: 728536

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L		ND			
Nitrogen, Nitrite	mg/L	2.5	2.6	104	90-110	
Nitrogen, NO2 plus NO3	mg/L	2.5	2.5	98	90-110	

MATRIX SPIKE & MATRIX SF	PIKE DUPL	ICATE: 7285	728538	28538								
		75440404004	MS	MSD	140	MOD		MOD	0/ D			
		75149424001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Nitrogen, Nitrate	mg/L	12.3			10.4	10.4				0	20	
Nitrogen, Nitrite	mg/L	ND	12.5	12.5	13.0	13.2	104	105	90-110	1	20	
Nitrogen, NO2 plus NO3	mg/L	12.3	12.5	12.5	23.5	23.6	90	90	90-110	0	20	



Project:

Well Water Testing

Pace Project No.:

75149391

QC Batch: QC Batch Method: 160649

SM 4500-NH3 H

Analysis Method:

SM 4500-NH3 H

Analysis Description:

4500 Ammonia

Laboratory:

Pace Analytical Services - Dallas

Associated Lab Samples:

75149391001, 75149391002

METHOD BLANK: 729813 Associated Lab Samples:

75149391001, 75149391002

Matrix: Water

Blank Result Reporting Limit

Analyzed

Qualifiers

Nitrogen, Ammonia

Units mg/L

ND

0.10 02/08/21 17:08

LABORATORY CONTROL SAMPLE: 729814

Parameter

Parameter

Spike

LCS Result

LCS % Rec

MSD

% Rec Limits

Qualifiers

Nitrogen, Ammonia

Nitrogen, Ammonia

Parameter

Units mg/L

75149391002

Result 0.36

Units

mg/L

Conc.

4.8

95

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:

729815

MSD

729816 MS

MS

MSD

80-120

% Rec

Max RPD

Spike

Spike Conc.

Result

% Rec

% Rec

Limits **RPD**

Qual 20

MS

Conc.

5 5

Result 5.4

101 5.6

105

80-120

Date: 02/12/2021 05:33 PM



Project:

Well Water Testing

Pace Project No.:

75149391

QC Batch:

160313

QC Batch Method:

SM 4500-P E

Analysis Method:

SM 4500-P E

Analysis Description:

4500PE Orthophosphate

Laboratory:

Pace Analytical Services - Dallas

Associated Lab Samples: METHOD BLANK: 728479

Matrix: Water

Associated Lab Samples:

75149391001, 75149391002

75149391001, 75149391002

Blank

Result

Reporting Limit

Analyzed

Qualifiers

Orthophosphate as P

Units mg/L

ND

0.040 02/03/21 09:13

LABORATORY CONTROL SAMPLE: 728480

Parameter

Parameter

Units

mg/L

Spike Conc.

LCS Result

LCS % Rec % Rec Limits

Qualifiers

Orthophosphate as P

Orthophosphate as P

Date: 02/12/2021 05:33 PM

Parameter

Units mg/L

75149437008

Result

ND

0.25

0.26

103

90-110

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:

728481

MSD

MSD Result

MS % Rec

MSD % Rec

% Rec Max Limits

RPD Qual

MS

Spike

0.25

Spike Conc. Conc.

MS Result 0.23 0.25

728482

0.24

90

91

RPD 90-110

20



Project: Well Water Testing

Pace Project No.: 75149391

QC Batch: 160495 Analysis Method: SM 5310C

QC Batch Method: SM 5310C Analysis Description: 5310C Total Organic Carbon

Laboratory: Pace Analytical Services - Dallas

Associated Lab Samples: 75149391001, 75149391002

METHOD BLANK: 729309 Matrix: Water

Associated Lab Samples: 75149391001, 75149391002

Blank Reporting
Parameter Units Result Limit Analyzed Qualifiers

Total Organic Carbon mg/L ND 1.0 02/05/21 14:03

LABORATORY CONTROL SAMPLE: 729310

Date: 02/12/2021 05:33 PM

Spike LCS LCS % Rec
Parameter Units Conc. Result % Rec Limits Qualifiers

Total Organic Carbon mg/L 10 9.5 95 90-110

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 729311 729312

MSD MS 75149584001 Spike Spike MS MSD MS MSD % Rec Max Parameter Units Conc. Conc. Result Result **RPD** RPD Result % Rec % Rec Limits Qual

Total Organic Carbon mg/L ND 10 10 9.8 10.6 88 97 80-120 8 20

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 729313 729314

MS MSD 75149437002 MS MSD MS MSD Spike Spike % Rec Max **RPD** RPD Parameter Units Result Conc. Conc. Result Result % Rec % Rec Limits Qual Total Organic Carbon 4.7 10 10 91 13.8 13.7 90 80-120 20 mg/L

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project:

Well Water Testing

Pace Project No.:

75149391

QC Batch:

160508

QC Batch Method:

SM4500-P B

Analysis Method:

SM 4500-P E

Analysis Description:

SM4500P-E, Total Phosphorus

Laboratory:

Pace Analytical Services - Dallas

Associated Lab Samples: 75149391001, 75149391002

Parameter

Parameter

Parameter

METHOD BLANK:

Matrix: Water

Associated Lab Samples: 75149391001, 75149391002

Units

mg/L

Units

mg/L

Blank Result

Reporting

Limit

Analyzed

Qualifiers

Phosphorus

Units mg/L

ND

0.050 02/05/21 14:55

LABORATORY CONTROL SAMPLE: 729375

Spike Conc.

LCS Result

LCS % Rec % Rec Limits

Qualifiers

Phosphorus

Phosphorus

mg/L

Units

75148900001

Result

0.5

0.50

100

80-120

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:

729376 MS

Spike

Conc.

0.5

MSD Spike

Conc.

MS Result

729377

MSD

1.7

Result

MS

51

% Rec

MSD % Rec

58

% Rec Max **RPD** Limits

RPD Qual 20 M1 80-120

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:

729378

MSD

MS Spike

0.5

MSD

MS

MSD

% Rec

Max Qual

Parameter

Phosphorus

75149062002 Result

1.4

Conc. 0.58

Spike Conc. 0.5 0.5

MS Result Result 0.67

729379

1.7

% Rec 0.66

% Rec 17

Limits 17

RPD RPD 80-120

20 M1

Date: 02/12/2021 05:33 PM

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.





QUALIFIERS

Project: Well Water Testing

Pace Project No.: 75149391

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The Nelac Institute

ANALYTE QUALIFIERS

Date: 02/12/2021 05:33 PM

1t Calculated RPD is 79%. RPD limit is 2	ე%.
--	-----

- 2t This analyte exceeded secondary source verification criteria high for the initial calibration. CCV is within acceptance parameters for analyte which is ND.
- D6 The precision between the sample and sample duplicate exceeded laboratory control limits.
- E Analyte concentration exceeded the calibration range. The reported result is estimated.
- F6 Sample was not filtered within 15 minutes of collection and does not meet sampling and/or regulatory requirements.
- H1 Analysis conducted outside the EPA method holding time.
- H3 Sample was received or analysis requested beyond the recognized method holding time.
- H6 Analysis initiated outside of the 15 minute EPA required holding time.
- IC The initial calibration for this compound was outside of method control limits. The result is estimated.
- M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
- P6 Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Well Water Testing

Pace Project No.: 75149391

Date: 02/12/2021 05:33 PM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytica Batch
75149391001 75149391002	South Well North Well	SM 4500-CI G SM 4500-CI G	160874 160874		,
75149391001 75149391002	South Well North Well	SM 4500NorgB SM 4500NorgB	160627 160627	SM 4500NorgB SM 4500NorgB	160662 160662
75149391001 75149391002	South Well North Well	SM 9223, Colilert SM 9223, Colilert	160234 160234	SM 9223, Colilert SM 9223, Colilert	160289 160289
75149391001 75149391002	South Well North Well	3015 3015	1614796 1614796	EPA 6010B EPA 6010B	1614796 1614796
75149391001 75149391002	South Well North Well	EPA 200.7 EPA 200.7	160428 160428	EPA 200.7 EPA 200.7	160469 160469
75149391001 75149391002	South Well North Well	EPA 245.1 EPA 245.1	160307 160307	EPA 245.1 EPA 245.1	160454 160454
75149391001 75149391002	South Well North Well	2520 B-2011 2520 B-2011	1616317 1616317	SM 2520B Modified SM 2520B Modified	1616317 1616317
75149391001 75149391002	South Well North Well	Calc. Calc.	1614796 1614796	Calculated Calculated	1614796 1614796
75149391001 75149391002	South Well North Well	EPA 120.1 EPA 120.1	160642 160642		
75149391001 75149391002	South Well North Well	EPA 180.1 EPA 180.1	160368 160368		
75149391001 75149391002	South Well North Well	SM 2320B SM 2320B	160641 160641		
5149391001	South Well	SM 2540C	160403		
5149391002	North Well	SM 2540C	160577		
75149391001 75149391002	South Well North Well	SM 2540D SM 2540D	160306 160306		
75149391001 75149391002	South Well North Well	SM 4500-H+B SM 4500-H+B	160639 160639		
75149391001 75149391002	South Well North Well	SM 5210B SM 5210B	160322 160322	SM 5210B SM 5210B	160343 160343
75149391001 75149391002	South Well North Well	40CFR PART 432.2 40CFR PART 432.2	160702 160702		
75149391001 75149391002	South Well North Well	EPA 300.0 EPA 300.0	160562 160562		
75149391001 75149391002	South Well North Well	EPA 353.2 EPA 353.2	160326 160326		
75149391001 75149391002	South Well North Well	SM 4500-NH3 H SM 4500-NH3 H	160649 160649		
75149391001	South Well	SM 4500-P E	160313		





QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Well Water Testing

Pace Project No.: 75149391

Date: 02/12/2021 05:33 PM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
75149391002	North Well	SM 4500-P E	160313		
75149391001	South Well	SM 5310C	160495		
75149391002	North Well	SM 5310C	160495		
75149391001	South Well	SM4500-P B	160508	SM 4500-P E	160553
75149391002	North Well	SM4500-P B	160508	SM 4500-P E	160553

Pace Analytical*

Document Name: Sample Condition Upon Receipt

Document No.: F-DAL-C-001-rev.14 Document Revised: 7/27/20 Page 1 of I

Issuing Authority:
Pace Dallas Quality Office

Sample Condition Upon Receipt □Dallas ☑Ft Worth □Corpus Christi □Austin

Client Name: PELOTON Proj Courier: FedEX D UPS D USPS D Client of LSO D PACE D Other Tracking #:	WO#: 75149391
Receiving Lab 2 Thermometer Used: No ice Cooler Tes	mp °C: 3, 7 (Recorded) (Correction Factor) 3, 7 (Actual mp °C: 2, 4 (Recorded) (Correction Factor) 2, 4 (Actual
Temperature should be above freezing to 6°C unless collected Triage Person: All D Date: D	same day as receipt in which evidence of cooling is acceptable
Chain of Custody relinquished	Yes or No n
Sampler name & signature on COC	Yes p No p
Short HT analyses (<72 hrs)	Yes p No n
Sufficient Volume received Correct Container used	Yes & No D
Correct Container used	<u></u>
Container Intact	Yes o No a
Sample pH Acceptable pH Strips: Residual Chlorine Present Ci Strips: Sulfide Present	Yes D No D NA
Lead Acetate Strips: Are soil samples (volatiles, TPH) received in 5035A Kits (not applicable to TCLP VOA or PST Program TPH)	Yes D No D NA p
Unpreserved 5035A soil frozen within 48 hrs	Yes D No D NA
Headspace in VOA (>6mm)	Yes n No n NAO
Project sampled in USDA Regulated Area outside of Texas State Sampled:	Yes o No a NA p
Von-Conformance(s):	Yes a No a
ibeling Person (if different than log-in):	Date: (2.2

seigniss loain (VAV) 000 Cooler 8 203272 Received on (VM) Residual Chlorina (YAV) 2.6 44173 Die GMET CHAIN-OF-CUSTODY / Analytical Request Document
The Chain-of-Custody is a LEGAL DOCUMENT. As reterant lists must be completed accurately 380 MEL 466 1020 (203) 201 DATE Spane 2-1-2A 16/2/ 9 lateT M lateT ginemn 300 1 349 1 dulT,80T,bno0,enoi any byant@passists one AP-5 008 me Haluman 881 NA SOOT SOCKERS Separate Separate **Jento IDVBURSHI** COSSSAN HOW Involce information: HĆI CONH 1085H Ç BOS Peweendun Ē B OF CONTAINERS MOUTE TEMP AT COLLECTION PRINT Name of BARPAGE: 7 nhho 252 SIGNATURE of SAMPLEN CF 23 TE Busicas Busicay 9318 3 2 COLLECTED LKET 25.50 Ę Puthasa Ordar 6 Project Hanne Well Water Teating Project 6 START 8 B Appen to Chris Han Capy To. Comes פאינטרב ווגב (כיסורים כיכסודגו Size Ô SANTILIX CODE (nos valid codes is left) d ğ 282 raq \$ 424 4 2/10/2 lill... C Due Date: 02/15/21 2/10/2 S 2 JO#: 75149391 Con Value tres 252 थ् One Character per bes. (A-2, 6-0 f., 1 Cample the most to unique SAMPLE ID Tecos. CLIBIT: Poloton Land 8 KIN かるか DIKA Pet Dec. Del 3 7 e Mati 40 #

1

Parameters
Alkalinity, Bicarbonate (CaCO3)
Alkalinity, Carbonate (CaCO3)
Alkalinity, Hydroxide (CaCO3)
Alkalinity, Phenotohthalein
Alkatinity, Total as CaCO3
Aluminum
Antimony
Arsenic
Barlum
Beryllium
BOD, 5 day
Boron
Bromide
Cadmium
Calcium
Chloride Chloride
Chiorine, Total Residual
Chromium
Copper
Escherichia coli (E.coli)
Fluoride
tron
Lead
Magnesium
Manganese
Mercury
NH3-N (Ammonia-Nitrogen)
Nickel
Nitrogen Mitrogen
Nitrogen, Kjeldahl, Total
Nitrogen, Nitrate
Nitrogen, NO2 plus NO3
Orthophosphate as P
PH at 25 Degrees C
Phosphorus Phosphorus
Potesium
Salinity
Selentum
Stilcon Land
Silica
Silver
Sodium
Specific Conductance

Strontium	
Sulfate	
Total Coliforms	
Total Dissolved Solids	
Total Hardness by 2340B	
Total Organic Carbon	13
Total Suspended Solids	
Turbidity	
Zinc	

WO#:75149391

PH: ADB Due Date: 02/18/21 CLIENT: Peleten Land

> Rec. 2 x TENS NO Residual CI. 8m24-21 \$ Res. CI Rec. 2/1411 5m

Int	ernal Transfe	r Chain	of Custo	dv —						GOE	55)
_	Samples Pre-Logged							State Of Orig		TX Yes	x No		Pa	Ce Analytical www.pacelabs.com Rosh Service Requested
Wor	korder: 75149391	Workorder N	lame: Well Wa	ater Testing				Owner Rece			2/1/2021	Results	Requested I	By: 2/8/2021
Repo	ort To		Subcontra	act To							Carl Statement -	d Analysis		
Pace 400 Suite Aller	Bryant e Analytical Dallas West Bethany Drive e 190 n, TX 75013 ne (972)727-1123		1206 Mt. Ji	National 5 Lebanon Rd uliet, TN 37122 e (615) 758-585					Salinity	Silica/Silicon				
						P	reser	ved Containers		Sil				
Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	HN03	Unpreserved							LAB USE ONLY
1	South Well	PS	2/1/2021 09:15	75149391001	Water	1	1		X	X				13131680
2	North Well	PS	2/1/2021 09:30	75149391002	Water	1	1		X	X				0
3						KM	1							
4					1									
5			MI BOOK											
Trans	Released By	inson Pace	Date/Time	Received E	Leder	110	011	Date/Tin	170	0		Col	mments	
3	freix	y		que	MA	ALL		1.4010	10	4				
Coo	ler Temperature on R	eceipt O.S	°C Cu	stody Seal 🛆	or N	ı	I	Received or	ı Ice	(V)	r N	Sa	mples Intact	Y or N
***In TI	order to maintain client his chain of custody is o	considered con	plete as is sin	e of the sampli ce this informa	ng site, s ation is a	sampl vailat	er's le in	name and signa the owner labo	ature	e may n	ot be provided	on this (COC documen	t.

0,810248

Fedex: 01518 7517 8446

COC Seal Present/Intact: COC Signed/Accurate: Bottles arrive intact: Correct bottles used:		ot Checklist V If Applicable V VOA Zero Headspace: V Pres.Correct/Check:	Y_N Y_N	
Sufficient volume sent: RAD Screen <0.5 mR/hr:	/Y 1			





April 19, 2021

Chris Hamilton Peloton Land Solutions 9800 Hillwood Parkway Fort Worth, TX 76177

RE: Project: Well Water testing

Pace Project No.: 75151963

Dear Chris Hamilton:

Enclosed are the analytical results for sample(s) received by the laboratory on March 16, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace National Mt. Juliet
- Pace Analytical Services Corpus Christi
- Pace Analytical Services Dallas
- Pace Analytical Services Fort Worth

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Amy Bryant

(972)727-1123 Project Manager

Enclosures







CERTIFICATIONS

Project: Well Water testing

Pace Project No.: 75151963

Pace Analytical Services Dallas

Texas Certification T104704232-20-32

400 West Bethany Dr Suite 190, Allen, TX 75013

Florida Certification #: E871118

EPA# TX00074

Kansas Certification #: E-10388

Arkansas Certification #: 88-0647

Oklahoma Certification #: 8727 Louisiana Certification #: 30686

Iowa Certification #: 408

Pace Analytical Services Fort Worth

Texas Certificatiion T104704232-20-32

2657 Gravel Dr, Fort Worth, Texas 76118

EPA# TX00074

Pace Analytical Services National

12065 Lebanon Road, Mt. Juliet, TN 37122

Alabama Certification #: 40660

Alaska Certification 17-026

Arizona Certification #: AZ0612

Arkansas Certification #: 88-0469

California Certification #: 2932

Canada Certification #: 1461.01

Colorado Certification #: TN00003 Connecticut Certification #: PH-0197

DOD Certification: #1461.01

EPA# TN00003

Florida Certification #: E87487

Georgia DW Certification #: 923

Georgia Certification: NELAP Idaho Certification #: TN00003

Illinois Certification #: 200008

Indiana Certification #: C-TN-01

Iowa Certification #: 364

Kansas Certification #: E-10277

Kentucky UST Certification #: 16

Kentucky Certification #: 90010

Louisiana Certification #: Al30792

Louisiana DW Certification #: LA180010

Maine Certification #: TN0002

Maryland Certification #: 324

Massachusetts Certification #: M-TN003

Michigan Certification #: 9958

Minnesota Certification #: 047-999-395 Mississippi Certification #: TN00003

Missouri Certification #: 340

Montana Certification #: CERT0086

Nebraska Certification #: NE-OS-15-05

Nevada Certification #: TN-03-2002-34

New Hampshire Certification #: 2975

New Jersey Certification #: TN002

New Mexico DW Certification

New York Certification #: 11742

North Carolina Aquatic Toxicity Certification #: 41

North Carolina Drinking Water Certification #: 21704

North Carolina Environmental Certificate #: 375

North Dakota Certification #: R-140

Ohio VAP Certification #: CL0069

Oklahoma Certification #: 9915

Oregon Certification #: TN200002

Pennsylvania Certification #: 68-02979

Rhode Island Certification #: LAO00356

South Carolina Certification #: 84004

South Dakota Certification

Tennessee DW/Chem/Micro Certification #: 2006

Texas Certification #: T 104704245-17-14

Texas Mold Certification #: LAB0152

USDA Soil Permit #: P330-15-00234

Utah Certification #: TN00003

Vermont Dept. of Health: ID# VT-2006 Virginia Certification #: VT2006

Virginia Certification #: 460132

Washington Certification #: C847

West Virginia Certification #: 233

Wisconsin Certification #: 998093910

Wyoming UST Certification #: via A2LA 2926.01

A2LA-ISO 17025 Certification #: 1461.01 A2LA-ISO 17025 Certification #: 1461.02

AIHA-LAP/LLC EMLAP Certification #:100789

Pace Analytical Services Corpus Christi

2209 North Padre Island Drive - Suite K, Corpus Christi,

TX 78408

Texas Certification: T104704232-20-32





SAMPLE SUMMARY

Project: Well Water testing

Pace Project No.: 75151963

Lab ID	Sample ID	Matrix	Date Collected	Date Received
75151963001	Well house 1	Water	03/16/21 14:40	03/16/21 15:40





SAMPLE ANALYTE COUNT

Project: Well Water testing

Pace Project No.: 75151963

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
75151963001	Well house 1	SM 4500-CI G	MLW	1	PASI-CC
		SM 4500NorgB	MLW	1	PASI-CC
		SM 9223, Colilert	AGH	2	PASI-FTW
		EPA 200.7	CDP	22	PASI-D
		EPA 200.7	EL	1	PAN
		EPA 245.1	NCC	1	PASI-D
		SM 2520B Modified	CO	1	PAN
		EPA 120.1	EIG	1	PASI-D
		EPA 180.1	JAP2	1	PASI-D
		SM 2320B	JAP2	5	PASI-D
		SM 2540C	EIG	1	PASI-D
		SM 2540D	EIG	1	PASI-D
		Calculated	EL	1	PAN
		SM 4500-H+B	JAP2	1	PASI-D
		SM 5210B	AME	1	PASI-D
		40CFR PART 432.2	TJG	1	PASI-D
		EPA 300.0	JAP2	4	PASI-D
		EPA 353.2	JAP2	3	PASI-D
		SM 4500-NH3 H	MAH	1	PASI-D
		SM 4500-P E	LNM1	1	PASI-D
		SM 5310C	MAH	1	PASI-D
		SM 4500-P E	LNM1	1	PASI-D

PAN = Pace National - Mt. Juliet
PASI-CC = Pace Analytical Services - Corpus Christi
PASI-D = Pace Analytical Services - Dallas
PASI-FTW = Pace Analytical Services - Fort Worth



ANALYTICAL RESULTS

Project: Well Water testing

Pace Project No.: 75151963

Date: 04/19/2021 06:35 PM

Doromotoro		151963001	Collected: 03/16/2	1 17.70	110001100. 00	/16/21 15:40 I	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
4500CL G Chlorine, Residual CC	Analytical Me	ethod: SM 450	0-CI G					
	Pace Analytic	cal Services - 0	Corpus Christi					
Chlorine, Total Residual	ND	mg/L	0.050	1		03/19/21 10:04	7782-50-5	H6
CC 4500 Total Kjeldahl Nitrog	•		ONorgB Preparation	Method	l: SM 4500NorgE	3		
Nitrogen, Kjeldahl, Total	0.37	cal Services - (mg/L	0.040	1	03/19/21 10:30	03/19/21 15:05	7727-37-9	
		-						
FWSC Total Ecoli	-	ethod: SM 922 cal Services - I	3, Colilert Preparation Fort Worth	n Meth	od: SM 9223, Co	lilert		
Total Coliforms	2.0	MPN/100mL	1.0	1	03/16/21 17:25	03/17/21 17:41		
Escherichia coli (E.coli)	<1.0	MPN/100mL	1.0	1	03/16/21 17:25	03/17/21 17:41		
200.7 Metals, Total	Analytical Me	ethod: FPA 200	0.7 Preparation Meth	nod: FP	A 200.7			
	-	cal Services - I						
Aluminum	ND	ug/L	500	1	03/19/21 09:05	03/19/21 14:46	7429-90-5	
Antimony	ND	ug/L	25.0	1	03/19/21 09:05			
rsenic	ND	ug/L	20.0	1	03/19/21 09:05			
Barium	ND	ug/L	10.0	1	03/19/21 09:05			
Beryllium	ND	ug/L	1.0	1	03/19/21 09:05			
Boron	381	ug/L	100	1	03/19/21 09:05			
Cadmium	ND	ug/L	5.0	1	03/19/21 09:05			
Calcium	ND	ug/L	1000	1	03/19/21 09:05			
Chromium	ND	ug/L	7.0	1	03/19/21 09:05			
Copper	56.7	ug/L	20.0	1	03/19/21 09:05			
ron	ND	ug/L	500	1	03/19/21 09:05	03/19/21 14:46	7439-89-6	
.ead	18.1	ug/L	10.0	1	03/19/21 09:05			
Magnesium	ND	ug/L	1000	1	03/19/21 09:05	03/19/21 14:46	7439-95-4	
Manganese	ND	ug/L	50.0	1	03/19/21 09:05	03/19/21 14:46	7439-96-5	
lickel	ND	ug/L	10.0	1	03/19/21 09:05	03/19/21 14:46	7440-02-0	
Potassium	ND	ug/L	1000	1	03/19/21 09:05	03/19/21 14:46	7440-09-7	
Selenium	ND	ug/L	20.0	1	03/19/21 09:05	03/19/21 14:46	7782-49-2	
Silver	ND	ug/L	5.0	1	03/19/21 09:05	03/19/21 14:46	7440-22-4	
Sodium	201000	ug/L	1000	1	03/19/21 09:05	03/19/21 14:46	7440-23-5	
Strontium	74.4	ug/L	5.0	1	03/19/21 09:05	03/19/21 14:46	7440-24-6	
Hardness, Total(SM 2340B)	3170	ug/L		1	03/19/21 09:05	03/19/21 14:46	;	
Zinc	ND	ug/L	25.0	1	03/19/21 09:05	03/19/21 14:46	7440-66-6	
Metals (ICP) 200.7	Analytical Me Pace Nationa		0.7 Preparation Meth	nod: 200).7			
	5.72	mg/L	0.200	1	03/22/21 23:31	03/24/21 03:00	7440-21-3	
Silicon								
Silicon 245.1 Mercury	Analytical Me	ethod: EPA 245 cal Services - I	5.1 Preparation Meth	nod: EP	A 245.1			



ANALYTICAL RESULTS

Project: Well Water testing

Pace Project No.: 75151963

Date: 04/19/2021 06:35 PM

Sample: Well house 1	Lab ID: 751	51963001	Collected: 03/16/2	21 14:40	Received: 03	3/16/21 15:40 N	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Wet Chemistry 2520 B-2011	Analytical Meth		OB Modified Prepar	ation M	ethod: 2520 B-20	11		
Salinity	0.455	PSU	0.0500	1	03/25/21 18:28	03/25/21 18:28		
120.1 Specific Conductance 25C	Analytical Metl Pace Analytica							
Specific Conductance	873	umhos/cm	1.0	1		03/23/21 11:35		
180.1 Turbidity	Analytical Mether Pace Analytica							
Turbidity	ND	NTU	1.5	1		03/18/21 10:04		
2320B Alkalinity	Analytical Metl Pace Analytica							
Alkalinity, Hydroxide (CaCO3) Alkalinity, Phenolphthalein Alkalinity, Total as CaCO3 Alkalinity,Bicarbonate (CaCO3) Alkalinity,Carbonate (CaCO3)	ND 38.0 338 262 76.0	mg/L mg/L mg/L mg/L mg/L	20.0 20.0 20.0 20.0 20.0	1 1 1 1		03/18/21 15:00 03/18/21 15:00 03/18/21 15:00 03/18/21 15:00 03/18/21 15:00		
2540C Total Dissolved Solids	Analytical Meth							
Total Dissolved Solids	489	mg/L	25.0	1		03/17/21 14:01		
2540D Total Suspended Solids	Analytical Metl Pace Analytica							
Total Suspended Solids	4.6	mg/L	2.5	1		03/18/21 09:29		
Calculated Results	Analytical Metl Pace National		ed Preparation Me	thod: Ca	alc.			
Silica	12.2	mg/L	0.428	1	03/24/21 03:00	03/24/21 03:00	7631-86-9	
4500H+ pH, Electrometric	Analytical Metl Pace Analytica							
pH at 25 Degrees C	9.1	Std. Units	0.10	1		03/18/21 13:11		H3,H6
5210B BOD, 5 day	Analytical Meth Pace Analytica		DB Preparation Me	thod: SN	M 5210B			
BOD, 5 day	3.1	mg/L	2.0	1	03/17/21 14:01	03/22/21 11:27		
Total Nitrogen Calculation	Analytical Metl Pace Analytica							
Nitrogen	0.79	mg/L	0.10	1		03/23/21 09:50	7727-37-9	



ANALYTICAL RESULTS

Project: Well Water testing

Pace Project No.: 75151963

Date: 04/19/2021 06:35 PM

Sample: Well house 1	Lab ID: 751	51963001	Collected: 03/16/2	21 14:40	Received: 03	3/16/21 15:40 N	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
300.0 IC Anions 28 Days	Analytical Meth	nod: EPA 30	0.00					
	Pace Analytica	l Services -	Dallas					
Bromide	ND	mg/L	0.40	1		03/19/21 21:02	24959-67-9	
Chloride	6.9	mg/L	0.80	1		03/19/21 21:02	16887-00-6	
Fluoride	0.53	mg/L	0.50	1		03/19/21 21:02	16984-48-8	
Sulfate	46.6	mg/L	7.0	10		03/19/21 21:56	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Meth	nod: EPA 35	53.2					
	Pace Analytica	I Services -	Dallas					
Nitrogen, Nitrate	0.40	mg/L	0.050	1		03/18/21 11:21		
Nitrogen, Nitrite	ND	mg/L	0.050	1		03/18/21 11:21		
Nitrogen, NO2 plus NO3	0.42	mg/L	0.050	1		03/18/21 11:21		
4500 Ammonia Water	Analytical Meth	nod: SM 45	00-NH3 H					
	Pace Analytica	I Services -	Dallas					
Nitrogen, Ammonia	0.11	mg/L	0.10	1		03/22/21 10:13	7664-41-7	
4500PE Orthophosphate	Analytical Meth	nod: SM 45	00-P E					
	Pace Analytica	l Services -	Dallas					
Orthophosphate as P	ND	mg/L	0.040	1		03/18/21 09:04		
5310C TOC	Analytical Meth	nod: SM 53	10C					
	Pace Analytica	l Services -	Dallas					
Total Organic Carbon	1.1	mg/L	0.70	1		03/19/21 13:10	7440-44-0	
SM4500P-E, Total Phosphorus	Analytical Meth	nod: SM 45	00-P E Preparation N	Method: \$	SM4500-P B			
•	Pace Analytica	l Services -	Dallas					
Phosphorus	ND	mg/L	0.050	1	00/00/04 40:00	03/23/21 17:16	7700 44 0	



Project:

Well Water testing

Pace Project No.:

75151963

QC Batch:

QC Batch Method:

163123

SM 4500-CI G

Analysis Method:

SM 4500-CI G

Analysis Description:

4500CL G Chlorine, Total Residual CC

Laboratory:

Pace Analytical Services - Corpus Christi

Associated Lab Samples:

METHOD BLANK: 740714

75151963001

Matrix: Water

Associated Lab Samples: 75151963001

Parameter

Blank Result Reporting Limit Analyzed

Qualifiers

Chlorine, Total Residual

Units mg/L

ND

0.050 03/19/21 10:04

H6

LABORATORY CONTROL SAMPLE: 740715

Parameter

Spike Conc.

LCS

LCS % Rec

MSD

% Rec Limits

Qualifiers

Chlorine, Total Residual

Units mg/L

0.5

Result 0.49

85-115 H6

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:

740716

MSD

MS

740717

MS

98

MSD

% Rec

Max RPD

75151963001

Units

mg/L

MS

Spike

Result

% Rec

% Rec

Limits

15 H6

Parameter Chlorine, Total Residual Result

ND

Spike Conc.

Conc. 0.5 0.5

0.51

Result 0.54

93

99 85-115

RPD

Qual

Date: 04/19/2021 06:35 PM



Project: Well Water testing

Pace Project No.: 75151963

QC Batch: 163152 Analysis Method: SM 4500NorgB

QC Batch Method: SM 4500NorgB Analysis Description: CC 4500 Total Kjeldahl Nitrogen

Laboratory: Pace Analytical Services - Corpus Christi

Associated Lab Samples: 75151963001

METHOD BLANK: 740841 Matrix: Water

Associated Lab Samples: 75151963001

Blank Reporting Parameter Units Result Limit Analyzed Qualifiers

Nitrogen, Kjeldahl, Total mg/L ND 0.040 03/19/21 15:04

LABORATORY CONTROL SAMPLE: 740842

Spike LCS LCS % Rec
Parameter Units Conc. Result % Rec Limits Qualifiers

Nitrogen, Kjeldahl, Total mg/L 1 1.1 106 90-110

LABORATORY CONTROL SAMPLE: 740843

Date: 04/19/2021 06:35 PM

LCS LCS % Rec Spike Parameter Units Conc. Result % Rec Limits Qualifiers Nitrogen, Kjeldahl, Total 25.0 95 90-110 mg/L 26.2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 740844 740845

MS MSD 75151963001 MS MSD MS MSD Spike Spike % Rec Max Limits RPD Parameter Units Result Conc. Conc. Result Result % Rec % Rec **RPD** Qual 0.37 1 1 1.3 1.3 91 5 10 Nitrogen, Kjeldahl, Total mg/L 98 90-110

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project:

Well Water testing

Pace Project No.:

75151963

QC Batch:

162873

QC Batch Method: SM 9223, Colilert Analysis Method:

SM 9223, Colilert

Analysis Description:

9223B FWSC Total Ecoli FW

Laboratory:

Pace Analytical Services - Fort Worth

Associated Lab Samples:

Matrix: Water

METHOD BLANK: 739640 Associated Lab Samples:

75151963001

75151963001

Parameter

Units

Blank

Reporting Limit

Analyzed

Qualifiers

Escherichia coli (E.coli)

Total Coliforms

Total Coliforms

MPN/100mL

MPN/100mL

Units

<1.0 <1.0 1.0 03/17/21 17:41 1.0 03/17/21 17:41

SAMPLE DUPLICATE: 739641

75151930001 Result

Result

Dup Result

Max **RPD RPD**

Qualifiers

Parameter Escherichia coli (E.coli)

Date: 04/19/2021 06:35 PM

MPN/100mL MPN/100mL

<1.0 1.0 <1.0 <1.0 H1 H1



Project:

Well Water testing

Pace Project No.:

75151963

QC Batch:

1638694

Analysis Method:

EPA 200.7

QC Batch Method: 200.7

Analysis Description:

Metals (ICP) 200.7

Laboratory:

Pace National - Mt. Juliet

Analyzed

75151963001 Associated Lab Samples:

METHOD BLANK: R3634048-1 Matrix: Water

Associated Lab Samples:

75151963001

Units

mg/L

Units

mg/L

Blank Result Reporting Limit

Qualifiers

Parameter Silicon

Units mg/L

ND

0.200 03/24/21 02:10

LABORATORY CONTROL SAMPLE:

R3634048-2

Spike Conc.

LCS

LCS % Rec % Rec Limits

Qualifiers

Parameter Silicon

Parameter

Parameter

Units mg/L

L1327006-03

L1328545-01

Result

10.9

1.00

Result 0.972

97.2

85.0-115

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:

R3634048-4 MS Spike

Conc.

1.00

MSD Spike

Conc.

MS

Result

MSD Result

R3634048-5

11.8

MS % Rec MSD

% Rec

% Rec Limits

Max **RPD** RPD

Silicon

R3634048-6

MSD

1.00

R3634048-7

91.8

84.8 70.0-130 0.594

20

Qual

Qual

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:

MS

Spike

MSD Result

MS % Rec MSD

% Rec

Max RPD RPD

Silicon

Result 2.17

Spike Conc. 1.00

Conc. 1.00

Result 3.32

MS

3.28

11.7

115

% Rec Limits 111 70.0-130

1.27 20

Date: 04/19/2021 06:35 PM

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project: Well Water testing

Pace Project No.: 75151963

QC Batch: 163130 Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1 Analysis Description: 245.1 Mercury

Laboratory: Pace Analytical Services - Dallas

Associated Lab Samples: 75151963001

METHOD BLANK: 740729 Matrix: Water

Associated Lab Samples: 75151963001

Blank Reporting
Parameter Units Result Limit Analyzed Qualifiers

Mercury ug/L ND 0.20 03/19/21 14:41

LABORATORY CONTROL SAMPLE: 740730

Date: 04/19/2021 06:35 PM

Spike LCS LCS % Rec Conc. Result % Rec Limits Qualifiers Parameter Units Mercury 2.5 2.4 96 85-115 ug/L

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 740731 740732

MSD MS 75151817001 Spike Spike MS MSD MS MSD % Rec Max Parameter Units Conc. Conc. Result Result % Rec % Rec **RPD** RPD Result Limits Qual ND 20 Mercury ug/L 2.5 2.5 2.4 2.5 96 100 41-139

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 740733 740734

MS MSD 75151959002 MS MSD MS MSD Spike Spike % Rec Max **RPD** RPD Parameter Units Result Conc. Conc. Result Result % Rec % Rec Limits Qual 2.5 2.5 2 Mercury ND 2.5 2.4 98 100 41-139 20 ug/L

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project: Well Water testing

Pace Project No.: 75151963

QC Batch: 163111

QC Batch Method:

Selenium

Silver

Zinc

Sodium

Strontium

Date: 04/19/2021 06:35 PM

Associated Lab Samples:

Analysis Method: EPA 200.7

Analysis Description: 200.7 Metals, Total

Laboratory:

ug/L

ug/L

ug/L

ug/L

ug/L

Pace Analytical Services - Dallas

20.0 03/19/21 14:10

1000

5.0 03/19/21 14:10

5.0 03/19/21 14:10

25.0 03/19/21 14:10

03/19/21 14:10

Associated Lab Samples: 75151963001

EPA 200.7

75151963001

METHOD BLANK: 740671

Matrix: Water

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	500	03/19/21 14:10	
Antimony	ug/L	ND	25.0	03/19/21 14:10	
Arsenic	ug/L	ND	20.0	03/19/21 14:10	
Barium	ug/L	ND	10.0	03/19/21 14:10	
Beryllium	ug/L	ND	1.0	03/19/21 14:10	
Boron	ug/L	ND	100	03/19/21 14:10	
Cadmium	ug/L	ND	5.0	03/19/21 14:10	
Calcium	ug/L	ND	1000	03/19/21 14:10	
Chromium	ug/L	ND	7.0	03/19/21 14:10	
Copper	ug/L	ND	20.0	03/19/21 14:10	
Hardness, Total(SM 2340B)	ug/L	84.0		03/19/21 14:10	
Iron	ug/L	ND	500	03/19/21 14:10	
Lead	ug/L	ND	10.0	03/19/21 14:10	
Magnesium	ug/L	ND	1000	03/19/21 14:10	
Manganese	ug/L	ND	50.0	03/19/21 14:10	
Nickel	ug/L	ND	10.0	03/19/21 14:10	
Potassium	ug/L	ND	1000	03/19/21 14:10	

LABORATORY CONTROL SAMPLE:	740672					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
Aluminum	ug/L	10000	10400	104	85-115	
Antimony	ug/L	1000	1080	108	85-115	
Arsenic	ug/L	1000	1050	105	85-115	
Barium	ug/L	1000	1040	104	85-115	
Beryllium	ug/L	1000	1030	103	85-115	
Boron	ug/L	1000	1060	106	85-115	
Cadmium	ug/L	1000	1040	104	85-115	
Calcium	ug/L	10000	10300	103	85-115	
Chromium	ug/L	1000	1050	105	85-115	
Copper	ug/L	1000	1070	107	85-115	
Hardness, Total(SM 2340B)	ug/L		68700			
Iron	ug/L	10000	10600	106	85-115	
Lead	ug/L	1000	1120	112	85-115	

ND

ND

ND

ND

ND

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project: Well Water testing

Pace Project No.: 75151963

Date: 04/19/2021 06:35 PM

LABORATORY CONTROL SAMPL	E: 740672					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
Magnesium	ug/L	10000	10400	104	85-115	
Manganese	ug/L	1000	1050	105	85-115	
Nickel	ug/L	1000	1100	110	85-115	
Potassium	ug/L	10000	10000	100	85-115	
Selenium	ug/L	1000	1060	106	85-115	
Silver	ug/L	500	514	103	85-115	
Sodium	ug/L	10000	10300	103	85-115	
Strontium	ug/L	1000	1050	105	85-115	
Zinc	ug/L	1000	1070	107	85-115	

MATRIX SPIKE & MATRIX SP	IKE DUPL	ICATE: 7406	73		740674							
Parameter	Units	75151952001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qua
Aluminum	ug/L	1.1 mg/L	10000	10000	11300	12300	102	112	70-130	9	20	
Antimony	ug/L	ND	1000	1000	1040	1120	104	111	70-130	7	20	
Arsenic	ug/L	ND	1000	1000	1050	1140	105	113	70-130	8	20	
Barium	ug/L	0.054 mg/L	1000	1000	1010	1100	96	105	70-130	9	20	
Beryllium	ug/L	ND	1000	1000	962	1060	96	106	70-130	9	20	
Boron	ug/L	2.7 mg/L	1000	1000	3420	3740	76	108	70-130	9	20	
Cadmium	ug/L	ND	1000	1000	1030	1100	103	110	70-130	7	20	
Calcium	ug/L	143 mg/L	10000	10000	141000	154000	-24	112	70-130	9	20	M1
Chromium	ug/L	0.010 mg/L	1000	1000	979	1050	97	104	70-130	7	20	
Copper	ug/L	0.49 mg/L	1000	1000	1520	1660	103	117	70-130	9	20	
Hardness, Total(SM 2340B)	ug/L	376 mg/L			407000	447000				9		
Iron	ug/L	0.74 mg/L	10000	10000	10300	11300	95	105	70-130	9	20	
Lead	ug/L	ND	1000	1000	975	1040	97	103	70-130	6	20	
Magnesium	ug/L	4.5 mg/L	10000	10000	13600	15100	92	106	70-130	10	20	
Manganese	ug/L	ND	1000	1000	970	1050	95	103	70-130	8	20	
Nickel	ug/L	0.011 mg/L	1000	1000	980	1050	97	104	70-130	7	20	
Potassium	ug/L	13.9 mg/L	10000	10000	23000	25100	91	112	70-130	9	20	
Selenium	ug/L	ND	1000	1000	1080	1170	108	116	70-130	7	20	
Silver	ug/L	ND	500	500	524	569	105	114	70-130	8	20	
Sodium	ug/L	292 mg/L	10000	10000	276000	296000	-166	37	70-130	7	20	M1
Strontium	ug/L	0.43 mg/L	1000	1000	1350	1470	92	104	70-130	9	20	
Zinc	ug/L	0.034 mg/L	1000	1000	1000	1070	97	104	70-130	7	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project: Well Water testing

Pace Project No.: 75151963

Date: 04/19/2021 06:35 PM

MATRIX SPIKE & MATRIX SP	IKE DUPL	LICATE: 7406	75		740676							
			MS	MSD								
		75151953001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qua
Aluminum	ug/L	ND	10000	10000	10800	10700	105	104	70-130	1	20	
Antimony	ug/L	ND	1000	1000	1130	1140	113	114	70-130	1	20	
Arsenic	ug/L	ND	1000	1000	1100	1110	110	110	70-130	1	20	
Barium	ug/L	0.054 mg/L	1000	1000	1100	1100	105	105	70-130	0	20	
Beryllium	ug/L	ND	1000	1000	1050	1040	105	104	70-130	0	20	
Boron	ug/L	ND	1000	1000	1110	1100	105	104	70-130	1	20	
Cadmium	ug/L	ND	1000	1000	1060	1050	106	105	70-130	0	20	
Calcium	ug/L	36.7 mg/L	10000	10000	45900	45000	92	82	70-130	2	20	
Chromium	ug/L	ND	1000	1000	1020	1010	102	100	70-130	1	20	
Copper	ug/L	0.033 mg/L	1000	1000	1110	1110	107	107	70-130	0	20	
Hardness, Total(SM 2340B)	ug/L	109 mg/L			175000	172000				2		
ron	ug/L	0.67 mg/L	10000	10000	11100	10900	104	103	70-130	1	20	
_ead	ug/L	ND	1000	1000	1110	1110	110	111	70-130	0	20	
Magnesium	ug/L	4.2 mg/L	10000	10000	14600	14400	104	102	70-130	1	20	
Manganese	ug/L	ND	1000	1000	1050	1040	103	101	70-130	1	20	
Nickel	ug/L	ND	1000	1000	1080	1080	108	108	70-130	0	20	
Potassium	ug/L	12.8 mg/L	10000	10000	23500	23300	106	104	70-130	1	20	
Selenium	ug/L	ND	1000	1000	1130	1130	113	113	70-130	1	20	
Silver	ug/L	ND	500	500	524	515	105	103	70-130	2	20	
Sodium	ug/L	28.6 mg/L	10000	10000	39200	39100	107	106	70-130	0	20	
Strontium	ug/L	0.26 mg/L	1000	1000	1320	1320	106	105	70-130	0	20	
Zinc	ug/L	0.16 mg/L	1000	1000	1160	1160	101	100	70-130	0	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project:

Well Water testing

Pace Project No.:

75151963

QC Batch:

1640375

QC Batch Method: 2520 B-2011

Analysis Method:

Analysis Description:

SM 2520B Modified

Wet Chemistry 2520 B-2011

Laboratory:

Pace National - Mt. Juliet

Associated Lab Samples: 75151963001

Salinity

Salinity

METHOD BLANK: R3634911-1

Matrix: Water

Associated Lab Samples:

75151963001

ND

Parameter Units

Blank Result Reporting Limit

0.0500

Qualifiers Analyzed

03/25/21 18:28

LABORATORY CONTROL SAMPLE:

Parameter

Parameter

R3634911-2

PSU

Spike Conc.

LCS Result

LCS % Rec % Rec Limits

Qualifiers

Salinity

Units **PSU**

PSU

35.0

38.5

110

85.0-115

SAMPLE DUPLICATE: R3634911-3

Date: 04/19/2021 06:35 PM

Units

L1328947-01 Result 2.22

Dup Result 2.21

RPD 0.181

Max **RPD**

20

Qualifiers



Project:

Well Water testing

Pace Project No.:

75151963

QC Batch:

QC Batch Method:

163293

EPA 120.1

Analysis Method:

EPA 120.1

Analysis Description:

120.1 Specific Conductance

Laboratory:

Pace Analytical Services - Dallas

Associated Lab Samples:

75151963001

METHOD BLANK: 741509

Matrix: Water

Associated Lab Samples:

75151963001

Blank Result Reporting Limit

Analyzed

Qualifiers

Specific Conductance

Units umhos/cm

ND

1.0 03/23/21 11:30

LABORATORY CONTROL SAMPLE: 74°

Parameter

Parameter

741510

Spike Conc.

LCS Result LCS % Rec % Rec Limits

Qualifiers

Specific Conductance

Units umhos/cm

200 –

201

101

80-120

SAMPLE DUPLICATE: 741511

Parameter

Units

75151963001 Result Dup Result

RPD

Max RPD

Qualifiers

Specific Conductance

Date: 04/19/2021 06:35 PM

umhos/cm

873

858 2

20





Project:

Well Water testing

Pace Project No.:

75151963

QC Batch:

QC Batch Method:

163005

EPA 180.1

Analysis Method:

EPA 180.1

Analysis Description:

180.1 Turbidity

Laboratory:

Pace Analytical Services - Dallas

Associated Lab Samples:

75151963001

METHOD BLANK: 740211

Matrix: Water

Associated Lab Samples:

Parameter

75151963001

Blank Result Reporting Limit

Analyzed

Qualifiers

Turbidity

Turbidity

Units NTU

ND

1.5 03/18/21 10:04

SAMPLE DUPLICATE: 740212

75152063001 Result

Dup Result

RPD

9

Max RPD

Qualifiers

Date: 04/19/2021 06:35 PM

Parameter

Units NTU

3.4

3.7

20



Project: Well Water testing

Pace Project No.: 75151963

QC Batch: 163047 QC Batch Method: SM 2320B Analysis Method:

SM 2320B

Analysis Description:

2320B Alkalinity

Laboratory:

Pace Analytical Services - Dallas

Associated Lab Samples: 75151963001

METHOD BLANK: 740386

Matrix: Water

Associated Lab Samples: 75151963001

Parameter

Parameter

Blank Result

Reporting Limit

Qualifiers Analyzed

Alkalinity, Total as CaCO3 mg/L ND 20.0 03/18/21 14:24

LABORATORY CONTROL SAMPLE: 740387

Spike Conc.

LCS Result

LCS % Rec % Rec Limits

Qualifiers

Alkalinity, Total as CaCO3

Alkalinity, Total as CaCO3

Date: 04/19/2021 06:35 PM

Units mg/L

Units

mg/L

Units

250

100

268

98.0

107

90-110

SAMPLE DUPLICATE: 740388

Parameter

75151947003 Result

Dup Result

RPD

2

Max **RPD**

20

Qualifiers



Project: Well Water testing

Pace Project No.: 75151963

QC Batch: 162961 Analysis Method: SM 2540C

QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Dallas

Associated Lab Samples: 75151963001

METHOD BLANK: 739984 Matrix: Water

Associated Lab Samples: 75151963001

Blank Reporting
Parameter Units Result Limit Analyzed Qualifiers

Total Dissolved Solids mg/L ND 25.0 03/17/21 14:00

LABORATORY CONTROL SAMPLE: 739985

Spike LCS LCS % Rec Conc. Result % Rec Limits Qualifiers Parameter Units **Total Dissolved Solids** mg/L 250 272 109 85-115

SAMPLE DUPLICATE: 739986

75151833004 Dup Max
Parameter Units Result RPD RPD Qualifiers

Total Dissolved Solids mg/L 227 220 3 5

SAMPLE DUPLICATE: 739987

Date: 04/19/2021 06:35 PM

75151833005 Dup Max RPD RPD Parameter Units Result Result Qualifiers Total Dissolved Solids 418 0 5 mg/L 416

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



SM 2540D

Project: Well Water testing

Pace Project No.: 75151963

QC Batch: 163013 Analysis Method:

QC Batch Method: SM 2540D Analysis Description: 2540D Total Suspended Solids

Laboratory: Pace Analytical Services - Dallas

Associated Lab Samples: 75151963001

METHOD BLANK: 740239 Matrix: Water

Associated Lab Samples: 75151963001

Blank Reporting
Parameter Units Result Limit Analyzed Qualifiers

Total Suspended Solids mg/L ND 2.5 03/18/21 09:28

LABORATORY CONTROL SAMPLE: 740240

Spike LCS LCS % Rec Conc. Result % Rec Limits Qualifiers Parameter Units **Total Suspended Solids** mg/L 200 194 97 85-115

SAMPLE DUPLICATE: 740241

75151953001 Dup Max Parameter Units Result Result **RPD RPD** Qualifiers 81.0 Total Suspended Solids mg/L 27 10 D6 62.0

SAMPLE DUPLICATE: 740242

Date: 04/19/2021 06:35 PM

75151873001 Dup Max RPD RPD Parameter Units Result Result Qualifiers 78.0 74.0 5 10 Total Suspended Solids mg/L





Project:

Well Water testing

Pace Project No.:

75151963

QC Batch:

163048

QC Batch Method: SM 4500-H+B Analysis Method:

SM 4500-H+B

Analysis Description:

4500H+B pH

Laboratory:

Pace Analytical Services - Dallas

Associated Lab Samples: 75151963001

LABORATORY CONTROL SAMPLE:

Parameter

Spike

Conc.

LCS Result

LCS % Rec % Rec Limits

Qualifiers

pH at 25 Degrees C

pH at 25 Degrees C

Units Std. Units

6.0

100

99-101 H6

SAMPLE DUPLICATE: 740390

75151892001 Result

Dup Result

RPD

Max **RPD**

Qualifiers

Date: 04/19/2021 06:35 PM

Parameter

Units Std. Units

7.5

7.5

0

20 H3,H6



Project: Well Water testing

Pace Project No.: 75151963

QC Batch: 162895

QC Batch Method: SM 5210B

Analysis Method: SM 5210B

Matrix: Water

Analysis Description: 5210B BOD, 5 day

Laboratory:

Pace Analytical Services - Dallas

Associated Lab Samples: 75151963001

METHOD BLANK: 739784

Associated Lab Samples: 75151963001

Blank Reporting

Parameter Units Result Limit Analyzed Qualifiers

BOD, 5 day mg/L ND 2.0 03/22/21 10:39

LABORATORY CONTROL SAMPLE: 739786

Spike LCS LCS % Rec Conc. Result % Rec Limits Qualifiers Parameter Units BOD, 5 day mg/L 198 175 89 85-115

SAMPLE DUPLICATE: 739787

75151923004 Dup Max Parameter Units Result Result **RPD RPD** Qualifiers 681 BOD, 5 day mg/L 579 16 20

SAMPLE DUPLICATE: 739835

Date: 04/19/2021 06:35 PM

75151926001 Dup Max RPD RPD Parameter Units Result Result Qualifiers BOD, 5 day 3650 0 20 mg/L 3640



Project:

Well Water testing

Pace Project No.:

75151963

QC Batch:

163136

QC Batch Method: EPA 300.0

Date: 04/19/2021 06:35 PM

Analysis Method:

EPA 300.0

Analysis Description:

300.0 IC Anions

Laboratory:

Pace Analytical Services - Dallas

Associated Lab Samples: 75151963001

METHOD BLANK: 740762

Matrix: Water

Associated Lab Samples: 75151963001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Bromide	mg/L	ND ND	0.40	03/19/21 20:27	
Chloride	mg/L	ND	0.80	03/19/21 20:27	
Fluoride	mg/L	ND	0.50	03/19/21 20:27	
Sulfate	mg/L	ND	0.70	03/19/21 20:27	

LABORATORY CONTROL SAMPLE:	740763	Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
Bromide	mg/L	5	5.1	103	90-110	
Chloride	mg/L	5	4.8	97	90-110	
Fluoride	mg/L	5	5.2	105	90-110	
Sulfate	mg/L	5	5.1	103	90-110	

MATRIX SPIKE & MATRIX SP	PIKE DUPLIC	CATE: 7407	64		740765							
			MS	MSD								
	7	5151963001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Bromide	mg/L	ND	5	5	5.2	5.3	101	103	90-110	2	20	
Chloride	mg/L	6.9	5	5	11.8	11.9	97	100	90-110	1	20	
Fluoride	mg/L	0.53	5	5	5.8	5.8	105	106	90-110	1	20	
Sulfate	mg/L	46.6	50	50	97.1	98.5	101	104	90-110	1	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project:

Well Water testing

Pace Project No.:

75151963

QC Batch:

163009

QC Batch Method:

Analysis Method:

EPA 353.2

EPA 353.2

Analysis Description:

353.2 Nitrate + Nitrite, Unpres.

Laboratory:

Pace Analytical Services - Dallas

Associated Lab Samples: 75151963001

METHOD BLANK: 740224

Date: 04/19/2021 06:35 PM

Matrix: Water

Associated Lab Samples: 75151963001

		Blank	Reporting		
Parameter	Units	Result	Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.050	03/18/21 10:56	
Nitrogen, Nitrite	mg/L	ND	0.050	03/18/21 10:56	
Nitrogen, NO2 plus NO3	mg/L	ND	0.050	03/18/21 10:56	

LABORATORY CONTROL SAMPLE: 740225

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L		ND			
Nitrogen, Nitrite	mg/L	2.5	2.6	105	90-110	
Nitrogen, NO2 plus NO3	mg/L	2.5	2.6	103	90-110	

MATRIX SPIKE & MATRIX SP	IKE DUPL	ICATE: 7402	26		740227							
			MS	MSD								
		75151896004	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Nitrogen, Nitrate	mg/L	ND			ND	ND					20	
Nitrogen, Nitrite	mg/L	ND	2.5	2.5	2.6	2.6	104	105	90-110	0	20	
Nitrogen, NO2 plus NO3	mg/L	ND	2.5	2.5	2.6	2.6	102	102	90-110	0	20	

MATRIX SPIKE & MATRIX SP	PIKE DUPL	ICATE: 7402	28		740229							
			MS	MSD								
		75151963001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Nitrogen, Nitrate	mg/L	0.40			0.34	0.34				0	20	
Nitrogen, Nitrite	mg/L	ND	2.5	2.5	2.6	2.6	104	105	90-110	0	20	
Nitrogen, NO2 plus NO3	mg/L	0.42	2.5	2.5	3.0	3.0	102	102	90-110	0	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project: Well Water testing

Pace Project No.: 75151963

Date: 04/19/2021 06:35 PM

QC Batch: 163199

QC Batch Method: SM 4500-NH3 H Analysis Method: SM 4500-NH3 H

Analysis Description: 4500 Ammonia

Laboratory:

Pace Analytical Services - Dallas

Qualifiers

Associated Lab Samples: 75151963001

METHOD BLANK: 741092 Matrix: Water

Associated Lab Samples: 75151963001

> Blank Reporting Parameter Units Result Limit Analyzed

Nitrogen, Ammonia ND 0.10 03/22/21 10:10 mg/L

LABORATORY CONTROL SAMPLE: 741093

Spike LCS LCS % Rec Conc. Result % Rec Limits Qualifiers Parameter Units Nitrogen, Ammonia 5.2 104 80-120 mg/L

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 741094

741095

MSD MS 75152037001 Spike Spike MS MSD MS MSD % Rec Max Parameter Units Conc. Result Result % Rec **RPD** RPD Result Conc. % Rec Limits Qual ND 5 20 Nitrogen, Ammonia mg/L 5 4.9 4.8 96 96 80-120

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 741096 741097

MS MSD 75151927001 MS MSD MS MSD Spike Spike % Rec Max **RPD** RPD Parameter Units Result Conc. Conc. Result Result % Rec % Rec Limits Qual ND 5 5 4.8 4.8 96 Nitrogen, Ammonia 95 80-120 0 20 mg/L

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project: Well Water testing

Pace Project No.: 75151963

QC Batch: 163003

Date: 04/19/2021 06:35 PM

QC Batch Method: SM 4500-P E

Analysis Method: SM 4500-P E

Analysis Description: 4500PE Orthophosphate

Laboratory: Pace Analytical Services - Dallas

Associated Lab Samples: 75151963001

METHOD BLANK: 740202 Matrix: Water

Associated Lab Samples: 75151963001

Blank Reporting

Parameter Units Result Limit Analyzed Qualifiers

Orthophosphate as P mg/L ND 0.040 03/18/21 08:40

LABORATORY CONTROL SAMPLE: 740203

Parameter Units Spike LCS LCS % Rec
Conc. Result % Rec Limits Qualifiers

Orthophosphate as P mg/L 0.25 0.24 96 90-110

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 740204 740205

MSD MS 75151947002 Spike Spike MS MSD MS MSD % Rec Max Parameter Units Conc. Result Result % Rec **RPD** RPD Qual Result Conc. % Rec Limits

Orthophosphate as P mg/L ND 0.25 0.25 0.25 98 97 90-110 1 20

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 740206 740207

MS MSD 75151947003 MS MSD MS MSD % Rec Spike Spike Max **RPD** RPD Parameter Units Result Conc. Conc. Result Result % Rec % Rec Limits Qual ND 101 20 Orthophosphate as P 0.25 0.25 0.26 0.26 101 90-110 0 mg/L

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project:

Well Water testing

Pace Project No.:

75151963

QC Batch:

163101

QC Batch Method: SM 5310C Analysis Method:

SM 5310C

Analysis Description:

5310C Total Organic Carbon

Laboratory:

Pace Analytical Services - Dallas

Associated Lab Samples: 75151963001

METHOD BLANK: 740641

Total Organic Carbon

Matrix: Water

ND

Associated Lab Samples: 75151963001

Parameter Units

Blank Result Reporting Limit

0.70

Analyzed Qualifiers

03/19/21 12:17

LABORATORY CONTROL SAMPLE: 740642

Parameter

Spike Conc.

LCS Result

LCS % Rec % Rec Limits

Qualifiers

Total Organic Carbon 10 10.5 105 90-110 mg/L

mg/L

Units

75151858001

75152120001

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:

740643 MS

Spike

MS

Spike

MSD

740644

740652

MS

MS

MSD

MS MSD % Rec

Max **RPD** RPD

Parameter Units Conc. Conc. Result Result Result % Rec % Rec Limits Qual **Total Organic Carbon** 16.2 20 mg/L 5.6 10 10 16.3 107 107 80-120 0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:

Date: 04/19/2021 06:35 PM

740651

Spike

MSD Spike MSD

MSD

MS

% Rec

Max

RPD RPD Parameter Units Result Conc. Conc. Result Result % Rec % Rec Limits Qual Total Organic Carbon 27.8 10 10 2 39.1 39.8 114 121 80-120 20 M1 mg/L

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project:

Well Water testing

Pace Project No.:

75151963

QC Batch:

163302

QC Batch Method: SM4500-P B Analysis Method:

SM 4500-P E

Analysis Description:

SM4500P-E, Total Phosphorus

Laboratory:

Pace Analytical Services - Dallas

Associated Lab Samples: 75151963001

Parameter

Parameter

Parameter

Parameter

Date: 04/19/2021 06:35 PM

Phosphorus

Phosphorus

METHOD BLANK: 741582

Matrix: Water

Associated Lab Samples:

75151963001

Units

mg/L

Units

mg/L

Blank

Units

Reporting Limit

Analyzed Qualifiers

Phosphorus ND 0.050 03/23/21 17:15 mg/L

LABORATORY CONTROL SAMPLE: 741583

Units

75152228001

Result

Result

0.060

0.44

Spike Conc.

Result

LCS Result

LCS % Rec

MSD

Result

0.93

% Rec Limits

Qualifiers

Limits

80-120

Phosphorus 0.5 0.51 102 80-120 mg/L

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:

741609 MS

Spike

Conc.

0.5

0.5

MSD

0.5

0.5

741610 MS

0.93

Result

MS

% Rec

98

MSD % Rec

99

% Rec

Max **RPD** RPD Qual

20

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:

741611

MSD

Spike

Conc.

741612 MS

0.87

MS

MSD

% Rec

Max RPD Qual

75152007002

MS Spike Conc.

Spike Conc.

MSD Result Result

% Rec 90 0.82

% Rec

Limits 81

RPD 5 20 80-120

REPORT OF LABORATORY ANALYSIS

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, LLC.





QUALIFIERS

Project: Well Water testing

Pace Project No.: 75151963

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The Nelac Institute

ANALYTE QUALIFIERS

Date: 04/19/2021 06:35 PM

	D6	The precision between the sample and sample duplicate exceeded laboratory control limits.
--	----	---

H1 Analysis conducted outside the EPA method holding time.

H3 Sample was received or analysis requested beyond the recognized method holding time.

H6 Analysis initiated outside of the 15 minute EPA required holding time.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Well Water testing

Pace Project No.: 75151963

Date: 04/19/2021 06:35 PM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
75151963001	Well house 1	SM 4500-CI G	163123	_	
75151963001	Well house 1	SM 4500NorgB	163152	SM 4500NorgB	163176
75151963001	Well house 1	SM 9223, Colilert	162873	SM 9223, Colilert	162991
75151963001	Well house 1	EPA 200.7	163111	EPA 200.7	163137
75151963001	Well house 1	200.7	1638694	EPA 200.7	1638694
75151963001	Well house 1	EPA 245.1	163130	EPA 245.1	163139
75151963001	Well house 1	2520 B-2011	1640375	SM 2520B Modified	1640375
75151963001	Well house 1	EPA 120.1	163293		
75151963001	Well house 1	EPA 180.1	163005		
75151963001	Well house 1	SM 2320B	163047		
75151963001	Well house 1	SM 2540C	162961		
75151963001	Well house 1	SM 2540D	163013		
75151963001	Well house 1	Calc.	1638694	Calculated	1638694
75151963001	Well house 1	SM 4500-H+B	163048		
75151963001	Well house 1	SM 5210B	162895	SM 5210B	162980
75151963001	Well house 1	40CFR PART 432.2	163280		
75151963001	Well house 1	EPA 300.0	163136		
75151963001	Well house 1	EPA 353.2	163009		
75151963001	Well house 1	SM 4500-NH3 H	163199		
75151963001	Well house 1	SM 4500-P E	163003		
75151963001	Well house 1	SM 5310C	163101		
75151963001	Well house 1	SM4500-P B	163302	SM 4500-P E	163333

Pace Analytical*	Document Name: Sample Condition Upon Receipt	Document Revised: 7/27/20
1	Document No.:	Page 1 of 1 issuing Authority:
	F-DAL-C-001-rev.14	Pace Dallas Quality Office
Co. II	Sample Condition Upon Rec	
DOali Control of the	las Þift Worth □Cori WO	#:75151903
Client Name: Ciloton Land S Courier: FedEX © UPS © USPS © Client & L Tracking #:	- Constant	
Custody Seal on Cooler/Box: Yes O No be Received on ice: Wet b Blue O No ice		
Receiving Lab 1 Thermometer Used: Pur	MØ3 Cooler Temp *C. S. Sco	matality of the second S. S.
Receiving Lab 2 Thermometer Used: 1 K	Cooler Temp °C: -() . (Reco	orded) (Correction Factor) 5 8 (Actual) orded) (Correction Factor) D. (Actual)
Temperature should be above freezing to	5°C unless collected same day as receipt in	which evidence of cooling is acceptable
Triage Person: Da	ite: 3-16-21	3
Chain of Custody relinquished	Yes & No a	
Sampler name & signature on COC	Yes d' No 🗅	
Short HT analyses (<72 hrs)	Yes Mo D	
Login Person: 10 Dat	e: 3/16/11 Yes & No D	
Correct Container used		
	Yes & No D	
Container Intact	Yes to No D	
Sample pH Acceptable	Yes a No D I	NA n
pH Strips: 9371	4	
Ci Strips:	Yes a No a 1	ANG
Sulfide Present Lead Acetate Strips:	Yes 🗆 No 🗖 🕴	VAP
Are soil samples (volatiles, TPH) receiv (not appl cable to TCLP VOA or PST Progr	ram TPH)	NA B
Unpreserved 5035A soil frozen within	48 hrs Yes D No D N	A A
Headspace in VOA (>6mm)	Yes 🗆 No 🗆 N	
Project sampled in USDA Regulated Art Texas State Sampled:	ea outside of Yes D No D I	A AV
Non-Conformance(s):	Yes 🗆 No 🖎	
Labeling Person (If different than log-in):	Date:	

CHAIN-OF-CUSTODY / Analytical Request Document
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

δ 2 8 CAMI Residuel Chlorine (YMI) Page : 200-00-DIE GMBT COLTON MPN 40 DOT Total Ch orine Residual ALIMITYS 1 200 T 245 1 AA, Aniona Cond, TDS Turo 7 most state Nab-8 GGG 321 NA Analyses Test N#58503 HOTH HCI HINDS HSSON 8 S OF CONTANERS PROOF Name of SAMPLESE: 77 SIGNATURE of SAMPLER. SAMPLE TEMP AT COLLECTION PARTE THE DIES AND PART HIS 8 DATE COLLECTED START Das Date: 03/23/21 Prepared Project Infor-Prepart To. Chris Has Copy To. SYMPLE TYPE COOKING COCOMPS Project Name - Project 8 MATRIX CODE (see valid todes to left) Q.IBIT: Peloton Land 2401 3 3 SAMPLE ID
One Character per box.
(A-2, 0-4/, -)
Semple its must be unique 8 uellhas sted Due Day 8 0 2 : * Mati

CONTRACTOR	order: 75151963 Wo l	rkorder N	na Sample	es Pre-Logged Vater testing	into eCC	oc.		Ce	ert.	Of O Need er Re	ded	: [N Y		3/16	No 5/2021		Resu	Its R	eques		ce Analytical www.pacelabs.com By: 3/23/2021
Report			Subcontra	e in the state of the											R	equest	ed A	nalys	is			
400 W Suite Allen,	Analytical Dallas est Bethany Drive		1206 Mt. J	National 5 Lebanon Rd uliet, TN 37122 e (615) 758-585			Proces	November 1	Con	tainers		Salinity	Silica/Silicon by 200.7									
Item S	ample (D	Sample Type	Collect Date/Time	Lab ID	Matrix	HN03	Unpreserved			taillet	2		Silica									U328809
1 W	ell house 1	PS	3/16/2021 14:40	75151963001	Water	1	1					X	Х									-07
2																						
3												100										A. de
5		+ **	*			-	-				_	15-22						+				
9																	1		Comm	ents		A STATE OF THE STA
Transf		Paco.	Date/Time	Received I	feel of	iv	9			Date/	12	11	200	١					- Wes			
Coole	r Temperature on Receip	ot 0,1	°C Cu	stody Seal	or N	1	T	R	ece	eived	on	Ice	X	or	N		T		Samr	les In	tact	Y or N
***In o	rder to maintain client consi s chain of custody is consi	fidentiality	, location/name	e of the sampli	ing site, s	samp vaila	ble i	nam	ne a	nd si	gna	ture	ma	y no	t be p			n thi	s CO	C doc	umen	

COC Seal Present/Intact: N If Applicable
COC Signed/Accurate: N VOA Zero Headspace: Y N
Bottles arrive intact: N Pres.Correct/Check: N N
Sufficient volume sent: N N
RAD Screen <0.5 mR/hr: Y N



Pace Analytical® ANALYTICAL REPORT

June 07, 2021

Peloton Land Solutions

Sample Delivery Group:

L1349545

Samples Received:

05/07/2021

Project Number:

Description:

Well Water Testing

Report To:

Chris Hamilton

9800 Hillwood Parkway

Fort Worth, TX 76177



















Entire Report Reviewed By:

MIDWRX

Amy Bryant Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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33

SAMPLE SUMMARY

WELL HOUSE 2 L1349545-01 WW

Collected by David Bryant Collected date/time Received date/time 05/07/21 12:15

05/07/2112:59

Тс



















CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.























MadeRt

Sample Delivery Group (SDG) Narrative

The following analysis were performed from an unpreserved, insufficiently or inadequately preserved sample.

Lab Sample ID

Project Sample ID

Method 5310C

L1349545-01

WELL HOUSE 2

SAMPLE RESULTS - 01

Collected date/time: 05/07/21 12:15

Microbiology by Method 9223B

• • •						
	Result	Qualifier	Dilution	Analysis	Batch	
Analyte				date / time		
Coliform,Total	<1	<u>T8</u>	1	05/11/2021 09:17	WG1668183	
F.Coli	<1	T8	1	05/11/2021 09:17	WG1668183	





Ss

Calculated Results

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Nitrogen	0.679		0.0500	1	05/13/2021 14:05	WG1667552
Silica	12.7		0.428	1	05/15/2021 13:18	WG1670272



⁵Sr

Gravimetric Analysis by Method 2540C

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Total Dissolved Solids	502		25.0	1	05/11/2021 14:31	<u>WG1668480</u>



GI

Gravimetric Analysis by Method 2540D

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Suspended Solids	7.00		2.50	1	05/12/2021 13:51	WG1669154



ΆΙ

Wet Chemistry by Method 120.1

	Result	Qualifier	RDL	Dilution	Analysis	Batch	
Analyte	umhos/cm		umhos/cm		date / time		
Specific Conductance	877		1.00	1	05/11/2021 16:14	WG1668222	

Wet Chemistry by Method 180.1

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	NTU		NTU		date / time	
Turbidity	1.76		1.50	1	05/08/2021 10:19	WG1666857

Wet Chemistry by Method 2320B

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Alkalinity	394		20.0	1	05/11/2021 11:30	WG1668326
Alkalinity,Bicarbonate	<20.0		20.0	1	05/11/2021 11:30	WG1668326
Alkalinity,Carbonate	704		20.0	1	05/11/2021 11:30	WG1668326
Phenolphthalein Alkalinity	42.0		20.0	1	05/11/2021 11:30	WG1668326

Wet Chemistry by Method 300.0

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Bromide	<0.400		0.400	1	05/11/2021 13:47	WG1668110
Chloride	6.67		0.800	1	05/11/2021 13:47	WG1668110
Fluoride	0.522		0.500	1	05/11/2021 13:47	WG1668110
Nitrate	<0.500		0.500	1	05/08/2021 09:48	WG1666850
Nitrite	<0.500		0.500	1	05/08/2021 09:48	WG1666850
Sulfate	40.4		7.00	10	05/11/2021 14:41	WG1668110

Wet Chemistry by Method 350.1

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Ammonia Nitrogen	0.522		0.250	1	05/12/2021 16:45	WG1668660

WELL HOUSE 2

SAMPLE RESULTS - 01

L1349545

Collected date/time: 05/07/21 12:15 Wet Chemistry by Method 351.2

	Result	Qualifier	RDL	Dilution	Analysis	<u>Batch</u>
Analyte	mg/l		mg/l		date / time	
Kieldahl Nitrogen, TKN	0.370		0.250	1	05/14/2021 10:08	WG1669309

Cp Tc

Wet Chemistry by Method 353.2

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Nitrate-Nitrite	<0.0500		0.0500	1	05/10/2021 17:24	WG1667552



Wet Chemistry by Method 4500Cl G-2011

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Chlorine,residual	<0.100	<u>T8</u>	0.100	1	05/10/2021 12:02	<u>WG1664907</u>



Cn

Wet Chemistry by Method 4500P-E

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Phosphorus, Total	<0.0500		0.0500	1	05/13/2021 14:51	WG1668900



Wet Chemistry by Method 5310C

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
TOC (Total Organic Carbon)	1.45		0.700	1	06/01/2021 17:26	WG1680844



ΆΙ

Wet Chemistry by Method SM 4500-H+B

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	Su			date / time	
рН	9.22	<u>T8</u>	1	05/11/2021 10:34	WG1668148

Sample Narrative:

L1349545-01 WG1668148: 9.22 at 21.9C

Wet Chemistry by Method SM5210B

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
BOD	<2.00		2.00	1	05/13/2021 07:28	WG1666760

Mercury by Method 245.1

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Mercury	<0.000200		0.000200	1	05/28/2021 16:24	WG1679290

Metals (ICP) by Method 200.7

	Result	Qualifier	RDL	Dilution	Analysis	<u>Batch</u>
Analyte	mg/l		mg/l		date / time	
Aluminum	<0.500		0.500	1	05/28/2021 17:41	WG1678520
Antimony	<0.0250		0.0250	1	05/28/2021 17:41	WG1678520
Arsenic	<0.0200		0.0200	1	05/28/2021 17:41	WG1678520
Barium	<0.0100		0.0100	1	05/28/2021 17:41	WG1678520
Beryllium	<0.00100		0.00100	1	05/28/2021 17:41	WG1678520
Boron	0.399		0.100	1	05/28/2021 17:41	WG1678520
Cadmium	<0.00500		0.00500	1	05/28/2021 17:41	WG1678520
Calcium	1.03		1.00	1	05/28/2021 17:41	WG1678520
Chromium	<0.00700		0.00700	1	05/28/2021 17:41	WG1678520

WELL HOUSE 2

SAMPLE RESULTS - 01

L1349545

Metals (ICP) by Method 200.7

Collected date/time: 05/07/21 12:15

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	_
Cobalt	<0.00250		0.00250	1	05/28/2021 17:41	WG1678520
Copper	0.135		0.0200	1	05/28/2021 17:41	WG1678520
Iron	<0.500		0.500	1	05/28/2021 17:41	WG1678520
Lead	<0.0100		0.0100	1	05/28/2021 17:41	WG1678520
Magnesium	<1.00		1.00	1	05/28/2021 17:41	WG1678520
Manganese	<0.0500		0.0500	1	05/28/2021 17:41	WG1678520
Nickel	<0.0100		0.0100	1	05/28/2021 17:41	WG1678520
Potassium	<1.00		1.00	1	05/28/2021 17:41	WG1678520
Selenium	<0.0200		0.0200	1	05/28/2021 17:41	WG1678520
Silver	<0.00500		0.00500	1	05/28/2021 17:41	WG1678520
Sodium	206		1.00	1	05/28/2021 17:41	WG1678520
Strontium	0.0687		0.00500	1	05/28/2021 17:41	WG1678520
Silicon	5.94		0.200	1	05/15/2021 13:18	WG1670272
Zinc	0.329		0.0250	1	05/28/2021 17:41	WG1678520





















QUALITY CONTROL SUMMARY

Microbiology by Method 9223B

L1349545-01

Method Blank (MB)

(MB) R3652799-1 05/11/21 09:17								
	MB Result	MB Qualifier	MB MDL	MB RDL	2			
Analyte					² Tc			
Coliform,Total	<1							
E.Coli	<1				³ S s			

L1349545-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1349545-01 05/11/21 09:17 • (DUP) R3652799-2 05/11/21	799-2 05/11/21 09) R3652799-2	 (DUP) 	1 09:17	05/11/2	L1349545-01	(OS)
---	-------------------	--------------	---------------------------	---------	---------	-------------	------

,	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte				%		%
Coliform,Total	<1	<1	1	0.000		20
E.Coli	<1	<1	1	0.000		20











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QUALITY CONTROL SUMMARY

Gravimetric Analysis by Method 2540C

L1349545-01

Method Blank (MB)

(MB) R3653454-1 05/11/2	1 14:31			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Total Dissolved Solids	<25.0		25.0	25.0





Ss

L1349545-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1349545-01 05/11/21 14:31 • (DUP) R3653454-3 05/11/21 14:31

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Total Dissolved Solids	502	513	1	2.17		5



[†]Cn





Laboratory Control Sample (LCS)

(LCS) R3653454-2 05/11/21 14:31

(200) 10000 1012 00/11/2	Spike Amount	nt LCS	CS Result	LCS Rec.	Rec. Limits
Analyte	mg/l	mg/	ng/l	%	%
Total Dissolved Solids	250	260	60	104	85.0-115







QUALITY CONTROL SUMMARY

Gravimetric Analysis by Method 2540D

L1349545-01

Method Blank (MB)

(MB) R3653822-1 05/12/	21 13:51			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Suspended Solids	<2.50		2.50	2.50





L1349446-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1349446-01 05/12/21 13:51 • (DUP) R3653822-3 05/12/21 13:51

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Suspended Solids	273	300	1	9.31		10



Cn



⁶Qc

L1349986-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1349986-03 05/12/21 13:51 • (DUP) R3653822-4 05/12/21 13:51

, ,	Original Result			DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Suspended Solids	287	280	1	2.36		10



⁹Sc

Laboratory Control Sample (LCS)

(LCS) R3653822-2 05/12/21 13:51

QUALITY CONTROL SUMMARY

L1349545-01

Wet Chemistry by Method 120.1

Method Blank (MB)

(MB) R3653047-1 05/11/2	21 16:14			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	umhos/cm		umhos/cm	umhos/cm
Specific Conductance	<1.00		1.00	1.00





Ss

L1349436-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1349436-01 05/11/21 16:14 • (DUP) R3653047-3 05/11/21 16:14

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	umhos/cm	umhos/cm		%		%
Specific Conductance	353	353	1	0.000		20







Laboratory Control Sample (LCS)

(LCS) R3653047-2 05/11/21 16:14

(12, 12111		LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	umhos/cm	umhos/cm	%	%	
Specific Conductance	200	189	94.4	80.0-120	





QUALITY CONTROL SUMMARY

L1349545-01

Wet Chemistry by Method 180.1

Method Blank (MB)

(MB) R3651947-1	05/08/21 10:19

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	NTU		NTU	NTU
Turbidity	<0.641		0.641	1.50



Ss

L1349545-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1349545-01 05/08/21 10:19 • (DUP) R3651947-2 05/08/21 10:19

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	NTU	NTU		%		%
Turbidity	1.76	1.78	1	1.13		20



[†]Cn











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QUALITY CONTROL SUMMARY

Wet Chemistry by Method 2320B Method Blank (MB)

(MR) R3652991-1 05/11/21 11:30

(IVID) K3032991-1 03/11/2	111.50			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Alkalinity	<20.0		20.0	20.0
Alkalinity,Bicarbonate	<20.0		20.0	20.0
Alkalinity,Carbonate	<20.0		20.0	20.0
Phenolphthalein Alkalinity	<20.0		20.0	20.0







L1347307-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1347307-01 05/11/21 11:30 • (DUP) R3652991-3 05/11/21 11:30

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Alkalinity	88.0	98.0	1	10.8		20





L1349545-01 Original Sample (OS) • Duplicate (DUP)

(OS) L13/495/15-01 05/11/21 11:30 • (DLIP) P3652991-/ 05/11/21 11:30

(03) 21343343 01 03/11/21	11.50 - (DOI) 10	3032331 + 03	711/2111.50	,		
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Alkalinity	394	328	1	18.3		20



Laboratory Control Sample (LCS)

(LCS) R3652991-2 05/11/21 11:30

QUALITY CONTROL SUMMARY

L1349545-01

Wet Chemistry by Method 300.0

Method Blank (MB)

(MB) R3652291-1 05/08	/21 09:12			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Nitrate	<0.207		0.207	0.500
Nitrite	< 0.0922		0.0922	0.500





Laboratory Control Sample (LCS)

(LCS) R3652291-2 05/08/21 09:30

(LC3) K3032291-2 03/0	0/2109.30				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Nitrate	5.00	4.90	98.0	90.0-110	
Nitrite	5.00	5.23	105	90.0-110	







L1349545-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1349545-01_05/08/21 09:48 • (MS) R3652291-3_05/08/21 10:05 • (MSD) R3652291-4_05/08/21 10:23

(00) 110+30+3 01 03/00/2	73) E1343343 OT 03/00/21 03/40 1/113/13032231 3 03/00/21 10.03 1/113/13032231 4 03/00/21 10.23											
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Nitrate	5.00	<0.500	4.74	4.60	94.7	92.0	1	90.0-110			2.94	20
Nitrite	5.00	<0.500	5 31	5 19	106	104	1	90 0-110			2 34	20







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QUALITY CONTROL SUMMARY

L1349545-01

Method Blank (MB)

Wet Chemistry by Method 300.0

(MB) R3653255-1 05/11/21 10:13

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Bromide	<0.0763		0.0763	0.400
Chloride	0.163	<u>J</u>	0.0541	0.800
Fluoride	<0.198		0.198	0.500
Sulfate	< 0.393		0.393	0.700









Laboratory Control Sample (LCS)

(LCS) R3653255-2 05/11/21 10:31

()					
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Bromide	5.00	5.04	101	90.0-110	
Chloride	5.00	4.82	96.5	90.0-110	
Fluoride	5.00	4.65	92.9	90.0-110	
Sulfate	5.00	4.99	99.9	90.0-110	







⁸Al

L1349545-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

 $(OS)\,L1349545-O1\ O5/11/21\,13:47 \bullet (MS)\,R3653255-3\ O5/11/21\,14:O5 \bullet (MSD)\,R3653255-4\ O5/11/21\,14:23$

(/				,								
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Bromide	5.00	<0.400	5.16	5.31	98.3	101	1	90.0-110			2.97	20
Chloride	5.00	6.67	11.2	11.3	90.6	93.2	1	90.0-110			1.16	20
Fluoride	5.00	0.522	5.13	5.30	92.1	95.5	1	90.0-110			3.24	20

⁹Sc

L1349545-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1349545-01 05/11/21 14:41 • (MS) R3653255-5 05/11/21 14:59 • (MSD) R3653255-6 05/11/21 15:16

(,	, ,	Original Result		MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Sulfate	50.0	40.4	92.2	94.5	104	108	10	90.0-110			2.47	20

QUALITY CONTROL SUMMARY

L1349545-01

Wet Chemistry by Method 350.1

Method Blank (MB)

(MB) R3653782-1	05/12/21 16:15	

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Ammonia Nitrogen	<0.117		0.117	0.250





³Ss

L1349278-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1349278-01 05/12/21 16:25 • (DUP) R3653782-5 05/12/21 16:27

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Ammonia Nitrogen	7.21	7.12	5	1.31		10





⁶Qc

L1349851-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1349851-02 05/12/21 16:50 • (DUP) R3653782-7 05/12/21 16:52

(03) 11343631-02 03/12/2	Original Result			DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Ammonia Nitrogen	<0.250	<0.250	1	0.000		10



⁹Sc

Laboratory Control Sample (LCS)

(LCS) R3653782-2 05/12/21 16:17

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Ammonia Nitrogen	7.50	7.76	103	90.0-110	

L1345935-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1345935-01 05/12/21 16:20 • (MS) R3653782-3 05/12/21 16:22 • (MSD) R3653782-4 05/12/21 16:24

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits	
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%	
Ammonia Nitrogen	5.00	<0.250	4.56	4.91	91.2	98.1	1	90.0-110			7.29	10	

L1349851-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1349851-01 05/12/21 16:47 • (MS) R3653782-6 05/12/21 16:49

	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits
Analyte	mg/l	mg/l	mg/l	%		%
Ammonia Nitrogen	5.00	0.483	5.36	97.5	1	90.0-110

QUALITY CONTROL SUMMARY

Wet Chemistry by Method 351.2

Method Blank (MB)

(MB) R3654088-1 05/13/21 10:59									
	MB Result	MB Qualifier	MB MDL	MB RDL					
Analyte	mg/l		mg/l	mg/l					
Kjeldahl Nitrogen, TKN	<0.140		0.140	0.250					





Ss

Method Blank (MB)

(МВ) 11303-1333 1	MD D!t
(MB) R3654399-1	05/14/21 09:30

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Kjeldahl Nitrogen, TKN	<0.140		0.140	0.250





L1348424-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1348424-01 05/13/21 11:17 • (DUP) R3654088-3 05/13/21 11:06

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Kjeldahl Nitrogen, TKN	18.9	17.8	1	5.99		20





Sc

L1349443-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1349443-01 05/13/21 13:49 • (DUP) R3654088-5 05/13/21 11:21

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Kjeldahl Nitrogen, TKN	2.00	2.15	1	7.23		20

L1349443-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1349443-01 05/14/21 09:56 • (DUP) R3654399-4 05/14/21 09:57

(,	Original Result			DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Kieldahl Nitrogen, TKN	1.75	2.12	1	19.1		20

QUALITY CONTROL SUMMARY

Wet Chemistry by Method 351.2

L1348424-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1348424-01 05/14/21 10:14 • (DUP) R3654399-6 05/14/21 10:15

,	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Kjeldahl Nitrogen, TKN	18.2	17.0	1	6.82		20







Laboratory Control Sample (LCS)

(LCS) R3654088-2 05/13/21 11:01

(200) 1000 2 00/10/	Spike Amount	LCS R	Result L	LCS Rec.	Rec. Limits
Analyte	mg/l	mg/l	9	%	%
Kjeldahl Nitrogen, TKN	15.2	14.9	9	98.0	75.2-121



Cn



Laboratory Control Sample (LCS)

/LCS/ D265/200 2 05/1//21 00:22

(LC3) K3034399-2 03/14/	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Kjeldahl Nitrogen, TKN	15.2	15.0	98.7	75.2-121	





L1348424-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1348424-01 05/13/21 11:17 • (MS) R3654088-4 05/13/21 11:07

	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Analyte	mg/l	mg/l	mg/l	%		%	
Kjeldahl Nitrogen, TKN	5.00	18.9	22.1	64.0	1	90.0-110	<u>E J6</u>

L1349443-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1349443-01 05/13/21 13:49 • (MS) R3654088-6 05/13/21 11:22 • (MSD) R3654088-7 05/13/21 11:24

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Kjeldahl Nitrogen, TKN	5.00	2.00	7.22	7.10	104	102	1	90.0-110			1.68	20

L1348424-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1348424-01 05/14/21 10:14 • (MS) R3654399-3 05/14/21 09:46

	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Analyte	mg/l	mg/l	mg/l	%		%	
Kjeldahl Nitrogen, TKN	5.00	18.2	21.6	68.0	1	90.0-110	<u>E J6</u>



QUALITY CONTROL SUMMARY

Wet Chemistry by Method 351.2

11349545-01

L1349443-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1349443-01 05/14/21 09:56 • (MS) R3654399-7 05/14/21 10:16 • (MSD) R3654399-5 05/14/21 10:00

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Kieldahl Nitrogen, TKN	5.00	1.75	7.22	6.72	109	99.4	1	90.0-110			7.17	20



















QUALITY CONTROL SUMMARY

L1349545-01

Wet Chemistry by Method 353.2

Method Blank (MB)

(MB) R3652795-1 05	5/10/21 16:55			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Nitrate-Nitrite	<0.0300		0.0300	0.0500







Laboratory Control Sample (LCS)

(LCS) R3652795-2 05/10/21 16:56

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Nitrate-Nitrite	2.50	2.44	97.6	90.0-110	





⁶Qc

L1348257-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1348257-01 05/10/21 17:05 • (MS) R3652795-3 05/10/21 16:58 • (MSD) R3652795-4 05/10/21 16:59

(00, =10.10=0.10				,									
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilutio	n Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits	
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%	
Nitrate-Nitrite	2.50	0.684	3.13	3.13	97.8	97.8	1	90.0-110			0.000	20	





⁹Sc

L1348257-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1348257-02 05/10/21 17:09 • (MS) R3652795-5 05/10/21 17:00 • (MSD) R3652795-6 05/10/21 17:01

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits	
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%	
Nitrate-Nitrite	2.50	0.582	3.01	3.06	97.1	99.1	1	90.0-110			1.65	20	

QUALITY CONTROL SUMMARY

Wet Chemistry by Method 4500Cl G-2011

L1349545-01

Method Blank (MB)

(MB) R3652433-1	05/10/21 11:58			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Chlorine,residual	<0.0260		0.0260	0.100



Ss

L1347551-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1347551-03 05/10/21 11:59 • (DUP) R3652433-3 05/10/21 11:59

	Original Resu	ult DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Chlorine,residual	<0.100	<0.100	1	0.000		20



Laboratory Control Sample (LCS)

(LCS) R3652433-2 05/10/21 11:58

(===,,	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Chlorine,residual	1.00	0.995	99.5	85.0-115	





QUALITY CONTROL SUMMARY

L1349545-01

Wet Chemistry by Method 4500P-E

Method Blank (MB)

(MB) R3654116-1	05/13/21 14:51
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	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Phosphorus, Total	< 0.0152		0.0152	0.0500







Laboratory Control Sample (LCS)

(LCS) R3654116-2	05/13/21 14:51
------------------	----------------

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Phosphorus.Total	0.500	0.495	99.0	80.0-120	





⁶Qc



(OS) L1346472-01 05/13/21 14:51 • (MS) R3654116-3 05/13/21 14:51 • (MSD) R3654116-4 05/13/21 14:51

,	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Phosphorus Total	0.500	< 0.0500	0 471	0.493	94.2	98.5	1	80 0-120			4.56	20





⁹Sc

L1346475-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1346475-01 05/13/21 14:51 • (MS) R3654116-5 05/13/21 14:51 • (MSD) R3654116-6 05/13/21 14:51

, ,	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits	
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%	
Phosphorus, Total	0.500	0.115	0.560	0.582	89.0	93.4	1	80.0-120			3.85	20	

QUALITY CONTROL SUMMARY

Wet Chemistry by Method 5310C

	Metl	hod	Blan	k (MB)
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(MB) R3661964-1 06/01/2	1 15:29				
	MB Result	MB Qualifier	MB MDL	MB RDL	
Analyte	mg/l		mg/l	mg/l	
TOC (Total Organic Carbon)	<0.270		0.270	0.700	







Laboratory Control Sample (LCS)

(LCS) R3661964-2 06/01/21 15:4	(LCS)	R3661964-2	06/01/21 15:44
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	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
TOC (Total Organic Carbon)	10.0	9.99	99.9	90.0-110	









(OS) L1360001-01 06/01/21 16:41 • (MS) R3661964-3 06/01/21 16:04 • (MSD) R3661964-4 06/01/21 16:23

,	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
TOC (Total Organic Carbon)	10.0	4 06	13.8	13.6	97.4	95.6	1	80 0-120			1.31	20







QUALITY CONTROL SUMMARY

Wet Chemistry by Method SM 4500-H+B

L1349545-01

L1347590-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1347590-01 05/11/21 10:34 • (DUP) R3652872-2 05/11/21 10:34

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	su	SU		%		%
рН	6.76	7.16	1	5.75		20



Sample Narrative:

OS: 6.76 at 26.1C DUP: 7.16 at 22.4C



Ss

Laboratory Control Sample (LCS)

(LCS) R3652872-1 05/11/21 10:34

(LC3) R3032872-1 03/11/2	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	su	SU	%	%	
pH	6.00	5.98	99.7	99.0-101	



8 **Δ**I



⁹Sc

Sample Narrative:

LCS: 5.98 at 20.2C

QUALITY CONTROL SUMMARY

L1349545-01

Wet Chemistry by Method SM5210B

Method Blank (MB)

(MB) R3653904-1 05/13/21 07:17									
		MB Result	MB Qualifier	MB MDL	MB RDL				
	Analyte	mg/l		mg/l	mg/l				
	BOD	<2.00		2.00	2.00				

²Tc

3 Ss

Cn

L1349545-01 Original Sample (OS) • Duplicate (DUP)

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
BOD	<2.00	<2.00	1	0		20





Laboratory Control Sample (LCS)

(1 00)	DOCE 2004 2	0 = 40 /04	0700
(LCS)	R3653904-2	05/13/21	07:22

(LCS) R3093904-2 09/13/	Spike Amount	LCS Resul	t LCS Rec.	Rec. Limits
Analyte	mg/l	mg/l	%	%
BOD	198	175	88.5	85-115





QUALITY CONTROL SUMMARY

Mercury by Method 245.1

Method Blank (MB)

(MB) R3660648-1 05/	/28/21 16:15			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Mercury	<0.0000450		0.0000450	0.000200



Laboratory Control Sample (LCS)

(LCS) R3660648-2 05/28/2116:17

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Mercury	0.00250	0.00255	102	85.0-115	



L1349545-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1349545-01 05/28/21 16:24 • (MS) R3660648-3 05/28/21 16:20 • (MSD) R3660648-4 05/28/21 16:22

	,	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Δ	ınalyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
	Mercury	0.00250	<0.000200	0.00261	0.00262	104	105	1	70.0-130			0.382	20









QUALITY CONTROL SUMMARY

Metals (ICP) by Method 200.7

(MB) R3654995-1 05/15/21 13:03

Method Blank (MB)

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Silicon	<0.0771		0.0771	0.200







Laboratory Control Sample (LCS)

(LCS) R3654995-2 05/15/21 13:05

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Silicon	100	0.976	97.6	85 0-115	







(OS) L1349104-15 05/15/21 13:08 • (MS) R3654995-4 05/15/21 13:13 • (MSD) R3654995-5 05/15/21 13:15

	,	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
1	Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
	Silicon	1.00	6.16	7.52	7.53	137	138	1	70.0-130	V	V	0.136	20







L1349545-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1349545-01 05/15/21 13:18 • (MS) R3654995-6 05/15/21 13:21 • (MSD) R3654995-7 05/15/21 13:23

, ,	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits	
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%	
Silicon	1.00	5.94	7.05	6.87	112	93.6	1	70.0-130			2.57	20	

QUALITY CONTROL SUMMARY

L1349545-01

Method Blank (MB)

Metals (ICP) by Method 200.7

(MB) R3661513-1 05	5/28/21 17:10				
	MB Result	MB Qualifier	MB MDL	MB RDL	, and the second se
Analyte	mg/l		mg/l	mg/l	
Aluminum	<0.0353		0.0353	0.500	
Antimony	<0.00242		0.00242	0.0250	
Arsenic	<0.00418		0.00418	0.0200	
Barium	< 0.000490		0.000490	0.0100	
Beryllium	0.000660	<u>J</u>	0.000180	0.00100	
Boron	<0.0186		0.0186	0.100	
Cadmium	0.000383	<u>J</u>	0.000350	0.00500	
Calcium	< 0.0496		0.0496	1.00	
Chromium	< 0.000710		0.000710	0.00700	
Cobalt	0.00101	<u>J</u>	0.000680	0.00250	
Copper	< 0.00364		0.00364	0.0200	ŗ
Iron	<0.0303		0.0303	0.500	
Lead	< 0.00312		0.00312	0.0100	
Magnesium	<0.0434		0.0434	1.00	
Manganese	< 0.00557		0.00557	0.0500	
Nickel	<0.00358		0.00358	0.0100	
Potassium	<0.0939		0.0939	1.00	
Selenium	<0.00500		0.00500	0.0200	
Silver	<0.000990		0.000990	0.00500	
Sodium	<0.178		0.178	1.00	
Strontium	0.000754	<u>J</u>	0.000210	0.00500	
Zinc	<0.0106		0.0106	0.0250	

Laboratory Control Sample (LCS)

(LCS) R3661513-2 05/	/28/21 17:14				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Aluminum	10.0	10.3	103	85.0-115	
Antimony	1.00	1.04	104	85.0-115	
Arsenic	1.00	1.01	101	85.0-115	
Barium	1.00	1.00	100	85.0-115	
Beryllium	1.00	1.02	102	85.0-115	
Boron	1.00	1.01	101	85.0-115	
Cadmium	1.00	1.03	103	85.0-115	
Calcium	10.0	10.2	102	85.0-115	
Chromium	1.00	1.03	103	85.0-115	
Cobalt	1.00	1.06	106	85.0-115	
Copper	1.00	1.03	103	85.0-115	

QUALITY CONTROL SUMMARY

L1349545-01

LCS Qualifier

Metals (ICP) by Method 200.7

Laboratory Control Sample (LCS)

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits
Analyte	mg/l	mg/l	%	%
Iron	10.0	10.3	103	85.0-115
Lead	1.00	1.07	107	85.0-115
Magnesium	10.0	10.3	103	85.0-115
Manganese	1.00	1.02	102	85.0-115
Nickel	1.00	1.05	105	85.0-115
Potassium	10.0	10.3	103	85.0-115
Selenium	1.00	1.03	103	85.0-115
Silver	0.500	0.508	102	85.0-115
Sodium	10.0	10.3	103	85.0-115
Strontium	1.00	1.01	101	85.0-115
Zinc	1.00	1.01	101	85.0-115

















(OS) L1354040-01 05/28/21 17:34 • (MS) R3661513-3 05/28/21 17:18 • (MSD) R3661513-4 05/28/21 17:22

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Aluminum	10.0	<0.500	10.9	10.8	106	105	1	70.0-130			0.461	20
Antimony	1.00	<0.0250	1.07	1.07	107	107	1	70.0-130			0.280	20
Arsenic	1.00	< 0.0200	1.05	1.05	105	105	1	70.0-130			0.666	20
Barium	1.00	0.195	1.22	1.23	103	103	1	70.0-130			0.572	20
Beryllium	1.00	< 0.00100	1.05	1.06	105	106	1	70.0-130			0.946	20
Boron	1.00	<0.100	1.08	1.08	103	103	1	70.0-130			0.000	20
Cadmium	1.00	< 0.00500	1.05	1.06	105	106	1	70.0-130			0.474	20
Calcium	10.0	69.3	78.7	80.1	94.0	107	1	70.0-130			1.66	20
Chromium	1.00	0.0323	1.07	1.09	104	106	1	70.0-130			2.41	20
Cobalt	1.00	< 0.00250	1.06	1.07	106	107	1	70.0-130			1.13	20
Copper	1.00	< 0.0200	1.06	1.06	105	106	1	70.0-130			0.377	20
Iron	10.0	< 0.500	10.5	10.5	105	105	1	70.0-130			0.381	20
Lead	1.00	< 0.0100	1.06	1.06	105	106	1	70.0-130			0.471	20
Magnesium	10.0	<1.00	11.2	11.2	105	106	1	70.0-130			0.715	20
Manganese	1.00	< 0.0500	1.02	1.04	102	104	1	70.0-130			1.65	20
Nickel	1.00	<0.0100	1.05	1.06	105	105	1	70.0-130			0.665	20
Potassium	10.0	18.6	29.0	29.2	104	106	1	70.0-130			0.722	20
Selenium	1.00	<0.0200	1.07	1.07	107	107	1	70.0-130			0.374	20
Silver	0.500	< 0.00500	0.522	0.533	104	107	1	70.0-130			1.99	20
Sodium	10.0	26.5	36.8	37.3	103	108	1	70.0-130			1.40	20
Strontium	1.00	0.737	1.77	1.79	103	105	1	70.0-130			1.12	20
Zinc	1.00	<0.0250	1.01	1.03	101	103	1	70.0-130			1.18	20







Zinc

QUALITY CONTROL SUMMARY

Metals (ICP) by Method 200.7

L1354047-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits	
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%	
Aluminum	10.0	<0.500	10.3	10.5	101	103	1	70.0-130			1.73	20	
Antimony	1.00	<0.0250	1.04	1.04	104	104	1	70.0-130			0.0959	20	
Arsenic	1.00	<0.0200	1.01	1.01	101	101	1	70.0-130			0.0989	20	
Barium	1.00	0.0276	1.03	1.04	100	101	1	70.0-130			0.967	20	
Beryllium	1.00	<0.00100	1.02	1.03	102	103	1	70.0-130			1.07	20	
Boron	1.00	<0.100	1.04	1.05	99.2	100	1	70.0-130			1.06	20	
Cadmium	1.00	<0.00500	1.02	1.02	102	102	1	70.0-130			0.0978	20	
Calcium	10.0	18.2	27.7	28.0	94.3	97.3	1	70.0-130			1.08	20	
Chromium	1.00	<0.00700	1.03	1.03	102	103	1	70.0-130			0.681	20	
Cobalt	1.00	<0.00250	1.06	1.06	106	106	1	70.0-130			0.000	20	
Copper	1.00	<0.0200	1.03	1.04	103	104	1	70.0-130			1.26	20	
ron	10.0	<0.500	10.2	10.4	102	103	1	70.0-130			1.55	20	
Lead	1.00	<0.0100	1.05	1.05	105	105	1	70.0-130			0.0954	20	
Magnesium	10.0	2.13	12.2	12.4	101	103	1	70.0-130			1.54	20	
Manganese	1.00	<0.0500	1.01	1.02	100	101	1	70.0-130			0.989	20	
Nickel	1.00	<0.0100	1.04	1.05	104	105	1	70.0-130			0.287	20	
Potassium	10.0	3.00	13.1	13.2	101	102	1	70.0-130			1.14	20	
Selenium	1.00	<0.0200	1.04	1.04	103	104	1	70.0-130			0.192	20	
Silver	0.500	<0.00500	0.509	0.512	102	102	1	70.0-130			0.647	20	
Sodium	10.0	5.08	15.2	15.4	101	103	1	70.0-130			0.982	20	
Strontium	1.00	0.419	1.42	1.43	99.9	101	1	70.0-130			0.773	20	

102





















1.00

< 0.0250

1.01

1.02

70.0-130

20

0.590

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

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MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
CHAIITIAL	LIASCRIPTION
Qualifici	

	'
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
T8	Sample(s) received past/too close to holding time expiration.
V	The sample concentration is too high to evaluate accurate spike recoveries.

¹Cp



















ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina 1	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
lowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky 1 6	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	Al30792	Tennessee 1 4	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA - ISO 17025 5	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

Pace Analytical Services, LLC -Dallas 400 W. Bethany Drive Suite 190 Allen, TX 75013

Arkansas	88-0647	Kansas	E10388
Florida	E871118	Texas	T104704232-20-32
lowa	408	Oklahoma	8727
Louisiana	30686		

Pace Analytical Services, LLC -Dallas 2657 Gravel Dr Ft. Worth, TX 76118

Texas T104704232-20-32



















¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

^{*} Not all certifications held by the laboratory are applicable to the results reported in the attached report.

^{*} Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.



CHAIN-OF-CUSTODY / Analytical Request Document The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

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ATTACHMENT 10

Accounting Plan and Accounting Plan Summary



CORPORATE OFFICE 9800 Hillwood Pkwy. Suite 250 Fort Worth, Texas, 76177 817.562.3350

ACCOUNTING PLAN Dove Pond (Golf Course Pond)

November 29, 2021

INTRODUCTION

This memorandum describes the accounting plan submitted for Dove Pond (Golf Course Pond). The application authorizes the following:

- Storage of supplemental water in one impoundment with a storage capacity of 21.9 acre-feet and a surface area of 4.80 acres.
- Diversion of 45 acre-feet of supplemental water for the use of irrigation.

The applicant will not be diverting any state waters and will provide supplemental water from private groundwater produced by the applicant to offset evaporation losses and diversion of supplemental water.

The accounting plan assumes that storage in the reservoirs is constant. Change in storage is minimal and can be ignored. Thus, this accounting plan is premised on a fundamental mass balance equation of water inflows and outflows from the impoundment:

Groundwater = Evaporation Losses + Diversion from Irrigation

The applicant has installed meters on the discharges of groundwater and will read those meters daily. The accounting plan will use the 75th percentile evaporation amount for the local area for the period from 1954 through 2020, calculated monthly, as published by the Texas Water Development Board (TWDB).

ELEMENTS OF THE ACCOUNTING PLAN

The accounting plan has been created as an Excel spreadsheet. The spreadsheet includes cells in which the applicant will insert meter readings. The spreadsheet includes other cells that contain the default evaporation rate based on the 75th percentile evaporation amount for the local area for the period from 1954 through 20120, calculated monthly, as published by the Texas Water Development Board. The accounting plan covers one calendar year, and a new Excel document will need to be created for each year.

There are 16 tabs in the accounting plan spreadsheet:

1. ANNUAL Tab – summarizes groundwater discharge volume, evaporative losses, and supplemental groundwater discharges.

- 2. Monthly Tabs (JAN through DEC) the applicant will enter daily readings of groundwater discharge.
- 3. EVAP DATA Tab default evaporation rates.
- 4. TWDB PAN LAKE FACTOR Tab data from the TWDB for Monthly Pan Coefficients.
- 5. TWDB EVAP Tab data from TWDB for monthly lake surface evaporation for Quadrangle 510.

ANNUAL TAB (Updated automatically based on data entered in monthly tabs, no data entry is required by the applicant.)

The ANNUAL tab calculates a mass balance for the impoundment covered by Application 13619. All figures on the ANNUAL tab are populated from the monthly tabs or calculated in the ANNUAL tab, so the applicant will not enter any data into the ANNUAL tab. The exception is in cell B6, where the applicant enters the current year.

The ANNUAL tab contains columns (A through G) and 14 rows. The columns in the table are as follows:

ál.	A	В	C	D	E	F	G
		1911		Dove Pond (G	olf Course Pond)		1
2					unting Record		
3					ıal Tab		
4					AUDEROUDEN		
5			Į.				
6	Year						
7							
8	Month	Diversion Volume (ac-ft)	Groundwater Volume (ac-ft)	Default Evaporation (ac-ft)	Calculated Net Inflow (ac-ft)	Depleted Net Inflow (ac-ft)	Supplemental Groundwater Release (ac-ft)
9	January	0.00	0.00	1.24	1.24	1.24	1.24
10	February	0.00	0.00	1.68	1.68	1.68	1.68
11	March	0.00	0.00	2.48	2.48	2.48	2.48
12	April	0.00	0.00	3.30	3.30	3.30	3.30
13	May	0.00	0.00	3.72	3.72	3.72	3.72
14	June	0.00	0.00	4.50	4.50	4.50	4.50
15	July	0.00	0.00	5.27	5.27	5.27	5.27
16	August	0.00	0.00	4.65	4.65	4.65	4.65
17	September	0.00	0.00	3.60	3.60	3.60	3.60
18	October	0.00	0.00	2.79	2.79	2.79	2.79
19	November	0.00	0.00	1.80	1.80	1.80	1.80
20	December	0.00	0.00	1.24	1.24	1.24	1.24
21	Total	0.00	0.00	36.27	36.27	36.27	36.27
22							

<u>Column A</u> <u>Month.</u> Labels for each month in a separate row. Corresponds to Monthly Tabs (JAN through DEC) within the spreadsheet.

<u>Column B</u> <u>Diversion Volume (ac-ft).</u> Contains the monthly Groundwater Volume in acrefeet (This number comes from Cell B41, which is a conversion of the Sum of Column B "Diversion Volume (gal)" to acre-feet in each Monthly Tab (JAN through DEC). This number will populate automatically once the Monthly Tabs are completed.)

<u>Column C</u> <u>Groundwater Volume (ac-ft).</u> Contains the monthly Groundwater Volume in acre-feet (This number comes from Cell C41, which is a conversion of the Sum of Column B "Groundwater Volume (gal)" to acre-feet in each Monthly Tab (JAN through DEC). This number will populate automatically once the Monthly Tabs are completed.)

Column D

Default Evaporation (ac-ft). Contains the monthly evaporation imported from the respective monthly worksheet (This number comes from Cell D41, which is a conversion of the Sum of Column E "Default Evaporation (gal)" to acre-feet in each Monthly tab (JAN through DEC). This number will populate automatically once the Monthly Tabs are completed.)

Column E

Calculated Net Inflow (ac-ft). Contains the monthly calculated net inflows in acre-feet. (This number comes from Cell E41, which is a conversion of the Sum of Column F "Calculated Net Inflow (gal)" to acre-feet in each Monthly Tab (JAN to DEC). This number will populate automatically once the Monthly Tabs are completed).

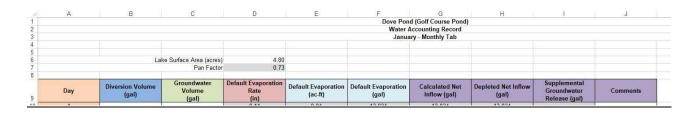
Column F

Depleted Net Inflow (ac-ft). Contains the monthly depleted net inflows in acrefeet. (This number comes from Cell H41, which is a conversion of the Sum of Column G "Depleted Net Inflow (gal)" to acre-feet in each Monthly Tab (JAN to DEC). This number will populate automatically once the Monthly Tabs are completed).

Supplemental Groundwater Release (ac-ft). Contains the monthly supplemental groundwater release in acre-feet. (This number comes from Cell I41, which is a conversion of the Sum of Column H "Supplemental Groundwater Release (gal)" to acre-feet in each Monthly Tab (JAN to DEC). This number will populate automatically once the Monthly Tabs are completed).

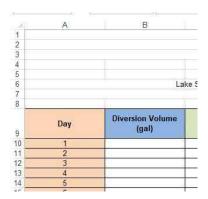
MONTHLY TABS (Updated monthly by applicant)

The accounting plan includes 12 monthly spreadsheets, labeled JAN through DEC. Each worksheet contains nine columns (A through I), but the number of rows varies between 28 and 31 based on the number of days in the month. The applicant will enter daily the groundwater volume in gallons into Column B "Groundwater Volume (gal). All other cells will be filled automatically based on those entries.



<u>Column A</u> <u>Day.</u> Lists the day of the month. **No data entry is required by the applicant.**

<u>Column B</u> <u>Diversion Volume (gal).</u> Cells for the applicant to enter daily meter readings from the irrigation diversion pump meter. Irrigation diversion pump meter records used in gallons. **Applicant to read the meter and enter the amount of water (in gallons) pumped out of pond daily.**



<u>Column C</u> <u>Groundwater Volume (gal).</u> Cells for the applicant to enter daily meter readings from the water well meter. Water well meter records used in gallons. **Applicant to read the meter and enter the amount of water (in gallons) discharged into pond daily.**

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9	Day	Diversion Volume (gal)	Groundwater Volume (gal)
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1	2		

<u>Column D</u> <u>Default Evaporation Rate (in)</u>. This column displays the 75th percentile daily pan rate from Column D "Daily Pan Rate (in)" of the EVAP DATA Worksheet. **No data entry is required by the applicant.**

<u>Column E</u>
<u>Default Evaporation (ac-ft).</u> Calculated Default Evaporation obtained by converting the Default Evaporation Rate in Column D to feet and multiplying it by the total surface area of the lake in cell D6 (Column D "Default Evaporation Rate (in) divided by 12, to convert to feet, multiplied by D6 Lake Surface Area (acres). **No data entry is required by the applicant.**

<u>Column F</u> <u>Default Evaporation (gal).</u> Calculated Default Evaporation in gallons obtained by converting the Column F Default Evaporation (ac-ft) multiplied by 325851 gallons per acre-foot. **No data entry is required by the applicant.**

Column G

Calculated Net Inflow (gal). The calculated net inflow is determined by subtracting the diversion volume (Column B) from groundwater inflow to the lake (Column C) and then subtracting the sum from the default evaporation (Column F). If the calculated net inflow is negative, then there is more inflow into the impoundment than can be held, and this amount flows downstream. (Column F "Default Evaporation (gal)" minus Column C "Groundwater Volume (gal) – Column B "Diversion Volume (gal).") No data entry is required by the applicant.

<u>Column H</u>
<u>Depleted Net Inflow (gal).</u> The depleted net inflow is the positive calculated net inflow from Column G. If the "Calculated Net Inflow" is less than zero, this value is equal to zero. The depleted net inflow represents the amount needed to be made up through supplemental groundwater pumping. (The largest value of Column G "Calculated Net Inflow (gal).") **No data entry is required by the applicant.**

<u>Supplemental Groundwater Release (gal).</u> The supplemental groundwater release (gal) (Column I) is the sum of the depleted net inflow (gal) (Column H). The applicant should review these numbers biweekly in December, January, and February (i.e., winter months) when evapotranspiration rates are typically low. For

the remainder of the year (i.e., spring and summer months), the applicant should review these numbers on a weekly basis when evapotranspiration rates typically are higher. Equations to sum the amount of supplemental groundwater released on a biweekly/weekly basis are included in the appropriate locations in the Monthly Tabs. Reviewing on a biweekly/weekly basis will give the applicant the opportunity to determine if an adequate amount of groundwater is being discharged, and if not, supplemental groundwater volumes can be provided into the system to meet the requirement of the permit.

If a positive number is present in the supplemental groundwater release (gal) (Column IH), then the applicant needs to increase the volume of groundwater on future releases that month to reduce the values in Column H to zero. Discharges of supplemental groundwater volumes should be recorded in Column B, and a note with the amount would be included in Comments (Column J). Applicant to review supplemental groundwater number. Record a supplemental groundwater discharges and enter the amount of water (in gallons) discharged into the pond in Column C. Supplemental groundwater discharges to be combined with normal groundwater volume discharges.



<u>Column J</u> <u>Comments.</u> This Column allows the applicant to enter any relevant notes and observations. **Applicant to enter comments daily.**

	A	В	С	D	E	F	G	Н	1	J
							d (Golf Course Pond			
							ccounting Record			
						Janua	ry - Monthly Tab			
		1.1								
		Lak	e Surface Area (acre							
			Pan Fact	or 0.73						
	Day	Diversion Volume (gal)	Groundwater Volume (gal)	Default Evaporation Rate (in)	Default Evaporation (ac-ft)	Default Evaporation (gal)	Calculated Net Inflow (gal)	Depleted Net Inflow (gal)	Supplemental Groundwater Release (gal)	Comments
	1			0.11	0.04	13,034	13,034	13,034		
	2			0.11	0.04	13,034	13,034	13,034		
	3			0.11	0.04	13,034	13,034	13,034		
	4			0.11	0.04	13,034	13,034	13,034		
	5	Time to the second		0.11	0.04	13,034	13,034	13,034		
Ī	6	3		0.11	0.04	13,034	13,034	13,034	\ \	
Ī	7			0.11	0.04	13,034	13,034	13,034		
Ī	8			0.11	0.04	13,034	13,034	13,034		
Ī	9			0.11	0.04	13,034	13,034	13,034),	
	10	1		0.11	0.04	13,034	13,034	13,034		
	11	Y Y		0.11	0.04	13,034	13,034	13,034		
Ī	12	8		0.11	0.04	13,034	13,034	13,034	*	
Ī	13	3		0.11	0.04	13,034	13,034	13,034	**************************************	
Ī	14	A .		0.11	0.04	13,034	13,034	13,034	182,476	
Ī	15	1		0.11	0.04	13,034	13,034	13,034		
	16			0.11	0.04	13,034	13,034	13,034		
Ī	17			0.11	0.04	13,034	13,034	13,034	ï	
	18	7		0.11	0.04	13,034	13,034	13,034	i i	
	19	7		0.11	0.04	13,034	13,034	13,034	9	
	20			0.11	0.04	13,034	13,034	13,034		
	21			0.11	0.04	13,034	13,034	13,034	,	
	22			0.11	0.04	13,034	13,034	13,034	1	
	23			0.11	0.04	13,034	13,034	13,034		
	24	T T		0.11	0.04	13,034	13,034	13,034		
	25	T .		0.11	0.04	13,034	13,034	13,034	i i	
	26	A 3		0.11	0.04	13,034	13,034	13,034	*	
	27	J.		0.11	0.04	13,034	13,034	13,034		
	28			0.11	0.04	13,034	13,034	13,034	182,476	
	29			0.11	0.04	13,034	13,034	13,034		
	30	i i		0.11	0.04	13,034	13,034	13,034		
	31	*		0.11	0.04	13,034	13,034	13,034	39,102	
	Total (ac-ft)	0.00	0.00	1.36	1.24	1.24	1.24	1.24	1.24	
ī	Total (gal)	0	0	444 461	404.055	404,054	404.054	404,054	404,054	

EVAP DATA TAB (There are no adjustments to be made to this tab by the applicant)

The EVAP DATA worksheet contains default data. The worksheet includes five columns, all of which have been populated with data. The applicant will not enter any data in the EVAP DATA worksheet. **There are no adjustments to be made to this tab by the applicant.**

4		В	C	D	E
1			Dove Pond (Go	If Course Pond)	
2			Water Accou	nting Record	
3			Evap Da	ata Tab	
4				Sec 191 11 12 12	
5	Month	Days in Month	TWDB 75th Percentile Monthly Rate (in)	Daily Pan Rate (in)	Pan Factor
6	January	31	2.48	0.11	0.73
7	February	28	2.95	0.15	0.70
8	March	31	4.53	0.21	0.69
9	April	30	5.40	0.27	0.67
10	May	31	5.39	0.29	0.60
11	June	30	7.38	0.37	0.67
12	July	31	9.04	0.42	0.69
13	August	31	8.35	0.38	0.70
14	September	30	6.57	0.30	0.73
15	October	31	5.14	0.22	0.77
16	November	30	3.52	0.15	0.80
17	December	31	2.74	0.11	0.77
18					

Column A Month. Lists each month.

<u>Column B</u> <u>Days in Month</u>. Lists the days in each month. End-user to modify as needed to accommodate for leap year.

Column C TWDB 75th Percentile Monthly Rate (in). Lists the 75th percentile evaporation rate for each month, expressed in inches. This column's data was obtained from the precipitation and lake evaporation database published by the Texas Water Development Board (Row 78 "75th Percentile" of TWDB EVAP Tab within the spreadsheet) (TWDB, Lake Evaporation and Precipitation Data, Quadrant 510, https://waterdatafortexas.org/lake-evaporation-rainfall).

<u>Column D</u> <u>Daily Pan Rate (in).</u> Expresses the evaporation rate as a daily rate from an evaporation pan, calculated by dividing the monthly rate in Column C by the number of days in the month and then dividing the result by the monthly pan

factors (Column C "TWDB 75th Percentile monthly Rate (in) divided by Column B "Days in Month" divided by Column E "Pan Factor." These daily rates will be used as the default evaporation rate.

<u>Column E</u> <u>Pan Factor.</u> The TWDB pan factor for this area (Row 75 "Quad 510" of TWDB Pan Lake Factor) tab within the spreadsheet.

TWDB PAN LAKE FACTOR TAB (There are no adjustments to be made to this tab by the applicant) The TWDB PAN LAKE FACTOR worksheet contains the Texas Water Development Board pan factors for Texas (TWDB, Lake Evaporation and Precipitation Data, Pan-to-Lake- Coefficients, Quad 510 Monthly Pan factors, https://waterdatafortexas.org/lake-evaporation-rainfall).

d	Α	В	С	D	E	F	G	Н	1	J	K	L	M	N	0
l.					ourse Pon	d)									
}				Accounting		3									
	TWDB L	21.	IWDB	Pan Lake	Factor Tal)									
				and the transfer		Court East									
	nttps://	waterdat	afortexas.	org/lake-e	vaporation	i-raintaii									
						****	- W-4 D	LINUT COLUMN							
								evelopme							
)	Quad	lan	Feb	Mar	Ann			actor Used Jul		500	Oct	Nov	Dec	Ann	
1	410	Jan 0.73	0.7	0.69	Apr 0.67	May 0.6	Jun 0.67	0.69	Aug 0.7	Sep 0.73	0.77	0.8	0.77	0.7	
			1817		10000	(414)		10.000	1.017			1,0,000	120.000		
2	411	0.74	0.71	0.7	0.68	0.61	0.68	0.7	0.71	0.74	0.78	0.81	0.78	0.71	
3	412	0.75	0.72	0.71	0.69	0.62	0.69	0.71	0.72	0.75	0.79	0.82	0.79	0.72	
	413	0.76	0.73	0.72	0.71	0.65	0.71	0.72	0.73	0.76	0.79	0.81	0.79	0.73	
5	414	0.77	0.74	0.73	0.72	0.66	0.72	0.73	0.74	0.77	0.8	0.82	0.8	0.74	
6	501	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68	
7	502	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68	
8	503	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67	
9	504	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67	
0	505	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67	
1	506	0.71	0.68	0.68	0.65	0.58	0.65	0.67	0.68	0.71	0.75	0.78	0.75	0.68	
2	507	0.72	0.69	0.68	0.65	0.57	0.65	0.68	0.69	0.72	0.77	0.81	0.77	0.69	
3	508	0.72	0.69	0.68	0.65	0.57	0.65	0.68	0.69	0.72	0.77	0.81	0.77	0.69	
4	509	0.73	0.7	0.69	0.67	0.6	0.67	0.69	0.7	0.73	0.77	0.8	0.77	0.7	
5	510	0.73	0.7	0.69	0.67	0.6	0.67	0.69	0.7	0.73	0.77	0.8	0.77	0.7	
6	511	0.74	0.71	0.7	0.68	0.61	0.68	0.7	0.71	0.74	0.78	0.81	0.78	0.71	

TWDB EVAP TAB (There are no adjustments to be made to this tab by the applicant)

The TWDB EVAP worksheet contains the Texas Water Development Board monthly lake surface evaporation rates for Quadrangle 510 from 1954 to 2020 (TWDB, Lake Evaporation and Precipitation Data, Quadrant 510, https://waterdatafortexas.org/lake-evaporation-rainfall).

Row 78 75th Percentile. Calculates the 75th percentile evaporation rate for each month from 1954 to 2020.

65	510	2009	2.51	3.59	4.44	5.04	4.42	6.96	7.54	7.85	4.46	3.46	2.97	2.21	55.45
6	510	2010	1.98	1.83	3.77	4.54	5.15	6.20	5.91	6.87	5.00	5.12	3.26	2.75	52.38
67	510	2011	2.04	2.33	4.66	6.29	5.64	9.04	10.21	10.77	7.74	5.15	3.51	1.99	69.37
68	510	2012	2.84	2.55	3.08	4.36	5.95	6.77	7.98	7.93	6.15	4.68	4.28	3.45	60.02
59	510	2013	3.04	3.21	5.09	4.92	5.08	7.32	7.89	8.08	6.39	4.27	3.18	1.97	60.66
70	510	2014	2.43	2.48	3.87	5.74	5.77	6.78	7.15	7.62	5.75	5.37	3.43	1.94	58.60
71	510	2015	2.43	2.49	3.48	4.39	4.06	6.53	8.22	7.37	6.11	5.39	3.52	2.66	56.46
72	510	2016	2.17	3.37	4.09	4.12	3.69	6.03	7.69	4.07	5.17	4.63	3.30	2.83	51.01
73	510	2017	2.96	3.51	3.97	4.44	5.06	6.06	9.05	6.22	4.92	4.97	3.05	2.30	56.63
74	510	2018	2.11	2.39	4.00	4.40	5.39	7.48	7.65	7.72	4.04	3.67	1.88	1.81	53.16
75	510	2019	1.76	1.75	2.98	2.69	2.78	3.65	5.97	6.96	5.90	4.58	2.30	2.21	43.18
76	510	2020	1.71	2.43	2.67	3.64	4.7	6.11	6.05	7.75	3.7	4.17	2.88	1.92	47.94
77															
78	75th Percer	ntile:	2.48	2.95	4.53	5.40	5.39	7.38	9.04	8.35	6.57	5.14	3.52	2.74	60.22
79															
80															

Dove Pond (Golf Course Pond) Water Accounting Record Annual Tab

Year	

Month	Diversion Volume (ac-ft)	Groundwater Volume (ac-ft)	Default Evaporation (ac-ft)	Calculated Net Inflow (ac-ft)	Depleted Net Inflow (ac-ft)	Supplemental Groundwater Release (ac-ft)
January	0.00	0.00	1.24	1.24	1.24	1.24
February	0.00	0.00	1.68	1.68	1.68	1.68
March	0.00	0.00	2.48	2.48	2.48	2.48
April	0.00	0.00	3.30	3.30	3.30	3.30
May	0.00	0.00	3.72	3.72	3.72	3.72
June	0.00	0.00	4.50	4.50	4.50	4.50
July	0.00	0.00	5.27	5.27	5.27	5.27
August	0.00	0.00	4.65	4.65	4.65	4.65
September	0.00	0.00	3.60	3.60	3.60	3.60
October	0.00	0.00	2.79	2.79	2.79	2.79
November	0.00	0.00	1.80	1.80	1.80	1.80
December	0.00	0.00	1.24	1.24	1.24	1.24
Total	0.00	0.00	36.27	36.27	36.27	36.27

	А	В	С	D	E	F	G	Н	l l	J	К	L
1							d (Golf Course Pond)					_
2							Accounting Record					
2 3 4 5 6						Janu	ary - Monthly Tab					
4											C:	
5			-l Cf A ()	4.80							Signed: Date:	
7		Lè	ake Surface Area (acres) Pan Factor								Date:	
8			FallFactor	0.73								
-				Default Evaporation					Supplemental		1	
	Day	Diversion Volume	Groundwater Volume	Rate	Default Evaporation		Calculated Net Inflow	Depleted Net Inflow	Groundwater Release	Comments		
9	Duy	(gal)	(gal)	(in)	(ac-ft)	(gal)	(gal)	(gal)	(gal)	Comments		
10	1			0.11	0.04	13,034	13,034	13,034	(yui)			
11	2			0.11	0.04	13,034	13,034	13,034			1	
12	3			0.11	0.04	13,034	13,034	13,034			1	
13	4			0.11	0.04	13,034	13,034	13,034				
14	5			0.11	0.04	13,034	13,034	13,034				
15	6			0.11	0.04	13,034	13,034	13,034				
16	7			0.11	0.04	13,034	13,034	13,034				
17	8			0.11	0.04	13,034	13,034	13,034				
18	9			0.11	0.04	13,034	13,034	13,034				
19	10			0.11	0.04	13,034	13,034	13,034			1	
20	11			0.11	0.04	13,034	13,034	13,034			1	
21	12			0.11	0.04	13,034	13,034	13,034			1	
22	13			0.11	0.04	13,034	13,034	13,034			4	
23	14			0.11	0.04	13,034	13,034	13,034	182,476		-	
24	15			0.11 0.11	0.04 0.04	13,034 13.034	13,034 13.034	13,034 13.034			4	
25 26	16 17			0.11	0.04	13,034	13,034	13,034			-	
27	18			0.11	0.04	13,034	13,034	13,034			+	
28	19			0.11	0.04	13,034	13,034	13,034			+	
29	20			0.11	0.04	13,034	13,034	13,034			1	
30	21			0.11	0.04	13,034	13,034	13,034			1	
31	22			0.11	0.04	13,034	13,034	13,034			1	
32	23			0.11	0.04	13,034	13,034	13,034			1	
33	24			0.11	0.04	13.034	13.034	13.034			1	
34	25			0.11	0.04	13,034	13,034	13,034				
35	26			0.11	0.04	13,034	13,034	13,034				
36	27			0.11	0.04	13,034	13,034	13,034				
37	28			0.11	0.04	13,034	13,034	13,034	182,476			
38	29			0.11	0.04	13,034	13,034	13,034				
39	30			0.11	0.04	13,034	13,034	13,034		The state of the s		
40	31			0.11	0.04	13,034	13,034	13,034	39,102			
41	Total (ac-ft)	0.00	0.00	1.36	1.24	1.24	1.24	1.24	1.24		1	
42	Total (gal)	0	0	444,461	404,055	404,054	404,054	404,054	404,054			

П	Α	В	С	D	E	F	G	Н	ı	J
1							nd (Golf Course Pond)			
2							Accounting Record			
3						Febru	uary - Monthly Tab			
4										
5 6		1.	-l Of A ()	4.00						
7		Lâ	ake Surface Area (acres) Pan Factor	4.80 0.70						
8			Pan Factor	0.70						
Ů				Default Evaporation					Supplemental	
	Day	Diversion Volume	Groundwater Volume	Rate	Default Evaporation	Default Evaporation	Calculated Net Inflow	Depleted Net Inflow	Groundwater Release	Comments
	Day	(gal)	(gal)	(in)	(ac-ft)	(gal)	(gal)	(gal)	(gal)	Comments
9	1			0.15	0.06	19,551	19,551	19,551	(gai)	
11	2			0.15	0.06	19,551	19,551	19,551		
12	3			0.15	0.06	19,551	19,551	19,551		
13	4			0.15	0.06	19,551	19,551	19,551		
14	5			0.15	0.06	19,551	19,551	19,551		
15	6			0.15	0.06	19,551	19,551	19,551		
16	7			0.15	0.06	19,551	19,551	19,551		
17	8			0.15	0.06	19,551	19,551	19,551		
18	9			0.15	0.06	19,551	19,551	19.551		
19	10			0.15	0.06	19,551	19,551	19,551		
20	11			0.15	0.06	19,551	19,551	19,551		
21	12			0.15	0.06	19,551	19,551	19,551		
22	13			0.15	0.06	19,551	19,551	19,551		
23	14			0.15	0.06	19,551	19,551	19,551	273,714	
24	15			0.15	0.06	19,551	19,551	19,551		
25	16			0.15	0.06	19,551	19,551	19,551		
26	17			0.15	0.06	19,551	19,551	19,551		
27	18			0.15	0.06	19,551	19,551	19,551		
28	19			0.15	0.06	19,551	19,551	19,551		
29	20			0.15	0.06	19,551	19,551	19,551		
30	21			0.15	0.06	19,551	19,551	19,551		
31	22			0.15	0.06	19,551	19,551	19,551		
32	23			0.15	0.06	19,551	19,551	19,551		
33	24			0.15	0.06	19,551	19,551	19,551		
34	25			0.15	0.06	19,551	19,551	19,551		
35	26			0.15	0.06	19,551	19,551	19,551		
36	27			0.15	0.06	19,551	19,551	19,551		
37	28			0.15	0.06	19,551	19,551	19,551	273,714	

П	A	В	С	D	E	F	G	Н	1	J	К	L
1							nd (Golf Course Pond)					
2 3 4 5 6 7						Water	Accounting Record					
3						Mar	ch - Monthly Tab					
4												
5		1.	-l Cf A ()	4.00							Signed: Date:	
5		La	ake Surface Area (acres) Pan Factor								Date: _	
8			Pan Factor	0.09								
0				D.C. # E					0		1	
	Day	Diversion Volume	Groundwater Volume	Default Evaporation	Default Evaporation	Default Evaporation	Calculated Net Inflow	Depleted Net Inflow	Supplemental Groundwater Release	Comments		
	Day	(gal)	(gal)	Rate (in)	(ac-ft)	(gal)	(gal)	(gal)	(gal)	Comments		
10	4			0.21	0.08	26,068	26,068	26,068	(gai)			
11	2			0.21	0.08	26,068	26,068	26,068				
12	3		 	0.21	0.08	26,068	26,068	26,068				
13	4			0.21	0.08	26,068	26,068	26,068				
14	5			0.21	0.08	26,068	26,068	26,068				
15	6			0.21	0.08	26,068	26,068	26,068				
16	7			0.21	0.08	26,068	26,068	26,068	182,476			
17	8			0.21	0.08	26,068	26,068	26,068	102,110			
18	9			0.21	0.08	26,068	26,068	26,068				
19	10			0.21	0.08	26,068	26,068	26,068				
20	11			0.21	0.08	26,068	26,068	26,068				
21	12			0.21	0.08	26,068	26,068	26,068				
22	13			0.21	0.08	26,068	26,068	26,068				
23	14			0.21	0.08	26,068	26,068	26,068	182,476			
24	15			0.21	0.08	26,068	26,068	26,068				
25	16			0.21	0.08	26,068	26,068	26,068				
26	17			0.21 0.21	0.08	26,068	26,068	26,068				
27	18 19					26,068	26,068	26,068				
28	20			0.21 0.21	0.08	26,068 26,068	26,068 26,068	26,068 26,068				
30	21			0.21	0.08	26,068	26,068	26,068	182.476			
31	22			0.21	0.08	26,068	26,068	26,068	102,470			
32	23			0.21	0.08	26,068	26,068	26,068				
33	24			0.21	0.08	26,068	26,068	26,068				
34	25			0.21	0.08	26,068	26,068	26,068				
35	26			0.21	0.08	26,068	26,068	26,068			1	
36	27			0.21	0.08	26,068	26,068	26,068				
37	28			0.21	0.08	26,068	26,068	26,068	182,476			
38	29			0.21	0.08	26,068	26,068	26,068				
39	30			0.21	0.08	26,068	26,068	26,068				
40	31			0.21	0.08	26,068	26,068	26,068	78,204			
41	Total (ac-ft)	0.00	0.00	2.60	2.48	2.48	2.48	2.48	2.48			
42	Total (gal)	0	0	848,516	808,110	808,108	808,108	808,108	808,108			

П	Α	В	С	D	E	F	G	Н	1 1	J	К	L
1							nd (Golf Course Pond)				•	
2 3 4 5						Water	Accounting Record					
3						Apı	ril - Monthly Tab					
4												
5				4.00							Signed:	
6 7		La	ake Surface Area (acres) Pan Factor								Date:	
8			Pan Factor	0.67								
٥												
		Diversion Volume	Groundwater Volume	Default Evaporation	Default Evaporation	Default Evaporation	Calculated Net Inflow	Depleted Net Inflow	Supplemental			
	Day	(gal)	(gal)	Rate	(ac-ft)	(gal)	(gal)	(gal)	Groundwater Release	Comments		
9			1= 1	(in)					(gal)			
10	1			0.27 0.27	0.11	35,844 35.844	35,844 35,844	35,844 35,844				
12	2 3			0.27	0.11 0.11	35,844 35,844	35,844 35,844	35,844 35,844				
13	4			0.27	0.11	35,844 35,844	35,844 35,844	35,844 35,844				
14	5			0.27	0.11	35,844	35,844	35,844				
15	6			0.27	0.11	35,844	35,844	35,844				
16	7			0.27	0.11	35,844	35,844	35,844	250,908			
17	8			0.27	0.11	35,844	35,844	35,844	200,000			
18	9			0.27	0.11	35,844	35,844	35,844				
19	10			0.27	0.11	35,844	35,844	35,844				
20	11			0.27	0.11	35,844	35,844	35,844				
21	12			0.27	0.11	35,844	35,844	35,844				
22	13			0.27	0.11	35,844	35,844	35,844				
23	14			0.27	0.11	35,844	35,844	35,844	250,908			
24	15			0.27	0.11	35,844	35,844	35,844				
25	16			0.27	0.11	35,844	35,844	35,844				
26	17			0.27	0.11	35,844	35,844	35,844				
27	18			0.27	0.11	35,844	35,844	35,844				
28	19			0.27	0.11	35,844	35,844	35,844				
29 30	20			0.27	0.11	35,844	35,844	35,844	250,000			
31	21			0.27 0.27	0.11 0.11	35,844 35,844	35,844 35,844	35,844 35,844	250,908			
32	22 23			0.27	0.11	35,844 35,844	35,844 35,844	35,844 35,844				
33	24			0.27	0.11	35,844	35,844	35,844				
34	25			0.27	0.11	35,844	35,844	35,844				
35	26			0.27	0.11	35,844	35,844	35,844				
36	27			0.27	0.11	35,844	35,844	35,844				
37	28			0.27	0.11	35,844	35,844	35,844	250,908			
38	29			0.27	0.11	35,844	35,844	35,844	,			
39	30			0.27	0.11	35,844	35,844	35,844	71,688			
40												
41	Total (ac-ft)	0.00	0.00	3.24	3.30	3.30	3.30	3.30	3.30			
42	Total (gal)	0	0	1,055,757	1,075,308	1,075,320	1,075,320	1,075,320	1,075,320			

П	A	В	С	D	Е	F	G	Н	ı	J	К	L
1							nd (Golf Course Pond)					
2 3 4 5 6 7							Accounting Record y - Monthly Tab					
4						IVIA	y - Wontniy Tab					
5											Signed:	
6		La	ake Surface Area (acres)	4.80							Date:	
7			Pan Factor	0.60								
8												
		Diversion Volume	Groundwater Volume	Default Evaporation	Default Evaporation	Default Evaporation	Calculated Net Inflow	Depleted Net Inflow	Supplemental			
	Day	(gal)	(gal)	Rate	(ac-ft)	(gal)	(gal)	(gal)	Groundwater Release	Comments		
9		(94.)	(94.)	(in)	` '				(gal)			
10	1			0.29	0.12	39,102	39,102	39,102			4	
11 12	2			0.29 0.29	0.12 0.12	39,102 39.102	39,102 39.102	39,102 39,102				
13	4		1	0.29	0.12	39,102 39,102	39,102	39,102 39.102			1	
14	5			0.29	0.12	39,102	39,102	39,102				
15	6			0.29	0.12	39,102	39,102	39,102			1	
16	7			0.29	0.12	39,102	39,102	39,102	273,714		1	
17	8			0.29	0.12	39,102	39,102	39,102				
18	9			0.29	0.12	39,102	39,102	39,102				
19	10			0.29	0.12	39,102	39,102	39,102				
20	11			0.29	0.12	39,102	39,102	39,102			4	
21	12			0.29	0.12	39,102	39,102	39,102				
22	13 14			0.29 0.29	0.12 0.12	39,102 39.102	39,102 39,102	39,102 39,102	273.714		-	
24	15			0.29	0.12	39,102	39,102	39,102	2/3,/14		+	
25	16			0.29	0.12	39,102	39,102	39,102				
26	17			0.29	0.12	39,102	39,102	39,102			1	
27	18			0.29	0.12	39,102	39,102	39,102				
28	19			0.29	0.12	39,102	39,102	39,102				
29	20			0.29	0.12	39,102	39,102	39,102				
30	21			0.29	0.12	39,102	39,102	39,102	273,714		4	
31	22			0.29 0.29	0.12 0.12	39,102	39,102	39,102			4	
32	23 24			0.29	0.12	39,102 39,102	39,102 39,102	39,102 39,102			4	
34	25			0.29	0.12	39,102	39,102	39,102			1	
35	26		†	0.29	0.12	39,102	39,102	39,102			1	
36	27			0.29	0.12	39,102	39,102	39,102			1	
37	28			0.29	0.12	39,102	39,102	39,102	273,714		1	
38	29			0.29	0.12	39,102	39,102	39,102				
39	30			0.29	0.12	39,102	39,102	39,102			1	
40	31			0.29	0.12	39,102	39,102	39,102	117,306			
41	Total (ac-ft)	0.00	0.00	3.60	3.72	3.72	3.72	3.72	3.72		4	
42	Total (gal)	0	0	1,171,760	1,212,166	1,212,162	1,212,162	1,212,162	1,212,162		I	

П	Α	В	С	D	Е	F	G	Н	1	J	К	L
1						Dove Por	nd (Golf Course Pond)					
2 3 4 5						Water	Accounting Record ne - Monthly Tab					
4						Jui	ie - Wontiny Tab					
5											Signed:	
6		La	ake Surface Area (acres)	4.80							Date:	
7			Pan Factor	0.67								
8												
1 1		Diversion Volume	Groundwater Volume	Default Evaporation	Default Evaporation	Default Evaporation	Calculated Net Inflow	Depleted Net Inflow	Supplemental			
1.1	Day	(gal)	(gal)	Rate	(ac-ft)	(gal)	(gal)	(gal)	Groundwater Release	Comments		
9				(in)	0.45				(gal)		4	
10	1 2			0.37 0.37	0.15 0.15	48,878 48.878	48,878 48,878	48,878 48,878				
12	3			0.37	0.15	48,878	48,878	48,878			+	
13	4			0.37	0.15	48,878	48,878	48,878			†	
14	5			0.37	0.15	48,878	48,878	48,878			1	
15	6			0.37	0.15	48,878	48,878	48,878				
16	7			0.37	0.15	48,878	48,878	48,878	342,146			
17	8			0.37	0.15	48,878	48,878	48,878				
18	9			0.37	0.15	48,878	48,878	48,878				
19	10			0.37	0.15	48,878	48,878	48,878				
20	11 12			0.37 0.37	0.15 0.15	48,878 48.878	48,878 48,878	48,878 48,878			_	
22	13			0.37	0.15	48,878	48,878	48,878				
23	14			0.37	0.15	48,878	48,878	48,878	342.146			
24	15			0.37	0.15	48,878	48,878	48,878	042,140			
25	16			0.37	0.15	48,878	48,878	48,878				
26	17			0.37	0.15	48,878	48,878	48,878				
27	18			0.37	0.15	48,878	48,878	48,878				
28	19			0.37	0.15	48,878	48,878	48,878				
29	20			0.37	0.15	48,878	48,878	48,878			1	
30 31	21			0.37	0.15 0.15	48,878	48,878	48,878	342,146		1	
31	22 23			0.37 0.37	0.15 0.15	48,878 48.878	48,878 48,878	48,878 48,878			4	
33	24			0.37	0.15	48,878	48,878	48,878			+	
34	25			0.37	0.15	48,878	48,878	48,878			1	
35	26			0.37	0.15	48,878	48,878	48,878			†	
36	27			0.37	0.15	48,878	48,878	48,878				
37	28			0.37	0.15	48,878	48,878	48,878	342,146			
38	29			0.37	0.15	48,878	48,878	48,878			_	
39	30			0.37	0.15	48,878	48,878	48,878	97,756			
40	T-(-1/ 60)	2.00	0.00	4.44	4.50	4.50	4.50	4.50	4.50			
41	Total (ac-ft)	0.00	0.00	4.44	4.50 1.466.330	4.50	4.50	4.50	4.50 1.466.340		4	
42	Total (gal)	0	0	1,446,778	1,466,330	1,466,340	1,466,340	1,466,340	1,466,340			

П	Α	В	С	D	E	F	G	Н	ı	J	К	L
1		•	•				nd (Golf Course Pond)		•			
2 3 4 5 6 7						Water	Accounting Record					
3						Ju	ly - Monthly Tab					
4												
5			-l C A ()	4.00							Signed:	
7		La	ake Surface Area (acres) Pan Factor								Date:	
-/ 			Pan Factor	0.09								
0				D.C. # E					0		П	
	Day	Diversion Volume	Groundwater Volume	Default Evaporation Rate	Default Evaporation	Default Evaporation	Calculated Net Inflow	Depleted Net Inflow	Supplemental Groundwater Release	Comments		
	Day	(gal)	(gal)	(in)	(ac-ft)	(gal)	(gal)	(gal)		Comments		
9	1			0.42	0.17	55,395	55,395	55,395	(gal)		4	
10	2			0.42	0.17	55,395	55,395	55,395			+	
12	3			0.42	0.17	55,395	55,395	55,395			+	
13	4			0.42	0.17	55,395	55,395	55,395			†	
14	5			0.42	0.17	55,395	55,395	55,395			7	
15	6			0.42	0.17	55,395	55,395	55,395			7	
16	7			0.42	0.17	55,395	55,395	55,395	387,765		7	
17	8			0.42	0.17	55,395	55,395	55,395				
18	9			0.42	0.17	55,395	55,395	55,395				
19	10			0.42	0.17	55,395	55,395	55,395				
20	11			0.42	0.17	55,395	55,395	55,395			_	
21	12			0.42	0.17	55,395	55,395	55,395			_	
22	13			0.42	0.17	55,395	55,395	55,395			4	
23	14			0.42 0.42	0.17 0.17	55,395 55,395	55,395 55,395	55,395 55,395	387,765		4	
25	15 16			0.42	0.17	55,395	55,395	55,395			-	
26	17			0.42	0.17	55,395	55,395	55,395			+	
27	18			0.42	0.17	55,395	55,395	55,395			+	
28	19			0.42	0.17	55,395	55,395	55,395			7	
29	20			0.42	0.17	55,395	55,395	55,395			7	
30	21			0.42	0.17	55,395	55,395	55,395	387,765			
31	22			0.42	0.17	55,395	55,395	55,395]	
32	23			0.42	0.17	55,395	55,395	55,395		<u> </u>	_	
33	24			0.42	0.17	55,395	55,395	55,395			_	
34	25			0.42	0.17	55,395	55,395	55,395			4	
35	26			0.42	0.17	55,395	55,395	55,395			4	
36 37	27			0.42 0.42	0.17 0.17	55,395	55,395	55,395	207.705		4	
38	28 29			0.42	0.17	55,395 55,395	55,395 55,395	55,395 55,395	387,765		+	
39	30			0.42	0.17	55,395	55,395	55,395			+	
40	31			0.42	0.17	55,395	55,395	55,395	166,185		+	
41	Total (ac-ft)	0.00	0.00	5.21	5.27	5.27	5.27	5.27	5.27		+	
42	Total (gal)	0.00	0.00	1,697,032	1,717,235	1,717,245	1,717,245	1,717,245	1,717,245		†	

	Α	В	С	D	E	F	G	Н	ı	J	К	L
1							d (Golf Course Pond)					
2 3 4 5 6						Water	Accounting Record					
3						Augi	ust - Monthly Tab					
5											Signed:	
6		La	ake Surface Area (acres)	4.80							Date:	
7		2.	Pan Factor								Duto.	
8												
		B1		Default Evaporation	B. C. H. E	B. C. H. E	0.1. 1.4. 1 11.41.5	De des de Nestado	Supplemental			
1 1	Day	Diversion Volume	Groundwater Volume	Rate	Default Evaporation (ac-ft)		Calculated Net Inflow		Groundwater Release	Comments		
9		(gal)	(gal)	(in)	(ac-ii)	(gal)	(gal)	(gal)	(gal)			
10	1			0.38	0.15	48,878	48,878	48,878				
11	2			0.38	0.15	48,878	48,878	48,878			_	
12	3			0.38	0.15	48,878	48,878	48,878			_	
13	4			0.38	0.15	48,878	48,878	48,878			4	
14	5			0.38	0.15	48,878	48,878	48,878				
15 16	<u>6</u> 7			0.38 0.38	0.15 0.15	48,878 48,878	48,878 48.878	48,878 48,878	342,146		4	
17	8			0.38	0.15	48,878	48,878	48,878	342,146		-	
18	9			0.38	0.15	48,878	48,878	48,878			┪	
19	10			0.38	0.15	48,878	48,878	48.878			+	
20	11			0.38	0.15	48,878	48,878	48,878			7	
21	12			0.38	0.15	48,878	48.878	48,878			7	
22	13			0.38	0.15	48,878	48,878	48,878			7	
23	14			0.38	0.15	48,878	48,878	48,878	342,146			
24	15			0.38	0.15	48,878	48,878	48,878				
25	16			0.38	0.15	48,878	48,878	48,878			_	
26	17			0.38	0.15	48,878	48,878	48,878			-	
27	18			0.38	0.15	48,878	48,878	48,878			4	
28 29	19 20			0.38 0.38	0.15 0.15	48,878 48,878	48,878 48,878	48,878 48,878			4	
30	20			0.38	0.15	48,878	48,878	48,878	342.146		+	
31	22			0.38	0.15	48,878	48,878	48,878	J42, 140		┥	
32	23			0.38	0.15	48.878	48,878	48.878			1	
33	24			0.38	0.15	48,878	48,878	48,878			1	
34	25			0.38	0.15	48,878	48,878	48,878			1	
35	26			0.38	0.15	48,878	48,878	48,878				
36	27			0.38	0.15	48,878	48,878	48,878			_	
37	28			0.38	0.15	48,878	48,878	48,878	342,146		」	
38	29			0.38	0.15	48,878	48,878	48,878			↓	
39	30			0.38	0.15	48,878	48,878	48,878	440.004		4	
40	31	0.00	0.00	0.38 4.71	0.15 4.65	48,878 4.65	48,878 4.65	48,878 4.65	146,634 4.65		-	
41	Total (ac-ft) Total (gal)	0.00	0.00	1,535,410	4.65 1,515,207	4.65 1,515,218	4.65 1,515,218	1,515,218	1,515,218		+	
42	ı otai (gai)	1 0	1 0	1,535,410	1,515,207	1,515,218	1,515,218	1,515,218	1,515,218			

П	Α	В	С	D	E	F	G	Н	1	J	K	L
1							nd (Golf Course Pond)					
2 3 4 5 6							Accounting Record					
3						Septer	mber - Monthly Tab					
4											0: 1	
5			-l Cf A ()	4.80							Signed: Date:	
7		Lè	ake Surface Area (acres) Pan Factor								Date:	
8			FallFactor	0.73								
-				Defects Francisco					Complemental		1	
	Day	Diversion Volume	Groundwater Volume	Default Evaporation Rate	Default Evaporation	Default Evaporation	Calculated Net Inflow	Depleted Net Inflow	Supplemental Groundwater Release	Comments		
_	Day	(gal)	(gal)	(in)	(ac-ft)	(gal)	(gal)	(gal)		Comments		
10	4			0.30	0.12	39,102	39,102	39,102	(gal)			
11	1 2			0.30	0.12	39,102	39,102 39,102	39,102			1	
12	3		 	0.30	0.12	39,102	39,102	39,102			1	
13	4		 	0.30	0.12	39,102	39,102	39,102			1	ļ.
14	5			0.30	0.12	39,102	39,102	39,102			1	
15	6			0.30	0.12	39,102	39,102	39,102			1	
16	7			0.30	0.12	39,102	39,102	39,102	273.714		i	
17	8			0.30	0.12	39,102	39,102	39,102	- /		1	
18	9			0.30	0.12	39,102	39,102	39,102			i	
19	10			0.30	0.12	39,102	39,102	39,102				
20	11			0.30	0.12	39,102	39,102	39,102				
21	12			0.30	0.12	39,102	39,102	39,102				
22	13			0.30	0.12	39,102	39,102	39,102				
23	14			0.30	0.12	39,102	39,102	39,102	273,714			
24	15			0.30	0.12	39,102	39,102	39,102				
25	16			0.30	0.12	39,102	39,102	39,102				
26	17			0.30	0.12	39,102	39,102	39,102				
27 28	18			0.30 0.30	0.12 0.12	39,102 39,102	39,102 39,102	39,102 39,102			1	
29	19 20			0.30	0.12	39,102	39,102	39,102			-	
30	21		 	0.30	0.12	39,102	39,102	39,102	273,714		1	
31	22			0.30	0.12	39,102	39,102	39,102	210,114		1	
32	23			0.30	0.12	39,102	39,102	39,102			†	
33	24			0.30	0.12	39,102	39,102	39,102			1	
34	25			0.30	0.12	39,102	39,102	39,102			1	
35	26			0.30	0.12	39,102	39,102	39,102			1	
36	27			0.30	0.12	39,102	39,102	39,102			1	
37	28			0.30	0.12	39,102	39,102	39,102	273,714]	
38	29			0.30	0.12	39,102	39,102	39,102				
39	30			0.30	0.12	39,102	39,102	39,102	78,204	<u> </u>		
40]	
41	Total (ac-ft)	0.00	0.00	3.60	3.60	3.60	3.60	3.60	3.60		1	
42	Total (gal)	0	0	1,173,064	1,173,064	1,173,060	1,173,060	1,173,060	1,173,060			

П	А	В	С	D	Е	F	G	Н	1	J	К	L
1						Dove Por	nd (Golf Course Pond)					
3						Water	Accounting Record ber - Monthly Tab					
4						Octo	ber - Monthly Tab					
4											Signed:	
6		La	ake Surface Area (acres)	4.80							Date:	
7			Pan Factor	0.77								
8												
1 1		Diversion Volume	Groundwater Volume	Default Evaporation	Default Evaporation	Default Evaporation	Calculated Net Inflow	Depleted Net Inflow	Supplemental			
1 1	Day	(gal)	(gal)	Rate	(ac-ft)	(gal)	(gal)	(gal)	Groundwater Release	Comments		
9		(3.)	(3.7)	(in)					(gal)		1	
10	1			0.22 0.22	0.09	29,327	29,327	29,327			1	
12	2 3			0.22	0.09	29,327 29,327	29,327 29,327	29,327 29,327			+	
13	4			0.22	0.09	29,327	29,327	29,327			+	
14	5			0.22	0.09	29,327	29,327	29,327			†	
15	6			0.22	0.09	29,327	29,327	29,327			1	
16	7			0.22	0.09	29,327	29,327	29,327	205,289		1	
17	8			0.22	0.09	29,327	29,327	29,327			Ī	
18	9			0.22	0.09	29,327	29,327	29,327				
19	10			0.22	0.09	29,327	29,327	29,327			1	
20	11			0.22	0.09	29,327	29,327	29,327				
21	12			0.22 0.22	0.09	29,327 29,327	29,327 29,327	29,327 29,327			-	
23	13 14			0.22	0.09	29,327	29,327	29,327	205.289		-	
24	15			0.22	0.09	29,327	29,327	29,327	205,269		+	
25	16			0.22	0.09	29,327	29,327	29,327			†	
26	17			0.22	0.09	29,327	29,327	29,327			†	
27	18			0.22	0.09	29,327	29,327	29,327			1	
28	19			0.22	0.09	29,327	29,327	29,327]	
29	20			0.22	0.09	29,327	29,327	29,327			1	
30	21			0.22	0.09	29,327	29,327	29,327	205,289		1	
31	22			0.22 0.22	0.09	29,327 29.327	29,327 29.327	29,327 29.327			4	
32 33	23 24			0.22	0.09	29,327 29,327	29,327 29,327	29,327			4	
34	25			0.22	0.09	29,327	29,327	29,327			+	
35	26			0.22	0.09	29,327	29,327	29,327			†	
36	27			0.22	0.09	29,327	29,327	29,327			†	
37	28			0.22	0.09	29,327	29,327	29,327	205,289		1	
38	29			0.22	0.09	29,327	29,327	29,327			1	
39	30			0.22	0.09	29,327	29,327	29,327]	
40	31			0.22	0.09	29,327	29,327	29,327	87,981		1	
41	Total (ac-ft)	0.00	0.00	2.73	2.79	2.79	2.79	2.79	2.79		1	
42	Total (gal)	0	0	888,922	909,124	909,137	909,137	909,137	909,137		1	

П	Α	В	С	D	Е	F	G	Н	I	J	K	L
1							nd (Golf Course Pond)					
2 3 4 5 6 7							Accounting Record					
3						Nover	nber - Monthly Tab					
- 4											Signed:	
6		Le	ake Surface Area (acres)	4.80							Date:	
7			Pan Factor								Duic.	
8			1 4111 40101	0.0								
				Default Evaporation					Supplemental			
	Day	Diversion Volume	Groundwater Volume	Rate	Default Evaporation				Groundwater Release	Comments		
9	·	(gal)	(gal)	(in)	(ac-ft)	(gal)	(gal)	(gal)	(gal)			
10	1			0.15	0.06	19,551	19,551	19,551				
11	2			0.15	0.06	19,551	19,551	19,551			1	
12	3			0.15	0.06	19,551	19,551	19,551]	
13	4			0.15	0.06	19,551	19,551	19,551				
14	5			0.15	0.06	19,551	19,551	19,551			1	
15	6			0.15	0.06	19,551	19,551	19,551			_	
16 17	7			0.15 0.15	0.06	19,551	19,551	19,551	136,857		4	
18	<u>8</u> 9			0.15	0.06	19,551 19,551	19,551 19,551	19,551 19,551			-	
19	10			0.15	0.06	19,551	19,551	19,551			+	
20	11			0.15	0.06	19,551	19,551	19,551			1	
21	12			0.15	0.06	19,551	19,551	19,551			1	
22	13			0.15	0.06	19,551	19,551	19,551			†	
23	14			0.15	0.06	19,551	19,551	19,551	136,857			
24	15			0.15	0.06	19,551	19,551	19,551				
25	16			0.15	0.06	19,551	19,551	19,551				
26	17			0.15	0.06	19,551	19,551	19,551				
27	18			0.15	0.06	19,551	19,551	19,551			1	
28	19		-	0.15	0.06	19,551	19,551	19,551			4	
29 30	20 21			0.15 0.15	0.06	19,551 19,551	19,551 19,551	19,551 19,551	136.857		-	
31	21			0.15	0.06	19,551	19,551	19,551	130,007		+	
32	23			0.15	0.06	19,551	19,551	19,551			+	
33	24			0.15	0.06	19,551	19,551	19,551			†	
34	25			0.15	0.06	19,551	19,551	19,551			1	
35	26			0.15	0.06	19,551	19,551	19,551			1	
36	27			0.15	0.06	19,551	19,551	19,551			1	
37	28			0.15	0.06	19,551	19,551	19,551	136,857		1	
38	29			0.15	0.06	19,551	19,551	19,551			1	
39	30			0.15	0.06	19,551	19,551	19,551	39,102		1	
40	T-(-1(6)	2.00	0.00	4.00	4.00	4.00	100	1.00	4.00		4	
41	Total (ac-ft)	0.00	0.00	1.80	1.80	1.80	1.80	1.80	1.80		1	
42	Total (gal)	0	0	586,532	586,532	586,530	586,530	586,530	586,530			

П	A	В	С	D	Е	F	G	Н	I	J	K	L
1							nd (Golf Course Pond)		•			
2 3 4 5 6 7							Accounting Record					
3						Decer	nber - Monthly Tab				6: 1	
4											Signed: Date:	
5		l a	ke Surface Area (acres)	4.80							Date:	
7		Lè	Re Surface Area (acres) Pan Factor	0.77								
8			FallFactor	0.77								
Ť				Default Evaporation					Supplemental		1	
	Day	Diversion Volume	Groundwater Volume	Rate	Default Evaporation		Calculated Net Inflow		Groundwater Release	Comments		
_	Day	(gal)	(gal)	(in)	(ac-ft)	(gal)	(gal)	(gal)	(gal)	Comments		
10	1			0.11	0.04	13,034	13,034	13,034	(gui)		-	
11	2			0.11	0.04	13,034	13,034	13,034			†	
12	3			0.11	0.04	13,034	13,034	13,034			†	
13	4			0.11	0.04	13,034	13,034	13,034			†	
14	5			0.11	0.04	13,034	13,034	13,034			1	
15	6			0.11	0.04	13,034	13,034	13,034			1	
16	7			0.11	0.04	13,034	13,034	13,034				
17	8			0.11	0.04	13,034	13,034	13,034				
18	9			0.11	0.04	13,034	13,034	13,034			_	
19	10			0.11	0.04	13,034	13,034	13,034				
20	11			0.11	0.04	13,034	13,034	13,034				
21	12			0.11	0.04	13,034	13,034	13,034			1	
22	13			0.11	0.04	13,034	13,034	13,034			_	
23	14			0.11	0.04	13,034	13,034	13,034	182,476		4	
24 25	15 16			0.11 0.11	0.04 0.04	13,034 13,034	13,034 13,034	13,034 13,034			4	
26	17			0.11	0.04	13,034	13,034	13,034			-	
27	18			0.11	0.04	13,034	13,034	13,034			+	
28	19			0.11	0.04	13,034	13,034	13,034			†	
29	20			0.11	0.04	13,034	13,034	13,034			†	
30	21			0.11	0.04	13,034	13,034	13,034			1	
31	22			0.11	0.04	13,034	13,034	13,034			1	
32	23			0.11	0.04	13,034	13,034	13,034			1	
33	24			0.11	0.04	13,034	13,034	13,034			1	
34	25			0.11	0.04	13,034	13,034	13,034]	
35	26			0.11	0.04	13,034	13,034	13,034			1	
36	27			0.11	0.04	13,034	13,034	13,034			1	
37	28			0.11	0.04	13,034	13,034	13,034	182,476		1	
38	29			0.11	0.04	13,034	13,034	13,034			1	
39	30			0.11	0.04	13,034	13,034	13,034	00.400		4	
40	31	0.00	0.00	0.11	0.04	13,034	13,034	13,034	39,102		4	
41	Total (ac-ft)	0.00	0.00	1.36 444.461	1.24	1.24 404.054	1.24 404.054	1.24 404.054	1.24 404.054		+	
42	Total (gal)	0	0	444,461	404,055	404,054	404,054	404,054	404,054			

Dove Pond (Golf Course Pond) Water Accounting Record Evap Data Tab

Month	Days in Month	TWDB 75th Percentile Monthly Rate (in)	Daily Pan Rate (in)	Pan Factor
January	31	2.48	0.11	0.73
February	28	2.95	0.15	0.70
March	31	4.53	0.21	0.69
April	30	5.40	0.27	0.67
May	31	5.39	0.29	0.60
June	30	7.38	0.37	0.67
July	31	9.04	0.42	0.69
August	31	8.35	0.38	0.70
September	30	6.57	0.30	0.73
October	31	5.14	0.22	0.77
November	30	3.52	0.15	0.80
December	31	2.74	0.11	0.77

Dove Pond (Golf Course Pond) Water Accounting Record TWDB Pan Lake Factor Tab

TWDB Link

Quad 410					Tex	as Water D	levelopmen	it Board					
410	Jan	Feb	Mar	Apr	Mo May	nthly Pan F Jun	actor Used Jul	in Evap Aug	Sep	Oct	Nov	Dec	Ann
411	0.73	0.7	0.69	0.67	0.6	0.67	0.69	0.7	0.73	0.77	0.8	0.77	0.7
412	0.74	0.71	0.7	0.68	0.61	0.68	0.7	0.71	0.74	0.78	0.81	0.78	0.71
413 414	0.76	0.73	0.72	0.71	0.65	0.71	0.72	0.73	0.76	0.79	0.81	0.79	0.73
501	0.77	0.74	0.73	0.72	0.66	0.72	0.73	0.68	0.77	0.74	0.82	0.74	0.74
502	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
504	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
505 506	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7 0.71	0.73 0.75	0.75	0.73	0.67
507	0.72	0.69	0.68	0.65	0.57	0.65	0.68	0.69	0.72	0.77	0.81	0.77	0.69
508	0.72	0.69	0.68	0.65	0.57	0.65	0.68	0.69	0.72	0.77	0.81	0.77	0.69
510	0.73	0.7	0.69	0.67	0.6	0.67	0.69	0.7	0.73	0.77	0.8	0.77	0.7
511 512	0.74	0.71	0.7	0.68	0.61	0.68	0.7	0.71	0.74	0.78	0.81	0.78	0.71
513 514	0.76	0.73	0.72	0.71	0.65	0.71	0.72	0.73	0.76	0.79	0.81	0.79	0.73
601	0.71	0.68	0.67	0.72	0.6	0.72	0.67	0.68	0.71	0.74	0.76	0.74	0.68
602	0.71 0.69	0.68 0.67	0.67	0.66	0.6 0.61	0.66	0.67 0.67	0.68	0.71	0.74 0.72	0.76	0.74	0.68
604	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
605 606	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
607 608	0.72	0.69	0.68	0.67	0.61	0.67	0.68	0.69	0.72	0.75	0.77	0.75	0.69
609	0.72	0.69	0.68	0.67	0.61	0.67	0.68	0.69	0.72	0.75	0.77	0.75	0.69
610	0.73	0.7	0.69	0.67	0.6	0.67	0.69	0.7	0.73	0.77	0.8	0.77	0.7
611 612	0.74	0.71 0.72	0.7 0.71	0.69	0.63 0.62	0.69	0.7 0.71	0.71 0.72	0.74 0.75	0.77 0.79	0.79 0.82	0.77	0.71 0.72
613 614	0.75	0.73	0.73	0.72	0.67	0.72	0.73	0.73	0.75	0.78	0.79	0.78	0.73
701	0.76	0.74	0.74	0.73	0.68	0.73	0.74	0.74	0.76	0.79	0.8	0.79	0.74
702 703	0.68	0.67	0.66	0.64	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
704	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
705 706	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
707	0.72	0.69	0.68	0.67	0.61	0.67	0.68	0.69	0.72	0.75	0.77	0.75	0.69
708 709	0.72 0.73	0.69	0.68	0.67 0.67	0.61	0.67	0.68	0.69	0.72	0.75 0.77	0.77	0.75 0.77	0.69
710	0.73	0.7	0.69	0.67	0.6	0.67	0.69	0.7	0.73	0.77	0.8	0.77	0.7
711 712	0.73	0.71	0.71	0.7	0.65	0.7	0.71	0.71	0.73	0.76	0.77	0.76	0.71
713 714	0.75	0.73	0.73	0.72	0.67	0.72	0.73	0.73	0.75	0.78	0.79	0.78	0.73 0.74
714 801	0.76	0.74	0.74	0.73	0.68	0.73	0.74	0.74	0.76	0.79	0.8	0.79	0.74
802	0.68	0.67	0.66	0.64	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
803 804	0.69	0.67 0.67	0.67	0.66	0.61 0.61	0.66	0.67	0.67	0.69	0.72 0.72	0.73 0.73	0.72 0.72	0.67 0.67
805 806	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
807	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73 0.75	0.75	0.73 0.75	0.67
808 809	0.71	0.69	0.69	0.68	0.63 0.64	0.68	0.69	0.69	0.71	0.74	0.75	0.74	0.69
810	0.72	0.7	0.7	0.69	0.64	0.69	0.7	0.7	0.72	0.75	0.76	0.75	0.7
811 812	0.73	0.71	0.71	0.7	0.65	0.7	0.71	0.71	0.73	0.76	0.77	0.76	0.71
813	0.75	0.73	0.73	0.73	0.69	0.73	0.73	0.73	0.75	0.77	0.77	0.77	0.73
901	0.76	0.74	0.74 0.67	0.73	0.68	0.73	0.74	0.74	0.76	0.79	0.8	0.79	0.74
901 902	0.68	0.67	0.66	0.64	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
903 904	0.69	0.67 0.67	0.67	0.66	0.61	0.66	0.67	0.67	0.69	0.72 0.72	0.73	0.72 0.72	0.67
905 906	0.7	0.67 0.67	0.66	0.65	0.59	0.65	0.66	0.67 0.67	0.7	0.73 0.73	0.75 0.75	0.73	0.67 0.67
907	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
908 909	0.71	0.69	0.69	0.68	0.63	0.68	0.69	0.69	0.71	0.74	0.75	0.74	0.69
910 911	0.72	0.7	0.7	0.69	0.64	0.69	0.7	0.7	0.72	0.75	0.76	0.75	0.7
911	0.73	0.71	0.71	0.7	0.65	0.7	0.71	0.71	0.73	0.76	0.77	0.76	0.71
912 913	0.74	0.72 0.72	0.72 0.72	0.72	0.68	0.72 0.72	0.72 0.72	0.72 0.72	0.74 0.74	0.76 0.76	0.76 0.76	0.76 0.76	0.72 0.72
914 1001	0.74	0.72 0.68	0.72 0.67	0.72	0.68	0.72 0.66	0.72 0.67	0.72 0.68	0.74	0.76 0.74	0.76 0.76	0.76 0.74	0.72 0.68
1002	0.68	0.67	0.66	0.64	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
1003 1004	0.69	0.67	0.67	0.66	0.61	0.66	0.67	0.67	0.69	0.72	0.73	0.72	0.67
1005 1006	0.7	0.67	0.66						0.69	0.72			0.67
		0.67	0.00	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
1007	0.71	0.67	0.66	0.65	0.59	0.65	0.66 0.66 0.67	0.67 0.67 0.68	0.7 0.7 0.71	0.73	0.75 0.75 0.76	0.73 0.73 0.74	0.67 0.67 0.67 0.68
1007	0.71 0.71	0.67 0.68 0.69	0.66 0.67 0.69	0.65 0.66 0.68	0.59 0.6 0.63	0.65 0.66 0.68	0.66 0.66 0.67 0.69	0.67 0.67 0.68 0.69	0.7 0.7 0.71 0.71	0.73 0.73 0.74 0.74	0.75 0.75 0.76 0.75	0.73 0.73 0.74 0.74	0.67 0.67 0.67 0.68 0.69
1007 1008 1009 1010	0.71 0.71 0.72 0.72	0.67 0.68 0.69 0.7 0.7	0.66 0.67 0.69 0.7	0.65 0.66 0.68 0.69	0.59 0.6 0.63 0.64 0.66	0.65 0.66 0.68 0.69	0.66 0.67 0.69 0.7 0.7	0.67 0.67 0.68 0.69 0.7	0.7 0.7 0.71 0.71 0.72 0.72	0.73 0.73 0.74 0.74 0.75	0.75 0.75 0.76 0.75 0.76 0.76	0.73 0.73 0.74 0.74 0.75	0.67 0.67 0.67 0.68 0.69 0.7
1007 1008 1009 1010 1011	0.71 0.71 0.72 0.72 0.73	0.67 0.68 0.69 0.7 0.7 0.7	0.66 0.67 0.69 0.7 0.7	0.65 0.66 0.68 0.69 0.7 0.7	0.59 0.6 0.63 0.64 0.66 0.65	0.65 0.66 0.68 0.69 0.7 0.7	0.66 0.66 0.67 0.69 0.7 0.7	0.67 0.67 0.68 0.69 0.7 0.7	0.7 0.7 0.71 0.71 0.72 0.72 0.73	0.73 0.73 0.74 0.74 0.75 0.74 0.76	0.75 0.75 0.76 0.75 0.76 0.74 0.77	0.73 0.73 0.74 0.74 0.75 0.74 0.76	0.67 0.67 0.68 0.69 0.7 0.7 0.71
1007 1008 1009 1010 1011 1012 1013	0.71 0.71 0.72 0.72 0.73 0.74 0.74	0.67 0.68 0.69 0.7 0.7 0.71 0.72 0.72	0.66 0.67 0.69 0.7 0.7 0.71 0.72 0.72	0.65 0.66 0.68 0.69 0.7 0.7 0.72	0.59 0.6 0.63 0.64 0.66 0.65 0.68 0.68	0.65 0.66 0.68 0.69 0.7 0.7 0.72	0.66 0.67 0.69 0.7 0.7 0.7 0.71 0.72	0.67 0.67 0.68 0.69 0.7 0.7 0.71 0.72	0.7 0.7 0.71 0.71 0.72 0.72 0.72 0.73 0.74	0.73 0.73 0.74 0.74 0.75 0.74 0.76 0.76	0.75 0.75 0.76 0.75 0.76 0.74 0.77 0.76	0.73 0.74 0.74 0.75 0.75 0.74 0.76 0.76	0.67 0.67 0.68 0.68 0.69 0.7 0.7 0.71 0.72 0.72
1007 1008 1009 1010 1011 1012 1013 1014 1101	0.71 0.71 0.72 0.72 0.73 0.74	0.67 0.68 0.69 0.7 0.7 0.71	0.66 0.67 0.69 0.7 0.7 0.71	0.65 0.66 0.68 0.69 0.7 0.7	0.59 0.6 0.63 0.64 0.66 0.65	0.65 0.66 0.68 0.69 0.7 0.7	0.66 0.67 0.69 0.7 0.7 0.71	0.67 0.67 0.68 0.69 0.7 0.7 0.71	0.7 0.7 0.71 0.71 0.72 0.72 0.72 0.73	0.73 0.73 0.74 0.74 0.75 0.74 0.76	0.75 0.75 0.76 0.75 0.76 0.74 0.77	0.73 0.73 0.74 0.74 0.75 0.74 0.76	0.67 0.67 0.68 0.69 0.7 0.7 0.71 0.72
1007 1008 1009 1010 1011 1012 1013 1014 1101 1102	0.71 0.71 0.72 0.72 0.73 0.74 0.74 0.74 0.71	0.67 0.68 0.69 0.7 0.7 0.71 0.72 0.72 0.72 0.72 0.68 0.67	0.66 0.67 0.69 0.7 0.7 0.71 0.72 0.72 0.72 0.67 0.66	0.65 0.66 0.68 0.69 0.7 0.7 0.72 0.72 0.72 0.72 0.66 0.64	0.59 0.6 0.63 0.64 0.66 0.65 0.68 0.68 0.68 0.68	0.65 0.66 0.68 0.69 0.7 0.7 0.72 0.72 0.72 0.72 0.66 0.66	0.66 0.67 0.69 0.7 0.7 0.71 0.72 0.72 0.72 0.72 0.67	0.67 0.68 0.69 0.7 0.7 0.71 0.72 0.72 0.72 0.72 0.68 0.68	0.7 0.7 0.71 0.71 0.72 0.72 0.73 0.74 0.74 0.74 0.71	0.73 0.74 0.74 0.75 0.76 0.76 0.76 0.76 0.76 0.76 0.74	0.75 0.75 0.76 0.75 0.76 0.74 0.77 0.76 0.76 0.76 0.76	0.73 0.74 0.74 0.75 0.76 0.76 0.76 0.76 0.76 0.76 0.74	0.67 0.67 0.68 0.69 0.7 0.7 0.71 0.72 0.72 0.72 0.68 0.68
1007 1008 1009 1010 1011 1012 1013 1014 1101 1102 1103 1104	0.71 0.71 0.72 0.72 0.73 0.74 0.74 0.74	0.67 0.68 0.69 0.7 0.7 0.71 0.72 0.72 0.72 0.72 0.68	0.66 0.67 0.69 0.7 0.7 0.71 0.72 0.72 0.72 0.72 0.67	0.65 0.66 0.68 0.69 0.7 0.7 0.72 0.72 0.72 0.72	0.59 0.6 0.63 0.64 0.66 0.65 0.68 0.68 0.68	0.65 0.66 0.68 0.69 0.7 0.7 0.72 0.72 0.72 0.72	0.66 0.67 0.69 0.7 0.7 0.71 0.72 0.72 0.72 0.72	0.67 0.68 0.69 0.7 0.7 0.71 0.72 0.72 0.72 0.72	0.7 0.7 0.71 0.71 0.72 0.72 0.73 0.74 0.74 0.74	0.73 0.74 0.74 0.75 0.74 0.76 0.76 0.76 0.76 0.76	0.75 0.75 0.76 0.75 0.76 0.76 0.74 0.77 0.76 0.76 0.76	0.73 0.74 0.74 0.74 0.75 0.76 0.76 0.76 0.76 0.76	0.67 0.67 0.68 0.69 0.7 0.7 0.71 0.72 0.72 0.72 0.68
1007 1008 1009 1010 1011 1012 1013 1014 1101 1102 1103 1104 1105	0.71 0.71 0.72 0.72 0.73 0.74 0.74 0.74 0.71 0.68 0.69 0.69	0.67 0.68 0.69 0.7 0.7 0.71 0.72 0.72 0.72 0.68 0.67 0.67	0.66 0.67 0.69 0.7 0.71 0.72 0.72 0.72 0.67 0.66 0.67 0.66	0.65 0.66 0.68 0.69 0.7 0.7 0.72 0.72 0.72 0.66 0.66 0.64 0.66 0.66 0.65	0.59 0.6 0.63 0.64 0.65 0.68 0.68 0.68 0.6 0.6 0.61 0.61	0.65 0.66 0.68 0.69 0.7 0.7 0.72 0.72 0.72 0.66 0.66 0.66 0.66 0.66	0.66 0.66 0.67 0.69 0.7 0.7 0.71 0.72 0.72 0.72 0.67 0.67 0.67	0.67 0.68 0.69 0.7 0.7 0.71 0.72 0.72 0.72 0.68 0.68 0.68 0.67	0.7 0.7 0.71 0.71 0.72 0.72 0.73 0.74 0.74 0.74 0.71 0.71 0.69	0.73 0.73 0.74 0.74 0.75 0.76 0.76 0.76 0.76 0.76 0.74 0.74 0.74 0.72 0.72	0.75 0.75 0.76 0.75 0.76 0.74 0.77 0.76 0.76 0.76 0.76 0.76 0.76 0.76	0.73 0.73 0.74 0.74 0.75 0.74 0.76 0.76 0.76 0.76 0.76 0.74 0.74 0.74 0.74 0.74	0.67 0.67 0.67 0.68 0.69 0.7 0.7 0.71 0.72 0.72 0.72 0.68 0.68 0.69
1007 1008 1009 1010 1011 1012 1013 1014 1101 1102 1103 1104 1105 1106 1107	0.71 0.72 0.72 0.73 0.74 0.74 0.74 0.71 0.69 0.69 0.7 0.7 0.71	0.67 0.68 0.69 0.7 0.7 0.71 0.72 0.72 0.72 0.68 0.67 0.67 0.67 0.67	0.66 0.67 0.69 0.7 0.7 0.71 0.72 0.72 0.72 0.67 0.66 0.67 0.66 0.67 0.66 0.66 0.66	0.65 0.66 0.68 0.7 0.7 0.72 0.72 0.72 0.66 0.64 0.66 0.66 0.65 0.65	0.59 0.6 0.63 0.64 0.66 0.65 0.68 0.68 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6	0.65 0.66 0.68 0.7 0.7 0.7 0.72 0.72 0.72 0.66 0.66 0.66 0.66 0.65 0.65	0.66 0.66 0.67 0.69 0.7 0.71 0.72 0.72 0.72 0.67 0.67 0.67 0.67 0.66 0.66 0.66	0.67 0.68 0.69 0.7 0.7 0.71 0.72 0.72 0.72 0.68 0.68 0.67 0.67 0.67 0.67	0.7 0.7 0.71 0.71 0.72 0.73 0.74 0.74 0.74 0.71 0.71 0.69 0.69 0.7 0.7 0.7	0.73 0.73 0.74 0.74 0.75 0.76 0.76 0.76 0.76 0.76 0.76 0.74 0.74 0.72 0.72 0.72 0.73	0.75 0.75 0.76 0.75	0.73 0.73 0.74 0.74 0.75 0.76 0.76 0.76 0.76 0.76 0.76 0.74 0.72 0.72 0.72 0.73 0.74	0.67 0.67 0.67 0.68 0.69 0.7 0.7 0.72 0.72 0.72 0.72 0.68 0.68 0.67 0.67 0.67 0.67
1007 1008 1009 1010 1011 1012 1013 1014 1101 1102 1103 1104 1105 1106 1107	0.71 0.71 0.72 0.72 0.73 0.74 0.74 0.71 0.68 0.69 0.69 0.7 0.7 0.7 0.71	0.67 0.68 0.69 0.7 0.7 0.71 0.72 0.72 0.72 0.68 0.67 0.67 0.67 0.67 0.67	0.66 0.67 0.69 0.7 0.7 0.71 0.72 0.72 0.67 0.66 0.66 0.66 0.66 0.69	0.65 0.66 0.68 0.7 0.7 0.72 0.72 0.72 0.72 0.66 0.66 0.66 0.65 0.65 0.66	0.59 0.6 0.63 0.64 0.65 0.68 0.68 0.68 0.6 0.6 0.61 0.61 0.59 0.59 0.65	0.65 0.66 0.68 0.7 0.7 0.72 0.72 0.72 0.72 0.66 0.66 0.66 0.66 0.66 0.65 0.65	0.66 0.66 0.67 0.69 0.7 0.7 0.71 0.72 0.72 0.67 0.67 0.67 0.66 0.66 0.66 0.66 0.69	0.67 0.68 0.69 0.7 0.7 0.71 0.72 0.72 0.68 0.68 0.69	0.7 0.7 0.71 0.72 0.72 0.73 0.74 0.74 0.71 0.71 0.69 0.69 0.7 0.7 0.7 0.7	0.73 0.74 0.74 0.74 0.75 0.74 0.76 0.76 0.76 0.76 0.76 0.74 0.72 0.72 0.73 0.73 0.73	0.75 0.75 0.76 0.76 0.74 0.77 0.76 0.76 0.76 0.76 0.76 0.76 0.73 0.73 0.75 0.75	0.73 0.74 0.74 0.74 0.75 0.76 0.76 0.76 0.76 0.76 0.77 0.74 0.72 0.73 0.73 0.73	0.67 0.67 0.67 0.68 0.69 0.7 0.7 0.71 0.72 0.72 0.68 0.68 0.68 0.69 0.67 0.67 0.67
1007 1008 1009 1010 1011 1012 1013 1014 1101 1102 1103 1104 1105 1106 1107 1108 1109 1110	0.71 0.72 0.72 0.73 0.74 0.74 0.74 0.71 0.68 0.69 0.7 0.7 0.7 0.71 0.71 0.71	0.67 0.68 0.69 0.7 0.7 0.71 0.72 0.72 0.68 0.67 0.67 0.67 0.67 0.68 0.69 0.7	0.66 0.67 0.7 0.7 0.7 0.71 0.72 0.72 0.72 0.66 0.67 0.66 0.67 0.66 0.67 0.69 0.7	0.65 0.66 0.68 0.69 0.7 0.7 0.72 0.72 0.66 0.64 0.66 0.65 0.65 0.65 0.69 0.7	0.59 0.6 0.63 0.64 0.66 0.68 0.68 0.68 0.6 0.61 0.61 0.59 0.6 0.65	0.65 0.66 0.68 0.69 0.7 0.7 0.72 0.72 0.66 0.66 0.66 0.65 0.65 0.66 0.65	0.66 0.66 0.67 0.7 0.7 0.72 0.72 0.72 0.67 0.67 0.67 0.66 0.66 0.67 0.69 0.7	0.67 0.67 0.68 0.69 0.7 0.7 0.71 0.72 0.72 0.72 0.68 0.68 0.67 0.67 0.67 0.67 0.68 0.69	0.7 0.7 0.71 0.72 0.72 0.73 0.74 0.74 0.74 0.71 0.69 0.69 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7	0.73 0.73 0.74 0.74 0.75 0.76 0.76 0.76 0.76 0.74 0.72 0.72 0.73 0.73 0.74 0.73	0.75 0.75 0.76 0.76 0.74 0.77 0.76 0.76 0.76 0.76 0.76 0.73 0.73 0.73 0.73 0.75 0.76	0.73 0.73 0.74 0.74 0.75 0.76 0.76 0.76 0.76 0.76 0.72 0.72 0.72 0.73 0.74 0.73 0.74	0.67 0.67 0.67 0.68 0.69 0.7 0.7 0.71 0.72 0.72 0.68 0.68 0.69 0.67 0.67 0.67 0.67 0.67 0.67 0.69
1007 1008 1009 1010 1011 1012 1013 1014 1101 1102 1103 1104 1105 1106 1107 1108 1109 1109 1110 1109 1110 1109 1110 110	0.71 0.71 0.72 0.72 0.73 0.74 0.74 0.71 0.68 0.69 0.69 0.7 0.7 0.71 0.71 0.71 0.72 0.73	0.67 0.68 0.69 0.7 0.7 0.71 0.72 0.72 0.67 0.67 0.67 0.67 0.69 0.7 0.71	0.66 0.67 0.69 0.7 0.7 0.71 0.72 0.72 0.72 0.66 0.67 0.66 0.66 0.67 0.69 0.7 0.71	0.65 0.66 0.68 0.69 0.7 0.7 0.72 0.72 0.72 0.64 0.66 0.65 0.65 0.65 0.69 0.7 0.7	0.59 0.6 0.63 0.64 0.66 0.68 0.68 0.68 0.6 0.61 0.61 0.59 0.6 0.65 0.66 0.65	0.65 0.66 0.68 0.69 0.7 0.7 0.72 0.72 0.72 0.66 0.66 0.66 0.65 0.65 0.66 0.69 0.7 0.7	0.66 0.66 0.67 0.7 0.7 0.72 0.72 0.67 0.67 0.67 0.67 0.66 0.66 0.66 0.69 0.7 0.70 0.71	0.67 0.67 0.68 0.69 0.7 0.7 0.72 0.72 0.72 0.68 0.68 0.67 0.67 0.67 0.67 0.67 0.69 0.7 0.70 0.7	0.7 0.7 0.71 0.71 0.72 0.73 0.74 0.74 0.74 0.71 0.69 0.69 0.7 0.7 0.71 0.71 0.72 0.72 0.73	0.73 0.73 0.74 0.74 0.75 0.76 0.76 0.76 0.76 0.74 0.72 0.72 0.73 0.73 0.73 0.73 0.74 0.73	0.75 0.75 0.76 0.76 0.76 0.77 0.76 0.76 0.76 0.76	0.73 0.73 0.74 0.74 0.75 0.76 0.76 0.76 0.76 0.74 0.72 0.72 0.73 0.73 0.73 0.73 0.74 0.73	0.67 0.67 0.68 0.69 0.7 0.7 0.71 0.72 0.72 0.72 0.68 0.66 0.67 0.67 0.67 0.67 0.69 0.7 0.71
1007 1008 1009 1010 1011 1012 1013 1014 1101 1102 1103 1104 1105 1106 1107 1108 1109 1109 1110 1109 1110 1109 1110 110	0.71 0.71 0.72 0.73 0.74 0.74 0.74 0.71 0.68 0.69 0.7 0.7 0.71 0.71 0.71 0.71 0.72 0.72 0.73	0.67 0.68 0.69 0.7 0.7 0.71 0.72 0.72 0.72 0.67 0.67 0.67 0.67 0.67 0.69 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7	0.66 0.67 0.7 0.7 0.7 0.72 0.72 0.67 0.66 0.67 0.66 0.67 0.69 0.7 0.71 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.67 0.66 0.67 0.66 0.67 0.69 0.67 0.69 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7	0.65 0.66 0.68 0.69 0.7 0.7 0.72 0.72 0.72 0.72 0.66 0.64 0.66 0.65 0.65 0.65 0.67 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.	0.59 0.6 0.63 0.64 0.66 0.65 0.68 0.68 0.6 0.61 0.61 0.59 0.6 0.65 0.66 0.65 0.66 0.65 0.66 0.65	0.65 0.66 0.68 0.69 0.7 0.7 0.72 0.72 0.72 0.72 0.66 0.66 0.66 0.65 0.65 0.65 0.67 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.	0.66 0.66 0.67 0.7 0.71 0.72 0.72 0.67 0.67 0.67 0.66 0.67 0.66 0.67 0.70 0.70	0.67 0.57 0.58 0.59 0.7 0.7 0.71 0.72 0.72 0.58 0.58 0.57 0.67 0.67 0.67 0.67 0.69 0.7 0.72 0.72 0.72 0.72 0.72 0.72 0.73 0.74 0.75 0.7	0.7 0.7 0.71 0.71 0.72 0.73 0.74 0.74 0.74 0.71 0.71 0.69 0.7 0.7 0.71 0.71 0.71 0.72	0.73 0.73 0.74 0.74 0.75 0.76 0.76 0.76 0.76 0.76 0.77 0.72 0.72 0.72 0.73 0.74 0.73 0.74 0.75 0.76 0.77	0.75 0.75 0.76 0.76 0.77 0.76 0.77 0.76 0.76 0.77 0.76 0.76	0.73 0.73 0.74 0.74 0.75 0.76 0.76 0.76 0.76 0.77 0.74 0.77 0.74 0.77 0.72 0.73 0.73 0.74 0.73 0.74 0.76 0.76 0.76 0.76 0.76 0.77 0.77 0.77	0.67 0.67 0.68 0.69 0.7 0.7 0.7 0.72 0.72 0.72 0.72 0.68 0.68 0.69 0.67 0.67 0.67 0.67 0.69 0.7 0.71 0.72
1007 1008 1009 1010 1011 1012 1013 1014 1101 1102 1103 1104 1105 1106 1107 1108 1109 1110 1111 1111 1111 1112 1113	0.71 0.71 0.72 0.72 0.73 0.74 0.74 0.74 0.71 0.68 0.69 0.69 0.7 0.7 0.71 0.71 0.72 0.72 0.73 0.74	0.67 0.68 0.69 0.7 0.7 0.71 0.72 0.72 0.72 0.67 0.67 0.67 0.67 0.69 0.7 0.7 0.71 0.72	0.66 0.67 0.7 0.7 0.71 0.72 0.72 0.72 0.66 0.67 0.66 0.66 0.67 0.69 0.7 0.70 0.7	0.65 0.66 0.68 0.69 0.7 0.7 0.72 0.72 0.72 0.72 0.66 0.64 0.66 0.65 0.65 0.65 0.69 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7	0.59 0.6 0.63 0.64 0.66 0.65 0.68 0.68 0.68 0.6 0.61 0.61 0.59 0.59 0.6 0.65 0.66 0.65 0.66 0.65	0.65 0.66 0.68 0.69 0.7 0.7 0.72 0.72 0.72 0.72 0.66 0.66 0.66 0.65 0.65 0.65 0.69 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7	0.66 0.67 0.7 0.7 0.72 0.72 0.72 0.72 0.67 0.67 0.66 0.66 0.66 0.66 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7	0.67 0.67 0.68 0.69 0.7 0.7 0.71 0.72 0.72 0.72 0.68 0.68 0.67 0.67 0.67 0.67 0.69	0.7 0.7 0.71 0.71 0.72 0.73 0.74 0.74 0.74 0.71 0.69 0.69 0.69 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7	0.73 0.73 0.74 0.75 0.76 0.76 0.76 0.76 0.76 0.74 0.72 0.72 0.73 0.73 0.74 0.73 0.74 0.75	0.75 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76	0.73 0.73 0.74 0.75 0.76 0.76 0.76 0.76 0.76 0.74 0.72 0.73 0.73 0.73 0.74 0.73 0.74 0.75	0.67 0.67 0.68 0.69 0.7 0.7 0.7 0.72 0.72 0.68 0.68 0.68 0.67 0.67 0.67 0.67 0.69 0.7 0.71 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.73 0.74 0.75
1007 1008 1009 1010 1011 1012 1013 1014 1101 1102 1103 1104 1105 1106 1107 1108 1109 1110 1111 1111 1111 1111 1111	0.71 0.71 0.72 0.72 0.73 0.74 0.74 0.74 0.71 0.68 0.69 0.7 0.7 0.7 0.71 0.71 0.72 0.72 0.73 0.74 0.74 0.71 0.71 0.71 0.71 0.72 0.73 0.74 0.74 0.74 0.74 0.74 0.74 0.74 0.74 0.74 0.74 0.74 0.75 0.7	0.67 0.68 0.69 0.7 0.7 0.71 0.72 0.72 0.68 0.67 0.67 0.67 0.67 0.69 0.7 0.71 0.72 0.72 0.68 0.69 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7	0.66 0.67 0.7 0.7 0.71 0.72 0.72 0.72 0.66 0.67 0.66 0.66 0.66 0.66 0.67 0.7 0.71 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72	0.65 0.66 0.68 0.69 0.7 0.72 0.72 0.72 0.66 0.66 0.66 0.65 0.65 0.67 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.	0.59 0.63 0.64 0.66 0.65 0.68 0.68 0.68 0.61 0.61 0.61 0.65 0.65 0.66 0.65 0.66 0.65 0.66 0.66	0.65 0.68 0.69 0.7 0.72 0.72 0.72 0.66 0.66 0.66 0.66 0.65 0.65 0.67 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.	0.66 0.66 0.67 0.69 0.7 0.71 0.72 0.72 0.67 0.67 0.66 0.66 0.66 0.66 0.7 0.7 0.71 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72	0.67 0.67 0.68 0.69 0.7 0.71 0.72 0.72 0.72 0.68 0.69 0.67 0.67 0.67 0.67 0.67 0.67 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.73 0.74 0.75 0	0.7 0.7 0.71 0.71 0.72 0.73 0.74 0.74 0.74 0.71 0.69 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7	0.73 0.73 0.74 0.74 0.75 0.76 0.76 0.76 0.76 0.74 0.72 0.72 0.73 0.73 0.74 0.73 0.74 0.75 0.76 0.77 0.72 0.73 0.73 0.74 0.74 0.75 0.76 0.76 0.76 0.76 0.76 0.76 0.77 0.77 0.77 0.73 0.74 0.76 0.76 0.76 0.76 0.76 0.76 0.77 0.76	0.75 0.76 0.76 0.77 0.76 0.77 0.76 0.76 0.76	0.73 0.73 0.74 0.74 0.75 0.76 0.76 0.76 0.76 0.74 0.72 0.72 0.73 0.73 0.74 0.73 0.74 0.76 0.77 0.72 0.73 0.74 0.74 0.75 0.76 0.76 0.76 0.76 0.76 0.77 0.77 0.77 0.77 0.77 0.77 0.77 0.77 0.77 0.77 0.77 0.77 0.77 0.77 0.77 0.76 0.76 0.76 0.76 0.76 0.76 0.77 0.77 0.77 0.77 0.77 0.77 0.77 0.77 0.77 0.77 0.77 0.77 0.77 0.76 0.77 0.77 0.77 0.77 0.76	0.67 0.67 0.68 0.69 0.7 0.7 0.71 0.72 0.72 0.68 0.67 0.67 0.67 0.67 0.67 0.69 0.7 0.71 0.72 0.72 0.72 0.72 0.72 0.72 0.73 0.68 0.69 0.69 0.7 0.71 0.72 0.72 0.73 0.68 0.67 0.67 0.67 0.67 0.67 0.67 0.67 0.67 0.67 0.68 0.69 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7
1007 1008 1009 1010 1011 1012 1013 1014 1101 1103 1104 1105 1106 1107 1108 1109 1110 1111 1111 1111 1111 1111	0.71 0.71 0.72 0.72 0.73 0.74 0.74 0.74 0.71 0.68 0.69 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7	0.67 0.68 0.69 0.7 0.7 0.71 0.72 0.72 0.67 0.67 0.67 0.67 0.69 0.7 0.72 0.72 0.68 0.69 0.7 0.67 0.69 0.7 0.70 0.71 0.72 0.72 0.72 0.72 0.73	0.66 0.67 0.69 0.7 0.71 0.72 0.72 0.72 0.66 0.67 0.66 0.66 0.66 0.67 0.70 0.71 0.72 0.72 0.72 0.66 0.66 0.67 0.67 0.70 0.70 0.71 0.72 0.72 0.72 0.72 0.72 0.73	0.65 0.68 0.69 0.7 0.7 0.72 0.72 0.72 0.64 0.66 0.65 0.65 0.65 0.67 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.	0.59 0.6 0.63 0.64 0.66 0.65 0.68 0.68 0.68 0.61 0.61 0.61 0.65 0.68 0.68 0.69 0.69 0.69 0.69 0.69 0.69 0.69 0.69	0.65 0.68 0.69 0.7 0.7 0.72 0.72 0.72 0.66 0.66 0.66 0.65 0.65 0.65 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7	0.66 0.66 0.67 0.69 0.7 0.71 0.72 0.72 0.67 0.67 0.66 0.67 0.66 0.67 0.70 0.71 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.67 0.67 0.67 0.66 0.67 0.69 0.7 0.71 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72	0.67 0.67 0.68 0.69 0.7 0.71 0.72 0.72 0.72 0.68 0.69 0.67 0.67 0.67 0.67 0.67 0.67 0.69 0.70 0.71 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.73 0.74 0.75 0	0.7 0.7 0.71 0.71 0.72 0.73 0.74 0.74 0.74 0.71 0.71 0.71 0.71 0.71 0.72 0.72 0.73 0.74 0.74 0.71 0.71 0.72 0.72 0.73 0.74 0.74 0.71 0.72 0.72 0.73 0.74 0.74 0.75 0.76 0.77 0.71 0.71 0.72 0.72 0.73 0.74 0.74 0.71 0.72 0.72 0.73 0.74 0.74 0.75 0.	0.73 0.73 0.74 0.74 0.75 0.76 0.76 0.76 0.76 0.76 0.77 0.72 0.73 0.73 0.74 0.73 0.74 0.75 0.76 0.77 0.72 0.73 0.73 0.74 0.74 0.74 0.74 0.75 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.77 0.73 0.74 0.75 0.76 0.76 0.76 0.76 0.76 0.76 0.77 0.77 0.73 0.74 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.77 0.77 0.73 0.74 0.76	0.75 0.75 0.76 0.75 0.76 0.77 0.76 0.76 0.76 0.76 0.76 0.76	0.73 0.73 0.74 0.74 0.76 0.76 0.76 0.76 0.76 0.76 0.77 0.74 0.72 0.73 0.73 0.74 0.74 0.75 0.76 0.77 0.73 0.73 0.74 0.74 0.74 0.75 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.77 0.77 0.73 0.74 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.77 0.77 0.77 0.77 0.77 0.77 0.77 0.77 0.77 0.76	0.67 0.67 0.68 0.69 0.7 0.7 0.7 0.72 0.72 0.68 0.69 0.67 0.67 0.67 0.67 0.67 0.67 0.67 0.72 0.68 0.69 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7
1007 1008 1009 1010 1011 1012 1013 1014 1101 1102 1103 1104 1105 1106 1107 1108 1109 1110 1111 1111 1111 1112 1201 1202 1203	0.71 0.71 0.72 0.72 0.73 0.74 0.74 0.74 0.71 0.68 0.69 0.7 0.7 0.7 0.71 0.71 0.72 0.73 0.74 0.74 0.71 0.71 0.72 0.73 0.74 0.74 0.71 0.71 0.71 0.72 0.73 0.74 0.74 0.71 0.71 0.71 0.71 0.72 0.73 0.74 0.74 0.71 0.71 0.71 0.72 0.73 0.74 0.74 0.71 0.71 0.71 0.72 0.73 0.74 0.74 0.75 0.7	0.67 0.68 0.69 0.7 0.7 0.71 0.72 0.72 0.72 0.67 0.67 0.67 0.67 0.69 0.7 0.71 0.72 0.72 0.69 0.7 0.69 0.7 0.71 0.72 0.72 0.68 0.69 0.7 0.71 0.72 0.72 0.72 0.68 0.67 0.67 0.68	0.66 0.67 0.69 0.7 0.71 0.72 0.72 0.72 0.66 0.67 0.66 0.67 0.69 0.7 0.71 0.72 0.72 0.66 0.67 0.69 0.7 0.71 0.72 0.72 0.72 0.72 0.72 0.73	0.65 0.68 0.69 0.7 0.7 0.7 0.72 0.72 0.72 0.66 0.66 0.65 0.65 0.65 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7	0.59 0.63 0.64 0.65 0.68 0.68 0.68 0.68 0.69 0.69 0.69 0.69 0.69 0.69 0.69 0.69	0.65 0.68 0.69 0.7 0.7 0.7 0.72 0.72 0.72 0.66 0.66 0.65 0.65 0.65 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7	0.66 0.66 0.67 0.69 0.7 0.71 0.72 0.72 0.72 0.67 0.67 0.66 0.67 0.67 0.70 0.71 0.72 0.72 0.72 0.73 0.67 0.67 0.66 0.67 0.67 0.71 0.72 0.72 0.72 0.72 0.73 0.74 0.75 0.75 0.75 0.76 0.77 0.77 0.77 0.77 0.77 0.77 0.77	0.67 0.67 0.68 0.69 0.7 0.71 0.72 0.72 0.72 0.68 0.68 0.67 0.67 0.67 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.	0.7 0.7 0.71 0.71 0.72 0.73 0.74 0.74 0.74 0.71 0.71 0.71 0.69 0.69 0.7 0.72 0.72 0.73 0.74 0.74 0.71 0.71 0.72 0.72 0.72 0.72 0.73 0.74 0.74 0.74 0.74 0.74 0.71 0.71 0.72 0.72 0.73 0.74 0.74 0.74 0.74 0.74 0.75 0.76 0.77 0.7	0.73 0.73 0.74 0.74 0.75 0.76 0.76 0.76 0.76 0.76 0.77 0.72 0.72 0.73 0.74 0.74 0.74 0.74 0.75 0.76 0.77 0.77 0.77 0.77 0.77 0.77 0.77 0.77 0.77 0.76 0.76 0.76 0.76 0.76 0.77	0.75 0.75 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76	0.73 0.73 0.74 0.74 0.75 0.76 0.76 0.76 0.76 0.76 0.77 0.72 0.72 0.73 0.74 0.74 0.74 0.74 0.75 0.76 0.77 0.72 0.73 0.74 0.74 0.74 0.74 0.74 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.77 0.77 0.77 0.77 0.77 0.77 0.76 0.77	0.67 0.67 0.68 0.69 0.7 0.7 0.71 0.72 0.72 0.72 0.68 0.68 0.67 0.67 0.67 0.67 0.69 0.7 0.71 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.68 0.69 0.67 0.67 0.67 0.69 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7
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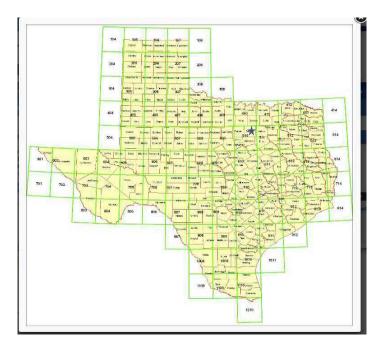
Dove Pond (Golf Course Pond) Water Accounting Record TWDB Evap Tab

EVAP DATA SOURCE: https://waterdatafortexas.org/lake-evaporation-rainfall

Texas Water Development Board

Monthly lake surface evaporation in inches	, annual total evaporation in inches
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Name	554	1.52 2.02 2.61 1.52 2.03 2.00 1.85 1.87 1.54 1.61 1.75 2.28 2.35 1.84 2.92 1.03 2.07 1.41 3.05 1.81 1.81 1.87 1.20 3.66 1.62 2.15 1.88 1.81 1.87 2.20 3.66 1.62 2.11 2.03 1.88 1.81 1.82 2.03 3.66 1.82 2.11 1.82 2.03 1.88 1.81 1.82 2.03 3.66 1.82 2.11 1.82 1.82 1.82 1.82 1.83 1.83 1.83 1.83 1.83 1.83 1.83 1.83	FEB 4.47 2.52 2.67 1.86 2.08 2.09 2.56 2.08 2.30 2.36 2.30 2.36 2.32 1.83 3.14 1.93 2.30 2.33 3.34 2.30 2.34 2.30 2.34 2.30 2.34 2.30 2.36 2.22 1.38 3.31 2.30 2.31 2.30 2.31 2.30 2.31 2.30 2.31 2.32 2.32 2.33 2.33 2.33 2.33 2.33	MAR 5.36 4.45 5.57 3.21 2.66 5.75 3.46 4.63 4.59 4.83 4.25 2.92 4.48 3.28 3.14 2.97 5.51 4.18 3.28 4.61 3.29 4.48 3.28 4.48 3.28 4.48 3.29 4.48 3.31 4.31 4.31 4.31 4.31 4.31 4.31 4.31	APR 6.19 5.85 6.00 3.03 4.07 5.13 5.40 5.55 4.22 5.39 4.82 4.81 5.10 4.09 5.78 5.78 5.78 5.78 5.78 5.78 5.78 5.78	MAY 4.86 6.12 6.92 3.72 4.81 5.18 6.29 5.84 6.95 4.96 6.95 4.96 5.78 4.29 5.78 4.33 4.41 4.91 6.03 5.11 5.52 3.57 4.63	9.58 7.12 9.20 6.29 7.66 6.36 6.36 6.36 7.72 5.83 7.29 7.68 6.41 6.62 7.70 5.70 5.70 6.54 8.19 7.30 5.45 7.83 6.41	JUL 11.25 8.94 11.41 9.21 9.46 6.60 7.70 6.60 7.59 9.14 10.18 9.03 7.82 7.65 6.96 9.61 8.25 8.99 8.17 6.85	AUG 11.21 8.03 11.42 9.45 8.42 8.36 7.35 7.42 8.05 8.63 8.31 7.93 6.33 8.33 7.77 7.16 8.55 7.55 7.55 7.77	\$EP 9.06 7.05 7.05 9.26 6.06 5.31 6.56 6.99 7.11 4.24 4.70 5.63 4.91 5.51 5.58 5.67 4.89	5.86 6.39 6.56 3.91 3.71 4.48 4.54 4.77 4.60 6.33 4.54 4.21 4.58 5.07 4.55 4.07 3.71 4.78	NOV 3.78 4.92 3.95 2.22 3.44 3.18 3.54 2.77 2.74 3.84 2.93 2.66 4.01 2.81 3.20 2.89 3.68 3.42	3.06 3.07 2.91 2.19 2.48 1.86 1.97 1.87 1.77 2.18 2.07 2.18 2.09 1.92 3.26 1.92	ANNUA 76.20 76.20 78.64 53.90 55.81 58.27 59.28 56.66 62.23 60.37 54.99 52.72 60.07 60.07 55.41 55.56
\$10 1955 510 1955 510 1955 510 1957 510	555 566 577 588 599 600 611 622 633 644 655 666 677 670 771 772 773 774 775 776 777 778	2.02 2.61 2.03 2.00 1.85 1.87 1.54 1.61 1.75 2.28 2.35 1.87 2.29 2.92 1.41 3.05 1.88 1.81 1.87 2.27 1.41 2.27 1.41 2.27 1.41 2.27 1.41 2.27 1.41 2.27 1.41 2.27 1.41 2.27 1.41 1.41 1.41 1.41 1.41 1.41 1.41 1.4	2.52 2.67 1.86 2.08 2.09 2.56 3.48 2.30 2.36 2.36 2.32 1.83 3.14 1.93 2.30 2.33 3.56 2.84 2.90 3.62 2.22 1.83 3.49 1.93 2.30 2.30 2.30 2.30 2.30 2.30 2.30 2.3	4.45 5.57 3.21 2.66 5.75 3.46 4.63 4.63 4.25 2.92 4.48 3.28 3.14 2.97 5.75 5.11 4.18 4.61 3.24 4.81 4.81 4.81 4.81 4.81 4.81 4.81 4.8	5.85 6.00 3.03 4.07 5.13 5.40 5.55 4.22 5.39 4.82 4.89 4.81 5.10 4.09 4.46 4.09 5.78 5.78 5.78 5.78 4.07 4.07	6.12 6.92 3.72 4.81 5.18 6.29 5.84 6.95 4.96 4.75 3.49 4.28 5.78 4.31 4.91 6.03 5.11 5.51 4.91 6.03 5.11 5.51 6.03	7.12 9.20 6.29 7.66 6.36 7.72 5.83 5.59 7.29 7.68 6.41 6.62 7.70 5.70 7.70 5.70 6.54 8.19 7.30 5.45 7.83 6.41	8.94 11.41 9.21 9.46 6.85 7.70 6.60 7.59 9.14 10.18 9.03 7.82 7.69 6.96 9.61 8.25 8.99 8.17 6.85	8.03 11.42 9.45 8.42 8.36 7.35 7.42 8.05 8.63 8.31 7.93 6.33 8.33 7.77 7.16 8.54 5.52 7.60 7.27	7.05 9.26 6.06 5.31 6.56 6.99 7.11 5.19 6.00 5.92 7.11 4.24 4.70 5.63 4.91 5.51 5.51 5.58	6.39 6.56 3.91 3.71 4.48 4.54 4.77 4.60 6.33 4.54 4.21 4.58 5.07 4.87 4.55 4.07 3.77 4.78	4.92 3.95 2.22 3.44 3.18 3.54 2.77 2.74 3.84 2.93 2.66 4.01 3.20 2.89 3.42	2.92 3.07 2.91 2.19 2.48 1.86 1.97 1.87 1.77 2.35 1.77 2.18 2.07 2.58 2.07 2.58	66.33 78.64 53.90 55.81 58.27 59.28 56.66 56.48 62.23 60.37 54.99 52.72 60.07 51.45 55.41
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\$10 1980 1980 1981 198	60 61 61 62 62 63 63 64 65 66 66 67 70 71 72 72 73 74 75 76 77 77 77 8 79	1.87 1.54 1.61 1.75 2.28 2.35 1.54 2.92 1.03 2.27 1.41 3.05 1.88 1.81 1.87 2.20 3.66 1.62 2.11 2.03	2.56 2.63 3.48 2.30 2.36 2.22 1.83 3.14 1.93 2.30 2.33 3.56 2.22 2.33 3.59 2.39 2.39 2.21 3.84 2.99 2.21 3.84 2.99 2.21 3.84 2.99 2.21 3.84 2.99 2.99 2.99 2.99 2.99 2.99 2.99 2.9	3.46 4.63 4.59 4.83 4.25 2.92 4.46 3.28 3.14 2.97 5.75 5.11 4.18 4.61 3.24 4.81 4.82 4.83 3.64 3.64 3.64 3.64 3.64 3.64 3.64 3.6	5.40 5.55 4.22 5.39 4.89 4.81 5.10 4.09 4.46 4.09 5.78 3.57 5.97 3.67 4.07 4.69 5.48	6.29 5.84 6.95 4.96 4.75 3.49 4.28 5.78 4.33 4.41 4.91 6.03 5.11 5.11 5.52 3.57 4.63	7.72 5.83 5.59 7.29 7.68 6.41 6.62 7.02 5.78 7.79 6.54 8.19 7.30 5.45 7.83 6.41	7.70 6.60 7.59 9.14 10.18 9.03 7.82 7.65 6.96 9.61 8.25 8.99 8.17 6.85 9.35	7.35 7.42 8.05 8.63 8.31 7.93 6.33 8.33 7.77 7.16 8.54 5.52 7.60 7.27	6.99 7.11 5.19 6.00 5.92 7.11 4.24 4.70 5.63 4.91 5.51 5.58 5.67	4.54 4.77 4.60 6.33 4.54 4.21 4.58 5.07 4.87 4.55 4.07 3.77 4.78	3.54 2.77 2.74 3.84 2.93 2.66 4.01 2.81 3.20 2.89 3.68 3.42	1.86 1.97 1.87 1.77 2.35 1.77 2.18 2.07 2.58 1.92 3.26	59.28 56.66 56.48 62.23 60.37 54.99 52.72 60.07 51.45 55.41
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510 1962 510 1963 510 1964 510 1965 510 1965 510 1967 510 1967 510 1968 510 1968 510 1969 510 1969 510 1969 510 1970 510 1971 510 1972 510 1973 510 1973 510 1973 510 1973 510 1974 510 1975 510 1978 510 1978 510 1978 510 1978 510 1978 510 1978 510 1989 510 1999 510 1995 510 1995 510 1995 510 1996 510 1997 510 1998 510 1999 510 1999 510 1995 510 2005 510 2005	62 63 64 65 66 67 68 69 70 71 72 73 74 75 77 77 78	1.61 1.75 2.28 2.35 1.54 2.92 1.03 2.27 1.41 3.05 1.88 1.81 1.87 2.20 3.66 1.62 2.11 2.03	3.48 2.30 2.36 2.22 1.83 3.14 1.93 2.30 2.33 3.56 2.84 2.09 3.62 2.21 3.84 2.92 1.38 1.74 2.75 2.17 2.75 2.17	4.59 4.83 4.25 2.92 4.48 5.48 3.28 3.14 2.97 5.75 5.11 4.18 4.61 3.24 4.81 4.22 4.48 3.67 3.96	4.22 5.39 4.82 4.89 4.81 5.10 4.09 4.46 4.09 5.78 5.78 3.57 5.97 3.67 4.07	6.95 4.96 4.75 3.49 4.28 5.78 4.33 4.41 4.91 6.03 5.11 5.11 5.52 3.57 4.63	5.59 7.29 7.68 6.41 6.62 7.02 5.78 7.79 6.54 8.19 7.30 5.45 7.83 6.41	7.59 9.14 10.18 9.03 7.82 7.65 6.96 9.61 8.25 8.99 8.17 6.85 9.35	8.05 8.63 8.31 7.93 6.33 8.33 7.77 7.16 8.54 5.52 7.60 7.27	5.19 6.00 5.92 7.11 4.24 4.70 5.63 4.91 5.51 5.58 5.67	4.60 6.33 4.54 4.21 4.58 5.07 4.87 4.55 4.07 3.77 4.78	2.74 3.84 2.93 2.66 4.01 2.81 3.20 2.89 3.68 3.42	1.87 1.77 2.35 1.77 2.18 2.07 2.58 1.92 3.26	56.48 62.23 60.37 54.99 52.72 60.07 51.45 55.41 55.56
510 1983 510 1984 510 1985 510 1987 510 1987 510 1987 510 1988 510 1989 510 2000 510 2005 510 2005 510 2005 510 2005 510 2005 510 2005 510 2005 510 2005 510 2005 510 2005 510 2005 510 2005 510 2005 510 2015	63 64 65 65 66 66 67 68 68 69 70 71 72 73 74 75 76 777 778 779	1.75 2.28 2.35 1.54 2.92 1.03 2.27 1.41 3.05 1.88 1.81 1.87 2.20 3.66 1.62 2.11 2.03	2 30 2 36 2 22 1.83 3.14 1.93 2 30 2 33 3.56 2.84 2 09 3.62 2 21 3.84 2.92 1.38 1.74 2.75 2.17 2.61	4.83 4.25 2.92 4.48 5.48 3.28 3.14 2.97 5.75 5.11 4.18 4.61 3.24 4.81 4.22 4.48 3.67 3.96	5.39 4.82 4.89 4.81 5.10 4.09 4.46 4.09 5.78 5.78 3.57 3.67 4.07 4.07	4.96 4.75 3.49 4.28 5.78 4.33 4.41 4.91 6.03 5.11 5.11 5.52 3.57 4.63	7.29 7.68 6.41 6.62 7.02 5.78 7.79 6.54 8.19 7.30 5.45 7.83 6.41	9.14 10.18 9.03 7.82 7.65 6.96 9.61 8.25 8.99 8.17 6.85 9.35	8.63 8.31 7.93 6.33 8.33 7.77 7.16 8.54 5.52 7.60 7.27	6.00 5.92 7.11 4.24 4.70 5.63 4.91 5.51 5.58 5.67	6.33 4.54 4.21 4.58 5.07 4.87 4.55 4.07 3.77 4.78	3.84 2.93 2.66 4.01 2.81 3.20 2.89 3.68 3.42	1.77 2.35 1.77 2.18 2.07 2.58 1.92 3.26	62.23 60.37 54.99 52.72 60.07 51.45 55.41
510 1984 510 1985 510 1986 510 1986 510 1987 510 1987 510 1987 510 1987 510 1987 510 1970 510 1971 510 1972 510 1973 510 1973 510 1973 510 1975 510 1975 510 1976 510 1978 510 1978 510 1978 510 1978 510 1980 510 1990 510 2000 510 2000 510 2005 510 2005 510 2005 510 2005 510 2005 510 2005 510 2005 510 2005 510 2005 510 2005	64 655 66 68 659 770 771 772 773 774 775 776 777 778 779	2.28 2.35 1.54 2.92 1.03 2.27 1.41 3.05 1.88 1.81 1.87 2.20 3.66 1.62 2.11 2.03	2.36 2.22 1.83 3.14 1.93 2.30 2.33 3.56 2.84 2.09 3.62 2.21 3.84 2.92 1.38 1.74 2.75 2.17	4.25 2.92 4.48 5.48 3.28 3.14 2.97 5.75 5.11 4.18 4.61 3.24 4.81 4.22 4.48 3.67 3.96	4.82 4.89 4.81 5.10 4.09 4.46 4.09 5.78 5.78 3.57 5.97 3.67 4.07 4.69 5.48	4.75 3.49 4.28 5.78 4.33 4.41 4.91 6.03 5.11 5.11 5.52 3.57 4.63	7.68 6.41 6.62 7.02 5.78 7.79 6.54 8.19 7.30 5.45 7.83 6.41	10.18 9.03 7.82 7.65 6.96 9.61 8.25 8.99 8.17 6.85 9.35	8.31 7.93 6.33 8.33 7.77 7.16 8.54 5.52 7.60 7.27	5.92 7.11 4.24 4.70 5.63 4.91 5.51 5.58 5.67	4.54 4.21 4.58 5.07 4.87 4.55 4.07 3.77 4.78	2.93 2.66 4.01 2.81 3.20 2.89 3.68 3.42	2.35 1.77 2.18 2.07 2.58 1.92 3.26	60.37 54.99 52.72 60.07 51.45 55.41 55.56
510 1966 510 1966 510 1967 510 1968 510 1968 510 1968 510 1969 510 1970 510 1971 510 1973 510 1973 510 1973 510 1973 510 1973 510 1975 510 1975 510 1975 510 1977 510 1977 510 1978 510 1978 510 1978 510 1978 510 1978 510 1978 510 1978 510 1978 510 1980 510 2000 510 2000	655 666 677 688 699 70 71 71 72 73 74 75 76	2.35 1.54 2.92 1.03 2.27 1.41 3.05 1.88 1.81 1.87 2.20 3.66 1.62 2.11 2.03 1.86	2.22 1.83 3.14 1.93 2.30 2.33 3.56 2.84 2.09 3.62 2.21 3.84 2.92 1.38 1.74 2.75 2.17	2.92 4.48 5.48 3.28 3.14 2.97 5.75 5.11 4.18 4.61 3.24 4.81 4.22 4.48 3.67 3.96	4.89 4.81 5.10 4.09 4.46 4.09 5.78 5.78 3.57 5.97 3.67 4.07 4.69 5.48	3.49 4.28 5.78 4.33 4.41 4.91 6.03 5.11 5.11 5.52 3.57 4.63	6.41 6.62 7.02 5.78 7.79 6.54 8.19 7.30 5.45 7.83 6.41	9.03 7.82 7.65 6.96 9.61 8.25 8.99 8.17 6.85 9.35	7.93 6.33 8.33 7.77 7.16 8.54 5.52 7.60 7.27	7.11 4.24 4.70 5.63 4.91 5.51 5.58 5.67	4.21 4.58 5.07 4.87 4.55 4.07 3.77 4.78	2.66 4.01 2.81 3.20 2.89 3.68 3.42	1.77 2.18 2.07 2.58 1.92 3.26	54.99 52.72 60.07 51.45 55.41 55.56
510 1967 510 1988 510 1989 510 1990 510 1970 510 1971 510 1972 510 1973 510 1973 510 1973 510 1973 510 1973 510 1973 510 1978 510 1978 510 1978 510 1978 510 1978 510 1978 510 1978 510 1980 510 2000 510 2000	667 668 669 670 771 772 773 774 775 776 777 778	2.92 1.03 2.27 1.41 3.05 1.88 1.81 1.87 2.20 3.66 1.62 2.11 2.03 1.86	3.14 1.93 2.30 2.33 3.56 2.84 2.09 3.62 2.21 3.84 2.92 3.84 2.92 2.17 2.75 2.17	5.48 3.28 3.14 2.97 5.75 5.11 4.18 4.61 3.24 4.81 4.22 4.48 3.67 3.96	5.10 4.09 4.46 4.09 5.78 5.78 3.57 5.97 3.67 4.07 4.69 5.48	5.78 4.33 4.41 4.91 6.03 5.11 5.11 5.52 3.57 4.63	7.02 5.78 7.79 6.54 8.19 7.30 5.45 7.83 6.41	7.65 6.96 9.61 8.25 8.99 8.17 6.85 9.35	8.33 7.77 7.16 8.54 5.52 7.60 7.27	4.70 5.63 4.91 5.51 5.58 5.67	5.07 4.87 4.55 4.07 3.77 4.78	2.81 3.20 2.89 3.68 3.42	2.07 2.58 1.92 3.26	60.07 51.45 55.41 55.56
\$10 1988 1981 1982 1982 1983 1989 1984 1989 1989 1989 1989 1989 1989 1988 198	68 69 70 71 72 73 74 75 76 77 78	1.03 2.27 1.41 3.05 1.88 1.81 1.87 2.20 3.66 1.62 2.11 2.03 1.86	3.14 1.93 2.30 2.33 3.56 2.84 2.09 3.62 2.21 3.84 2.92 3.84 2.92 2.17 2.75 2.17	3.28 3.14 2.97 5.75 5.11 4.18 4.61 3.24 4.81 4.22 4.48 3.67 3.96	5.10 4.09 4.46 4.09 5.78 5.78 3.57 5.97 3.67 4.07 4.69 5.48	4.33 4.41 4.91 6.03 5.11 5.11 5.52 3.57 4.63	7.02 5.78 7.79 6.54 8.19 7.30 5.45 7.83 6.41	7.65 6.96 9.61 8.25 8.99 8.17 6.85 9.35	8.33 7.77 7.16 8.54 5.52 7.60 7.27	4.70 5.63 4.91 5.51 5.58 5.67	5.07 4.87 4.55 4.07 3.77 4.78	3.20 2.89 3.68 3.42	2.58 1.92 3.26	60.07 51.45 55.41 55.56
\$10 1989 \$10 1970 \$10 1971 \$10 1972 \$10 1971 \$10 1972 \$10 1973 \$10 1973 \$10 1973 \$10 1973 \$10 1974 \$10 1975 \$10 1976 \$10 1977 \$10 1977 \$10 1977 \$10 1977 \$10 1978 \$10 1978 \$10 1978 \$10 1978 \$10 1978 \$10 1982 \$10 1982 \$10 1983 \$10 1984 \$10 1985 \$10 1986 \$10 1987 \$10 1987 \$10 1988 \$10 1988 \$10 1988 \$10 1988 \$10 1989 \$10 2000 \$10 2005 \$10 2005 \$10 2005 \$10 2006 \$10 2007 \$10 2008 \$10 2009 \$10 2009 \$10 2009	69 70 71 72 73 74 75 76 77 78	2.27 1.41 3.05 1.88 1.81 1.87 2.20 3.66 1.62 2.11 2.03 1.86	2.30 2.33 3.56 2.84 2.09 3.62 2.21 3.84 2.92 1.38 1.74 2.75 2.17 2.61	3.14 2.97 5.75 5.11 4.61 3.24 4.81 4.22 4.48 3.67 3.96	4.46 4.09 5.78 5.78 3.57 5.97 3.67 4.07 4.69 5.48	4.41 4.91 6.03 5.11 5.11 5.52 3.57 4.63	7.79 6.54 8.19 7.30 5.45 7.83 6.41	9.61 8.25 8.99 8.17 6.85 9.35	7.16 8.54 5.52 7.60 7.27	4.91 5.51 5.58 5.67	4.55 4.07 3.77 4.78	2.89 3.68 3.42	1.92 3.26	55.41 55.56
510 19869 510 1970 510 1971 510 1972 510 1972 510 1973 510 1973 510 1975 510 1976 510 1977 510 1977 510 1977 510 1978 510 1978 510 1978 510 1989 510 1989 510 1988 510 1988 510 1988 510 1988 510 1988 510 1988 510 1989 510 2000 510 2000 510 2005	69 70 71 72 73 74 75 76 77 78	2.27 1.41 3.05 1.88 1.81 1.87 2.20 3.66 1.62 2.11 2.03 1.86	2.30 2.33 3.56 2.84 2.09 3.62 2.21 3.84 2.92 1.38 1.74 2.75 2.17 2.61	2.97 5.75 5.11 4.18 4.61 3.24 4.81 4.22 4.48 3.67 3.96	4.09 5.78 5.78 3.57 5.97 3.67 4.07 4.69 5.48	4.91 6.03 5.11 5.11 5.52 3.57 4.63	7.79 6.54 8.19 7.30 5.45 7.83 6.41	9.61 8.25 8.99 8.17 6.85 9.35	8.54 5.52 7.60 7.27	4.91 5.51 5.58 5.67	4.07 3.77 4.78	3.68 3.42	1.92 3.26	55.56
510 1970 510 1971 510 1971 510 1972 510 1972 510 1973 510 1974 510 1976 510 1976 510 1976 510 1976 510 1978 510 1978 510 1978 510 1978 510 1978 510 19881 510 19881 510 19885 510 19885 510 19885 510 19887 510 19887 510 19887 510 19887 510 19887 510 19887 510 19887 510 19887 510 19887 510 19898 510 19990 510 19990 510 19990 510 19990 510 19990 510 19990 510 19990 510 19990 510 1997 510 1998 510 19990 510 19990 510 19990 510 19990 510 19990 510 1990 510 20001	70 71 72 73 74 75 76 77 78	3.05 1.88 1.81 1.87 2.20 3.66 1.62 2.11 2.03 1.86	2.33 3.56 2.84 2.09 3.62 2.21 3.84 2.92 1.38 1.74 2.75 2.17 2.61	2.97 5.75 5.11 4.18 4.61 3.24 4.81 4.22 4.48 3.67 3.96	4.09 5.78 5.78 3.57 5.97 3.67 4.07 4.69 5.48	6.03 5.11 5.11 5.52 3.57 4.63	8.19 7.30 5.45 7.83 6.41	8.99 8.17 6.85 9.35	5.52 7.60 7.27	5.58 5.67	4.07 3.77 4.78	3.68 3.42		55.56
510 1972 510 1973 510 1974 510 1975 510 1975 510 1976 510 1976 510 1977 510 1977 510 1978 510 1980 510 1990 510 2000 510 2000 510 2005 510 2005	72 73 74 75 76 77 78	1.88 1.81 1.87 2.20 3.66 1.62 2.11 2.03 1.86	2.84 2.09 3.62 2.21 3.84 2.92 1.38 1.74 2.75 2.17 2.61	5.11 4.18 4.61 3.24 4.81 4.22 4.48 3.67 3.96	5.78 3.57 5.97 3.67 4.07 4.69 5.48	5.11 5.11 5.52 3.57 4.63	7.30 5.45 7.83 6.41	8.17 6.85 9.35	7.60 7.27	5.67	4.78	3.42	2.15	61.79
510 1973 510 1974 510 1976 510 1976 510 1976 510 1976 510 1977 510 1977 510 1978 510 1978 510 1980 510 1981 510 1981 510 1982 510 1988 510 1988 510 1988 510 1988 510 1988 510 1988 510 1988 510 1988 510 1988 510 1989 510 1989 510 1989 510 1989 510 1999 510 1999 510 1999 510 1999 510 1999 510 1999 510 1999 510 1999 510 1995 510 1995 510 1995 510 1995 510 1995 510 1995 510 2005 510 2005 510 2005 510 2005 510 2005 510 2005 510 2005 510 2005 510 2005 510 2005 510 2005 510 2005 510 2005 510 2006 510 2007 510 2007 510 2008	73 74 75 76 77 78	1.81 1.87 2.20 3.66 1.62 2.11 2.03 1.86	2.09 3.62 2.21 3.84 2.92 1.38 1.74 2.75 2.17 2.61	4.18 4.61 3.24 4.81 4.22 4.48 3.67 3.96	3.57 5.97 3.67 4.07 4.69 5.48	5.11 5.52 3.57 4.63	5.45 7.83 6.41	6.85 9.35	7.27			0.05		
510 1974 510 1975 510 1976 510 1976 510 1977 510 1977 510 1978 510 1978 510 1978 510 1980 510 1980 510 1980 510 1980 510 1980 510 1980 510 1982 510 1988 510 1988 510 1988 510 1988 510 1988 510 1988 510 1998 510 1999 510 1999 510 1999 510 1999 510 1999 510 1999 510 1999 510 1999 510 1997 510 1998 510 1999 510 1997 510 1996 510 1997 510 1997 510 1998 510 1999 510 1996 510 1997 510 1998 510 1999 510 1995 510 1996 510 1997 510 1998 510 1998 510 1999 510 1996 510 1997 510 1998 510 1998 510 1998 510 2000 510 2005 510 2005	74 75 76 77 78 79	1.87 2.20 3.66 1.62 2.11 2.03 1.86	3.62 2.21 3.84 2.92 1.38 1.74 2.75 2.17 2.61	4.61 3.24 4.81 4.22 4.48 3.67 3.96	5.97 3.67 4.07 4.69 5.48	5.52 3.57 4.63	7.83 6.41	9.35		4.89		2.65	1.69	58.58
510 1975 510 1976 510 1977 510 1977 510 1978 510 1978 510 1978 510 1978 510 1989 510 1981 510 1982 510 1983 510 1984 510 1988 510 1988 510 1988 510 1988 510 1988 510 1988 510 1989 510 1989 510 1989 510 1999 510 1999 510 1999 510 1999 510 1999 510 2000 510 2005	75 76 77 78 79	2.20 3.66 1.62 2.11 2.03 1.86	2.21 3.84 2.92 1.38 1.74 2.75 2.17 2.61	3.24 4.81 4.22 4.48 3.67 3.96	5.97 3.67 4.07 4.69 5.48	3.57 4.63	6.41				3.64	3.28	2.96	51.10
510 1976 510 1977 510 1978 510 1978 510 1978 510 1980 510 1990 510 2000 510 2000 510 2005 510 2005	76 77 78 79	3.66 1.62 2.11 2.03 1.86	3.84 2.92 1.38 1.74 2.75 2.17 2.61	4.81 4.22 4.48 3.67 3.96	4.07 4.69 5.48	4.63			6.63	3.47	3.81	2.55	1.97	57.20
510 1977 510 1978 510 1978 510 1978 510 1980 510 1980 510 1980 510 1981 510 1982 510 1983 510 1983 510 1985 510 1985 510 1987 510 1987 510 1987 510 1989 510 1989 510 1990 510 2000 510 2000 510 2005 510 2005	77 78 79	1.62 2.11 2.03 1.86	2.92 1.38 1.74 2.75 2.17 2.61	4.22 4.48 3.67 3.96	4.69 5.48			6.50	6.37	5.41	5.20	3.97	1.94	50.69
510 1978 510 1980 510 1980 510 1980 510 1980 510 1980 510 1982 510 1983 510 1983 510 1983 510 1983 510 1983 510 1983 510 1986 510 1986 510 1988 510 1988 510 1988 510 1993 510 1993 510 1993 510 1993 510 1993 510 1993 510 1993 510 1993 510 1993 510 1993 510 1993 510 1993 510 1993 510 1993 510 1993 510 1995 510 1995 510 1996 510 2001 510 2005	78 79	2.11 2.03 1.86	1.38 1.74 2.75 2.17 2.61	4.48 3.67 3.96	5.48	1 111	6.48	5.78	7.13	4.90	3.25	2.14	2.28	52.97
510 1989 510 1980 510 1981 510 1981 510 1982 510 1983 510 1983 510 1983 510 1983 510 1985 510 1986 510 1987 510 1988 510 1989 510 1989 510 1989 510 1999 510 2000 510 2005 510 2005	79	2.03 1.86	1.74 2.75 2.17 2.61	3.67 3.96			7.27	9.13	7.42	7.78	5.13	3.34	3.53	61.19
\$10 1980 1981 1981 1982 1910 1982 1910 1983 1910 1983 1910 1983 1910 1983 1910 1983 1910 1983 1910 1985 1910 1986 1910 1986 1910 1986 1910 1986 1910 1986 1910 1991 1910 1910 1910 1910 1910 191		1.86	2.75 2.17 2.61	3.96		5.35	7.59	9.93	8.24	5.18	5.78	2.67	2.61	60.80
510 1981 510 1982 510 1982 510 1983 510 1984 510 1985 510 1986 510 1986 510 1987 510 1987 510 1987 510 1989 510 1991 510 1991 510 1991 510 1992 510 1993 510 1993 510 1993 510 1993 510 1993 510 1993 510 1993 510 1995 510 2005 510 2005			2.17 2.61		4.16	4.30	6.55	7.26	6.55	6.02	6.43	2.85	1.97	53.53
510 1982 510 1983 510 1984 510 1985 510 1986 510 1986 510 1987 510 1988 510 1987 510 1988 510 1988 510 1989 510 1995 510 1995 510 1995 510 1995 510 1995 510 1995 510 1995 510 1995 510 2005 510 2005		1 01	2.61		5.39	4.67	8.86	10.97	9.78	6.98	5.41	3.44	2.21	66.28
510 1983 510 1984 510 1986 510 1986 510 1986 510 1987 510 1987 510 1987 510 1989 510 1991 510 1991 510 1992 510 1993 510 1993 510 1993 510 1993 510 1995 510 1995 510 1995 510 1995 510 1995 510 2005 510 2005				4.02	4.67	4.98	5.44	8.13	7.80	5.74	3.49	3.29	2.32	53.96
510 1984 510 1985 510 1986 510 1986 510 1987 510 1987 510 1988 510 1988 510 1989 510 1999 510 1999 510 1999 510 1999 510 1999 510 1999 510 1999 510 2003 510 2003 510 2005 510 2005		2.67		3.77	4.30	4.54	6.24	7.31	7.75	6.57	4.91	2.97	2.40	56.04
510 1985 510 1986 510 1987 510 1987 510 1988 510 1989 510 1989 510 1990 510 1991 510 1992 510 1993 510 1993 510 1993 510 1993 510 1993 510 1995 510 1995 510 1995 510 2000 510 2000 510 2005 510 2005		1.69	1.95	3.60	5.28	5.08	5.89	7.63	6.90	6.54	4.82	3.64	1.62	54.64
510 1986 510 1987 510 1988 510 1988 510 1989 510 1990 510 1990 510 1991 510 1991 510 1993 510 1993 510 1993 510 1995 510 1996 510 1997 510 1998 510 2000 510 2003 510 2005 510 2005		2.72	3.11	4.29	6.02	6.63	8.76	9.21	8.52	7.23	3.73	3.13	1.99	65.34
510 1987 510 1988 510 1988 510 1989 510 1990 510 1991 510 1992 510 1993 510 1993 510 1993 510 1993 510 1995 510 1996 510 1996 510 2000 510 2000 510 2005 510 2005		2.24	1.59	3.59	4.64	5.27	6.98	7.93	9.45	7.14	3.82	2.51	2.12	57.28
510 1988 510 1990 510 1990 510 1991 510 1991 510 1991 510 1992 510 1992 510 1993 510 1995 510 1995 510 1996 510 1997 510 1998 510 1998 510 2000 510 2003 510 2005 510 2005		2.85	2.65	4.77	4.75	4.67	5.88	9.27	7.38	5.64	3.96	2.59	1.47	55.88
\$10 1989 \$10 1990 \$10 1991 \$10 1991 \$10 1991 \$10 1992 \$10 1993 \$10 1993 \$10 1993 \$10 1994 \$10 1996 \$10 1996 \$10 1996 \$10 2000 \$10 2001 \$10 2001 \$10 2005 \$10 2005		1.96 2.47	2.05 2.97	3.50 4.91	5.81 5.77	4.47 6.17	5.64	7.65 8.19	8.94	5.69	5.79 4.41	3.05	2.17 2.44	56.72
510 1990 510 1991 510 1992 510 1992 510 1992 510 1993 510 1994 510 1995 510 1996 510 1997 510 1998 510 2000 510 2000 510 2000 510 2000 510 2005 510 2005			2.97	3.70		5.21	6.40 5.98		8.38	6.32	5.91	3.92	3.20	62.35 57.34
510 1991 510 1992 510 1992 510 1993 510 1994 510 1995 510 1996 510 1997 510 1997 510 1998 510 2001 510 2001 510 2001 510 2005 510 2005		1.98 2.31	2.19	2.85	5.28 4.00	5.01	7.92	7.11 7.64	6.90 6.99	5.95 5.34	4.78	3.93 3.04	1.70	53.90
510 1992 510 1993 510 1994 510 1995 510 1995 510 1996 510 1996 510 1997 510 1998 510 2000 510 2000 510 2000 510 2000 510 2000 510 2000 510 2000 510 2005 510 2005		1.56	2.32	4.54	4.00	4.67	6.11	8.94	7.86	5.37	5.98	2.83	1.70	56.54
510 1993 510 1994 510 1995 510 1996 510 1997 510 1997 510 1997 510 1997 510 2000 510 2000 510 2000 510 2000 510 2005 510 2005		1.33	2.31	3.79	4.22	4.01	5.73	7.65	6.27	5.82	5.10	2.70	1.72	50.65
510 1994 510 1995 510 1996 510 1996 510 1997 510 1998 510 1998 510 2000 510 2000 510 2000 510 2000 510 2000 510 2005 510 2005		1.64	2.14	3.29	4.36	5.02	6.63	11.23	10.45	7.69	4.89	2.77	2.36	62.47
510 1995 510 1996 510 1997 510 1997 510 1998 510 1998 510 2000 510 2001 510 2002 510 2003 510 2005 510 2005 510 2007 510 2007 510 2007 510 2009 510 2009 510 2010 510 2011		1.97	2.14	3.62	4.63	3.98	6.75	7.80	7.74	4.77	3.93	2.56	1.49	51.68
510 1996 510 1997 510 1998 510 1999 510 2000 510 2001 510 2001 510 2002 510 2003 510 2004 510 2006 510 2007 510 2007 510 2009 510 2009 510 2010 510 2011		2.05	2.51	3.00	4.22	4.18	6.07	7.51	6.95	5.08	5.78	3.48	2.82	53.65
510 1997 510 1998 510 1999 510 2000 510 2001 510 2001 510 2002 510 2003 510 2004 510 2005 510 2007 510 2008 510 2008 510 2009 510 2010 510 2011		2.74	3.69	4.52	6.08	7.08	7.08	8.18	5.98	4.36	4.43	2.80	3.10	60.04
510 1998 510 1999 510 2000 510 2001 510 2001 510 2002 510 2003 510 2004 510 2006 510 2007 510 2008 510 2009 510 2009 510 2010 510 2011		2.68	2.29	3.63	4.21	4.50	5.89	7.83	7.26	6.72	4.65	2.73	2.72	55.11
510 1999 510 2000 510 2001 510 2002 510 2002 510 2003 510 2005 510 2006 510 2007 510 2008 510 2009 510 2010 510 2010 510 2011		1.78	1.91	3.79	5.62	6.35	8.82	10.21	7.69	5.94	4.67	2.79	1.87	61.44
510 2000 510 2001 510 2002 510 2003 510 2004 510 2005 510 2005 510 2007 510 2007 510 2008 510 2009 510 2010 510 2011 510 2011		2.93	3.08	3.33	5.34	5.26	5.92	8.10	9.69	7.01	5.65	3.71	3.07	62.97
510 2001 510 2002 510 2003 510 2004 510 2005 510 2006 510 2007 510 2008 510 2009 510 2010 510 2011		3.33	3.47	3.82	3.62	4.54	5.17	7.80	8.47	7.05	4.91	2.84	1.93	56.85
510 2002 510 2003 510 2004 510 2005 510 2006 510 2008 510 2008 510 2009 510 2010 510 2011		2.13	2.32	2.69	4.26	5.38	6.76	8.70	7.68	4.76	4.53	3.25	2.22	54.68
510 2003 510 2004 510 2005 510 2006 510 2007 510 2008 510 2009 510 2010 510 2010		2.40	2.68	3.77	4.22	4.93	6.16	6.23	7.44	5.92	3.24	3.13	2.15	52.27
510 2004 510 2005 510 2006 510 2007 510 2008 510 2009 510 2010 510 2011		2.13	1.74	3.54	5.17	4.57	5.67	7.79	6.95	4.82	4.22	3.75	3.38	53.73
510 2006 510 2007 510 2008 510 2009 510 2010 510 2011	JJ	2.23	2.08	3.90	3.93	4.81	5.27	6.51	6.33	5.37	3.94	2.78	2.48	49.63
510 2006 510 2007 510 2008 510 2009 510 2010 510 2011		2.25	2.25	3.71	4.95	4.29	6.57	7.15	6.21	6.94	5.32	4.50	3.07	57.2
510 2007 510 2008 510 2009 510 2010 510 2011	04	4.08	3.05	4.71	5.60	5.78	7.43	8.00	8.83	5.90	4.90	3.47	2.34	64.0
510 2009 510 2010 510 2011	04	1.69	2.91	3.58	4.03	3.88	5.29	5.26	6.49	4.77	4.76	3.41	2.29	48.36
510 2010 510 2011	04 05 06 07	2.48	3.00	4.45	4.85	5.17	7.76	8.47	6.71	5.01	4.77	3.94	2.89	59.5
510 2011	04 05 06 07 08	2.51	3.59	4.44	5.04	4.42	6.96	7.54	7.85	4.46	3.46	2.97	2.21	55.4
	04 05 06 07 08	1.00	1.83	3.77	4.54	5.15	6.20	5.91	6.87	5.00	5.12	3.26	2.75	52.3
510 2012	04 05 06 07 08 09	1.98	2.33	4.66	6.29	5.64	9.04	10.21	10.77	7.74	5.15	3.51	1.99	69.37
	04 05 06 07 08 09 10	2.04	2.55	3.08	4.36	5.95	6.77	7.98	7.93	6.15	4.68	4.28	3.45	60.02
510 2013	04 05 06 07 08 09 10 11	2.04 2.84	3.21	5.09	4.92	5.08	7.32	7.89	8.08	6.39	4.27	3.18	1.97	60.66
510 2014	04 05 06 07 08 09 10 11 11 12	2.04 2.84 3.04	2.48	3.87	5.74	5.77	6.78	7.15	7.62	5.75	5.37	3.43	1.94	58.60
510 2015	04 05 06 07 08 09 10 11 12 13	2.04 2.84 3.04 2.43	2.49	3.48	4.39	4.06	6.53	8.22	7.37	6.11	5.39	3.52	2.66	56.46
510 2016	04 05 06 07 08 09 10 11 11 12 13	2.04 2.84 3.04 2.43 2.43		4.09	4.12	3.69	6.03	7.69	4.07	5.17	4.63	3.30	2.83	51.0
510 2017	04	2.04 2.84 3.04 2.43 2.43 2.17	3.37	3.97	4.44	5.06	6.06	9.05	6.22	4.92	4.97	3.05	2.30	56.63
510 2018	04	2.04 2.84 3.04 2.43 2.43 2.17 2.96	3.51	4.00	4.40	5.39	7.48	7.65	7.72	4.04	3.67	1.88	1.81	53.16
510 2019	04	2.04 2.84 3.04 2.43 2.43 2.17 2.96 2.11	3.51 2.39	2.98	2.69	2.78	3.65	5.97	6.96	5.90	4.58	2.30	2.21	43.18
510 2020	04	2.04 2.84 3.04 2.43 2.43 2.17 2.96 2.11 1.76	3.51 2.39 1.75		3.64	4.7	6.11	6.05	7.75	3.7	4.17	2.88	1.92	47.94
	04	2.04 2.84 3.04 2.43 2.43 2.17 2.96 2.11	3.51 2.39	2.67										



TCEQ 31-JAN-22 02:56 PM

TCEQ - A/R RECEIPT REPORT BY ACCOUNT NUMBER

Fee Description	Fee Code Account# Account Name	Ref#1 Ref#2 Paid In By	Check Number Card Auth. User Data	CC Typ Tran C Rec Co	ode	Slip Key	Tran Date	Tran Amount
WTR USE PERMITS	WUP WUP WATER USE PERMITS	M211053 13823 PELOTON LAND SOLUTIONS INC	19955 013122 RHDAVIS	N CK		BS00092313 D2801778	31-JAN-22	-\$606.56
				ı	Total	(Fee Code):		-\$606.56
				Grand	Total	:		-\$105,008.63



Water Availability Division



December 6, 2021

Texas Commission on Environmental Quality Water Availability Division, MC-160 12100 Park 35 Circle Austin, Texas 78753

RE: CTR Golf Course – Water Rights Permitting Application

To Whom it May Concern,

On behalf of Independence Water, L.P. & HW 2421, L.P., Peloton Land Solutions, Inc. is submitting a New Appropriation of Sate Water Permitting Application for the CTR Golf Course project. The project is located approximately 0.7 mile southwest of the intersection of State Highway 114 and Westlake Boulevard in the Town of Westlake, Tarrant County, Texas.

An Administrative Information Checklist, Administrative Information Report, Technical Information Report, and all other pertinent and required information is enclosed. Once our application has been reviewed, please provide the cost for a mailed notice. We will then provide a check for the full application fee.

Feel free to contact me at the phone number below or via e-mail at lindi.weber@pelotonland.com if you have any questions or need additional information to process this request.

Sincerely,

Lindi Weber

Peloton Land Solutions Office: 817.562.3350

Enclosures:

1. Administrative Information Checklist, 2. Administrative Information Report, 3. Technical Information Report, and 4. Attachments 1 through 5

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

TCEQ WATER RIGHTS PERMITTING APPLICATION

ADMINISTRATIVE INFORMATION CHECKLIST

Complete and submit this checklist for each application. See Instructions Page. 5.

7/N	Y/N
Administrative Information Report	Worksheet 3.0
Additional Co-Applicant Information	Additional W.S 3.0 for each Point
Additional Co-Applicant Signature Pages	Recorded Deeds for Diversion Points
Written Evidence of Signature Authority	Consent For Diversion Access
Technical Information Report	Worksheet 4.0
USGS Map (or equivalent)	TPDES Permit(s)
Map Showing Project Details	WWTP Discharge Data
Original Photographs	24-hour Pump Test
Water Availability Analysis	Groundwater Well Permit
Worksheet 1.0	Signed Water Supply Contract
Recorded Deeds for Irrigated Land	Worksheet 4.1
Consent For Irrigation Land	Worksheet 5.0
Worksheet 1.1	Addendum to Worksheet 5.0
Addendum to Worksheet 1.1	Worksheet 6.0
Worksheet 1.2	Water Conservation Plan(s)
Addendum to Worksheet 1.2	Drought Contingency Plan(s)
Worksheet 2.0	Documentation of Adoption
Additional W.S 2.0 for Each Reservoir	Worksheet 7.0
Dam Safety Documents	Accounting Plan
Notice(s) to Governing Bodies	Worksheet 8.0
Recorded Deeds for Inundated Land	Fees
Consent For Inundation Land	

ADMINISTRATIVE INFORMATION REPORT

The following information is required for all new applications and amendments.

***Applicants are strongly encouraged to schedule a pre-application meeting with TCEQ Staff to discuss Applicant's needs prior to submitting an application. Call the Water Rights Permitting Team to schedule a meeting at (512) 239-4691.

1.	TYPE OF APPLICATION (Instructions, Page. 6)
Indic	ate, by marking X, next to the following authorizations you are seeking.
	New Appropriation of State Water
	Amendment to a Water Right *
	Bed and Banks
owner mate co-ov be record submaner	ou are seeking an amendment to an existing water rights authorization, you must be the er of record of the authorization. If the name of the Applicant in Section 2, does not the the name of the current owner(s) of record for the permit or certificate or if any of the wners is not included as an applicant in this amendment request, your application could sturned. If you or a co-applicant are a new owner, but ownership is not reflected in the rads of the TCEQ, submit a change of ownership request (Form TCEQ-10204) prior to nitting the application for an amendment. See Instructions page. 6. Please note that an adment application may be returned, and the Applicant may resubmit once the change of ership is complete.
	e summarize the authorizations or amendments you are seeking in the space below or h a narrative description entitled "Summary of Request."

2. APPLICANT INFORMATION (Instructions, Page. 6)

a.

Applicant		
Indicate the number of App (Include a copy of this secti		
What is the Full Legal Name	of the individu	ual or entity (applicant) applying for this permit?
		e must be spelled exactly as filed with the Texas documents forming the entity.)
You may search for your CN	on the TCEQ	th the TCEQ, what is the Customer Number (CN)? website at ccfm?fuseaction=cust.CustSearch
CN :	(leav	ve blank if you do not yet have a CN).
application is signed by an in	ndividual appl	r persons signing the application? Unless an licant, the person or persons must submit written airements in $30\ TAC\ \S\ 295.14$.
First/Last Name:		
Title:		
Have you provided writte 295.14, as an attachment		eeting the signatory requirements in 30 TAC § ration?
What is the applicant's maili may verify the address on the https://tools.usps.com/go/Z	ie USPS websit	
Name:		
Mailing Address:		
City:	State:	ZIP Code:
Indicate an X next to the typ	e of Applicant	t:
Individual	Sole Pro	prietorship-D.B.A.
Partnership	Corpora	
Trust	Estate	
Federal Government	State Go	overnment
County Government	City Gov	vernment
Other Government	_	
For Corporations or Limited State Franchise Tax ID Numb	Partnerships,	provide:

2. APPLICANT INFORMATION (Instructions, Page. 6)

Applicant							
Indicate the number of App (Include a copy of this secti							
What is the Full Legal Name	of the individual	or entity (applicant) applying for this permit?					
HW 2421, L.P.							
	y, the legal name must be spelled exactly as filed with the Texas or in the legal documents forming the entity.) y a customer with the TCEQ, what is the Customer Number (CN)? N on the TCEQ website at ov/crpub/index.cfm?fuseaction=cust.CustSearch						
You may search for your CN							
	_	olank if you do not yet have a CN).					
	ndividual applica	ersons signing the application? Unless an int, the person or persons must submit written ements in 30 TAC § 295.14.					
First/Last Name: L. Russ	ell Laughlin						
Title: Execuitve Vice Pre	sident						
Have you provided writte 295.14, as an attachment	en evidence meeti to this application	ing the signatory requirements in 30 TAC § on? Please see Attachment 2					
295.14, as an attachment	to this application ng address as rec ne USPS website a	on? Please see Attachment 2 cognized by the US Postal Service (USPS)? You at					
295.14, as an attachment What is the applicant's maili may verify the address on the https://tools.usps.com/go/7	to this application ng address as rec ne USPS website a	on? Please see Attachment 2 cognized by the US Postal Service (USPS)? You at					
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295.14, as an attachment What is the applicant's maili may verify the address on the https://tools.usps.com/go/7 Name: HW 2421, L.P.	to this application and address as reconstruction to the contraction of the contraction o	on? Please see Attachment 2 cognized by the US Postal Service (USPS)? You at himput.action.					
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What is the applicant's maili may verify the address on the https://tools.usps.com/go/Z Name: HW 2421, L.P. Mailing Address: 9800 H City: Fort Worth Indicate an X next to the typ Individual	to this application address as recovered to the content of the con	Please see Attachment 2 cognized by the US Postal Service (USPS)? You at timput.action. ZIP Code: 76177 Setorship-D.B.A.					
What is the applicant's maili may verify the address on the https://tools.usps.com/go/Z Name: HW 2421, L.P. Mailing Address: 9800 H City: Fort Worth Indicate an X next to the typ Individual X Partnership	to this application address as recovered to the USPS website a CipLookupAction! illwood Pkwy, # 3 State: Texas e of Applicant: Sole PropriCorporation	Please see Attachment 2 cognized by the US Postal Service (USPS)? You at timput.action. ZIP Code: 76177 Setorship-D.B.A.					
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295.14, as an attachment What is the applicant's maili may verify the address on th https://tools.usps.com/go/Z Name: HW 2421, L.P. Mailing Address: 9800 H City: Fort Worth Indicate an X next to the typ Individual X _PartnershipTrust	to this application address as recovered to the USPS website a CipLookupAction! illwood Pkwy, # 3 State: Texas e of Applicant: Sole Propri CorporationEstateState GovernCity Govern	on? Please see Attachment 2 cognized by the US Postal Service (USPS)? You at thinput.action. 300 ZIP Code: 76177 detorship-D.B.A. on					

3. APPLICATION CONTACT INFORMATION (Instructions, Page. 9)

If the TCEQ needs additional information during the review of the application, who should be contacted? Applicant may submit their own contact information if Applicant wishes to be the point of contact.

First and Last Name:				
Title:				
Organization Name:				
Mailing Address:				
City:	State:	2	ZIP	Code:
Phone No.:		Extension:	_	
Fax No.:		E-mail Addres	s:	

4. WATER RIGHT CONSOLIDATED CONTACT INFORMATION (Instructions, Page. 9)

I/We authorize all future notices be received on my/our behalf at the following:

This section applies only if there are multiple Owners of the same authorization. Unless otherwise requested, Co-Owners will each receive future correspondence from the Commission regarding this water right (after a permit has been issued), such as notices and water use reports. Multiple copies will be sent to the same address if Co-Owners share the same address. Complete this section if there will be multiple owners and all owners agree to let one owner receive correspondence from the Commission. Leave this section blank if you would like all future notices to be sent to the address of each of the applicants listed in section 2 above.

First and Last Name:		
Title:		
Organization Name:		
Mailing Address:		
City:	State:	ZIP Code:
Phone No.:	Extens	sion:
Fax No.:	E-mail	Address:

5. MISCELLANEOUS INFORMATION (Instructions, Page. 9)

- a. The application will not be processed unless all delinquent fees and/or penalties owed to the TCEQ or the Office of the Attorney General on behalf of the TCEQ are paid in accordance with the Delinquent Fee and Penalty Protocol by all applicants/co-applicants. If you need assistance determining whether you owe delinquent penalties or fees, please call the Water Rights Permitting Team at (512) 239-4691, prior to submitting your application.
 - 1. Does Applicant or Co-Applicant owe any fees to the TCEQ? Yes / No

If **yes**, provide the following information: Account number:

Amount past due:

2. Does Applicant or Co-Applicant owe any penalties to the TCEQ? Yes / No

If **yes**, please provide the following information:

Enforcement order number:

Amount past due:

b. If the Applicant is a taxable entity (corporation or limited partnership), the Applicant must be in good standing with the Comptroller or the right of the entity to transact business in the State may be forfeited. See Texas Tax Code, Subchapter F. Applicant's may check their status with the Comptroller at https://mycpa.cpa.state.tx.us/coa/

Is the Applicant or Co-Applicant in good standing with the Comptroller? Yes / No

c. The commission will not grant an application for a water right unless the applicant has submitted all Texas Water Development Board (TWDB) surveys of groundwater and surface water use – if required. See TWC §16.012(m) and 30 TAC § 297.41(a)(5).

Applicant has submitted all required TWDB surveys of groundwater and surface water? Yes / No

6.	SIGNATURE	PAGE	(Instructions,	Page.	11)
----	------------------	------	----------------	-------	-----

Applicant:		
_{I.} L. Russell Laughlin	Execuitve Vice President	
(Typed or printed name)	(Title)	

certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

I further certify that I am authorized under Title 30 Texas Administrative Code §295.14 to sign and submit this document and I have submitted written evidence of my signature authority.

Signature: (Use blue ink)		Date:	
Subscribed and Sworn to before	e me by the day of_	November, 2021.	
My commission expires on the_	17	day of October, 2023.	

Notary Public

Tarrant County, Texas Notary ID 124717681

If the Application includes Co-Applicants, each Applicant and Co-Applicant must submit an original, separate signature page

TECHNICAL INFORMATION REPORT WATER RIGHTS PERMITTING

This Report is required for applications for new or amended water rights. Based on the Applicant's responses below, Applicants are directed to submit additional Worksheets (provided herein). A completed Administrative Information Report is also required for each application.

Applicants are strongly encouraged to	schedule a pre-a	pplication meeting with	h TCEQ
Permitting Staff to discuss Applicant's	needs and to con	firm information nece	ssary for an
application prior to submitting such a	pplication. Please	call Water Availability	Division at
(512) 239-4691 to schedule a meeting.	Applicant attende	ed a pre-application med	eting with TCEQ
Staff for this Application? Y/N	(If yes, date :).	J

1. New or Additional Appropriations of State Water. Texas Water Code (TWC) § 11.121 (Instructions, Page. 12)

State Water is: The water of the ordinary flow, underflow, and tides of every flowing river, natural stream, and lake, and of every bay or arm of the Gulf of Mexico, and the storm water, floodwater, and rainwater of every river, natural stream, canyon, ravine, depression, and watershed in the state. TWC § 11.021.

- a. Applicant requests a new appropriation (diversion or impoundment) of State Water? Y / N
- Applicant requests an amendment to an existing water right requesting an increase in the appropriation of State Water or an increase of the overall or maximum combined diversion rate? Y / N (If yes, indicate the Certificate or Permit number:_____)

If Applicant answered yes to (a) or (b) above, does Applicant also wish to be considered for a term permit pursuant to TWC \S 11.1381? Y/N

c. Applicant requests to extend an existing Term authorization or to make the right permanent? Y / N (If yes, indicate the Term Certificate or Permit number:_____)

If Applicant answered yes to (a), (b) or (c), the following worksheets and documents are required:

- Worksheet 1.0 Quantity, Purpose, and Place of Use Information Worksheet
- Worksheet 2.0 Impoundment/Dam Information Worksheet (submit one worksheet for each impoundment or reservoir requested in the application)
- **Worksheet 3.0 Diversion Point Information Worksheet** (submit one worksheet for each diversion point and/or one worksheet for the upstream limit and one worksheet for the downstream limit of each diversion reach requested in the application)
- Worksheet 5.0 Environmental Information Worksheet
- Worksheet 6.0 Water Conservation Information Worksheet
- Worksheet 7.0 Accounting Plan Information Worksheet
- Worksheet 8.0 Calculation of Fees
- Fees calculated on Worksheet 8.0 see instructions Page. 34.
- Maps See instructions Page. 15.
- **Photographs** See instructions **Page. 30**.

Additionally, if Applicant wishes to submit an alternate source of water for the project/authorization, see Section 3, Page 3 for Bed and Banks Authorizations (Alternate sources may include groundwater, imported water, contract water or other sources).

Additional Documents and Worksheets may be required (see within).

2. Amendments to Water Rights. TWC § 11.122 (Instructions, Page. 12)

This section should be completed if Applicant owns an existing water right and Applicant requests to amend the water right. *If Applicant is not currently the Owner of Record in the TCEQ Records, Applicant must submit a Change of Ownership Application (TCEQ-10204) prior to submitting the amendment Application or provide consent from the current owner to make the requested amendment.* See instructions page. 6.

Water Right (Certificate or Permit) number you a	re requesting to amend:
Applicant requests to sever and combine existing Certificates into another Permit or Certificate? Y	9
List of water rights to sever	Combine into this ONE water right

a. Applicant requests an amendment to an existing water right to increase the amount of the appropriation of State Water (diversion and/or impoundment)? Y / N

If yes, application is a new appropriation for the increased amount, complete **Section 1 of this Report (PAGE. 1) regarding New or Additional Appropriations of State Water**.

b. Applicant requests to amend existing Term authorization to extend the term or make the water right permanent (remove conditions restricting water right to a term of years)? Y / N

If yes, application is a new appropriation for the entire amount, complete **Section 1 of this Report (PAGE. 1) regarding New or Additional Appropriations of State Water.**

- c. Applicant requests an amendment to change the purpose or place of use or to add an additional purpose or place of use to an existing Permit or Certificate? \mathbf{Y} / \mathbf{N} If yes, submit:
 - Worksheet 1.0 Quantity, Purpose, and Place of Use Information Worksheet
 - Worksheet 1.2 Notice: "Marshall Criteria"
- d. Applicant requests to change: diversion point(s); or reach(es); or diversion rate? Y / N

If yes, submit: **Worksheet 3.0 - Diversion Point Information Worksheet** (submit one worksheet for each diversion point or one worksheet for the upstream limit and one worksheet for the downstream limit of each diversion reach)

e. Applicant requests amendment to add or modify an impoundment, reservoir, or dam? Y / N

If yes, submit: **Worksheet 2.0 - Impoundment/Dam Information Worksheet** (submit one worksheet for each impoundment or reservoir)

- - autionally, all amenaments require.
 - Worksheet 8.0 Calculation of Fees; and Fees calculated see instructions Page.34
 - Maps See instructions Page. 15.
 - Additional Documents and Worksheets may be required (see within).

3. Bed and Banks. TWC § 11.042 (Instructions, Page 13)

a. Pursuant to contract, Applicant requests authorization to convey, stored or conserved water to the place of use or diversion point of purchaser(s) using the bed and banks of a watercourse? TWC § 11.042(a). Y/N

If yes, submit a signed copy of the Water Supply Contract pursuant to 30 TAC §§ 295.101 and 297.101. Further, if the underlying Permit or Authorization upon which the Contract is based does not authorize Purchaser's requested Quantity, Purpose or Place of Use, or Purchaser's diversion point(s), then either:

- 1. Purchaser must submit the worksheets required under Section 1 above with the Contract Water identified as an alternate source; or
- 2. Seller must amend its underlying water right under Section 2.
- b. Applicant requests to convey water imported into the state from a source located wholly outside the state using the bed and banks of a watercourse? TWC § 11.042(a-1). Y / N

If yes, submit: worksheets 1.0, 2.0, 3.0, 4.0, 5.0, 7.0, 8.0, Maps and fees from the list below.

c. Applicant requests to convey Applicant's own return flows derived from privately owned groundwater using the bed and banks of a watercourse? TWC § 11.042(b). Y / N

If yes, submit: worksheets 1.0, 2.0, 3.0, 4.0, 5.0, 7.0, 8.0, Maps, and fees from the list below.

d. Applicant requests to convey Applicant's own return flows derived from surface water using the bed and banks of a watercourse? TWC § 11.042(c). Y / N

If yes, submit: worksheets 1.0, 2.0, 3.0, 4.0, 5.0, 6.0, 7.0, 8.0, Maps, and fees from the list below.

*Please note, if Applicant requests the reuse of return flows belonging to others, the Applicant will need to submit the worksheets and documents under Section 1 above, as the application will be treated as a new appropriation subject to termination upon direct or indirect reuse by the return flow discharger/owner.

e. Applicant requests to convey water from any other source, other than (a)-(d) above, using the bed and banks of a watercourse? TWC § 11.042(c). Y/N

If yes, submit: worksheets 1.0, 2.0, 3.0, 4.0, 5.0, 7.0, 8.0, Maps, and fees from the list below. Worksheets and information:

- Worksheet 1.0 Quantity, Purpose, and Place of Use Information Worksheet
- Worksheet 2.0 Impoundment/Dam Information Worksheet (submit one worksheet for each impoundment or reservoir owned by the applicant through which water will be conveyed or diverted)
- **Worksheet 3.0 Diversion Point Information Worksheet** (submit one worksheet for the downstream limit of each diversion reach for the proposed conveyances)
- Worksheet 4.0 Discharge Information Worksheet (for each discharge point)
- Worksheet 5.0 Environmental Information Worksheet
- Worksheet 6.0 Water Conservation Information Worksheet
- Worksheet 7.0 Accounting Plan Information Worksheet
- Worksheet 8.0 Calculation of Fees; and Fees calculated see instructions Page. 34
- Maps See instructions Page. 15.
- Additional Documents and Worksheets may be required (see within).

4. General Information, Response Required for all Water Right Applications (Instructions, Page 15)

a.	Provide information describing how this application addresses a water supply need in a manner that is consistent with the state water plan or the applicable approved regional water plan for any area in which the proposed appropriation is located or, in the alternative, describe conditions that warrant a waiver of this requirement (<i>not required for applications to use groundwater-based return flows</i>). Include citations or page numbers for the State and Regional Water Plans, if applicable. Provide the information in the space below or submit a supplemental sheet entitled "Addendum Regarding the State and Regional Water Plans":			
b.	Did the Applicant perform its own Water Availability Analysis? Y / N			
	If the Applicant performed its own Water Availability Analysis, provide electronic copies of any modeling files and reports.			
c.	Does the application include required Maps? (Instructions Page. 15) Y / N Project Location Maps are provided in Attachment 3			

WORKSHEET 1.0 Quantity, Purpose and Place of Use

1. New Authorizations (Instructions, Page. 16)

Submit the following information regarding quantity, purpose and place of use for requests for new or additional appropriations of State Water or Bed and Banks authorizations:

Quantity (acrefeet) (Include losses for Bed and Banks)	State Water Source (River Basin) or Alternate Source *each alternate source (and new appropriation based on return flows of others) also requires completion of Worksheet 4.0	Purpose(s) of Use	Place(s) of Use *requests to move state water out of basin also require completion of Worksheet 1.1 Interbasin Transfer

_____Total amount of water (in acre-feet) to be used annually (*include losses for Bed and Banks applications*)

If the Purpose of Use is Agricultural/Irrigation for any amount of water, provide:

1.	Location	Information	Regarding	the	Lands to	be	Irrigated
----	----------	-------------	-----------	-----	----------	----	-----------

1)	Applicant proposes to irrigate a tota			any one year. In		
	all of or part of a larger tract(s) wh			supplement atta	ched to	this
	application and contains a total of _		acres in _		County,	TX.
ii)	Location of land to be irrigated:	In th	e	Original	Survey	No.
	A le atrea at NTa					

A copy of the deed(s) or other acceptable instrument describing the overall tract(s) with the recording information from the county records must be submitted. Applicant's name must match deeds.

If the Applicant is not currently the sole owner of the lands to be irrigated, Applicant must submit documentation evidencing consent or other documentation supporting Applicant's right to use the land described. See Attachments 4 and 5

Water Rights for Irrigation may be appurtenant to the land irrigated and convey with the land unless reserved in the conveyance. 30 TAC § 297.81.

2. Amendments - Purpose or Place of Use (Instructions, Page. 12)

a. Complete this section for each requested amendment changing, adding, or removing Purpose(s) or Place(s) of Use, complete the following:

Quantity (acre- feet)	Existing Purpose(s) of Use	Proposed Purpose(s) of Use*	Existing Place(s) of Use	Proposed Place(s) of Use**

^{*}If the request is to add additional purpose(s) of use, include the existing and new purposes of use under "Proposed Purpose(s) of Use."

Changes to the purpose of use in the Rio Grande Basin may require conversion. 30 TAC § 303.43.

b. For any request which adds Agricultural purpose of use or changes the place of use for

Agricultural rights, provide the follow irrigated:	ving location i	nformation reg	arding the lands to be
i) Applicant proposes to irrigate a tot all of or part of a larger tract(s) w application and contains a total	hich is descri	bed in a suppl	
County, TX. ii) Location of land to be irrigated:	In the		Original Survey No
, Abstract No			,

A copy of the deed(s) describing the overall tract(s) with the recording information from the county records must be submitted. Applicant's name must match deeds. If the Applicant is not currently the sole owner of the lands to be irrigated, Applicant must submit documentation evidencing consent or other legal right for Applicant to use the land described.

Water Rights for Irrigation may be appurtenant to the land irrigated and convey with the land unless reserved in the conveyance. 30 TAC § 297.81.

- c. Submit Worksheet 1.1, Interbasin Transfers, for any request to change the place of use which moves State Water to another river basin.
- d. See Worksheet 1.2, Marshall Criteria, and submit if required.
- e. See Worksheet 6.0, Water Conservation/Drought Contingency, and submit if required.

^{**}If the request is to add additional place(s) of use, include the existing and new places of use under "Proposed Place(s) of Use."

WORKSHEET 1.1 INTERBASIN TRANSFERS, TWC § 11.085

Submit this worksheet for an application for a new or amended water right which requests to transfer State Water from its river basin of origin to use in a different river basin. A river basin is defined and designated by the Texas Water Development Board by rule pursuant to TWC § 16.051.

Applicant requests to transfer State Water to another river basin within the State? Y / N NO

Interhasin Transfer Doquest (Instructions Dage 20)

1.	interpasin Transfer Request (instructions, Page. 20)
	a. Provide the Basin of Origin
	b. Provide the quantity of water to be transferred (acre-feet)
	c. Provide the Basin(s) and count(y/ies) where use will occur in the space below:

2. Exemptions (Instructions, Page. 20), TWC § 11.085(v)

Certain interbasin transfers are exempt from further requirements. Answer the following:

- a. The proposed transfer, which in combination with any existing transfers, totals less than 3,000 acre-feet of water per annum from the same water right. **Y/N**
- b. The proposed transfer is from a basin to an adjoining coastal basin? Y/N
- c. The proposed transfer from the part of the geographic area of a county or municipality, or the part of the retail service area of a retail public utility as defined by Section 13.002, that is within the basin of origin for use in that part of the geographic area of the county or municipality, or that contiguous part of the retail service area of the utility, not within the basin of origin? **Y/N**
- d. The proposed transfer is for water that is imported from a source located wholly outside the boundaries of Texas, except water that is imported from a source located in the United Mexican States? Y/N

3. Interbasin Transfer Requirements (Instructions, Page. 20)

For each Interbasin Transfer request that is not exempt under any of the exemptions listed above Section 2, provide the following information in a supplemental attachment titled "Addendum to Worksheet 1.1, Interbasin Transfer":

- a. the contract price of the water to be transferred (if applicable) (also include a copy of the contract or adopted rate for contract water);
- b. a statement of each general category of proposed use of the water to be transferred and a detailed description of the proposed uses and users under each category;
- c. the cost of diverting, conveying, distributing, and supplying the water to, and treating the water for, the proposed users (example expert plans and/or reports documents may be provided to show the cost);

- d. describe the need for the water in the basin of origin and in the proposed receiving basin based on the period for which the water supply is requested, but not to exceed 50 years (the need can be identified in the most recently approved regional water plans. The state and regional water plans are available for download at this website: (http://www.twdb.texas.gov/waterplanning/swp/index.asp);
- e. address the factors identified in the applicable most recently approved regional water plans which address the following:
 - (i) the availability of feasible and practicable alternative supplies in the receiving basin to the water proposed for transfer;
 - (ii) the amount and purposes of use in the receiving basin for which water is needed;
 - (iii) proposed methods and efforts by the receiving basin to avoid waste and implement water conservation and drought contingency measures;
 - (iv) proposed methods and efforts by the receiving basin to put the water proposed for transfer to beneficial use;
 - (v) the projected economic impact that is reasonably expected to occur in each basin as a result of the transfer; and
 - (vi) the projected impacts of the proposed transfer that are reasonably expected to occur on existing water rights, instream uses, water quality, aquatic and riparian habitat, and bays and estuaries that must be assessed under Sections 11.147, 11.150, and 11.152 in each basin (*if applicable*). If the water sought to be transferred is currently authorized to be used under an existing permit, certified filing, or certificate of adjudication, such impacts shall only be considered in relation to that portion of the permit, certified filing, or certificate of adjudication proposed for transfer and shall be based on historical uses of the permit, certified filing, or certificate of adjudication for which amendment is sought;
- (f) proposed mitigation or compensation, if any, to the basin of origin by the applicant; and
- (g) the continued need to use the water for the purposes authorized under the existing Permit, Certified Filing, or Certificate of Adjudication, if an amendment to an existing water right is sought.

WORKSHEET 1.2 NOTICE. "THE MARSHALL CRITERIA"

This worksheet assists the Commission in determining notice required for certain **amendments** that do not already have a specific notice requirement in a rule for that type of amendment, and *that do not change the amount of water to be taken or the diversion rate*. The worksheet provides information that Applicant **is required** to submit for such amendments which include changes in use, changes in place of use, or other non-substantive changes in a water right (such as certain amendments to special conditions or changes to off-channel storage). These criteria address whether the proposed amendment will impact other water right holders or the onstream environment beyond and irrespective of the fact that the water right can be used to its full authorized amount.

This worksheet is **not required for Applications in the Rio Grande Basin** requesting changes in the purpose of use, rate of diversion, point of diversion, and place of use for water rights held in and transferred within and between the mainstems of the Lower Rio Grande, Middle Rio Grande, and Amistad Reservoir. See 30 TAC § 303.42.

This worksheet is **not required for amendments which are only changing or adding diversion points, or request only a bed and banks authorization or an IBT authorization**. However, Applicants may wish to submit the Marshall Criteria to ensure that the administrative record includes information supporting each of these criteria

1. The "Marshall Criteria" (Instructions, Page. 21)

Submit responses on a supplemental attachment titled "Marshall Criteria" in a manner that conforms to the paragraphs (a) – (g) below:

- a. <u>Administrative Requirements and Fees.</u> Confirm whether application meets the administrative requirements for an amendment to a water use permit pursuant to TWC Chapter 11 and Title 30 Texas Administrative Code (TAC) Chapters 281, 295, and 297. An amendment application should include, but is not limited to, a sworn application, maps, completed conservation plan, fees, etc.
- b. <u>Beneficial Use.</u> Discuss how proposed amendment is a beneficial use of the water as defined in TWC § 11.002 and listed in TWC § 11.023. Identify the specific proposed use of the water (e.g., road construction, hydrostatic testing, etc.) for which the amendment is requested.
- c. <u>Public Welfare</u>. Explain how proposed amendment is not detrimental to the public welfare. Consider any public welfare matters that might be relevant to a decision on the application. Examples could include concerns related to the well-being of humans and the environment.
- d. <u>Groundwater Effects.</u> Discuss effects of proposed amendment on groundwater or groundwater recharge.

- e. <u>State Water Plan.</u> Describe how proposed amendment addresses a water supply need in a manner that is consistent with the state water plan or the applicable approved regional water plan for any area in which the proposed appropriation is located or, in the alternative, describe conditions that warrant a waiver of this requirement. The state and regional water plans are available for download at: http://www.twdb.texas.gov/waterplanning/swp/index.asp.
- f. <u>Waste Avoidance.</u> Provide evidence that reasonable diligence will be used to avoid waste and achieve water conservation as defined in TWC § 11.002. Examples of evidence could include, but are not limited to, a water conservation plan or, if required, a drought contingency plan, meeting the requirements of 30 TAC Chapter 288.
- g. <u>Impacts on Water Rights or On-stream Environment</u>. Explain how proposed amendment will not impact other water right holders or the on-stream environment beyond and irrespective of the fact that the water right can be used to its full authorized amount.

WORKSHEET 2.0 Impoundment/Dam Information

This worksheet **is required** for any impoundment, reservoir and/or dam. Submit an additional Worksheet 2.0 for each impoundment or reservoir requested in this application.

If there is more than one structure, the numbering/naming of structures should be consistent throughout the application and on any supplemental documents (e.g. maps).

1.

	Storage Information (Instructions, Page. 21)		
a.	Official USGS name of reservoir, if applicable:		
b.	Provide amount of water (in acre-feet) impounded by structure at normal maximum operating level:		
c.	c. The impoundment is on-channel or off-channel (mark one)		
	 Applicant has verified on-channel or off-channel determination by contacting Surface Water Availability Team at (512) 239-4691? Y / N 		
	2. If on-channel, will the structure have the ability to pass all State Water inflows that Applicant does not have authorization to impound? Y / N		
d.	Is the impoundment structure already constructed? Y/N		
	i. For already constructed on-channel structures:		
	Date of Construction:		
	2. Was it constructed to be an exempt structure under TWC § 11.142? Y/N a. If Yes, is Applicant requesting to proceed under TWC § 11.143? Y/N b. If No, has the structure been issued a notice of violation by TCEQ? Y/N		
	3. Is it a U.S. Natural Resources Conservation Service (NRCS) (formerly Soil Conservation Service (SCS)) floodwater-retarding structure? Y/N a. If yes, provide the Site Noand watershed project name; b. Authorization to close "ports" in the service spillway requested? Y/N		
	ii. For any proposed new structures or modifications to structures:		
	 Applicant must contact TCEQ Dam Safety Section at (512) 239-0326, prior to submitting an Application. Applicant has contacted the TCEQ Dam Safety Section regarding the submission requirements of 30 TAC, Ch. 299? Y / N Provide the date and the name of the Staff Person 		
	2. As a result of Applicant's consultation with the TCEQ Dam Safety Section, TCEQ		

a. No additional dam safety documents required with the Application. Y / N

d. Engineer's statement that structure complies with 30 TAC, Ch. 299 Rules

b. Plans (with engineer's seal) for the structure required. Y / N

c. Engineer's signed and sealed hazard classification required. Y/N

required. Y/N

			body of each county and municipality in which the reservoir, or any part of the reservoir to be constructed, will be located. (30 TAC § 295.42). Applicant must submit a copy of all the notices and certified mailing cards with this Application. Notices and cards are included? Y / N
	iii.	Ad	ditional information required for on-channel storage:
		1.	Surface area (in acres) of on-channel reservoir at normal maximum operating level:
		2.	Based on the Application information provided, Staff will calculate the drainage area above the on-channel dam or reservoir. If Applicant wishes to also calculate the drainage area they may do so at their option. Applicant has calculated the drainage area. Y/N If yes, the drainage area is sq. miles. (If assistance is needed, call the Surface Water Availability Team prior to submitting the application, (512) 239-4691).
2.	Struc	tu	re Location (Instructions, Page. 23)
a.	On Wat	erc	ourse (if on-channel) (USGS name):
			Original Survey No, Abstract,, County, Texas.
	* A co submi inund	tte	of the deed(s) with the recording information from the county records must be d describing the tract(s) that include the structure and all lands to be d.
	or will docun right t	l be ien to u	pplicant is not currently the sole owner of the land on which the structure is built and sole owner of all lands to be inundated, Applicant must submit tation evidencing consent or other documentation supporting Applicant's see the land described. Tanty Deed for tract is included in Attachment 4. Consent Letter for Use of Land is included in Attachment 5.
d.	A poin (off-ch	t o ani	n the centerline of the dam (on-channel) or anywhere within the impoundment nel) is:
	Latituo	de	°N, Longitude°W.
	*Provi		Latitude and Longitude coordinates in decimal degrees to at least six decimal
di.	Indicat Mappi	te t ng	he method used to calculate the location (examples: Handheld GPS Device, GIS, Program):
dii.			nitted which clearly identifies the Impoundment, dam (where applicable), and the se inundated. See instructions Page. 15. Y / N

3. Applicants **shall** give notice by certified mail to each member of the governing

WORKSHEET 3.0 DIVERSION POINT (OR DIVERSION REACH) INFORMATION

This worksheet **is required** for each diversion point or diversion reach. Submit one Worksheet 3.0 for **each** diversion point and two Worksheets for **each** diversion reach (one for the upstream limit and one for the downstream limit of each diversion reach).

The numbering of any points or reach limits should be consistent throughout the application and on supplemental documents (e.g. maps).

1.	Diver	sion Information (Instructions, Page. 2	4)
a. This Worksheet is to add new (select 1 of 3 below):			
	2	Diversion Point No. Upstream Limit of Diversion Reach No. Downstream Limit of Diversion Reach No	
b.		m Rate of Diversion for this new point gpm (gallons per minute)	_ cfs (cubic feet per second)
C.	c. Does this point share a diversion rate with other points? Y / N If yes, submit Maximum Combined Rate of Diversion for all points/reachescfs orgpm		
d.	For ame	endments, is Applicant seeking to increase combin	ed diversion rate? Y/N
		crease in diversion rate is considered a new appropion of Section 1, New or Additional Appropriation of	
e.	e. Check $()$ the appropriate box to indicate diversion location and indicate whether the diversion location is existing or proposed):		
	Check one	<u> </u>	Write: Existing or Proposed
		Directly from stream	
		From an on-channel reservoir	
		110m dir on chamici reservon	
		From a stream to an on-channel reservoir	

Diversion Location (Instructions, Page 25) a. On watercourse (USGS name): b. Zip Code: c. Location of point: In the ______Original Survey No. _____, Abstract No._____, ____County, Texas. A copy of the deed(s) with the recording information from the county records must be submitted describing tract(s) that include the diversion structure. For diversion reaches, the Commission cannot grant an Applicant access to property that the Applicant does not own or have consent or a legal right to access, the Applicant will be required to provide deeds, or consent, or other documents supporting a legal right to use the specific points when specific diversion points within the reach are utilized. Other documents may include, but are not limited to: a recorded easement, a land lease, a contract, or a citation to the Applicant's right to exercise eminent domain to acquire access. See Attachments 4 and 5 d. Point is at: °N, Longitude Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places e. Indicate the method used to calculate the location (examples: Handheld GPS Device, GIS, Mapping Program): f. Map submitted must clearly identify each diversion point and/or reach. See instructions Page. 38. g. If the Plan of Diversion is complicated and not readily discernable from looking at the map, attach additional sheets that fully explain the plan of diversion.

2.

WORKSHEET 4.0 DISCHARGE INFORMATION

This worksheet required for any requested authorization to discharge water into a State Watercourse for conveyance and later withdrawal or in-place use. Worksheet 4.1 is also required for each Discharge point location requested. **Instructions Page. 26.** *Applicant is responsible for obtaining any separate water quality authorizations which may be required and for insuring compliance with TWC*, *Chapter 26 or any other applicable law*.

a.	The purpose of use for the water being discharged will be
b.	Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses% and explain the method of calculation:
	Is the source of the discharged water return flows? $ Y / N $ If yes, provide the following information:
	1. The TPDES Permit Number(s) (attach a copy of the current TPDES permit(s))
	2. Applicant is the owner/holder of each TPDES permit listed above? Y/N
su ap	EASE NOTE: If Applicant is not the discharger of the return flows, the application should be bmitted under Section 1, New or Additional Appropriation of State Water, as a request for a new appropriation of state water. If Applicant is the discharger, then the application should be bmitted under Section 3, Bed and Banks.
	3. Monthly WWTP discharge data for the past 5 years in electronic format. (Attach and label as "Supplement to Worksheet 4.0").
	4. The percentage of return flows from groundwater, surface water?
	5. If any percentage is surface water, provide the base water right number(s)
C.	Is the source of the water being discharged groundwater? Y / N $$ If yes, provide the following information:
	1. Source aquifer(s) from which water will be pumped:
	2. Any 24 hour pump test for the well if one has been conducted. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See http://www.twdb.texas.gov/groundwater/data/gwdbrpt.asp. Additionally, provide well numbers or identifiers
	3. Indicate how the groundwater will be conveyed to the stream or reservoir.
ci.	 A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required. See Attachment 6 - Notice to Proceed Letters from Northern Trinity GCD Is the source of the water being discharged a surface water supply contract? Y / N If yes, provide the signed contract(s).
cii.	Identify any other source of the water

WORKSHEET 4.1 DISCHARGE POINT INFORMATION

This worksheet is required for **each** discharge point. Submit one Worksheet 4.1 for each discharge point. If there is more than one discharge point, the numbering of the points should be consistent throughout the application and on any supplemental documents (e.g. maps). **Instructions, Page 27.**

For water discharged at this location provide:

a.	The amount of water that will be discharged at this point is per year. The discharged amount should include the amount compensate for any losses.	acre-feet t needed for use and to
b.	Water will be discharged at this point at a maximum rate of_	cfs orgpm.
c.	Name of Watercourse as shown on Official USGS maps:	
d.	Zip Code:	
f.	Location of point: In theOriginal Survey No No,County, Texas.	, Abstract Coordinate is provided at centerline of dam to allow
g.	Point is at:	for discharge to be located anywhere along perimeter of on-channel pond.
	Latitude°N, Longitude°W	
	*Provide Latitude and Longitude coordinates in decimal de places	egrees to at least six decimal
h.	Indicate the method used to calculate the discharge point lo GPS Device, GIS, Mapping Program):	
Mā	ap submitted must clearly identify each discharge point. Se	e instructions Page. 15.

See project location maps in Attachment 3.

WORKSHEET 5.0 ENVIRONMENTAL INFORMATION

This worksheet is required for new appropriations of water in the Canadian, Red, Sulphur, and Cypress Creek Basins. The worksheet is also required in all basins for: requests to change a diversion point, applications using an alternate source of water, and bed and banks applications. **Instructions, Page 28.**

1. New Appropriations of Water (Canadian, Red, Sulphur, and Cypress Creek Basins only) and Changes in Diversion Point(s)

Description of the Water Body at each Diversion Point or Dam Location. (Provide an Environmental Information Sheet for each location).

a. Identify the appropriate description of the water body.
□ Stream
□ Reservoir
Average depth of the entire water body, in feet:
☐ Other, specify:
b. Flow characteristics
If a stream, was checked above, provide the following. For new diversion locations, check one of the following that best characterize the area downstream of the diversion (check one).
☐ Intermittent - dry for at least one week during most years
☐ Intermittent with Perennial Pools – enduring pools
☐ Perennial - normally flowing
Check the method used to characterize the area downstream of the new diversion location.
□ USGS flow records
☐ Historical observation by adjacent landowners
☐ Personal observation
□ Other, specify:
c. Waterbody aesthetics

affected by the application and the area surrounding those stream segments.

Check one of the following that best describes the aesthetics of the stream segments

☐ Wilderness: outstanding natural beauty; usually wooded or unpastured area; water clarity exceptional
□ Natural Area: trees and/or native vegetation common; some development evident (from fields, pastures, dwellings); water clarity discolored
☐ Common Setting: not offensive; developed but uncluttered; water may be colored or turbid
☐ Offensive: stream does not enhance aesthetics; cluttered; highly developed; dumping areas; water discolored
erbody Recreational Uses

d. Wat

Are there any known recreational uses of the stream segments affected by the application?

- ☐ Primary contact recreation (swimming or direct contact with water)
- Secondary contact recreation (fishing, canoeing, or limited contact with water)
- ☐ Non-contact recreation

Submit the following information in a Supplemental Attachment, labeled Addendum to Worksheet 5.0:

- 1. Photographs of the stream at the diversion point or dam location. Photographs should be in color and show the proposed point or reservoir and upstream and downstream views of the stream, including riparian vegetation along the banks. Include a description of each photograph and reference the photograph to the map submitted with the application indicating the location of the photograph and the direction of the shot.
- 2. Measures the applicant will take to avoid impingement and entrainment of aquatic organisms (ex. Screens on the new diversion structure).
- 3. If the application includes a proposed reservoir, also include:
 - i. A brief description of the area that will be inundated by the reservoir.
 - If a United States Army Corps of Engineers (USACE) 404 permit is ii. required, provide the project number and USACE project manager.
 - iii. A description of how any impacts to wetland habitat, if any, will be mitigated if the reservoir is greater than 5,000 acre-feet.

Alternate Sources of Water and/or Bed and Banks Applications 2.

For all bed and banks applications:

Indicate the measures the applicant will take to avoid impingement and a. entrainment of aquatic organisms (ex. Screens on the new diversion structure).

See Attachment 7, Addendum to Worksheet 5.0.

b.	An assessment of the adequacy of the quantity and quality of flows remaining after the proposed diversion to meet instream uses and bay and estuary freshwater inflow requirements. See Attachment 7, Addendum to Worksheet 5.0.
If the alter	nate source is treated return flows, provide the TPDES permit number
0	ater is the alternate source, or groundwater or other surface water will be discharged recourse provide:
a.	Reasonably current water chemistry information including but not limited to the following parameters in the table below. Additional parameters may be requested if there is a specific water quality concern associated with the aquifer from which

following parameters in the table below. Additional parameters may be requested if there is a specific water quality concern associated with the aquifer from which water is withdrawn. If data for onsite wells are unavailable; historical data collected from similar sized wells drawing water from the same aquifer may be provided. However, onsite data may still be required when it becomes available. Provide the well number or well identifier. Complete the information below for each well and provide the Well Number or identifier.

Full results of Analytical Results are provided in Attachment 8. Need to explain where these samples came from.

Parameter	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
Sulfate, mg/L			-		
Chloride,					
mg/L					
Total					
Dissolved					
Solids, mg/L					
pH, standard					
units					
Temperature*,					
degrees					
Celsius					

^{*} Temperature must be measured onsite at the time the groundwater sample is collected.

b.	If groundwater will be used, provide the depth of the well	and the name
of t	ne aquifer from which water is withdrawn	-

WORKSHEET 6.0 Water Conservation/Drought Contingency Plans

This form is intended to assist applicants in determining whether a Water Conservation Plan and/or Drought Contingency Plans is required and to specify the requirements for plans. **Instructions, Page 31.**

The TCEQ has developed guidance and model plans to help applicants prepare plans. Applicants may use the model plan with pertinent information filled in. For assistance submitting a plan call the Resource Protection Team (Water Conservation staff) at 512-239-4691, or e-mail wras@tceq.texas.gov. The model plans can also be downloaded from the TCEQ webpage. **Please** use the most up-to-date plan documents available on the webpage.

1. Water Conservation Plans

- a. The following applications must include a completed Water Conservation Plan (30 TAC § 295.9) for each use specified in 30 TAC, Chapter 288 (municipal, industrial or mining, agriculture including irrigation, wholesale):
 - 1. Request for a new appropriation or use of State Water.
 - 2. Request to amend water right to increase appropriation of State Water.
 - 3. Request to amend water right to extend a term.
 - 4. Request to amend water right to change a place of use.

 *does not apply to a request to expand irrigation acreage to adjacent tracts.
 - 5. Request to amend water right to change the purpose of use. *applicant need only address new uses.
 - 6. Request for bed and banks under TWC § 11.042(c), when the source water is State Water

*including return flows, contract water, or other State Water.

b.	If Applicant is requesting any authorization in section (1)(a) above, indicate each use for which Applicant is submitting a Water Conservation Plan as an attachment:			
	1	_Municipal Use. See 30 TAC § 288.2. **		
	2	_Industrial or Mining Use. See 30 TAC § 288.3.		

4. Wholesale Water Suppliers. See 30 TAC § 288.5. **

3. ____Agricultural Use, including irrigation. See 30 TAC § 288.4.

**If Applicant is a water supplier, Applicant must also submit documentation of adoption of the plan. Documentation may include an ordinance, resolution, or tariff, etc. See 30 TAC §§ 288.2(a)(1)(J)(i) and 288.5(1)(H). Applicant has submitted such documentation with each water conservation plan? Y / N

c. Water conservation plans submitted with an application must also include data and information which: supports applicant's proposed use with consideration of the plan's water conservation goals; evaluates conservation as an alternative to the proposed

appropriation; and evaluates any other feasible alternative to new water development. See 30 TAC \S 288.7.

Applicant has included this information in each applicable plan? Y / N

2. Drought Contingency Plans

etc. See 30 TAC § 288.30) Y / N

a.	A drought contingency plan is also required for the following entities if Applicant is requesting any of the authorizations in section (1) (a) above – indicate each that applies:
	1Municipal Uses by public water suppliers. See 30 TAC § 288.20.
	2Irrigation Use/ Irrigation water suppliers. See 30 TAC § 288.21.
	3Wholesale Water Suppliers. See 30 TAC § 288.22.
b.	If Applicant must submit a plan under section 2(a) above, Applicant has also submitted documentation of adoption of drought contingency plan (ordinance, resolution or tariff

WORKSHEET 7.0 ACCOUNTING PLAN INFORMATION WORKSHEET

The following information provides guidance on when an Accounting Plan may be required for certain applications and if so, what information should be provided. An accounting plan can either be very simple such as keeping records of gage flows, discharges, and diversions; or, more complex depending on the requests in the application. Contact the Surface Water Availability Team at 512-239-4691 for information about accounting plan requirements, if any, for your application. Instructions, Page 34. See Attachment 9 for Accounting Plan and Accounting Plan

Summary.

1. Is Accounting Plan Required

Accounting Plans are generally required:

- For applications that request authorization to divert large amounts of water from a single point where multiple diversion rates, priority dates, and water rights can also divert from that point:
- For applications for new major water supply reservoirs;
- For applications that amend a water right where an accounting plan is already required, if the amendment would require changes to the accounting plan;
- For applications with complex environmental flow requirements;
- For applications with an alternate source of water where the water is conveyed and diverted; and
- For reuse applications.

2. **Accounting Plan Requirements**

- A **text file** that includes: a.
 - an introduction explaining the water rights and what they authorize;
 - an explanation of the fields in the accounting plan spreadsheet including how they are calculated and the source of the data;
 - for accounting plans that include multiple priority dates and authorizations, a section that discusses how water is accounted for by priority date and which water is subject to a priority call by whom; and
 - Should provide a summary of all sources of water.

b. A **spreadsheet** that includes:

- Basic daily data such as diversions, deliveries, compliance with any instream flow requirements, return flows discharged and diverted and reservoir content;
- Method for accounting for inflows if needed:
- Reporting of all water use from all authorizations, both existing and proposed;
- An accounting for all sources of water:
- An accounting of water by priority date:
- For bed and banks applications, the accounting plan must track the discharged water from the point of delivery to the final point of diversion;
- Accounting for conveyance losses: 7.
- Evaporation losses if the water will be stored in or transported through a reservoir. Include changes in evaporation losses and a method for measuring reservoir content resulting from the discharge of additional water into the reservoir;
- An accounting for spills of other water added to the reservoir; and
- 10. Calculation of the amount of drawdown resulting from diversion by junior rights or diversions of other water discharged into and then stored in the reservoir.

WORKSHEET 8.0 CALCULATION OF FEES

This worksheet is for calculating required application fees. Applications are not Administratively Complete until all required fees are received. **Instructions, Page. 34**

1. NEW APPROPRIATION

	Description	Amount (\$)
Filing Fee	Circle fee correlating to the total amount of water* requested for any new appropriation and/or impoundment. Amount should match total on Worksheet 1, Section 1. Enter corresponding fee under Amount (\$).	
	<u>In Acre-Feet</u>	
	a. Less than 100 \$100.00	
	b. 100 - 5,000 \$250.00	
	c. 5,001 - 10,000 \$500.00	
	d. 10,001 - 250,000 \$1,000.00	
	e. More than 250,000 \$2,000.00	
Recording Fee		\$25.00
Agriculture Use Fee	Only for those with an Irrigation Use. Multiply 50° x Number of acres that will be irrigated with State Water. **	
	Required for all Use Types, excluding Irrigation Use .	
Use Fee	Multiply \$1.00 x Maximum annual diversion of State Water in acrefeet. **	
Degraptional Starage	Only for those with Recreational Storage.	
Recreational Storage Fee	Multiply 1.00 x acre-feet of in-place Recreational Use State Water to be stored at normal max operating level.	
Storage Fee	Only for those with Storage, excluding Recreational Storage.	
	Multiply $50 \ x$ acre-feet of State Water to be stored at normal max operating level.	
Mailed Notice	Cost of mailed notice to all water rights in the basin. Contact Staff to determine the amount (512) 239-4691.	
	TOTAL	\$

2. AMENDMENT OR SEVER AND COMBINE

	Description	Amount (\$)
Filing Fee	Amendment: \$100	
	OR Sever and Combine: \$100 xof water rights to combine	
Recording Fee		\$12.50
Mailed Notice	Additional notice fee to be determined once application is submitted.	
	TOTAL INCLUDED	\$

3. BED AND BANKS

	Description	Amount (\$)
Filing Fee		\$100.00
Recording Fee		\$12.50
Mailed Notice	Additional notice fee to be determined once application is submitted.	
	TOTAL INCLUDED	\$

ATTACHMENT 1

Signatory Requirements – Independence Water, L.P.

WRITTEN CONSENT OF THE SOLE MEMBER OF

INDEPENDENCE WATER GP, LLC

January 1, 2021

The undersigned, being the sole member of Independence Water GP, LLC, a Texas limited liability company (the "Company"), does hereby consent to, adopt, and approve, in all respects, the following resolutions and each and every action effected thereby.

Annual Election of Officers

RESOLVED, that the individuals named below are hereby authorized to act, on behalf of the Company, in the capacity listed set forth opposite their respective names, to serve until he/she resigns, is removed or otherwise disqualified to serve, or until the appointment of a successor:

Name	Office
L. Russell Laughlin	Executive Vice President

RESOLVED, that the officers of the Company are hereby authorized and directed, in the name and on behalf of the Company, to do and perform such acts and deeds and to execute and deliver such instruments and documents as may be necessary or desirable to carry out and comply with the terms and provisions of these resolutions, and that all past and present actions and deeds of any such officer that are consistent with the purposes of the Company be, and the same hereby are, in all respects, ratified, approved and adopted as the acts of the Company.

[The Balance of this Page Intentionally Left Blank; Signature Page to Follow.]

This written consent of the sole member of Independence Water GP, LLC is executed to be effective as of the date first above written.

HILLWOOD MANAGEMENT, LTD., **SOLE MEMBER:**

a Texas limited partnership

Hillwood Property Company, By:

a Texas corporation, its general partner

By: Stephen D. Parker Assistant Secretary

ATTACHMENT 2

Signatory Requirements – HW 2421, L.P.

WRITTEN CONSENT OF THE SOLE MEMBER OF

HW 2421 LAND GP, LLC

January 1, 2021

The undersigned, being the sole member of HW 2421 Land GP, LLC, a Texas limited liability company (the "Company"), does hereby consent to, adopt, and approve, in all respects, the following resolutions and each and every action effected thereby.

Annual Election of Officers

RESOLVED, that the individuals named below are hereby authorized to act, on behalf of the Company, in the capacity set forth opposite their respective names, to serve until he/she resigns, is removed or otherwise disqualified to serve, or until the appointment of a successor:

Name	Office
L. Russell Laughlin	Executive Vice President

RESOLVED, that the officers of the Company are hereby authorized and directed, in the name and on behalf of the Company, to do and perform such acts and deeds and to execute and deliver such instruments and documents as may be necessary or desirable to carry out and comply with the terms and provisions of these resolutions, and that all past and present actions and deeds of any such officer that are consistent with the purposes of the Company be, and the same hereby are, in all respects, ratified, approved and adopted as the acts of the Company.

RESOLVED, that the Secretary and/or Assistant Secretary of the Company is directed to place this Written Consent of the Sole Member of HW 2421 Land GP, LLC, in the Company's corporate records.

This written consent of the sole member of HW 2421 Land GP, LLC is executed to be effective as of the date first above written.

SOLE MEMBER: HILLWOOD DEVELOPMENT COMPANY, LLC,

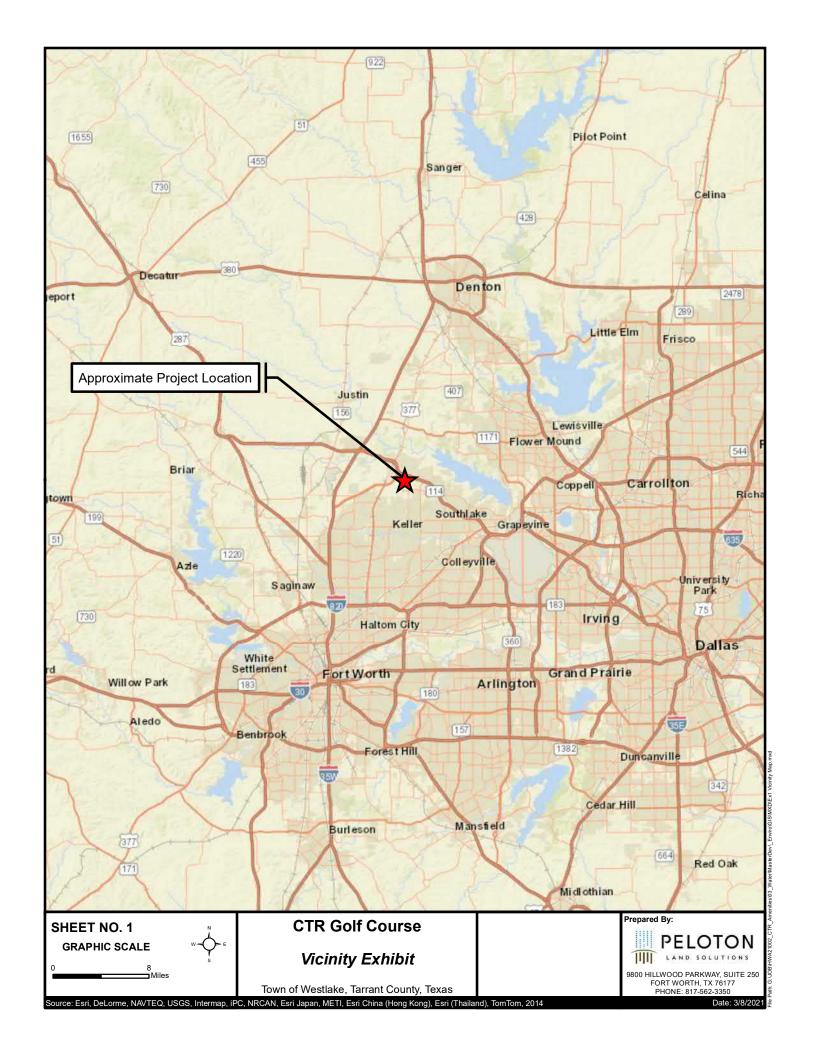
a Texas limited liability company

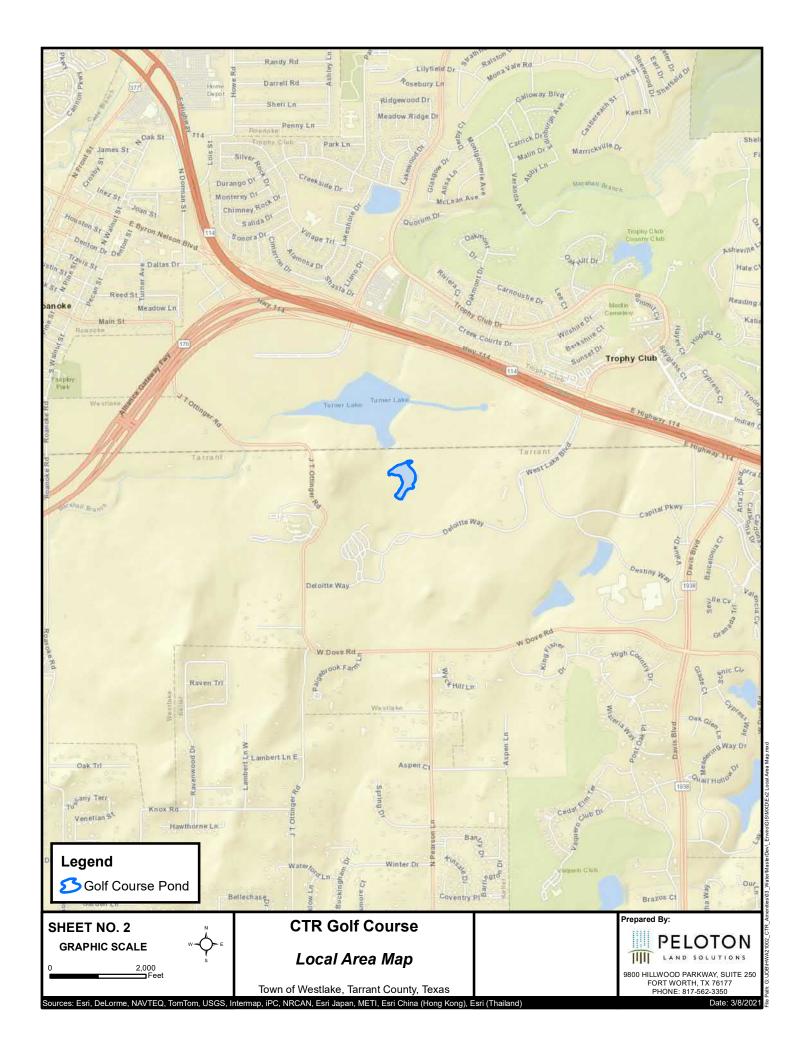
By: Stephen D. Parker

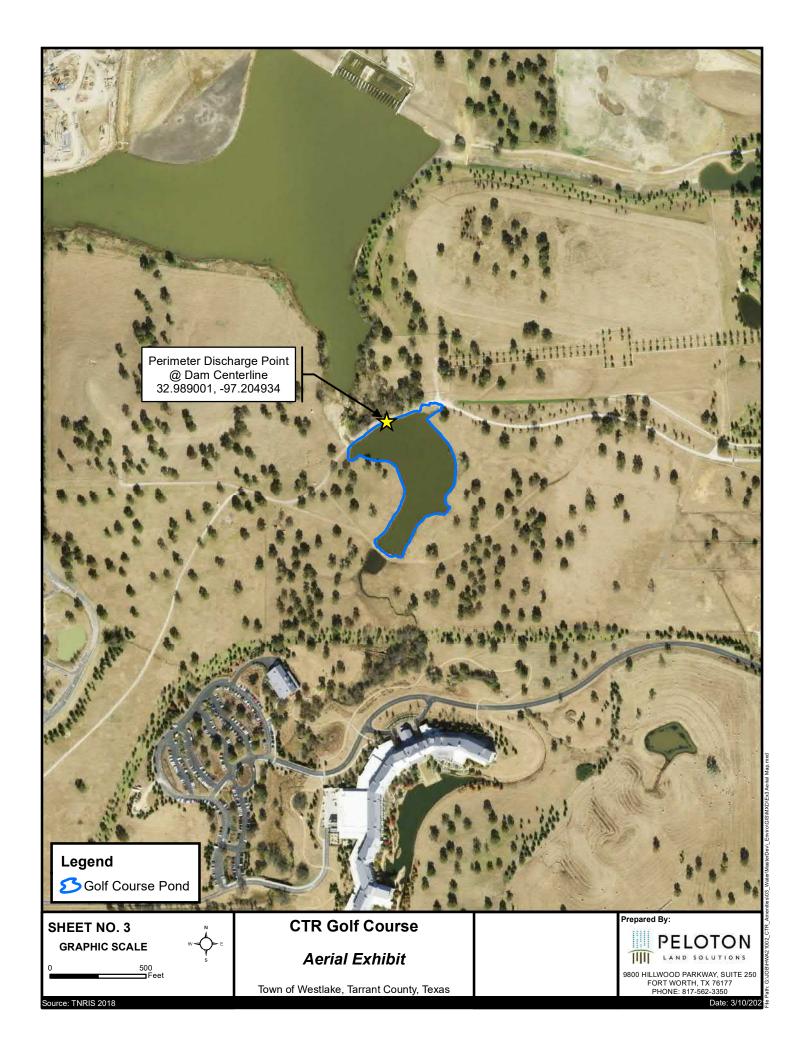
Assistant Secretary

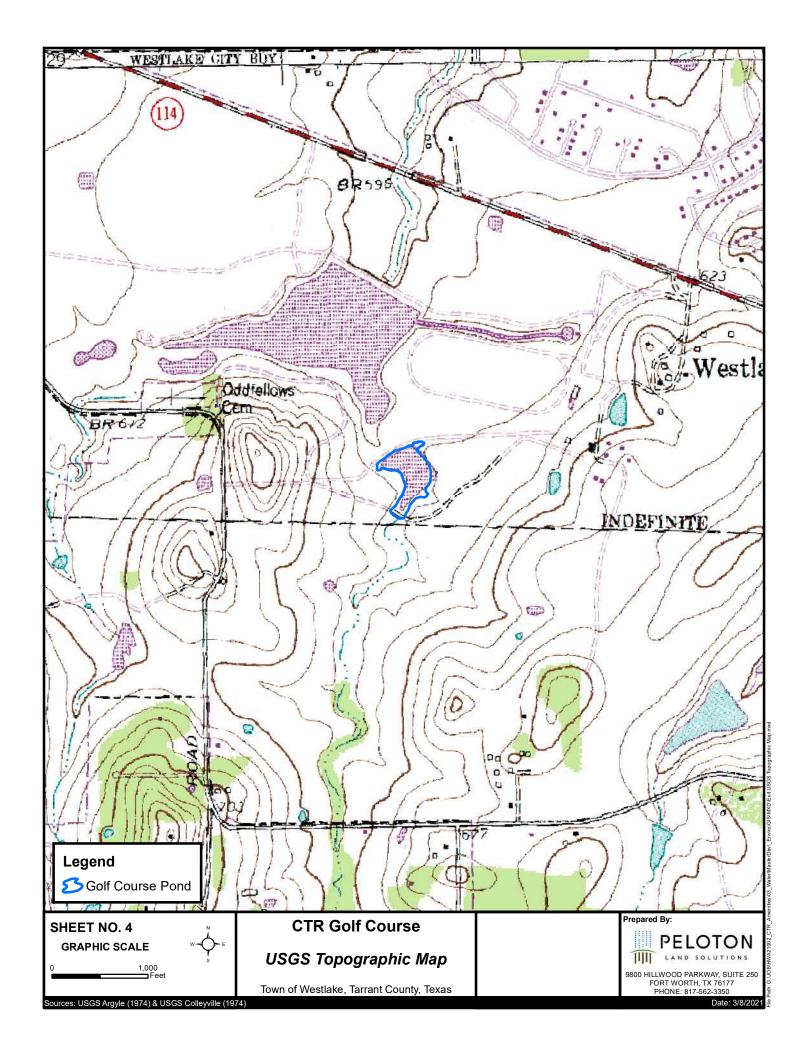
ATTACHMENT 3

Project Location Maps









ATTACHIMENT A
ATTACHMENT 4 Limited Warranty Deed for Structure Location & Irrigation Area
Tallally 2 cca for our acture 2 ccation & migation / ned
and

NOTICE OF CONFIDENTIALITY RIGHTS: IF YOU ARE A NATURAL PERSON, YOU MAY REMOVE OR STRIKE ANY OR ALL OF THE FOLLOWING INFORMATION FROM THIS INSTRUMENT BEFORE IT IS FILED FOR RECORD IN THE PUBLIC RECORDS: YOUR SOCIAL SECURITY NUMBER OR YOUR DRIVER'S LICENSE NUMBER.

LIMITED WARRANTY DEED

THE STATE OF TEXAS

COUNTIES OF DENTON AND TARRANT KNOW ALL MEN BY THESE PRESENT

THAT, AIL Investment, L.P., a Texas limited partnership ("Grantor"), for and a consideration of \$10.00 and other good and valuable consideration in hand paid by HW 2421 Land, LP, a Texas limited partnership ("Grantee"), whose address is Three Lincoln Centre, 5430 LBJ Freeway, Suite 800, Dallas, Texas 75240, the receipt and sufficiency of which are hereby acknowledged, has GRANTED AND CONVEYED and by these presents does GRANT AND CONVEY unto Grantee, (i) the real property situated in Denton and Tarrant Counties, Texas, more particularly described on Exhibit "A" attached hereto and incorporated herein by reference, and (ii) together with all and singular, the rights, privileges, hereditaments and appurtenances pertaining to such real property, including, any and all improvements and fixtures currently attached to and located thereon, if any (collectively, the "Property").

For the same consideration, Grantor has GRANTED AND CONVEYED, and by these presents does GRANT AND CONVEY unto Grantee; without warranty, express or implied, all interest of Grantor, if any, in (1) strips and gores, if any, between the Property and any abutting properties, whether owned or claimed by deed, limitations, or otherwise, and whether located inside or outside the Property; and (2) any land lying in or under the bed of any creek, stream, or waterway or any highway, avenue, street, road, alley, easement or right-of-way, open or proposed, in, or across, abutting or adjacent to the Property.

This conveyance is made and accepted subject to the matters set forth in <u>Exhibit "B"</u> attached hereto and made a part hereof for all purposes, but only to the extent that such exceptions are valid, existing and affect the Property (the "<u>Permitted Exceptions</u>").

TO HAVE AND TO HOLD the Property, subject to the Permitted Exceptions, together with, all and singular, the rights and appurtenances thereto in anywise belonging, unto Grantee, its successors and assigns, forever; and, subject to the Permitted Exceptions, Grantor does hereby bind itself, its successors and assigns, to WARRANT AND FOREVER DEFEND, all and singular, the Property unto Grantee, its successors and assigns, against every person whomsoever lawfully claiming or to claim the same or any part thereof IN ACCORDANCE WITH AND STRICTLY LIMITED BY THE FOLLOWING SPECIFIC LIMITED WARRANTY OF TITLE BUT NOT OTHERWISE, THIS SPECIFIC LIMITED WARRANTY, AS HEREINAFTER SET FORTH, BEING THE ONLY WARRANTY OF TITLE MADE HEREUNDER BY GRANTOR:

Grantor was conveyed title to the Property pursuant to that certain Limited Warranty Deed, dated June 17, 1998, effective the 31st day of December, 1997, and filed in the real property records of Denton County, Texas, on June 19, 1998, under Document No. 98-R0052417 (the "Grantor Deed"). With respect to the Property conveyed by the Grantor Deed, Grantor shall pay to Grantee or its successors and assigns any loss Grantee or its successors and assigns may sustain by reason of defects, liens or encumbrances with respect to which Grantor was given a limited wairanty of title to the Property in the Grantor Deed, such payment and sole liability hereunder on the part of Grantor not to exceed the amount payable to Grantor pursuant to the limited warranty of title contained in the Grantor Deed. This limited warranty shall constitute a limited warranty to Grantee and its successors only as to the same matters for which Grantor received a limited warranty of title and is limited to the amount of the warranty under the Grantor Deed. Under no circumstances shall Grantor be liable to Grantee or its successors for any sum which is not recoverable or payable to Grantor under the warranty of title contained in the Grantor Deed, it being the intention of Grantor to limit Grantor's exposure to any loss incurred by reason of the breach by Grantor of this limited warranty to those sums payable to Grantor under the warranty of title under the Grantor Deed, and no other. It is expressly intended that this specific limited warranty shall extend solely to Grantee and its successors and to no other parties.

This conveyance is being made by Grantor and accepted by Grantee subject to taxes for the year 2009, the payment of which Grantee assumes, and subsequent assessments for that and prior years due to change in land usage, ownership, or both, the payment of which Grantee assumes.

[Remainder of this page intentionally blank.]

EXECUTED this 6th day of July, 2009, to be effective at 11:59p.m, on December 31, 2008.



AIL Investment, L.P., a Texas limited partnership

By: AIL GP, LLC,

a Texas limited liability company, its general partner

M. Thomas Mason

Executive Vice President

THE STATE OF TEXAS

COUNTY OF DALLAS

This instrument was acknowledged before me on this 6th day of July, 2009, by M. Thomas Mason, Executive Vice President of AIL GP, LLC, a Texas limited liability company, the general partner of AIL Investment, L.P., a Texas limited partnership, on behalf of said limited partnership.

KRISTY NEEDHAM
Notary Public, State of Texas
My Commission Expires
February 09, 2012

Notary Public in and for the State of Texas

EXHIBIT "A"

LEGAL DESCRIPTION

[SEE ATTACHED.]

PARCEL NO.1

BEING a tract of land situated in the William Huff Survey, Abstract No. 648, the Jessie Gibson Survey, Abstract No. 592 and No. 593, the J. Bacon Survey, Abstract No. 2026, the Richard Eads Survey, Abstract No. 492, the Jessie Sutton Survey, Abstract No. 1451, the Charles Medlin Survey, Abstract No. 1084, the Greenbury B. Hendricks Survey, Abstract No. 680, and the Memucan Hunt Survey, Abstract No. 756, Tarrant County, Texas, and the Jessie Gibson Survey, Abstract No. 493, the J. Bacon Survey, Abstract No. 1565, the Richard Eads Survey, Abstract No. 393, the Jessie Sutton Survey, Abstract No. 1154, the Charles Medlin Survey, Abstract No. 823, and the M.E.P. and P.R.R. Co. Survey, Abstract No. 923, Denton County, Texas, and being a portion of that certain tract of land described by deed to AIL Investment, L.P., as recorded in Volume 13275, Page 542, County Records, Tarrant County, Texas, and being more particularly described as follows:

BEGINNING at the northeast corner of that certain tract of land described by deed to Westlake Retail Associates, Ltd., as recorded in Clerk's Filing Number 98-R0118649, Real Property Records of Denton County, Texas, said point being in the southerly right-of-way line of State Highway 114 (a variable width right-of-way);

THENCE S 75°23'15"E, 177.04 feet along the southerly right-of-way line of said State Highway 114;

THENCE N 35°10'12"E, 64.12 feet continuing along the southerly right-of-way line of said State Highway 114;

THENCE S 83°32'53"E, 280.71 feet continuing along the southerly right-of-way line of said State Highway 114;

THENCE S 75°20'18"E, 99.79 feet continuing along the southerly right-of-way line of said State Highway 114;

THENCE S 68°06'43"E, 312.60 feet continuing along the southerly right-of-way line of said State Highway 114;

THENCE N 71°04'40"E, 72.01 feet continuing along the southerly right-of-way line of said State Highway 114;

THENCE S 75°23'17"E, 420.11 feet continuing along the southerly right-of-way line of said State Highway 114;

THENCE S 43°54'26"E, 76.22 feet continuing along the southerly right-of-way line of said State Highway 114;

THENCE S 86°58'32"E, 198.85 feet continuing along the southerly right-of-way line of said State Highway 114;

THENCE S 75°13'09"E, 55.83 feet continuing along the southerly right-of-way line of said State Highway 114 to the beginning of a curve to the right;

THENCE continuing along the southerly right-of-way line of said State Highway 114 and with said curve to the right, an arc distance of 1371.81 feet, through a central angle of 10°18'56", having a radius of 7619.44 feet, the long chord of which bears S 70°13'39"E, 1369.96 feet;

THENCE S 65°08'39"E, 819.44 feet continuing along the southerly right-of-way line of said State Highway 114;

THENCE S 61°06'42'E, 300.72 feet continuing along the southerly right-of-way line of said State Highway 114;

THENCE S 72°37'39"E, 151.61 feet continuing along the southerly right-of-way line of said State Highway 114;

THENCE S 65°07'20"E, 472.53 feet continuing along the southerly right-of-way line of said State Highway 114 to the beginning of a curve to the left;

THENCE continuing along the southerly right-of-way line of said State Highway 114 and with said curve to the left, an arc distance of 274.47 feet, through a central angle of 02°44'07", having a radius of 5749.58 feet, the long chord of which bears S 66°27'19"E, 274.45 feet, said point being at the intersection of the southerly right-of-way line of said State Highway 114 and the northwesterly right-of-way line of Westlake Parkway (a variable width right-of-way);

THENCE S 22°10'36"W, 14.00 feet along the northwesterly right-of-way line of said Westlake Parkway;

THENCE S 24°16'35"E, 73.61 feet continuing along the northwesterly right-of-way line of said Westlake Parkway;

THENCE S 19°13'50"W, 299.02 feet continuing along the northwesterly right-of-way line of said Westlake Parkway to the beginning of a curve to the right;

THENCE continuing along the northwesterly right-of-way line of said Westlake Parkway and with said curve to the right, an arc distance of 146.07 feet, through a central angle of 07°10'06", having a radius of 1167.50 feet, the long chord of which bears S 22°48'53"W, 145.97 feet to the beginning of a compound curve to the right;

THENCE continuing along the northwesterly right-of-way line of said Westlake Parkway and with said compound curve to the right, an arc distance of 87.12 feet, through a central angle of 12°28'44", having a radius of 400.00 feet, the long chord of which bears S 32°38'18"W, 86.95 feet;

THENCE S 38°52'40"W, 318.92 feet continuing along the northwesterly right-of-way line of said Westlake Parkway to the beginning of a curve to the right;

THENCE continuing along the northwesterly right-of-way line of said Westlake Parkway and with said curve to the right, an arc distance of 435.19 feet, through a central angle of 29°20'05", having a radius of 850.00 feet, the long chord of which bears S 53°32'42"W, 430.45 feet to the beginning of a compound curve to the right;

THENCE continuing along the northwesterly right-of-way line of said Westlake Parkway and with said compound curve to the right, an arc distance of 149.47 feet, through a central angle of 33°58'22", having a radius of 252.08 feet, the long chord of which bears S 85°11'56"W, 147.29 feet to the beginning of a reverse curve to the left;

THENCE continuing along the northwesterly right-of-way line of said Westlake Parkway and with said reverse curve to the left, an arc distance of 35.64 feet, through a central angle of 30°56'35", having a radius of 66.00 feet, the long chord of which bears S 86°42'50"W, 35.21 feet to the most northerly terminus of said Westlake Parkway;

THENCE S 12°42'02"E, 189.35 feet along the terminus of said Westlake Parkway to the most southerly terminus of said Westlake Parkway and the beginning of a non-tangent curve the right, said point also being in the westerly property line of that certain tract of land described by deed to FMR Texas Limit Partnership, as recorded in Volume 13457, Page 403, County Records, Tarrant County, Texas, and in Clerk's Filing Number 98-R0091571, Real Property Records of Denton County, Texas;

THENCE along the westerly property line of said FMR tract and with said non-tangent curve to the right, an arc distance of 38.39 feet, through a central angle of 01°39'03", having a radius of 1332.50 feet, the long chord of which bears \$ 77°16'36"W, 38.39 feet;

THENCE S 09°40'08"E, 892.93 feet continuing along the westerly property line of said FMR tract;

THENCE S 16°36'28"W, 1518.12 feet continuing along the westerly property line of said FMR tract;

THENCE S 00°59'38"E, 573.79 feet continuing along the westerly property line of said FMR tract;

THENCE S 11°34'10"E, 564.14 feet continuing along the westerly property line of said FMR tract to the northerly right-of-way line of Dove Road (a variable width right-of-way);

THENCE S 70°31'18"W, 349.16 feet along the northerly right-of-way line of said Dove Road to the beginning of a curve the right;

THENCE continuing along the northerly right-of-way line of said Dove Road and with said curve to the right, an arc distance of 253.38 feet, through a central angle of 19°21'24", having a radius of 750.00 feet, the long chord of which bears S 80°12'00"W, 252.18 feet;

THENCE S 89°52'43"W, 361.81 feet continuing along the northerly right-of-way line of said Dove Road to the east property line of that certain tract of land described by deed to AIL Investment, L.P., as recorded in Volume 13544, Page 24, County Records, Tarrant County, Texas;

THENCE N 00°26'57"E, 856.11 feet along the east property line of said AIL tract to the northeast property corner of said AIL tract;

THENCE S 87°44'39"W, 487.27 feet along the north property line of said AIL tract to the northwest property corner of said AIL tract;

THENCE S 00°27'26"W, 837.96 feet along the west property line of said AIL tract returning to the northerly right-of-way line of said Dove Road;

THENCE S 89°52'43"W, 412.49 feet continuing along the northerly right-of-way line of said Dove Road;

THENCE S 88°54'36"W, 100.66 feet continuing along the northerly right-of-way line of said Dove Road to the southeast property corner of that certain tract of land described by deed to DCLI LLC, as recorded in document number D208246568, County Records, Tarrant County, Texas;

THENCE N 01°05'24"W, 1442.77 feet along the east property line of said DCLI tract;

THENCE N 40°02'39"E, 871.03 feet continuing along the east property line of said DCLI tract;

THENCE N 00°32'43"W, 545.49 feet continuing along the east property line of said DCLI tract to northeast property corner of said DCLI tract;

THENCE S 89°27'17"W, 1824.60 feet along the north property line of said DCLI tract to the most northwesterly property corner of said DCLI tract;

THENCE S 58°07'29"W, 519.96 feet along the westerly property line of said DCLI tract;

THENCE S 26°47'41"W, 340.17 feet continuing along the westerly property line of said DCLI tract;

THENCE S 24°21'01"W, 227.62 feet continuing along the westerly property-line of said DCLI tract;

THENCE S 20°32'10"W, 243.20 feet continuing along the westerly property line of said DCLI tract;

THENCE S 00°45'29"E, 357.87 feet continuing along the westerly property line of said DCLI tract to the north property line of that certain tract of land described by deed to AIL Investment, L.P., as recorded in Document Number D208228230, County Records, Tarrant County, Texas;

THENCE S 89°49'56"W, 1895.38 feet along said AIL boundary line and crossing said Ottinger Road and then along the north property line of that certain tract of land described by deed to Hillwood Investment Land, L.P., as recorded in Document Number D207311517, County Records, Tarrant County, Texas, to the northwest property corner of said Hillwood Investment Land tract;

THENCE S 00°05'13"W, 1321.04 feet along said AIL boundary line;

THENCE S 89°14'09"W, 1326.57 feet continuing along said AIL boundary line;

THENCE S 00°38'31"E, 3279.65 feet continuing along said AIL boundary line;

THENCE S 89°25°42"W, 738.33 feet continuing along said AIL boundary line;

THENCE N 01°20'34"W, 432.68 feet continuing along said AIL boundary line;

THENCE S 89°57'12"W, 102.66 feet continuing along said AIL boundary line;

THENCE N 00°06'11"W, 948.90 feet continuing along said AIL boundary line;

THENCE S 89°49'45"W, 1835.53 feet continuing along said AIL boundary line to the most westerly southwest property corner of said AIL tract, being in the approximate center line of Roanoke Road;

THENCE N 00°05'27"W, 1067.63 feet along the boundary line of said AIL tract and in the approximate center line of said Roanoke Road to easterly boundary line of a 5.200 acre Town of Westlake tract described in Volume 15922, page 268, County Records, Tarrant County, Texas, and to the beginning of a non-tangent curve to the left;

THENCE along the easterly boundary line of said 5.200 acre Town of Westlake tract and with said non-tangent curve to the left, an arc distance of 47.56 feet, through a central angle of 03°56'58", having a radius of 690.00 feet, the long chord of which bears N 30°47'19"E, 47.55 feet, to a point in the westerly boundary line of a 2.544 acre Town of Westlake tract dedicated for Roanoke Road right-of-way, as recorded in Volume 15922, Page 266, County Records, Tarrant County, Texas;

THENCE S 00°19'49"E, 155.71 feet along the westerly boundary line of said 2.544 acre tract to the most southerly point in the boundary of said 2.544 acre tract;

THENCE N 26°35'53"E, 165.50 feet along the easterly boundary line of said 2.544 acre tract to the beginning of a curve to the left;

THENCE continuing along the easterly property line of said 2.544 acre tract and with said curve to the left, an arc distance of 616.13 feet, through a central angle of 46°26'58", having a radius of 760.00 feet, the long chord of which bears N 03°22'24"E, 599.39 feet;

THENCE N 19°51'05"W, 216.71 feet continuing along the easterly property line of said 2.544 acre tract to the beginning of a curve to the right;

THENCE continuing along the easterly property line of said 2.544 acre tract and with said curve to the right, an arc distance of 328.80 feet, through a central angle of 20°02'29", having a radius of 940.00 feet, the long chord of which bears N 09°49'50"W, 327.13 feet to the south property line of that certain tract of land described by deed to AIL Investment, L.P., as recorded in Volume 13770, Page 441, County Records, Tarrant County, Texas;

THENCE N 89°30'04"E, 2647.12 feet along the south property line of said AIL tract to the southeast property corner of said AIL tract;

THENCE N 00°14'01"W, 664.18 feet along the east property line of said AIL tract and then along the east property line of that certain tract of land described by deed to AIL Investment, L.P., as recorded in Volume 13770, Page 424, County Records, Tarrant County, Texas, to the northeast property corner of said AIL Investment, L.P., tract as recorded in Volume 13770, Page 424, County Records, Tarrant County, Texas;

THENCE N 89°26'44"W, 2649.59 feet along the north property line of said AIL tract and then along the north property line of that certain tract of land described by deed to AIL Investment, L.P., as recorded in Volume 14178, Page 432, County Records, Tarrant County, Texas, returning to the approximate center line of the aforementioned Roanoke Road;

THENCE N 00°29'48"W, 1619.28 feet along the boundary line of said AIL tract;

THENCE N 87°52'45"E, 23.60 feet continuing along the boundary line of said AIL tract;

THENCE N 00°08'55"E, 131.69 feet continuing along the boundary line of said AIL tract to the southerly right-of-way line of State Highway 170 (a variable width right-of-way);

THENCE N 89°51'27"E, 3.18 feet along the southerly right-of-way line of said State Highway 170;

THENCE N 00°08'34"W, 85.39 feet continuing along the southerly right-of-way line of said State Highway 170 to the beginning of a non-tangent curve to the left;

THENCE continuing along the southerly right-of-way line of said State Highway 170 and with said non-tangent curve to the left, an arc distance of 1381.19 feet, through a central angle of 17°11'24", having a radius of 4603.66 feet, the long chord of which bears N 52°14'43"E, 1376.02 feet;

THENCE N 77°57'39"E, 66.80 feet continuing along the southerly right-of-way line of said State Highway 170;

THENCE N 39°31'08"E, 106.53 feet continuing along the southerly right-of-way line of said State Highway 170;

THENCE N 23°42'12"E, 110.15 feet continuing along the southerly right-of-way line of said State Highway 170 to the beginning of a non-tangent curve to the left;

THENCE continuing along the southerly right-of-way line of said State Highway 170 and with said non-tangent curve to the left, an arc distance of 1174.20 feet, through a central angle of 05°51'39", having a radius of 11479.16 feet, the long chord of which bears N 37°35'29"E, 1173.69 feet;

THENCE N 34°39'39"E, 983.30 feet continuing along the southerly right-of-way line of said State Highway 170;

THENCE S 75°41'23"E, 65.50 feet continuing along the southerly right-of-way line of said State Highway 170;

THENCE N 89°53'30"E, 19.84 feet continuing along the southerly right-of-way line of said State Highway 170 to a point in the westerly property line of the aforementioned Westlake Retail Associates, Ltd tract;

THENCE S 00°40'26"E, 217.45 feet along the westerly property line of said Westlake Retail Associates, Ltd tract to the most northerly property corner of that certain Save and Except tract (First tract), recorded in the aforementioned AIL Investment, L.P., as recorded in Volume 13275, Page 542, County Records, Tarrant County, Texas and in Clerk's Filing Number 98-R0052417, Real Property Records of Denton County, Texas;

THENCE S 00°37'40"E, 73.60 feet along the west property line of said Save and Except tract;

THENCE N 89°10'35"W, 284.94 feet continuing along the west property line of said Save and Except tract;

THENCE S 00°44'51"E, 1502.61 feet continuing along the west property line of said Save and Except tract;

THENCE S 89°57'50"W, 10.00 feet continuing along the west property line of said Save and Except tract;

THENCE S 00°07'14"E, 946.45 feet continuing along the west property line of said Save and Except tract to the southwest property corner of said Save and Except tract;

THENCE N 89°52'59"E, 1461.16 feet along the south property line of said Save and Except tract to the northwest property corner of that certain 24.59 acre Town of Westlake tract, recorded in Volume 15818, Page 117, County Records, Tarrant County, Texas;

THENCE S 66°58'16"E, 192.22 feet along the west property line of said 24.59 acre Town of Westlake tract;

THENCE S 07°25'33"E, 180.88 feet continuing along the west property line of said 24.59 acre Town of Westlake tract;

THENCE S 21°24'47"E, 39.07 feet continuing along the west property line of said 24.59 acre Town of Westlake tract;

THENCE S 11°10'47"E, 94.09 feet continuing along the west property line of said 24.59 acre
Town of Westlake tract;

THENCE S 34°58'57"E, 140.91 feet continuing along the west property line of said 24.59 acre Town of Westlake tract;

THENCE S 54°13'31"E, 60.78 feet continuing along the west property line of said 24.59 acre Town of Westlake tract;

THENCE S 23°41'47"E, 109.17 feet continuing along the west property line of said 24.59 acre Town of Westlake tract to the southwest property corner of said 24.59 acre Town of Westlake tract;

THENCE N 89°49'56"E, 1012.80 feet along the south property line of said 24.59 acre Town of Westlake tract to the beginning of a curve to the left;

THENCE continuing along the south property line of said 24.59 acre Town of Westlake tract and with said curve to the left, an arc distance of 62.32 feet, through a central angle of 08°17'02", having a radius of 431.03 feet, the long chord of which bears N 85°40'05"E, 62.27 feet to the northwest corner of a variable width right-of-way dedication, as recorded in Volume 16653, Page 89, County records, Tarrant County, Texas;

THENCE S 00°02'05"E, 125.19 feet along the west terminus of said right-of-way dedication to the southwest corner of said right-of-way dedication;

THENCE N 89°57'55"E, 51.18 feet along the south right-of-way line of said right-of-way dedication;

THENCE N 43°06'40"E, 154.03 feet continuing along the south right-of-way line of said right-of-way dedication to the beginning of a non-tangent curve to the left;

THENCE continuing along the south right-of-way line of said right-of-way dedication and with said non-tangent curve to the left, an arc distance of 320.00 feet, through a central angle of 37°20'29", having a radius of 491.00 feet, the long chord of which bears N 44°43'50"E, 314.37 feet;

THENCE N 26°03'35"E, 100.00 feet continuing along the south right-of-way line of said right-of-way dedication to the beginning of a curve to the right;

THENCE continuing along the south right-of-way line of said right-of-way dedication and with said curve to the right, an arc distance of 124.87 feet, through a central angle of 12°54'51", having a radius of 554.00 feet, the long chord of which bears N 32°31'00"E, 124.61 feet;

THENCE N 38°58'25"E, 195.82 feet continuing along the south right-of-way line of said right-of-way dedication to the northeast corner of said right-of-way dedication;

THENCE N 51°01'35"W, 60:00 feet along the northeasterly terminus of said right-of-way dedication to a point in the east property line of the aforementioned 24.59 acre Town of Westlake tract and being the beginning of a curve to the right;

THENCE along the east property line of said 24.59 acre Town of Westlake tract and with said curve to the right, an arc distance of 612.92 feet, through a central angle of 30°17'41", having a radius of 1159.20 feet, the long chord of which bears N 34°31'13"W, 605.80 feet to the most northerly corner of said 24.59 acre Town of Westlake tract and also being in the east property line of the aforementioned Save and Except tract;

THENCE N 00°47'59"W, 1267.03 feet along the east property line of said Save and Except tract to the northeast property corner of said Save and Except tract;

THENCE N 89°54'00"W, 803.58 feet along the north property line of said Save and Except tract;

THENCE S 01°46'29"E, 315.42 feet continuing along the north property line of said Save and Except tract;

THENCE N 89°59'37"W, 630.18 feet continuing along the north property line of said Save and Except tract;

THENCE N 76°13'43"W, 210.12 feet continuing along the north property line of said Save and Except tract;

THENCE N 41°18'15"W, 569.57 feet continuing along the north property line of said Save and Except tract to the southerly property line of the aforementioned Westlake Retail Associates, Ltd., tract and the beginning of a non-tangent curve to the right;

THENCE along the southerly property line of said with said Westlake Retail Associates, Ltd., tract and with said non-tangent curve to the right, an arc distance of 128.75 feet, through a central angle of 03°55'08", having a radius of 1882.50 feet, the long chord of which bears N 88°08'26"E, 128.73 feet;

THENCE S 89°54'00"E, 898.42 feet continuing along the southerly property line of said Westlake Retail Associates, Ltd., tract;

THENCE N 00°32'44"W, 45.96 feet continuing along the southerly property line of said Westlake Retail Associates, Ltd., tract to the beginning of a curve to the right;

THENCE continuing along the southerly property line of said Westlake Retail Associates, Ltd., tract and with said curve to the right, an arc distance of 47.12 feet, through a central angle of 90°00'00", having a radius of 30.00 feet, the long chord of which bears N 44°27'16"E, 42.43 feet;

THENCE N'89°27'16'E, 32.96 feet continuing along the southerly property line of said Westlake Retail Associates, Ltd., tract;

THENCE N 50°57'27"E, 12.08 feet continuing along the southerly property line of said Westlake Retail Associates, Ltd., tract to the beginning of a non-tangent curve to the left;

THENCE continuing along the southerly property line of said Westlake Retail Associates, Ltd., tract and with said non-tangent curve to the left, an arc distance of 481.24 feet, through a central angle of 67°31'55", having a radius of 408.29 feet, the long chord of which bears N 33°13'14"E, 453.86 feet to the beginning of a reverse curve to the right;

THENCE continuing along the southerly property line of said Westlake Retail Associates, Ltd., tract and with said reverse curve to the right, an arc distance of 47.12 feet, through a central angle of 90°00'01", having a radius of 30.00 feet, the long chord of which bears N 44°27'16"E, 42.43 feet;

THENCE N 89°27'16"E, 170.26 feet continuing along the southerly property line of said Westlake Retail Associates, Ltd., tract;

THENCE S 00°32'44"E, 49.98 feet continuing along the southerly property line of said Westlake Retail Associates, Ltd., tract;

THENCE N 89°27'16"E, 11.14 feet continuing along the southerly property line of said Westlake Retail Associates, Ltd., tract to the beginning of a non-tangent curve to the left;

THENCE continuing along the southerly property line of said Westlake Retail Associates, Ltd., tract and with said non-tangent curve to the left, an arc distance of 33.89 feet, through a central angle of 10°47'26", having a radius of 179.93 feet, the long chord of which bears S 28°08'13"E, 33.84 feet;

THENCE S 89°27'16"W, 16.72 feet continuing along the southerly property line of said Westlake Retail Associates, Ltd., tract to the beginning of a non-tangent curve to the left;

THENCE continuing along the southerly property line of said Westlake Retail Associates, Ltd., tract and with said non-tangent curve to the left, an arc distance of 205.35 feet, through a central angle of 60°21'43", having a radius of 194.92 feet, the long chord of which bears \$\frac{9}{60}\$ 53'46"E, 195.99 feet;

THENCE N 89°27'16"E, 194.11 feet continuing along the southerly property line of said Westlake Rétail Associates, Ltd., tract;

THENCE N 00°32'44"W, 25.20 feet continuing along the southerly property line of said Westlake Retail Associates, Ltd., tract;

THENCE N 89°27'16"E, 78.72 feet continuing along the southerly property line of said Westlake Retail Associates, Ltd., tract to the beginning of a non-tangent curve to the left;

THENCE continuing along the southerly property line of said Westlake Retail Associates, Ltd., tract and with said non-tangent curve to the left, an arc distance of 293.43 feet, through a central angle of 79°36'02", having a radius of 211.21 feet, the long chord of which bears N 89°27'16"E, 270.39 feet;

THENCE N 89°27'16"É, 127.87 feet continuing along the southerly property line of said Westlake Retail Associates, Ltd., tract to the southeast property corner of said Westlake Retail Associates, Ltd., tract;

THENCE N 00°07'00"W, 245.16 feet along the east property line of said Westlake Retail Associates, Ltd., tract to the beginning of a curve to the right;

THENCE continuing along the east property line of said Westlake Retail Associates, Ltd., tract and with said curve to the right, an arc distance of 783.77 feet, through a central angle of 17°32'30", having a radius of 2560.00 feet, the long chord of which bears N 08°39'15"E, 780.71 feet;

THENCE N 17°25'30"E, 477.17 feet continuing along the east property line of said Westlake Retail Associates, Ltd., tract to the **Point of Beginning** and containing 41,459,876 square feet or 951.788 acres of land more or less.

PARCEL No. 2

BEING a tract of land situated in the William Huff Survey, Abstract No. 648, Tarrant County Texas and being a portion of that tract of land (Tract 1) as described in a deed to AIL Investment, L.P. as recorded in Deed Volume 13275, Page 542, County Records, Tarrant County, Texas, and being more particularly described as follows:

BEGINNING at the northwest corner of said Tract 1 being a point in the east right-of-way line of former State Highway 377 (now abandoned in this location);

THENCE N89°39'29"E, 30.74 feet along the north line of said Tract 1 to a point in the existing westerly right-of-way line of State Highway 377;

THENCE S10°32'14"W, 395,27 feet along said existing westerly right-of-way line to the beginning of a curve to the right,

THENCE 71.53 feet along the arc of said curve to the right and along said right-of-way line, through a central angle of 00°43'29", whose radius is 5654.58 feet, the long chord of which bears S10°53'10"W, 71.53 feet;

THENCE S89°53'00"W, 154.08 feet, leaving said existing right-of-way line to a point in the west line of said tract 1;

THENCE N24°29'49"E, 504.37 feet along said west line of Tract 1 to the POINT OF BEGINNING, and containing 0.975 acres of land, more or less.

EXHIBIT "B"

PERMITTED EXCEPTIONS

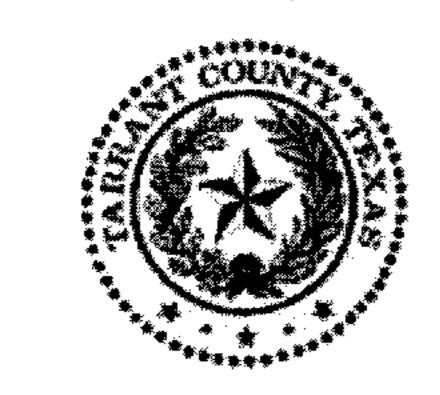
- 1. With respect to any portion of the Property conveyed to Grantor by the Grantor Deed, any matters listed as exceptions in the those respective deeds.
- 2. With respect to any portion of the Property conveyed to Grantor by the Grantor Deed, any matter executed and delivered by Grantor since the dates of such deeds and recorded in the Real Property Records of Denton and Tarrant Counties, Texas.
- 3. Any matter that a current and accurate survey of the Property would reveal.

MICHEAL E JONES 350 N ST PAUL ST STE 2900

DALLAS

TX 75201

Submitter: SUPER SEARCH



SUZANNE HENDERSON
TARRANT COUNTY CLERK
TARRANT COUNTY COURTHOUSE
100 WEST WEATHERFORD
FORT WORTH, TX 76196-0401

<u>DO NOT DESTROY</u> <u>WARNING - THIS IS PART OF THE OFFICIAL RECORD.</u>

Filed For Registration:

07108/2009 11:08 AM

instrument #:

D209481337

D 18 PGS

\$80.00

By:



D209181337

ANY PROVISION WHICH RESTRICTS THE SALE, RENTAL OR USE OF THE DESCRIBED REAL PROPERTY BECAUSE OF COLOR OR RACE IS INVALID AND UNENFORCEABLE UNDER FEDERAL LAW.

Printed by: MC

ATTACHMENT 5 Consent Letter showing Applicant's Right to Use of Land

HW 2421 LAND, LP 9800 Hillwood Parkway, Suite 300 Fort Worth, TX 76177

November 19, 2021

Texas Commission on Environmental Quality Water Availability Division, MC-160 12100 Park 35 Circle Austin, Texas 78753

Re: HW 2421 Land, LP - Consent Letter

To Whom it May Concern,

I, L. Russell Laughlin, in my capacity as Executive Vice President of HW 2421 Land, LP, hereby consent to the use by Independence Water of the 4.79 acre parcel, identified as tracts 1 and 1b in the Jesse Sutton Survey, Abstract 1451 in Tarrant County, Texas, for a water use permit.

Regards,

HW 2421 LAND, LP, a Texas limited partnership

By: HW 2421 Land GP, LLC, a Texas limited liability company, its general partner

Na:

Name:

le: Executive Vice Pre

STATE OF TEXAS
COUNTY OF TARRANT

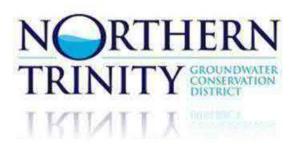
STEPHANIE WRIGHT
Notary Public, State of Texas
Comm. Expires 01-31-2025
Notary ID 130986511

Notary Public, State of Texas

ATTACHMENT 6 Notice to Proceed Letters from Northern Trinity Groundwater Conservation District

Subject:

FW: Notice to Proceed- Independence Water, L.P.- N-2021-0110 (Permit 47)- Paluxy 1_ 2451 Westlake Parkway



Tarrant County 1100 Circle Drive, Suite 300 Fort Worth, TX 76119 817.249.2062 Voice Fax 817.249.2918

June 17, 2021

Russell Langford Associated Well Services 1215 US 67 Stephenville, TX 76401

Email:

RE:

Independence Water, L.P.- N-2021-0110 (Permit 47)- Paluxy 1 2451 Westlake Parkway Westlake, TX 76262

Dear Russell:

This letter serves as the <u>Notice to Proceed</u>. Compliance with the spacing and location requirements of the NTGCD rules does not necessarily authorize a person to drill a well at a specified location in the District. Agencies or other political subdivisions of the State of Texas that are located in whole or in part within the boundaries of the District may impose additional requirements related to the drilling or completion of water wells.

Please keep in mind that you have 120 days (240 days for public water system) from the date of approval (date of notice) to drill and complete the new water well.

The state well log must be filed with the District within 60 days of completion. Failure to timely file the well report will result in forfeiture of the driller's well report deposit of \$200.00 and subject the registrant to enforcement action.

If you have any questions, please contact me at 817.249.2062.

Thank you,

Corey Jones NTGCD Subject:

FW: Notice to Proceed- Independence Water, L.P.- N-2021-0111 (Permit 49)_ 2451 Westlake Parkway



Tarrant County 1100 Circle Drive, Suite 300 Fort Worth, TX 76119 817.249.2062 Voice Fax 817.249.2918

June 17, 2021

Russell Langford Associated Well Services 1215 US 67 Stephenville, TX 76401

Email:

RE:

Independence Water, L.P.- N-2021-0111 (Permit 49) 2451 Westlake Parkway Westlake, TX 76262

Dear Russell:

This letter serves as the <u>Notice to Proceed</u>. Compliance with the spacing and location requirements of the NTGCD rules does not necessarily authorize a person to drill a well at a specified location in the District. Agencies or other political subdivisions of the State of Texas that are located in whole or in part within the boundaries of the District may impose additional requirements related to the drilling or completion of water wells.

Please keep in mind that you have 120 days (240 days for public water system) from the date of approval (date of notice) to drill and complete the new water well.

The state well log must be filed with the District within 60 days of completion. Failure to timely file the well report will result in forfeiture of the driller's well report deposit of \$200.00 and subject the registrant to enforcement action.

If you have any questions, please contact me at 817.249.2062.

Thank you,

Corey Jones NTGCD **Subject:**

Notice to Proceed- Independence Water, L.P.- N-2021-0112 (Permit 48)- Trinity Well_ 2451 Westlake Parkway



Tarrant County 1100 Circle Drive, Suite 300 Fort Worth, TX 76119 817.249.2062 Voice Fax 817.249.2918

June 17, 2021

Russell Langford Associated Well Services 1215 US 67 Stephenville, TX 76401

Email:

RE:

Independence Water, L.P.- N-2021-0112 (Permit 48)- Trinity Well 2451 Westlake Parkway Westlake, TX 76262

Dear Russell:

This letter serves as the <u>Notice to Proceed</u>. Compliance with the spacing and location requirements of the NTGCD rules does not necessarily authorize a person to drill a well at a specified location in the District. Agencies or other political subdivisions of the State of Texas that are located in whole or in part within the boundaries of the District may impose additional requirements related to the drilling or completion of water wells.

Please keep in mind that you have 120 days (240 days for public water system) from the date of approval (date of notice) to drill and complete the new water well.

The state well log must be filed with the District within 60 days of completion. Failure to timely file the well report will result in forfeiture of the driller's well report deposit of \$200.00 and subject the registrant to enforcement action.

If you have any questions, please contact me at 817.249.2062.

Thank you,

Corey Jones NTGCD

ATTACHMENT 7

Addendum to Worksheet 5.0

- a. Indicate the measures the applicant will take to avoid impingement and entrainment of aquatic organisms.
 - No impingement or entrainment of aquatic resources is anticipated since water will be allows to flow out naturally through the proposed outlet (no screens on the outlet pipe are proposed) and any organism that could potentially pass through the outlet pipe could find habitat downstream of the project area.
- b. An assessment of the adequacy of the quantity and quality of flows remaining after the proposed diversion to meet instream uses and bay and estuary freshwater inflow requirements.
 - No diversion of state water will occur at this location. Additionally, no loss of water is proposed at this location. No water loss would result in no impact to bay and estuary freshwater inflows.
- c. If groundwater is the alternate source, or groundwater or other surface water will be discharged into a watercourse provide reasonably current water chemistry information. If data for onsite well is not available, historic data collected from similar sized wells drawing water from the same aquifer may be provided.

Please Attachment 6 for sample data from the groundwater well.

ATTACHMENT 8

Analytical Results



Pace Analytical® ANALYTICAL REPORT

June 07, 2021

Peloton Land Solutions

L1349545 Sample Delivery Group:

Samples Received: 05/07/2021

Project Number:

Description: Well Water Testing

Report To: Chris Hamilton

9800 Hillwood Parkway

Fort Worth, TX 76177

















Entire Report Reviewed By:

MIDWRX

Amy Bryant

Project Manager Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received. Pace Analytical National

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33

SAMPLE SUMMARY

WELL HOUSE 2 L1349545-01 WW

Wet Chemistry by Method SM5210B

Mercury by Method 245.1

Metals (ICP) by Method 200.7

Metals (ICP) by Method 200.7

Collected by David Bryant

05/07/21 12:15

Collected date/time Received date/time

05/07/2112:59

AME

CDP

EL

CDP

Allen, TX

Allen, TX

Mt. Juliet, TN

Allen, TX

05/13/21 07:28

05/28/21 16:24

05/15/21 13:18

05/28/21 17:41

² Tc



















WG1666760

WG1679290

WG1670272

WG1678520

1

1

05/08/21 07:26

05/28/21 12:40

05/14/21 09:52

05/28/21 12:51

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.























MadeRt

Sample Delivery Group (SDG) Narrative

The following analysis were performed from an unpreserved, insufficiently or inadequately preserved sample.

Lab Sample ID

Project Sample ID

Method 5310C

L1349545-01

WELL HOUSE 2

SAMPLE RESULTS - 01

Collected date/time: 05/07/21 12:15

Microbiology by Method 9223B

• • •						
	Result	Qualifier	Dilution	Analysis	Batch	
Analyte				date / time		
Coliform,Total	<1	<u>T8</u>	1	05/11/2021 09:17	WG1668183	
F.Coli	<1	T8	1	05/11/2021 09:17	WG1668183	





Ss

Calculated Results

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Nitrogen	0.679		0.0500	1	05/13/2021 14:05	WG1667552
Silica	12.7		0.428	1	05/15/2021 13:18	WG1670272



⁵Sr

Gravimetric Analysis by Method 2540C

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Total Dissolved Solids	502		25.0	1	05/11/2021 14:31	<u>WG1668480</u>



GI

Gravimetric Analysis by Method 2540D

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Suspended Solids	7.00		2.50	1	05/12/2021 13:51	WG1669154



ΆΙ

Wet Chemistry by Method 120.1

	Result	Qualifier	RDL	Dilution	Analysis	Batch	
Analyte	umhos/cm		umhos/cm		date / time		
Specific Conductance	877		1.00	1	05/11/2021 16:14	WG1668222	

Wet Chemistry by Method 180.1

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	NTU		NTU		date / time	
Turbidity	1.76		1.50	1	05/08/2021 10:19	WG1666857

Wet Chemistry by Method 2320B

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Alkalinity	394		20.0	1	05/11/2021 11:30	WG1668326
Alkalinity,Bicarbonate	<20.0		20.0	1	05/11/2021 11:30	WG1668326
Alkalinity,Carbonate	704		20.0	1	05/11/2021 11:30	WG1668326
Phenolphthalein Alkalinity	42.0		20.0	1	05/11/2021 11:30	WG1668326

Wet Chemistry by Method 300.0

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Bromide	<0.400		0.400	1	05/11/2021 13:47	WG1668110
Chloride	6.67		0.800	1	05/11/2021 13:47	WG1668110
Fluoride	0.522		0.500	1	05/11/2021 13:47	WG1668110
Nitrate	<0.500		0.500	1	05/08/2021 09:48	WG1666850
Nitrite	<0.500		0.500	1	05/08/2021 09:48	WG1666850
Sulfate	40.4		7.00	10	05/11/2021 14:41	WG1668110

Wet Chemistry by Method 350.1

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Ammonia Nitrogen	0.522		0.250	1	05/12/2021 16:45	WG1668660

WELL HOUSE 2

SAMPLE RESULTS - 01

Collected date/time: 05/07/21 12:15 Wet Chemistry by Method 351.2

	Result	Qualifier	RDL	Dilution	Analysis	<u>Batch</u>
Analyte	mg/l		mg/l		date / time	
Kieldahl Nitrogen, TKN	0.370		0.250	1	05/14/2021 10:08	WG1669309

Wet Chemistry by Method 353.2

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Nitrate-Nitrite	<0.0500		0.0500	1	05/10/2021 17:24	WG1667552



Wet Chemistry by Method 4500Cl G-2011

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Chlorine,residual	<0.100	<u>T8</u>	0.100	1	05/10/2021 12:02	<u>WG1664907</u>



Cn

Wet Chemistry by Method 4500P-E

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Phosphorus, Total	<0.0500		0.0500	1	05/13/2021 14:51	WG1668900



Wet Chemistry by Method 5310C

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
TOC (Total Organic Carbon)	1.45		0.700	1	06/01/2021 17:26	WG1680844



ΆΙ

Wet Chemistry by Method SM 4500-H+B

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	Su			date / time	
рН	9.22	<u>T8</u>	1	05/11/2021 10:34	WG1668148

Sample Narrative:

L1349545-01 WG1668148: 9.22 at 21.9C

Wet Chemistry by Method SM5210B

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
BOD	<2.00		2.00	1	05/13/2021 07:28	WG1666760

Mercury by Method 245.1

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Mercury	<0.000200		0.000200	1	05/28/2021 16:24	WG1679290

Metals (ICP) by Method 200.7

	Result	Qualifier	RDL	Dilution	Analysis	<u>Batch</u>
Analyte	mg/l		mg/l		date / time	
Aluminum	<0.500		0.500	1	05/28/2021 17:41	WG1678520
Antimony	<0.0250		0.0250	1	05/28/2021 17:41	WG1678520
Arsenic	< 0.0200		0.0200	1	05/28/2021 17:41	WG1678520
Barium	<0.0100		0.0100	1	05/28/2021 17:41	WG1678520
Beryllium	< 0.00100		0.00100	1	05/28/2021 17:41	WG1678520
Boron	0.399		0.100	1	05/28/2021 17:41	WG1678520
Cadmium	<0.00500		0.00500	1	05/28/2021 17:41	WG1678520
Calcium	1.03		1.00	1	05/28/2021 17:41	WG1678520
Chromium	< 0.00700		0.00700	1	05/28/2021 17:41	WG1678520

6 of 34

WELL HOUSE 2

SAMPLE RESULTS - 01

L1349545

Metals (ICP) by Method 200.7

Collected date/time: 05/07/21 12:15

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	_
Cobalt	<0.00250		0.00250	1	05/28/2021 17:41	WG1678520
Copper	0.135		0.0200	1	05/28/2021 17:41	WG1678520
Iron	<0.500		0.500	1	05/28/2021 17:41	WG1678520
Lead	<0.0100		0.0100	1	05/28/2021 17:41	WG1678520
Magnesium	<1.00		1.00	1	05/28/2021 17:41	WG1678520
Manganese	<0.0500		0.0500	1	05/28/2021 17:41	WG1678520
Nickel	<0.0100		0.0100	1	05/28/2021 17:41	WG1678520
Potassium	<1.00		1.00	1	05/28/2021 17:41	WG1678520
Selenium	<0.0200		0.0200	1	05/28/2021 17:41	WG1678520
Silver	<0.00500		0.00500	1	05/28/2021 17:41	WG1678520
Sodium	206		1.00	1	05/28/2021 17:41	WG1678520
Strontium	0.0687		0.00500	1	05/28/2021 17:41	WG1678520
Silicon	5.94		0.200	1	05/15/2021 13:18	WG1670272
Zinc	0.329		0.0250	1	05/28/2021 17:41	WG1678520





















QUALITY CONTROL SUMMARY

Microbiology by Method 9223B

L1349545-01

Method Blank (MB)

(MB) R3652799-1 (05/11/21 09:17				Ср
	MB Result	MB Qualifier	MB MDL	MB RDL	2
Analyte					² Tc
Coliform,Total	<1				
E.Coli	<1				³ S s

L1349545-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1349545-01 05/11/21 09:17 • (DUP) R3652799-2 05/11/21	799-2 05/11/21 09) R3652799-2	 (DUP) 	1 09:17	05/11/2	L1349545-01	(OS)
---	-------------------	--------------	---------------------------	---------	---------	-------------	------

,	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte				%		%
Coliform,Total	<1	<1	1	0.000		20
E.Coli	<1	<1	1	0.000		20











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QUALITY CONTROL SUMMARY

Gravimetric Analysis by Method 2540C

L1349545-01

Method Blank (MB)

(MB) R3653454-1 05/11/2114:31									
	MB Result	MB Qualifier	MB MDL	MB RDL					
Analyte	mg/l		mg/l	mg/l					
Total Dissolved Solids	<25.0		25.0	25.0					





Ss

L1349545-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1349545-01 05/11/21 14:31 • (DUP) R3653454-3 05/11/21 14:31

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Total Dissolved Solids	502	513	1	2.17		5



[†]Cn





Laboratory Control Sample (LCS)

(LCS) R3653454-2 05/11/21 14:31

(200) 1.0000 10 1 2 00/11/1						
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier	
Analyte	mg/l	mg/l	%	%		
Total Dissolved Solids	250	260	104	85.0-115		







DATE/TIME:

QUALITY CONTROL SUMMARY

Gravimetric Analysis by Method 2540D

L1349545-01

Method Blank (MB)

(MB) R3653822-1 05/12/2113:51									
	MB Result	MB Qualifier	MB MDL	MB RDL					
Analyte	mg/l		mg/l	mg/l					
Suspended Solids	<2.50		2.50	2.50					





L1349446-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1349446-01 05/12/21 13:51 • (DUP) R3653822-3 05/12/21 13:51

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Suspended Solids	273	300	1	9.31		10



Cn



⁶Qc

L1349986-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1349986-03 05/12/21 13:51 • (DUP) R3653822-4 05/12/21 13:51

(00) 210 10000 00 00/12/2	Original Result				DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Suspended Solids	287	280	1	2.36		10





Laboratory Control Sample (LCS)

(LCS) R3653822-2 05/12/2113:51

QUALITY CONTROL SUMMARY

L1349545-01

Wet Chemistry by Method 120.1

Method Blank (MB)

(MB) R3653047-1 05/11/21 16:14									
	MB Result	MB Qualifier	MB MDL	MB RDL					
Analyte	umhos/cm		umhos/cm	umhos/cm					
Specific Conductance	<1.00		1.00	1.00					





Ss

L1349436-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1349436-01 05/11/21 16:14 • (DUP) R3653047-3 05/11/21 16:14

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	umhos/cm	umhos/cm		%		%
Specific Conductance	353	353	1	0.000		20







Laboratory Control Sample (LCS)

(LCS) R3653047-2 05/11/21 16:14

,	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	umhos/cm	umhos/cm	%	%	
Specific Conductance	200	189	94.4	80.0-120	





QUALITY CONTROL SUMMARY

L1349545-01

Wet Chemistry by Method 180.1

Method Blank (MB)

(MB) R3651947-1	05/08/21 10:19

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	NTU		NTU	NTU
Turbidity	<0.641		0.641	1.50



Ss

L1349545-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1349545-01 05/08/21 10:19 • (DUP) R3651947-2 05/08/21 10:19

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	NTU	NTU		%		%
Turbidity	1.76	1.78	1	1.13		20



[†]Cn











PAGE: 12 of 34

QUALITY CONTROL SUMMARY

Wet Chemistry by Method 2320B Method Blank (MB)

(MR) R3652991-1 05/11/21 11:30

(IVID) K3032991-1 03/11/2	111.50			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Alkalinity	<20.0		20.0	20.0
Alkalinity,Bicarbonate	<20.0		20.0	20.0
Alkalinity,Carbonate	<20.0		20.0	20.0
Phenolphthalein Alkalinity	<20.0		20.0	20.0







L1347307-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1347307-01 05/11/21 11:30 • (DUP) R3652991-3 05/11/21 11:30

	Original Result	DUP Result			DUP Qualifier	DUP RPD Limits
lyte	mg/l	mg/l		%		%
Alkalinity	88.0	98.0	1	10.8		20





L1349545-01 Original Sample (OS) • Duplicate (DUP)

(OS) L13/495/15-01 05/11/21 11:30 • (DLIP) P3652991-/ 05/11/21 11:30

(03) [1343343-01 03/11/21	11.50 (DOI) K	3032331-4 00	J/11/21 11.5	,		
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Alkalinity	394	328	1	18.3		20



Laboratory Control Sample (LCS)

(LCS) R3652991-2 05/11/21 11:30

06/07/21 12:16

QUALITY CONTROL SUMMARY

L1349545-01

Wet Chemistry by Method 300.0

Method Blank (MB)

(MB) R3652291-1 05/08	/21 09:12			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Nitrate	<0.207		0.207	0.500
Nitrite	< 0.0922		0.0922	0.500





Laboratory Control Sample (LCS)

(LCS) R3652291-2 05/08/21 09:30

(LC3) K3032231-2 03/06/	/2109.50				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Nitrate	5.00	4.90	98.0	90.0-110	
Nitrite	5.00	5.23	105	90.0-110	







L1349545-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1349545-01_05/08/21 09:48 • (MS) R3652291-3_05/08/21 10:05 • (MSD) R3652291-4_05/08/21 10:23

(03) [1343343-01 03/00/2	1 03.40 (1013)	13032231-3 0	3/00/21 10.03	(IVISD) 1(3032.	231-4 03/00/2	110.25						
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Nitrate	5.00	<0.500	4.74	4.60	94.7	92.0	1	90.0-110			2.94	20
Nitrite	5.00	< 0.500	5 31	5 19	106	104	1	90 0-110			2 34	20





QUALITY CONTROL SUMMARY

L1349545-01

Method Blank (MB)

Wet Chemistry by Method 300.0

(MB) R3653255-1 05/11/21 10:13

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Bromide	<0.0763		0.0763	0.400
Chloride	0.163	<u>J</u>	0.0541	0.800
Fluoride	<0.198		0.198	0.500
Sulfate	< 0.393		0.393	0.700









Laboratory Control Sample (LCS)

(LCS) R3653255-2 05/11/21 10:31

(200) 110000200 2 00/11/2					
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Bromide	5.00	5.04	101	90.0-110	
Chloride	5.00	4.82	96.5	90.0-110	
Fluoride	5.00	4.65	92.9	90.0-110	
Sulfate	5.00	4.99	99.9	90.0-110	







⁸Al

L1349545-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

 $(OS) \, L1349545 - O1 \quad O5/11/21 \, 13:47 \, \bullet \, (MS) \, R3653255 - 3 \quad O5/11/21 \, 14:05 \, \bullet \, (MSD) \, R3653255 - 4 \quad O5/11/21 \, 14:23 \, (MSD) \, R3653255 - 4 \quad O5/11/21 \, 14:23 \, (MSD) \, R3653255 - 4 \, O5/11/21 \, (MSD) \, R365325 - 4 \, O5/11/21 \, (MSD) \, R365325 - 4 \, O5/11/21 \, (MSD) \, R365325$

(00) 210 100 10 01 00/1	1/21 10.17 (1110) 13	3000200 0 00	7172111.00	(11102) 11000020	00/11/21	11.20						
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Bromide	5.00	<0.400	5.16	5.31	98.3	101	1	90.0-110			2.97	20
Chloride	5.00	6.67	11.2	11.3	90.6	93.2	1	90.0-110			1.16	20
Fluoride	5.00	0.522	5.13	5.30	92.1	95.5	1	90.0-110			3.24	20

⁹Sc

L1349545-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1349545-01 05/11/21 14:41 • (MS) R3653255-5 05/11/21 14:59 • (MSD) R3653255-6 05/11/21 15:16

(,	, ,	Original Result		MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Sulfate	50.0	40.4	92.2	94.5	104	108	10	90.0-110			2.47	20

QUALITY CONTROL SUMMARY

L1349545-01

Wet Chemistry by Method 350.1

Method Blank (MB)

(MB) R3653782-1	05/12/21 16:15	

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Ammonia Nitrogen	<0.117		0.117	0.250





³Ss

L1349278-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1349278-01 05/12/21 16:25 • (DUP) R3653782-5 05/12/21 16:27

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Ammonia Nitrogen	7.21	7.12	5	1.31		10





⁶Qc

L1349851-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1349851-02 05/12/21 16:50 • (DUP) R3653782-7 05/12/21 16:52

(03) 11343631-02 03/12/2	Original Result			DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Ammonia Nitrogen	<0.250	<0.250	1	0.000		10



⁹Sc

Laboratory Control Sample (LCS)

(LCS) R3653782-2 05/12/21 16:17

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Ammonia Nitrogen	7.50	7.76	103	90.0-110	

L1345935-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1345935-01 05/12/21 16:20 • (MS) R3653782-3 05/12/21 16:22 • (MSD) R3653782-4 05/12/21 16:24

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits	
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%	
Ammonia Nitrogen	5.00	<0.250	4.56	4.91	91.2	98.1	1	90.0-110			7.29	10	

L1349851-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1349851-01 05/12/21 16:47 • (MS) R3653782-6 05/12/21 16:49

	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits
Analyte	mg/l	mg/l	mg/l	%		%
Ammonia Nitrogen	5.00	0.483	5.36	97.5	1	90.0-110

QUALITY CONTROL SUMMARY

Wet Chemistry by Method 351.2

Method Blank (MB)

(MB) R3654088-1 05/13	/21 10:59			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Kjeldahl Nitrogen, TKN	<0.140		0.140	0.250





Ss

Method Blank (MB)

(МВ) 11303-1333 1	MD D!t
(MB) R3654399-1	05/14/21 09:30

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Kjeldahl Nitrogen, TKN	<0.140		0.140	0.250





L1348424-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1348424-01 05/13/21 11:17 • (DUP) R3654088-3 05/13/21 11:06

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Kjeldahl Nitrogen, TKN	18.9	17.8	1	5.99		20





Sc

L1349443-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1349443-01 05/13/21 13:49 • (DUP) R3654088-5 05/13/21 11:21

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Kjeldahl Nitrogen, TKN	2.00	2.15	1	7.23		20

L1349443-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1349443-01 05/14/21 09:56 • (DUP) R3654399-4 05/14/21 09:57

(,	Original Result			DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Kieldahl Nitrogen, TKN	1.75	2.12	1	19.1		20

QUALITY CONTROL SUMMARY

Wet Chemistry by Method 351.2

L1348424-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1348424-01 05/14/21 10:14 • (DUP) R3654399-6 05/14/21 10:15

,	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Kjeldahl Nitrogen, TKN	18.2	17.0	1	6.82		20







Laboratory Control Sample (LCS)

(LCS) R3654088-2 05/13/21 11:01

(200) 1000 2 00/10/	Spike Amount	LCS R	Result L	LCS Rec.	Rec. Limits
Analyte	mg/l	mg/l	9	%	%
Kjeldahl Nitrogen, TKN	15.2	14.9	g	98.0	75.2-121



Cn



Laboratory Control Sample (LCS)

/LCS/ D265/200 2 05/1//21 00:22

(LC3) K3034399-2 03/14/	Spike Amount	LCS Res	ılt LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Kjeldahl Nitrogen, TKN	15.2	15.0	98.7	75.2-121	





L1348424-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1348424-01 05/13/21 11:17 • (MS) R3654088-4 05/13/21 11:07

	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Analyte	mg/l	mg/l	mg/l	%		%	
Kjeldahl Nitrogen, TKN	5.00	18.9	22.1	64.0	1	90.0-110	<u>E J6</u>

L1349443-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1349443-01 05/13/21 13:49 • (MS) R3654088-6 05/13/21 11:22 • (MSD) R3654088-7 05/13/21 11:24

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Kjeldahl Nitrogen, TKN	5.00	2.00	7.22	7.10	104	102	1	90.0-110			1.68	20

L1348424-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1348424-01 05/14/21 10:14 • (MS) R3654399-3 05/14/21 09:46

	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Analyte	mg/l	mg/l	mg/l	%		%	
Kjeldahl Nitrogen, TKN	5.00	18.2	21.6	68.0	1	90.0-110	<u>E J6</u>



QUALITY CONTROL SUMMARY

Wet Chemistry by Method 351.2

11349545-01

L1349443-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1349443-01 05/14/21 09:56 • (MS) R3654399-7 05/14/21 10:16 • (MSD) R3654399-5 05/14/21 10:00

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Kieldahl Nitrogen, TKN	5.00	1.75	7.22	6.72	109	99.4	1	90.0-110			7.17	20



















QUALITY CONTROL SUMMARY

1134954

Martin - - Din - - L. (MAD)

(MB) R3652795-1 05/10/21 16:55

Wet Chemistry by Method 353.2

Method Blank (MB)

	MB Result MB Qualifier	MB MDL	MB RDL
Analyte	mg/l	mg/l	mg/l
Nitrate-Nitrite	<0.0300	0.0300	0.0500







Laboratory Control Sample (LCS)

(LCS) R3652795-2 05/10/21 16:56

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Nitrate-Nitrite	2.50	2.44	97.6	90.0-110	





⁶Qc



(OS) L1348257-01 05/10/21 17:05 • (MS) R3652795-3 05/10/21 16:58 • (MSD) R3652795-4 05/10/21 16:59

(,		Original Result		MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Nitrate-Nitrite	2.50	0.684	3.13	3.13	97.8	97.8	1	90.0-110			0.000	20







L1348257-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1348257-02 05/10/21 17:09 • (MS) R3652795-5 05/10/21 17:00 • (MSD) R3652795-6 05/10/21 17:01

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits	
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%	
Nitrate-Nitrite	2.50	0.582	3.01	3.06	97.1	99.1	1	90.0-110			1.65	20	

QUALITY CONTROL SUMMARY

Wet Chemistry by Method 4500Cl G-2011

L1349545-01

Method Blank (MB)

(MB) R3652433-1 O	5/10/21 11:58			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Chlorine,residual	<0.0260		0.0260	0.100



Ss

L1347551-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1347551-03 05/10/21 11:59 • (DUP) R3652433-3 05/10/21 11:59

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Chlorine,residual	<0.100	<0.100	1	0.000		20



Laboratory Control Sample (LCS)

(LCS) R3652433-2 05/10/21 11:58

(200) 110002400 2 00/10/	Spike Amount	LCS Resu	t LCS Rec.	Rec. Limits
Analyte	mg/l	mg/l	%	%
Chlorine,residual	1.00	0.995	99.5	85.0-115





QUALITY CONTROL SUMMARY

L1349545-01

Wet Chemistry by Method 4500P-E

Method Blank (MB)

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Phosphorus Total	<0.0152		0.0152	0.0500







Laboratory Control Sample (LCS)

(LCS) R3654116-2	05/13/21 14:51
------------------	----------------

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Phosphorus.Total	0.500	0.495	99.0	80.0-120	





⁶Qc

L1346472-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1346472-01 05/13/21 14:51 • (MS) R3654116-3 05/13/21 14:51 • (MSD) R3654116-4 05/13/21 14:51

,	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Phosphorus Total	0.500	< 0.0500	0 471	0.493	94.2	98.5	1	80 0-120			4.56	20







L1346475-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1346475-01 05/13/21 14:51 • (MS) R3654116-5 05/13/21 14:51 • (MSD) R3654116-6 05/13/21 14:51

, ,	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits	
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%	
Phosphorus, Total	0.500	0.115	0.560	0.582	89.0	93.4	1	80.0-120			3.85	20	

QUALITY CONTROL SUMMARY

Wet Chemistry by Method 5310C

	Metl	hod	Blan	k (MB)
--	------	-----	------	-----	-----

(MB) R3661964-1 06/01/2	1 15:29				
	MB Result	MB Qualifier	MB MDL	MB RDL	
Analyte	mg/l		mg/l	mg/l	
TOC (Total Organic Carbon)	<0.270		0.270	0.700	







Laboratory Control Sample (LCS)

(LCS) R3661964-2 06/01/21 15:4	(LCS)	R3661964-2	06/01/21 15:44
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	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
TOC (Total Organic Carbon)	10.0	9.99	99.9	90.0-110	









(OS) L1360001-01 06/01/21 16:41 • (MS) R3661964-3 06/01/21 16:04 • (MSD) R3661964-4 06/01/21 16:23

,	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
TOC (Total Organic Carbon)	10.0	4 06	13.8	13.6	97.4	95.6	1	80 0-120			1.31	20







QUALITY CONTROL SUMMARY

Wet Chemistry by Method SM 4500-H+B

L1349545-01

L1347590-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1347590-01 05/11/21 10:34 • (DUP) R3652872-2 05/11/21 10:34

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	su	SU		%		%
рН	6.76	7.16	1	5.75		20



Sample Narrative:

OS: 6.76 at 26.1C DUP: 7.16 at 22.4C



Ss

Laboratory Control Sample (LCS)

(LCS) R3652872-1 05/11/21 10:34

(LC3) R3032872-1 03/11/2	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	su	SU	%	%	
рН	6.00	5.98	99.7	99.0-101	



8 **Δ**I



⁹Sc

Sample Narrative:

LCS: 5.98 at 20.2C

QUALITY CONTROL SUMMARY

L1349545-01

Wet Chemistry by Method SM5210B

Method Blank (MB)

(MB) R3653904-1 05/13/21 07:17									
		MB Result	MB Qualifier	MB MDL	MB RDL				
	Analyte	mg/l		mg/l	mg/l				
	BOD	<2.00		2.00	2.00				

²Tc

3 Ss

Cn

L1349545-01 Original Sample (OS) • Duplicate (DUP)

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
BOD	<2.00	<2.00	1	0		20





Laboratory Control Sample (LCS)

(1 00)	DOCE 2004 2	0 = 40 /04	0700
(LCS)	R3653904-2	05/13/21	07:22

(LCS) R3093904-2 09/13/	Spike Amount	LCS Resul	t LCS Rec.	Rec. Limits
Analyte	mg/l	mg/l	%	%
BOD	198	175	88.5	85-115





QUALITY CONTROL SUMMARY

Mercury by Method 245.1

Method Blank (MB)

(MB) R3660648-1 05/	/28/21 16:15			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Mercury	<0.0000450		0.0000450	0.000200



Laboratory Control Sample (LCS)

(LCS) R3660648-2 05/28/2116:17

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Mercury	0.00250	0.00255	102	85.0-115	



L1349545-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1349545-01 05/28/21 16:24 • (MS) R3660648-3 05/28/21 16:20 • (MSD) R3660648-4 05/28/21 16:22

	,	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Δ	ınalyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
	Mercury	0.00250	<0.000200	0.00261	0.00262	104	105	1	70.0-130			0.382	20









QUALITY CONTROL SUMMARY

Metals (ICP) by Method 200.7

(MB) R3654995-1 05/15/21 13:03

Method Blank (MB)

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Silicon	<0.0771		0.0771	0.200







Laboratory Control Sample (LCS)

(LCS) R3654995-2 05/15/21 13:05

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Silicon	100	0.976	97.6	85 0-115	







(OS) L1349104-15 05/15/21 13:08 • (MS) R3654995-4 05/15/21 13:13 • (MSD) R3654995-5 05/15/21 13:15

	,	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
1	Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
	Silicon	1.00	6.16	7.52	7.53	137	138	1	70.0-130	V	V	0.136	20







L1349545-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1349545-01 05/15/21 13:18 • (MS) R3654995-6 05/15/21 13:21 • (MSD) R3654995-7 05/15/21 13:23

, ,	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits	
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%	
Silicon	1.00	5.94	7.05	6.87	112	93.6	1	70.0-130			2.57	20	

QUALITY CONTROL SUMMARY

L1349545-01

Metals (ICP) by Method 200.7 Method Blank (MB)

(MB) R3661513-1 O)5/28/21 17:10				
	MB Result	MB Qualifier	MB MDL	MB RDL	
Analyte	mg/l		mg/l	mg/l	
Aluminum	<0.0353		0.0353	0.500	
Antimony	<0.00242		0.00242	0.0250	
Arsenic	<0.00418		0.00418	0.0200	
Barium	<0.000490		0.000490	0.0100	4
Beryllium	0.000660	<u>J</u>	0.000180	0.00100	
Boron	<0.0186		0.0186	0.100	
Cadmium	0.000383	<u>J</u>	0.000350	0.00500	
Calcium	<0.0496		0.0496	1.00	
Chromium	<0.000710		0.000710	0.00700	
Cobalt	0.00101	<u>J</u>	0.000680	0.00250	
Copper	< 0.00364		0.00364	0.0200	_
Iron	< 0.0303		0.0303	0.500	
Lead	< 0.00312		0.00312	0.0100	
Magnesium	<0.0434		0.0434	1.00	
Manganese	< 0.00557		0.00557	0.0500	
Nickel	<0.00358		0.00358	0.0100	
Potassium	< 0.0939		0.0939	1.00	
Selenium	<0.00500		0.00500	0.0200	
Silver	<0.000990		0.000990	0.00500	
Sodium	<0.178		0.178	1.00	
Strontium	0.000754	<u>J</u>	0.000210	0.00500	
Zinc	< 0.0106		0.0106	0.0250	

Laboratory Control Sample (LCS)

(LCS) R3661513-2 05/	28/21 17:14				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Aluminum	10.0	10.3	103	85.0-115	
Antimony	1.00	1.04	104	85.0-115	
Arsenic	1.00	1.01	101	85.0-115	
Barium	1.00	1.00	100	85.0-115	
Beryllium	1.00	1.02	102	85.0-115	
Boron	1.00	1.01	101	85.0-115	
Cadmium	1.00	1.03	103	85.0-115	
Calcium	10.0	10.2	102	85.0-115	
Chromium	1.00	1.03	103	85.0-115	
Cobalt	1.00	1.06	106	85.0-115	
Copper	1.00	1.03	103	85.0-115	

WG1678520

QUALITY CONTROL SUMMARY

L1349545-01

LCS Qualifier

Metals (ICP) by Method 200.7

Laboratory Control Sample (LCS)

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits
Analyte	mg/l	mg/l	%	%
Iron	10.0	10.3	103	85.0-115
Lead	1.00	1.07	107	85.0-115
Magnesium	10.0	10.3	103	85.0-115
Manganese	1.00	1.02	102	85.0-115
Nickel	1.00	1.05	105	85.0-115
Potassium	10.0	10.3	103	85.0-115
Selenium	1.00	1.03	103	85.0-115
Silver	0.500	0.508	102	85.0-115
Sodium	10.0	10.3	103	85.0-115
Strontium	1.00	1.01	101	85.0-115
Zinc	1.00	1.01	101	85.0-115

















(OS) L1354040-01 05/28/21 17:34 • (MS) R3661513-3 05/28/21 17:18 • (MSD) R3661513-4 05/28/21 17:22

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Aluminum	10.0	<0.500	10.9	10.8	106	105	1	70.0-130			0.461	20
Antimony	1.00	<0.0250	1.07	1.07	107	107	1	70.0-130			0.280	20
Arsenic	1.00	< 0.0200	1.05	1.05	105	105	1	70.0-130			0.666	20
Barium	1.00	0.195	1.22	1.23	103	103	1	70.0-130			0.572	20
Beryllium	1.00	< 0.00100	1.05	1.06	105	106	1	70.0-130			0.946	20
Boron	1.00	<0.100	1.08	1.08	103	103	1	70.0-130			0.000	20
Cadmium	1.00	< 0.00500	1.05	1.06	105	106	1	70.0-130			0.474	20
Calcium	10.0	69.3	78.7	80.1	94.0	107	1	70.0-130			1.66	20
Chromium	1.00	0.0323	1.07	1.09	104	106	1	70.0-130			2.41	20
Cobalt	1.00	< 0.00250	1.06	1.07	106	107	1	70.0-130			1.13	20
Copper	1.00	< 0.0200	1.06	1.06	105	106	1	70.0-130			0.377	20
Iron	10.0	< 0.500	10.5	10.5	105	105	1	70.0-130			0.381	20
Lead	1.00	< 0.0100	1.06	1.06	105	106	1	70.0-130			0.471	20
Magnesium	10.0	<1.00	11.2	11.2	105	106	1	70.0-130			0.715	20
Manganese	1.00	< 0.0500	1.02	1.04	102	104	1	70.0-130			1.65	20
Nickel	1.00	<0.0100	1.05	1.06	105	105	1	70.0-130			0.665	20
Potassium	10.0	18.6	29.0	29.2	104	106	1	70.0-130			0.722	20
Selenium	1.00	<0.0200	1.07	1.07	107	107	1	70.0-130			0.374	20
Silver	0.500	< 0.00500	0.522	0.533	104	107	1	70.0-130			1.99	20
Sodium	10.0	26.5	36.8	37.3	103	108	1	70.0-130			1.40	20
Strontium	1.00	0.737	1.77	1.79	103	105	1	70.0-130			1.12	20
Zinc	1.00	<0.0250	1.01	1.03	101	103	1	70.0-130			1.18	20







Zinc

QUALITY CONTROL SUMMARY

Metals (ICP) by Method 200.7

L1354047-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits	
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%	
Aluminum	10.0	<0.500	10.3	10.5	101	103	1	70.0-130			1.73	20	
Antimony	1.00	<0.0250	1.04	1.04	104	104	1	70.0-130			0.0959	20	
Arsenic	1.00	<0.0200	1.01	1.01	101	101	1	70.0-130			0.0989	20	
Barium	1.00	0.0276	1.03	1.04	100	101	1	70.0-130			0.967	20	
Beryllium	1.00	< 0.00100	1.02	1.03	102	103	1	70.0-130			1.07	20	
Boron	1.00	<0.100	1.04	1.05	99.2	100	1	70.0-130			1.06	20	
Cadmium	1.00	<0.00500	1.02	1.02	102	102	1	70.0-130			0.0978	20	
Calcium	10.0	18.2	27.7	28.0	94.3	97.3	1	70.0-130			1.08	20	
Chromium	1.00	<0.00700	1.03	1.03	102	103	1	70.0-130			0.681	20	
Cobalt	1.00	<0.00250	1.06	1.06	106	106	1	70.0-130			0.000	20	
Copper	1.00	<0.0200	1.03	1.04	103	104	1	70.0-130			1.26	20	
ron	10.0	<0.500	10.2	10.4	102	103	1	70.0-130			1.55	20	
Lead	1.00	<0.0100	1.05	1.05	105	105	1	70.0-130			0.0954	20	
Magnesium	10.0	2.13	12.2	12.4	101	103	1	70.0-130			1.54	20	
Manganese	1.00	<0.0500	1.01	1.02	100	101	1	70.0-130			0.989	20	
Nickel	1.00	<0.0100	1.04	1.05	104	105	1	70.0-130			0.287	20	
Potassium	10.0	3.00	13.1	13.2	101	102	1	70.0-130			1.14	20	
Selenium	1.00	<0.0200	1.04	1.04	103	104	1	70.0-130			0.192	20	
Silver	0.500	<0.00500	0.509	0.512	102	102	1	70.0-130			0.647	20	
Sodium	10.0	5.08	15.2	15.4	101	103	1	70.0-130			0.982	20	
Strontium	1.00	0.419	1.42	1.43	99.9	101	1	70.0-130			0.773	20	

102





















1.00

< 0.0250

1.01

1.02

70.0-130

20

0.590

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

, 1.5.0.1.0.1.1.0.1.1.0.1.1.0.1.1.1.1.1.1.	
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
CHAIITIAL	LIASCRIPTION
Qualifici	

	'
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
T8	Sample(s) received past/too close to holding time expiration.
V	The sample concentration is too high to evaluate accurate spike recoveries.

¹Cp



















ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina 1	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
lowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky 1 6	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	Al30792	Tennessee 1 4	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA - ISO 17025 5	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

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lowa	408	Oklahoma	8727
Louisiana	30686		

Pace Analytical Services, LLC -Dallas 2657 Gravel Dr Ft. Worth, TX 76118

Texas T104704232-20-32



















¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

^{*} Not all certifications held by the laboratory are applicable to the results reported in the attached report.

^{*} Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.



CHAIN-OF-CUSTODY / Analytical Request Document The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A		tion B						Section															Г					
Required Clent Information: Comparty: Pelotox Land Solutions	Req	uired Projec	t Information	E.				Attenti		ormati	on:				_						1		P	age:	- 1	0	f	1
Address: 9800 Hillwood Parkway	Cop								any N	lama:					M													
Fort Worth, TX 76177								Addres													1000	98000		Regul	atory Ag	ency		
Email: chrs.hamilton@pelotoniand.com		chase Order #						Pace (POSITION OF THE PARTY OF THE PA							THE									7.9			
Phone: NONE Requested Due Date:	-	ect Name:	Well Water	Testing						t Mana			y.brya	nt@pa	pelab	s con	n,					753		State	e / Locati	on	U-V-U-V	
requested the bale.	Proje	ect #:						Pace F	Profile	#:	6854	-1		-			400000	-	-					-				
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Document Revised: 7/27/20 Page 1 of 1	lssu Pace Da		ShShuEIJ (Inaufsys	(Correction Factor) 9.9	which evidence of cooling is acceptable								NA O	NA W	NAK	NAS	NA'O	NAG	NAR			
Dacument Name: Sample Condition Upon Receipt	F-DAL-C-001-rev.14	Sample Condition Upon Receipt	Project Work order (place label):	Cooler Temp °C: 7 (Recorded) 0	nless collected same day as receipt in v	Yes a No n			7/24	Yes Q No D	Yes & No	Yes n No n	O NO D	Yes a No a N	Yes a No a N.	Yes a No a	Yes 🗆 No 🗈 N	Yes O No O	Yes a No		Yes ON D	
Pace Analytical Sam		Rush Dallas G	Client Name: Peloton Land Sutions Projec Courier: FedEX a UPS a USPS a Client & LSO a PACE a Other. Tracking #:	ice: Wet a Blue a No ice b 1 Thermometer Used:	Temperature should be above freezing to 6°C unless collected same day as receipt in which evidence of cooling is acceptable Triage Person: C. Date: 5-7-2/	Chain of Custody relinquished	Sampler name & signature on COC	Short HT analyses (<72 hrs)	Login Person: RT Date: 5/	Sufficient Volume received	Correct Container used	Container Intact	Sample pH Acceptable (937/10	Residual Chlorine Present CI Strips:	Sulfide Present Lead Acetate Strips:	Are soil samples (volatiles, TPH) received in 5035A Kits (not applicable to TCLP VOA or PST Program TPH)	Unpreserved 5035A soil frozen within 48 hrs	Headspace in VOA (>6mm)	Project sampled in USDA Regulated Area outside of	State Sampled:	Non-Conformance(s):	

ATTACHMENT 9

Accounting Plan and Accounting Plan Summary



CORPORATE OFFICE 9800 Hillwood Pkwy. Suite 250 Fort Worth, Texas, 76177 817.562.3350

ACCOUNTING PLAN Dove Pond (Golf Course Pond)

November 29, 2021

INTRODUCTION

This memorandum describes the accounting plan submitted for Dove Pond (Golf Course Pond). The application authorizes the following:

- Storage of supplemental water in one impoundment with a storage capacity of 21.9 acre-feet and a surface area of 4.80 acres.
- Diversion of 45 acre-feet of supplemental water for the use of irrigation.

The applicant will not be diverting any state waters and will provide supplemental water from private groundwater produced by the applicant to offset evaporation losses and diversion of supplemental water.

The accounting plan assumes that storage in the reservoirs is constant. Change in storage is minimal and can be ignored. Thus, this accounting plan is premised on a fundamental mass balance equation of water inflows and outflows from the impoundment:

Groundwater = Evaporation Losses + Diversion from Irrigation

The applicant has installed meters on the discharges of groundwater and will read those meters daily. The accounting plan will use the 75th percentile evaporation amount for the local area for the period from 1954 through 2020, calculated monthly, as published by the Texas Water Development Board (TWDB).

ELEMENTS OF THE ACCOUNTING PLAN

The accounting plan has been created as an Excel spreadsheet. The spreadsheet includes cells in which the applicant will insert meter readings. The spreadsheet includes other cells that contain the default evaporation rate based on the 75th percentile evaporation amount for the local area for the period from 1954 through 20120, calculated monthly, as published by the Texas Water Development Board. The accounting plan covers one calendar year, and a new Excel document will need to be created for each year.

There are 16 tabs in the accounting plan spreadsheet:

1. ANNUAL Tab – summarizes groundwater discharge volume, evaporative losses, and supplemental groundwater discharges.

- 2. Monthly Tabs (JAN through DEC) the applicant will enter daily readings of groundwater discharge.
- 3. EVAP DATA Tab default evaporation rates.
- 4. TWDB PAN LAKE FACTOR Tab data from the TWDB for Monthly Pan Coefficients.
- 5. TWDB EVAP Tab data from TWDB for monthly lake surface evaporation for Quadrangle 510.

ANNUAL TAB (Updated automatically based on data entered in monthly tabs, no data entry is required by the applicant.)

The ANNUAL tab calculates a mass balance for the impoundment covered by Application 13619. All figures on the ANNUAL tab are populated from the monthly tabs or calculated in the ANNUAL tab, so the applicant will not enter any data into the ANNUAL tab. The exception is in cell B6, where the applicant enters the current year.

The ANNUAL tab contains columns (A through G) and 14 rows. The columns in the table are as follows:

ál.	A	В	C	D	E	F	G
		1911		Dove Pond (G	olf Course Pond)		1
2					unting Record		
3					ıal Tab		
4					AUDEROUDEN		
5			Į.				
6	Year						
7							
8	Month	Diversion Volume (ac-ft)	Groundwater Volume (ac-ft)	Default Evaporation (ac-ft)	Calculated Net Inflow (ac-ft)	Depleted Net Inflow (ac-ft)	Supplemental Groundwater Release (ac-ft)
9	January	0.00	0.00	1.24	1.24	1.24	1.24
10	February	0.00	0.00	1.68	1.68	1.68	1.68
11	March	0.00	0.00	2.48	2.48	2.48	2.48
12	April	0.00	0.00	3.30	3.30	3.30	3.30
13	May	0.00	0.00	3.72	3.72	3.72	3.72
14	June	0.00	0.00	4.50	4.50	4.50	4.50
15	July	0.00	0.00	5.27	5.27	5.27	5.27
16	August	0.00	0.00	4.65	4.65	4.65	4.65
17	September	0.00	0.00	3.60	3.60	3.60	3.60
18	October	0.00	0.00	2.79	2.79	2.79	2.79
19	November	0.00	0.00	1.80	1.80	1.80	1.80
20	December	0.00	0.00	1.24	1.24	1.24	1.24
21	Total	0.00	0.00	36.27	36.27	36.27	36.27
22							

<u>Column A</u> <u>Month.</u> Labels for each month in a separate row. Corresponds to Monthly Tabs (JAN through DEC) within the spreadsheet.

<u>Column B</u> <u>Diversion Volume (ac-ft).</u> Contains the monthly Groundwater Volume in acrefeet (This number comes from Cell B41, which is a conversion of the Sum of Column B "Diversion Volume (gal)" to acre-feet in each Monthly Tab (JAN through DEC). This number will populate automatically once the Monthly Tabs are completed.)

<u>Column C</u> <u>Groundwater Volume (ac-ft).</u> Contains the monthly Groundwater Volume in acre-feet (This number comes from Cell C41, which is a conversion of the Sum of Column B "Groundwater Volume (gal)" to acre-feet in each Monthly Tab (JAN through DEC). This number will populate automatically once the Monthly Tabs are completed.)

Column D

Default Evaporation (ac-ft). Contains the monthly evaporation imported from the respective monthly worksheet (This number comes from Cell D41, which is a conversion of the Sum of Column E "Default Evaporation (gal)" to acre-feet in each Monthly tab (JAN through DEC). This number will populate automatically once the Monthly Tabs are completed.)

Column E

Calculated Net Inflow (ac-ft). Contains the monthly calculated net inflows in acre-feet. (This number comes from Cell E41, which is a conversion of the Sum of Column F "Calculated Net Inflow (gal)" to acre-feet in each Monthly Tab (JAN to DEC). This number will populate automatically once the Monthly Tabs are completed).

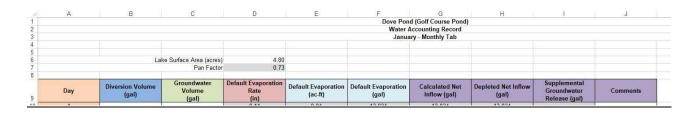
Column F

Depleted Net Inflow (ac-ft). Contains the monthly depleted net inflows in acrefeet. (This number comes from Cell H41, which is a conversion of the Sum of Column G "Depleted Net Inflow (gal)" to acre-feet in each Monthly Tab (JAN to DEC). This number will populate automatically once the Monthly Tabs are completed).

Supplemental Groundwater Release (ac-ft). Contains the monthly supplemental groundwater release in acre-feet. (This number comes from Cell I41, which is a conversion of the Sum of Column H "Supplemental Groundwater Release (gal)" to acre-feet in each Monthly Tab (JAN to DEC). This number will populate automatically once the Monthly Tabs are completed).

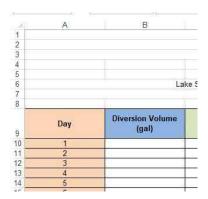
MONTHLY TABS (Updated monthly by applicant)

The accounting plan includes 12 monthly spreadsheets, labeled JAN through DEC. Each worksheet contains nine columns (A through I), but the number of rows varies between 28 and 31 based on the number of days in the month. The applicant will enter daily the groundwater volume in gallons into Column B "Groundwater Volume (gal). All other cells will be filled automatically based on those entries.



<u>Column A</u> <u>Day.</u> Lists the day of the month. **No data entry is required by the applicant.**

<u>Column B</u> <u>Diversion Volume (gal).</u> Cells for the applicant to enter daily meter readings from the irrigation diversion pump meter. Irrigation diversion pump meter records used in gallons. **Applicant to read the meter and enter the amount of water (in gallons) pumped out of pond daily.**



<u>Column C</u> <u>Groundwater Volume (gal).</u> Cells for the applicant to enter daily meter readings from the water well meter. Water well meter records used in gallons. **Applicant to read the meter and enter the amount of water (in gallons) discharged into pond daily.**

	90 0	M 25	- 2
al.	A	В	C
1			
2			
3			
1			
4 5 6			
5		Lak	e Surface Area (acres
7			Pan Facto
3			
9	Day	Diversion Volume (gal)	Groundwater Volume (gal)
0	1		
1	2		

<u>Column D</u> <u>Default Evaporation Rate (in)</u>. This column displays the 75th percentile daily pan rate from Column D "Daily Pan Rate (in)" of the EVAP DATA Worksheet. **No data entry is required by the applicant.**

<u>Column E</u> <u>Default Evaporation (ac-ft).</u> Calculated Default Evaporation obtained by converting the Default Evaporation Rate in Column D to feet and multiplying it by the total surface area of the lake in cell D6 (Column D "Default Evaporation Rate (in) divided by 12, to convert to feet, multiplied by D6 Lake Surface Area (acres). **No data entry is required by the applicant.**

<u>Column F</u> <u>Default Evaporation (gal).</u> Calculated Default Evaporation in gallons obtained by converting the Column F Default Evaporation (ac-ft) multiplied by 325851 gallons per acre-foot. **No data entry is required by the applicant.**

Column G

Calculated Net Inflow (gal). The calculated net inflow is determined by subtracting the diversion volume (Column B) from groundwater inflow to the lake (Column C) and then subtracting the sum from the default evaporation (Column F). If the calculated net inflow is negative, then there is more inflow into the impoundment than can be held, and this amount flows downstream. (Column F "Default Evaporation (gal)" minus Column C "Groundwater Volume (gal) – Column B "Diversion Volume (gal).") No data entry is required by the applicant.

<u>Column H</u>
<u>Depleted Net Inflow (gal).</u> The depleted net inflow is the positive calculated net inflow from Column G. If the "Calculated Net Inflow" is less than zero, this value is equal to zero. The depleted net inflow represents the amount needed to be made up through supplemental groundwater pumping. (The largest value of Column G "Calculated Net Inflow (gal).") **No data entry is required by the applicant.**

<u>Supplemental Groundwater Release (gal).</u> The supplemental groundwater release (gal) (Column I) is the sum of the depleted net inflow (gal) (Column H). The applicant should review these numbers biweekly in December, January, and February (i.e., winter months) when evapotranspiration rates are typically low. For

the remainder of the year (i.e., spring and summer months), the applicant should review these numbers on a weekly basis when evapotranspiration rates typically are higher. Equations to sum the amount of supplemental groundwater released on a biweekly/weekly basis are included in the appropriate locations in the Monthly Tabs. Reviewing on a biweekly/weekly basis will give the applicant the opportunity to determine if an adequate amount of groundwater is being discharged, and if not, supplemental groundwater volumes can be provided into the system to meet the requirement of the permit.

If a positive number is present in the supplemental groundwater release (gal) (Column IH), then the applicant needs to increase the volume of groundwater on future releases that month to reduce the values in Column H to zero. Discharges of supplemental groundwater volumes should be recorded in Column B, and a note with the amount would be included in Comments (Column J). Applicant to review supplemental groundwater number. Record a supplemental groundwater discharges and enter the amount of water (in gallons) discharged into the pond in Column C. Supplemental groundwater discharges to be combined with normal groundwater volume discharges.



<u>Column J</u> <u>Comments.</u> This Column allows the applicant to enter any relevant notes and observations. **Applicant to enter comments daily.**

	A	В	С	D	E	F	G	Н	1	J
							d (Golf Course Pond			
							ccounting Record			
						Janua	ry - Monthly Tab			
		1.1								
		Lak	e Surface Area (acre							
			Pan Fact	or 0.73						
	Day	Diversion Volume (gal)	Groundwater Volume (gal)	Default Evaporation Rate (in)	Default Evaporation (ac-ft)	Default Evaporation (gal)	Calculated Net Inflow (gal)	Depleted Net Inflow (gal)	Supplemental Groundwater Release (gal)	Comments
	1			0.11	0.04	13,034	13,034	13,034		
	2			0.11	0.04	13,034	13,034	13,034		
	3			0.11	0.04	13,034	13,034	13,034		
	4			0.11	0.04	13,034	13,034	13,034		
	5	Time to the second		0.11	0.04	13,034	13,034	13,034		
Ī	6	3		0.11	0.04	13,034	13,034	13,034	\ \	
Ī	7			0.11	0.04	13,034	13,034	13,034		
Ī	8			0.11	0.04	13,034	13,034	13,034		
Ī	9			0.11	0.04	13,034	13,034	13,034),	
	10	1		0.11	0.04	13,034	13,034	13,034		
	11	Y Y		0.11	0.04	13,034	13,034	13,034		
Ī	12	8		0.11	0.04	13,034	13,034	13,034	*	
Ī	13	3		0.11	0.04	13,034	13,034	13,034	**************************************	
Ī	14	A .		0.11	0.04	13,034	13,034	13,034	182,476	
Ī	15	1		0.11	0.04	13,034	13,034	13,034		
	16			0.11	0.04	13,034	13,034	13,034		
Ī	17			0.11	0.04	13,034	13,034	13,034	ï	
	18	7		0.11	0.04	13,034	13,034	13,034	i i	
	19	7		0.11	0.04	13,034	13,034	13,034	9	
	20			0.11	0.04	13,034	13,034	13,034		
	21			0.11	0.04	13,034	13,034	13,034	,	
	22			0.11	0.04	13,034	13,034	13,034	1	
	23			0.11	0.04	13,034	13,034	13,034		
	24	T T		0.11	0.04	13,034	13,034	13,034		
	25	T .		0.11	0.04	13,034	13,034	13,034	i i	
	26	A 3		0.11	0.04	13,034	13,034	13,034	*	
	27	J.		0.11	0.04	13,034	13,034	13,034		
	28			0.11	0.04	13,034	13,034	13,034	182,476	
	29			0.11	0.04	13,034	13,034	13,034		
	30	i i		0.11	0.04	13,034	13,034	13,034		
	31	*		0.11	0.04	13,034	13,034	13,034	39,102	
	Total (ac-ft)	0.00	0.00	1.36	1.24	1.24	1.24	1.24	1.24	
ī	Total (gal)	0	0	444 461	404.055	404,054	404.054	404,054	404,054	

EVAP DATA TAB (There are no adjustments to be made to this tab by the applicant)

The EVAP DATA worksheet contains default data. The worksheet includes five columns, all of which have been populated with data. The applicant will not enter any data in the EVAP DATA worksheet. **There are no adjustments to be made to this tab by the applicant.**

4		В	C	D	E
1			Dove Pond (Go	If Course Pond)	
2			Water Accou	nting Record	
3			Evap Da	ata Tab	
4				Sec 191 11 12 12	
5	Month	Days in Month	TWDB 75th Percentile Monthly Rate (in)	Daily Pan Rate (in)	Pan Factor
6	January	31	2.48	0.11	0.73
7	February	28	2.95	0.15	0.70
8	March	31	4.53	0.21	0.69
9	April	30	5.40	0.27	0.67
10	May	31	5.39	0.29	0.60
11	June	30	7.38	0.37	0.67
12	July	31	9.04	0.42	0.69
13	August	31	8.35	0.38	0.70
14	September	30	6.57	0.30	0.73
15	October	31	5.14	0.22	0.77
16	November	30	3.52	0.15	0.80
17	December	31	2.74	0.11	0.77
18					

Column A Month. Lists each month.

<u>Column B</u> <u>Days in Month</u>. Lists the days in each month. End-user to modify as needed to accommodate for leap year.

Column C TWDB 75th Percentile Monthly Rate (in). Lists the 75th percentile evaporation rate for each month, expressed in inches. This column's data was obtained from the precipitation and lake evaporation database published by the Texas Water Development Board (Row 78 "75th Percentile" of TWDB EVAP Tab within the spreadsheet) (TWDB, Lake Evaporation and Precipitation Data, Quadrant 510, https://waterdatafortexas.org/lake-evaporation-rainfall).

<u>Column D</u> <u>Daily Pan Rate (in).</u> Expresses the evaporation rate as a daily rate from an evaporation pan, calculated by dividing the monthly rate in Column C by the number of days in the month and then dividing the result by the monthly pan

factors (Column C "TWDB 75th Percentile monthly Rate (in) divided by Column B "Days in Month" divided by Column E "Pan Factor." These daily rates will be used as the default evaporation rate.

<u>Column E</u> <u>Pan Factor.</u> The TWDB pan factor for this area (Row 75 "Quad 510" of TWDB Pan Lake Factor) tab within the spreadsheet.

TWDB PAN LAKE FACTOR TAB (There are no adjustments to be made to this tab by the applicant) The TWDB PAN LAKE FACTOR worksheet contains the Texas Water Development Board pan factors for Texas (TWDB, Lake Evaporation and Precipitation Data, Pan-to-Lake- Coefficients, Quad 510 Monthly Pan factors, https://waterdatafortexas.org/lake-evaporation-rainfall).

d	Α	В	С	D	E	F	G	Н	1	J	K	L	M	N	0
l.					ourse Pon	d)									
}				Accounting		3									
	TWDB L	21.	IWDB	Pan Lake	Factor Tal)									
				and the transfer		Court East									
	nttps://	waterdat	afortexas.	org/lake-e	vaporation	i-raintaii									
						****	- W-4 D	LINU COLUMN							
								evelopme							
)	Quad	lan	Feb	Mar	Ann			actor Used Jul		500	Oct	Nov	Dec	Ann	
1	410	Jan 0.73	0.7	0.69	Apr 0.67	May 0.6	Jun 0.67	0.69	Aug 0.7	Sep 0.73	0.77	0.8	0.77	0.7	
			1817		12020	(414)		10.000	1.017			1,0,000	120.000		
2	411	0.74	0.71	0.7	0.68	0.61	0.68	0.7	0.71	0.74	0.78	0.81	0.78	0.71	
3	412	0.75	0.72	0.71	0.69	0.62	0.69	0.71	0.72	0.75	0.79	0.82	0.79	0.72	
	413	0.76	0.73	0.72	0.71	0.65	0.71	0.72	0.73	0.76	0.79	0.81	0.79	0.73	
5	414	0.77	0.74	0.73	0.72	0.66	0.72	0.73	0.74	0.77	0.8	0.82	0.8	0.74	
6	501	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68	
7	502	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68	
8	503	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67	
9	504	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67	
0	505	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67	
1	506	0.71	0.68	0.68	0.65	0.58	0.65	0.67	0.68	0.71	0.75	0.78	0.75	0.68	
2	507	0.72	0.69	0.68	0.65	0.57	0.65	0.68	0.69	0.72	0.77	0.81	0.77	0.69	
3	508	0.72	0.69	0.68	0.65	0.57	0.65	0.68	0.69	0.72	0.77	0.81	0.77	0.69	
4	509	0.73	0.7	0.69	0.67	0.6	0.67	0.69	0.7	0.73	0.77	0.8	0.77	0.7	
5	510	0.73	0.7	0.69	0.67	0.6	0.67	0.69	0.7	0.73	0.77	0.8	0.77	0.7	
6	511	0.74	0.71	0.7	0.68	0.61	0.68	0.7	0.71	0.74	0.78	0.81	0.78	0.71	

TWDB EVAP TAB (There are no adjustments to be made to this tab by the applicant)

The TWDB EVAP worksheet contains the Texas Water Development Board monthly lake surface evaporation rates for Quadrangle 510 from 1954 to 2020 (TWDB, Lake Evaporation and Precipitation Data, Quadrant 510, https://waterdatafortexas.org/lake-evaporation-rainfall).

Row 78 75th Percentile. Calculates the 75th percentile evaporation rate for each month from 1954 to 2020.

65	510	2009	2.51	3.59	4.44	5.04	4.42	6.96	7.54	7.85	4.46	3.46	2.97	2.21	55.45
6	510	2010	1.98	1.83	3.77	4.54	5.15	6.20	5.91	6.87	5.00	5.12	3.26	2.75	52.38
67	510	2011	2.04	2.33	4.66	6.29	5.64	9.04	10.21	10.77	7.74	5.15	3.51	1.99	69.37
68	510	2012	2.84	2.55	3.08	4.36	5.95	6.77	7.98	7.93	6.15	4.68	4.28	3.45	60.02
59	510	2013	3.04	3.21	5.09	4.92	5.08	7.32	7.89	8.08	6.39	4.27	3.18	1.97	60.66
70	510	2014	2.43	2.48	3.87	5.74	5.77	6.78	7.15	7.62	5.75	5.37	3.43	1.94	58.60
71	510	2015	2.43	2.49	3.48	4.39	4.06	6.53	8.22	7.37	6.11	5.39	3.52	2.66	56.46
72	510	2016	2.17	3.37	4.09	4.12	3.69	6.03	7.69	4.07	5.17	4.63	3.30	2.83	51.01
73	510	2017	2.96	3.51	3.97	4.44	5.06	6.06	9.05	6.22	4.92	4.97	3.05	2.30	56.63
74	510	2018	2.11	2.39	4.00	4.40	5.39	7.48	7.65	7.72	4.04	3.67	1.88	1.81	53.16
75	510	2019	1.76	1.75	2.98	2.69	2.78	3.65	5.97	6.96	5.90	4.58	2.30	2.21	43.18
76	510	2020	1.71	2.43	2.67	3.64	4.7	6.11	6.05	7.75	3.7	4.17	2.88	1.92	47.94
77															
78	75th Percer	ntile:	2.48	2.95	4.53	5.40	5.39	7.38	9.04	8.35	6.57	5.14	3.52	2.74	60.22
79															
80															

Dove Pond (Golf Course Pond) Water Accounting Record Annual Tab

Year	

Month	Diversion Volume (ac-ft)	Groundwater Volume (ac-ft)	Default Evaporation (ac-ft)	Calculated Net Inflow (ac-ft)	Depleted Net Inflow (ac-ft)	Supplemental Groundwater Release (ac-ft)
January	0.00	0.00	1.24	1.24	1.24	1.24
February	0.00	0.00	1.68	1.68	1.68	1.68
March	0.00	0.00	2.48	2.48	2.48	2.48
April	0.00	0.00	3.30	3.30	3.30	3.30
May	0.00	0.00	3.72	3.72	3.72	3.72
June	0.00	0.00	4.50	4.50	4.50	4.50
July	0.00	0.00	5.27	5.27	5.27	5.27
August	0.00	0.00	4.65	4.65	4.65	4.65
September	0.00	0.00	3.60	3.60	3.60	3.60
October	0.00	0.00	2.79	2.79	2.79	2.79
November	0.00	0.00	1.80	1.80	1.80	1.80
December	0.00	0.00	1.24	1.24	1.24	1.24
Total	0.00	0.00	36.27	36.27	36.27	36.27

	А	В	С	D	E	F	G	Н	l l	J	К	L
1							d (Golf Course Pond)					_
2							Accounting Record					
2 3 4 5 6						Janu	ary - Monthly Tab					
4											C:	
5			-l Cf A ()	4.80							Signed: Date:	
7		Lè	ake Surface Area (acres) Pan Factor								Date:	
8			FallFactor	0.73								
-				Default Evaporation					Supplemental		1	
	Day	Diversion Volume	Groundwater Volume	Rate	Default Evaporation		Calculated Net Inflow	Depleted Net Inflow	Groundwater Release	Comments		
9	Duy	(gal)	(gal)	(in)	(ac-ft)	(gal)	(gal)	(gal)	(gal)	Comments		
10	1			0.11	0.04	13,034	13,034	13,034	(yui)			
11	2			0.11	0.04	13,034	13,034	13,034			1	
12	3			0.11	0.04	13,034	13,034	13,034			1	
13	4			0.11	0.04	13,034	13,034	13,034				
14	5			0.11	0.04	13,034	13,034	13,034				
15	6			0.11	0.04	13,034	13,034	13,034				
16	7			0.11	0.04	13,034	13,034	13,034				
17	8			0.11	0.04	13,034	13,034	13,034				
18	9			0.11	0.04	13,034	13,034	13,034				
19	10			0.11	0.04	13,034	13,034	13,034			1	
20	11			0.11	0.04	13,034	13,034	13,034			1	
21	12			0.11	0.04	13,034	13,034	13,034			1	
22	13			0.11	0.04	13,034	13,034	13,034			4	
23	14			0.11	0.04	13,034	13,034	13,034	182,476		-	
24	15			0.11 0.11	0.04 0.04	13,034 13.034	13,034 13.034	13,034 13.034			4	
25 26	16 17			0.11	0.04	13,034	13,034	13,034			-	
27	18			0.11	0.04	13,034	13,034	13,034			+	
28	19			0.11	0.04	13,034	13,034	13,034			+	
29	20			0.11	0.04	13,034	13,034	13,034			1	
30	21			0.11	0.04	13,034	13,034	13,034			1	
31	22			0.11	0.04	13,034	13,034	13,034			1	
32	23			0.11	0.04	13,034	13,034	13,034			1	
33	24			0.11	0.04	13.034	13.034	13.034			1	
34	25			0.11	0.04	13,034	13,034	13,034				
35	26			0.11	0.04	13,034	13,034	13,034				
36	27			0.11	0.04	13,034	13,034	13,034				
37	28			0.11	0.04	13,034	13,034	13,034	182,476			
38	29			0.11	0.04	13,034	13,034	13,034				
39	30			0.11	0.04	13,034	13,034	13,034		· ·		
40	31			0.11	0.04	13,034	13,034	13,034	39,102			
41	Total (ac-ft)	0.00	0.00	1.36	1.24	1.24	1.24	1.24	1.24		1	
42	Total (gal)	0	0	444,461	404,055	404,054	404,054	404,054	404,054			

П	Α	В	С	D	E	F	G	Н	ı	J
1							nd (Golf Course Pond)			
2							Accounting Record			
3						Febru	uary - Monthly Tab			
4										
5 6		1.	-l Of A ()	4.00						
7		Lâ	ake Surface Area (acres) Pan Factor	4.80 0.70						
8			Pan Factor	0.70						
Ů				Default Evaporation					Supplemental	
	Day	Diversion Volume	Groundwater Volume	Rate	Default Evaporation	Default Evaporation	Calculated Net Inflow	Depleted Net Inflow	Groundwater Release	Comments
	Day	(gal)	(gal)	(in)	(ac-ft)	(gal)	(gal)	(gal)	(gal)	Comments
9	1			0.15	0.06	19,551	19,551	19,551	(gai)	
11	2			0.15	0.06	19,551	19,551	19,551		
12	3			0.15	0.06	19,551	19,551	19,551		
13	4			0.15	0.06	19,551	19,551	19,551		
14	5			0.15	0.06	19,551	19,551	19,551		
15	6			0.15	0.06	19,551	19,551	19,551		
16	7			0.15	0.06	19,551	19,551	19,551		
17	8			0.15	0.06	19,551	19,551	19,551		
18	9			0.15	0.06	19,551	19,551	19.551		
19	10			0.15	0.06	19,551	19,551	19,551		
20	11			0.15	0.06	19,551	19,551	19,551		
21	12			0.15	0.06	19,551	19,551	19,551		
22	13			0.15	0.06	19,551	19,551	19,551		
23	14			0.15	0.06	19,551	19,551	19,551	273,714	
24	15			0.15	0.06	19,551	19,551	19,551		
25	16			0.15	0.06	19,551	19,551	19,551		
26	17			0.15	0.06	19,551	19,551	19,551		
27	18			0.15	0.06	19,551	19,551	19,551		
28	19			0.15	0.06	19,551	19,551	19,551		
29	20			0.15	0.06	19,551	19,551	19,551		
30	21			0.15	0.06	19,551	19,551	19,551		
31	22			0.15	0.06	19,551	19,551	19,551		
32	23			0.15	0.06	19,551	19,551	19,551		
33	24			0.15	0.06	19,551	19,551	19,551		
34	25			0.15	0.06	19,551	19,551	19,551		
35	26			0.15	0.06	19,551	19,551	19,551		
36	27			0.15	0.06	19,551	19,551	19,551		
37	28			0.15	0.06	19,551	19,551	19,551	273,714	

П	A	В	С	D	E	F	G	Н	1	J	К	L
1							nd (Golf Course Pond)					
2 3 4 5 6 7						Water	Accounting Record					
3						Mar	ch - Monthly Tab					
4												
5		1.	-l Cf A ()	4.00							Signed: Date:	
5		La	ake Surface Area (acres) Pan Factor								Date: _	
8			Pan Factor	0.09								
0				D.C. # E					0		1	
	Day	Diversion Volume	Groundwater Volume	Default Evaporation	Default Evaporation	Default Evaporation	Calculated Net Inflow	Depleted Net Inflow	Supplemental Groundwater Release	Comments		
	Day	(gal)	(gal)	Rate (in)	(ac-ft)	(gal)	(gal)	(gal)	(gal)	Comments		
10	4			0.21	0.08	26,068	26,068	26,068	(gai)			
11	2			0.21	0.08	26,068	26,068	26,068				
12	3		 	0.21	0.08	26,068	26,068	26,068				
13	4			0.21	0.08	26,068	26,068	26,068				
14	5			0.21	0.08	26,068	26,068	26,068				
15	6			0.21	0.08	26,068	26,068	26,068				
16	7			0.21	0.08	26,068	26,068	26,068	182,476			
17	8			0.21	0.08	26,068	26,068	26,068	102,110			
18	9			0.21	0.08	26,068	26,068	26,068				
19	10			0.21	0.08	26,068	26,068	26,068				
20	11			0.21	0.08	26,068	26,068	26,068				
21	12			0.21	0.08	26,068	26,068	26,068				
22	13			0.21	0.08	26,068	26,068	26,068				
23	14			0.21	0.08	26,068	26,068	26,068	182,476			
24	15			0.21	0.08	26,068	26,068	26,068				
25	16			0.21	0.08	26,068	26,068	26,068				
26	17			0.21 0.21	0.08	26,068	26,068	26,068				
27	18 19					26,068	26,068	26,068				
28	20			0.21 0.21	0.08	26,068 26,068	26,068 26,068	26,068 26,068				
30	21			0.21	0.08	26,068	26,068	26,068	182.476			
31	22			0.21	0.08	26,068	26,068	26,068	102,470			
32	23			0.21	0.08	26,068	26,068	26,068				
33	24			0.21	0.08	26,068	26,068	26,068				
34	25			0.21	0.08	26,068	26,068	26,068				
35	26			0.21	0.08	26,068	26,068	26,068			1	
36	27			0.21	0.08	26,068	26,068	26,068				
37	28			0.21	0.08	26,068	26,068	26,068	182,476			
38	29			0.21	0.08	26,068	26,068	26,068				
39	30			0.21	0.08	26,068	26,068	26,068				
40	31			0.21	0.08	26,068	26,068	26,068	78,204			
41	Total (ac-ft)	0.00	0.00	2.60	2.48	2.48	2.48	2.48	2.48			
42	Total (gal)	0	0	848,516	808,110	808,108	808,108	808,108	808,108			

П	Α	В	С	D	Е	F	G	Н	1 1	J	К	L
1							nd (Golf Course Pond)				•	
2 3 4 5						Water	Accounting Record					
3						Apı	ril - Monthly Tab					
4												
5				4.00							Signed:	
6 7		La	ake Surface Area (acres) Pan Factor								Date:	
8			Pan Factor	0.67								
٥												
		Diversion Volume	Groundwater Volume	Default Evaporation	Default Evaporation	Default Evaporation	Calculated Net Inflow	Depleted Net Inflow	Supplemental			
	Day	(gal)	(gal)	Rate	(ac-ft)	(gal)	(gal)	(gal)	Groundwater Release	Comments		
9			1= 1	(in)					(gal)			
10	1			0.27 0.27	0.11	35,844 35.844	35,844 35,844	35,844 35.844				
12	2 3			0.27	0.11 0.11	35,844 35,844	35,844 35,844	35,844 35,844				
13	4			0.27	0.11	35,844 35,844	35,844 35,844	35,844 35,844				
14	5			0.27	0.11	35,844	35,844	35,844				
15	6			0.27	0.11	35,844	35,844	35,844				
16	7			0.27	0.11	35,844	35,844	35,844	250,908			
17	8			0.27	0.11	35,844	35,844	35,844	200,000			
18	9			0.27	0.11	35,844	35,844	35,844				
19	10			0.27	0.11	35,844	35,844	35,844				
20	11			0.27	0.11	35,844	35,844	35,844				
21	12			0.27	0.11	35,844	35,844	35,844				
22	13			0.27	0.11	35,844	35,844	35,844				
23	14			0.27	0.11	35,844	35,844	35,844	250,908			
24	15			0.27	0.11	35,844	35,844	35,844				
25	16			0.27	0.11	35,844	35,844	35,844				
26	17			0.27	0.11	35,844	35,844	35,844				
27	18			0.27	0.11	35,844	35,844	35,844				
28	19			0.27	0.11	35,844	35,844	35,844				
29 30	20			0.27	0.11	35,844	35,844	35,844	250,000			
31	21			0.27 0.27	0.11 0.11	35,844 35,844	35,844 35,844	35,844 35,844	250,908			
32	22 23			0.27	0.11	35,844 35,844	35,844 35,844	35,844 35,844				
33	24			0.27	0.11	35,844	35,844	35,844				
34	25			0.27	0.11	35,844	35,844	35,844				
35	26			0.27	0.11	35,844	35,844	35,844				
36	27			0.27	0.11	35,844	35,844	35,844				
37	28			0.27	0.11	35,844	35,844	35,844	250,908			
38	29			0.27	0.11	35,844	35,844	35,844	,			
39	30			0.27	0.11	35,844	35,844	35,844	71,688			
40												
41	Total (ac-ft)	0.00	0.00	3.24	3.30	3.30	3.30	3.30	3.30			
42	Total (gal)	0	0	1,055,757	1,075,308	1,075,320	1,075,320	1,075,320	1,075,320			

П	A	В	С	D	Е	F	G	Н	ı	J	К	L
1							nd (Golf Course Pond)					
2 3 4 5 6 7							Accounting Record y - Monthly Tab					
4						IVIA	y - Wontniy Tab					
5											Signed:	
6		La	ake Surface Area (acres)	4.80							Date:	
7			Pan Factor	0.60								
8												
		Diversion Volume	Groundwater Volume	Default Evaporation	Default Evaporation	Default Evaporation	Calculated Net Inflow	Depleted Net Inflow	Supplemental			
	Day	(gal)	(gal)	Rate	(ac-ft)	(gal)	(gal)	(gal)	Groundwater Release	Comments		
9		(94.)	(94.)	(in)	` '				(gal)			
10	1			0.29	0.12	39,102	39,102	39,102			4	
11 12	2			0.29	0.12 0.12	39,102 39.102	39,102 39.102	39,102 39,102				
13	4		1	0.29	0.12	39,102 39,102	39,102	39,102 39.102			1	
14	5			0.29	0.12	39,102	39,102	39,102				
15	6			0.29	0.12	39,102	39,102	39,102			1	
16	7			0.29	0.12	39,102	39,102	39,102	273,714		1	
17	8			0.29	0.12	39,102	39,102	39,102				
18	9			0.29	0.12	39,102	39,102	39,102				
19	10			0.29	0.12	39,102	39,102	39,102				
20	11			0.29	0.12	39,102	39,102	39,102			4	
21	12			0.29	0.12	39,102	39,102	39,102				
22	13 14			0.29	0.12 0.12	39,102 39.102	39,102 39,102	39,102 39,102	273.714		-	
24	15			0.29	0.12	39,102	39,102	39,102	2/3,/14		+	
25	16			0.29	0.12	39,102	39,102	39,102				
26	17			0.29	0.12	39,102	39,102	39,102			1	
27	18			0.29	0.12	39,102	39,102	39,102				
28	19			0.29	0.12	39,102	39,102	39,102				
29	20			0.29	0.12	39,102	39,102	39,102				
30	21			0.29	0.12	39,102	39,102	39,102	273,714		4	
31	22			0.29	0.12 0.12	39,102	39,102	39,102			4	
32	23 24			0.29	0.12	39,102 39,102	39,102 39,102	39,102 39,102			-	
34	25			0.29	0.12	39,102	39,102	39,102			1	
35	26		†	0.29	0.12	39,102	39,102	39,102			1	
36	27			0.29	0.12	39,102	39,102	39,102			1	
37	28			0.29	0.12	39,102	39,102	39,102	273,714		1	
38	29			0.29	0.12	39,102	39,102	39,102				
39	30			0.29	0.12	39,102	39,102	39,102				
40	31			0.29	0.12	39,102	39,102	39,102	117,306			
41	Total (ac-ft)	0.00	0.00	3.60	3.72	3.72	3.72	3.72	3.72		4	
42	Total (gal)	0	0	1,171,760	1,212,166	1,212,162	1,212,162	1,212,162	1,212,162		l	

	Α	В	С	D	Е	F	G	Н	1	J	K	L
1						Dove Por	nd (Golf Course Pond)					
3 4 5						Water	Accounting Record ne - Monthly Tab					
4						Jur	ie - Wontniy Tab					
5											Signed:	
6		La	ake Surface Area (acres)	4.80							Date:	
7			Pan Factor	0.67							·	
8											_	
1 1		Diversion Volume	Groundwater Volume	Default Evaporation	Default Evaporation	Default Eveneration	Calculated Net Inflow	Depleted Net Inflow	Supplemental			
	Day	(gal)	(gal)	Rate	(ac-ft)	(gal)	(gal)	(gal)	Groundwater Release	Comments		
9		(gui)	(gui)	(in)					(gal)			
10	1			0.37	0.15	48,878	48,878	48,878				
11	2			0.37	0.15	48,878	48,878	48,878			1	
12	3			0.37	0.15	48,878	48,878	48,878			4	
13	4			0.37 0.37	0.15 0.15	48,878 48,878	48,878 48,878	48,878 48,878			4	
15	<u>5</u>			0.37	0.15	48,878	48,878 48,878	48,878			4	
16	7			0.37	0.15	48,878	48,878	48,878	342,146		+	
17	8			0.37	0.15	48.878	48,878	48,878	342,140		1	
18	9			0.37	0.15	48,878	48,878	48,878			1	
19	10			0.37	0.15	48,878	48,878	48,878			1	
20	11			0.37	0.15	48,878	48,878	48,878			1	
21	12			0.37	0.15	48,878	48,878	48,878				
22	13			0.37	0.15	48,878	48,878	48,878				
23	14			0.37	0.15	48,878	48,878	48,878	342,146			
24	15			0.37	0.15	48,878	48,878	48,878				
25	16			0.37	0.15	48,878	48,878	48,878				
26 27	17			0.37 0.37	0.15 0.15	48,878	48,878 48,878	48,878			4	
28	18 19			0.37	0.15	48,878 48,878	48,878 48,878	48,878 48,878			-	
29	20			0.37	0.15	48,878	48,878	48,878			+	
30	21			0.37	0.15	48,878	48,878	48,878	342.146		1	
31	22			0.37	0.15	48,878	48,878	48,878	0.2,1.0		1	
32	23			0.37	0.15	48,878	48,878	48,878			1	
33	24			0.37	0.15	48,878	48,878	48,878				
34	25			0.37	0.15	48,878	48,878	48,878				
35	26			0.37	0.15	48,878	48,878	48,878			_	
36	27			0.37	0.15	48,878	48,878	48,878			1	
37	28			0.37	0.15	48,878	48,878	48,878	342,146		1	
38	29			0.37	0.15	48,878	48,878	48,878	07.750		4	
39 40	30			0.37	0.15	48,878	48,878	48,878	97,756		4	
41	Total (ac-ft)	0.00	0.00	4.44	4.50	4.50	4.50	4.50	4.50		4	
42	Total (gal)	0.00	0.00	1,446,778	1.466.330	1,466,340	1,466,340	1,466,340	1.466.340		1	
42	i otai (yai)			1,440,770	1,400,330	1,400,340	1,400,340	1,400,340	1,400,340		1	

П	Α	В	С	D	E	F	G	Н	ı	J	К	L
1		•	•				nd (Golf Course Pond)		•			
2 3 4 5 6 7						Water	Accounting Record					
3						Ju	ly - Monthly Tab					
4											0: 1	
5			-l Cf A ()	4.00							Signed:	
7		La	ake Surface Area (acres) Pan Factor								Date:	
-/ 			Pan Factor	0.09								
0				D.C. # E					0		П	
	Day	Diversion Volume	Groundwater Volume	Default Evaporation Rate	Default Evaporation	Default Evaporation	Calculated Net Inflow	Depleted Net Inflow	Supplemental Groundwater Release	Comments		
	Day	(gal)	(gal)	(in)	(ac-ft)	(gal)	(gal)	(gal)		Comments		
9	1			0.42	0.17	55,395	55,395	55,395	(gal)		4	
10	2			0.42	0.17	55,395	55,395	55,395			+	
12	3			0.42	0.17	55,395	55,395	55,395			+	
13	4			0.42	0.17	55,395	55,395	55,395			†	
14	5			0.42	0.17	55,395	55,395	55,395			7	
15	6			0.42	0.17	55,395	55,395	55,395			7	
16	7			0.42	0.17	55,395	55,395	55,395	387,765		7	
17	8			0.42	0.17	55,395	55,395	55,395				
18	9			0.42	0.17	55,395	55,395	55,395				
19	10			0.42	0.17	55,395	55,395	55,395				
20	11			0.42	0.17	55,395	55,395	55,395			_	
21	12			0.42	0.17	55,395	55,395	55,395			_	
22	13			0.42	0.17	55,395	55,395	55,395			4	
23	14			0.42 0.42	0.17 0.17	55,395 55,395	55,395 55,395	55,395 55,395	387,765		4	
25	15 16			0.42	0.17	55,395	55,395	55,395			-	
26	17			0.42	0.17	55,395	55,395	55,395			+	
27	18			0.42	0.17	55,395	55,395	55,395			+	
28	19			0.42	0.17	55,395	55,395	55,395			7	
29	20			0.42	0.17	55,395	55,395	55,395			7	
30	21			0.42	0.17	55,395	55,395	55,395	387,765			
31	22			0.42	0.17	55,395	55,395	55,395]	
32	23			0.42	0.17	55,395	55,395	55,395		<u> </u>	_	
33	24			0.42	0.17	55,395	55,395	55,395			_	
34	25			0.42	0.17	55,395	55,395	55,395			4	
35	26			0.42	0.17	55,395	55,395	55,395			4	
36 37	27		1	0.42 0.42	0.17 0.17	55,395	55,395	55,395	207.705		4	
38	28 29			0.42	0.17	55,395 55,395	55,395 55,395	55,395 55,395	387,765		+	
39	30			0.42	0.17	55,395	55,395	55,395			+	
40	31		 	0.42	0.17	55,395	55,395	55,395	166,185		+	
41	Total (ac-ft)	0.00	0.00	5.21	5.27	5.27	5.27	5.27	5.27		+	
42	Total (gal)	0.00	0.00	1,697,032	1,717,235	1,717,245	1,717,245	1,717,245	1,717,245		†	

	Α	В	С	D	E	F	G	Н	1 1	J	К	L
1							d (Golf Course Pond)					
2 3 4 5 6						Water	Accounting Record					
3						Augi	ust - Monthly Tab					
5											Signed:	
6		La	ake Surface Area (acres)	4.80							Date:	
7		2.	Pan Factor								Duto.	
8												
		B1		Default Evaporation	B. C. H. E	B. C. H. E	0.1. 1.4. 1 11.41.5	Destruction of the state of the	Supplemental			
1 1	Day	Diversion Volume	Groundwater Volume	Rate	Default Evaporation (ac-ft)		Calculated Net Inflow		Groundwater Release	Comments		
9		(gal)	(gal)	(in)	(ac-ii)	(gal)	(gal)	(gal)	(gal)			
10	1			0.38	0.15	48,878	48,878	48,878				
11	2			0.38	0.15	48,878	48,878	48,878			_	
12	3			0.38	0.15	48,878	48,878	48,878			_	
13	4			0.38	0.15	48,878	48,878	48,878			4	
14	5			0.38	0.15	48,878	48,878	48,878				
15 16	<u>6</u> 7			0.38 0.38	0.15 0.15	48,878 48,878	48,878 48.878	48,878 48.878	342,146		4	
17	8			0.38	0.15	48,878	48,878	48,878	342,146		-	
18	9			0.38	0.15	48,878	48,878	48,878			+	
19	10			0.38	0.15	48,878	48,878	48.878			-	
20	11			0.38	0.15	48,878	48,878	48,878			†	
21	12			0.38	0.15	48,878	48.878	48.878			7	
22	13			0.38	0.15	48,878	48,878	48,878			7	
23	14			0.38	0.15	48,878	48,878	48,878	342,146			
24	15			0.38	0.15	48,878	48,878	48,878				
25	16			0.38	0.15	48,878	48,878	48,878				
26	17			0.38	0.15	48,878	48,878	48,878			4	
27	18			0.38	0.15	48,878	48,878	48,878				
28	19 20			0.38 0.38	0.15 0.15	48,878 48,878	48,878 48,878	48,878 48,878			-	
29 30	20			0.38	0.15	48,878 48,878	48,878 48,878	48,878	342.146		+	
31	22			0.38	0.15	48,878	48,878	48,878	342,140		+	
32	23			0.38	0.15	48.878	48,878	48.878			†	
33	24			0.38	0.15	48,878	48,878	48,878			1	
34	25			0.38	0.15	48,878	48,878	48,878			1	
35	26			0.38	0.15	48,878	48,878	48,878			1	
36	27			0.38	0.15	48,878	48,878	48,878				
37	28			0.38	0.15	48,878	48,878	48,878	342,146		_	
38	29			0.38	0.15	48,878	48,878	48,878				
39	30			0.38	0.15	48,878	48,878	48,878			4	
40	31	0.00	0.00	0.38	0.15 4.65	48,878	48,878 4.65	48,878	146,634 4.65		4	
41	Total (ac-ft)	0.00	0.00	4.71		4.65		4.65			4	
42	Total (gal)	0	0	1,535,410	1,515,207	1,515,218	1,515,218	1,515,218	1,515,218		1	

П	Α	В	С	D	E	F	G	Н	1	J	K	L
1							nd (Golf Course Pond)					
2 3 4 5 6							Accounting Record					
3						Septer	mber - Monthly Tab					
4											0: 1	
5			-l Cf A ()	4.80							Signed: Date:	
7		Lè	ake Surface Area (acres) Pan Factor								Date:	
8			FallFactor	0.73								
-				Default Francisco					Complemental		Ì	
	Day	Diversion Volume	Groundwater Volume	Default Evaporation Rate	Default Evaporation	Default Evaporation	Calculated Net Inflow	Depleted Net Inflow	Supplemental Groundwater Release	Comments		
	Day	(gal)	(gal)	(in)	(ac-ft)	(gal)	(gal)	(gal)		Comments		
10	4			0.30	0.12	39,102	39,102	39,102	(gal)			
11	1 2			0.30	0.12	39,102	39,102 39,102	39,102				
12	3			0.30	0.12	39,102	39,102	39,102				
13	4			0.30	0.12	39,102	39,102	39,102				
14	5			0.30	0.12	39,102	39,102	39,102				
15	6			0.30	0.12	39,102	39,102	39,102				
16	7			0.30	0.12	39,102	39,102	39,102	273.714			
17	8			0.30	0.12	39,102	39,102	39,102	1			
18	9			0.30	0.12	39,102	39,102	39,102				
19	10			0.30	0.12	39,102	39,102	39,102				
20	11			0.30	0.12	39,102	39,102	39,102				
21	12			0.30	0.12	39,102	39,102	39,102				
22	13			0.30	0.12	39,102	39,102	39,102				
23	14			0.30	0.12	39,102	39,102	39,102	273,714			
24	15			0.30	0.12	39,102	39,102	39,102				
25	16			0.30	0.12	39,102	39,102	39,102				
26	17			0.30	0.12	39,102	39,102	39,102				
27 28	18			0.30 0.30	0.12 0.12	39,102 39,102	39,102 39,102	39,102 39,102				
29	19 20			0.30	0.12	39,102	39,102	39,102				
30	21		 	0.30	0.12	39,102	39,102	39,102	273,714			
31	22			0.30	0.12	39,102	39,102	39,102	210,114			
32	23			0.30	0.12	39,102	39,102	39,102				
33	24			0.30	0.12	39,102	39,102	39,102				
34	25			0.30	0.12	39,102	39,102	39,102				
35	26			0.30	0.12	39,102	39,102	39,102			1	
36	27			0.30	0.12	39,102	39,102	39,102				
37	28			0.30	0.12	39,102	39,102	39,102	273,714			
38	29			0.30	0.12	39,102	39,102	39,102				
39	30			0.30	0.12	39,102	39,102	39,102	78,204	<u> </u>		
40												
41	Total (ac-ft)	0.00	0.00	3.60	3.60	3.60	3.60	3.60	3.60			
42	Total (gal)	0	0	1,173,064	1,173,064	1,173,060	1,173,060	1,173,060	1,173,060			

П	A	В	С	D	Е	F	G	Н	1	J	К	L
1						Dove Por	nd (Golf Course Pond)					
3						Water	Accounting Record ber - Monthly Tab					
4						Octo	ber - Monthly Tab					
4											Signed:	
6		La	ake Surface Area (acres)	4.80							Date:	
7			Pan Factor	0.77								
8												
1 1		Diversion Volume	Groundwater Volume	Default Evaporation	Default Evaporation	Default Evaporation	Calculated Net Inflow	Depleted Net Inflow	Supplemental			
1 1	Day	(gal)	(gal)	Rate	(ac-ft)	(gal)	(gal)	(gal)	Groundwater Release	Comments		
9		,	ις /	(in)					(gal)			
10	1 2			0.22 0.22	0.09	29,327 29,327	29,327 29,327	29,327 29,327			-	
12	3			0.22	0.09	29,327	29,327	29,327			+	
13	4			0.22	0.09	29,327	29,327	29,327			†	
14	5			0.22	0.09	29,327	29,327	29,327			†	
15	6			0.22	0.09	29,327	29,327	29,327			1	.
16	7			0.22	0.09	29,327	29,327	29,327	205,289		Ī	
17	8			0.22	0.09	29,327	29,327	29,327				
18	9			0.22	0.09	29,327	29,327	29,327			1	
19	10			0.22	0.09	29,327	29,327	29,327			1	
20	11 12			0.22 0.22	0.09	29,327	29,327	29,327 29.327			1	
21	13			0.22	0.09	29,327 29,327	29,327 29,327	29,327			-	
23	14			0.22	0.09	29,327	29,327	29,327	205.289		+	
24	15			0.22	0.09	29,327	29,327	29,327	203,203		+	
25	16			0.22	0.09	29,327	29,327	29,327			†	
26	17			0.22	0.09	29,327	29,327	29,327			1	
27	18			0.22	0.09	29,327	29,327	29,327			Ī	
28	19			0.22	0.09	29,327	29,327	29,327]	
29	20			0.22	0.09	29,327	29,327	29,327			1	.
30	21			0.22	0.09	29,327	29,327	29,327	205,289		4	
31	22			0.22 0.22	0.09	29,327 29.327	29,327 29.327	29,327 29.327			1	
32	23 24			0.22	0.09	29,327	29,327	29,327			+	.
34	25			0.22	0.09	29,327	29,327	29,327			+	
35	26			0.22	0.09	29,327	29,327	29,327			†	.
36	27			0.22	0.09	29,327	29,327	29,327			1	
37	28			0.22	0.09	29,327	29,327	29,327	205,289		1	
38	29			0.22	0.09	29,327	29,327	29,327]	
39	30			0.22	0.09	29,327	29,327	29,327]	
40	31			0.22	0.09	29,327	29,327	29,327	87,981		1	
41	Total (ac-ft)	0.00	0.00	2.73	2.79	2.79	2.79	2.79	2.79		1	
42	Total (gal)	0	0	888,922	909,124	909,137	909,137	909,137	909,137		1	

П	Α	В	С	D	Е	F	G	Н	1	J	K	L
1							nd (Golf Course Pond)					
2 3 4 5 6 7							Accounting Record					
3						Nover	nber - Monthly Tab					
4											0: 1	
5		1.	ake Surface Area (acres)	4.00							Signed: Date:	
7		Li	Pan Factor								Date:	
8			Pan Factor	0.8								
0				D.C. # E					0		1	
	Day	Diversion Volume	Groundwater Volume	Default Evaporation Rate	Default Evaporation	Default Evaporation	Calculated Net Inflow	Depleted Net Inflow	Supplemental Groundwater Release	Comments		
_	Day	(gal)	(gal)		(ac-ft)	(gal)	(gal)	(gal)		Comments		
9				(in)	0.00	10.551	40.554	10.551	(gal)		4	
10	1 2			0.15 0.15	0.06 0.06	19,551 19,551	19,551 19,551	19,551 19,551				
12	3			0.15	0.06	19,551	19,551	19,551			+	
13	4			0.15	0.06	19,551	19,551	19,551			+	
14	5			0.15	0.06	19,551	19,551	19,551			1	
15	6			0.15	0.06	19,551	19,551	19,551			1	
16	7			0.15	0.06	19,551	19,551	19,551	136,857			
17	8			0.15	0.06	19,551	19,551	19,551	100,000			
18	9			0.15	0.06	19,551	19,551	19,551				
19	10			0.15	0.06	19,551	19,551	19,551				
20	11			0.15	0.06	19,551	19,551	19,551			1	
21	12			0.15	0.06	19,551	19,551	19,551				
22	13			0.15	0.06	19,551	19,551	19,551				
23	14			0.15	0.06	19,551	19,551	19,551	136,857			
24	15			0.15	0.06	19,551	19,551	19,551				
25	16			0.15	0.06	19,551	19,551	19,551				
26	17			0.15	0.06	19,551	19,551	19,551				
27	18			0.15	0.06	19,551	19,551	19,551			4	
28	19			0.15	0.06	19,551	19,551	19,551			4	
29 30	20 21			0.15 0.15	0.06	19,551 19,551	19,551 19,551	19,551 19,551	136.857		-	
31	22			0.15	0.06	19,551	19,551	19,551	130,007		+	
32	23			0.15	0.06	19,551	19,551	19,551			+	
33	24			0.15	0.06	19,551	19,551	19,551			1	
34	25			0.15	0.06	19,551	19,551	19,551			1	
35	26			0.15	0.06	19,551	19,551	19,551			1	
36	27			0.15	0.06	19,551	19,551	19,551				
37	28			0.15	0.06	19,551	19,551	19,551	136,857			
38	29			0.15	0.06	19,551	19,551	19,551				
39	30			0.15	0.06	19,551	19,551	19,551	39,102			
40											_	
41	Total (ac-ft)	0.00	0.00	1.80	1.80	1.80	1.80	1.80	1.80			
42	Total (gal)	0	0	586,532	586,532	586,530	586,530	586,530	586,530			

П	A	В	С	D	E	F	G	Н	1	J	K	L
1							nd (Golf Course Pond)					
2 3 4 5 6 7							Accounting Record					
3						Decer	nber - Monthly Tab				0: 1	
4											Signed: Date:	
5		L	ake Surface Area (acres)	4.80							Date:	
7		Li	Pan Factor	0.77								
8			FallFactor	0.77								
Ť				Default Evaporation					Supplemental			
	Day	Diversion Volume	Groundwater Volume	Rate	Default Evaporation		Calculated Net Inflow		Groundwater Release	Comments		
_	Day	(gal)	(gal)	(in)	(ac-ft)	(gal)	(gal)	(gal)	(gal)	Comments		
10	1			0.11	0.04	13,034	13,034	13,034	(gai)		-	
11	2			0.11	0.04	13,034	13,034	13,034			-	
12	3			0.11	0.04	13,034	13,034	13,034			1	
13	4			0.11	0.04	13,034	13,034	13,034			1	
14	5			0.11	0.04	13,034	13,034	13,034			1	
15	6			0.11	0.04	13,034	13,034	13,034			1	
16	7			0.11	0.04	13,034	13,034	13,034				
17	8			0.11	0.04	13,034	13,034	13,034				
18	9			0.11	0.04	13,034	13,034	13,034				
19	10			0.11	0.04	13,034	13,034	13,034				
20	11			0.11	0.04	13,034	13,034	13,034			_	
21	12			0.11	0.04	13,034	13,034	13,034				
22	13 14			0.11 0.11	0.04 0.04	13,034 13,034	13,034 13,034	13,034 13,034	100 170		4	
24	14			0.11	0.04	13,034	13,034	13,034	182,476		4	
25	16			0.11	0.04	13,034	13,034	13,034			-	
26	17			0.11	0.04	13,034	13,034	13,034			1	
27	18			0.11	0.04	13,034	13,034	13,034			1	
28	19			0.11	0.04	13,034	13,034	13,034			1	
29	20			0.11	0.04	13,034	13,034	13,034			1	
30	21			0.11	0.04	13,034	13,034	13,034			1	
31	22			0.11	0.04	13,034	13,034	13,034				
32	23			0.11	0.04	13,034	13,034	13,034			_	
33	24			0.11	0.04	13,034	13,034	13,034			1	
34	25			0.11	0.04	13,034	13,034	13,034				
35	26			0.11	0.04	13,034	13,034	13,034			4	
36	27			0.11	0.04	13,034	13,034	13,034	100 170		4	
37 38	28			0.11 0.11	0.04 0.04	13,034 13,034	13,034 13,034	13,034 13,034	182,476		4	
39	29 30			0.11	0.04	13,034	13,034	13,034			-	
40	30			0.11	0.04	13,034	13,034	13,034	39,102		4	
41	Total (ac-ft)	0.00	0.00	1.36	1.24	1.24	1.24	1.24	1.24		┪	
											1	
42	Total (gal)	0	0	444,461	404,055	404,054	404,054	404,054	404,054			

Dove Pond (Golf Course Pond) Water Accounting Record Evap Data Tab

Month	Days in Month	TWDB 75th Percentile Monthly Rate (in)	Daily Pan Rate (in)	Pan Factor
January	31	2.48	0.11	0.73
February	28	2.95	0.15	0.70
March	31	4.53	0.21	0.69
April	30	5.40	0.27	0.67
May	31	5.39	0.29	0.60
June	30	7.38	0.37	0.67
July	31	9.04	0.42	0.69
August	31	8.35	0.38	0.70
September	30	6.57	0.30	0.73
October	31	5.14	0.22	0.77
November	30	3.52	0.15	0.80
December	31	2.74	0.11	0.77

Dove Pond (Golf Course Pond) Water Accounting Record TWDB Pan Lake Factor Tab

TWDB Link

					Tex	as Water D	Developmen	it Board					
Quad	Jan	Feb	Mar	Apr	Mo May	nthly Pan F Jun	actor Used Jul	in Evap Aug	Sep	Oct	Nov	Dec	Ann
410	0.73	0.7	0.69	0.67	0.6	0.67	0.69	0.7	0.73	0.77	0.8	0.77	0.7
412	0.74	0.71	0.7	0.68	0.61	0.68	0.7	0.71	0.74	0.78	0.81	0.78	0.71
413 414	0.76	0.73	0.72	0.71	0.65	0.71	0.72	0.73	0.76	0.79	0.81	0.79	0.73
501	0.77	0.74	0.73	0.72	0.66	0.72	0.73	0.68	0.71	0.74	0.82	0.74	0.74
502	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
504	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
505 506	0.7	0.67	0.66	0.65	0.59	0.65	0.66 0.67	0.67	0.7	0.73 0.75	0.75	0.73	0.67
507	0.72	0.69	0.68	0.65	0.57	0.65	0.68	0.69	0.72	0.77	0.81	0.77	0.69
508	0.72	0.69	0.68	0.65	0.57	0.65	0.68	0.69	0.72	0.77	0.81	0.77	0.69
510	0.73	0.7	0.69	0.67	0.6	0.67	0.69	0.7	0.73	0.77	0.8	0.77	0.7
511 512	0.74	0.71	0.7	0.68	0.61	0.68	0.7	0.71	0.74	0.78	0.81	0.78	0.71
513 514	0.76	0.73	0.72	0.71	0.65	0.71	0.72	0.73	0.76	0.79	0.81	0.79	0.73
601	0.77	0.74	0.73	0.72	0.66	0.72	0.73	0.74	0.77	0.8	0.82	0.8	0.74
602	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
604	0.69	0.67	0.66	0.65	0.61	0.65	0.67	0.67	0.7	0.72	0.75	0.72	0.67
605	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
607	0.71	0.68	0.67	0.66	0.61	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
608	0.72	0.69	0.68	0.67	0.61	0.67	0.68	0.69	0.72	0.75	0.77	0.75	0.69
610	0.73	0.7	0.69	0.67	0.6	0.67	0.69	0.7	0.73	0.77	0.8	0.77	0.7
611 612	0.74	0.71	0.7	0.69	0.63	0.69	0.7	0.71	0.74	0.77	0.79	0.77	0.71
613	0.75	0.72	0.71	0.69	0.62	0.69	0.71	0.72	0.75	0.79	0.82	0.79	0.72
614 701	0.76	0.74	0.74	0.73	0.68	0.73	0.74	0.74	0.76	0.79	0.8	0.79	0.74
701 702 703	0.71	0.68	0.67	0.66	0.6	0.66	0.67 0.67	0.68	0.71	0.74	0.76	0.74	0.68
703	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
704 705	0.69	0.67	0.67	0.66	0.61	0.66	0.67	0.67	0.69	0.72	0.73	0.72	0.67
706 707	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
708	0.72	0.69	0.68	0.67	0.61	0.67	0.68	0.69	0.72	0.75 0.75	0.77	0.75	0.69
709 710	0.73	0.7	0.69	0.67	0.6	0.67	0.69	0.7	0.73	0.77	0.8	0.77	0.7
711 712	0.73	0.71	0.69	0.67	0.65	0.67	0.69	0.71	0.73	0.77	0.8	0.77	0.7
712	0.74	0.72	0.72	0.71	0.66	0.71	0.72	0.72	0.74	0.77	0.78	0.77	0.72
713 714	0.75	0.73 0.74	0.73	0.72	0.67	0.72	0.73	0.73 0.74	0.75	0.78	0.79	0.78	0.73 0.74
801 802	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
803	0.68	0.67	0.66	0.64	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
804 805	0.69	0.67	0.67	0.66	0.61	0.66	0.67	0.67	0.69	0.72	0.73	0.72	0.67
206	0.7	0.67	0.66	0.65	0.59	0.65	0.66 0.66	0.67	0.7	0.73	0.75	0.73 0.73	0.67
807	0.72	0.69	0.68	0.67	0.61	0.67	0.68	0.69	0.72	0.75	0.77	0.75	0.69
808 809	0.71	0.69	0.69	0.68	0.63	0.68	0.69	0.69	0.71	0.74	0.75	0.74	0.69
810 811	0.72	0.7	0.7	0.69	0.64	0.69	0.7	0.7	0.72	0.75	0.76	0.75	0.7
812	0.73	0.71	0.71	0.72	0.68	0.72	0.71	0.71	0.73	0.76	0.77	0.76	0.71
813 814	0.75	0.73	0.73	0.73	0.69	0.73	0.73	0.73	0.75	0.77	0.77	0.77	0.73
901	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.76	0.79	0.76	0.74	0.68
902	0.68	0.67	0.66	0.64	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
903 904	0.69	0.67	0.67 0.67	0.66	0.61 0.61	0.66	0.67 0.67	0.67	0.69	0.72 0.72	0.73 0.73	0.72 0.72	0.67 0.67
905	0.7	0.67 0.67	0.66	0.65	0.59	0.65	0.66 0.66	0.67 0.67	0.7	0.73 0.73	0.75 0.75	0.73	0.67 0.67
907	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
908 909	0.71	0.69	0.69	0.68	0.63	0.68	0.69	0.69	0.71	0.74	0.75	0.74	0.69
910 911	0.72	0.7	0.7	0.69	0.64	0.69	0.7	0.7	0.72	0.75	0.76	0.75	0.7
911	0.73	0.71	0.71	0.72	0.65	0.72	0.71	0.71	0.73	0.76	0.77	0.76	0.71
912 913	0.74	0.72	0.72	0.72	0.68	0.72	0.72	0.72	0.74 0.74	0.76	0.76	0.76	0.72
914 1001	0.74	0.72 0.68	0.72 0.67	0.72	0.68	0.72 0.66	0.72 0.67	0.72 0.68	0.74	0.76 0.74	0.76 0.76	0.76	0.72 0.68
1002	0.68	0.67	0.66	0.64	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
1003 1004	0.69	0.67	0.67	0.66	0.61	0.66	0.67	0.67	0.69	0.72	0.73	0.72	0.67
1005 1006	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
1007	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.71	0.73	0.75	0.73	0.67
1008 1009	0.71	0.69	0.69	0.68	0.63	0.68	0.69	0.69	0.71	0.74	0.75	0.74	0.69
1010	0.72	0.7	0.7	0.69	0.64	0.69	0.7	0.7	0.72	0.75	0.76	0.75	0.7
1011 1012	0.73	0.71	0.71	0.7	0.65	0.7	0.71	0.71	0.73	0.76	0.77	0.76	0.71
1013	0.74	0.72	0.72	0.72	0.68	0.72	0.72	0.72	0.74	0.76 0.76	0.76	0.76 0.76	0.72
1014 1101	0.74	0.72	0.72	0.72	0.68	0.72	0.72	0.72	0.74	0.76	0.76	0.76	0.72
1102	0.68	0.67	0.66	0.64	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
1103 1104	0.69	0.67	0.67	0.66	0.61	0.66	0.67	0.67	0.69	0.72	0.73	0.72	0.67
1105	0.7	0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
1106 1107	0.7	0.67	0.66	0.65	0.59	0.65	0.66 0.67	0.67	0.7	0.73	0.75	0.73	0.67
1108	0.71	0.69	0.69	0.69	0.65	0.69	0.69	0.69	0.71	0.73	0.73	0.73	0.69
1109 1110	0.72	0.7	0.7	0.7	0.66	0.7	0.7	0.7	0.72	0.74	0.74	0.74	0.7
1111	0.73	0.71	0.71	0.7	0.65	0.7	0.71	0.71	0.73	0.76	0.77	0.76	0.71
1112	0.74	0.72	0.72	0.72	0.68	0.72	0.72	0.72	0.74	0.76	0.76	0.76	0.72
1113 1114	0.74	0.72	0.72	0.72	0.68	0.72	0.72	0.72	0.74	0.76	0.76	0.76	0.72
1201 1202	0.71	0.68	0.67	0.66	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
1203	0.69	0.67	0.67	0.66	0.61	0.66	0.67	0.67	0.69	0.72	0.73	0.72	0.67
	0.69	0.67	0.67	0.66	0.61	0.66	0.67	0.67	0.69	0.72	0.73	0.72	0.67
1204 1205		0.67	0.66	0.65	0.59	0.65	0.66	0.67	0.7	0.73	0.75	0.73	0.67
1204 1205 1206	0.7		0.67	0.66	0.6	0.66	0.67	0.68	0.71	0.74	0.76	0.74	0.68
1204 1205 1206 1207 1208	0.71	0.68			0.65	0.69							
1204 1205 1206 1207 1208 1209	0.71 0.71 0.72	0.69	0.69	0.69	0.65 0.66	0.69	0.69	0.69	0.72	0.74	0.73 0.74	0.74	0.7
1204 1205 1206 1207 1208 1209 1210	0.71 0.71 0.72 0.72	0.69 0.7 0.7	0.69 0.7 0.7	0.69 0.7 0.7	0.66 0.66	0.7	0.7	0.7	0.72 0.72	0.74 0.74	0.74 0.74	0.74 0.74	0.7
1204 1205 1206 1207 1208 1209 1210 1211 1212 1213 1214	0.71 0.71 0.72	0.69	0.69	0.69	0.66	0.7	0.7	0.7	0.72	0.74	0.74	0.74	0.7

Dove Pond (Golf Course Pond) Water Accounting Record TWDB Evap Tab

EVAP DATA SOURCE: https://waterdatafortexas.org/lake-evaporation-rainfall

Texas Water Development Board

Monthly lake surface evaporation in inches	, annual total evaporation in inches
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	YEAR 1954 1955 1955 1956 1957 1958 1958 1959 1960 1961 1962 1962 1964 1965 1966 1967 1968 1967 1968 1970 1971 1972 1973 1974 1975	JAN 1.52 2.02 2.61 2.03 2.00 1.85 1.87 1.54 1.61 1.75 2.28 2.35 1.54 2.92 1.03 2.27 1.41 3.05 1.88	FEB 4.47 2.52 2.67 1.86 2.08 2.09 2.56 2.63 3.48 2.30 2.36 2.22 1.83 3.14 1.93 2.30 2.30	MAR 5.36 4.45 5.57 3.21 2.66 5.75 3.46 4.63 4.59 4.83 4.25 2.92 4.48 5.48 3.28	APR 6.19 5.85 6.00 3.03 4.07 5.13 5.40 5.55 4.22 5.39 4.82 4.89 4.81	MAY 4.86 6.12 6.92 3.72 4.81 5.18 6.29 5.84 6.95 4.96 4.75 3.49	9.58 7.12 9.20 6.29 7.66 6.36 7.72 5.83 5.59 7.29 7.68	JUL 11.25 8.94 11.41 9.21 9.46 6.85 7.70 6.60 7.59	AUG 11.21 8.03 11.42 9.45 8.42 8.36 7.35 7.42	9.06 7.05 9.26 6.06 5.31 6.56 6.99	5.86 6.39 6.56 3.91 3.71 4.48 4.54	3.78 4.92 3.95 2.22 3.44 3.18	3.06 2.92 3.07 2.91 2.19 2.48	76.20 66.33 78.64 53.90 55.81
510 510 510 510 510 510 510 510 510 510	1955 1956 1957 1958 1959 1960 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971 1972 1973 1974 1975	2.02 2.61 2.03 2.00 1.85 1.87 1.54 1.61 1.75 2.28 2.35 1.54 2.92 1.03 2.27 1.41 3.05 1.88	2.52 2.67 2.08 2.08 2.09 2.56 2.63 3.48 2.30 2.36 2.22 1.83 3.14 1.93 2.30	4.45 5.57 3.21 2.66 5.75 3.46 4.63 4.59 4.83 4.25 2.92 4.48 5.48 3.28	5.85 6.00 3.03 4.07 5.13 5.40 5.55 4.22 5.39 4.82 4.89	6.12 6.92 3.72 4.81 5.18 6.29 5.84 6.95 4.96 4.75	7.12 9.20 6.29 7.66 6.36 7.72 5.83 5.59 7.29	8.94 11.41 9.21 9.46 6.85 7.70 6.60 7.59	8.03 11.42 9.45 8.42 8.36 7.35 7.42	7.05 9.26 6.06 5.31 6.56 6.99	6.39 6.56 3.91 3.71 4.48	4.92 3.95 2.22 3.44 3.18	2.92 3.07 2.91 2.19	66.33 78.64 53.90
510 510 510 510 510 510 510 510 510 510	1956 1957 1958 1958 1969 1960 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971 1972 1973 1974 1975	2.61 2.03 2.00 1.85 1.87 1.54 1.61 1.75 2.28 2.35 1.54 2.92 1.03 2.27 1.41 3.05 1.88	2.67 1.86 2.08 2.09 2.56 2.63 3.48 2.30 2.36 2.22 1.83 3.14 1.93 2.30	5.57 3.21 2.66 5.75 3.46 4.63 4.59 4.83 4.25 2.92 4.48 5.48 3.28	6.00 3.03 4.07 5.13 5.40 5.55 4.22 5.39 4.82 4.89	6.92 3.72 4.81 5.18 6.29 5.84 6.95 4.96 4.75	9.20 6.29 7.66 6.36 7.72 5.83 5.59 7.29	11.41 9.21 9.46 6.85 7.70 6.60 7.59	9.45 8.42 8.36 7.35 7.42	9.26 6.06 5.31 6.56 6.99	6.56 3.91 3.71 4.48	3.95 2.22 3.44 3.18	3.07 2.91 2.19	78.64 53.90
510 510 510 510 510 510 510 510 510 510	1957 1958 1959 1960 1961 1962 1963 1964 1965 1966 1967 1969 1970 1970 1971 1972 1973 1974 1975	2.03 2.00 1.85 1.87 1.54 1.61 1.75 2.28 2.35 1.54 2.92 1.03 2.27 1.41 3.05 1.88	1.86 2.08 2.09 2.56 2.63 3.48 2.30 2.36 2.22 1.83 3.14 1.93 2.30	3.21 2.66 5.75 3.46 4.63 4.59 4.83 4.25 2.92 4.48 5.48 3.28	3.03 4.07 5.13 5.40 5.55 4.22 5.39 4.82 4.89 4.81	3.72 4.81 5.18 6.29 5.84 6.95 4.96 4.75	6.29 7.66 6.36 7.72 5.83 5.59 7.29	9.21 9.46 6.85 7.70 6.60 7.59	9.45 8.42 8.36 7.35 7.42	6.06 5.31 6.56 6.99	3.91 3.71 4.48	2.22 3.44 3.18	2.91 2.19	53.90
510 510 510 510 510 510 510 510 510 510	1958 1959 1960 1961 1962 1963 1964 1965 1966 1966 1969 1970 1971 1972 1973 1973 1974 1976	2.00 1.85 1.87 1.54 1.61 1.75 2.28 2.35 1.54 2.92 1.03 2.27 1.41 3.05 1.88	2.08 2.09 2.56 2.63 3.48 2.30 2.36 2.22 1.83 3.14 1.93 2.30	2.66 5.75 3.46 4.63 4.59 4.83 4.25 2.92 4.48 5.48 3.28	4.07 5.13 5.40 5.55 4.22 5.39 4.82 4.89 4.81	4.81 5.18 6.29 5.84 6.95 4.96 4.75	7.66 6.36 7.72 5.83 5.59 7.29	9.46 6.85 7.70 6.60 7.59	8.42 8.36 7.35 7.42	5.31 6.56 6.99	3.71 4.48	3.44 3.18	2.19	
510 510 510 510 510 510 510 510 510 510	1959 1960 1961 1961 1962 1963 1964 1965 1966 1967 1969 1970 1971 1971 1972 1973 1974 1975	1.85 1.87 1.54 1.61 1.75 2.28 2.35 1.54 2.92 1.03 2.27 1.41 3.05 1.88	2.09 2.56 2.63 3.48 2.30 2.36 2.22 1.83 3.14 1.93 2.30	5.75 3.46 4.63 4.59 4.83 4.25 2.92 4.48 5.48 3.28	5.13 5.40 5.55 4.22 5.39 4.82 4.89 4.81	5.18 6.29 5.84 6.95 4.96 4.75	6.36 7.72 5.83 5.59 7.29	6.85 7.70 6.60 7.59	8.36 7.35 7.42	6.56 6.99	4.48	3.18		
510 510 510 510 510 510 510 510	1960 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971 1972 1973 1974 1975 1976	1.87 1.54 1.61 1.75 2.28 2.35 1.54 2.92 1.03 2.27 1.41 3.05 1.88	2.56 2.63 3.48 2.30 2.36 2.22 1.83 3.14 1.93 2.30	3.46 4.63 4.59 4.83 4.25 2.92 4.48 5.48 3.28	5.40 5.55 4.22 5.39 4.82 4.89 4.81	6.29 5.84 6.95 4.96 4.75	7.72 5.83 5.59 7.29	7.70 6.60 7.59	7.35 7.42	6.99				58.27
510 510 510 510 510 510 510 510	1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971 1972 1973 1974 1975 1976	1.54 1.61 1.75 2.28 2.35 1.54 2.92 1.03 2.27 1.41 3.05 1.88	2.63 3.48 2.30 2.36 2.22 1.83 3.14 1.93 2.30	4.63 4.59 4.83 4.25 2.92 4.48 5.48 3.28	5.55 4.22 5.39 4.82 4.89 4.81	5.84 6.95 4.96 4.75	5.83 5.59 7.29	6.60 7.59	7.42			3.54	1.86	59.28
510 510 510 510 510 510 510 510	1962 1963 1964 1965 1966 1967 1968 1969 1970 1971 1972 1973 1974 1975	1.61 1.75 2.28 2.35 1.54 2.92 1.03 2.27 1.41 3.05 1.88	3.48 2.30 2.36 2.22 1.83 3.14 1.93 2.30	4.59 4.83 4.25 2.92 4.48 5.48 3.28	4.22 5.39 4.82 4.89 4.81	6.95 4.96 4.75	5.59 7.29	7.59		7.11	4.77	2.77	1.97	56.66
510 510 510 510 510 510 510 510	1963 1964 1965 1966 1967 1968 1969 1970 1971 1972 1973 1974 1975 1976	1.75 2.28 2.35 1.54 2.92 1.03 2.27 1.41 3.05 1.88	2.30 2.36 2.22 1.83 3.14 1.93 2.30	4.83 4.25 2.92 4.48 5.48 3.28	5.39 4.82 4.89 4.81	4.96 4.75	7.29		8.05	5.19	4.60	2.74	1.87	56.48
510 510 510 510 510 510 510 510	1964 1965 1966 1967 1968 1969 1970 1971 1972 1973 1974 1975 1976	2.28 2.35 1.54 2.92 1.03 2.27 1.41 3.05 1.88	2.36 2.22 1.83 3.14 1.93 2.30	4.25 2.92 4.48 5.48 3.28	4.82 4.89 4.81	4.75		9.14	8.63	6.00	6.33	3.84	1.77	62.23
510 510 510 510 510 510 510 510	1965 1966 1967 1968 1969 1970 1971 1972 1973 1974 1975 1976	2.35 1.54 2.92 1.03 2.27 1.41 3.05 1.88	2.22 1.83 3.14 1.93 2.30	2.92 4.48 5.48 3.28	4.89 4.81			10.18	8.31	5.92	4.54	2.93	2.35	60.37
510 510 510 510 510 510 510 510	1967 1968 1969 1970 1971 1972 1973 1974 1975 1976	2.92 1.03 2.27 1.41 3.05 1.88	3.14 1.93 2.30	5.48 3.28			6.41	9.03	7.93	7.11	4.21	2.66	1.77	54.99
510 510 510 510 510 510 510 510	1968 1969 1970 1971 1972 1973 1974 1975 1976	1.03 2.27 1.41 3.05 1.88	3.14 1.93 2.30	3.28		4.28	6.62	7.82	6.33	4.24	4.58	4.01	2.18	52.72
510 510 510 510 510 510 510 510	1969 1970 1971 1972 1973 1974 1975 1976	2.27 1.41 3.05 1.88	2.30		5.10	5.78	7.02	7.65	8.33	4.70	5.07	2.81	2.07	60.07
510 510 510 510 510 510 510 510	1969 1970 1971 1972 1973 1974 1975 1976	2.27 1.41 3.05 1.88	2.30		4.09	4.33	5.78	6.96	7.77	5.63	4.87	3.20	2.58	51.45
510 510 510 510 510 510 510 510 510 510	1970 1971 1972 1973 1974 1975 1976	3.05 1.88		3.14	4.46	4.41	7.79	9.61	7.16	4.91	4.55	2.89	1.92	55.41
510 510 510 510 510 510 510 510	1972 1973 1974 1975 1976	1.88		2.97	4.09	4.91	6.54	8.25	8.54	5.51	4.07	3.68	3.26	55.56
510 510 510 510 510 510 510 510 510 510	1973 1974 1975 1976		3.56	5.75	5.78	6.03	8.19	8.99	5.52	5.58	3.77	3.42	2.15	61.79
510 510 510 510 510 510 510 510 510 510	1974 1975 1976		2.84	5.11	5.78	5.11	7.30	8.17	7.60	5.67	4.78	2.65	1.69	58.58
510 510 510 510 510 510 510 510 510	1975 1976	1.81	2.09	4.18	3.57	5.11	5.45	6.85	7.27	4.89	3.64	3.28	2.96	51.10
510 510 510 510 510 510 510	1976	1.87	3.62	4.61	5.97	5.52	7.83	9.35	6.63	3.47	3.81	2.55	1.97	57.20
510 510 510 510 510 510		2.20	2.21	3.24	3.67	3.57	6.41	6.50	6.37	5.41	5.20	3.97	1.94	50.69
510 510 510 510 510	1977	3.66	3.84	4.81	4.07	4.63	6.48	5.78	7.13	4.90	3.25	2.14	2.28	52.97
510 510 510 510		1.62	2.92	4.22	4.69	4.14	7.27	9.13	7.42	7.78	5.13	3.34	3.53	61.19
510 510 510	1978	2.11	1.38	4.48	5.48	5.35	7.59	9.93	8.24	5.18	5.78	2.67	2.61	60.80
510 510	1979	2.03	1.74	3.67	4.16	4.30	6.55	7.26	6.55	6.02	6.43	2.85	1.97	53.53
510	1980	1.86	2.75	3.96	5.39	4.67	8.86	10.97	9.78	6.98	5.41	3.44	2.21	66.28
	1981	1.91	2.17	4.02	4.67	4.98	5.44	8.13	7.80	5.74	3.49	3.29	2.32	53.96
	1982	2.67	2.61	3.77	4.30	4.54	6.24	7.31	7.75	6.57	4.91	2.97	2.40	56.04
	1983	1.69	1.95	3.60	5.28	5.08	5.89	7.63	6.90	6.54	4.82	3.64	1.62	54.64
510	1984	2.72	3.11	4.29	6.02	6.63	8.76	9.21	8.52	7.23	3.73	3.13	1.99	65.34
510	1985	2.24	1.59	3.59	4.64	5.27	6.98	7.93	9.45	7.14	3.82	2.51	2.12	57.28
510	1986	2.85	2.65	4.77	4.75	4.67	5.88	9.27	7.38	5.64	3.96	2.59	1.47	55.88
510 510	1987 1988	1.96 2.47	2.05 2.97	3.50 4.91	5.81 5.77	4.47 6.17	5.64 6.40	7.65 8.19	8.94 8.38	5.69 6.32	5.79 4.41	3.05 3.92	2.17 2.44	56.72 62.35
510	1989	1.98	2.97	3.70	5.28	5.21	5.98	7.11	6.90	5.95	5.91	3.93	3.20	57.34
510	1990	2.31	2.19	2.85	4.00	5.21	7.92	7.11	6.99	5.34	4.78	3.93	1.70	53.90
510	1991	1.56	2.32	4.54	4.34	4.67	6.11	8.94	7.86	5.37	5.98	2.83	1.95	56.54
510	1992	1.33	2.31	3.79	4.22	4.01	5.73	7.65	6.27	5.82	5.10	2.70	1.72	50.65
510	1993	1.64	2.14	3.29	4.36	5.02	6.63	11.23	10.45	7.69	4.89	2.77	2.36	62.47
510	1994	1.97	2.20	3.62	4.63	3.98	6.75	7.80	7.74	4.77	3.93	2.56	1.49	51.68
510	1995	2.05	2.51	3.00	4.22	4.18	6.07	7.51	6.95	5.08	5.78	3.48	2.82	53.65
510	1996	2.74	3.69	4.52	6.08	7.08	7.08	8.18	5.98	4.36	4.43	2.80	3.10	60.04
510	1997	2.68	2.29	3.63	4.21	4.50	5.89	7.83	7.26	6.72	4.65	2.73	2.72	55.11
510	1998	1.78	1.91	3.79	5.62	6.35	8.82	10.21	7.69	5.94	4.67	2.79	1.87	61.44
510	1999	2.93	3.08	3.33	5.34	5.26	5.92	8.10	9.69	7.01	5.65	3.71	3.07	62.97
510	2000	3.33	3.47	3.82	3.62	4.54	5.17	7.80	8.47	7.05	4.91	2.84	1.93	56.85
510	2001	2.13	2.32	2.69	4.26	5.38	6.76	8.70	7.68	4.76	4.53	3.25	2.22	54.68
510	2002	2.40	2.68	3.77	4.22	4.93	6.16	6.23	7.44	5.92	3.24	3.13	2.15	52.27
510	2003	2.13	1.74	3.54	5.17	4.57	5.67	7.79	6.95	4.82	4.22	3.75	3.38	53.73
	2004	2.23	2.08	3.90	3.93	4.81	5.27	6.51	6.33	5.37	3.94	2.78	2.48	49.63
510	2005	2.25	2.25	3.71	4.95	4.29	6.57	7.15	6.21	6.94	5.32	4.50	3.07	57.2
510	2006	4.08	3.05	4.71	5.60	5.78	7.43	8.00	8.83	5.90	4.90	3.47	2.34	64.0
510	2007	1.69	2.91	3.58	4.03	3.88	5.29	5.26	6.49	4.77	4.76	3.41	2.29	48.3
	2008	2.48	3.00	4.45	4.85	5.17	7.76	8.47	6.71	5.01	4.77	3.94	2.89	59.5
510	2009	2.51	3.59	4.44	5.04	4.42	6.96	7.54	7.85	4.46	3.46	2.97	2.21	55.4
510	2010	1.98	1.83	3.77	4.54	5.15	6.20	5.91	6.87	5.00	5.12	3.26	2.75	52.3
510	2011	2.04	2.33	4.66	6.29	5.64	9.04	10.21	10.77	7.74	5.15	3.51	1.99	69.3
510	2012	2.84	2.55	3.08	4.36	5.95	6.77	7.98	7.93	6.15	4.68	4.28	3.45	60.0
510	2013	3.04	3.21	5.09	4.92	5.08	7.32	7.89	8.08	6.39	4.27	3.18	1.97	60.66
510	2014	2.43	2.48	3.87	5.74	5.77	6.78	7.15	7.62	5.75	5.37	3.43	1.94	58.60
510	2015	2.43	2.49	3.48	4.39	4.06	6.53	8.22	7.37	6.11	5.39	3.52	2.66	56.46
510	2016	2.17	3.37	4.09	4.12	3.69	6.03	7.69	4.07	5.17	4.63	3.30	2.83	51.0
510	2017	2.96	3.51	3.97	4.44	5.06	6.06	9.05	6.22	4.92	4.97	3.05	2.30	56.63
510	2018	2.11	2.39	4.00	4.40	5.39	7.48	7.65	7.72	4.04	3.67	1.88	1.81	53.16
510	2019	1.76	1.75	2.98	2.69	2.78	3.65	5.97	6.96	5.90	4.58	2.30	2.21	43.18
510	2020	1.71	2.43	2.67	3.64	4.7	6.11	6.05	7.75	3.7	4.17	2.88	1.92	47.94

