

WATER PAYMENT APPEAL FORM

Name on Account: Tushar Shah and Julie Shah
Service Address: 4824 Rollingwood Drive
Account Number:
Amount Due:
Telephone Number: <u>512-791-9287</u>
Email Address:
Reason for Appeal to the Rollingwood Utility Commission: 1) Please identify the months that you are contesting. 2) Please provide the reason for dispute. 3) Please provide 12 months of history. 4) Provide any other information to support appeal.
See attached:
Letter 5/9/2022 Email Water bill history Eco Irrigation history Conserva Irrigation history Water Softener history Pool assessment independent expert report
Signature: Date: <u>8/26/2022</u>

By signing this form, you are promising to appear before the next Utility Commission meeting.



Rollingwood Utility Department

Leak Adjustment Request Form

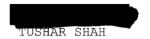
Name on Account: Tushar and Julie Shah
Service Address: 4824 Rollingwood Drive
Account Number:
Phone Number: 512-791-9282
Email Address:
Total Contested Amount: # 13,634.33
Description:See email
see emad
Consumption Months for which an adjustment is being requested:
- August 2021 - November 2022
Seeking adjustment to Winter Average? (Months of November through March)
Date of Repair:
Explanation of Repair:
Proof of repair attached See email
Note: if there is no proof of leak and subsequent repair, an Appeal for a bill adjustment will

have to be made to the Utility Commission.

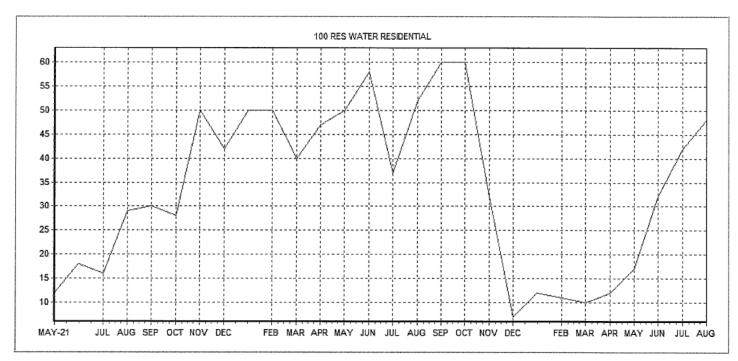
Date	Description	Amount
9/9/2021	Bill	\$370.17
10/6/2021	Bill	\$385.17
11/9/2021	Bill	\$355.17
12/9/2021	Bill	\$775.17
1/13/2022	Bill	\$607.17
2/11/2022	Bill	\$775.17
3/9/2022	Bill	\$775.17
4/4/2022	Bill	\$565.17
5/6/2022	Bill	\$993.33
6/6/2022	Bill	\$1,056.33
6/30/2022	Bill	\$1,280.33
8/2/2022	Bill	\$783.33
9/7/2022	Bill	\$1,112.33
10/4/2022	Bill	\$1,336.33
11/1/2022	Bill	\$1,336.33
12/1/2022	Bill	\$696.33
12/30/2022	Bill	\$431.33
		\$13,634.33

Consumption History

Account Name



Service Address 4824 ROLLINGWOOD DR



YEAR	MONTH	READ DATE	PREVIOUS READ	CURRENT READ	TOTAL CONSUMPTION	DEMAND READ	DEMAND CONSUMPTION	READING FLAG	READING SOURCE	OCCUPANT
2023	Aug	8/23/23	1205	1253	48			Regular	Meter Reading Input	01
	Jul	7/23/23	1163	1205	42			Regular	Meter Reading Input	01
	Jun	6/23/23	1131	1163	32			Regular	Meter Reading Input	01
	May	5/23/23	1114	1131	17			Regular	Meter Reading Input	01
	Apr	4/23/23	1102	1114	12			Regular	Meter Reading Input	01
	Mar	3/23/23	1092	1102	10			Regular	Meter Reading Input	01
	Feb	2/23/23	1081	1092	11			Regular	Meter Reading Input	01
	Jan	1/23/23	1069	1081	12			Regular	Meter Reading Input	01
2022	Dec	12/23/22	1062	1069	7			Regular	Meter Reading Input	01
	Nov	11/23/22	1030	1062	32			Regular	Meter Reading Input	01
	Oct	10/23/22	970	1030	60			Regular	Meter Reading Input	01
	Sep	9/23/22	910	970	60			Regular	Meter Reading Input	01
	Aug	8/23/22	858	910	52			Regular	Meter Reading Input	01
	Jul	7/23/22	821	858	37			Regular	Meter Reading Input	01
	Jun	6/23/22	763	821	58			Regular	Meter Reading Input	01
	May	5/23/22	713	763	50			Regular	Meter Reading Input	01
	Apr	4/23/22	666	713	47			Regular	Manual Read	01
	Mar	3/23/22	626	666	40			Regular	Manual Read	01
	Feb	2/23/22	576	626	50			Regular	Manual Read	01
	Jan	1/23/22	526	576	50			Regular	Manual Read	01
2021	Dec	12/23/21	484	526	42			Regular	Manual Read	01
	Nov	11/23/21	434	484	50			Regular	Manual Read	01
	Oct	10/23/21	406	434	28			Regular	Manual Read	01
	Sep	9/23/21	376	406	30			Regular	Manual Read	01
	Aug	8/23/21	347	376	29			Regular	Manual Read	01
	Jul	7/23/21	331	347	16			Regular	Manual Read	01
	Jun	6/23/21	313	331	18			Regular	Manual Read	01
	May	5/23/21	301	313	12			Regular	Manual Read	01

City of Rollingwood Water Payment Appeal Form Tushar and Julie Shah Account

First, please know that when we designed our house our goal was to embrace technology and systems to make it efficient and use fewer resources to run it. We invested in every available option to improve insulation, have efficient air conditioners, solar panels, and rainwater harvesting. Each of these involved added cost and compilation with the architect and builder.

We are doing our best to address each of 3 frustrating issues which we believe are contributing to our overconsumption of water, especially since September 2021.

Irrigation System

We tried to do the right thing by investing in rainwater harvesting. We even installed a second rainwater collection tank. We consulted professionals about the optimal way to integrate the rainwater collection with the irrigation system. Unfortunately this has been a frustrating process that we are still trying to get working correctly, 2+ years later. The irrigation system has been confusing to several contractors we hired to come check where we might be losing water. We have had multiple contractors out and each time they have identified another leak.

Water Softener Leak

We ended up removing the water softener as it was causing so many problems.

Pool

Our pool has started to crack and we are losing water very slowly. The pool builder has agreed that mistakes were made during the construction process. We have filed claims against our home builder, the pool builder, and the concrete company used by the pool builder. They commissioned an engineer study which confirmed there were mistakes made during construction. To avoid additional damage we are keeping the pool full because apparently emptying a pool can cause even more cracking. We are waiting for the insurance company to reply as to what the next steps are. They are supposed to reply to our claim by September 5, 2022.

Enclosed please find some supporting documents.

Best regards.

Julie Shah



Julie Shah <julieshah100@gmail.com>

4824 Rollingwood water bills

1 message

Julie Shah

Mon, May 9, 2022 at 11:24 AM

To: ccaylor@rollingwoodtx.gov, Tushar & Julie & Ajay & Aric & Krina Shah

Carrie.

We wanted to communicate with you and the City about our water bills. They have been so high. We know there are several things going on at the house and we are doing our best to address each of them.

First, we worked with Eco Irrigation who identified and fixed a leak at the relief valve on the drip line. This is the photo they sent of the problem they uncovered. This should have been repaired as of May 1.



Second, the water softener is leaking in the garage. We filed a warranty claim with our builder and just found out last week they are denying the warranty claim due to fine print. Now we are trying to find a plumber who can help us. Supposedly someone is able to come this Wednesday.

And finally, the biggest problem - we have cracks in our pool that are causing leaks. Our pool builder Stag Pools has admitted fault - that they used a concrete company that used a bad formula of concrete and the pool walls are cracking. We are in the process of negotiating with Stag's insurance company and trying to find a new contractor to remove the current pool and build a new pool. We have been advised not to drain the pool because it could cause permanent damage so in the meantime we are trying to keep just enough water in the pool to keep the pump from burning out.

All this to say we are sorry we are being the neighbors who are using more than our share of water. We are exasperated with all these problems and are doing our best to get them solved. As you know it's particularly difficult to get contractors right now.

Let me know if we need to do anything.

Best regards.

Julie and Tushar Shah

Julie Shah



282516.jpeg 930K

ECO Irrigation and Landscaping, Inc.

1000 S West Rd

Leander, TX 78641 Phone: 512-778-9919

Statement

Date 6/3/2022

Julie Shah 4824 Rollingwood Drive Austin, TX 78746

1/1/2021 Balance Forward \$0.00			Amount Due	Amount Enclosed
1/1/2021 Balance Forward			\$0.00	
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•		t = 875.00			
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4/29/2022 Irrigati	on Service,1.00 @	195.00 = 195.00			
Payment - Ref. #\	Via Client Portal			(\$195.00)	\$0.00
Payment on invoi	ce #38367 - Amoun	t = 195.00			
1-30 DAYS PAST DUE	31-60 DAYS PAST DUE	61-90 DAYS PAST DUE	OVER 90 DAYS PAST DUE	Credits Refunds Adjustments Unused Pmnt	Amount Due
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ECO Irrigation and Landscaping, Inc.

1000 S West Rd Leander, TX 78641 Phone: 512-778-9919

Statement

Date 8/25/2022

Julie Shah 4824 Rollingwood Drive Austin, TX 78746

					Amount Due	Amount Enclosed
					\$0.00	
Date	Transaction			1844	Amount	Balance
6/1/2022	Balance Forward				\$0.00	\$0.00
8/11/2022	Payment Payment on invoice	ce #39999 - Amoun	t = 1875.00		(\$1,875.00)	(\$1,875.00)
8/22/2022	water to a critical located at the top system operates. water when tanks master valve will to pump or rain s 3750.00 8/22/2022 Install irrigation system., 8/22/2022 Install is to prevent back cross connection 0.00 = 0.00 8/22/2022 Re-wir valve installed on	Paid Irrent system fills the level when there is of the rear tank. The After the work is fine are full but when the urn on the water to system during this operation of the main irrigation leve and/or cap the collection.	no rain water thro is quote is to char ished, the system here is no water in the city and irrigate peration.,1.00 @ 3 he main water line ain Water Line of the main harvesting startine.,1.00 @ 0.00 =	ugh an Air Gap nge the way the will use rain the tanks, a te accordingly 8750.00 = e feeding the the House. This ally creates a system.,1.00 @ aks to the new = 0.00	\$3,750.00	\$1,875.00
8/23/2022	Payment	ce #39999 - Amoun	t = 1875.00		(\$1,875.00)	\$0.00
Current	1-30 DAYS PAST DUE	31-60 DAYS PAST DUE	61-90 DAYS PAST DUE	OVER 90 DAYS PAST DUE	Credits Refunds Adjustments Unused Pmnt	Amount Due
\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

RECEIPT

Thank you for your payment!

Conserva Irrigation of West Austin - LI0026736
5501 Balcones Dr

Suite A-220

Austin, TX 78731
(512) 887-1891



https://www.conservairrigation.com/west-austin/

Billing/Service Address

Julie Shah 4824 rolling wood dr West Lake Hills, 78746 (512) 791-9282

Invoice #	12066267
Date	June 03, 2022
Balance Due	\$0.00

Description	Quantity	Unit Price	Amount
Service call/repair work	1	0.00	\$0.00
Service Call Charge	1	100.00	\$100.00
Drip Line Leak	3	35.00	\$105.00
\$50 Off Mailer Discount	1	-50.00	(\$50.00)
		Subtotal	\$155.00
		Tax	\$12.79
		Total	\$167.79
	Credit Ca	ard Pmt 6/3/2022 on 6/3/2022	\$167.79
	Service call/repair work Service Call Charge Drip Line Leak \$50 Off Mailer	Service call/repair work 1 Service Call Charge 1 Drip Line Leak 3 \$50 Off Mailer 1 Discount	Service call/repair 1 0.00 Service Call Charge 1 100.00 Drip Line Leak 3 35.00 \$50 Off Mailer 1 -50.00 Discount Subtotal Tax Total Credit Card Pmt 6/3/2022 on

RECEIPT

Thank you for your payment!

Conserva Irrigation of West Austin - LI0026736
5501 Balcones Dr

Suite A-220

Austin, TX 78731
(512) 887-1891



https://www.conservairrigation.com/west-austin/

Billing/Service Address

Julie Shah 4824 rolling wood dr West Lake Hills, 78746 (512) 791-9282

Invoice #	12066313
Date	July 08, 2022
Balance Due	\$0.00

Item	Description	Quantity	Unit Price	Amount
Service Call	Service call/repair work	1	0.00	\$0.00
Service Call Charge	Service Call Charge	1	100.00	\$100.00
Spray Nozzle Installed	Spray Nozzle Installed	3	20.00	\$60.00
Raise/Straighten Head	Raise/Straighten Head	3	40.00	\$120.00
			Subtotal	\$280.00
			Tax	\$23.10
			Total	\$303.10
		Card on F	le Pmt 7/8/2022 on 7/8/2022	\$303.10



	Julie Sh	h
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Plumbing leak and cracks

1 message

Tushar Shah Mon, May 2, 2022 at 6:09 PM To: " Julie Shah

Hello,

We have founded a leak at the plumbing connections at the water softener in the garage. We have also noticed cracks in the garage pavement where this leak has occurred.

Pictures are attached.

Please let us know the warranty coverage so we can get this problem addressed asap.

Thank you.

Tushar and Julie Shah





Julie Shah

Warranty

1 message

Steve Osborne

Fri, May 6, 2022 at 6:08 PM

To:

, Wade Gilbreath

Hey Julie,

I saw your warranty request, the water softener leak would not be covered under warranty. It's only a 1 year warranty. Also the cracks in the garage is a normal thing. The cracks would have to be 1/4 or more to be considered an issue. Let me know if you have any questions.

Thanks

Steve

Sent via the Samsung Galaxy S21 5G, an AT&T 5G smartphone Get Outlook for Android

Account Number -		SHA	LINGWOOD DR		
Date	Packet	Type	Receipt #	Reference	Debits
08/02/2022	000493	Bill	Maria Alica de Maria	6/23- 7/23 08/23	783.3
06/30/2022	000440	Bill		5/23- 6/23 07/23	1,280.3
06/06/2022	000387	Bill		4/19- 5/23 06/23	1,056.3
06/02/2022	000380	Payment	9768	939	
05/06/2022	000335	Bill		3/23- 4/19 05/23	993.3
04/26/2022	000324	Payment	9239	934	
04/04/2022	000300	Bill		2/23- 3/23 04/25	565.1
03/18/2022	000278	Payment	8583	1037	
03/09/2022	000263	Bill		1/23- 2/23 03/23	775.1
02/11/2022	000221	Bill		12/23- 1/23 02/23	775.1
02/10/2022	000216	Payment	8035	1036	
01/13/2022	000186	Bill		11/23-12/23 01/27	607.1
12/09/2021	000156	Bill		10/23-11/23 12/27	775.1
11/17/2021	000143	Payment	7058	1008	
11/09/2021	000138	Bill		9/23-10/23 11/23	355.1
10/06/2021	000116	Bill		8/23- 9/23 10/23	385.1
09/09/2021	000096	Bill		7/23- 8/23 09/23	370.1
08/06/2021	000074	Bill		6/23- 7/23 08/23	220.1
07/19/2021	000052	Payment	5444	3251	
07/07/2021	000042	Bill		5/23- 6/23 07/23	240.1
06/30/2021	000034	Payment	5009	746	
06/07/2021	000025	Bill		4/23- 5/23 06/23	183.1
05/03/2021	000001	Adjustment		LOAD AWR BAL 5-3-21	230.1



Julie Shah

Re: Rain Harvesting

1 message

Nicole Chisolm To: Julie Shah Cc: Adam Benefield Thu, May 5, 2022 at 10:49 AM

Julie,

the service call was for a spring start-up and Alex fixed a leak at your relief valve on the drip line. Please see the picture below.



On Thu, May 5, 2022 at 9:46 AM Julie Shah wrote: Touching base about the service we had done last week. Could you let me know what changes were made to the sprinklers?

Julie Shah (512)791-9282

> On Jun 17, 2021, at 1:09 PM, Nicole Chisolm wrote:

Most definitely, thank you.

On Thu, Jun 17, 2021 at 1:07 PM Adam Benefield wrote: Thanks Nicole.

1803 West Ave. | Austin, Texas 78701 | 512.416.8999

July 22, 2022

Cass Brewer Legacy DCS, LLC 205 Wild Basin Road South, Bldg. One Austin, Texas 78746

via email and regular and certified mail

John Staigerwald Stag Pools 9301 US-290 Suite100 Austin, Texas 78736

via email and regular and certified mail

Re: Tusher and Julie Shah / 4824 Rollingwood Drive, Austin, Tx 78746

DEMAND FOR WARRANTY REPAIRS AND RCLA NOTICE LETTER

Gentlemen:

I have been retained by Tushar and Julie Shah to assist with the present dispute which has arisen regarding the pool which was constructed by Stag Pools as a subcontractor of Legacy DCS, LLC ("Legacy") at the Shah's residence. Mr. and Mrs. Shah have patiently tried to work with Stag Pools and its insurance representative directly for the past several months to resolve the construction defects which exist relating to their pool yet to date no resolution has been proposed or realized in connection with this dispute. Also, since June, you both have been in possession of an engineering report which clearly established and documented the defects at issue, the cause of the defects and contained a plan of repair. Accordingly, this letter is being sent to place you both on notice of these pool related construction defects pursuant to the terms of Texas Property Code, Chapter 27, the Texas Residential Construction Liability Act ("RCLA") and pursuant to Legacy's warranty. Demand is hereby made that each of you as stated below to ascertain the cause of the defects and repair the construction defects noted herein. Demand is also hereby made upon Stag Pools for the property damages caused to the Shah's residence as a direct and proximate result of Stag's negligence.

RCLA / Warranty demand

Legacy as the general contractor is responsible for repair of the construction defects noted herein both under the construction contract and under Texas common law. Stag Pools, as the pool subcontractor, is also responsible for the construction defects based on the implied warranties which exist under Texas law. Both of you also had a duty to complete this work in a good and workman like manner and failed to do so. Demand is hereby made that each of you respectively pay for the cost to remove and replace the pool in accordance with the plan of repair recommended by your investigative engineer or alternatively you tender payment to my clients in the amount of \$297,689.00 per the enclosed bid from Trinity Pools and Scapes so that my clients and complete the necessary work to the pool.

On March 5th Mr. Shah notified John Staigerwald of Stag Pools that he noticed several cracks in the pool and asked for him to take a look. John conducted a visual inspection on March 10th. During his visit, Mr. Shah told John that he believed the pool was losing water. Through his inspection, John noticed additional cracks in the pool and he also went under the decking which the pool is up against, and he said that he noticed that areas of the concrete there were also wet. He also noticed wet areas on the backside of the pool. John told Mr. Shah that his opinion is that there was a bad formulation on the concrete and that a complete removal and replacement of the pool and all pool equipment, underground lines, landscaping etc. would be needed to fix the problem. John came to this conclusion as he said he has had 20+ pools over the last 12-18 months with the exact same issue.

Upon extensive inspection and diligence of those pools, including analysis of concrete core samples, John further stated it was determined that the concrete was not properly formulated which resulted in the cracks and the pools leaking water. John told Mr. Shah that the concrete company used for the Shah's pool was the same concrete that Stag had used for the other pools Stag built which were also failing and cracking. Obviously, these defects are not my client's fault but rather Legacy and Stag are the parties who need to deal with this issue and replace the pool. Since June, you both have been in possession of an engineering report which supports Johns' suspicions and confirms that inferior concrete appears to be the cause of the defects. Your investigative engineering report clearly established and documented the defects at issue, the cause of the defects and your liability for the damages at issue.

Mr. and Mrs. Shah will agree to assign any and all subrogation rights and/or claims they have against any other parties, to you both, in exchange for resolution of this matter. Time is of the essence therefore your prompt response is appreciated.

Reimbursement for Fees and Expenses

Under RCLA my client is also entitled to be reimbursed for all consultant's fees and legal fees incurred in connection with this matter. The reasonable and necessary attorney's fees incurred to date total \$500.00 and demand for payment of such fees is also hereby demanded as well as any additional consulting and/or legal fees incurred through final resolution of this claim.

Response Requested

Under RCLA you have 45 days from the date of your receipt of this demand and notice letter to respond. If your repair offer is not furnished within 45 days from the date of your receipt of this RCLA demand letter as required by law, then please be advised that a lawsuit may be filed immediately thereafter without further notice seeking recovery of all damages listed herein as well as additional investigative expenses, consultant's fees, additional living expenses, diminution in value, statutory fines and penalties, as well as additional reasonable and necessary attorney's fees, interest, and court costs.

My clients prefer that this matter be handled amicably and in an expeditious manner. Time is of the essence due to the fact that the damages are continuing to occur and my clients desire to repair the pool so they can enjoy it this summer. I look forward to receiving your response. In the meantime, should you have any questions, please feel free to contact me.

Sincerely,

Nicholas S. Bressi

Encls.

cc: Tushar & Julie Shah

Veronica Hernandez

Good morning Mrs. Shah,

From:	Julie Shah
Sent:	Tuesday, September 5, 2023 4:50 PM
To:	Veronica Hernandez
Subject:	Re: FW: 4824 Rollingwood water
Attachments:	image001.png
What time is the meeting?	
On Tue, Sep 5, 2023 at 4:09 PM	Veronica Hernandez < <u>vhernandez@rollingwoodtx.gov</u> > wrote:
Hello Mrs. Shah,	
Tieno iviisi siidii,	
	eeting will be on September 18, 2023; will you be able to attend this meeting? If you can
please let me know as soon as	possible, so we can add you to the agenda packet.
Thank you,	
Veronica Hernandez	
Utility Billing Manager	
City of Rollingwood	
(512) 327-1838	
www.rollingwoodtx.gov	
A shidden reminded in the large transformed a delicion to their greater street.	
From: Veronica Hernandez	
Sent: Friday, August 25, 2023 7	59 AM
To: 'Julie Shah' Subject: RE: 4824 Rollingwood	water
,	

You are disputing high water bills from 2021 and 2022.

Per our policy, appeals should be filed as soon as possible, but no later than six months after the issuance of the first contested utility bill. Unfortunately, your request for a leak adjustment has exceeded the six month time frame and cannot be considered by the city.

You do have the option of presenting your case in front of the Utility Commission If you'd like to contest your high water bill. If you choose to do that, you will need to submit a Utility Appeal Form, proof, and provide any other information to support your appeal, which we already have. Additionally, an adjustment is not guaranteed and is at the discretion of the Utility Commission.

Thank you,

Veronica Hernandez

Utility Billing Manager

City of Rollingwood

(512) 327-1838

www.rollingwoodtx.gov



From: Julie Shah

Sent: Thursday, August 24, 2023 10:20 PM

To: Veronica Hernandez < vhernandez@rollingwoodtx.gov>

Subject: Re: 4824 Rollingwood water

No, we are still waiting for a permit to replace the leaking pool.

Julie Shah

(512)791-9282

Yes, an email was sent to the Utility Commission to see who will be available for the Utility Commission meeting. We are hoping to have a quorum for the meeting on September 5, 2023 at 5:30 pm.

I do have a question for you though; have all your leaks been repaired?

Thank you,

Veronica Hernandez

Utility Billing Manager

City of Rollingwood

(512) 327-1838

www.rollingwoodtx.gov

<image001.png>

From: Julie Shah

Sent: Thursday, August 24, 2023 2:46 PM

To: Makayla Rodriguez <<u>mrodriguez@rollingwoodtx.gov</u>> **Cc:** Veronica Hernandez <<u>vhernandez@rollingwoodtx.gov</u>>

Subject: Re: 4824 Rollingwood water

Veronica,

Should we schedule a call for next week? I am not clear where the process stands right now.

Julie Shah

(512)791-9282

On Aug 18, 2023, at 10:48 AM, Makayla Rodriguez < mrodriguez@rollingwoodtx.gov> wrote:

Julie,
Veronica is out of the office today and will reach out to you once she returns.
Best,
Makayla Rodríguez
Assistant to the City Administrator
City of Rollingwood
(512) 327-1838
www.rollingwoodtx.gov
•
From: Julie Shah Sent: Friday, August 18, 2023 10:43 AM To: Veronica Hernandez < vhernandez@rollingwoodtx.gov >; Makayla Rodriguez < mrodriguez@rollingwoodtx.gov > Subject: Re: 4824 Rollingwood water
Veronica and Makayla,
Following up on our requests below re: our water bills.
Julie
On Thu, Aug 3, 2023 at 6:42 PM Julie Shah wrote:

Any news on this?					
Julie Shah					
(512)791-9282					
Begin forwarded message:					
From: Julie Shah Date: July 18, 2023 at 1:34:09 PM CDT Subject: Re:					
Sounds good, thank you. I'll wait to hear from you.					
I really appreciate your help with this. We are trying so hard to be good neighbors and not use too much water. We installed two giant rainwater collection tanks with that goal, but unfortunately we had these issues.					
Best regards,					
Julie					
On Tue, Jul 18, 2023 at 1:31 PM Veronica Hernandez vhernandez@rollingwoodtx.gov > wrote:					
I have attached a copy of the Rollingwood Utility Customer Appeals and Process Summary.					
I will review you documents and will respond as soon as I can.					
Thank you,					
Veronica Hernandez					
Utility Billing Manager					

City of Rollingwood (512) 327-1838 www.rollingwoodtx.gov <image001.png> From: Julie Shah Sent: Tuesday, July 18, 2023 1:27 PM To: Veronica Hernandez < vhernandez@rollingwoodtx.gov> Subject: Re: Usage History Is this right? On Tue, Jul 18, 2023 at 8:06 AM Veronica Hernandez <<u>vhernandez@rollingwoodtx.gov</u>> wrote: Good morning Mrs. Shah, You can add up the months you are disputing. Thank you, Veronica Hernandez

Utility Billing Manager

City of Rollingwood

(512) 327-1838

www.rollingwoodtx.gov

<image001.png>

From: Julie Shah <

Sent: Monday, July 17, 2023 10:06 PM

To: Veronica Hernandez < vhernandez@rollingwoodtx.gov Subject: Re: Usage History	
So I should do this? What do I put for contested amount?	
On Mon, Jul 17, 2023 at 9:37 AM Veronica Hernandez vhernandez@rollingwoodtx.gov > wrote:	
Mrs. Shah, did you ever submit a leak adjustment form, instead of a water payment appeal form?	
Thank you,	
Veronica Hernandez	
Utility Billing Manager	
City of Rollingwood	
(512) 327-1838	
www.rollingwoodtx.gov	
<image001.png></image001.png>	
From: Julie Shah Sent: Sunday, July 16, 2023 7:37 PM To: Veronica Hernandez < vhernandez@rollingwoodtx.gov > Subject: Re: Usage History	
Veronica,	
Thank you for sending the usage report.	
We have been struggling with several water issues on our property, including:	

- 1. sprinkler system underground leaks,
- 2. plumbing for our rainwater collection tanks,
- 3. a leaking water softener, and
- 4. cracks in our pool.

We would like to apply for a wholesale credit. I had been waiting to get all 4 of the above issues fixed before making a lump sum claim for credit. However, we still have not received the permit to redo our pool and we do not want to wait any longer for the application for credit.

You can see by the spikes in our water usage that around mid-2021 these issues started occurring. We have been working in good faith to address them.

Issues that we HAVE successfully addressed:

- June 2021 We started working with Eco Irrigation to address the sprinkler system and plumbing for our rainwater collection tanks (see attached Eco Irrigation Account History).
- 2. May 2022 We contacted our builder about the leak from the water softener and then had to hire a plumber to remove the failing unit.
- 3. June 2022 We hired Conserva Irrigation to review the sprinkler system and they found yet another leak.
- 4. June 2022 We emailed the City of Rollingwood about these issues
- 5. August 2022 I drafted a Water Payment Appeal Form but decided not to file it until the pool issue (see below) was addressed...

Issues that we have NOT YET successfully addressed:

1. March 2022 We noticed our pool cracking and contacted the pool builder. July 2022 we hired an attorney to file a claim against the pool builder. We received a settlement and hired a new pool builder who has filed for a permit with the City of Rollingwood. As the new pool builder plans to add landscaping, the permit is still under review and we have not been able to demo the existing pool and build a new one.

Please call me at 512-791-9282 or reply by email when you are available to discuss.

Thank you and best regards, Julie Shah On Fri, Jul 14, 2023 at 12:06 PM Veronica Hernandez <<u>vhernandez@rollingwoodtx.gov</u>> wrote: Hello Mrs. Shah, I have attached a copy of your consumption history, per your request. I would like to also suggest, you can visit our website where you registered for auto - pay and you can also view your consumption history, transaction history and account detail, but please if you need anything do not hesitate to reach out to me. I hope this helps. Take care. Thank you, Veronica Hernandez **Utility Billing Manager** City of Rollingwood

<image001.png>

(512) 327-1838

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From: Julie Shah

Sent: Friday, July 14, 2023 11:48 AM

AND REPORT OF LABOR STORY	Subject: Fwd: Usage History
	Hello Veronica - could you please send me a report showing our water usage here at 4824 Rollingwood? We have struggled with sprinkler system leaks and pool leaks and want to see if we are making progress.
	Thank you -
	Julie
	Forwarded message From: Makayla Rodriguez <mrodriguez@rollingwoodtx.gov> Date: Fri, Jul 14, 2023 at 11:38 AM Subject: RE: Usage History To: Julie Shah</mrodriguez@rollingwoodtx.gov>
THE CONTRACTOR OF THE PROPERTY	Hi Julie,
ell'elle de distante hanne è color le color les enements en	Please reach out to our Utility Billing Manager, Veronica Hernandez. She can be reached at vhernandez@rollingwoodtx.gov .
Andrewson of the Party of the P	Best,
THE REPORT OF THE PROPERTY OF	Makayla Rodríguez
Olivania de la compansión de la compansi	Assistant to the City Administrator
discount of the same of the sa	City of Rollingwood
And desired to the second second	(512) 327-1838
or critical is taken	www.rollingwoodtx.gov

To: Veronica Hernandez < <u>vhernandez@rollingwoodtx.gov</u>>

Sent: Friday, July 14, 2023 11:36 AM To: Makayla Rodriguez < mrodriguez@rollingwoodtx.gov> Subject: Re: Usage History Hi Makayla Could you please send me an updated version of this report? Thank you -Julie On Wed, Sep 14, 2022 at 11:54 AM Makayla Rodriguez <mrodriguez@rollingwoodtx.gov> wrote: Julie, I have a pdf of you user history attached. Please let me know if there is anything I can do to help, Makayla Rodriguez Assistant to the City Administrator City of Rollingwood (512) 327-1838 www.rollingwoodtx.gov <image001.png>

From: Julie Shah

10 months.

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TBPE Reg. F-3467

5508 W US HWY 290 SERVICE RD, STE. 202 AUSTIN, TX 78735

Residential Swimming Pool Assessment

4824 Rollingwood Drive West Lake Hills, TX 78746

Independent Expert Report

June 8, 2022

Prepared For:

Cincinnati Insurance

By:

Carrasquillo Associates, LTD

Table of Contents

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4824 Rollingwood Drive Swimming Pool Assessment

1.0 INTRODUCTION

The following is a summary report of Carrasquillo Associates' (CA) investigation conducted to date into the observed distress in the swimming pool of the residential pool (Project) located at 4824 Rollingwood Drive, West Lake Hills, TX 78746. Cracking distress in the pool shell was initially observed in the benches, tanning beach, and spa sections. The distress was reported to the pool contractor, Stag Pools, LLC (Stag) and subsequently, CA was retained by Stag's insurance carrier, Cincinnati Insurance (Cincinnati), on behalf of Stag. CA was tasked to determine the cause(s) of the observed distress and provide repair recommendations. Presented herein is the most relevant information regarding the findings and conclusions from CA's investigation into determining the cause(s) of the distress in the pool.

CA reserves the right to modify the findings, conclusions, and recommendations contained herein as new information becomes available for review.

2.0 BACKGROUND

The residence located at 4824 Rollingwood Drive is a custom-built home that includes a custom designed swimming pool. The pool, as shown in Figure 1, consists of a 12-inch-thick shotcrete shell with #4 steel reinforcement spaced at 10 inches on-center each way. The pool also contains several aesthetic features including steps, a spa, and a crawl space underneath the pool deck. The features described are identified in Figure 1.



Figure 1: 4824 Rollingwood Drive swimming pool

The shotcrete for the pool shell was supplied and placed by EasyMix Concrete Services, LLC (EasyMix), a subcontractor to Stag, June 22, 2019. CA understands, as per communications with Stag's representatives, that the specified design compressive strength of the shotcrete was 4,500 psi and the mix design consisted of a straight cement mix without the use of fly ash or any other supplementary cementitious materials. The aggregates for the concrete mix, namely, sand and pea gravel, were supplied by Travis

Materials directly to EasyMix for use in their concrete and shotcrete products. A copy of the mix design supplied by EasyMix to Stag in 2019 is included in Appendix A.

CA understands that the homeowner contacted Stag and notified them of the cracking distress and efflorescence observed at various locations in the pool shell and the perimeter wall. The cracking distress in the pool shell was not isolated to specific locations but was systemic as it was observed at the spa, steps, walls, and crawl space of the pool. Typical examples of this distress are shown in Figures 2 to 4.



Figure 2: Cracking distress in bench along pool perimeter

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Figure 3: Cracking distress and efflorescence in crawl space underneath the pool deck



Figure 4: Cracking distress and efflorescence of exterior spa wall

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3.0 INVESTIGATION AND FINDINGS

CA understands that after the distress was reported to Stag by the homeowner, a claim

was filed with Cincinnati and subsequently CA was retained to perform the investigation

reported herein. CA's investigation to date has focused on determining the cause(s) of

the cracking distress in the pool shell and surrounding elements. The following tasks,

among others, were performed as part of CA's investigation:

Review of shotcrete mix design proportions supplied by EasyMix,

Site visit performed on May 10, 2022,

Photographic documentation,

Material sampling,

Petrographic examination of shotcrete core samples, and

Communications with residence representatives.

4.0 FINDINGS

CA's investigation included a site visit on May 10, 2022 to observe and document the

condition of the pool and surrounding elements, perform non-destructive testing, and

conduct material sampling. A petrographic examination of the shotcrete material

extracted from the pool was performed by Wiss, Janey, Elstner Associates, Inc. (WJE).

4.1 Site Observations – May 10, 2022

CA performed a site visit on May 10, 2022, to perform a photographic documentation of

the Project and extract two (2) shotcrete core samples from the swimming pool shell.

During this site visit, the spa was drained to extract the samples and to document the

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distress of the spa. The cracking distress shown in Figures 5 and 6 was systemic throughout the pool shell.



Figure 5: General overview of spa and location of the cores



Figure 6: Cracking distress and efflorescence along bench of spa

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4.2 Material Sampling and Testing

In total, CA coordinated the removal of two (2) shotcrete samples from inside the pool

shell on May 10, 2021. A sample taken from the pool spa bench was subjected to a

petrographic examination by WJE. A summary of the results is presented in Section 4.2.1

of this report and the full petrographic report by WJE is included in Appendix B.

4.2.1 Petrographic Examination

An initial petrographic examination of one (1) core extracted from the pool spa bench was

performed by Wiss, Janey, Elstner Associates, Inc. (WJE) following ASTM C856, Standard

Practice for Petrographic Examination of Hardened Concrete. WJE identified the presence

of an alkali-silica reaction (ASR).

It should be noted that fly ash which is typically used in concrete mixtures to mitigate

and/or prevent this type of ASR mechanism was not identified in the core sample.

5.0 DISCUSSION

It is CA's opinion that the primary cause of the distress in the pool is the presence of an

internal expansion mechanism resulting from an alkali-silica reaction (ASR), as identified

through petrographic examination.

Based on the findings from the investigation conducted to date, it is CA's opinion that the

distress observed in the pool shell and the external pool elements is an internal expansion

within the shotcrete caused by the ASR mechanism resulting in the observed cracking and

deterioration of the shotcrete. Further, as the shotcrete deteriorates, it creates additional

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4824 Rollingwood Drive Swimming Pool Assessment June 8, 2022

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internal cracking and passageways for moisture to penetrate the shotcrete promoting the

progression of the ASR damaging mechanism.

In general, the internal expansion damaging mechanism associated with the ASR within

the shotcrete is the result of a reaction between certain well-known alkali reactive

mineralogical components within the aggregates and alkali compounds from the portland

cement in the presence of moisture. It must be noted that for the shotcrete to experience

enough internal expansion and cracking to the extent of affecting its performance for its

intended use, all three factors involved in the ASR mechanism must be readily available

in enough amounts. As a result, if an in-place shotcrete is to be subjected to damage as

a result of ASR depends on the selection by the concrete supplier of the aggregate

materials and their mineralogical composition as well as the selection of the portland

cement and its chemical composition, the mixture proportions, the incorporation of any

measures in the mixture design to mitigate the potential for damage due to ASR, and the

exposure conditions of the shotcrete in service. The standard of the industry regarding

the production of concrete including, among others, the American Concrete Industry (ACI)

and the American Society for Testing and Materials (ASTM), contains numerous readily

available and generally acceptable guidelines for the selection of materials and their

proportions as well as mitigating measures for the prevention of ASR related damage in

concrete.

Regarding the aggregate, American Concrete Institute (ACI) 506.2-13 Specification for

Shotcrete states the following:

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"2.1.3 Aggregate – Unless otherwise specified, aggregates

shall comply with ASTM C33/C33M for normalweight

aggregates."1

ASTM C33-16, Standard Specification for Concrete Aggregates, the standard applicable at

the time of aggregate purchase and construction of the pool, states the following,

"4.1 The direct purchaser of aggregates shall include the

information in 4.2 in the purchase order as applicable.

4.2.4 When the order is for fine aggregate:

4.2.4.1 Whether the restriction on reactive materials in 7.3

applies"2

Section 7.3 of ASTM C33-16 states the following regarding the requirements for the use

of fine aggregate:

"7.3 Fine aggregate for use in concrete that will be subject

to wetting, extended exposure to humid atmosphere, or

contact with moist ground shall not contain any materials

that deleteriously reactive with the alkalies in the cement in

an amount sufficient to cause excessive expansion of mortar

or concrete, except that if such materials are present in

injurious amounts, use of fine aggregate is not prohibited

when used with a cement containing less than 0.60%

¹ Specification for Shotcrete, American Concrete Institute (ACI) 506.2-13

² ASTM C33-16 Standard Specification for Concrete Aggregates

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4824 Rollingwood Drive **Swimming Pool Assessment** June 8, 2022

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alkalies calculated as sodium oxide equivalent (Na₂O +

0.685K₂O), if there is satisfactory service record evaluation,

or with the addition of a material that has been shown to

prevent harmful expansion due to the alkali-aggregate

reaction."3

It should be noted that ASTM C33 states the same requirements for coarse aggregate as

it does for the fine aggregate.

Based on the information stated in the ACI Specification for Shotcrete and ASTM C33-16

Standard Specification for Concrete Aggregates, it is CA's opinion that the purchaser of

the aggregate, EasyMix, should have specified in their purchase order that the aggregate

would be subject to "wetting, extended exposure to humid atmosphere, or contact with

moist ground"4, as it was known to the EasyMix that the shotcrete would be used for a

swimming pool and request that the aggregate be evaluated with respect to its potential

for ASR as per ASTM C33, Section 7.3. If this information was stated in the purchase order,

as required per ASTM C33, the aggregate supplier would have been required to perform

the appropriate testing to determine if the aggregate contained materials that were

deleteriously reactive. If the aggregate was deemed to be reactive, EasyMix could have

taken the appropriate measures to prevent ASR related damage to the shotcrete in the

swimming pools as previously discussed.

Thus, it is CA's opinion that the ASR mechanism could have been prevented if certain

measures were taken by EasyMix. These measures include any one or a combination of

³ Ibid.

⁴ ASTM C33-16 Standard Specification for Concrete Aggregates

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MATERIALS, CONSTRUCTION, AND

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the following, including the addition of fly ash or supplementary cementitious materials

to the concrete mixture, selection of materials with lesser potential for ASR reaction,

adjusting the materials proportions, and/or having the aggregate supplier test the

material purchased to determine its potential for ASR.

It is CA's opinion that all the shotcrete is susceptible to ASR degradation, as supported by

the systemic manifestation of the distress observed by CA. In service, the shotcrete will

be continuously exposed to moisture because the pool is a water retaining structure, the

plaster coating is not intended to create an impermeable layer preventing moisture from

reaching the shotcrete, and the shotcrete is cast against earth. Thus, it is CA's opinion

that the only remediation for the ASR distressed structure is to remove the shotcrete and

rebuild the pool since the ASR mechanism cannot be stopped due the characteristics of

the materials and the continuous exposure to moisture.

6.0 CONCLUSIONS

1. The cause of the cracking distress in the residential pool at 4824 Rollingwood is an

internal expansion mechanism as a result of ASR as identified through

petrographic examination of shotcrete samples.

2. The petrographic examination clearly identified the presence of chert in the

aggregates which is a well-known ASR reactive component in the aggregates.

3. The purchaser of the reactive aggregate, EasyMix, did not follow ACI or ASTM

standards to ensure that the shotcrete mixture would be adequate for a swimming

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pool application including mitigating the potential for damage as a result of ASR in the shotcrete.

- 4. The shotcrete mixture did not contain fly ash or any other measures which could have mitigated the damage due to the ASR mechanism.
- 5. In this application, the ASR distress mechanism cannot be stopped given that the shotcrete contains the ASR reactive aggregate, and the shotcrete is not protected against the exposure and/or penetration of moisture.
- 6. It is CA's opinion that the only remediation alternative to restore the performance of the residential swimming pool at 4824 Rollingwood is the removal and replacement of the shotcrete and the reconstruction of the swimming pool.

Submitted by:

Ramón L. Carrasovillo, Ph.D., P.E.

President, Carrasquillo Associates

Project Manager

Dulce Maria Trejo, B.S., E.I.T.

Graduate Engineer

List of Appendices

Appendix A: Shotcrete Mix Design, EasyMix Concrete Services, LLC, December 29, 2019

Appendix B: 4824 Rollingwood Drive Petrographic Investigation Pool Spa Bench

Shotcrete prepared by Wiss, Janney, Elstner Associates, Inc., June 3, 2022

Appendix C: ASTM C33-16, Standard Specification for Concrete Aggregates

Twe are happy to provide these as well.