

Living Waters Ranch
P O Box 1190, Challis, ID 83226
lwatersr@custertel.net, 208-879-2729
www.livingwatersranch.org

August 11, 2003

Allen Merritt
IDWR – P O Box 3380
1341 Filmore St., Ste 200
Twin Falls, ID 83301-3380

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Department of Water Resources
Southern Region

Regarding: Water and Sewer Issues

Dear Allen:

Greetings and salutations from Garden Creek Water Shed.

For your information I am sending you this package concerning our water and sewer issues at LWR. The cover letter, Exhibit A, and Water Usage will be helpful in understanding Living Waters Ranch impact on Garden Creek.

Could you pass this on to Jim Stanton and let him know that BLM has verbally indicated that approval of water transmission line will come through in 3 to 4 weeks?

Yours Truly,



Christopher James, Living Waters Ranch

Living Waters Ranch
P O Box 1190, Challis, ID 83226
lwatersr@custertel.net, 208-879-2729
www.livingwatersranch.org

August 8, 2003

William Teuscher PE
Idaho Department of Environmental Quality
900 North Skyline, Suite B
Idaho Falls, ID 83402-1718

Steve Adams
District 7 Health
104 South Daisy
Salmon, ID 83467

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Department of Water Resources
Southern Region

**Regarding: Living Waters Ranch - Septic Systems – Phase 1 and Phase 2
and LWR Water System**

Dear Mr. Teuscher and Mr Adams:

In the last month we have had questions raised by community members, County Commissioners, and Challis City officials. It seems that there are fears and concerns that the water and sewer systems here at LWR could have negative effect on the local water aquifer. A study that was done by the Idaho Water Resources Research Institute, for the City of Challis, raised questions about development on Garden Creek and possible contamination to the city's water.

As you know we have been working closely with you at the Department of Environmental Quality and the District Seven Health Department. You have given us advice that has encouraged us to install systems that go beyond the requirements. You have guided us in developing monitoring systems to assure safe results for our guests, the residents downstream, and the environment.

After our septic and water systems were approved and permitted by you, we have been monitoring the usage on a weekly basis. We have taken water samples of Garden Creek both up and downstream of our property twice a year. We are also monitoring our public water system on a quarterly basis.

There are still two areas that you have asked for that we are still in the process of completing. We need to add meters to our septic systems to measure the flow of effluent that may transfer from Phase 1 Dosing Tank System to Phase 2 Dosing

Tank System. The meters are on order. Also, attached is a letter from our plumbing engineer, Joe Chester who had requested District 7 to upgrade the system, but he hasn't of yet received their approval. Secondly, we need to finalize with you the replacement drain field areas.

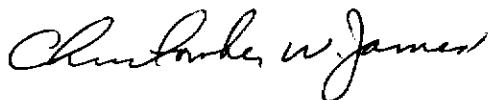
It is our desire to complete all of the requirements that are needed to assure that our systems are up to Idaho standards. After we have completed these changes, we would like to arrange for you to meet with our County Commissioners, Challis City officials, and any interested citizens to answer any questions or concerns they may have. We hope that such a meeting can take place on our property.

For your information I am enclosing a copy of the Challis Messenger article that was written concerning possible contamination of Garden Creek. It was requested that the commissioners assert their authority through their not issuing building permits, thereby imposing a moratorium on any "substantial development" on Garden Creek.

Could you possibly help me to shed real truth on the matter? As you can see I'm sending this letter to the Custer County Commissioners, the City of Challis, and Allen Merritt of the IDWR. Additionally, I am sending an exhibit that challenges the impact of LWR on the Garden Creek Aquifer. Please check my math and logic so that truth comes forth in the proper context.

Again, it is my intention to be a good neighbor. It is LWR's intention to bless the land and our neighbors.

Yours Truly,



Christopher W. James, President of Living Waters Ranch

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Cc: Custer County Commissioners
Challis City Council
Allen Merritt, IDWR, Twin Falls, ID

Enclosures:

Exhibit A. "What Constitutes 'Substantial Development' on Garden Creek"
Challis Messenger - "Commissioners Respond LWR Building Permits"
Challis Messenger - Letter to the Editor
Letter from Joe Chester to Jack Hammond concerning District 7 & OK Septic Change
Water Usage: 2001-2003
Phase I Waste Water Usage 2002-2003
Phase II Waste Water Usage 2002-2003

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EXHIBIT A

What Constitutes "Substantial Development" on Garden Creek?

The City of Challis requested the Idaho Department of Water Resources (IDWR) to study their water system. Their recommendation was to "closely monitor upstream water use in order to assess potential sources of contamination or infringement on the City's water right". The City Council requested that the Custer County Commissioners assert their authority through their building permits and impose a moratorium on any "substantial development" on Garden Creek.

As a result of this request and action LWR was denied building permits for a planned 14 unit motel with 15 toilets and a pavilion with 1 toilet. The planned 14 unit motel had 3 more toilets than earlier submittals for the development of their Phase 2 Septic System. LWR was waiting for data to submit to District 7 Health and DEQ to show that the additions were well within its permitted 2500 gal/day septic system for Phase 2. This was not an additional "substantial development". It was a request for 3 additional toilets to the already permitted properly sized septic system. The waiver from District 7 and DEQ would only come if data proved the system to comfortably handle that amount. They are very diligent to perform their jobs.

Both Phase 1 and Phase 2 septic systems have been working beautifully. Both systems were built with large 12,000 to 15,000 gallon dosing tanks to provide flexibility to the system. This was done above State Standards.

There is a relationship between water use and septic use. Let's look at the impact that LWR has had on Garden Creek.

LWR has approximately 4200 feet of frontage on Garden Creek (GC). If single family homes were built on the Creek, it could be assumed that 21 x 200 foot frontage lots could be developed. How much water would those homes use? Let's say only 1,500 gal/day. That would be 31,500 gal/day if all 21 were developed. LWR is allowed to use 13,000 gal/day and we currently use less than half. Is LWR threatening the aquifer?

In a study that a hydrologist completed in 1999 over the winter of 1998-1999, Garden Creek showed flows of 4.77 CFS to 8.13 CFS from September to January. What percentage is LWR's 6,000 gal/day of that total flow using a lower amount of flow? 5 CFS equals 3,240,000 gal/day (1 CFS = 450 gpm) (5CFS x 450 gpm x 1440 min/day). 6,000 gal/day divided by 3,240,000 gal/day equals 0.0019 or less than 2/10ths of 1%. Much of that water returns to the aquifer through the leach fields. How much of an impact is LWR having on Garden Creek? The answer is very little. From this data a good case can be made that much more development along Garden Creek can be sustained.

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Messenger

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Commissioners rescind two LWR building permits

by Anna Means

The Custer County Commissioners rescinded two building permits submitted by Living Waters Ranch, Inc. (LWR) until the county has documentation that Garden Creek water quality and quantity are protected.

Looking for proof

The commissioners made the decision at their regular meeting July 14. Commissioner Wayne Butts told the *Messenger* he's not trying to pick on LWR, but thinks it's prudent to ask for documentation that will put an end to the rumors. There are people who believe the ranch isn't in compliance with Department of Environmental Quality (DEQ) regulations, and Butts wants to end the debate before allowing more construction at the facility.

Commissioner Cliff Hansen told the *Messenger* the county knew there was a letter coming from the city asking for a moratorium on further development up the creek. He said he felt it was wise to postpone approval of the permits until they had assurance that the city's water quality and quantity weren't in jeopardy.

The action came as a result of two citizens, Don and Bonnie Rowles, asking the city to write a letter to the county commissioners. They suggested the letter could ask for a moratorium on any more development up Garden Creek, which serves as the water source for the city.

The Rowles referred to conclusions drawn from the Idaho Water Resources Research Institute study completed last year. It said water use on Garden Creek could affect the city's water quality and quantity.

The council agreed to write the letter and reminded the Rowles that based on the Institute's recommendations, the city has been monitoring water quality above and below LWR. To date, there's no data to show there's a problem.

On July 14 the Rowles submitted paperwork to the county, which they believed showed that LWR wasn't in compliance with DEQ

requirements. They said because there is no planning and zoning in the county, the one way the commissioners could deal with problems up the creek was to deny building permits.

The commissioners did so at their Monday meeting by rescinding permits issued to LWR by Assessor Chris James. The building permit ordinance (No. 32) doesn't specifically grant the commissioners authority to approve or deny building permits. Butts told the *Messenger* he was under the impression it did, but regardless, feels it was right to ask for verification.

The county leaders said the permits won't be approved until the receive assurances that sanitary requirements are fulfilled and there are no negative impacts to the city.

Quality and quantity

The next day the county received the city's letter. It said that the institute's recommendation was to "closely monitor upstream water use in order to assess potential sources of contamination or infringement on the city's water right."

Due to the absence of county planning and zoning, the city council requested that the commissioners assert their authority through their building permits and impose a moratorium on any "substantial development" on Garden Creek.

Rowles told both the city and the county that according to conversations with and documentation from DEQ, the ranch was out of compliance on their wastewater disposal system.

Agencies

The *Messenger* received copies of the DEQ documentation. The latest letter, dated March 12, 2003, said DEQ wanted flow data on sewer use rather than basing information on bedrooms and bathrooms. This stipulation came as a result of LWR's request for a variance to allow two more bathrooms to the existing wastewater disposal system.

The DEQ wrote that it had received some flow data, but felt there were discrepancies. The letter made note that LWR and its engineering firm had agreed in December 2002 to install more event meters that would better assess the capacity of the existing system.

William Teuscher, water quality engineer with DEQ, told the *Messenger* all of the current facilities existing at the ranch and proposed new facilities for 2004 have been permitted. Steve Adams with District Seven Health told the *Messenger* the same thing.

Teuscher said DEQ is aware LWR wants to build a motel and a pavilion with camp store next year. He said DEQ still wants flow, as well as occupancy data to determine peak daily flow before allowing any

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additional sewage into the current system. To date, they haven't received that information, but he said it was "in the process." He said if LWR wants to develop any more than what's currently planned, they will have to meet Large Soil absorption System criteria, which is for a larger system.

Teuscher said it wasn't accurate to say LWR is out of compliance with DEQ requirements. Even though DEQ hasn't received the flow data, there's no reason to believe LWR engineers, which have always been cooperative, won't produce the information in due time.

Adams said there is a problem with consistent monitoring with all that's been agreed to up at the ranch. He said because of the way it's been developed and regulated, there is an absence of "institutional memory." He'd like to see DEQ and District Seven fund monitoring programs that keep track of and hold facilities to deadlines. He said it's not so much a case of policing, but remembering when certain documentation and reviews are due.

Assurances

Don Rowles told the *Messenger* that based on conversations with DEQ and District Seven Health, he and his wife were given the impression LWR is out of compliance with stipulations. In reviewing correspondence, they saw evidence that flow data was inadequate and LWR was supposed to install flow meters that hadn't yet been done.

Bonnie Rowles told the *Messenger* it wasn't her intent to close Living Water Ranch. "I just want to make sure our [the city's] water quality and quantity are assured. We all need to proceed responsibly," she said.

Christopher James told the *Messenger* he agrees with managed growth. "There's wisdom to that." He said there's no problem with his facility, and they have water tests showing the water is cleaner leaving the ranch than coming into it.

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THE CHALLIS Messenger

Rowles explains water requests

Dear Editor:

The following letter was sent to James Johnson, regional administrator of the Department of Environmental Quality and Steve Adams of District Seven Health:

Idaho Water Resources Research Institute recently completed a preliminary draft on the Hydrogeologic analysis of the water supply for the community of Challis. It stated upstream domestic or agricultural development and use of Garden Creek water will impact the quality and supply of the water that reaches the city diversion. Recommendations were made that the city of Challis should closely monitor upstream water use on Garden Creek in order to assess potential sources of contamination or infringement on their water right. As a property owner in the city of Challis I have concerns in regards to extensive development at Living Waters Ranch located approximately four miles to the West of the City of Challis on Garden Creek.

Recently I contacted Idaho Department of Environmental Quality, District Seven Health Department and the Idaho Department of Water Resources regarding the development of Living Waters Ranch and the proposed expansion for 2003-2004. I also had questions regarding their existing system and requested copies in regards to their proposed expansion and the status of their existing system.

After reviewing all information provided, I questioned why there were discrepancies in flow data, why they were allowed to build over replacement areas? (replacement area for Phase II was not relocated until the recent purchase of the property to the east. Phase I replacement area had been encroached upon by the assembly hall construction.) How could new expansions and variances be approved when existing permits have not been signed off?

With over 65 toilets, over 33 showers, several kitchens, laundry facilities and drinking water fountains, LWR should have been required to meet the Large Soil Absorption System criteria. A site visit by IDEQ and DSHD was done on June 19, 2002, before property to the east was purchased and variances were approved.

I feel my only recourse is to request that IDEQ stop any additional

construction at Living Waters Ranch until the following information is completed.

1. IDEQ and DSHD make an on site visit to inventory the existing facility. Get a current count on the number of existing buildings on Phase I Wastewater Disposal System and the number of buildings on Phase II Wastewater Disposal System.
2. All requirements are met under the LSAS criteria.
3. Any and all required permits on the current infrastructure are signed off by IDEQ and DSHD.

It is not my intent to imply Living Waters Ranch is doing anything illegal or intentionally infringing on the city's water right. I feel they are an asset to the community and have a beautiful facility. As a property owner in the city of Challis, I just want assurance that Idaho Department of Environmental Quality, District Seven Health Department, the City of Challis and the Custer County Commissioners are doing their job to closely monitor upstream water use. It is in everyone's best interest to make sure the correct steps are being taken. If existing systems are in order at Living Waters Ranch then there should not be a problem signing off on current permits.

*Sincerely,
Bonnie Rowles
Challis*

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Chester Plumbing and Heating, Inc.

PO Box 759

Challis ID 83226

Phone/Fax 208-879-4463

December 11, 2002

Jack Hammond

HEDCO

PO Box 1070

Challis ID 83226

Phone 208-879-5333

Fax 208-879-2860

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Department of Water Resources
Southern Region

Subject: DEQ Letter Dated 11/15/02 Re: Living Waters Ranch Wastewater System
Response to DEQ July 24, 2002 Letter

Dear Sir:

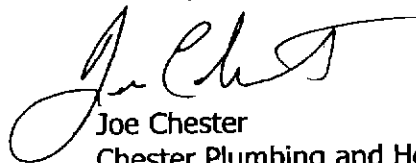
I have the following comments:

- 1b. The pumps that do not have meters transfer effluent from one dose tank to the other. All effluent discharged to the drainfield is recorded by the dual event and time meters already installed at each dose tank.

As requested, Chester Plumbing and Heating will install two additional event and time meters to record the "transfer" of effluent between dose tanks.

Chester Plumbing and Heating has also requested approval by District 7 Health Department to modify the dose tank pump controls so as fluid level rises, transfer of fluid from tank to tank occurs before untimed lag pump operation occurs. During high flows this will result in alternating timed dose discharge to both drainfields before any untimed lag pump discharge occurs. We have submitted forms to District 7 Health Department requesting approval to make the change but have not yet received approval.

Thank you,



Joe Chester

Chester Plumbing and Heating, Inc.

JC/lr

Living Waters Ranch
Well #1 Meter Reading – 2003

Jan 03	8478320 – 8329550 =	148,770 gal
Feb 03	8643160 – 8478320 =	164,840 gal
March 03	8802950 – 8643160 =	159,790 gal
April 03	8957150 – 8802950 =	154,200 gal
May 03	9150310 – 8957150 =	193,160 gal
June 03	9346000 – 9150310 =	195,690 gal
Total		1,016,450 gal

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Living Waters Ranch
Well #1 Meter Readings – 2002

Jan 02	6679710 – 6543330 =	136,380 gal
Feb 02	6791760 – 6679710 =	112,050 gal
March 02	6833480 – 6791760 =	41,720 gal
April 02	7032680 – 6833480 =	199,200 gal
May 02	7191440 – 7032680 =	158,760 gal
June 02	7355470 – 7191440 =	164,030 gal
July 02	7531530 – 7355470 =	176,060 gal
Aug 02	7682910 – 7531530 =	151,380 gal
Sept 02	7837750 – 7682910 =	154,840 gal
Oct 02	7984640 – 7837750 =	146,890 gal
Nov 02	8157060 – 7984640 =	172,420 gal
Dec 02	8329550 – 8157066 =	172,484 gal

Total 1,786,214 gal

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Living Waters Ranch
Well #1 Meter Readings – 2002

Jan 02	6679710 – 6543330 =	136,380 gal
Feb 02	6791760 – 6679710 =	112,050 gal
March 02	6833480 – 6791760 =	41,720 gal
April 02	7032680 – 6833480 =	199,200 gal
May 02	7191440 – 7032680 =	158,760 gal
June 02	7355470 – 7191440 =	164,030 gal
July 02	7531530 – 7355470 =	176,060 gal
Aug 02	7682910 – 7531530 =	151,380 gal
Sept 02	7837750 – 7682910 =	154,840 gal
Oct 02	7984640 – 7837750 =	146,890 gal
Nov 02	8157060 – 7984640 =	172,420 gal
Dec 02	8329550 – 8157066 =	172,484 gal

Total 1,786,214 gal

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Living Waters Ranch
Phase 1 Wastewater System 2003

1/03	Pump #1	22244 - 21617 =	627 min.
	Pump #2	24777 - 24141 =	<u>636 min</u>
	(12/30/02 - 1/27/03) 29 Days		1263 min. @ 41 gpm = 51,783 gal 1,785 gpd
2/03	Pump #1	23056 - 22244 =	812 min
	Pump #2	25610 - 24777 =	<u>833 min</u>
	(1/27 - 2/27) 31 Days		1,645 min. @ 41 gpm = 67,445 gal 2,175 gpd
3/03	Pump #1	23580 - 23056 =	524 min
	Pump #2	26130 - 25610 =	<u>520 min</u>
	(2/27 - 3/28) 30 Days		1,044 min @ 41 gpm = 42,804 gal 1,426 gpd
4/03	Pump #1	24062 - 23580 =	482 min
	Pump #2	26599 - 26130 =	<u>469 min</u>
	(3/28 - 4/28) 32 Days		951 min @ 41 gpm = 38,991 gal 1,218 gpd
5/03	Pump #1	24884 - 24062 =	822 min
	Pump #2	27432 - 26599 =	<u>833 min</u>
	(4/28 - 5/30) 32 Days		1,655 min @ 41 gpm = 67,855 gal 2,120 gpd
6/03	Pump #1	25821 - 24884 =	937 min
	Pump #2	28341 - 27432 =	<u>909 min</u>
	(5/30 - 6/30) 31 Days		1,846 min @ 41 gpm = 75,686 gal 2,441 gpd

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Living Waters Ranch Phase I Sewer System Log

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DATE	INVERT COUNT	ELAPSED TIME METER	HIGH LEVEL ALARM	INIT.	COMMENTS
2003					
1-6	1.001673	0021732			
	2.001708	0024275	000082	W/K,	
1-13	1.001681	0021849			
	2.001715	0024375	000082	W/K,	
1-17	1.001686	0021924			
	2.001720	0024450	000082	W/K,	
1-20	1.001693	0022023			
	2.001728	0024569	000082	W/K,	
1-27	1.001708	0022244			
	2.001742	0024777	000082	W/K	
2-6	1.001720	0022416			
	2.001754	0024956	000082	W/K,	
2-10	1.001727	0022517			
	2.001761	0025066	000082	W/K,	
2-17	1.001740	0022702			
	2.001774	0025253	000082	W/K,	
2-24	1.001761	0023015			
	2.001796	0025580	000082	W/K,	
2-27	1.001764	0023056			
	2.001798	0025610	000082	W/K,	
3-3	1.001773	0023189			
	2.001808	0025759	000082	W/K,	
3-10	1.001786	0023383			
	2.001821	0025952	000082	W/K,	
3-17	1.001792	0023464			
	2.001827	0026032	000082	W/K	
3-24	1.001797	0023535			
	2.001832	0026101	000082	W/K,	
3-28	1.001800	0023580			
	2.001834	0026130	000082	W/K,	
4-1	1.001802	0023609			
	2.001837	0026166	000082	W/K	
4-7	1.001806	0023667			
	2.001840	0026204	000082	W/K,	
4-11	1.001808	0023696			
	2.001843	0026242	000082	W/K,	

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DATE	INVERT COUNTER	ELAPSED TIME METER	HIGH LEVEL ALARM	INIT.	COMMENTS
(2003)	1. 001816	0023816			
4-14	2. 001851	0026361	000082	W/K	
4-21	1. 001823	0023919			
	2. 001857	0026450	000082	W/K	
4-25	1. 001826	0023961			
	2. 001860	0026495	000082	W/K	
4-28	1. 001833	0024062			
	2. 001867	0026599	000082	W/K	
5-2	1. 001837	0024121			
	2. 001872	0026671	000082	W/K	
5-5	1. 001845	0024240			
	2. 001880	0026790	000082	W/K	
5-9	1. 001854	0024367			
	2. 001888	0026909	000082	W/K	
5-12	1. 001856	0024397			
	2. 001891	0026951	000082	W/K	
5-14	1. 001868	0024563			
	2. 001902	0027114	000082	W/K	
5-19	1. 001875	0024667			
	2. 001910	0027224	000082	W/K	
5-23	1. 001879	0024723			
	2. 001913	0027269	000082	W/K	
5-26	1. 001888	0024856			
	2. 001922	0027402	000082	W/K	
5-30	1. 001890	0024884			
	2. 001924	0027432	000082	W/K	
6-2	1. 001892	0024913			
	2. 001937	0027471	000082	W/K	
6-5	1. 001895	0024956			
	2. 001929	0027500	000082	W/K	
6-9	1. 001906	0025116			
	2. 001940	0027663	000082	W/K	
6-16	1. 001917	0025279			
	2. 001952	0027816	000082	W/K	
6-20	1. 001924	0025378			
	2. 001959	0027911	000082	W/K	

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Living Waters Ranch Phase I Sewer System Log

DATE	EVENT COUNTER	ELAPSED TIME METER	HIGH LEVEL ALARM	INIT.	COMMENTS
(2003)	1.001934	0025525			
6-23	1.001968	0028045	000082	WIK	
	1.001945	0025688			
6-27	1.001980	0028222	000082	WIK	
	1.001954	0025821			
6-30	1.001988	0028341	000082	WIK	
	1.001964	0025969			
7-3	1.001998	0028489	000082	WIK	
	1.001971	0026073			
7-7	1.002006	0028602	000082	WIK	
	1.001984	0026265			
7-11	1.002018	0028780	000082	WIK	
	1.001993	0026028			
7-14	1.002039	0028928	000082	WIK	
	1.002000	0026034			
7-16	1.002050	0029017	000082	WIK	
	1.002014	0026708			
7-21	1.002048	0029224	000082	WIK	
	1.002025	0026871			
7-25	1.002059	0029381	000082	WIK	
	1.002032	0026974			
7-28	1.002066	0029484	000082	WIK	
	1.002044	0027152			
7-31	1.002078	0029662	000082	WIK	
	1.002053	0027295			
8-4	1.002087	0029795	000082	WIK	
	1.002059	0027366			
8-7	1.002092	0029869	000082	WIK	
	1				
	1		000082	WIK	
	1				
	1		000082	WIK	
	1				
	1		000082	WIK	
	1				
	1		000082	WIK	

Living Waters Ranch
Phase 1 Wastewater System – 2002

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Southern Region

Jan 02	Pump #1	14600 – 14372 =	228 min
	Pump #2	17136 – 16891 =	<u>245 min</u>
	(1/5 – 2/2) 29 Days		473 min @ 41 gpm = 19,393 gal 668 gpd
Feb 02	Pump #1	14875 – 14600 =	275 min
	Pump #2	17427 – 17136 =	<u>291 min</u>
	(2/2 – 2/28) 26 Days		566 min @ 41 gpm = 23,206 gal 892 gpd
March 02 and April 02	Pump #1	15543 – 14875 =	668 min
	Pump #2	18063 – 17427 =	<u>636 min</u>
	(2/28 – 4/29) 61 Days		1,304 min @ 41 gpm = 53,464 gal 876 gpd
May 02	Pump #1	16310 – 15543 =	767 min
	Pump #2	18799 – 18063 =	<u>736 min</u>
	(4/29 – 5/27) 28 Days		1,503 min. @ 41 gpm = 61,623 gal 2,200 gpd
June 02	Pump #1	17380 – 16310 =	1,070 min
	Pump #2	19881 – 18799 =	<u>1,082 min</u>
	(5/27 – 6/28) 31 Days		2,152 min @ 41 gpm = 88,232 gal 2,846 gpd
July 02	Pump #1	18706 – 17380 =	1,326 min
	Pump #2	21174 – 19881 =	<u>1,293 min</u>
	(6/28 – 7/29) 31 Days		2,619 min @ 41 gpm = 107,379 gal 3,463 gpd
Aug 02	Pump #1	19344 – 18706 =	638 min
	Pump #2	21814 – 21174 =	<u>640 min</u>
	(7/29 – 8/30) 31 Days		1,278 min @ 41gpm = 52,398 gal 1,690 gpd

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Southern Region

Sept. 02	Pump #1	20070 - 19344 =	726 min
	Pump #2	22582 - 21841 =	<u>741 min</u>
	(8/30 - 9/30) 31 Days		1,467 min @ 41 gpm = 60,147 gal 1,940 gpd
Oct 02	Pump #1	20809 - 20070 =	739 min
	Pump #2	23345 - 22582 =	<u>763 min</u>
	(9/30 - 11/1) 33 Days		1,502 min @ 41 gpm = 61,582 gal 1,924 gpd
Nov 02	Pump #1	21343 - 20809 =	534 min
	Pump #2	23862 - 23345 =	<u>517 min</u>
	(11/1 - 11/25) 24 Days		1,051 min @ 41gpm = 43,091 gal 1,795 gpd
Dec 02	Pump #1	21617 - 21343 =	274 min
	Pump #2	24141 - 23862 =	<u>279 min</u>
	(11/25 - 12/30) 35 Days		553 min @ 41gpm = 22,673 gal 647 gpd

142 502 2002

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Department of Water Resources
Southern RegionLiving Waters Ranch
Phase I Sewer System Log

DATE	INVERT COUNTER	ELAPSED TIME METER	HIGH LEVEL ALARM	INIT.	COMMENTS
2002					
1/5	1. 0011154	0014372			
	2. 0011159	0016891	000059	R.B.	
1/21	1. 001177	0014510			
	2. 001169	0017056	000064	RB	
2/21	1. 001183	0014606			
	2. 001175	0017136	000064	RB	
2/19	1. 001226	0015256			
	2. 000170	0000233	000064	RB	
2/26	1. 001200	0014830			
	2. 001191	0014885	000064	RB	
2/28	1. 001195	0017427	000064	RB	
	2. 001211	0014976			
3/1	1. 001203	0017544	000064	RB	
4/8	1. 001234	0015292			
	2. 001224	0017839	000064	WIK	(NEW EMPLOYEE)
4/22	1. 001241	0015394			
	2. 001230	0017928	000064	WIK	
4/26	1. 001242	0015408			
	2. 001231	0017943	000064	WIK	
4/29	1. 001251	0015543			
	2. 001239	0018063	000064	WIK	
5/3	1. 001256	0015678			
	2. 001245	0018151	000064	WIK	
5/6	1. 001264	0015738			
	2. 001253	0018270	000064	WIK	
5/9	1. 001266	0015770			
	2. 001254	0018285	000064	WIK	
5/13	1. 001276	0015970			
	2. 001267	0018478	000064	WIK	
5/16	1. 001283	0016074			
	2. 001272	0018553	000064	WIK	
5/20	1. 001292	0016209			
	2. 001282	0018692	000064	WIK	
5/24	1. 001296	0016265			
	2. 001333	0018758	000084	WIK	

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Department of Water Resources
Southern Region

Living Waters Ranch Phase I Sewer System Log

DATE	EVENT COUNTER	ELAPSED TIME METER	HIGH LEVEL ALARM	INIT.	COMMENTS
2003	1. 001279	0016310			
5/27	2. 001336	0018799	000074	W/K	
	1. 001303	0016369			
6/3	2. 001340	0018853	000082	W/K	
	1. 001304	0016373			
6/7	2. 001342	0018859	000082	W/K	
	1. 001315	0016536			
6/10	2. 001353	0019022	000082	W/K	
	1. 001341	0016907			
6/13	2. 001378	0019394	000082	W/K	
	1. 001356	0017055			
6/21	2. 001338	0019540	000082	W/K	
	1. 001360	0017188			
6/24	2. 001397	0019673	000082	W/K	
	1. 001373	0017380			
6/28	2. 001411	0019881	000082	W/K	
	1. 001382	0017514			
7/1	2. 001419	0019999	000082	W/K	
	1. 001393	0017677			
7/8	2. 001431	0020168	000082	W/K	
~~7/11~~	~~1. 001415~~	~~0018002~~	~~000082~~	~~W/K~~	
~~7/11~~	~~2. 001452~~	~~0020479~~	~~000082~~	~~W/K~~	
7/15	1. 001437	0018328			
7/22	2. 001474	0020805	000082	W/K	
	1. 001452	0018617			
7/26	2. 001488	0021089	000082	W/K	Lot of water run in and pumped out for test - Night before
	1. 001458	0018706			
7/29	2. 001494	0021174	000082	W/K	
	1. 001468	0018854			
8/2	2. 001503	0021307	000082	W/K	
	1. 001475	0018957			
8/5	2. 001511	0021425	000082	W/K	
	1. 001479	0019007			
8/9	2. 001514	0021461	000082	W/K	

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Department of Water Resources
Guthrie Region

2002

Living Waters Ranch Phase I Sewer System Log

DATE	INVENT COUNTER	ELAPSED TIME METER	HIGH LEVEL ALARM	INTT.	COMMENTS
2002					
8/2	1. 001481	0019036			
	2. 001517	0021501	000082	WIK	
8/15	1. 001484	0019081			
	2. 001520	0021537	000082	WIK	
8/19	1. 001493	0019205			
	2. 001528	0021656	000082	WIK	
8/26	1. 001499	0019283			
	2. 001534	0021745	000082	WIK	
8/30	1. 001504	0019344			
	2. 001539	0021814	000082	WIK	
9/2	1. 001507	0019389			
	2. 001543	0021871	000082	WIK	
9/6	1. 001512	0019463			
	2. 001548	0021945	000082	WIK	
9/9	1. 001519	0019561			
	2. 001553	0022019	000082	WIK	
9/13	1. 001525	0019684			
	2. 001562	0022153	000082	WIK	
9/16	1. 001536	0019795			
	2. 001570	0022271	000082	WIK	
9/20	1. 001539	0019827			
	2. 001573	0022316	000082	WIK	
9/23	1. 001545	0019916			
	2. 001579	0022404	000082	WIK	
9/27	1. 001547	0019937			
	2. 001581	0022434	000082	WIK	
9/30	1. 001556	0020070			
	2. 001591	0022582	000082	WIK	
10/4	1. 001566	0020217			
	2. 001600	0022666	000082	WIK	
10/9	1. 001578	0020395			
	2. 001613	0022909	000082	WIK	
10/11	1. 001579	0020409			
	2. 001614	0022916	000082	WIK	
10/14	1. 001586	0020513			
	2. 001621	0023020	000082	WIK	

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Department of Water Resources
Southern District

Living Waters Ranch Phase I Sewer System Log

DATE	EVENT COUNTER	ELAPSED TIME METER	HIGH LEVEL ALARM	INIT.	COMMENTS
2002					
10/18	1. 001594	0020625			
	2. 001628	0023124	000082	WIC	
10/21	1. 001597	0020662			
	2. 001631	0023168	000082	WIC	
10/25	1. 001601	0020711			
	2. 001635	0023228	000082	WIC	
11/1	1. 001608	0020809			
	2. 001643	0023345	000082	WIC	
11/6	1. 001616	0020927			
	2. 001651	0023460	000082	WIC	
11/8	1. 001618	0020957			
	2. 001653	0023481	000082	WIC	
11/11	1. 001621	0021001			
	2. 001655	0023511	000082	WIC	
11/18	1. 001631	0021149			
	2. 001665	0023656	000082	WIC	
11/25	1. 001634	0021343			
	2. 001678	0023862	000082	WIC	
12/2	1. 001649	0021409			
	2. 001684	0023927	000082	WIC	
12/9	1. 001652	0021450			
	2. 001686	0023957	000082	WIC	
12/11	1. 001654	0021480			
	2. 001689	0023992	000082	WIC	
12/20	1. 001660	0021551			
	2. 001694	0024066	000082	WIC	
12/30	1. 001665	0021617			
	2. 001699	0024141	000082	WIC	
	1.				
	2.				
	1.				
	2.				
	1.				
	2.				
	1.				
	2.				

Living Waters Ranch
Phase 2 Wastewater System – 2003

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Department of Water Resources
Southern Region

1/03	Pump #1	19249 - 19060 =	189 min
	Pump #2	2164 - 1974 =	<u>190 min</u>
	(12/30/02 - 1/27/03) 28 Days		379 min @ 40 gpm = 15,160 gal 541 gpd
2/03	Pump #1	19403 - 19249 =	154 min
	Pump #2	2321 - 2164 =	<u>157 min</u>
	(1/27 - 2/27) 31 Days		311 min @ 40 gpm = 12,440 gal 401 gpd
3/03	Pump #1	19521 - 19403 =	118 min
	Pump #2	2440 - 2321 =	<u>119 min</u>
	(2/27 - 3/28) 29 Days		237 min @ 40 gpm = 9,480 gal 326 gpd
4/03	Pump #1	19807 - 19521 =	286 min
	Pump #2	2724 - 2440 =	<u>284 min</u>
	(3/28 - 4/29) 32 Days		570 min @ 40 gpm = 22,800 gal 712 gpd
5/03	Pump #1	20201 - 19807 =	394 min
	Pump #2	3119 - 2724 =	<u>395 min</u>
	(4/29 - 5/30) 31 Days		789 min @ 40 gpm = 31,560 gal 1,018 gpd
6/03	Pump #1	20630 - 20201 =	429 min
	Pump #2	3549 - 3119 =	<u>430 min</u>
	(5/30 - 6/30) 31 Days		859 min @ 40 gpm = 34,360 gal 1,108 gpd

Living Waters Ranch Phase II Sewer System Log

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Department of Water Resources
Southern Region

DATE	INVERT ELEVATION	ELAPSED TIME METER	HIGH LEVEL ALARM	INT.	COMMENTS
(2003)					
1-6	1. 014084	0019085			
	2. 014145	0002000	000044	W.K.	
1-13	1. 014105	0019113			
	2. 014135	0002027	000044	W.K.	
1-17	1. 014124	0019138			
	2. 014154	0002053	000044	W.K.	
1-20	1. 014117	0019195			
	2. 014128	0002112	000044	W.K.	
1-27	1. 014207	0019249			
	2. 014267	0002164	000044	W.K.	
2-6	1. 014235	0019287			
	2. 014296	0002203	000044	W.K.	
2-10	1. 014235	0019327			
	2. 014227	0002244	000044	W.K.	
2-17	1. 014234	0019352			
	2. 014246	0002270	000044	W.K.	
2-24	1. 014302	0019376			
	2. 014364	0002294	000044	W.K.	
2-27	1. 014322	0019403			
	2. 014384	0002321	000044	W.K.	
3-3	1. 014343	0019431			
	2. 014306	0002350	000044	W.K.	
3-10	1. 014362	0019457			
	2. 014325	0002376	000044	W.K.	
3-17	1. 014382	0019483			
	2. 014344	0002401	000044	W.K.	
3-24	1. 014401	0019509			
	2. 014363	0002427	000044	W.K.	
3-28	1. 014410	0019521			
	2. 014373	0002440	000044	W.K.	
4-1	1. 014439	0019560			
	2. 014402	0002479	000044	W.K.	
4-7	1. 014477	0019611			
	2. 014440	0002530	000044	W.K.	
4-11	1. 014496	0019636			
	2. 014459	0002555	000044	W.K.	

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Living Waters Ranch Phase II Sewer System Log

Department of Water Resources
Southern Region

DATE	INVERT ELEVATION	ELAPSED TIME METER	HIGH LEVEL ALARM	INIT.	COMMENTS
(2 003)					
4-14	1. 014511	0019657			
	2. 014873	0002574	000044	WIC	
4-21	1. 014835	0019689			
	2. 014898	0002607	000044	WIC	
4-25	1. 014835	0019689			
	2. 014898	0002607	000044	WIC	
4-28	1. 014823	0019807			
	2. 014885	0002724	000044	WIC	
5-2	1. 014642	0019833			
	2. 014805	0002750	000044	WIC	
5-5	1. 014921	0079926			
	2. 014874	0002843	000044	WIC	
5-9	1. 014781	0020018			
	2. 014844	0002937	000044	WIC	
5-12	1. 014820	0020044			
	2. 014863	0002963	000044	WIC	
5-14	1. 014834	0020090			
	2. 014897	0003008	000044	WIC	
5-19	1. 014878	0020148			
	2. 014840	0003066	000044	WIC	
5-23	1. 014896	0020172			
	2. 014858	0003090	000044	WIC	
5-26	1. 014918	0020201			
	2. 014830X	0003119	000044	WIC	
5-30	1. 014918	0020201			
	2. 014886	0003119	000044	WIC	
6-2	1. 014938	0020228			
	2. 0148301	0003146	000044	WIC	
6-5	1. 014938	0020228			
	2. 0148301	0003146	000044	WIC	
6-9	1. 015058	0020389			
	2. 014821	0003308	000044	WIC	
6-16	1. 015152	0020515			
	2. 0148515	0003434	000044	WIC	
6-20	1. 015152	0020515			
	2. 0148515	0003434	000044	WIC	

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Department of Water Resources
Southern Region

Living Waters Ranch Phase II Sewer System Log

(2023)

DATE	EVENT COUNTER	ELAPSED TIME METER	HIGH LEVEL ALARM	INIT.	COMMENTS
	1. 015171	0020541			
6-23	2. 002535	0003460	000044	WIK	
	1. 015195	0020573			
6-27	2. 002559	0003493	000044	WIK	
	1. 015238	0020630			
6-30	2. 002601	0003549	000044	WIK	
	1. 015262	0020662			
7-3	2. 002626	0003582	000044	WIK	
	1. 015289	0020699			
7-7	2. 002652	0003617	000044	WIK	
	1. 015310	0020726			
7-11	2. 002672	0003644	000044	WIK	
	1. 015329	0020691			
7-14	2. 0020751	0003669	000044	WIK	
	1. 015329	0020691			
7-16	2. 0020751	0003669	000044	WIK	
	1. 015384	0020824			
7-21	2. 0023445	0003742	000044	WIK	
	1. 015401	0020846			
7-25	2. 002362	0003764	000044	WIK	
	1. 015442	0020900			
7-28	2. 002803	0003819	000044	WIK	
	1. 015474	0020943			
7-31	2. 002835	0003864	000044	WIK	
	1. 015492	0020967			
8-4	2. 002853	0003887	000044	WIK	
	1. 015492	0020967			
8-7	2. 002853	0003887	000044	WIK	
	1.				
	2.		000044	WIK	
	1.				
	2.		000044	WIK	
	1.				
	2.		000044	WIK	
	1.				
	2.		000044	WIK	

Living Waters Ranch
Phase 2 Wastewater System – 2002

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Southern Region

Jan 02	Pump #1	15055 – 14910 =	145 min
	Pump #2	233 – 233 =	<u>0 min</u>
	(1/5 – 2/2) 28 Days		145 min @ 40 gpm = 5,800 gal 207 gpd
Feb 02	Pump #1	15379 – 15055 =	324 min
	Pump #2	233 – 233 =	<u>0 min</u>
	(2/2 – 2/28) 26 Days		324 min @ 40 gpm = 12,960 gal 498 gpd
March 02	Pump #1	15978 – 15379 =	599 min
And	Pump #2	233 – 233 =	<u>0 min</u>
April 02	(2/28 – 4/29) 60 Days		599 min @ 40 gpm = 23,960 gal 399 gpd
May 02	Pump #1	16496 – 15978 =	518 min
	Pump #2	234 – 233 =	<u>1 min</u>
	(4/29 – 5/27) 28 Days		519 min @ 40 gpm = 20,760 gal 741 gal
June 02	Pump #1	17348 – 16496 =	852 min
	Pump #2	260 – 233 =	<u>27 min</u>
	(5/27 – 6/28) 32 Days		879 min @ 40 gpm = 35,160 gal 1,098 gpd
July 02	Pump #1	17789 – 17348 =	441 min
	Pump #2	700 – 260 =	<u>440 min</u>
	(6/28 – 7/29) 31 Days		881 min @ 40 gpm = 35,240 gal 1,136 gpd
Aug 02	Pump #1	17945 – 17789 =	156 min
	Pump #2	857 – 700 =	<u>157 min</u>
	(7/29 – 8/30) 32 Days		313 min @ 40 gpm = 12,520 gal 391 gpd

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Sept 02	Pump #1	18355 - 17945 =	410 min
	Pump #2	1268 - 857 =	<u>411 min</u>
	(8/30 - 9/30) 31 Days		821 min @ 40 gpm = 32,840 gal 1,059 gpd
Oct 02	Pump #1	18699 - 18355 =	344 min
	Pump #2	1612 - 1268 =	<u>344 min</u>
	(9/30 - 11/1) 31 Days		688 min @ 40 gpm = 27,520 gal 887 gpd
Nov 02	Pump #1	18982 - 18699 =	283 min
	Pump #2	1897 - 1612 =	<u>285 min</u>
	(11/1 - 11/25) 24 Days		568 min @ 40 gpm = 22,720 gal 946 gpd
Dec 02	Pump #1	19060 - 18982 =	78 min
	Pump #2	1974 - 1897 =	<u>77 min</u>
	(11/25 - 12/30) 35 Days		155 min @ 40 gpm = 6,200 gal 40 gpd

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Department of Water Resources
Southern RegionLiving Waters Ranch
Phase II Sewer System Log

DATE	EVENT COUNTER	ELAPSED TIME METER	HIGH LEVEL ALARM	INIT.	COMMENTS
2002					
1/5	1 011017	0014910			
	2 000170	0000233	000041	RB	
1/21	1 011056	0014926			
	2 000170	0000233	000041	RB	
2/10	1 011126	0015055			
	2 000170	0000233	000041	RB	
2/19	1 001197	0014794			
	2 001198	0017323	000041	RB	
2/26	1 011316	0015310			
	2 000170	0000233	000041	RB	
2/28	1 011317	0015379			
	2 000170	0000233	000041	RB	
3/11	1 011407	0015432			
	2 000170	0000233	000041	RB	
4/18	1 001520	0015680			
	2 000170	0000233	000041	WIK	
4/22	1 011636	0015738			
	2 000170	0000233	000041	WIK	
4/26	1 011639	0015742			
	2 000170	0000233	000041	WIK	
4/29	1 001814	0015978			
	2 000170	0000233	000041	WIK	
5/3	1 011814	0015978			
	2 000170	0000233	000041	WIK	
5/16	1 011930	0016201			
	2 000170	0000233	000041	WIK	
5/19	1 011985	0016208			
	2 000170	0000233	000041	WIK	
5/23	1 012072	0016324			
	2 000170	0000233	000041	WIK	
5/25	1 012146	0016424			
	2 000170	0000233	000041	WIK	
5/28	1 012146	0016424			
	2 000170	0000233	000041	WIK	
5/29	1 012200	0016496			
	2 000177	0000234	000044	WIK	

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Department of Water Resources
Southern RegionLiving Waters Ranch
Phase II Sewer System Log

DATE	INVENT COUNTER	ELAPSED TIME METER	HIGH LEVEL ALARM	INIT.	COMMENTS
2002					
5/27	1. 012200	0016496			
	2. 0022127	0000234	000044	WIK	
	1. 012240	0016550			
6/3	2. 0022177	0000234	000044	WIK	
	1. 012280	0016603			
6/7	2. 0022177	0000234	000044	WIK	
	1. 012450	0076831			
6/11	2. 0022177	0000234	000044	WIK	
	1. 012786	0017283			
6/18	2. 0022177	0000234	000044	WIK	
	1. 012818	0017323			
6/21	2. 0022179	0000235	000044	WIK	
	1. 012818	0017323			
6/24	2. 0022179	0000235	000044	WIK	
	1. 012873	000198			
6/28	2. 0022179	0000260	000044	WIK	
7/1	1. 012872	0017395			
	2. 000233	0000307	000044	WIK	
	1. 012989	0017418			
7/8	2. 000250	0000329	000044	WIK	
7/15	1. 012928	0017469			
	2. 000289	0000381	000044	WIK	
7/22	1. 013028	0017602			
	2. 000389	0000515	000044	WIK	
7/26	1. 013052	0017634			water ~~dumped~~ dumped
	2. 000412	0000546	000044	WIK	
7/29	1. 013143	0017789			water dumped in and pumps checked Night before
	2. 000503	0000700	000044	WIK	
8/2	1. 013174	0017857			
	2. 000556	0000771	000044	WIK	
8/5	1. 013217	0017887			
	2. 000578	0000801	000044	WIK	
8/9	1. 013217	0017887			
	2. 000578	0000801	000044	WIK	

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Southern Region

Living Waters Ranch Phase II Sewer System Log

DATE	EVENT COUNTER	ELAPSED TIME METER	HIGH LEVEL ALARM	INIT.	COMMENTS
8/12	1. 013217	0017887			
	2. 000578	0000801	000044	W/K,	
8/15	1. 013217	0017887			
	2. 000578	0000801	000044	W/K,	
8/17	1. 013217	0017887			
	2. 000578	0000801	000044	W/K,	
8/26	1. 013217	0017887			
	2. 000578	0000801	000044	W/K,	
8/30	1. 0013234	0017945			
	2. 000594	0000857	000044	W/K,	
9/2	1. 013347	0018097			
	2. 000707	0001009	000044	W/K,	
9/1	1. 013347	0018097			
	2. 000707	0001009	000044	W/K,	
9/9	1. 013365	0018121			
	2. 000724	0001032	000044	W/K,	
9/13	1. 013384	0018146			
	2. 000744	0001059	000044	W/K,	
9/16	1. 013405	0018174			
	2. 000764	0001086	000044	W/K,	
9/20	1. 013425	0018174			
	2. 000764	0001086	000044	W/K,	
9/23	1. 013474	0018267			
	2. 000834	0001180	000044	W/K,	
9/27	1. 013492	0018291			
	2. 000851	0001203	000044	W/K,	
9/30	1. 013540	0018355			
	2. 000849	0001268	000044	W/K,	
10/4	1. 013557	0018378			
	2. 000917	0001291	000044	W/K,	
10/7	1. 013548	0018433			
	2. 000958	0001346	000044	W/K,	
10/11	1. 013619	0018462			
	2. 000979	0001374	000044	W/K,	
10/14	1. 013697	0018566			
	2. 001057	0001479	000044	W/K,	

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Living Waters Ranch Phase I Sewer System Log

DATE	EVENT NUMBER	ELAPSED TIME METER	HIGH LEVEL ALARM	INIT.	COMMENTS
2002					
10/18	1. 013703	0018574			
	2. 021063	0001487	000044	W/K	
10/21	1. 013759	0018649			
	2. 021119	0001563	000044	W/K	
10/25	1. 013776	0018672			
	2. 021137	0001587	000044	W/K	
11/1	1. 013796	0018699			
	2. 021156	0001612	000044	W/K	
11/4	1. 013841	0018759			
	2. 021201	0001673	000044	W/K	
11/8	1. 013856	0018779			
	2. 021316	0001693	000044	W/K	
11/11	1. 013899	0018837			
	2. 021259	0001751	000044	W/K	
11/18	1. 013939	0018958			
	2. 021350	0001873	000044	W/K	
11/25	1. 014007	0018982			
	2. 021368	0001897	000044	W/K	
12/2	1. 014026	0019007			
	2. 021386	0001921	000044	W/K	
12/9	1. 014044	0019031			
	2. 021404	0001945	000044	W/K	
12/16	1. 014047	0019036			
	2. 021407	0001949	000044	W/K	
12/23	1. 014065	0019060			
	2. 021425	0001972	000044	W/K	
12/30	1. 014065	0019060			
	2. 021425	0001974	000044	W/K	
	1.				
	2.				
	1.				
	2.				
	1.				
	2.				
	1.				
	2.				