

2018 SOURCE WATER ASSESSMENT

Hot Springs Village Water - PWS ID - 208



Completed by
Arkansas Department of Health
Engineering Section
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1. Introduction

A Vulnerability Assessment was recently completed for the source water(s) utilized by Hot Springs Village Water. This report contains information related to the use of this Vulnerability Assessment for your public water system (PWS) and its customers.

The completion of the 2002 Vulnerability Assessment fulfilled the source water assessment requirements of the Safe Drinking Water Act (SDWA) Amendments of 1996. Under Section 1453 of the SDWA Amendments, each State shall develop, “a source water assessment program within the State's boundaries,” to be administered, “for the protection and benefit of public water systems and for the support of monitoring flexibility.” This 2018 assessment supercedes the 2002 version.

This assessment provides another means to enhance the Arkansas Department of Health's (ADH's) continuing efforts to protect public drinking water supply sources under the State's Source Water Protection Program (SWPP). Under the SWPP education and technical assistance are used as an integrated approach to source water protection. The ADH was assisted in this project by the U.S. Geological Survey's Lower Mississippi-Gulf Water Science Center, the University of Arkansas' Center for Advanced Spatial Technology, and Arkansas Water Resources Center.

2. Vulnerability Assessment

(The following is a general description of the assessment process. If more detailed information on the development of the EPA approved Source Water Assessment Plan is needed, it can be found online at <http://www.healthy.arkansas.gov/images/uploads/pdf/drinking-water-ArkSWAP.pdf> or by contacting the ADH.)

Arkansas Source Water Assessment Plan (SWAP) established a methodology to perform Vulnerability Assessments in an effort to provide information or data to water systems and their customers. A susceptibility analysis of each source was conducted, and this information was combined with an inventory of Potential Sources of Contamination (PSOCs) in the assessment area to complete the Vulnerability Assessment. This report is a summary of all data, maps, and the susceptibility analysis for each source in your water system.

2.1 Source Location and Assessment Area Delineation

The first two steps in the Vulnerability Assessment were location of the water sources and the delineation of assessment areas. Well delineation methods used were approved by the EPA for the Arkansas Wellhead Protection Program (AWHPP). Other delineation methods were approved to meet specific assessment conditions to enable systems to establish protection programs specific to their source(s), customer needs, or other concerns.

The Hot Springs Village Water system utilizes 2 drinking water source(s): Middle Fork Saline River - 208101 and Lake Lago - 208102. The assessment area delineation was completed using the following method(s): arbitrary fixed buffer and arbitrary fixed buffer, respectively. A detailed description of delineation method(s) can be found in the appendices portion of this document.

2.2 Susceptibility Analysis

The susceptibility analysis evaluated how easily each of the PWSs sources of drinking water could be affected by a contaminant at concentrations that may pose a public health concern. To complete the susceptibility analysis, the intrinsic sensitivity of each source of drinking water was determined. The natural characteristics of the delineated assessment area for each source were analyzed to measure intrinsic sensitivity. Potential barriers to contaminant transport were evaluated. In addition to the intrinsic sensitivity, historical water quality conditions and monitoring data were assessed.

The intrinsic sensitivity values used in conjunction with the historical water quality conditions and monitoring data were used to determine a designation of high, medium, or low susceptibility and were assigned to each source of the PWS. The designation means the drinking water source has a high/medium/low susceptibility to contamination, if or when contaminants are present. **Please note that this rating is not an absolute measurement.** The rating of high susceptibility for a source does not mean contamination is assured, nor does a low rating mean contamination will not occur. A source with a high susceptibility ranking has been determined to have a higher sensitivity to contaminant transport than a source with a low or medium ranking.

Table 1 shows a summary of the susceptibility findings. Data used in the susceptibility analysis are given in Appendix B. Hot Springs Village Water was found to have 2 source(s): Middle Fork Saline River - 208101 with a High susceptibility rating; and Lake Lago - 208102 with a Medium susceptibility rating.

2.3 PSOC Identification and Categorization

Within a delineated assessment area, PSOCs were identified and assigned a health risk category. The health risk category takes into account the relative public health significance. PSOCs were ranked by health risk categories 1 through 10, (1 representing the highest risk). PSOCs located outside the delineated assessment area may be considered in the overall Vulnerability Assessment report at the discretion of ADH.

Section 3.2 contains table(s) that list the number of PSOCs in the assessment area relative to their distance from the source. Appendix C contains a list of all the PSOCs. If a large number of PSOCs are present in the assessment area of a source, the system should consider developing a protection plan focused on reducing PSOC impact to mitigate the potential for source water contamination.

ADH maintains an extensive digital database of PSOCs within the State of Arkansas. These data were collected through a variety of sources and techniques including: field collection performed by ADH staff and contracted partners, ADH Source Water Protection Program's permit review process, ADEQ's Permit Data System, and a variety of other sources. For more information about PSOC data and how to access it please contact ADH Source Water Protection Program staff (Table 5).

3. Maps and Tables

3.1 Maps

One (1) map per water source or two (2) maps per surface water source with a basin are attached at the end of this report. One (1) map will show the well or intake location, assessment area, and PSOCs (excluding individual sewage disposal systems and domestic/agricultural wells). A second map for surface water sources will show the intake location, assessment area, and drainage basin. The health risk category group for each PSOC is indicated by the symbol on the maps. The health risk category takes into account the relative risk of a particular PSOC to public health. There are 10 health risk code categories with **1 being the most significant and 10 the least significant**.

3.2 Tables

Table 1 summarizes the susceptibility of the Hot Springs Village Water drinking water source(s) to contamination. The susceptibility analysis designates each source as high, medium, or low. Please note these ratings are not absolute measurements. The designation means the drinking water source has a high/medium/low susceptibility to contamination, if or when contaminants are present in the assessment area.

Table 1: Susceptibility Analysis:

Hot Springs Village Water PWS ID - 208

PWS Source	High	Medium	Low
Middle Fork Saline River - 208101	X		
Lake Lago - 208102		X	

Table 2 lists the number of PSOCs identified within the assessment area of Middle Fork Saline River relative to the distance from the source. The potential risk posed by the PSOC is ranked by Health Risk Categories 1 through 10, ("1" representing the highest risk). PSOCs appearing in the upper left corner pose the greatest potential risk to Middle Fork Saline River. PSOCs appearing in the lower right corner pose the lowest potential risk. Appendix C lists each PSOC by zone.

Table 2: Vulnerability Assessment:

Hot Springs Village Water - Middle Fork Saline River - 208101

PSOC Health Risk Category ¹	Middle Fork Saline River					Total
	0-1mi	1-2mi	2-5mi	5-10mi	10-20mi	
1				1		1
2		40	69	38		147
3			5	9		14
4				1		1
5	1	8	58	44		111
6				5		5
7			1	2		3
8				1		1
9	6	33	117	300		456
10	1	1	1			3
Total	8	82	251	401	0	742

¹For more information about what types of PSOCs are included in each health risk category, see the "Contaminant Inventory Methods" section of the SWAP online at: <http://www.healthy.arkansas.gov/images/uploads/pdf/drinking-water-ArkSWAP.pdf>.

Table 3 lists the number of PSOCs identified within the assessment area of Lake Lago relative to the distance from the source. The potential risk posed by the PSOC is ranked by Health Risk Categories 1 through 10, ("1" representing the highest risk). PSOCs appearing in the upper left corner pose the greatest potential risk to Lake Lago. PSOCs appearing in the lower right corner pose the lowest potential risk. Appendix C lists each PSOC by zone.

Table 3: Vulnerability Assessment:
Hot Springs Village Water - Lake Lago - 208102

PSOC Health Risk Category ¹	Lake Lago					Total
	0-1mi	1-2mi	2-3mi	3-4mi	4-5mi	
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
Total	0	0	0	0	0	0

¹For more information about what types of PSOCs are included in each health risk category, see the "Contaminant Inventory Methods" section of the SWAP online at: <http://www.healthy.arkansas.gov/images/uploads/pdf/drinking-water-ArkSWAP.pdf>.

4. Using the ADH Assessment as a Planning Tool

4.1 Local Community Awareness and Involvement

This document is to be used as a management tool by public water systems to enhance the protection of their drinking water sources. The information provided to public water systems and their customers enables them to develop and implement protection activities. Such activities can help to ensure a continued safe drinking water supply and, in some cases, limit capital expenditures for treatment.

The PWS should send its customers a Notice of Report Availability upon receipt of the Source Water Assessment Report. Appendix D of the report contains an example. Include a notice of completion, the corresponding date of completion, and a brief summary of a system's Source Water Assessment in the next Consumer Confidence Report as required by the SDWA.

4.2 Developing a Source Water Protection Plan

This Vulnerability Assessment is to be used as a basis to handcraft a source water protection plan. The ADH provides technical assistance to public water systems in developing an improved local source water protection program. This assistance will be available upon request. For Source Water Protection Program staff contact information see Section 5.

The key to success for any source water protection program is the involvement of the community, customers, and the governing board at the local level. Each local plan may be customized to both the actual and potential hazards of a given source water assessment area. Such a plan may be enacted by local source water protection teams. These teams can assist in gathering information for public education, developing contingency and emergency plans, as well as other local options for reducing the threat of drinking water source contamination. For more information and resources about developing a source water protection program please visit the Source Water Collaborative's website at <https://sourcewatercollaborative.org>, EPA's Source Water Protection website at <https://www.epa.gov/sourcewaterprotection>, or contact your ADH Source Water Protection Program staff.

5. How To Obtain Additional Source Water Assessment Information

The ADH utilized many different data sources to complete the source water assessments. Some of these data can be useful for completion of source water protection plans. Below is a list of ADH Source Water Protection Program staff that can provide assessment data and technical assistance for protection plan development.

Table 4: ADH Source Water Protection Program Staff

<i>Name</i>	<i>Phone Number</i>	<i>Email</i>
*Richard Norwood, Env. Health Specialist	501-661-2067	richard.norwood@arkansas.gov
Benjamin Gilley, GIS Supervisor	501-661-2623	benjamin.gilley@arkansas.gov
Tyler Couch, Env. Health Specialist	501-280-4428	tyler.couch@arkansas.gov
Darcia Routh, P.G.	501-661-2856	darcia.routh@arkansas.gov
Evelyn Kort, P.G.	501-661-2890	evelyn.kort@arkansas.gov
Lyle Godfrey, P.E.	501-661-2623	lyle.godfrey@arkansas.gov

Information about your public water system is also available from the local operator. A complete list of contacts for each system in the state is available online at <http://www.healthy.arkansas.gov/eng/autoupdates/pwslst0.htm> or by contacting ADH SWPP Staff.

Appendices

A. Definitions and Acronyms

Assessment Area: A delineated area around the intake or wellhead of a public water system that establishes the general boundary for the Vulnerability Assessment. Determined by AWHPP methods or other approved site specific methods.

AWHPP: Arkansas Well Head Protection Program. A state program developed to help protect and manage the states groundwater resources. Four methods are approved to be used to delineate the Well Head Protection Area (WHPA) under the AWHPP:

1. Arbitrary Fixed Radius - an area of arbitrary radius around a well, usually 0.25-mile, unless otherwise determined by hydrogeologic data.
2. Volumetric - a modified formula of the volume of a cylinder based on well discharge, time of travel, and aquifer characteristics.
3. Mathematical Flow Equation - the Theis Non-Equilibrium Equation or other applicable flow equation used to determine the WHPA.
4. Hydrogeologic Mapping and Hydrologic Budget - the drainage basin determined by the hydrologic budget, topographic maps, and geologic maps.

Ground Water: Naturally occurring water occupying the zone of saturation in the ground below the surface of the earth.

GWUDI: Ground Water Under the Direct Influence of Surface Water. Water beneath the surface of the ground with one of the following characteristics:

1. Significant occurrences of insects or other macro-organisms, including algae and large diameter pathogens such as Giardia-lambliia.
2. Significant and relatively rapid shifts in water characteristics such as turbidity, temperature, conductivity, or pH which closely correlate to climatological or surface water conditions.

Health Risk Category: Ranking of identified potential sources of contamination that takes into account the relative public health significance. Each potential source of contamination is ranked by Health Risk Categories 1 through 10, (1 representing the highest risk).

Intrinsic Sensitivity: A measure of the potential barriers to contaminant transport including land use/land cover, hydrologic, and geologic/hydrogeologic conditions. Well construction will also be considered where applicable.

PSOC: Potential Sources of Contamination. Sources of contaminants that have the potential to adversely affect the quality of a drinking water supply.

PWS: Public Water System. A system for the provision to the public of water for human consumption through pipes or other constructed conveyances, if such system has at least fifteen service connections or regularly serves at least twenty-five individuals.

SDWA: Safe Drinking Water Act. Federal law that protects public drinking water supplies throughout the nation. Under the SDWA, EPA sets standards for drinking water quality and with its partners implements various technical and financial programs to ensure drinking water safety.

SWPP: Source Water Protection Program. The State's mechanism to implement the Safe Drinking Water Act, and integrate education and technical assistance for public water supplies. The Arkansas Department of Health's Engineering Section is primarily responsible for the implementation of the SWPP, and all rules and regulations promulgated by EPA that deal with drinking water.

Source Water: The body of water, either surface water or ground water that a PWS utilizes as a raw water supply for drinking water. Examples include impoundments, rivers, and underground aquifers.

Surface Water: Water that flows over or rests upon the surface of the earth. The term surface water includes rivers, lakes, impoundments, reservoirs, and springs in addition to other man-made and naturally occurring bodies of water on the surface of the earth.

Susceptibility Analysis: A determination of how easily each of the PWSs sources of drinking water can be affected by contaminants. It is calculated from the intrinsic sensitivity in addition to historic water quality and monitoring data to give each source a low, medium, or high rating.

Vulnerability Assessment: A multi-step process to summarize the potential for contamination of individual sources of waters at public water systems. This assessment consists of source location, delineation of source water assessment areas, identification of potential sources of contamination, and a susceptibility analysis.

B. Selected Data for Drinking Water Sources

Hot Springs Village Water - MIDDLE FORK SALINE RIVER - 208101

Surface Water Data

Streamflow Regulating Structure	Yes
Maximum Pumping Capacity - Intake (gallons/minute)	3000.0
Median Streamflow (cubic feet/second)	95.0

Assessment area data

Main Channel Average Slope (%)	1.01 - 1.75
Main Channel Slope Weight	4.0
Average Annual Precipitation (inches/year)	53-61
Historical Water Quality	Exceedance of Giardia Lamblia or Cryptosporidium action level
Percentage with Forested Land Use	89.2
Percentage with Pasture/Grassland Land Use	3.12
Percentage with Cropland Land Use	0.26
Percentage with Residential Land Use	7.22
Percentage with Commercial/Industrial Land Use	0.11
Percentage with Water/Bare Earth Land Use	0.09

Hot Springs Village Water - LAKE LAGO - 208102

Surface Water Data

Maximum Pumping Capacity - Intake (gallons/minute)	3400.0
Impoundment Volume (acre-feet)	3900.0
Controlled Discharge	No

Assessment area data

Main Channel Average Slope (%)	>1.75
Main Channel Slope Weight	5.0
Average Annual Precipitation (inches/year)	53-61
Historical Water Quality	Exceedance of Giardia Lamblia or Cryptosporidium action level
Percentage with Forested Land Use	65.68
Percentage with Pasture/Grassland Land Use	0.09
Percentage with Residential Land Use	14.72
Percentage with Commercial/Industrial Land Use	0.33
Percentage with Water/Bare Earth Land Use	19.18

C. List of PSOCs in each Zone by Source

The following is a list of the PSOCs in the assessment area of the Hot Springs Village Water. For each PSOC the health risk category is given along with a brief description, the approximate distance of the PSOC from the source, and a reference number. The list is displayed for each distance zone from the source. The list begins with a description of PSOCs in zone 1, the closest zone to the source. Lists for each successive distant zone follows the list for zone 1. For a list of contaminants that may be found at particular PSOCs, see Appendix C "Sources of Contaminants Commonly Found in Watersheds or Recharge Zones" in the SWAP online at: <http://www.healthy.arkansas.gov/images/uploads/pdf/drinking-water-ArkSWAP.pdf>

LIST OF PSOCs BY ZONE

Hot Springs Village Water Middle Fork Saline River - 208101

Susceptibility Rating - High

Middle Fork Saline River Zone 4			
Health Risk Category	PSOC Description	Distance from Intake	Reference Number
1	ADEQ Leaking Storage Tank of Unknown Type	5.06	26000128

Middle Fork Saline River Zone 2			
Health Risk Category	PSOC Description	Distance from Intake	Reference Number
2	PIPELINE: Crude Oil	1.99	60-2528
2	PIPELINE: Crude Oil	1.95	60-2529
2	PIPELINE: Crude Oil	1.91	60-2530
2	PIPELINE: Crude Oil	1.87	60-2531
2	PIPELINE: Crude Oil	1.84	60-2532
2	PIPELINE: Crude Oil	1.81	60-2533
2	PIPELINE: Crude Oil	1.78	60-2534
2	PIPELINE: Crude Oil	1.76	60-2535
2	PIPELINE: Crude Oil	1.74	60-2536

2	PIPELINE: Crude Oil	1.71	60-2537
2	PIPELINE: Crude Oil	1.69	60-2538
2	PIPELINE: Crude Oil	1.66	60-2539
2	PIPELINE: Crude Oil	1.64	60-2540
2	PIPELINE: Crude Oil	1.62	60-2541
2	PIPELINE: Crude Oil	1.61	60-2542
2	PIPELINE: Crude Oil	1.59	60-2543
2	PIPELINE: Crude Oil	1.58	60-2544
2	PIPELINE: Crude Oil	1.57	60-2545
2	PIPELINE: Crude Oil	1.56	60-2546
2	PIPELINE: Crude Oil	1.56	60-2547
2	PIPELINE: Crude Oil	1.56	60-2548
2	PIPELINE: Crude Oil	1.56	60-2549
2	PIPELINE: Crude Oil	1.56	60-2550
2	PIPELINE: Crude Oil	1.56	60-2551
2	PIPELINE: Crude Oil	1.57	60-2552
2	PIPELINE: Crude Oil	1.58	60-2553
2	PIPELINE: Crude Oil	1.59	60-2554
2	PIPELINE: Crude Oil	1.61	60-2555
2	PIPELINE: Crude Oil	1.63	60-2556
2	PIPELINE: Crude Oil	1.64	60-2557
2	PIPELINE: Crude Oil	1.67	60-2558

2	PIPELINE: Crude Oil	1.69	60-2559
2	PIPELINE: Crude Oil	1.72	60-2560
2	PIPELINE: Crude Oil	1.75	60-2561
2	PIPELINE: Crude Oil	1.78	60-2562
2	PIPELINE: Crude Oil	1.82	60-2563
2	PIPELINE: Crude Oil	1.86	60-2564
2	PIPELINE: Crude Oil	1.9	60-2565
2	PIPELINE: Crude Oil	1.93	60-2566
2	PIPELINE: Crude Oil	1.97	60-2567

Middle Fork Saline River Zone 3			
Health Risk Category	PSOC Description	Distance from Intake	Reference Number
2	Bridge: State Highway	4.91	3-1291
2	PIPELINE: Crude Oil	4.97	60-2470
2	PIPELINE: Crude Oil	4.92	60-2471
2	PIPELINE: Crude Oil	4.88	60-2472
2	PIPELINE: Crude Oil	4.84	60-2473
2	PIPELINE: Crude Oil	4.79	60-2474
2	PIPELINE: Crude Oil	4.75	60-2475
2	PIPELINE: Crude Oil	4.71	60-2476
2	PIPELINE: Crude Oil	4.67	60-2477
2	PIPELINE: Crude Oil	4.62	60-2478
2	PIPELINE: Crude Oil	4.57	60-2479

2	PIPELINE: Crude Oil	4.52	60-2480
2	PIPELINE: Crude Oil	4.47	60-2481
2	PIPELINE: Crude Oil	4.41	60-2482
2	PIPELINE: Crude Oil	4.36	60-2483
2	PIPELINE: Crude Oil	4.31	60-2484
2	PIPELINE: Crude Oil	4.26	60-2485
2	PIPELINE: Crude Oil	4.21	60-2486
2	PIPELINE: Crude Oil	4.16	60-2487
2	PIPELINE: Crude Oil	4.11	60-2488
2	PIPELINE: Crude Oil	4.05	60-2489
2	PIPELINE: Crude Oil	3.99	60-2490
2	PIPELINE: Crude Oil	3.93	60-2491
2	PIPELINE: Crude Oil	3.87	60-2492
2	PIPELINE: Crude Oil	3.81	60-2493
2	PIPELINE: Crude Oil	3.75	60-2494
2	PIPELINE: Crude Oil	3.69	60-2495
2	PIPELINE: Crude Oil	3.63	60-2496
2	PIPELINE: Crude Oil	3.57	60-2497
2	PIPELINE: Crude Oil	3.51	60-2498
2	PIPELINE: Crude Oil	3.45	60-2499
2	PIPELINE: Crude Oil	3.39	60-2500
2	PIPELINE: Crude Oil	3.33	60-2501

2	PIPELINE: Crude Oil	3.27	60-2502
2	PIPELINE: Crude Oil	3.21	60-2503
2	PIPELINE: Crude Oil	3.16	60-2504
2	PIPELINE: Crude Oil	3.11	60-2505
2	PIPELINE: Crude Oil	3.06	60-2506
2	PIPELINE: Crude Oil	2.95	60-2508
2	PIPELINE: Crude Oil	2.9	60-2509
2	PIPELINE: Crude Oil	2.85	60-2510
2	PIPELINE: Crude Oil	2.8	60-2511
2	PIPELINE: Crude Oil	2.74	60-2512
2	PIPELINE: Crude Oil	2.69	60-2513
2	PIPELINE: Crude Oil	2.64	60-2514
2	PIPELINE: Crude Oil	2.59	60-2515
2	PIPELINE: Crude Oil	2.54	60-2516
2	PIPELINE: Crude Oil	2.49	60-2517
2	PIPELINE: Crude Oil	2.44	60-2518
2	PIPELINE: Crude Oil	2.39	60-2519
2	PIPELINE: Crude Oil	2.34	60-2520
2	PIPELINE: Crude Oil	2.3	60-2521
2	PIPELINE: Crude Oil	2.25	60-2522
2	PIPELINE: Crude Oil	2.2	60-2523
2	PIPELINE: Crude Oil	2.16	60-2524

2	PIPELINE: Crude Oil	2.12	60-2525
2	PIPELINE: Crude Oil	2.07	60-2526
2	PIPELINE: Crude Oil	2.03	60-2527
2	PIPELINE: Crude Oil	2.01	60-2568
2	PIPELINE: Crude Oil	2.05	60-2569
2	PIPELINE: Crude Oil	2.09	60-2570
2	PIPELINE: Crude Oil	2.13	60-2571
2	PIPELINE: Crude Oil	2.17	60-2572
2	PIPELINE: Crude Oil	2.22	60-2573
2	PIPELINE: Crude Oil	2.26	60-2574
2	PIPELINE: Crude Oil	2.3	60-2575
2	PIPELINE: Crude Oil	2.35	60-2576
2	PIPELINE: Crude Oil	2.4	60-2577
2	PIPELINE: Crude Oil	2.44	60-2578

Middle Fork Saline River Zone 4			
Health Risk Category	PSOC Description	Distance from Intake	Reference Number
2	ADEQ Leaking Underground Storage Tank	6.03	26000218
2	Bridge: State Highway	5.22	3-1289
2	Bridge: State Highway	5.01	3-1290
2	Bridge: State Highway	7.13	3-1292
2	Bridge: State Highway	5.96	3-1340
2	Bridge: State Highway	8.0	3-2881

2	Bridge: State Highway	5.18	3-4951
2	Bridge: State Highway	5.21	3-4952
2	PIPELINE: Crude Oil	6.33	60-2440
2	PIPELINE: Crude Oil	6.28	60-2441
2	PIPELINE: Crude Oil	6.23	60-2442
2	PIPELINE: Crude Oil	6.18	60-2443
2	PIPELINE: Crude Oil	6.14	60-2444
2	PIPELINE: Crude Oil	6.09	60-2445
2	PIPELINE: Crude Oil	6.05	60-2446
2	PIPELINE: Crude Oil	6.0	60-2447
2	PIPELINE: Crude Oil	5.96	60-2448
2	PIPELINE: Crude Oil	5.91	60-2449
2	PIPELINE: Crude Oil	5.87	60-2450
2	PIPELINE: Crude Oil	5.82	60-2451
2	PIPELINE: Crude Oil	5.78	60-2452
2	PIPELINE: Crude Oil	5.73	60-2453
2	PIPELINE: Crude Oil	5.69	60-2454
2	PIPELINE: Crude Oil	5.64	60-2455
2	PIPELINE: Crude Oil	5.6	60-2456
2	PIPELINE: Crude Oil	5.56	60-2457
2	PIPELINE: Crude Oil	5.51	60-2458
2	PIPELINE: Crude Oil	5.47	60-2459

2	PIPELINE: Crude Oil	5.42	60-2460
2	PIPELINE: Crude Oil	5.37	60-2461
2	PIPELINE: Crude Oil	5.33	60-2462
2	PIPELINE: Crude Oil	5.29	60-2463
2	PIPELINE: Crude Oil	5.25	60-2464
2	PIPELINE: Crude Oil	5.21	60-2465
2	PIPELINE: Crude Oil	5.15	60-2466
2	PIPELINE: Crude Oil	5.1	60-2467
2	PIPELINE: Crude Oil	5.05	60-2468
2	PIPELINE: Crude Oil	5.01	60-2469

Middle Fork Saline River Zone 3			
Health Risk Category	PSOC Description	Distance from Intake	Reference Number
3	Landing Strip	3.87	52-190
3	Communications Tower: Cellular	4.55	35-340
3	Communications Tower: Cellular	4.53	35-365
3	Communications Tower: Cellular	4.55	35-515
3	Communications Tower: Cellular	4.53	35-539

Middle Fork Saline River Zone 4			
Health Risk Category	PSOC Description	Distance from Intake	Reference Number
3	ADEQ Under-ground Storage Tank: In Use	6.04	26000218
3	ADEQ Under-ground Storage Tank: In Use	6.03	26000218

3	ADEQ Under-ground Storage Tank: In Use	6.03	26000218
3	ADEQ Under-ground Storage Tank: In Use	6.03	26000218
3	ADEQ Under-ground Storage Tank: In Use	6.02	26000218
3	ADEQ Under-ground Storage Tank: In Use	5.96	26000202
3	ADEQ Under-ground Storage Tank: In Use	5.95	26000202
3	ADEQ Under-ground Storage Tank: In Use	5.96	26000202
3	ADEQ Under-ground Storage Tank: In Use	5.95	26000202

Middle Fork Saline River Zone 4			
Health Risk Category	PSOC Description	Distance from Intake	Reference Number
4	Industrial Site: Unknown Type	6.39	70-1184

Middle Fork Saline River Zone 1			
Health Risk Category	PSOC Description	Distance from Intake	Reference Number
5	Bridge: County Road	0.78	1-1549

Middle Fork Saline River Zone 2			
Health Risk Category	PSOC Description	Distance from Intake	Reference Number
5	Bridge: County Road	1.81	1-1492
5	Bridge: County Road	1.54	1-1493
5	Bridge: County Road	1.26	1-6339
5	Bridge: County Road	1.93	1-6391

5	Bridge: Road	County	1.68	1-6394
5	Bridge: Road	County	1.29	1-10011
5	Bridge: Road	County	1.03	1-10018
5	Bridge: Road	County	1.92	1-10023

Middle Fork Saline River Zone 3				
Health Risk Category	PSOC Description		Distance from Intake	Reference Number
5	Bridge: Road	County	3.2	1-1489
5	Bridge: Road	County	2.45	1-1490
5	Bridge: Road	County	2.12	1-1491
5	Bridge: Road	County	3.59	1-1494
5	Bridge: Road	County	4.35	1-6296
5	Bridge: Road	County	4.16	1-6297
5	Bridge: Road	County	4.7	1-6298
5	Bridge: Road	County	4.54	1-6299
5	Bridge: Road	County	4.44	1-6307
5	Bridge: Road	County	3.51	1-6308
5	Bridge: Road	County	4.24	1-6309
5	Bridge: Road	County	4.29	1-6310
5	Bridge: Road	County	4.42	1-6311
5	Bridge: Road	County	4.37	1-6312
5	Bridge: Road	County	3.32	1-6313
5	Bridge: Road	County	2.91	1-6334

5	Bridge: Road	County	2.79	1-6335
5	Bridge: Road	County	2.37	1-6336
5	Bridge: Road	County	2.61	1-6337
5	Bridge: Road	County	2.55	1-6338
5	Bridge: Road	County	2.95	1-6340
5	Bridge: Road	County	4.91	1-6370
5	Bridge: Road	County	4.8	1-6372
5	Bridge: Road	County	4.61	1-6374
5	Bridge: Road	County	4.41	1-6375
5	Bridge: Road	County	3.06	1-6376
5	Bridge: Road	County	3.78	1-6377
5	Bridge: Road	County	3.59	1-6378
5	Bridge: Road	County	4.32	1-6379
5	Bridge: Road	County	3.91	1-6380
5	Bridge: Road	County	3.91	1-6381
5	Bridge: Road	County	5.0	1-6382
5	Bridge: Road	County	4.78	1-6384
5	Bridge: Road	County	4.26	1-6385
5	Bridge: Road	County	3.78	1-6386
5	Bridge: Road	County	3.16	1-6387
5	Bridge: Road	County	4.51	1-6388
5	Bridge: Road	County	4.77	1-6389

5	Bridge: Road	County	2.01	1-6390
5	Bridge: Road	County	2.62	1-6392
5	Bridge: Road	County	2.36	1-6393
5	Bridge: Road	County	2.6	1-6395
5	Bridge: Road	County	2.46	1-6396
5	Bridge: Road	County	2.4	1-6397
5	Bridge: Road	County	4.41	1-6398
5	Bridge: Road	County	3.62	1-6399
5	Bridge: Road	County	4.68	1-6401
5	Bridge: Road	County	4.52	1-6402
5	Bridge: Road	County	3.32	1-6404
5	Bridge: Road	County	2.13	1-6405
5	Bridge: Road	County	4.83	1-6406
5	Bridge: Road	County	4.85	1-6407
5	Bridge: Road	County	3.33	1-6408
5	Bridge: Road	County	2.79	1-6409
5	Bridge: Road	County	4.54	1-6452
5	Bridge: Road	County	4.66	1-6453
5	Bridge: Road	County	2.01	1-10015
5	Bridge: Road	County	2.35	1-10016

Middle Fork Saline River Zone 4			
Health Risk Category	PSOC Description	Distance from Intake	Reference Number

5	Bridge: Road	County	5.5	1-1495
5	Bridge: Road	County	5.4	1-6300
5	Bridge: Road	County	5.0	1-6301
5	Bridge: Road	County	5.83	1-6302
5	Bridge: Road	County	5.67	1-6303
5	Bridge: Road	County	5.69	1-6304
5	Bridge: Road	County	5.67	1-6305
5	Bridge: Road	County	6.16	1-6306
5	Bridge: Road	County	6.32	1-6348
5	Bridge: Road	County	5.83	1-6349
5	Bridge: Road	County	5.76	1-6350
5	Bridge: Road	County	5.68	1-6351
5	Bridge: Road	County	7.18	1-6352
5	Bridge: Road	County	7.43	1-6353
5	Bridge: Road	County	6.92	1-6354
5	Bridge: Road	County	8.09	1-6355
5	Bridge: Road	County	5.93	1-6356
5	Bridge: Road	County	6.92	1-6357
5	Bridge: Road	County	7.08	1-6358
5	Bridge: Road	County	6.17	1-6359
5	Bridge: Road	County	7.17	1-6360
5	Bridge: Road	County	7.44	1-6361

5	Bridge: Road	County	5.75	1-6362
5	Bridge: Road	County	5.78	1-6363
5	Bridge: Road	County	6.62	1-6364
5	Bridge: Road	County	7.01	1-6365
5	Bridge: Road	County	5.39	1-6366
5	Bridge: Road	County	5.5	1-6367
5	Bridge: Road	County	5.32	1-6368
5	Bridge: Road	County	5.98	1-6369
5	Bridge: Road	County	5.56	1-6371
5	Bridge: Road	County	5.24	1-6373
5	Bridge: Road	County	5.05	1-6383
5	Bridge: Road	County	5.07	1-6400
5	Bridge: Road	County	5.4	1-6403
5	Bridge: Road	County	7.19	1-6418
5	Bridge: Road	County	6.91	1-6419
5	Bridge: Road	County	6.14	1-6420
5	Bridge: Road	County	6.42	1-6421
5	Bridge: Road	County	6.61	1-6422
5	Bridge: Road	County	6.64	1-6423
5	Bridge: Road	County	5.92	1-6424
5	Bridge: Road	County	5.48	1-6446
5	Bridge: Road	County	5.24	1-10033

Middle Fork Saline River Zone 4			
Health Risk Category	PSOC Description	Distance from Intake	Reference Number
6	Park/Public Use Area	6.91	47-14
6	Park/Public Use Area	6.84	49-762
6	ADEQ NPDES Permit Outfall: Individual Domestic	6.25	AR0052809
6	ADEQ NPDES Permit Outfall: Individual Domestic	5.0	AR0044423
6	ADEQ NPDES Permit Outfall: Individual Domestic	5.75	AR0048194

Middle Fork Saline River Zone 3			
Health Risk Category	PSOC Description	Distance from Intake	Reference Number
7	School	4.98	58-1025

Middle Fork Saline River Zone 4			
Health Risk Category	PSOC Description	Distance from Intake	Reference Number
7	School	5.1	58-42
7	School	5.04	58-65

Middle Fork Saline River Zone 4			
Health Risk Category	PSOC Description	Distance from Intake	Reference Number
8	Unregulated Quarry/Gravel Pit	7.12	305-23

Middle Fork Saline River Zone 1			
Health Risk Category	PSOC Description	Distance from Intake	Reference Number
9	Individual Sewage Disposal System	0.81	90-51440
9	Individual Sewage Disposal System	0.92	90-51442
9	Individual Sewage Disposal System	0.67	90-59412
9	Individual Sewage Disposal System	0.75	90-59413

9	Individual Sewage Disposal System	0.8	90-59414
9	Individual Sewage Disposal System	0.86	90-59415

Middle Fork Saline River Zone 2			
Health Risk Category	PSOC Description	Distance from Intake	Reference Number
9	Individual Sewage Disposal System	1.98	90-49456
9	Individual Sewage Disposal System	1.99	90-49457
9	Individual Sewage Disposal System	1.86	90-49460
9	Individual Sewage Disposal System	1.86	90-49461
9	Individual Sewage Disposal System	1.91	90-49462
9	Individual Sewage Disposal System	1.88	90-49463
9	Individual Sewage Disposal System	1.9	90-49464
9	Individual Sewage Disposal System	1.92	90-49465
9	Individual Sewage Disposal System	1.98	90-49466
9	Individual Sewage Disposal System	1.9	90-49467
9	Individual Sewage Disposal System	1.82	90-49468
9	Individual Sewage Disposal System	1.74	90-49469
9	Individual Sewage Disposal System	1.0	90-49473
9	Individual Sewage Disposal System	1.12	90-49474
9	Individual Sewage Disposal System	1.7	90-49477
9	Individual Sewage Disposal System	1.69	90-49478
9	Individual Sewage Disposal System	1.35	90-49479
9	Individual Sewage Disposal System	1.33	90-49480

9	Individual Sewage Disposal System	1.34	90-49481
9	Individual Sewage Disposal System	1.64	90-49482
9	Individual Sewage Disposal System	1.89	90-49483
9	Individual Sewage Disposal System	1.85	90-49484
9	Individual Sewage Disposal System	1.95	90-49485
9	Individual Sewage Disposal System	2.0	90-49486
9	Individual Sewage Disposal System	1.04	90-51441
9	Individual Sewage Disposal System	1.83	90-51443
9	Individual Sewage Disposal System	1.73	90-51444
9	Individual Sewage Disposal System	1.13	90-59406
9	Individual Sewage Disposal System	1.3	90-59407
9	Individual Sewage Disposal System	1.2	90-59408
9	Individual Sewage Disposal System	1.56	90-59409
9	Individual Sewage Disposal System	1.53	90-59410
9	Individual Sewage Disposal System	1.65	90-59411

Middle Fork Saline River Zone 3			
Health Risk Category	PSOC Description	Distance from Intake	Reference Number
9	Individual Sewage Disposal System	3.14	90-49441
9	Individual Sewage Disposal System	3.12	90-49442
9	Individual Sewage Disposal System	2.64	90-49443
9	Individual Sewage Disposal System	2.6	90-49444
9	Individual Sewage Disposal System	2.57	90-49445

9	Individual Sewage Disposal System	2.64	90-49446
9	Individual Sewage Disposal System	2.56	90-49447
9	Individual Sewage Disposal System	2.41	90-49448
9	Individual Sewage Disposal System	2.37	90-49449
9	Individual Sewage Disposal System	2.56	90-49450
9	Individual Sewage Disposal System	2.43	90-49451
9	Individual Sewage Disposal System	2.4	90-49452
9	Individual Sewage Disposal System	2.36	90-49453
9	Individual Sewage Disposal System	2.29	90-49454
9	Individual Sewage Disposal System	2.1	90-49455
9	Individual Sewage Disposal System	2.04	90-49458
9	Individual Sewage Disposal System	3.33	90-49459
9	Individual Sewage Disposal System	2.08	90-49470
9	Individual Sewage Disposal System	2.03	90-49471
9	Individual Sewage Disposal System	2.18	90-49472
9	Individual Sewage Disposal System	2.14	90-49475
9	Individual Sewage Disposal System	2.22	90-49476
9	Individual Sewage Disposal System	2.3	90-49487
9	Individual Sewage Disposal System	3.28	90-51445
9	Individual Sewage Disposal System	3.31	90-51446
9	Individual Sewage Disposal System	3.24	90-51447
9	Individual Sewage Disposal System	3.22	90-51448

9	Individual Sewage Disposal System	3.19	90-51449
9	Individual Sewage Disposal System	3.16	90-51450
9	Individual Sewage Disposal System	3.18	90-51451
9	Individual Sewage Disposal System	4.5	90-53103
9	Individual Sewage Disposal System	4.47	90-53104
9	Individual Sewage Disposal System	4.39	90-53105
9	Individual Sewage Disposal System	4.43	90-53106
9	Individual Sewage Disposal System	4.43	90-53107
9	Individual Sewage Disposal System	4.44	90-53108
9	Individual Sewage Disposal System	4.36	90-53109
9	Individual Sewage Disposal System	4.33	90-53110
9	Individual Sewage Disposal System	4.36	90-53111
9	Individual Sewage Disposal System	4.21	90-53112
9	Individual Sewage Disposal System	4.24	90-53113
9	Individual Sewage Disposal System	3.5	90-53114
9	Individual Sewage Disposal System	3.47	90-53115
9	Individual Sewage Disposal System	3.51	90-53116
9	Individual Sewage Disposal System	3.47	90-53117
9	Individual Sewage Disposal System	3.47	90-53118
9	Individual Sewage Disposal System	3.42	90-53119
9	Individual Sewage Disposal System	3.58	90-53120
9	Individual Sewage Disposal System	3.58	90-53121

9	Individual Sewage Disposal System	3.67	90-53122
9	Individual Sewage Disposal System	4.89	90-53123
9	Individual Sewage Disposal System	3.27	90-53124
9	Individual Sewage Disposal System	3.18	90-53125
9	Individual Sewage Disposal System	3.14	90-53126
9	Individual Sewage Disposal System	3.12	90-53127
9	Individual Sewage Disposal System	2.97	90-53128
9	Individual Sewage Disposal System	3.71	90-53129
9	Individual Sewage Disposal System	3.7	90-53130
9	Individual Sewage Disposal System	3.75	90-53131
9	Individual Sewage Disposal System	3.79	90-53132
9	Individual Sewage Disposal System	3.81	90-53133
9	Individual Sewage Disposal System	3.55	90-53134
9	Individual Sewage Disposal System	3.9	90-53135
9	Individual Sewage Disposal System	3.49	90-53136
9	Individual Sewage Disposal System	3.47	90-53137
9	Individual Sewage Disposal System	3.53	90-53138
9	Individual Sewage Disposal System	4.84	90-53139
9	Individual Sewage Disposal System	4.78	90-53140
9	Individual Sewage Disposal System	4.76	90-53141
9	Individual Sewage Disposal System	4.73	90-53142
9	Individual Sewage Disposal System	4.8	90-53143

9	Individual Sewage Disposal System	4.75	90-53144
9	Individual Sewage Disposal System	4.8	90-53145
9	Individual Sewage Disposal System	4.68	90-53146
9	Individual Sewage Disposal System	4.57	90-53147
9	Individual Sewage Disposal System	4.63	90-53148
9	Individual Sewage Disposal System	4.79	90-53149
9	Individual Sewage Disposal System	4.7	90-53150
9	Individual Sewage Disposal System	4.67	90-53151
9	Individual Sewage Disposal System	4.63	90-53152
9	Individual Sewage Disposal System	4.78	90-53153
9	Individual Sewage Disposal System	4.65	90-53154
9	Individual Sewage Disposal System	4.59	90-53155
9	Individual Sewage Disposal System	4.29	90-53156
9	Individual Sewage Disposal System	4.27	90-53157
9	Individual Sewage Disposal System	4.1	90-53158
9	Individual Sewage Disposal System	3.97	90-53159
9	Individual Sewage Disposal System	3.93	90-53160
9	Individual Sewage Disposal System	3.82	90-53161
9	Individual Sewage Disposal System	4.23	90-53162
9	Individual Sewage Disposal System	4.23	90-53579
9	Individual Sewage Disposal System	2.53	90-53707
9	Individual Sewage Disposal System	2.46	90-53708

9	Individual Sewage Disposal System	2.92	90-53709
9	Individual Sewage Disposal System	2.92	90-53710
9	Individual Sewage Disposal System	2.82	90-53711
9	Individual Sewage Disposal System	2.84	90-53712
9	Individual Sewage Disposal System	2.83	90-53713
9	Individual Sewage Disposal System	2.96	90-53714
9	Individual Sewage Disposal System	3.62	90-53715
9	Individual Sewage Disposal System	3.4	90-53716
9	Individual Sewage Disposal System	3.36	90-53717
9	Individual Sewage Disposal System	3.35	90-53718
9	Individual Sewage Disposal System	3.45	90-53719
9	Individual Sewage Disposal System	3.57	90-53720
9	Individual Sewage Disposal System	4.24	90-53721
9	Individual Sewage Disposal System	4.17	90-53722
9	Individual Sewage Disposal System	4.15	90-53723
9	Individual Sewage Disposal System	4.08	90-53724
9	Individual Sewage Disposal System	4.06	90-53725
9	Individual Sewage Disposal System	4.09	90-53726
9	Individual Sewage Disposal System	4.08	90-53727
9	Individual Sewage Disposal System	4.02	90-53728
9	Individual Sewage Disposal System	3.99	90-53729
9	Individual Sewage Disposal System	4.54	90-53730

9	Individual Sewage Disposal System	4.53	90-53731
9	Individual Sewage Disposal System	4.44	90-53732

Middle Fork Saline River Zone 4			
Health Risk Category	PSOC Description	Distance from Intake	Reference Number
9	Individual Sewage Disposal System	5.64	90-53163
9	Individual Sewage Disposal System	5.64	90-53164
9	Individual Sewage Disposal System	5.64	90-53165
9	Individual Sewage Disposal System	5.63	90-53166
9	Individual Sewage Disposal System	5.63	90-53167
9	Individual Sewage Disposal System	5.63	90-53168
9	Individual Sewage Disposal System	5.55	90-53169
9	Individual Sewage Disposal System	5.52	90-53170
9	Individual Sewage Disposal System	5.49	90-53171
9	Individual Sewage Disposal System	5.51	90-53172
9	Individual Sewage Disposal System	5.46	90-53173
9	Individual Sewage Disposal System	5.48	90-53174
9	Individual Sewage Disposal System	5.48	90-53175
9	Individual Sewage Disposal System	5.48	90-53176
9	Individual Sewage Disposal System	5.49	90-53177
9	Individual Sewage Disposal System	5.5	90-53178
9	Individual Sewage Disposal System	5.51	90-53179
9	Individual Sewage Disposal System	5.53	90-53180

9	Individual Sewage Disposal System	5.54	90-53181
9	Individual Sewage Disposal System	5.55	90-53182
9	Individual Sewage Disposal System	5.55	90-53183
9	Individual Sewage Disposal System	5.53	90-53184
9	Individual Sewage Disposal System	5.51	90-53185
9	Individual Sewage Disposal System	5.55	90-53186
9	Individual Sewage Disposal System	5.55	90-53187
9	Individual Sewage Disposal System	5.54	90-53188
9	Individual Sewage Disposal System	5.51	90-53189
9	Individual Sewage Disposal System	5.5	90-53190
9	Individual Sewage Disposal System	5.58	90-53191
9	Individual Sewage Disposal System	5.58	90-53192
9	Individual Sewage Disposal System	5.59	90-53193
9	Individual Sewage Disposal System	5.61	90-53194
9	Individual Sewage Disposal System	5.57	90-53195
9	Individual Sewage Disposal System	5.61	90-53196
9	Individual Sewage Disposal System	5.59	90-53197
9	Individual Sewage Disposal System	5.57	90-53198
9	Individual Sewage Disposal System	5.61	90-53199
9	Individual Sewage Disposal System	5.57	90-53200
9	Individual Sewage Disposal System	5.46	90-53201
9	Individual Sewage Disposal System	5.44	90-53202

9	Individual Sewage Disposal System	5.43	90-53203
9	Individual Sewage Disposal System	5.42	90-53204
9	Individual Sewage Disposal System	5.4	90-53205
9	Individual Sewage Disposal System	5.39	90-53206
9	Individual Sewage Disposal System	5.38	90-53208
9	Individual Sewage Disposal System	5.37	90-53209
9	Individual Sewage Disposal System	5.25	90-53210
9	Individual Sewage Disposal System	5.16	90-53211
9	Individual Sewage Disposal System	5.19	90-53212
9	Individual Sewage Disposal System	5.33	90-53213
9	Individual Sewage Disposal System	5.29	90-53214
9	Individual Sewage Disposal System	5.26	90-53215
9	Individual Sewage Disposal System	5.23	90-53216
9	Individual Sewage Disposal System	5.26	90-53217
9	Individual Sewage Disposal System	5.19	90-53218
9	Individual Sewage Disposal System	5.13	90-53219
9	Individual Sewage Disposal System	5.22	90-53220
9	Individual Sewage Disposal System	5.22	90-53221
9	Individual Sewage Disposal System	5.45	90-53222
9	Individual Sewage Disposal System	5.98	90-53223
9	Individual Sewage Disposal System	5.85	90-53224
9	Individual Sewage Disposal System	5.88	90-53225

9	Individual Sewage Disposal System	5.74	90-53226
9	Individual Sewage Disposal System	5.64	90-53227
9	Individual Sewage Disposal System	5.66	90-53228
9	Individual Sewage Disposal System	5.63	90-53229
9	Individual Sewage Disposal System	5.71	90-53230
9	Individual Sewage Disposal System	5.74	90-53231
9	Individual Sewage Disposal System	5.59	90-53232
9	Individual Sewage Disposal System	6.01	90-53233
9	Individual Sewage Disposal System	5.93	90-53234
9	Individual Sewage Disposal System	6.07	90-53235
9	Individual Sewage Disposal System	5.66	90-53236
9	Individual Sewage Disposal System	5.56	90-53237
9	Individual Sewage Disposal System	5.58	90-53238
9	Individual Sewage Disposal System	5.43	90-53239
9	Individual Sewage Disposal System	5.33	90-53568
9	Individual Sewage Disposal System	5.31	90-53569
9	Individual Sewage Disposal System	5.3	90-53570
9	Individual Sewage Disposal System	5.2	90-53571
9	Individual Sewage Disposal System	5.25	90-53572
9	Individual Sewage Disposal System	5.27	90-53573
9	Individual Sewage Disposal System	5.11	90-53574
9	Individual Sewage Disposal System	5.13	90-53575

9	Individual Sewage Disposal System	5.13	90-53576
9	Individual Sewage Disposal System	5.14	90-53577
9	Individual Sewage Disposal System	5.13	90-53578
9	Individual Sewage Disposal System	5.37	90-53580
9	Individual Sewage Disposal System	5.37	90-53581
9	Individual Sewage Disposal System	5.22	90-53582
9	Individual Sewage Disposal System	5.2	90-53583
9	Individual Sewage Disposal System	5.19	90-53584
9	Individual Sewage Disposal System	5.16	90-53585
9	Individual Sewage Disposal System	5.13	90-53586
9	Individual Sewage Disposal System	5.21	90-53587
9	Individual Sewage Disposal System	5.2	90-53588
9	Individual Sewage Disposal System	5.19	90-53589
9	Individual Sewage Disposal System	5.17	90-53590
9	Individual Sewage Disposal System	5.14	90-53591
9	Individual Sewage Disposal System	5.12	90-53592
9	Individual Sewage Disposal System	5.15	90-53593
9	Individual Sewage Disposal System	5.07	90-53594
9	Individual Sewage Disposal System	5.09	90-53595
9	Individual Sewage Disposal System	5.52	90-53596
9	Individual Sewage Disposal System	5.54	90-53597
9	Individual Sewage Disposal System	5.53	90-53598

9	Individual Sewage Disposal System	5.63	90-53600
9	Individual Sewage Disposal System	5.42	90-53603
9	Individual Sewage Disposal System	5.03	90-53604
9	Individual Sewage Disposal System	5.04	90-53605
9	Individual Sewage Disposal System	5.02	90-53606
9	Individual Sewage Disposal System	5.94	90-53607
9	Individual Sewage Disposal System	5.65	90-53608
9	Individual Sewage Disposal System	5.58	90-53609
9	Individual Sewage Disposal System	5.73	90-53610
9	Individual Sewage Disposal System	5.82	90-53611
9	Individual Sewage Disposal System	5.42	90-53612
9	Individual Sewage Disposal System	5.49	90-53613
9	Individual Sewage Disposal System	5.43	90-53733
9	Individual Sewage Disposal System	5.41	90-53734
9	Individual Sewage Disposal System	5.36	90-53735
9	Individual Sewage Disposal System	5.31	90-53736
9	Individual Sewage Disposal System	5.33	90-53737
9	Individual Sewage Disposal System	5.31	90-53738
9	Individual Sewage Disposal System	5.3	90-53739
9	Individual Sewage Disposal System	5.28	90-53740
9	Individual Sewage Disposal System	5.23	90-53741
9	Individual Sewage Disposal System	5.26	90-53742

9	Individual Sewage Disposal System	5.27	90-53743
9	Individual Sewage Disposal System	5.25	90-53744
9	Individual Sewage Disposal System	5.08	90-53745
9	Individual Sewage Disposal System	5.02	90-53750
9	Individual Sewage Disposal System	5.15	90-53758
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9	Individual Sewage Disposal System	5.74	90-53796
9	Individual Sewage Disposal System	5.73	90-53797
9	Individual Sewage Disposal System	5.78	90-53798

9	Individual Sewage Disposal System	5.78	90-53799
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9	Individual Sewage Disposal System	5.68	90-53801
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9	Individual Sewage Disposal System	5.33	90-53808
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9	Individual Sewage Disposal System	6.24	90-54222

9	Individual Sewage Disposal System	6.3	90-54223
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9	Individual Sewage Disposal System	6.26	90-54226
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9	Individual Sewage Disposal System	6.48	90-54229
9	Individual Sewage Disposal System	6.44	90-54230
9	Individual Sewage Disposal System	6.12	90-54231
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9	Individual Sewage Disposal System	6.3	90-54240
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9	Individual Sewage Disposal System	5.75	90-56797
9	Individual Sewage Disposal System	6.12	90-56798
9	Individual Sewage Disposal System	6.08	90-56799
9	Individual Sewage Disposal System	5.91	90-56801
9	Individual Sewage Disposal System	5.83	90-56802

Middle Fork Saline River Zone 1			
Health Risk Category	PSOC Description	Distance from Intake	Reference Number
10	Cemetery	0.88	38-4536

Middle Fork Saline River Zone 2			
Health Risk Category	PSOC Description	Distance from Intake	Reference Number

10	Cemetery	1.74	38-4537
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Middle Fork Saline River Zone 3			
Health Risk Category	PSOC Description	Distance from Intake	Reference Number
10	Cemetery	3.99	38-4538

LIST OF PSOCS BY ZONE

**Hot Springs Village Water
Lake Lago - 208102**

Susceptibility Rating - Medium

D. Example of Notice of Report Availability for Customers

The Arkansas Department of Health completed a source water Vulnerability Assessment for Hot Springs Village Water in November 2018. This assessment summarizes the potential for contamination of our source of drinking water and can be used as a basis for developing a source water protection plan. A report explaining the assessment process and results can be obtained from the Hot Springs Village Water office, or accessed through the Arkansas Department of Health's SWAP website at: <http://www.healthy.arkansas.gov/images/uploads/pdf/drinking-water-ArkSWAP.pdf>.

E. Maps of Source and Assessment Area

For each water source a map is included showing their location, respective assessment area and related PSOCs.

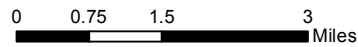
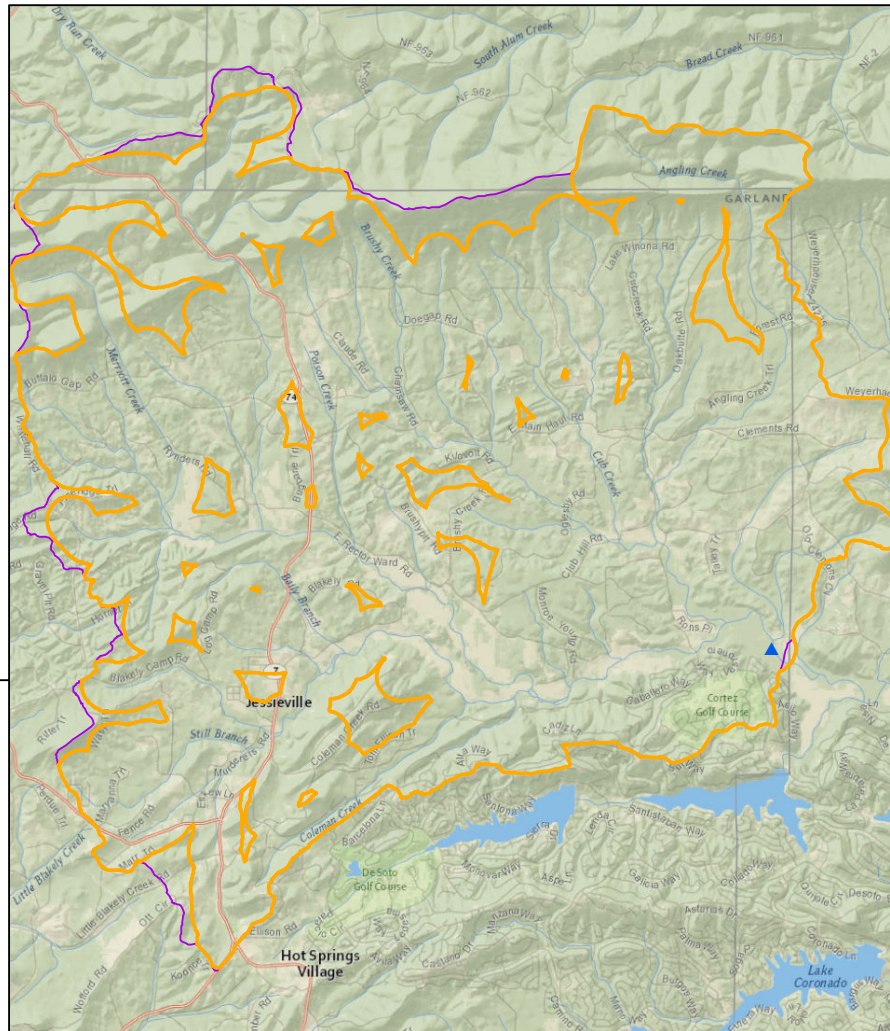
Hot Springs Village Water Overview Map of Middle Fork Saline River - 208101 PWS ID = 208

Explanation

- ▲ Source Intake
- Assessment Area
- Drainage Basin



The information herein is derived from sources managed by other agencies and organizations to their own standards. The ADH makes no warranty nor assumes any liability for the accuracy, completeness, timeliness, or fitness for a particular purpose with respect to this information. Conclusions drawn from such information are the responsibility of the user.



Hot Springs Village Water Middle Fork Saline River - 208101 PWS ID = 208

Explanation

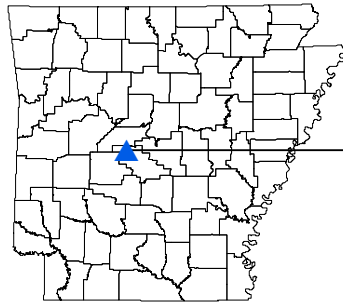
▲ Source Intake

PSOCs and their Health Risk Codes

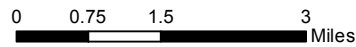
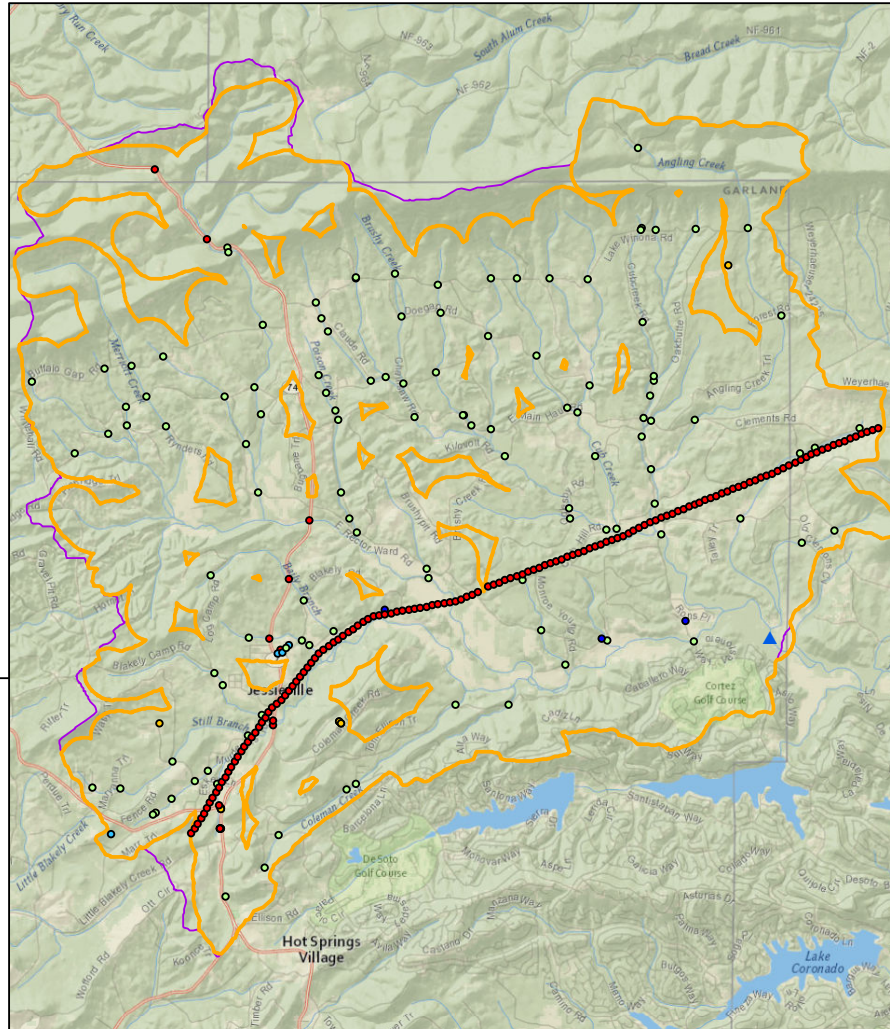
- 1 and 2 (Highest Risk)
- 3 and 4
- 5 and 6 (Moderate Risk)
- 7 and 8
- 9 and 10 (Lowest Risk)

Assessment Area

Drainage Basin






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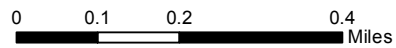
Hot Springs Village Water
Overview Map of Lake Lago - 208102
PWS ID = 208

Explanation

-  Source Intake
-  Assessment Area
-  Drainage Basin



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**Hot Springs Village Water
Lake Lago - 208102
PWS ID = 208**

Explanation

▲ Source Intake

PSOCs and their Health Risk Codes

- 1 and 2 (Highest Risk)
- 3 and 4
- 5 and 6 (Moderate Risk)
- 7 and 8
- 9 and 10 (Lowest Risk)

▭ Assessment Area

▭ Drainage Basin



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