

F3.3.10

Risk to Inventoried Springs

Table F3.3.10-1A Inventoried Springs Located within the 10-foot Drawdown Contour and in areas where there is a high or moderate risk of impacts (Project Specific)

GW Flow System	Basin Number	Basin Name	Spring		Geomorphic Setting (Relative Risk)			No Action		Proposed Action		Alt. A		Alt. B		Alt. C		Alt. D		Alt. E						
			ID	Name	Avg. Flow (GPM)	High (Valley Bottom) (High Risk)	Valley Margin (Mod. Risk)	0	75	200	0	75	200	0	75	200	0	75	200	0	75	200	0	75	200	
																										Full Build
White River	207	White River Valley	SPWRV0002	Arnoldson Spring	1,608.4	X		X	X																	
			SPWRV0011	Butterfield Spring	1,225.0	X																				
			SPWRV0204	Camp Spring	0.0	X																				
			SPWRV0003	Cold Spring	581.6	X				X	X															
			SPWRV0015	Douglas Spring	122.0	X																				
			SPWRV0025	Egan Spring	5.0	X																				
			SPWRV0018	Emigrant Springs	796.7	X																				
			SPWRV0171	Emigrant Springs	0.0	X																				
			SPWRV0010	Flag Springs 1	1,018.9	X																				
			SPWRV0009	Flag Springs 2	1,287.0	X																				
			SPWRV0008	Flag Springs 3	969.3	X																				
			SPWRV0013	Hardy Spring NW	4.9	X																				
			SPWRV0012	Hardy Springs	199.9	X																				
			SPWRV0001	Hot Creek Spring	5,031.5	X																				
			SPWRV0023	Indian Ranch Spring	236.4	X					X	X														
			SPWRV0024	Jacob Spring	175.0	X																				
			SPWRV0005	Lund Spring	3,594.0	X																				
			SPWRV0017	Moon River Spring	1,706.7	X																				
			SPWRV0006	Moorman Spring	405.1	X																				
			SPWRV0014	Nicholas Spring	1,185.4	X																				
SPWRV0004	Preston Big Spring	3,572.0	X					X	X																	
SPWRV0092	Ruppas Boghole	0.0	X																							
SPWRV0067	Silver Springs	0.0	X																							
SPWRV0022	Tin Can / McQuinty Spring	105.1	X																							
SPWRV0157	Unnamed Spring, West of Hwy 6	0.0	X																							
SPWRV0020	Warm Spring	92.3	X																							
SPWRV0016	Williams Hot Spring	71.6	X																							
SPCAV0001	Cave Spring	211.4	X											X	X								X			
SPCAV0039	Unnamed springs, Parker Station	0.0	X																							
SPGDV0029	Unnamed springs, south of Cherry Creek	0.0	X																							
SPPAV0005	Ash Springs	6,909.0	X																							
SPPAV0006	Brownie Spring	224.0	X																							
SPPAV0007	Cottonwood Spring	1,760.2	X																							
SPPAV0004	Crystal Springs	4,235.4	X																							
SPPAV0001	Hiko Spring	2,734.7	X																							
SPPAV0021	Hoyt Spring	0.0	X																							
SPPAV0002	Solar Panel Spring	0.3	X																							
SPGSV0007	Coyote Spring	0.0	X																							
SPMRV0020	100 m downstream from Muddy Spring (recollected 5/29/92)	0.0	X																							
SPMRV0017	Apcar Springs (Moapa)	264.2	X																							
SPMRV0004	Baldwin Spring	1,065.3	X																							
SPMRV0027	Cardy Lamb Spring	0.0	X																							
SPMRV0006	Iverson Flume	3,911.9	X																							
SPMRV0018	Jackass Spring	0.5	X																							
SPMRV0003	Jones Spring	455.2	X																							
SPMRV0016	M-10	277.8	X																							
SPMRV0007	M-11	514.9	X																							
SPMRV0008	M-12	110.1	X																							
SPMRV0009	M-13	287.3	X																							
SPMRV0010	M-15	702.3	X																							
SPMRV0011	M-16	132.9	X																							
SPMRV0012	M-19	413.7	X																							
SPMRV0013	M-20	362.6	X																							

Table F3.3.10-1A Inventoried Springs Located within the 10-foot Drawdown Contour and in areas where there is a high or moderate risk of impacts (Project Specific)

GW Flow System	Basin Number	Basin Name	Spring		Geomorphic Setting (Relative Risk)		No Action		Proposed Action		Alt. A		Alt. B		Alt. C		Alt. D		Alt. E					
			ID	Name	Avg. Flow (GPM)	High (Valley Bottom (High Risk))	Valley Margin (Mod. Risk)	Years After Full Build	Out	Years After Full Build	Out	Years After Full Build	Out	Years After Full Build	Out	Years After Full Build	Out	Years After Full Build	Out	Years After Full Build	Out			
								0	75	200	0	75	200	0	75	200	0	75	200	0	75	200		
Goshute Valley	220	Lower Moapa Valley	SPMRS0005	Muddy Spring	3,148.4	X																		
			SPMRS0001	Pederson East Spring	90.5	X																		
			SPMRS0002	Pederson Spring	89.8	X																		
			SPMRS0024	Sada Spring System	0.0	X																		
			SPMRS0014	Warm Springs East	1,000.3	X																		
			SPMRS0015	Warm Springs West	2,430.9	X																		
			SPLMV0001	Magnesite Spring	0.3		X																	
			SPBMA0003	Bitter Spring	2.6	X																		
			SPBMA0002	Blue Point Spring	223.4	X																		
			SPBMA0013	Corral Spring	0.0	X																		
			SPBMA0009	East of Blue Point Spring	0.0	X																		
			SPBMA0004	Lower Valley of Fire Wash Spring	5.3	X																		
			SPBMA0001	Rogers Spring	771.0	X																		
			SPBMA0014	Scirpus Spring	0.0	X																		
			SPBMA0006	Southeast of Rogers Spring	5.3	X																		
			SPBMA0005	Upper Valley of Fire Wash Spring	0.3	X																		
			SPSTV0018	Archie Spring	4.5		X																	
SPSTV0016	Becky Springs	9.0		X																				
SPSTV0037	Bennett Spring	0.0	X																					
SPSTV0037	Borchert Spring	609.5	X																					
SPSTV0033	Campbells Embayment Spring	2,745.7	X																					
SPSTV0003	Cherry Creek Hot Springs	33.7		X																				
SPSTV0006	Cold Spring	0.0	X																					
SPSTV0028	Collar and Elbow Spring	11.3	X																					
SPSTV0026	Cornins Lake Spring	334.3	X																					
SPSTV0004	Cow Trim Spring	0.0	X																					
SPSTV0036	Currie Gardens	225.0	X																					
SPSTV0030	Currie Springs	2,180.7	X																					
SPSTV0035	Egan Creek Springs	803.3	X																					
SPSTV0558	Flat Spring	0.0		X																				
SPSTV1010	Goat Spring	0.0		X																				
SPSTV0007	Indian Ranch Spring	215.5	X																					
SPSTV0041	Lackawanna Springs	134.6	X																					
SPSTV0045	Lambert Ranch Springs	4.5		X																				
SPSTV0023	Lower Schellbourne Cold Spring	100.0	X																					
SPSTV0042	Lower Schellbourne Pass Spring	314.2	X																					
SPSTV0040	Lower Schellbourne Warm Spring	450.0	X																					
SPSTV0015	Lower Spring	4.5		X																				
SPSTV0002	McGill Spring	4,782.5	X																					
SPSTV0005	Monte Neva Hot Springs	648.6	X																					
SPSTV0034	Mustang Springs	4.5	X																					
SPSTV0027	Nelson Spring	973.2	X																					
SPSTV0032	Ninemile Springs	10.0		X																				
SPSTV0029	Schoolhouse Spring	450.0	X																					
SPSTV0044	Shallenberger Spring	450.0	X																					
SPSTV0031	Twin Springs	661.0	X																					
SPSTV0776	Twin Springs	0.0	X																					
SPSTV0256	Unnamed Spring, northwest of Clark Spring	0.0	X																					
SPSTV0176	Unnamed Spring, tributary to Schell Creek	0.0		X																				
SPSTV0700	Unnamed Springs, East Creek	0.0		X																				
SPSTV0260	Unnamed Springs, north of Grass Springs	0.0	X																					
SPSTV0858	Unnamed Springs, south of Currie	0.0	X																					

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GW Flow System	Basin Number	Basin Name	Spring		Geomorphic Setting (Relative Risk)		No Action		Proposed Action		Alt. A		Alt. B		Alt. C		Alt. D		Alt. E					
			ID	Name	Avg. Flow (GPM)	High (Valley Bottom (High Risk))	Valley Margin (Mod. Risk)	Years After Full Build	Out	Years After Full Build	Out	Years After Full Build	Out	Years After Full Build	Out	Years After Full Build	Out	Years After Full Build	Out	Years After Full Build	Out	Years After Full Build	Out	
			0	75	200	0	75	200	0	75	200	0	75	200	0	75	200	0	75	200	0	75	200	
Salt Lake Desert	178B	Butte Valley (Southern Part)	SPSTV0484	Williams Creek Springs	0.0		X																	
			SPSTV0010	Willow Creek Springs	623.8		X																	
			SPSTV0043	Willow Creek Springs	685.0		X																	
			SPBVS0005	Gulch Spring	20.0		X																	
			SPBVS0006	Owens Springs	162.2	X																		
			SPBVS0008	Stratton Springs	350.0	X																		
			SPBVS0007	Twin Springs	25.0	X																		
			SPHAV0002	South Little Spring (North)	0.0	X																		
			SPHAV0001	The Troughs Outlet	1.0	X																		
			SPSVS0012	Blind Spring	0.0	X																		
			SPSVS0012	Cleveland Ranch (South), Unnamed																				
			SPSVS0708	Spring	0.0	X																		
			SPSVS0017	Four Wheel Drive Spring	16.0	X																		
			SPSVS0709	Indian Springs	0.0	X																		
			SPSVS0015	Indian Springs East	11.2	X																		
			SPSVS0016	Indian Springs West	0.6	X																		
			SPSVS0018	Keegan Spring	233.7	X																		
SPSVS0510	Keegan Spring Complex (Middle)	0.0	X																					
SPSVS0505	Keegan Spring Complex (North)	220.5	X																					
SPSVS0506	Keegan Spring Complex (South)	0.0	X																					
SPSVS0008	Layton Spring	0.4	X																					
SPSVS0594	Layton Spring	0.0	X																					
SPSVS0019	Minerva Spring	257.7	X																					
SPSVS0502	Minerva Spring Complex (Middle)	124.1	X																					
SPSVS0501	Minerva Spring Complex (North)	0.0	X																					
SPSVS0004	North Millick Spring	284.0	X																					
SPSVS0009	North Spring	5.0	X																					
SPSVS0507	Osborne Spring	0.0	X																					
SPSVS0014	Osborne Springs	2.7	X																					
SPSVS0030	Shoshone Spring	153.0	X																					
SPSVS0006	South Bastian Spring	3.1	X																					
SPSVS0007	South Bastian Spring 2	0.6	X																					
SPSVS0005	South Millick Spring	506.1	X																					
SPSVS0021	Stonehouse Spring	0.0	X																					
SPSVS0504	Stonehouse Spring Complex	0.0	X																					
SPSVS0509	Swallow Spring	317.5	X																					
SPSVS0010	The Cedars	37.1	X																					
SPSVS0022	The Seep	4.5	X																					
SPSVS0023	Unnamed 5 Spring	0.0	X																					
SPSVS0031	Unnamed Spring	5.6	X																					
SPSVS0562	Unnamed Springs	0.0	X																					
SPSVS0066	Unnamed springs, 3.2 km north of Minerva	0.0	X																					
SPSVS0512	Unnamed springs, east of Cleve Creek	0.8	X																					
SPSVS0516	Unnamed Springs, Stonehouse	0.0	X																					
SPSVS0503	West Spring Valley Complex # 1	437.9	X																					
SPSVS0508	West Spring Valley Complex # 5	755.6	X																					
SPSVS0003	Willard Springs	1.5	X																					
SPSVS0002	Willow Spring	10.5	X																					

Table F3.3.10-1A Inventoried Springs Located within the 10-foot Drawdown Contour and in areas where there is a high or moderate risk of impacts (Project Specific)

GW Flow System	Basin Number	Basin Name	Spring		Geomorphic Setting (Relative Risk)		No Action		Proposed Action		Alt. A		Alt. B		Alt. C		Alt. D		Alt. E					
			ID	Name	Avg. Flow (GPM)	High (Valley Bottom (High Risk))	Valley Margin (Mod. Risk)	Years After Full Build	Out	Years After Full Build	Out	Years After Full Build	Out	Years After Full Build	Out	Years After Full Build	Out	Years After Full Build	Out	Years After Full Build	Out			
194	Pleasant Valley	Snake Valley	SPPLV0001	Indian Spring	100.0		X	0	75	200	0	75	200	0	75	200	0	75	200	0	75	200		
			SPPLV0002	Pleasant Valley Spring	100.0		X																	
			SPPLV0005	Unnamed spring, downflow from Cane Spring	0.0		X																	
			SPSNV0013	(C-11-14)4bbb-S1	20.0	X																		
			SPSNV0514	BAKE_AQUAINV_054*	4.5		X									X								
			SPSNV0515	BAKE_AQUAINV_055*	4.5		X									X								
			SPSNV0516	BAKE_AQUAINV_056*	4.5		X									X								
			SPSNV0518	BAKE_AQUAINV_058*	4.5		X									X								
			SPSNV0519	BAKE_AQUAINV_059*	44.9		X									X								
			SPSNV0520	BAKE_AQUAINV_060*	0.4		X									X								
			SPSNV0521	BAKE_AQUAINV_061*	4.5		X									X								
			SPSNV0522	BAKE_AQUAINV_062*	4.5		X									X								
			SPSNV0523	BAKE_AQUAINV_063*	4.5		X									X								
			SPSNV0557	BAKE_AQUAINV_097*	0.4		X									X								
			SPSNV0558	BAKE_AQUAINV_098*	4.5		X									X								
			SPSNV0002	Big Springs	4,289.2	X										X								
			SPSNV0613	BUMI_AQUAINV_003*	4.5		X									X								
			SPSNV0004	Caine Spring	5.0	X										X								
			SPSNV0689	Cave Spring	44.9		X									X								
SPSNV0633	CAYO_AQUAINV_020*	0.4		X									X											
SPSNV0012	Cold Spring	0.0	X										X											
SPSNV0028	Cold Spring	125.0	X										X											
SPSNV0006	Coyote Spring	32.0	X										X											
SPSNV0026	Eightmile Spring	5.0	X										X											
SPSNV0014	Foote Reservoir Spring	1,300.0	X										X											
SPSNV0003	Gandy Warm Spring	7,426.2	X										X											
SPSNV0015	Kell Spring	120.0	X										X											
SPSNV0019	Kious Spring	5.5		X									X											
SPSNV0005	Knoll Spring	3.4	X										X											
SPSNV0351	Knoll Springs	13.0	X										X											
SPSNV0634	LEHM_AQUAINV_001	4.5		X									X											
SPSNV0635	LEHM_AQUAINV_003*	4.5		X									X											
SPSNV0636	LEHM_AQUAINV_004*	44.9		X									X											
SPSNV0637	LEHM_AQUAINV_005*	4.5		X									X											
SPSNV0638	LEHM_AQUAINV_006*	4.5		X									X											
SPSNV0639	LEHM_AQUAINV_007*	4.5		X									X											
SPSNV0640	LEHM_AQUAINV_008*	0.4		X									X											
SPSNV0641	LEHM_AQUAINV_009*	44.9		X									X											
SPSNV0642	LEHM_AQUAINV_010*	4.5		X									X											
SPSNV0643	LEHM_AQUAINV_013*	44.9		X									X											
SPSNV0644	LEHM_AQUAINV_015*	44.9		X									X											
SPSNV0645	LEHM_AQUAINV_017*	4.5		X									X											
SPSNV0708	LEHM_AQUAINV_087*	0.4		X									X											
SPSNV0023	Lime Spring	1.6		X									X											
SPSNV0018	Little Red Cedar Spring	2.0		X									X											
SPSNV0029	Miller Spring	206.0	X										X											
SPSNV0056	Needle Point Spring	0.0	X										X											
SPSNV0025	North Knoll Spring	15.0	X										X											
SPSNV0774	Outhouse Spring	500.0	X										X											
SPSNV0022	Partown Spring	1.3		X									X											
SPSNV0001	Rowland Spring	1,088.3		X									X											
SPSNV0027	Spring Creek Spring	1,205.0		X									X											
SPSNV0349	Stateline Spring	3,034.0	X										X											
SPSNV0024	Trough Spring	20.5		X									X											
SPSNV0021	Twin Springs	1,422.6	X										X											

Table F3.3.10-1A Inventoried Springs Located within the 10-foot Drawdown Contour and in areas where there is a high or moderate risk of impacts (Project Specific)

GW Flow System	Basin Number	Basin Name	Spring		Geomorphic Setting (Relative Risk)		No Action		Proposed Action		Alt. A		Alt. B		Alt. C		Alt. D		Alt. E						
			ID	Name	Avg. Flow (GPM)	High (Valley Bottom) (High Risk)	Valley Margin (Mod. Risk)	0	75	200	0	75	200	0	75	200	0	75	200	0	75	200			
																							Years After Full Build Out	Years After Full Build Out	Years After Full Build Out
Meadow Valley Wash			SPSNV0350	Unnamed 2 Spring North of Big	0.0	X																			
			SPSNV0017	Unnamed Spring	2.0	X																			
			SPSNV0062	Unnamed spring	0.0	X																			
			SPSNV0850	Unnamed spring tributary to Snake Creek	0.0		X																		
			SPSNV0851	Unnamed spring, Baker Creek	0.0		X																		
			SPSNV0460	Unnamed spring, Silver Creek	0.0	X																			
			SPSNV0037	Upper spring, Rock Canyon	0.0		X																		
			SPSNV0156	Willow Patch Spring	0.0		X																		
			SPSNV0007	Wilson Hot Spring 1	0.0	X																			
			SPSNV0008	Wilson Hot Spring 2	1.0	X																			
			SPSNV0009	Wilson Hot Spring 3	10.0	X																			
			SPSNV0010	Wilson Hot Spring 4	60.0	X																			
			SPSNV0011	Wilson Hot Spring 5	30.0	X																			
			258	Fish Springs Flat	SPSFF0013	Deadman Spring	52.5	X																	
					SPSFF0014	North Springs	3,140.0	X																	
					SPSFF0012	Walter Spring	150.0	X																	
			183	Lake Valley	SPLAV0047	Brown Springs	0.0	X																	
		SPLAV0036	Middleton Seeps	0.0	X																				
		SPLAV0012	North Big Spring	1,400.0	X																				
		SPLAV0013	Pony Springs	10.0	X																				
		SPLAV0003	Unnamed spring flowing north	430.9	X																				
		SPLAV0004	Unnamed spring flowing south	974.0	X																				
		SPLAV0042	Wambolt Springs	0.0	X																				
201	Spring Valley (201)	SPSVM0011	Springs west of Rock Creek Well No. 1	0.0	X																				
		SPSVM0095	Springs, lower Spring Valley	0.0	X																				
		SPSVM0049	Unnamed Spring	0.0	X																				
		SPSVM0050	Unnamed Spring	0.0	X																				
		SPSVM0077	Unnamed Spring	0.0	X																				
		SPSVM0091	Unnamed Spring	0.0	X																				
202	Patterson Valley	SPPTV0006	McDermitt Spring	0.0	X																				
198	Diy Valley	SPDRV0012	Deimues Springs	0.0	X																				
203	Panaca Valley	SPPNV0002	Bennett Springs	16.2	X																				
		SPPNV0001	Panaca Springs	1,256.4	X																				
204	Clover Valley	SPCLV0016	Cave Spring	0.0	X																				
		SPCLV0018	Mathews Spring	0.0	X																				
		SPCLV0009	North Spring	0.0	X																				
205	Lower Meadow Valley Wash	SPLMW0001	Kershaw Ryan State Park Springs	1.3	X																				
		SPLMW0004	Kershaw Ryan State Park Springs	0.0	X																				
		SPLMW0053	Meadow Valley Wash Spring	0.0	X																				
		SPLMW0054	Unnamed Spring adjacent to road	0.0	X																				
212	Las Vegas Valley	SPLVW0047	Gass Spring	0.0	X																				
		SPLVW0028	nr. Corn Creek Spring	0.5	X																				
		SPLVW0062	Quail Spring	0.0	X																				
		SPLVW0091	White Spot Spring	0.0	X																				
Total					170		81	6	12	20	3	44	57	1	29	46	1	19	26	1	13	31	1	19	30

Table F3.3.10-1B Inventoried Springs Located within the 10-foot Drawdown Contour and in areas where there is a high or moderate risk of impacts (Cumulative)

GW Flow System	Basin Number	Basin Name	Spring		Avg. Flow (GPM)	Geomorphic Setting (Relative Risk)		No Action		Proposed Action		Alt. A		Alt. B		Alt. C		Alt. D		Alt. E					
			ID	Name		High (Valley Bottom (High Risk))	Valley Margin (Mod. Risk)	0	75	200	0	75	200	0	75	200	0	75	200	0	75	200	0	75	200
								Out	Full Build	Out	Full Build	Out	Full Build	Out	Full Build	Out	Full Build	Out	Full Build	Out	Full Build	Out	Full Build	Out	
White River	207	White River Valley	SPWRV0002	Arnoldson Spring	1,608.4	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
			SPWRV0011	Butterfield Spring	1,225.0	X																			
			SPWRV0204	Camp Spring	0.0	X				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			SPWRV0003	Cold Spring	581.6	X				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			SPWRV0015	Douglas Spring	122.0	X																			
			SPWRV0025	Egan Spring	5.0	X																			
			SPWRV0018	Emigrant Springs	796.7	X																			
			SPWRV0171	Emigrant Springs	0.0	X																			
			SPWRV0010	Flag Springs 1	1,018.9	X																			
			SPWRV0009	Flag Springs 2	1,287.0	X																			
			SPWRV0008	Flag Springs 3	969.3	X																			
			SPWRV0013	Hardy Spring NW	4.9	X																			
			SPWRV0012	Hardy Springs	199.9	X																			
			SPWRV0001	Hot Creek Spring	5,031.5	X																			
			SPWRV0023	Indian Ranch Spring	236.4	X																			
			SPWRV0024	Jacob Spring	175.0	X																			
			SPWRV0005	Lund Spring	3,594.0	X																			
			SPWRV0017	Moon River Spring	1,706.7	X																			
			SPWRV0006	Moorman Spring	405.1	X																			
			SPWRV0014	Nicholas Spring	1,185.4	X																			
SPWRV0004	Preston Big Spring	3,572.0	X																						
SPWRV0092	Ruppas Boghole	0.0	X																						
SPWRV0067	Silver Springs	0.0	X																						
SPWRV0022	Tin Can / McQuinity Spring	105.1	X																						
SPWRV0157	Unnamed Spring, West of Hwy 6	0.0	X																						
SPWRV0020	Warm Spring	92.3	X																						
SPWRV0016	Williams Hot Spring	71.6	X																						
180	Cave Valley	SPCAV0001	Cave Spring	211.4	X																				
		SPCAV0039	Unnamed springs, Parker Station	0.0	X																				
172	Garden Valley	SPGDV0029	Unnamed springs, south of Cherry Creek	0.0																					
		SPPAV0005	Ash Springs	6,909.0	X																				
209	Pahranaagat Valley	SPPAV0006	Brownie Spring	224.0	X																				
		SPPAV0007	Cottonwood Spring	1,760.2	X																				
		SPPAV0004	Crystal Springs	4,235.4	X																				
		SPPAV0001	Hiko Spring	2,734.7	X																				
		SPPAV0021	Hoyt Spring	0.0	X																				
		SPPAV0002	Solar Panel Spring	0.3	X																				
210	Coyote Spring Valley	SPCSV0002	Solar Panel Spring	0.3	X																				
		SPCSV0007	Coyote Spring	0.0	X																				
219	Muddy River Springs Area	SPMR S0020	100 m downstream from Muddy Spring (recollected 5/29/92)	0.0	X																				
		SPMR S0017	Apcar Springs (Moapa)	264.2	X																				
		SPMR S0004	Baldwin Spring	1,065.3	X																				
		SPMR S0027	Cardy Lamb Spring	0.0	X																				
		SPMR S0006	Iverson Flume	3,911.9	X																				
		SPMR S0018	Jackass Spring	0.5	X																				
		SPMR S0003	Jones Spring	455.2	X																				
		SPMR S0016	M-10	277.8	X																				
SPMR S0007	M-11	574.9	X																						
SPMR S0008	M-12	110.1	X																						

Table F3.3.10-1B Inventoried Springs Located within the 10-foot Drawdown Contour and in areas where there is a high or moderate risk of impacts (Cumulative)

GW Flow System	Basin Number	Basin Name	Spring		Geomorphic Setting (Relative Risk)		No Action		Proposed Action		Alt. A		Alt. B		Alt. C		Alt. D		Alt. E		
			ID	Name	Avg. Flow (GPM)	High (Valley Bottom (High Risk))	Valley Margin (Mod. Risk)	Years After Full Build	Out	Years After Full Build	Out	Years After Full Build	Out	Years After Full Build	Out	Years After Full Build	Out	Years After Full Build	Out	Years After Full Build	Out
								0	75	200	0	75	200	0	75	200	0	75	200	0	75
			SPMRS0009	M-13	287.3	X															
			SPMRS0010	M-15	702.3	X															
			SPMRS0011	M-16	132.9	X															
			SPMRS0012	M-19	413.7	X															
			SPMRS0013	M-20	362.6	X															
			SPMRS0005	Muddy Spring	3,148.4	X															
			SPMRS0001	Paderson East Spring	90.5	X															
			SPMRS0002	Paderson Spring	89.8	X															
			SPMRS0024	Sada Spring System	0.0	X															
			SPMRS0014	Warm Springs East	1,000.3	X															
			SPMRS0015	Warm Springs West	2,430.9	X															
	220	Lower Moapa Valley	SPLMV0001	Magnesite Spring	0.3																
		Black Mountains Area	SPBMA0003	Bitter Spring	2.6	X															
	215		SPBMA0002	Blue Point Spring	223.4	X															
			SPBMA0013	Corral Spring	0.0	X															
			SPBMA0009	East of Blue Point Spring	0.0	X															
			SPBMA0004	Lower Valley of Fire Wash Spring	5.3	X															
			SPBMA0001	Rogers Spring	771.0	X															
			SPBMA0014	Scirpus Spring	0.0	X															
			SPBMA0006	Southeast of Rogers Spring	5.3	X															
			SPBMA0005	Upper Valley of Fire Wash Spring	0.3	X															
	179	Steptoe Valley	SPSTV0018	Archie Spring	4.5																
			SPSTV0016	Becky Springs	9.0	X															
			SPSTV0037	Bennett Spring	0.0	X															
			SPSTV0037	Borchert Spring	609.5	X															
			SPSTV0033	Campbells Embayment Spring	2,745.7	X															
			SPSTV0003	Cherry Creek Hot Springs	33.7	X															
			SPSTV0006	Cold Spring	0.0	X															
			SPSTV0028	Collar and Elbow Spring	11.3	X															
			SPSTV0026	Comins Lake Spring	334.3	X															
			SPSTV0004	Cow Trim Spring	0.0	X															
			SPSTV0036	Currie Gardens	225.0	X															
			SPSTV0030	Currie Springs	2,180.7	X															
			SPSTV0035	Egan Creek Springs	803.3	X															
			SPSTV0558	Flat Spring	0.0	X															
			SPSTV1010	Goat Spring	0.0	X															
			SPSTV0007	Indian Ranch Spring	215.5	X															
			SPSTV0041	Lackawanna Springs	134.6	X															
			SPSTV0045	Lambert Ranch Springs	4.5	X															
			SPSTV0023	Lower Schellbourne Cold Spring	100.0	X															
			SPSTV0042	Lower Schellbourne Pass Spring	314.2	X															
			SPSTV0040	Lower Schellbourne Warm Spring	450.0	X															
			SPSTV0015	Lower Spring	4.5	X															
			SPSTV0002	McGill Spring	4,782.5	X															
			SPSTV0005	Monte Neva Hot Springs	648.6	X															
			SPSTV0034	Mustang Springs	4.5	X															
			SPSTV0027	Nelson Spring	973.2	X															
			SPSTV0032	Ninemile Springs	10.0	X															
			SPSTV0029	Schoolhouse Spring	450.0	X															
			SPSTV0044	Shallenberger Spring	450.0	X															

Table F3.3.10-1B Inventoried Springs Located within the 10-foot Drawdown Contour and in areas where there is a high or moderate risk of impacts (Cumulative)

GW Flow System	Basin Number	Basin Name	Spring		Geomorphic Setting (Relative Risk)		No Action		Proposed Action		Alt. A		Alt. B		Alt. C		Alt. D		Alt. E								
			ID	Name	Avg. Flow (GPM)	High (Valley Bottom (High Risk))	Valley Margin (Mod. Risk)	Years After Full Build	Out	Years After Full Build	Out	Years After Full Build	Out	Years After Full Build	Out	Years After Full Build	Out	Years After Full Build	Out	Years After Full Build	Out	Years After Full Build	Out				
								0	75	200	0	75	200	0	75	200	0	75	200	0	75	200	0	75	200		
Salt Lake Desert	178B	Butte Valley (Southern Part)	SPSTV0031	Twin Springs	661.0	X																					
			SPSTV0776	Twin Springs	0.0	X																					
			SPSTV0256	Unnamed Spring, northwest of Clark Spring	0.0	X																					
			SPSTV0176	Unnamed Spring, tributary to Schell Creek	0.0		X																				
			SPSTV0700	Unnamed Springs, East Creek	0.0		X																				
			SPSTV0260	Unnamed Springs, north of Grass Springs	0.0	X																					
			SPSTV0858	Unnamed Springs, south of Currie	0.0	X																					
			SPSTV0484	Williams Creek Spring	0.0		X																				
			SPSTV0010	Willow Creek Springs	623.8																						
			SPSTV0043	Willow Creek Springs	685.0		X																				
			SPBV0005	Gulch Spring	20.0		X																				
			SPBV0006	Owens Springs	162.2	X																					
			SPBV0008	Stratton Springs	350.0	X																					
			SPBV0007	Twin Springs	25.0	X																					
			SPHAV0002	South Little Spring (North)	0.0	X					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
			SPHAV0001	The Troughs Outlet	1.0		X				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
			SPSV00012	Blind Spring	0.0	X																					
SPSV00017	Cleveland Ranch (South), Unnamed Spring	0.0	X																								
SPSV00018	Four Wheel Drive Spring	16.0	X					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
SPSV00019	Indian Springs	0.0		X				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
SPSV00015	Indian Springs East	11.2		X				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
SPSV00016	Indian Springs West	0.6		X				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
SPSV00018	Keegan Spring	233.7	X					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
SPSV00510	Keegan Spring Complex (Middle)	0.0	X					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
SPSV00505	Keegan Spring Complex (North)	220.5	X					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
SPSV00506	Keegan Spring Complex (South)	0.0	X					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
SPSV00008	Layton Spring	0.4	X					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
SPSV00594	Layton Spring	0.0	X					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
SPSV00019	Minerva Spring	257.7	X					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
SPSV00502	Minerva Spring Complex (Middle)	124.1	X					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
SPSV00501	Minerva Spring Complex (North)	0.0	X					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
SPSV00004	North Millick Spring	284.0	X					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
SPSV00009	North Spring	5.0	X					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
SPSV00507	Osborne Spring	0.0	X					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
SPSV00014	Osborne Springs	2.7	X					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
SPSV00030	Shoshone Spring	153.0	X					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
SPSV00006	South Bastian Spring	3.1	X					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
SPSV00007	South Bastian Spring 2	0.6	X					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
SPSV00005	South Millick Spring	506.1	X					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
SPSV00021	Stonehouse Spring	0.0	X					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
SPSV00504	Stonehouse Spring Complex	0.0	X					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
SPSV00509	Swallow Spring	317.5	X					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
SPSV00010	The Cedars	37.1	X					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
SPSV00022	The Cedars	4.5	X					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
SPSV00023	Unnamed 5 Spring	0.0	X					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
SPSV00031	Unnamed Spring	5.6	X					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
SPSV00562	Unnamed Springs	0.0	X					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			

Table F3.3.10-1B Inventoried Springs Located within the 10-foot Drawdown Contour and in areas where there is a high or moderate risk of impacts (Cumulative)

GW Flow System	Basin Number	Basin Name	Spring		Geomorphic Setting (Relative Risk)		No Action		Proposed Action		Alt. A		Alt. B		Alt. C		Alt. D		Alt. E			
			ID	Name	Avg. Flow (GPM)	High (Valley Bottom (High Risk))	Valley Margin (Mod. Risk)	Years After Full Build	Out	Years After Full Build	Out	Years After Full Build	Out	Years After Full Build	Out	Years After Full Build	Out	Years After Full Build	Out	Years After Full Build	Out	
			0	75	200	0	75	200	0	75	200	0	75	200	0	75	200	0	75	200	0	75
			SPSV00066	Unnamed springs, 3.2 km north of Minerva	0.0	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X
			SPSV00512	Unnamed springs, east of Cleve Creek	0.8	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X
			SPSV00516	Unnamed Springs, Stonehouse	0.0	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X
			SPSV00503	West Spring Valley Complex # 1	437.9	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X
			SPSV00508	West Spring Valley Complex # 5	755.6	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X
			SPSV00003	Willard Springs	1.5	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X
			SPSV00002	Willow Spring	10.5	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X
	194	Pleasant Valley	SPPLV00001	Indian Spring	100.0			X														
			SPPLV00002	Pleasant Valley Spring	100.0			X														
			SPPLV00005	Unnamed spring, downflow from Cane Spring	0.0			X														
	195	Snake Valley	SPSNV00113	(C-11-14)bbb-S1	20.0	X																
			SPSNV0514	BAKE_AQUAINV_054*	4.5			X														
			SPSNV0515	BAKE_AQUAINV_055*	4.5			X														
			SPSNV0516	BAKE_AQUAINV_056*	4.5			X														
			SPSNV0518	BAKE_AQUAINV_058*	4.5			X														
			SPSNV0519	BAKE_AQUAINV_059*	44.9			X														
			SPSNV0520	BAKE_AQUAINV_060*	0.4			X														
			SPSNV0521	BAKE_AQUAINV_061*	4.5			X														
			SPSNV0522	BAKE_AQUAINV_062*	4.5			X														
			SPSNV0523	BAKE_AQUAINV_063*	4.5			X														
			SPSNV0557	BAKE_AQUAINV_097*	0.4			X														
			SPSNV0558	BAKE_AQUAINV_098*	4.5			X														
			SPSNV00002	Big Springs	4,289.2	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X
			SPSNV0613	BUMI_AQUAINV_003*	4.5			X														
			SPSNV00004	Caine Spring	5.0			X														
			SPSNV0689	Cave Spring	44.9			X														
			SPSNV0633	CAYO_AQUAINV_020*	0.4			X														
			SPSNV0012	Cold Spring	0.0			X														
			SPSNV0028	Cold Spring	125.0	X																
			SPSNV0006	Coyote Spring	32.0	X																
			SPSNV0026	Eighthmile Spring	5.0	X																
			SPSNV0014	Footo Reservoir Spring	1,300.0	X																
			SPSNV0003	Gandy Warm Spring	7,426.2	X																
			SPSNV0015	Kell Spring	120.0	X																
			SPSNV0019	Kious Spring	5.5			X														
			SPSNV0005	Knoll Spring	3.4			X														
			SPSNV0351	Knoll Springs	13.0	X																
			SPSNV0634	LEHM_AQUAINV_001*	4.5			X														
			SPSNV0635	LEHM_AQUAINV_003*	4.5			X														
			SPSNV0636	LEHM_AQUAINV_004*	44.9			X														
			SPSNV0637	LEHM_AQUAINV_005*	4.5			X														
			SPSNV0638	LEHM_AQUAINV_006*	4.5			X														
			SPSNV0639	LEHM_AQUAINV_007*	4.5			X														
			SPSNV0640	LEHM_AQUAINV_008*	0.4			X														
			SPSNV0641	LEHM_AQUAINV_009*	44.9			X														
			SPSNV0642	LEHM_AQUAINV_010*	4.5			X														
			SPSNV0643	LEHM_AQUAINV_013*	44.9			X														
			SPSNV0644	LEHM_AQUAINV_015*	44.9			X														
			SPSNV0645	LEHM_AQUAINV_017*	4.5			X														

Table F3.3.10-1B Inventoried Springs Located within the 10-foot Drawdown Contour and in areas where there is a high or moderate risk of impacts (Cumulative)

GW Flow System	Basin Number	Basin Name	ID	Spring		Geomorphic Setting (Relative Risk)		No Action		Proposed Action		Alt. A		Alt. B		Alt. C		Alt. D		Alt. E			
				Name	Avg. Flow (GPM)	High (Valley Bottom (High Risk))	Valley Margin (Mod. Risk)	Years After Full Build	Out	Years After Full Build	Out	Years After Full Build	Out	Years After Full Build	Out	Years After Full Build	Out	Years After Full Build	Out	Years After Full Build	Out	Years After Full Build	Out
								0	75	200	0	75	200	0	75	200	0	75	200	0	75	200	0
			SPSNV0708	LEHM_AQUAINV_087*	0.4		X																
			SPSNV0023	Lime Spring	1.6		X																
			SPSNV0018	Little Red Cedar Spring	2.0		X																
			SPSNV0029	Miller Spring	206.0	X																	
			SPSNV0056	Needle Point Spring	0.0	X																	
			SPSNV0025	North Knoll Spring	15.0	X																	
			SPSNV0774	Outhouse Spring	500.0	X																	
			SPSNV0022	Partoun Spring	1.3		X																
			SPSNV0001	Rowland Spring	1,088.3		X																
			SPSNV0027	Spring Creek Spring	1,205.0	X																	
			SPSNV0349	Stateline Spring	3,034.0	X																	
			SPSNV0024	Trough Spring	20.5		X																
			SPSNV0021	Twin Springs	1,422.6	X																	
			SPSNV0350	Unnamed 2 Spring North of Big	0.0	X																	
			SPSNV0017	Unnamed Spring	2.0	X																	
			SPSNV0062	Unnamed spring	0.0	X																	
			SPSNV0850	Unnamed spring tributary to Snake Creek	0.0		X																
			SPSNV0851	Unnamed spring, Baker Creek	0.0		X																
			SPSNV0460	Unnamed spring, Silver Creek	0.0	X																	
			SPSNV0037	Upper spring, Rock Canyon	0.0		X																
			SPSNV0156	Willow Patch Spring	0.0		X																
			SPSNV0007	Wilson Hot Spring 1	0.0	X																	
			SPSNV0008	Wilson Hot Spring 2	1.0	X																	
			SPSNV0009	Wilson Hot Spring 3	10.0	X																	
			SPSNV0010	Wilson Hot Spring 4	60.0	X																	
			SPSNV0011	Wilson Hot Spring 5	30.0	X																	
	258	Fish Springs Flat	SPFSF0013	Deachman Spring	52.5	X																	
			SPFSF0014	North Springs	3,140.0	X																	
			SPFSF0012	Walter Springs	150.0	X																	
	183	Lake Valley	SPLAV0047	Brown Springs	0.0	X																	
			SPLAV0036	Middleton Seeps	0.0	X																	
			SPLAV0012	North Big Spring	1,400.0	X																	
			SPLAV0013	Pony Springs	10.0	X																	
			SPLAV0003	Unnamed spring flowing north	430.9	X																	
			SPLAV0004	Unnamed spring flowing south	974.0	X																	
			SPLAV0042	Wambolt Springs	0.0	X																	
	201	Spring Valley (201)	SPSVM0011	Springs west of Rock Creek Well No. 1	0.0	X																	
			SPSVM0095	Springs, lower Spring Valley	0.0	X																	
			SPSVM0077	Unnamed Spring	0.0	X																	
			SPSVM0091	Unnamed Spring	0.0	X																	
			SPSVM0050	Unnamed Spring	0.0	X																	
			SPSVM0049	Unnamed Spring	0.0	X																	
	202	Patterson Valley	SPPTV0006	McDermitt Spring	0.0	X																	
	198	Dry Valley	SPDRV0012	DeImues Springs	0.0	X																	
	203	Panaca Valley	SPPNV0002	Bennett Springs	16.2	X																	
			SPPNV0001	Panaca Spring	1,256.4	X																	
	204	Clover Valley	SPCLV0016	Cave Spring	0.0	X																	
			SPCLV0018	Matthews Spring	0.0	X																	
			SPCLV0009	North Spring	0.0	X																	

Table F3.3.10-1B Inventoried Springs Located within the 10-foot Drawdown Contour and in areas where there is a high or moderate risk of impacts (Cumulative)

GW Flow System	Basin Number	Basin Name	Spring		Geomorphic Setting (Relative Risk)		No Action		Proposed Action		Alt. A		Alt. B		Alt. C		Alt. D		Alt. E								
			ID	Name	Avg. Flow (GPM)	High (Valley Bottom (High Risk))	Valley Margin (Mod. Risk)	0	75	200	0	75	200	0	75	200	0	75	200	0	75	200					
			Years After Full Build Out	Years After Full Build Out	Years After Full Build Out	Years After Full Build Out	Years After Full Build Out	Years After Full Build Out	Years After Full Build Out	Years After Full Build Out	Years After Full Build Out	Years After Full Build Out	Years After Full Build Out	Years After Full Build Out	Years After Full Build Out	Years After Full Build Out	Years After Full Build Out	Years After Full Build Out	Years After Full Build Out	Years After Full Build Out	Years After Full Build Out	Years After Full Build Out					
Las Vegas	205	Lower Meadow Valley Wash	SPLMW0001	Kershaw Ryan State Park Springs	1.3		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X						
			SPLMW0004	Kershaw Ryan State Park Springs	0.0		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X					
			SPLMW0053	Meadow Valley Wash Spring	0.0	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
			SPLMW0054	Unnamed Spring adjacent to road	0.0	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
			SPLV0047	Gass Spring	0.0		X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
Las Vegas Valley	212	Las Vegas Valley	SPLV0028	nr. Corn Creek Spring	0.5		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X						
			SPLV0062	Quail Spring	0.0		X		X	X	X	X	X	X	X	X	X	X	X	X	X	X					
			SPLV0091	White Spot Spring	0.0		X		X	X	X	X	X	X	X	X	X	X	X	X	X	X					
Total						170	12	19	28	20	65	82	16	53	74	27	77	102	16	42	63	13	34	53	16	42	62