

**2. ANNUAL OWENS VALLEY OPERATIONS PLAN FOR
Runoff Year 2005-06**

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This year's pumping program is consistent with the management strategy of the Water Agreement between the County of Inyo and the City of Los Angeles dated October 18, 1991. As stated in the Water Agreement: *"The overall goal of managing the water resources within Inyo County is to avoid certain described decreases and changes in vegetation and to cause no significant effect on the environment which cannot be acceptably mitigated while providing a reliable supply of water for export to Los Angeles and for use in Inyo County."*

2.1 Owens Valley Runoff Estimate

For the period of April 1, 2005 to March 31, 2006, the forecasted Owens Valley runoff is 527,200 acre-feet, or 128% of normal (Table 1). According to the well ON/OFF provisions of the Water Agreement, approximately 151,000 acre-feet of water (Table 5) are available for groundwater pumping from Owens Valley wellfields.

2.2 Owens Valley Groundwater Production

The LADWP has developed a proposed 2005-2006 Annual Operations Plan based upon the goals and principles of the Water Agreement. The proposed 2005-2006 Annual Operations Plan focuses on avoiding undesirable decreases and changes in vegetation while providing a reliable supply of water for export to Los Angeles and for use in Inyo County. This year due to operation requirements of the LAA, during the first four months (April, May, June, and July) LADWP will be spreading water in the Laws, Big Pine, and alluvial fan near the Independence Wellfield.

LADWP's planned pumping under the terms of the Inyo County/LADWP Water Agreement is similar to the long-term average pumping from Owens Valley since 1971. Figure 1 shows Owens Valley Groundwater Pumping from 1971-72 to the proposed pumping for the 2005-2006 runoff year. In considering the ON/OFF protocols of the Water Agreement which provide for approximately 151,000 acre-feet of groundwater available for pumping this year, and the current condition of water-dependent resources in the Owens Valley, LADWP is planning Owens Valley pumping for the 2005-2006 runoff year of up to 90,000 acre-feet. This is less than 60% of pumping allowed under the ON/OFF provisions of the Green Book.

Planned pumping may be increased to provide freeze protection for the Los Angeles Aqueduct. Historically, freeze protection pumping has occurred only 2 or 3 times in 10 years.

The attached tables provide detailed information on pumping and uses.

Consistent with the goals of the Water Agreement, pumping in all areas is within the allowable limits and consistent with the groundwater mining provisions of the Green Book. Table 2 shows the latest update of the mining calculations based on the

procedures described in the Green Book. Inyo County and LADWP are discussing review and update of the Green Book procedures for preparing and updating the mining table.

Table 3 details planned pumping for the 2005-2006 runoff year on a month-to-month basis for each wellfield. Pumping for town domestic use is included in that distribution.

Table 4 lists the April 2005 soil water status and projected soil water for each monitoring site using the methodology described in the Green Book.

Table 5 lists monitoring sites, production wells associated with each monitoring site, available production capacity according to the ON/OFF status as described in the Water Agreement, and proposed pumping from each wellfield in the Owens Valley. Since October 2004 sites LA1, LA2, BP3, and TS3 have changed from OFF to ON status.

The following is a discussion of the proposed pumping program by wellfield. Figures 2 through 8 detail LADWP's Owens Valley wellfields. The total planned Owens Valley groundwater pumping for the 2005-2006 runoff year is 90,000 acre-feet. This number is consistent with the provisions of the Water Agreement.

2.2.1 Laws Wellfield (Figure 2)

Monitoring sites L1 and L2 are in ON status. Production wells controlled by these monitoring sites have an available production capacity of 24,180 acre-feet. Wells linked to monitoring site L5 have a capacity of 9,410 acre-feet. Exempt wells within the Laws Wellfield have a capacity of 2,320 acre-feet. Total capacity in the Laws Wellfield is 35,910 acre-feet available based on ON/OFF status. Minimum pumping in this wellfield is 6,350 acre-feet to supply the irrigated land in the Laws Wellfield if water diverted from the Owens River is not available. When Owens River water is diverted in the McNally canals and is available, the minimum pumping for town supply and irrigation is approximating 1,340 acre-feet. As 2005-2006 is forecasted to be a high runoff year and as a result of operational requirements of LAA, LADWP will be spreading Owens River water in the Laws Wellfield through the Upper and Lower McNally canals. Depending on the amount of spreading, LADWP may pump some the wells associated with Monitoring sites L1 and L2 in the second half of the year. Therefore, LADWP is planning to pump 12,350 acre-feet of groundwater from the Laws Wellfield for the 2005-2006 runoff year.

2.2.2 Bishop Wellfield (Figure 3)

Pumping from the Bishop Wellfield is governed by the provisions of the Hillside Decree. Provisions of the Hillside Decree allow LADWP to pump an amount equal to the water use on LADWP-owned land within the Bishop Cone area. LADWP operations in the Bishop Cone area will be in accordance with the provisions of the Hillside Decree. Total current available pumping capacity in the Bishop Wellfield is 12,000 acre-feet. The planned pumping from the Bishop Wellfield in 2005-2006 runoff year is 12,000 acre-feet.

Table 1

2005 RUNOFF FORECAST
April 1, 2005

APRIL THROUGH SEPTEMBER RUNOFF

	MOST PROBABLE VALUE		REASONABLE MAXIMUM	REASONABLE MINIMUM	LONG-TERM MEAN (1951 - 2000)
	<u>(Acre-feet)</u>	<u>(% of Avg.)</u>	<u>(% of Avg.)</u>	<u>(% of Avg.)</u>	<u>(Acre-feet)</u>
MONO BASIN:	142,300	136%	149%	124%	104,277
OWENS VALLEY:	407,600	134%	147%	121%	305,167

APRIL THROUGH MARCH RUNOFF

	MOST PROBABLE VALUE		REASONABLE MAXIMUM	REASONABLE MINIMUM	LONG-TERM MEAN (1951 - 2000)
	<u>(Acre-feet)</u>	<u>(% of Avg.)</u>	<u>(% of Avg.)</u>	<u>(% of Avg.)</u>	<u>(Acre-feet)</u>
MONO BASIN:	161,500	132%	145%	119%	122,557
OWENS VALLEY:	527,200	128%	140%	115%	413,210

MOST PROBABLE - That runoff which is expected if median precipitation occurs after the forecast date.

REASONABLE MAXIMUM - That runoff which is expected to occur if precipitation subsequent to the forecast is equal to the amount which is exceeded on the average once in 10 years.

REASONABLE MINIMUM - That runoff which is expected to occur if precipitation subsequent to the forecast is equal to the amount which is exceeded on the average 9 out of 10 years.

Table 2 - DRAFT Summary of Estimated Recharge and Historical Pumping in AF for Water Year 1986-2005

Water Year	LAWS		BISHOP		BIG PINE		TABOOSE-THIBAUT		IND-SYM-BAIRS		LONE PINE		OWENS VALLEY	
	Recharge	Pumping (c)	Recharge	Pumping	Recharge	Pumping	Recharge	Pumping	Recharge	Pumping	Recharge	Pumping	Recharge	Pumping
1986	31,217	9,953	60,341	1,809	47,997	25,054	56,535	27,325	58,489	7,842	21,221	2,439	275,800	74,422
1987	12,405	25,779	38,443	9,558	22,816	44,991	29,544	53,906	29,536	34,254	12,193	1,956	144,936	170,444
1988	12,539	38,025	36,728	10,900	20,629	40,830	25,906	61,545	26,341	43,234	11,295	1,655	133,439	196,189
1989	12,776	38,167	36,679	11,961	19,966	35,915	23,439	54,284	26,018	34,728	11,104	1,668	129,982	176,723
1990	11,580	27,988	34,198	11,432	17,604	29,666	19,777	33,480	22,544	20,124	9,989	1,658	115,692	124,348
1991	11,132	13,691	34,868	11,519	18,729	21,168	21,087	29,136	24,965	10,390	10,408	1,303	121,188	87,207
1992	10,877	8,907	34,915	11,326	18,596	24,345	20,829	23,761	24,348	14,154	10,533	1,626	120,098	84,119
1993	19,796	7,541	44,671	8,404	27,785	22,627	35,379	19,424	38,893	11,689	15,622	1,519	182,146	71,204
1994	12,044	21,206	36,019	10,193	19,634	24,962	22,288	23,557	26,226	14,878	11,667	1,281	127,879	96,077
1995	28,115	7,053	53,861	4,799	38,758	21,970	46,375	17,121	52,809	12,631	22,296	1,037	242,214	64,611
1996	12,606	11,535	50,980	9,153	33,432	24,331	42,408	19,906	48,837	12,382	19,870	1,106	208,134	78,413
1997	15,255	8,349	50,176	9,606	33,678	24,002	43,149	21,774	49,854	9,461	20,075	1,128	212,186	74,320
1998	28,213	470	53,999	7,159	40,270	23,729	47,156	16,496	54,102	7,946	20,455	1,365	244,195	57,165
1999	18,546	1,697	42,388	8,672	28,013	21,832	32,426	16,700	38,600	8,424	15,481	2,141	175,454	59,466
2000	11,102	3,974	39,539	10,804	23,213	20,212	27,567	23,143	34,068	8,497	14,344	1,036	149,834	67,666
2001	12,259	2,295	38,772	10,176	22,695	26,785	27,960	17,247	31,299	8,685	13,520	1,942	146,504	67,130
2002	11,202	3,480	35,740	10,839	19,920	26,885	22,807	25,288	26,806	10,279	12,216	1,345	128,691	78,116
2003	11,454	5,786	38,486	11,407	21,883	25,885	26,166	27,387	30,341	14,281	13,088	1,179	141,418	85,925
2004	11,138	7,412	37,149	11,777	21,126	26,149	23,292	25,159	26,129	15,750	9,697	1,118	128,531	87,365
2005 (a)	17,658	176	49,754	2,237	34,553	9,294	42,372	11,561	44,979	11,207	16,649	199	205,966	34,674
(b)TOTAL	311,916	243,484	847,705	183,731	531,297	520,632	636,462	548,200	715,185	310,836	291,722	28,701	3,334,288	1,835,584
Estimated Apr-Sep Pumping Limit		68,432		663,974		10,665		88,262		404,349		263,021		1,498,704

(a) Estimated Recharge for the 2005 Water Year; Approximate Pumping for First Half of Water year 2005 (Oct-Mar).

(b) Estimated 20 Year Total for Recharge; actual 19.5 Year Total for Pumping.

(c) Estimated pumping is from LADWP database.

Table 3 - Projected Monthly Owens Valley Groundwater Pumping [ac-ft] for Runoff Year 2005-2006

Month	Laws	Bishop	Big Pine	Taboose- Aberdeen	Thibaut- Sawmill	Indep.-Oak	Symmes- Shepherd	Bairs- Georges	Lone Pine	TOTAL
April	250	1,600	1,600	35	1,050	900	200	150	150	5,935
May	400	1,600	1,700	35	1,050	900	200	0	490	6,375
June	400	1,600	1,700	35	1,050	900	200	330	150	6,365
July	1,800	1,600	1,800	35	1,050	900	200	330	200	7,915
August	1,700	1,600	1,800	1,030	1,050	900	200	330	200	8,810
September	1,400	1,600	1,600	1,030	1,050	900	200	0	150	7,930
October	1,200	400	2,170	1,030	1,210	1,000	560	0	50	7,620
November	1,100	400	2,070	1,030	1,210	1,000	560	330	50	7,750
December	1,025	400	2,170	1,030	1,210	1,000	560	330	50	7,775
January	1,025	400	2,170	1,030	1,210	1,000	560	330	50	7,775
February	1,025	400	2,070	1,030	1,210	1,000	560	330	50	7,675
March	1,025	400	2,170	1,030	1,210	1,300	560	330	50	8,075
TOTAL	12,350	12,000	23,020	8,380	13,560	11,700	4,560	2,790	1,640	90,000

Figure 1 – Owens Valley Groundwater Pumping

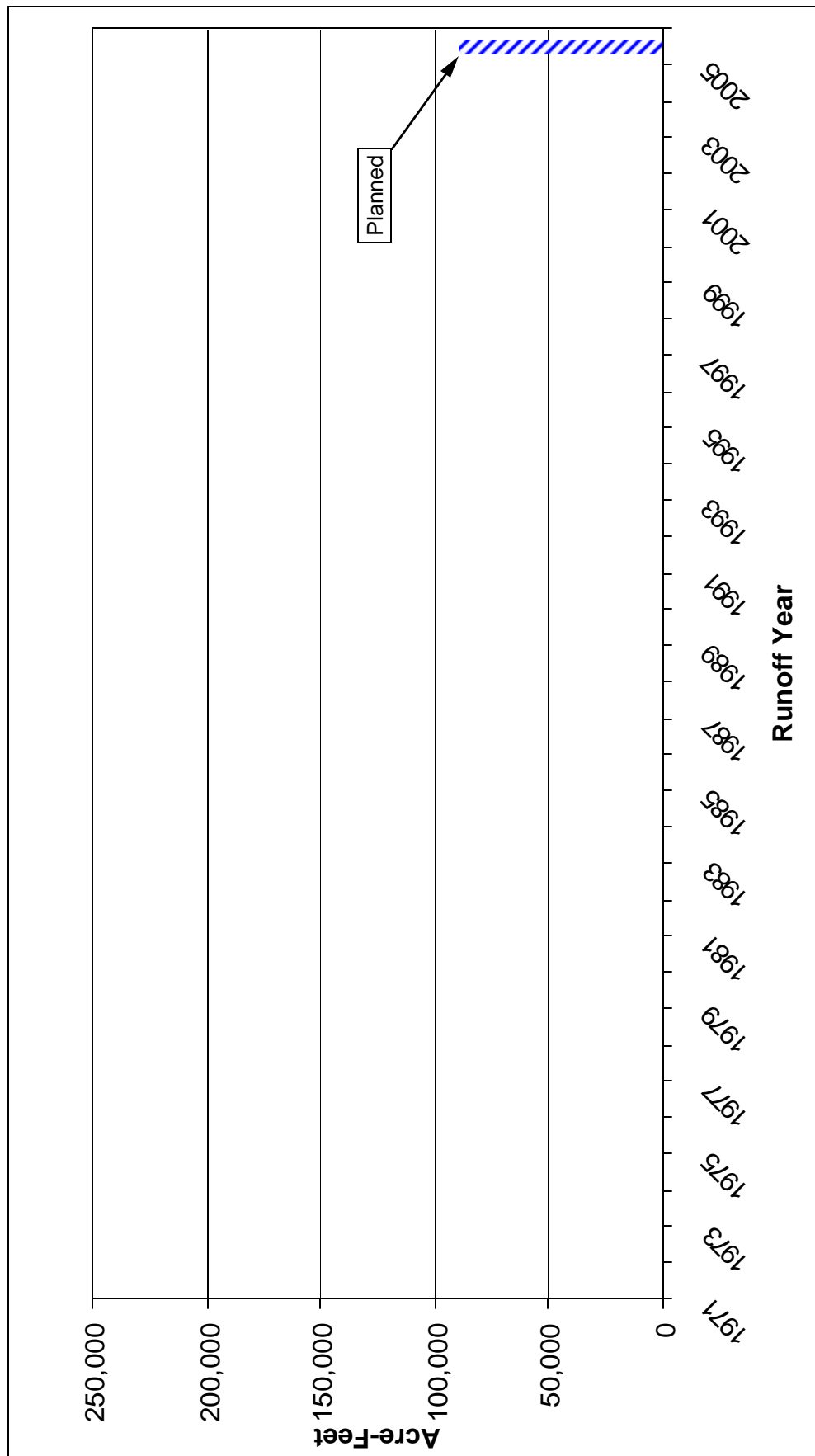


Table 4 - Soil/ Vegetation Water Balance Calculations

Site	Oct 2004 Soil AWC (cm)	50% Annual Precip. (cm)	Projected Soil AWC (cm)	Oct. 2004 Veg. Water Req./ Water Req. for Well Turn-On (cm)	Oct 2004 Status	April 2005 Soil AWC (cm)	April 2005 Status	Soil AWC Req. for Well Turn-On (cm)
L1	1.6	NA	1.6	9.6/9.6	OFF	12.5	ON	na
L2	3.4	7.9	11.3	6.7/NA	ON	14.0	ON	na
L3	8.9	NA	8.9	11.7/26.3	OFF	25.5	OFF	26.3, OFF 10-99
BP1	0.3	NA	0.3	5/22.9*	OFF	7.9	OFF	22.9*, OFF 10-97
BP2	0.3	NA	0.3	17.7/28.4	OFF	9.9	OFF	28.4, OFF 7-98
BP3	1.7	NA	1.7	11.5/11.5	OFF	17.7	ON	NA
BP4	29.6	8.2	37.8	10.8/NA	ON	40.5	ON	NA
TA3	3.5	NA	3.5	25.6/25.9	OFF	17.0	OFF	25.9, OFF 7-98
TA4	7.1	NA	7.1	19.4/23.2	OFF	18.5	OFF	23.2, OFF 10-98
TA5	18.0	8.2	26.2	2.4/NA	ON	24.6	ON	NA
TA6	5.0	NA	5.0	33.3/26.8*	OFF	20.0	OFF	26.8*, OFF 7-96
TS1	0.9	NA	0.9	19.8/20.4*	OFF	11.2	OFF	20.4*, OFF 10-96
TS2	4.3	NA	4.3	11.3/19.5	OFF	17.4	OFF	19.5, OFF 7-98
TS3	13.8	7.3	21.1	31.1/31.1	OFF	29.7	ON	NA
TS4	25.5	NA	25.5	67.1/47.9	OFF	45.7	OFF	47.9, OFF 10-03
IO1	13.6	NA	13.6	25.5/42.2	OFF	27.3	OFF	42.2, OFF 10-98
IO2	3.0	NA	3.0	4.7/11.1	OFF	9.8	ON	NA
SS1	20.8	6.5	27.3	27.2/NA	ON	27.9	ON	NA
SS2	2.2	NA	2.2	6.9/13.4	OFF	7.6	OFF	13.4, OFF 7-03
SS3	16.5	NA	16.5	16.4/37.7	OFF	22.7	OFF	37.7, OFF 10-03
SS4	9.7	6.6	16.3	5.6/NA	ON	13.2	ON	NA
BG2	25.7	6.6	32.3	4.7/NA	ON	30.4	ON	NA

* These values of soil water required for well turn-on were derived using calculations based on percent cover that were routinely performed in the past. The values have not been updated to conform to the Greenbook equations in section III.D.2, p. 57-59.

Table 5 - Available Pumping Capacity According to Monitoring Sites with ON Status and Planned Pumping for Runoff Year 2005-2006

Wellfield	Monitoring Site	Associated production wells	Available Capacity (AF)	Proposed Pumping (AF)
LAWS	L1	247, 248, 249, 398	12,670	
	L2	236, 239, 243, 244	11,512	
	L5*	245, 387, 388	9,412	
	Exempt	354, 365, 413	2,317	
	Wellfield Pumpage		35,911	12,350
Bishop	All wells	140, 207, 238, 371, 406, 407, 408, 412	12,000	
	Wellfield Pumpage		12,000	12,000
Big Pine	BP3	222, 223, 231, 232	4,851	
	BP4	331	7,530	
	Exempt	218, 219, 330, 332, 341, 352, 415	25,486	
	Wellfield Pumpage		37,867	23,020
Taboose Aberdeen	TA5	349	10,570	
	Exempt	118	1,810	
	Wellfield Pumpage		12,380	8,380
Thibaut Sawmill	TS3	103, 104, 382EM	2,968	
	Exempt	351, 356	12,598	
	Wellfield Pumpage		15,566	13,560
Indep. - Oak	IO2	63	2,100	
	Exempt	59, 60, 61, 65, 357, 383EM, 384EM, 401	13,973	
	Wellfield Pumpage		16,073	11,700
Symmes Shepherd	SS1	69, 392, 393	7,964	
	SS4	75, 345	6,009	
	Exempt	402EM	1,230	
	Wellfield Pumpage		15,203	4,560
Bairs Georges	BG2	348, 403	2,896	
	Exempt	343	1,158	
	Wellfield Pumpage		4,054	2,790
Lone Pine	Exempt	344, 346, 390	1,231	
	Other	416	365	
	Wellfield Pumpage		1,596	1,640
Owens Valley Total			150,650	90,000

* Monitoring site has yet to be located.

Figure 2

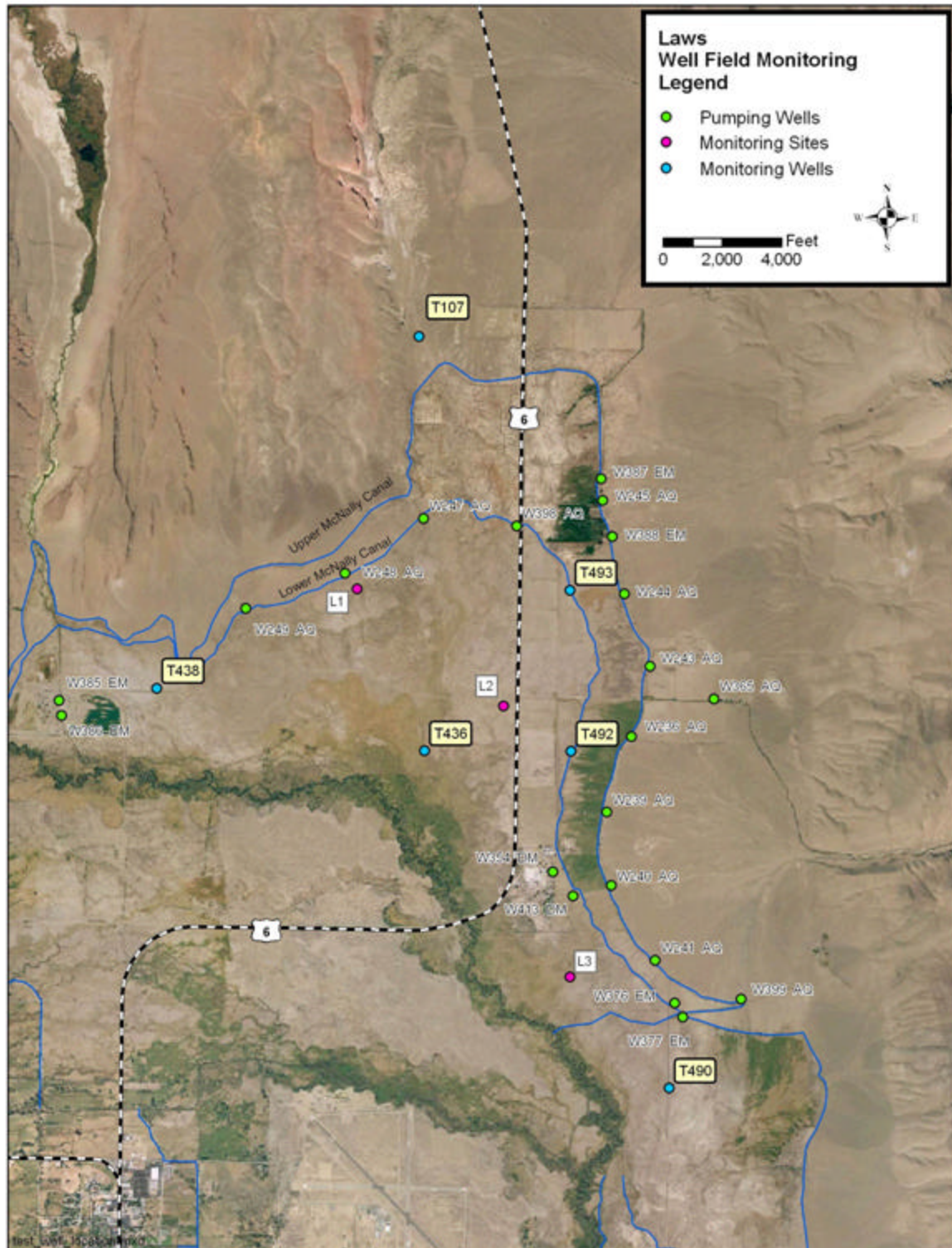
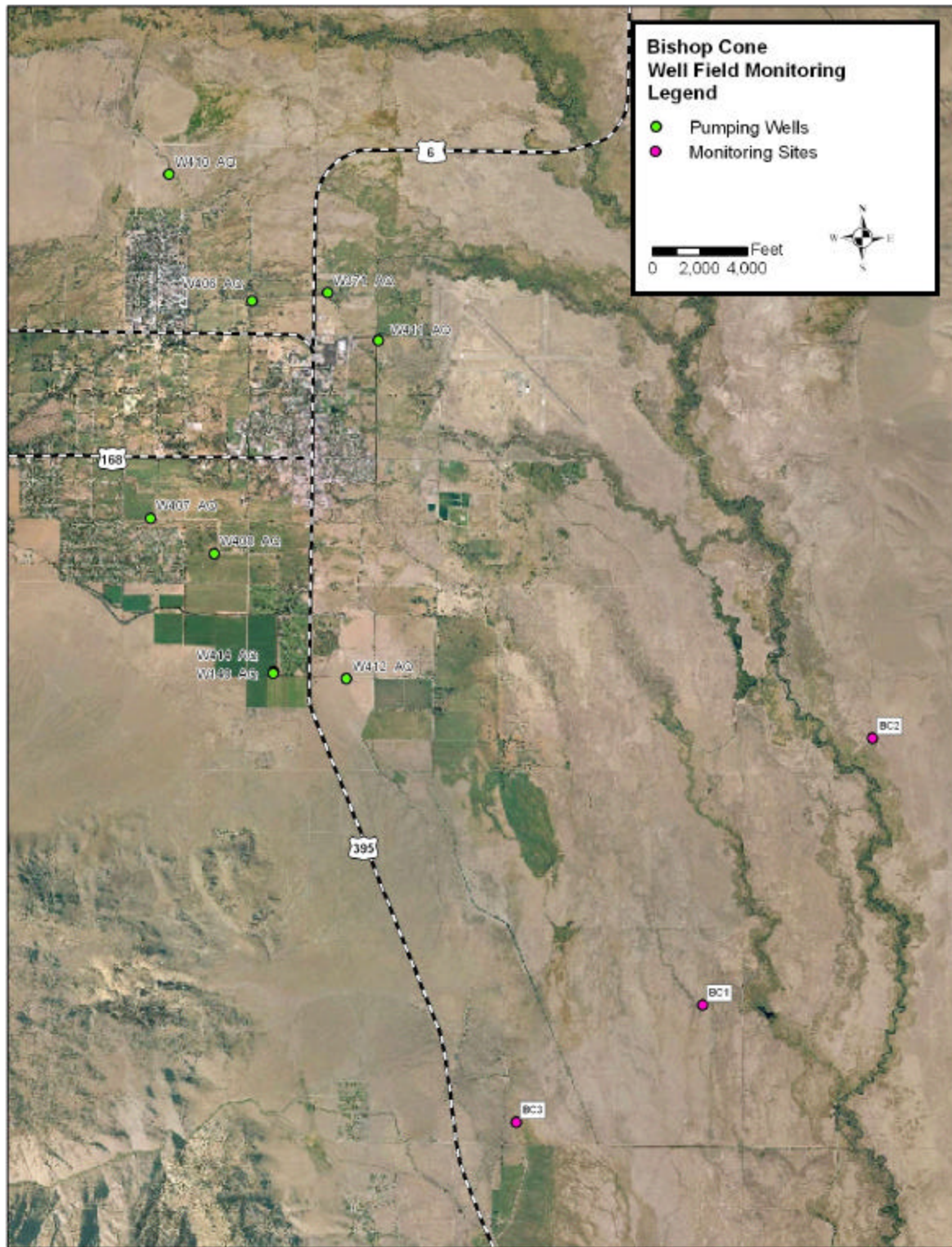


Figure 3



2.2.3 Big Pine Wellfield (Figure 4)

Monitoring sites BP3 and BP4 are in ON status. Production wells controlled by BP3 have an available production capacity of 4,850 acre-feet. The production well W331, controlled by monitoring site BP4, has a production capacity of 7,530 acre-feet but has high sulfide levels that make it unsuitable for pumping. Exempt wells W218, W219, town supply, and Fish Hatchery wells in the Big Pine Wellfield have a capacity of 25,490 acre-feet. A total capacity of 30,340 acre-feet is available in the Big Pine Wellfield based on ON/OFF status. During the 2005-06 runoff year a limitation of the pumping will be the mining limit as described in the Green Book. Based on the preliminary calculations shown in Table 2, the pumping limit for April through September of 2005 is 10,665 acre-feet. As 2005-06 is forecasted to be a high runoff year LADWP expects to spread water from Big Pine Canal in the Big Pine Wellfield as runoff conditions allows. Required pumping from the Big Pine Wellfield includes supply to the Fish Spring Fish Hatchery and the town water system on a year-round basis. Exempt wells and wells associated with monitoring site BP3 may be operated in the second half of year. The minimum required pumping in this wellfield is 20,200 acre-feet. LADWP is planning to pump 23,020 acre-feet from the Big Pine Wellfield.

2.2.4 Taboose-Aberdeen Wellfield (Figure 5)

Monitoring site TA5 is in ON status. The production well, W349, controlled by this monitoring site has an available production capacity of about 10,570 acre-feet. Exempt Well 118 in the Taboose-Aberdeen Wellfield has a capacity of 1,810 acre-feet. A total capacity of 12,380 acre-feet is available in the Taboose-Aberdeen Wellfield based on the ON/OFF status. During the first three months of the year Well 349 is going to be on a timer to maintain the water level in a pond adjacent to the well. LADWP plans to pump 8,380 acre-feet during the 2005-2006 runoff year in the Taboose-Aberdeen Wellfield.

2.2.5 Thibaut-Sawmill Wellfield (Figure 6)

Monitoring site TS3 is in ON status. Production wells controlled by this monitoring site have an available production capacity of 2,970 acre-feet. Exempt Wells 351 and 356 supplying Blackrock Fish Hatchery have a capacity of 13,000 acre-feet and 8,110 acre-feet, respectively. A total capacity of 15,970 acre-feet is available in the Thibaut-Sawmill Wellfield based on the ON/OFF status. Minimum pumping in this wellfield is 12,600 acre-feet. LADWP plans to pump 13,560 acre-feet in the Thibaut-Sawmill Wellfield during 2005-2006 runoff year.

2.2.6 Independence-Oak Wellfield (Figure 6)

Pumping from this wellfield will include exempt wells, generally for E/M projects and the town water supply. Vegetation monitoring site IO2 has ON status with a total capacity of 2,100 acre-feet. Total available capacity in Independence-Oak Wellfield is 18,000 acre-feet. Minimum pumping in this wellfield is 6,300 acre-feet. Planned pumping during the 2005-2006 runoff year in the Independence-Oak Wellfield is 11,700 acre-feet.

Figure 4

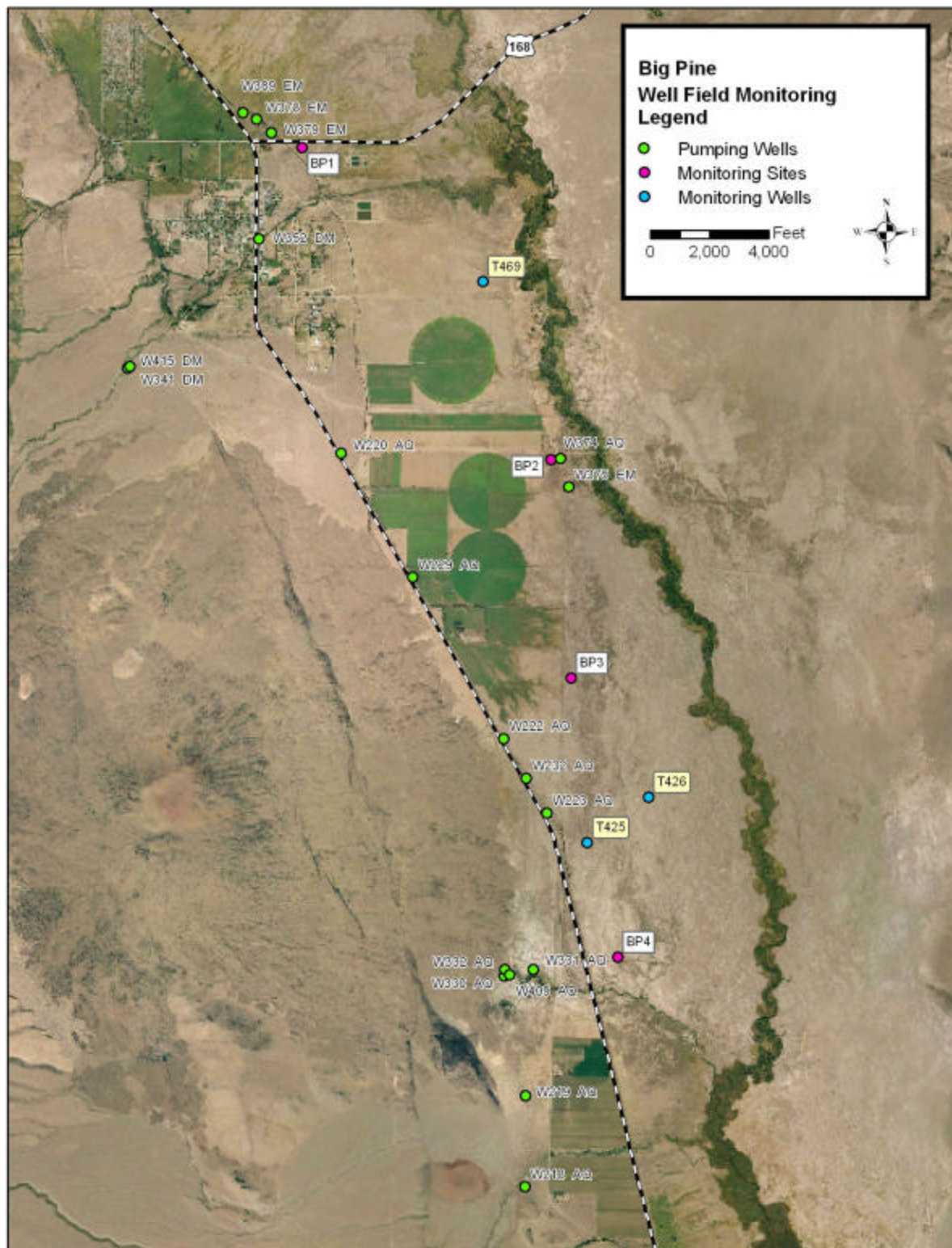


Figure 5

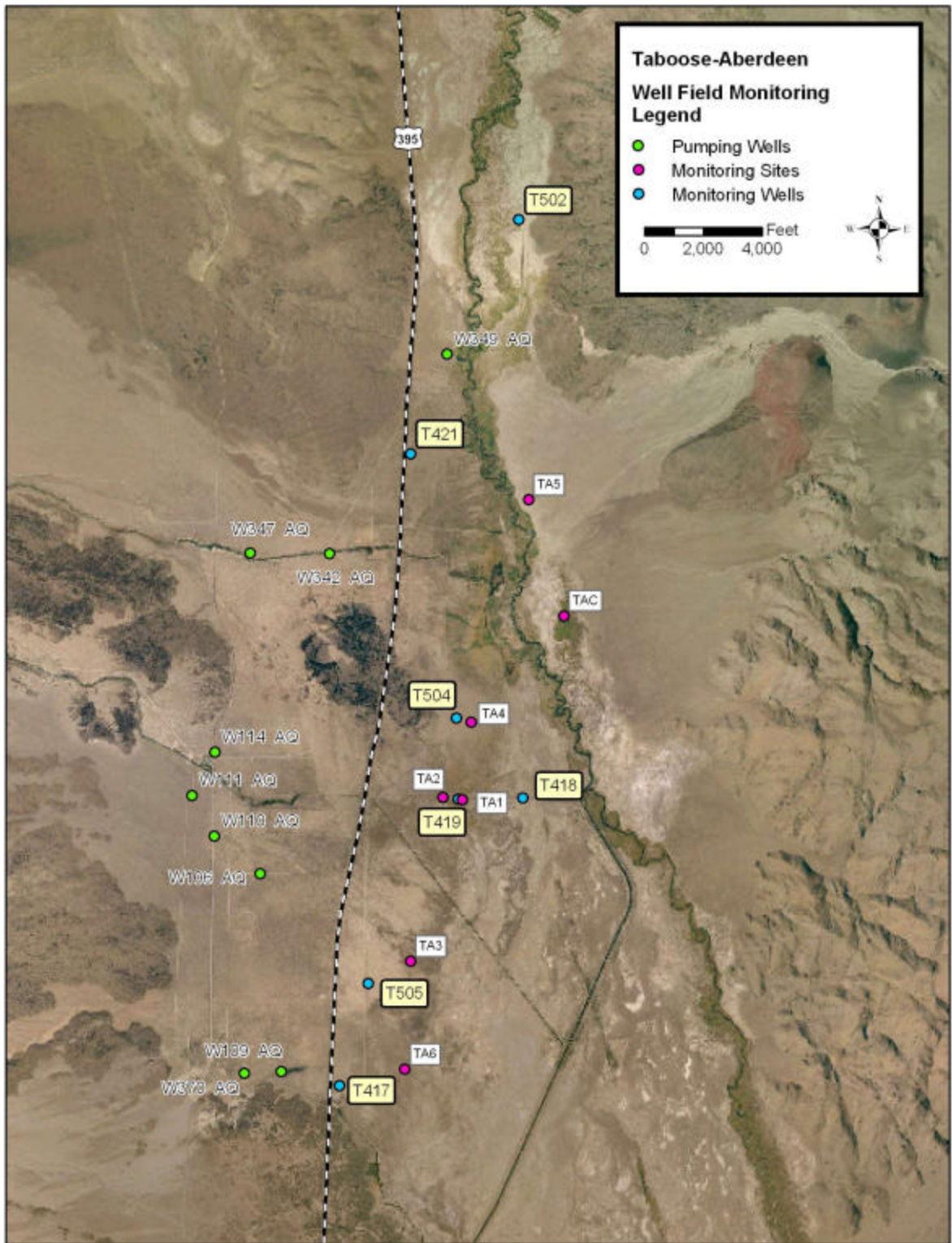
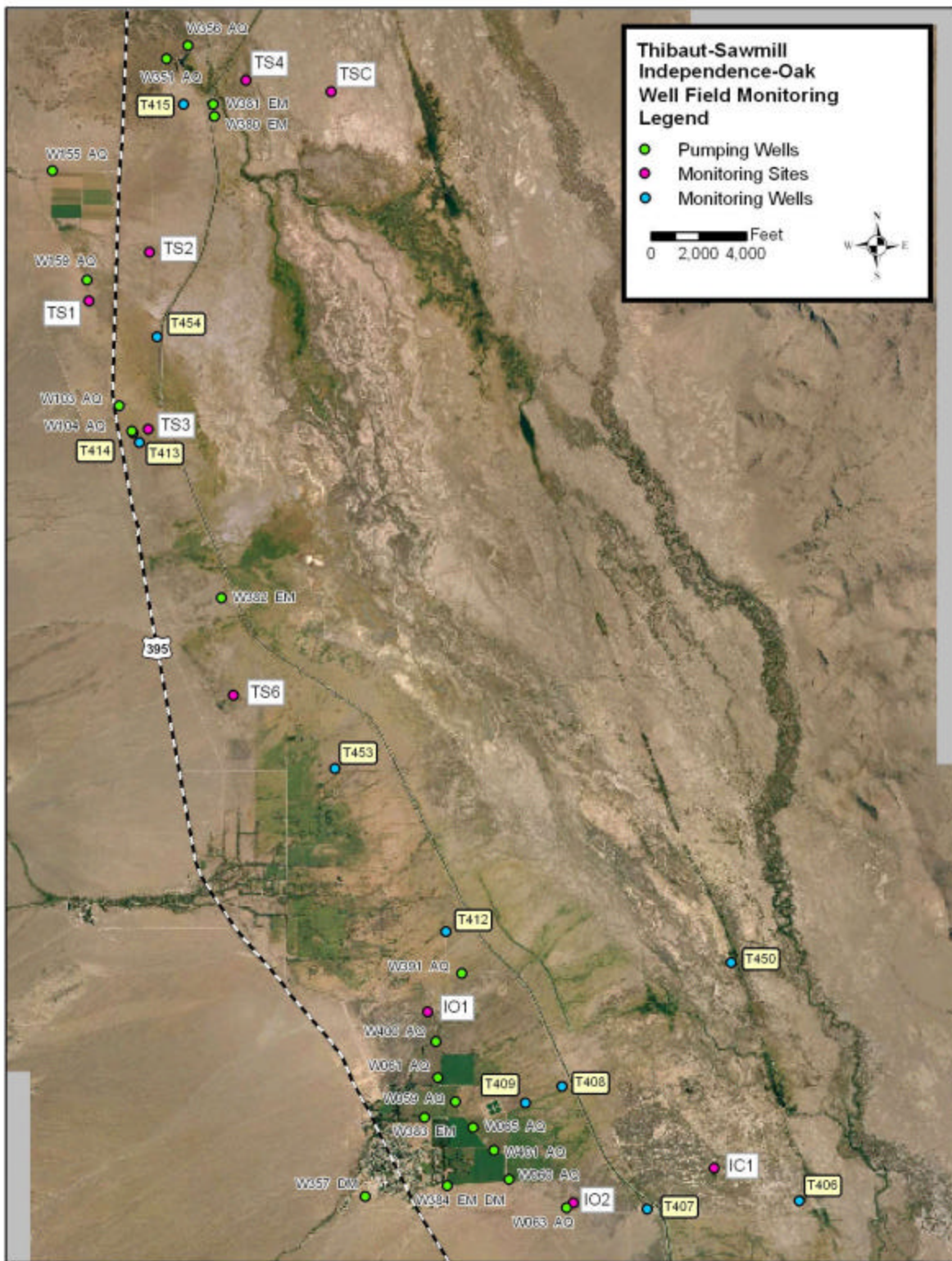


Figure 6



2.2.7 Symmes-Shepherd Wellfield (Figure 7)

Sites SS1 and SS4 are in ON status. Production wells controlled by these monitoring sites have an available production capacity of 13,970 acre-feet. Exempt Well 402 in the Symmes-Shepherd Wellfield has an available capacity of 1,230 acre-feet. A total of 15,200 acre-feet is available in the Symmes-Shepherd Wellfield based on the ON/OFF status. Minimum required pumping in this wellfield is 1,200 acre-feet. LADWP plans to pump 4,560 acre-feet during 2005-2006 runoff year in Symmes-Shepherd Wellfield.

2.2.8 Bairs-Georges Wellfield (Figure 7)

Monitoring site BG2 is in ON status. Production wells controlled by this monitoring site have an available production capacity of 2,900 acre-feet. Exempt Well 343 has a capacity of 1,158 acre-feet. A total capacity of 4,050 acre-feet is available in the Bairs-Georges Wellfield based on the ON/OFF status. LADWP is currently performing an operational test related to Reinhackle Spring. This operational testing is expected to continue in the 2005-2006 runoff year. Pumping in the Bairs-Georges Wellfield is planned to be 2,790 acre-feet in the 2005-2006 runoff year.

2.2.9 Lone Pine Wellfield (Figure 8)

Available pumping capacity in the Lone Pine Wellfield is 1,275 acre-feet, excluding the newly drilled W416. As outlined in the Green Book, LADWP has planned to operate Well 416 for one (1) month as part of the initial operation phase in the process of activating this well, pumping approximately 325 acre-feet. Minimum required pumping in this wellfield is 1,275 acre-feet. Pumping in the Lone Pine Wellfield for the 2005-2006 runoff year is planned to be 1,640 acre-feet.

2.3 Owens Valley Uses (Including Enhancement/Mitigation Projects)

Similar to runoff years 1996-1997 through 2004-2005, full allotments will be available for most Owens Valley uses in 2005-2006. Exception is the E/M project discussed below. LADWP leases will be provided with their normal allotted duty. Alfalfa and improved pasture E/M projects allotted 5 acre-feet duty will receive 5 acre-feet per acre. Native pasture E/M projects allotted 3 acre-feet duty will receive 3 acre-feet per acre. Table 6 shows the historic (1981-1982) and proposed monthly Owens Valley uses for 2005-2006. The Owens Valley uses shown on Table 6 consist of irrigation, stock water supply, recreation and wildlife uses, and E/M supply. As shown in the table, this year LADWP predicts that it will provide approximately 84,640 acre-feet for uses in the Owens Valley. LADWP is currently evaluating a program to encourage water conservation on some irrigated lands leased from LADWP.

Figure 7

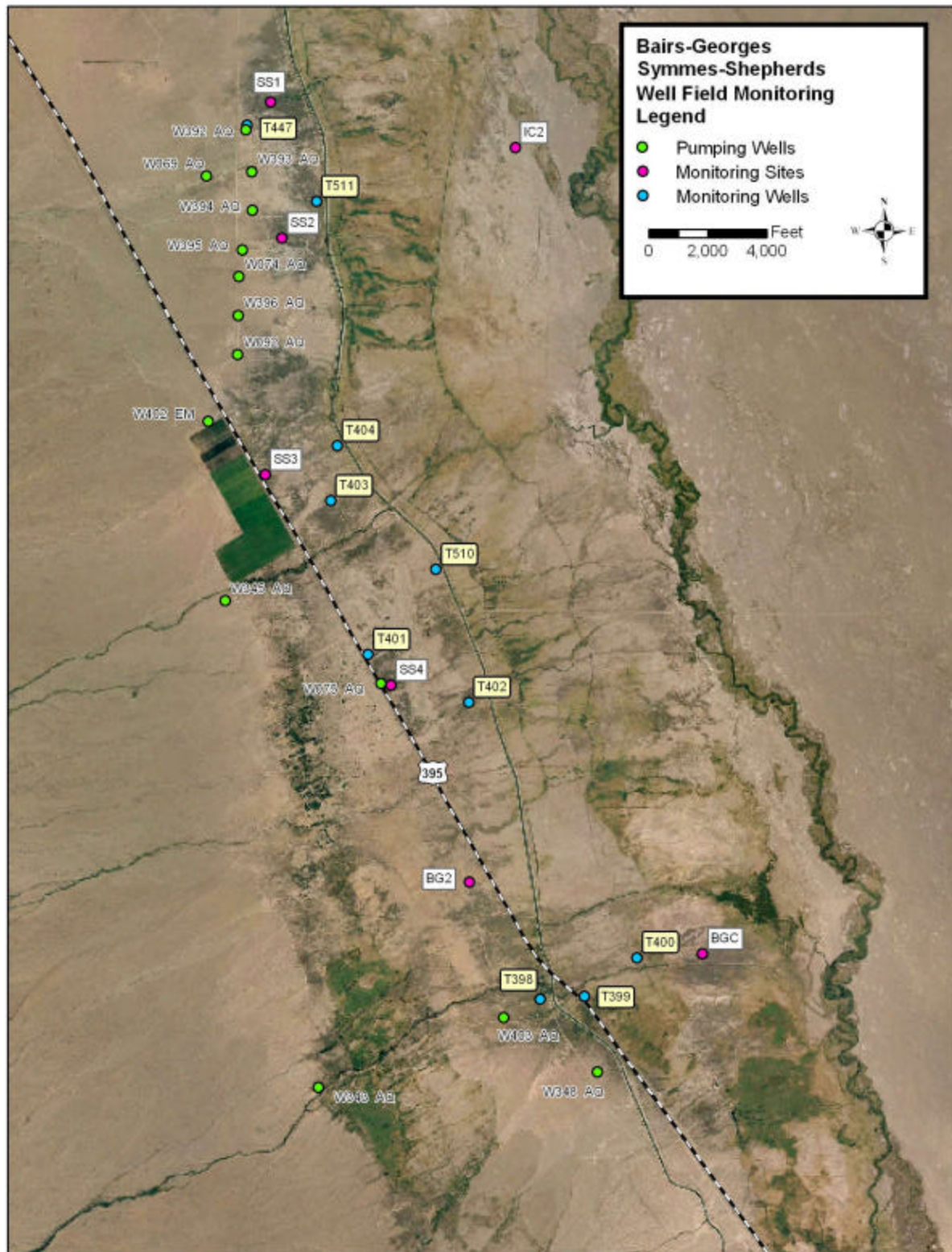


Figure 8

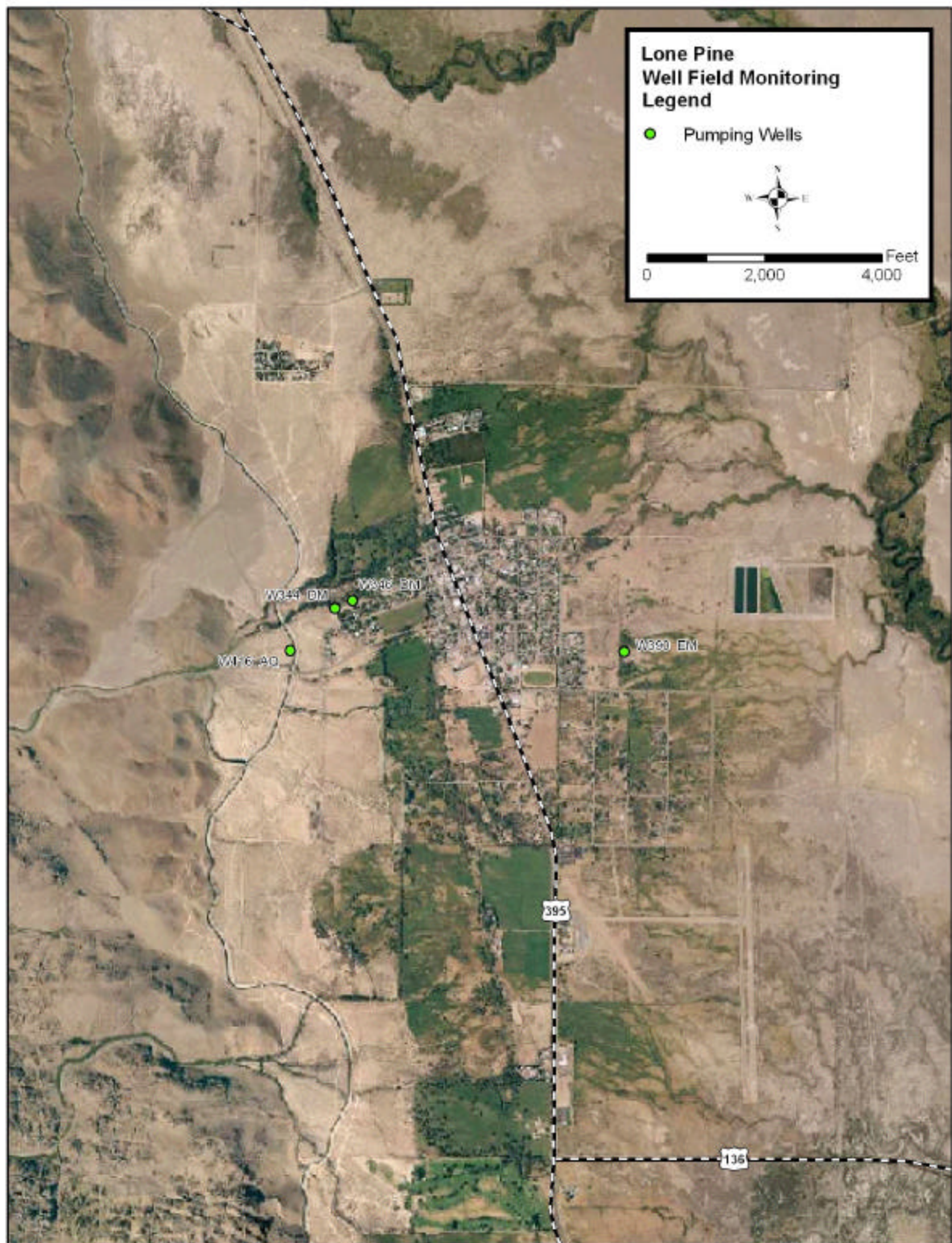


Table 6 - Historic (1981-82) and Projected (2005-2006) Water Uses in the Owens Valley [ac-ft]

Use	April		May		June		July		August		September		TOTAL	
	1981	2005	1981	2005	1981	2005	1981	2005	1981	2005	1981	2005	1981	2005
Irrigation	3,980	4,500	7,958	9,200	10,373	9,990	9,476	10,150	8,295	8,290	6,321	5,570	46,403	47,700
Stockwater	1,141	950	1,319	1,100	1,244	1,070	1,245	1,030	1,219	1,070	1,319	1,010	7,487	6,230
E / M	0	1,410	0	2,540	0	2,970	0	3,800	0	3,290	0	2,090	0	16,100
Rec. & Wildlife	379	490	804	700	1,160	730	1,455	910	1,381	840	1,406	540	6,585	4,210
Total	5,500	7,350	10,081	13,540	12,777	14,760	12,176	15,890	10,895	13,490	9,046	9,210	60,475	74,240

Use	October		November		December		January		February		March		TOTAL	
	1981	2005	1981	2005	1981	2005	1982	2006	1982	2006	1982	2006	1981-82	2005-06
Irrigation	263	240	0	0	0	0	0	0	0	0	14	0	277	240
Stockwater	1,065	930	1,045	820	1,050	930	1,007	860	1,010	750	1,098	700	6,275	4,990
E / M	0	990	0	290	0	480	0	200	0	320	0	300	0	2,580
Rec. & Wildlife	781	670	713	460	565	540	478	290	342	300	447	330	3,326	2,590
Total	2,109	2,830	1,758	1,570	1,615	1,950	1,485	1,350	1,352	1,370	1,559	1,330	9,878	10,400
													46,680	47,940
													13,762	11,220
													0	18,680
													9,911	6,800
													70,353	84,640

The Water Agreement provides that “... *enhancement/mitigation projects shall continue to be supplied by enhancement/mitigation wells as necessary.*” Due to monitoring sites controlling some of the production wells supplying E/M projects being in OFF status the amount of water supplied to E/M projects has exceeded the amount of water provided by E/M project supply wells. Table 7 shows the planned water supply to E/M projects and the forecasted imbalance between the E/M projects water use and the E/M well supply by the end of the 2005-2006 runoff year.

Because of the imbalance between E/M project use and pumping from E/M wells to conserve water and to reduce groundwater pumping, releases to the Lower Owens River Project will be conducted similar to past years. Releases will commence east of Independence and be augmented through additional releases at the Georges and Locust spillgates to maintain a continuous flow in the river channel. This will result in a reduction of approximately 3,000 acre-feet of supply to the Lower Owens River Project during the 2005-2006 runoff year.

Meeting the E/M water use in the program described above is expected to result in a shortfall of E/M pumping totaling approximately 10,180 acre-feet during the 2005-2006 runoff year. This shortfall will be made up by pumping Los Angeles Aqueduct supply wells and/or by providing surface water from the Los Angeles Aqueduct.

2.4 Aqueduct Operations

Table 8 shows proposed Los Angeles Aqueduct first-of-month reservoir storage levels and proposed monthly Aqueduct deliveries to Los Angeles.

2.5 Water Exports to Los Angeles

Figure 9 provides a record of Owens Valley and Mono Basin combined yearly exports from 1970 to the present averaging approximately 375,000 acre-feet per year. Figure 10 shows how the Owens Valley and Mono Basin contribution to the water supply for the City of Los Angeles water supply compares to the total supply between 1970 and present. During the 2004-2005 runoff year, approximately 35% of the water supply for the City of Los Angeles was provided by imports from the Owens Valley and Mono Basin. Figure 10 also shows the forecasted water supply mix for the City of Los Angeles for 2005-2006 runoff year, which estimates that Owens Valley and Mono Basin will provide approximately 59% of the water supply for the City of Los Angeles.

Table 7- Owens Valley Groundwater Pumping for Production and E/M Wells (1984-2005)							
Runoff Year (Apr-Mar)	Owens Valley Runoff (1) (% of normal)	Total Pumping (acre-feet)	Production Wells (acre-feet)	E/M Wells (acre-feet)	E/M Water Uses (acre-feet)	E/M Pumping vs. Use Imbalance (acre-feet)	Cumulative E/M Pumping vs. Use Imbalance (acre-feet)
1985/86	103%	107,718	107,718	0	109		0
1986/87	158%	69,887	69,887	0	12,696	(3)	0
1987/88	67%	209,393	179,883	29,510	29,360		0
1988/89	62%	200,443	171,012	29,431	30,872		0
1989/90	63%	155,903	133,340	22,563	23,330		0
1990/91	52%	89,061	70,974	18,087	17,949		0
1991/92	64%	87,526	71,736	15,790	20,517	-4,727	-4,727
1992/93	61%	84,135	70,370	13,765	18,357	-4,592	-9,319
1993/94	106%	76,329	67,338	8,991	19,310	-10,319	-19,638
1994/95	66%	89,153	78,143	11,010	20,812	-9,802	-29,440
1995/96	153%	69,740	57,168	12,572	22,914	-10,342	-39,782
1996/97	134%	74,817	57,894	16,923	23,949	-7,026	-46,808
1997/98	124%	66,910	52,756	14,154	21,500	-7,346	-54,154
1998/99	148%	51,575	47,354	4,221	19,672	(3)	-54,154
1999/00	88%	63,699	59,366	4,333	24,450	-20,117	-74,271
2000/01	84%	67,534	61,195	6,339	20,611	-14,272	-88,543
2001/02	82%	72,536	69,242	3,294	21,815	-18,521	-107,064
2002/03	67%	82,281	76,361	5,920	21,394	-15,474	-122,538
2003/04	82%	87,726	80,728	6,998	21,116	-14,118	-136,656
2004/05	79%	85,803	78,090	7,710	18,327	-10,617	-147,273
2005/06 (2)	128%	90,000	81,500	8,500	18,680	-10,180	-157,453

(1) 1951-2000 average: 413,210 acre-feet

(2) estimated values

(3) surface water was available

**Table 8 - Proposed Los Angeles Aqueduct Operations for
2005-2006 Runoff Year**

Month	Owens Valley Reservoir Storage (1st of Month) (acre-feet)	Aqueduct Deliveries to LA (acre-feet)
April	155,810	35,702
May	135,395	30,744
June	142,285	29,752
July	161,941	46,116
August	168,817	46,116
September	155,461	44,628
October	137,736	33,818
November	118,269	32,727
December	113,970	30,744
January	116,071	21,521
February	123,030	20,132
March	129,713	21,521
<i>TOTAL</i>		<i>393,521</i>

Figure 9 – Los Angeles Aqueduct Exports

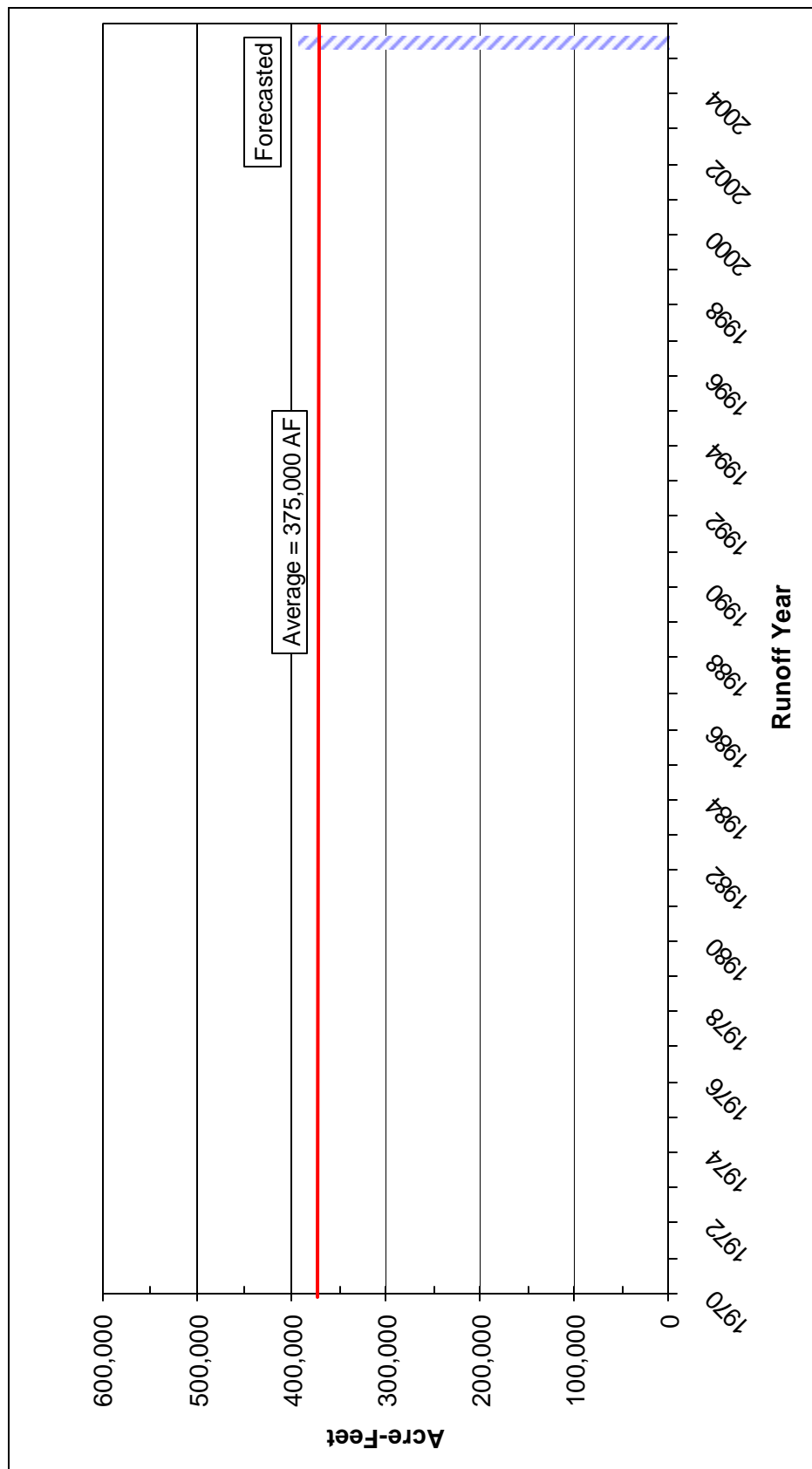


Figure 10 – Sources of Water for the City of Los Angeles

