

January 2017 Development Review Report

WRA areas of responsibility include: Floodplain Management, Drainage/Stormwater Control, and Water Supply.



DISCRETIONARY PERMITS REFERRED TO THE WRA FROM THE RMA-PLANNING DEPARTM

DATE	PROJECT NAME	AREA	PROJECT DESCRIPTION	CONDITION TYPES
01/03/2017	POST RANCH INN	BIG SUR COAST	AN AMENDMENT TO A PREVIOUSLY APPROVED PROJECT AND GENERAL DEVELOPMENT PLAN INVOLVING VARIOUS RENOVATIONS AND IMPROVEMENT TO THE POST RANCH INN.	DRAINAGE CONTROL
01/03/2017	BATES	GREATER MONTEREY PENINSULA	CONSTRUCT A 5,520 SQ FT SFD W/ A 677 SQ FT GARAGE.	DRAINAGE CONTROL
01/09/2017	STONE	GREATER MONTEREY PENINSULA	CONSTRUCT A 5,243 SQ FT SFD W/ AN 864 SQ FT ATTACHED GARAGE, A DETACHED 327 SQ FT POOL HOUSE, 245 LINEAR FT OF RETAINING WALLS, AND ASSOCIATED SITE IMPROVEMENTS.	DRAINAGE CONTROL
01/09/2017	HANNOL HEALTHCARE	GREATER MONTEREY PENINSULA	CONSTRUCT A 4,938.7 SQ FT SFD W/ A 600 SQ FT ATTACHED GARAGE, A 598 SQ FT GUESTHOUSE, A 2,213.8 SQ FT DECK AND VERANDAS, AND A 693 SQ FT GARAGE COVERED PATIO.	DRAINAGE CONTROL
01/09/2017	NORTH MONTEREY HEIGHTS CORP	GREATER SALINAS	AMENDMENT TO APPROVED PLN 080209 COND. NO. 139 TO RE-ALIGN AN EMERGENCY ACCESS ROAD.	NONE
01/10/2017	GREEN VALLEY FLORAL	GREATER SALINAS	COMMERCIAL MEDICAL CANNBIS BUISNESS. THE PROPOSED PROJECT WOULD INCLUDE A TYPE 3B (22,000 SQ.FT. CULTIVATION) AND TYPE 4 (NURSERY) OPERATION N EXISTING GREEN HOUSES/WAREHOUSES.	FLOODPLAIN
01/17/2017	TOP INDUSTRIES LLC	GREATER SALINAS	COMMERCIAL MEDICAL CANNABIS BUSINESS. THE PROPOSED PROJECT WOULD INCLUDE FOUR (4) TYPE 3B (22,000 SQ.F.T CULTIVATION); ONE (1) EXTRACTION LAB; AND ONE (1) TYPE 4 (NURSERY) OPERATION IN EXISTING GREENHOUSES/WAREHOUSES WITHIN THE F/40 DISTRICT.	FLOODPLAIN

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01/17/2017	ZABALA		COMMERCIAL MEDICAL CANNABIS BUSINESS. THE PROPOSED PROJECT WOULD INCLUDE: TWO (2) TYPE 3B (22,000 SQ.FT. CULTIVATION); AND ONE (1) TYPE 4 (NURSERY) OPERATION IN EXISTING GREENHOUSES/WAREHOUSES WITHIN THE FARMLANDS ZONING (F/40) DISTRICT.	FLOODPLAIN
01/17/2017	HILLTOP RANCH	CARMEL VALLEY	ALLOW THE HILLTOP RANCH VINEYARD TO OPERATE IN RELATION TO ITS TASTING ROOM, PERMITTING ROUTINE VINEYARD ACTIVITIES.	NONE
01/23/2017	RAJAGOPALAN	BIG SUR COAST	CONSTRUCT A 4,183 SQ FT SFD W/ A 497 SQ FT ATTACHED GARAGE, A 265 SQ FT BILLIARD BLDG / STORAGE ROOM, A 543 SQ FT DECK, AND A NEW WELL AND SMALL WATER SYSTEM.	DRAINAGE CONTROL
01/23/2017	KA RESIDENTIAL	DEL MONTE FOREST	CONSTRUCT A 768 SQ FT ATTACHED GARAGE AND A 98 SQ FT ADDITION TO THE ENTRYWAY.	DRAINAGE CONTROL
01/23/2017	CHERNUS	DEL MONTE FOREST	CONSTRUCT A 3,079 SQ FT SFD W/ AN 870 SQ FT ATTACHED GARAGE, A 375 SQ FT REAR DECK, A 120 SQ FT SIDE DECK, AND A 107 SQ FT PORCH.	DRAINAGE CONTROL
01/23/2017	BROWN BULB RANCH	NORTH COUNTY	LAND USE DESIGNATION AND ZONING AMENDMENT FROM AG CONSERVATION TO COASTAL AG PRESERVE.	NONE
01/24/2017	SYNCHRONICITY HOLISTIC	CARMEL VALLEY	COMMERCIAL MEDICAL CANNABIS BUSINESS. THE PROPOSED PROJECT WOULD INCLUDE A TYPE 10 (DISPENSARY) OPERATION IN EXISTING RETAIL SPACE WITHIN THE LIGHT COMMERCIAL ZONING.	WATER SUPPLY
01/24/2017	BIG SUR CANNABOTANICALS	CARMEL VALLEY	COMMERCIAL MEDICAL CANNABIS BUSINESS. THE PROPOSED PROJECT WOULD INCLUDE A TYPE 10 (DISPENSARY) OPERATION IN EXISTING RETAIL SPACE WITHIN THE LIGHT COMMERCIAL ZONING.	WATER SUPPLY

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01/31/2017	HACKETT	CENTRAL SALINAS VALLEY	COMMERCIAL MEDICAL CANNABIS BUSINESS. THE PROPOSED PROJECT WOULD INCLUDE EIGHT (8) TYPE 3B (22,000 SQ.FT. CULTIVATION); ONE (1) TYPE 7 (VOLATILE MANUFACTURING); AND ONE (1) TYPE 4 (NURSERY) OPERATION IN EXISTING GREENHOUSES	FLOODPLAIN
01/31/2017	VONNEGUT	GREATER SALINAS	CONSIDERATION OF A COMMERCIAL MEDICAL CANNABIS BUSINESS. THE PROPOSED PROJECT WOULD INLCUDE ONE (1) TYPE 7 (VOLATILE MANUFACTURING) IN EXISTING GREENHOUSES/WAREHOUSES WITHIN HEAVY INDUSTRIAL ZONING.	NONE

CONSTRUCTION PERMITS REFERRED TO THE WRA FROM THE RMA-BUILDING SERVICES DEPARTME

DATE	PROJECT NAME	AREA	PROJECT DESCRIPTION	CONDITION TYPES
01/04/2017	APKT INC A WYOMING	SOUTH COUNTY	NEW 2,062 SQ.FT. SFD AND 900 SQ.FT. GARAGE	DRAINAGE CONTROL
01/05/2017	DOBKINS	SOUTH COUNTY	CONSTRUCT AN SFD.	NONE
01/10/2017	SAWYER	CARMEL	REMODEL, ADDITION TO SFD.	WATER SUPPLY
01/11/2017	FJUGSTAD	DEL MONTE FOREST	REMODEL SFD.	WATER SUPPLY
01/11/2017	ONG	CARMEL	REMODEL, ADDITION TO SFD.	WATER SUPPLY
01/12/2017	HYLAND	DEL MONTE FOREST	REMODEL SFD.	WATER SUPPLY
01/13/2017	MPCC	DEL MONTE FOREST	RENOVATIONS, ADDITIONS TO CLUBHOUSE.	WATER SUPPLY
01/17/2017	INDUS HOLDING CO.	GREATER SALINAS	NEW 4,000 AMP 480 VOLT SERVICE FOR COMMERCIAL GREENHOUSE.	NONE

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01/17/2017	SMITH	CARMEL	REMODEL SFD.	WATER SUPPLY
01/18/2017	SALINAS LAND CO.	SOUTH COUNTY	ENV HEALTH WELL PERMIT.	FLOODPLAIN
01/18/2017	GARDNER	CARMEL VALLEY	CONSTRUCT A 605 SQ FT DETACHED GARAGE W/ A 408 SQ FT GUESTHOUSE ABOVE.	FLOODPLAIN
01/19/2017	CAMUSI	GREATER MONTEREY PENINSULA	ADD SPA.	WATER SUPPLY
01/20/2017	PARESA	CARMEL	LEGALIZE EXISTING BATHROOM.	WATER SUPPLY
01/20/2017	DAVI	CARMEL VALLEY	INSTALL UTILITY SINK IN GARAGE.	WATER SUPPLY
01/23/2017	TAGUE	CARMEL VALLEY	FIXTURE ADJUSTMENT.	WATER SUPPLY
01/24/2017	TORRES	CARMEL	REMODEL SFD.	WATER SUPPLY
01/25/2017	SKINNER	CARMEL VALLEY	REMODEL GUESTHOUSE OVER GARAGE.	WATER SUPPLY
01/26/2017	MOORE	CARMEL	DEMO, CONSTRUCT SFD.	WATER SUPPLY
01/27/2017	MARTINEZ	SALINAS	CONSTRUCT A 202 SQ FT ADDITION TO SFD, 421 SQ FT OF NEW PORCHES, AND REPLACE ROOF.	FLOODPLAIN
01/30/2017	ARENDT	CARMEL VALLEY	REMOVE 3 TEMPORARY SHEDS, CONSTRUCT A 406 SQ FT GARAGE WORKSHOP.	FLOODPLAIN
01/30/2017	BREITENWISCHER	CARMEL	REMODEL SFD.	WATER SUPPLY

**MONTEREY COUNTY WATER RESOURCES AGENCY
BOARD OF DIRECTORS – INFORMATION ITEM**

MEETING DATE:	February 21, 2017	AGENDA ITEM:
Consent ()	Action ()	Information (X)
DEADLINE FOR BOARD ACTION:	February 21, 2017	

..Title

Update on the Deep Aquifer of the Pressure Subarea

..Report

RECOMMENDATION:

None – item presented for informational purposes.

SUMMARY/DISCUSSION:

Well Construction in the Deep Aquifer

Twenty-five (25) production wells have been installed in the Deep Aquifer of the Pressure Subarea during the period from 1974 to 2016. As of the data of this report, no production wells have been constructed in the Deep Aquifer during 2017. An additional five (5) monitoring wells have been installed in the Deep Aquifer, for a total of thirty (30) wells in the Deep Aquifer. Two (2) additional wells were proposed for construction in 2016, but have not yet been installed.

The Agency participates in review of new well construction in the Deep Aquifer through its role as a technical consultant to the Monterey County Health Department's Environmental Health Bureau. In this role, the Agency reviews applications for Deep Aquifer wells and provides well permit conditions for applicants prior to drilling. The Agency also reviews the final well design proposal before a well is constructed; this includes the depth of annular seals, screens, and total depth of the well.

For new high capacity wells drilled in the Deep Aquifer, the Agency conducts a well impact assessment to determine potential for significant impact to existing domestic wells, water system wells, or in-stream flows. Since the practice of conducting high capacity well assessments was initiated in November 2011, as a result of implementing the 2010 Monterey County General Plan, nine (9) high capacity wells have been proposed in the Deep Aquifer, with applicant-estimated pumping rates ranging from 1,200 to 3,000 gallons per minute. None of the nine high capacity well impact assessment have indicated potential for significant impact.

Geologic Setting and Aquifer System

The Deep Aquifer of the Pressure Subarea has historically been referred to as the "Deep zone," "900-foot aquifer," and "1500-foot aquifer." Geologic data from wells suggests that the Deep Aquifer is actually comprised of two separate water-bearing geologic formations: the Paso

Robles and Purisima/Santa Margarita (Figure 1). The Paso Robles formation is of terrestrial origin and consists of sand, gravel, silt, and clay. The Purisima and Santa Margarita formations are marine in origin and are predominantly sandstone, clay, and shale.

Direct recharge of water to the Deep Aquifer formations is limited. The Purisima formation is not exposed on land in Monterey County and the Paso Robles receives minimal recharge from direct rainfall. Some additional recharge to these two formations occurs through leakage from overlying aquifers. Analysis conducted at a monitoring well that is constructed in the Deep Aquifer near Marina, CA indicated that the groundwater was probably recharged thousands of years before present (USGS, 2002).

Monitoring Programs

The Agency monitors groundwater quality and levels in the Deep Aquifer using a network of ten and eleven wells, respectively.

The Agency's record of groundwater levels in the Deep Aquifer begins in 1986. The data indicates declining groundwater levels through the late 1980s, which leveled out through most of the 1990s. Groundwater levels increased beginning in 1998, which coincided with the startup of the Castroville Seawater Intrusion Project (CSIP). Groundwater levels began to decline in 2001, a trend which has generally continued to present day (Figure 3).

Through the Groundwater Extraction Management System (GEMS), the Agency has records of pumping data from Deep Aquifer wells dating back to 1993. Total annual groundwater extractions from the Deep Aquifer range from 2,000 to 5,100 acre-feet, for 1993 to 2015, with the highest recorded extractions occurring in 2014 (Figure 4). Groundwater extraction data from 2016 is currently being processed by the Agency and is therefore not included in this report.

Ongoing Activity and Agency Work

The Agency continues to learn more about the Deep Aquifer as new wells are installed by the public and as development of the Salinas Valley Integrated Hydrologic Model (SVIHM) progresses. Previous modeling efforts by others indicate that groundwater levels in all of the Pressure Subarea aquifers will decline as groundwater production in the Deep Aquifer increases. This, and other characteristics of the Deep Aquifer, will continue to be studied in order to refine the Agency's understanding of the Deep Aquifer.

OTHER AGENCY INVOLVEMENT:

None

FINANCING:

None

Prepared by: Amy Woodrow, Hydrologist, (831) 755-4860
Howard Franklin, Senior Hydrologist, (831) 755-4860

FIGURE 1

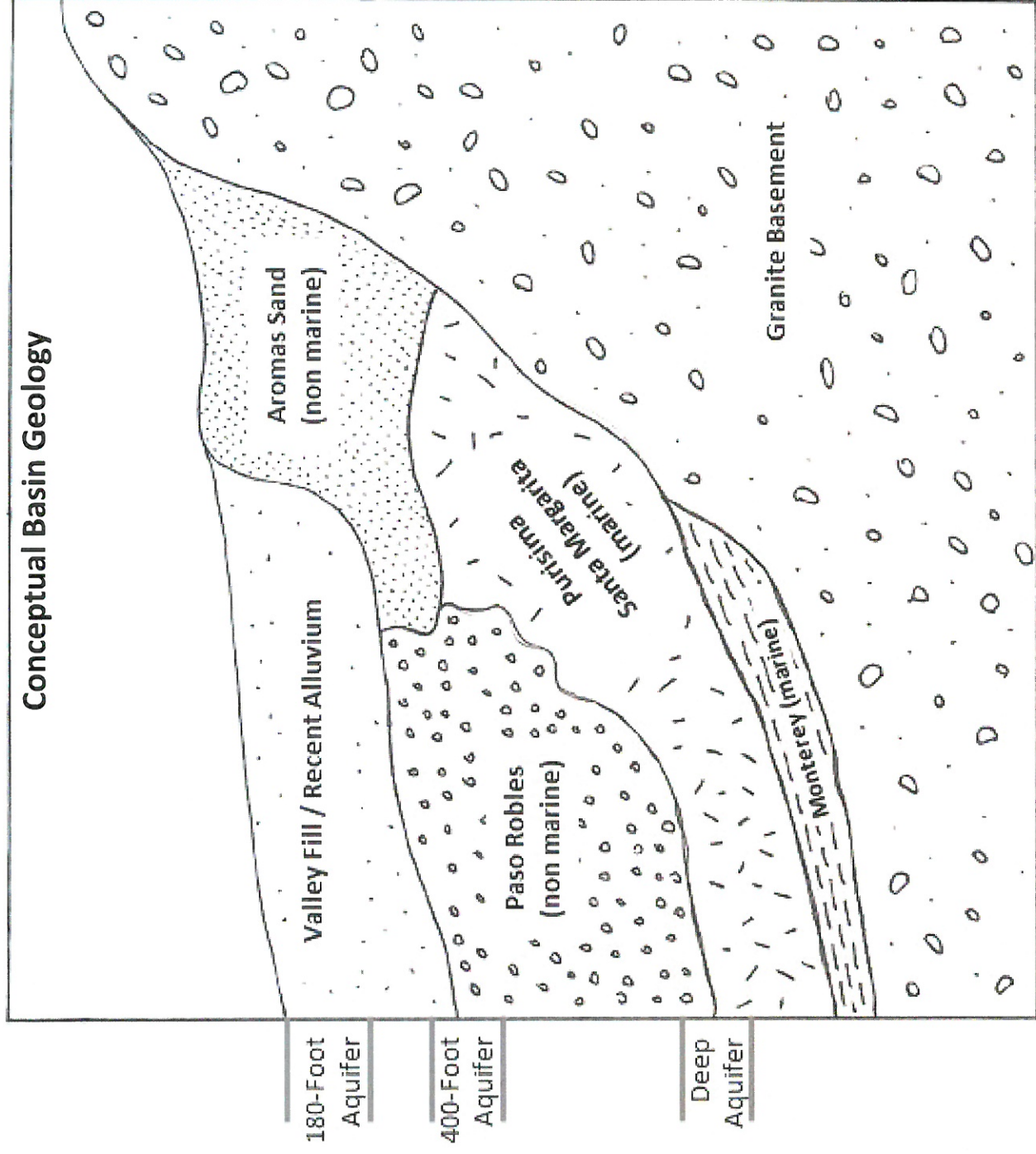
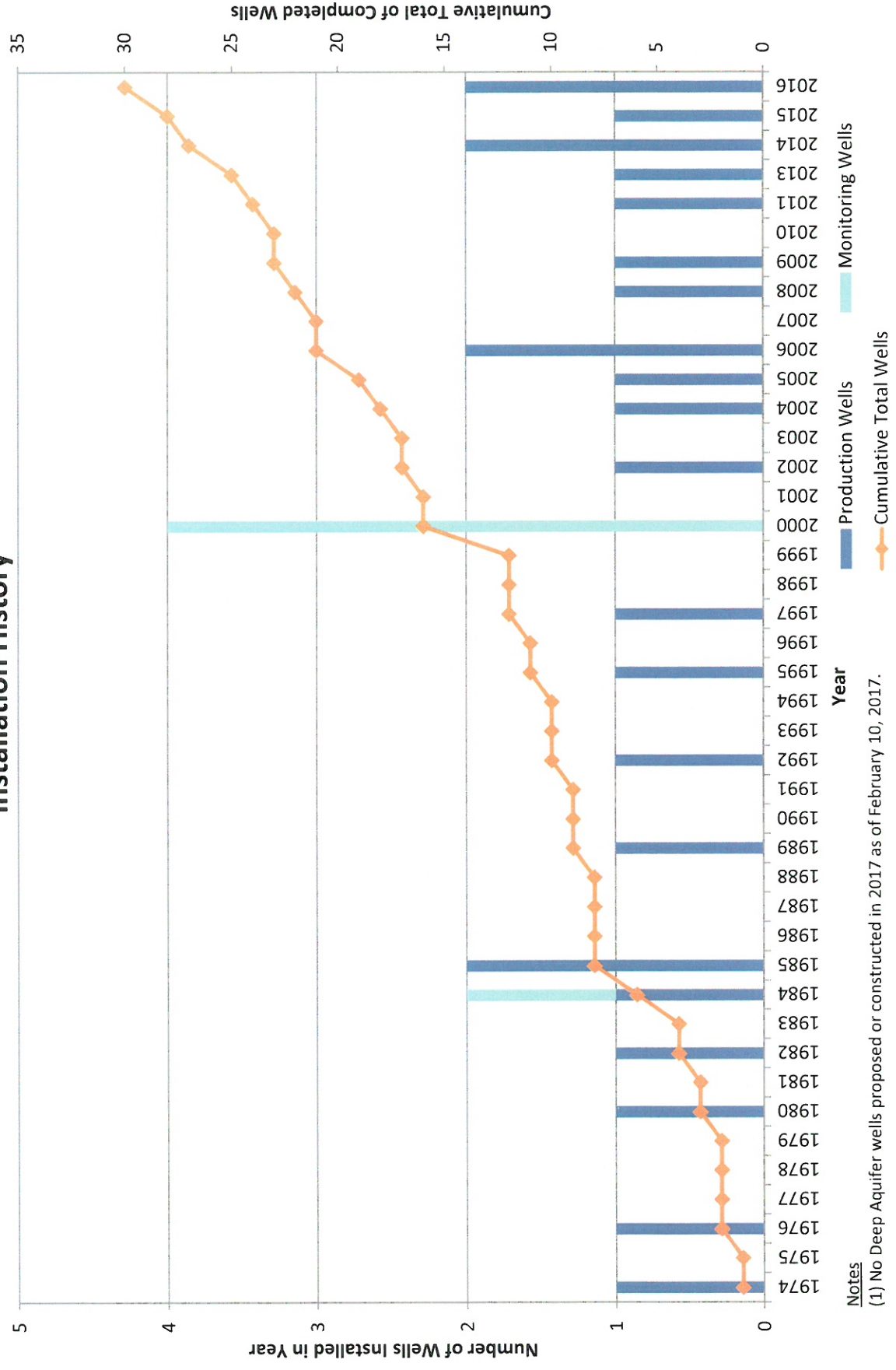


Image adapted from Montgomery Watson, Salinas River Water Resources Management Plan (1994).

FIGURE 2
Deep Aquifer Wells
Installation History



Notes

(1) No Deep Aquifer wells proposed or constructed in 2017 as of February 10, 2017.

FIGURE 3
Pressure Deep Aquifer
Average Groundwater Level Changes
1986-2016

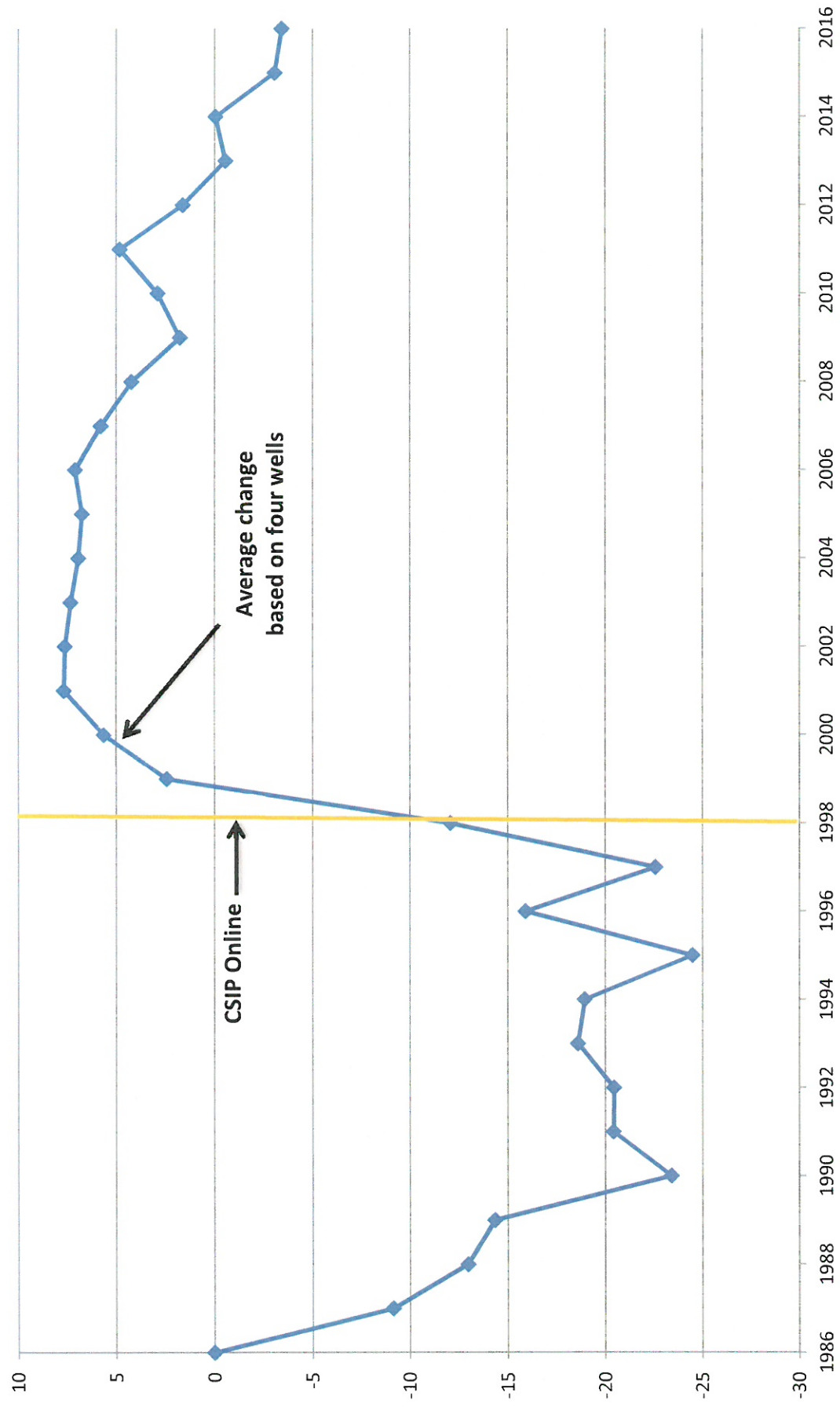
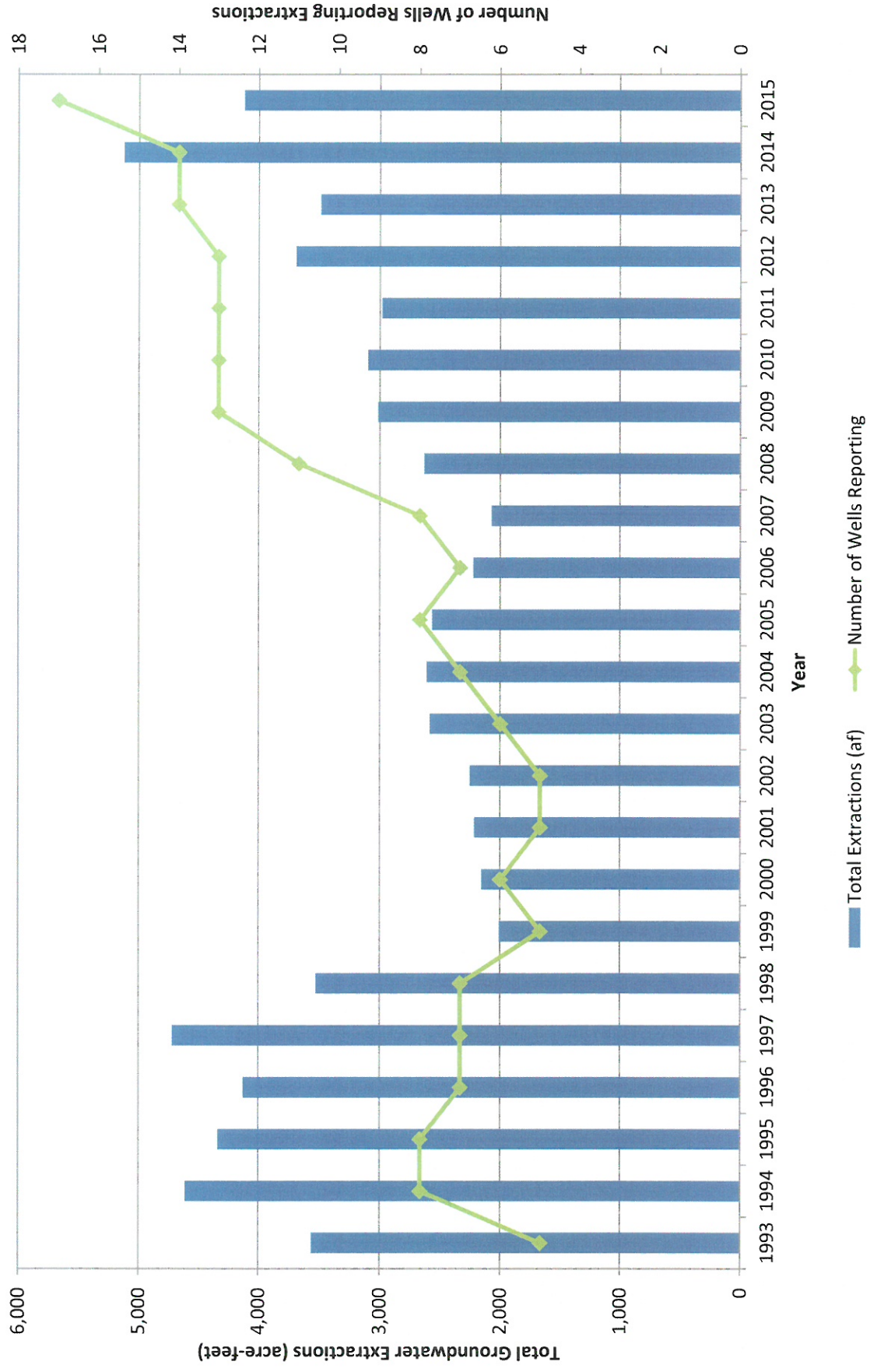


FIGURE 4
Pressure Deep Aquifer
Groundwater Extractions



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BOARD OF DIRECTORS – INFORMATION ITEM**

MEETING DATE:	February 21, 2017	AGENDA ITEM:
Consent () Action () Information (X)		
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Well Permit Application Activities Update

..Report

RECOMMENDATION:

None – item presented for informational purposes.

SUMMARY/DISCUSSION:

The Well Permit Application Process is regulated by the Environmental Health Bureau (EHB). The Agency provides technical support to the EHB as part of the process. The changes that came about since the adoption of the 2010 County General Plan have caused concerns and misinformation in the public. To provide correct and up to date information to the public, Agency Staff has developed the attached Well Impact Evaluation Summary Table (Table).

The Table provides a summation of well permit applications that are being evaluated by Agency Staff, broken out by domestic well permit applications and high capacity well permit applications, as well as by Salinas Valley subarea. This table is provided to the BOD on a monthly basis.

OTHER AGENCY INVOLVEMENT:

None

FINANCING:

None

Prepared by: Amy Woodrow, Hydrologist, (831) 755-4860
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Summary of Well Impact Evaluations Conducted per 2010 Monterey County General Plan

Domestic Wells

<i>Evaluation Outcome</i>	Pressure	East Side	Forebay	Upper Valley	Outside Zone 2C	TOTAL
Coastal Zone or City (General Plan n/a).	0	1	0	0	6	7
No potential impact.	3	11	9	5	134	162
Potential impact; acceptable mitigation proposed.	0	0	0	0	2	2
Repair (exempt).	0	1	0	0	1	2
Replacement (exempt).	0	5	2	2	9	18
TOTAL	3	18	11	7	152	191
<i>Subarea Total as Percentage</i>	2%	9%	6%	4%	80%	

High Capacity Wells

<i>Evaluation Outcome</i>	Pressure	East Side	Forebay	Upper Valley	Outside Zone 2C	TOTAL
Coastal Zone or City (General Plan n/a).	1	0	0	0	1	2
No potential impact.	13	26	20	16	13	88
Potential impact; acceptable mitigation proposed.	1	1	0	3	0	5
Repair (exempt).	0	0	0	1	0	1
Replacement (exempt).	9	5	4	16	0	34
TOTAL	24	32	24	36	14	130
<i>Subarea Total as Percentage</i>	18%	25%	18%	28%	11%	

Total Evaluations:

To Date: 321 2016/17 Fiscal Year: 46

Evaluations initiated November 2011.

Report Date: 2/7/2017

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Monterey County Water Recycling Projects and Salinas River Diversion Facility Operations Update

SUMMARY/DISCUSSION:

No significant changes from last month's operations update to report. Daily irrigation demand is currently being met by recent rains and the 8 available CSIP supplemental wells. Preparations are moving forward in anticipation of Salinas River Diversion Facility (SRDF) operations during this year's upcoming growing and irrigation season.

Eight wells are presently operational, with a total flow capacity of approximately 14,500 gallons per minute or 76 acre feet per day. Two CSIP supplemental wells, 03H1 and 11B1, are offline for maintenance and are expected to be returned to service ahead of this year's irrigation season. Scheduled maintenance to wells 03H1 and 11B1 has been delayed due to recent storm activity, but will commence when weather and field conditions improve to allow access.

The regional treatment plant is offline due to low irrigation demand and planned winter maintenance. Once back online, the regional treatment plant will provide approximately 20 MGD or 61 acre feet per day. This includes the 3.5 MGD diversion from the Salinas industrial pond which the regional plant will begin receiving in April.

OTHER AGENCY INVOLVEMENT:

N/A

FINANCING:

N/A

Prepared by: Mark Foxworthy, Associate Water Resources Engineer, 755-8984

Approved by: _____
David E. Chardavoyne, General Manager, (831) 755-4860

Attachments:
CSIP Water Production Table

Monterey County Water Recycling Projects (MCWRP) & Salinas River Diversion Facility (SRDF) Water Production (Acre Feet)																			
Source	FY 98-99	FY 99-00	FY 00-01	FY 01-02	FY 02-03	FY 03-04	FY 04-05	FY 05-06	FY 06-07	FY 07-08	FY 08-09	FY 09-10	FY 10-11	FY 11-12	FY 12-13	FY 13-14	FY 14-15	FY15-16	FY16-17
	Jul-98	Jul-99	Jul-00	July-01	July-02	July-03	July-04	July-05	July-06	July-07	July-08	July-09	July-10	July-11	July-12	July-13	July-14	July-15	July-16
CSIP-Wells	772	1,318	1,234	1,535	1,363	1,821	1,565	1,507	1,424	1,517	1,590	1,699	267	316	214	98	1,303	1,351	1,412
SRDF-River	0	0	0	0	0	0	0	0	0	0	0	0	1,035	1,145	992	1,260	0	0	0
SVRP-Recycled	1,114	1,870	1,886	1,879	1,900	1,898	1,957	1,906	1,931	1,957	1,943	1,837	1,889	1,869	1,834	1,786	2,073	1,842	1,941
	Aug-98	Aug-99	Aug-00	Aug-01	Aug-02	Aug-03	Aug-04	Aug-05	Aug-06	Aug-07	Aug-08	Aug-09	Aug-10	Aug-11	Aug-12	Aug-13	Aug-14	Aug-15	Aug-16
CSIP-Wells	748	899	774	1,105	1,073	1,283	1,145	770	1,103	1,115	969	1,107	272	568	311	263	1,025	1,105	911
SRDF-River	0	0	0	0	0	0	0	0	0	0	0	0	968	709	799	1,220	0	0	0
SVRP-Recycled	1,118	1,772	1,843	1,944	1,877	1,889	1,954	1,838	1,925	1,927	1,906	1,839	1,902	1,873	1,847	1,803	2,033	1,785	1,704
	Sep-98	Sep-99	Sep-00	Sep-01	Sep-02	Sep-03	Sep-04	Sep-05	Sep-06	Sep-07	Sep-08	Sep-09	Sep-10	Sep-11	Sep-12	Sep-13	Sep-14	Sep-15	Sep-16
CSIP-Wells	226	368	517	417	793	561	727	337	342	380	545	509	191	419	135	248	435	482	445
SRDF-River	0	0	0	0	0	0	0	0	0	0	0	0	478	0	314	537	0	0	0
SVRP-Recycled	989	1,398	1,460	1,505	1,435	1,750	1,821	1,689	1,782	1,616	1,683	1,594	1,821	1,617	1,734	1,725	1,837	1,687	1,782
	Oct-98	Oct-99	Oct-00	Oct-01	Oct-02	Oct-03	Oct-04	Oct-05	Oct-06	Oct-07	Oct-08	Oct-09	Oct-10	Oct-11	Oct-12	Oct-13	Oct-14	Oct-15	Oct-16
CSIP-Wells	309	370	450	164	162	174	183	115	172	125	140	119	20	54	16	165	102	38	228
SRDF-River	0	0	0	0	0	0	0	0	0	0	0	0	80	0	65	133	0	0	0
SVRP-Recycled	432	1,017	475	1,276	1,316	1,371	862	1,241	1,509	1,129	1,378	465	1,006	733	1,168	1,548	1,407	1,217	578
	Nov-98	Nov-99	Nov-00	Nov-01	Nov-02	Nov-03	Nov-04	Nov-05	Nov-06	Nov-07	Nov-08	Nov-09	Nov-10	Nov-11	Nov-12	Nov-13	Nov-14	Nov-15	Nov-16
CSIP-Wells	77	82	230	11	183	134	171	330	90	692	35	575	246	238	72	35	303	213	325
SRDF-River	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SVRP-Recycled	32	153	0	260	184	149	0	209	342	0	730	0	179	224	731	1,127	18	57	0
	Dec-98	Dec-99	Dec-00	Dec-01	Dec-02	Dec-03	Dec-04	Dec-05	Dec-06	Dec-07	Dec-08	Dec-09	Dec-10	Dec-11	Dec-12	Dec-13	Dec-14	Dec-15	Dec-16
CSIP-Wells	72	215	397	10	107	40	150	85	119	445	29	194	69	723	44	730	38	199	211
SRDF-River	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SVRP-Recycled	0	0	0	0	0	0	0	0	0	0	289	0	0	0	0	88	0	0	0
	Jan-99	Jan-00	Jan-01	Jan-02	Jan-03	Jan-04	Jan-05	Jan-06	Jan-07	Jan-08	Jan-09	Jan-10	Jan-11	Jan-12	Jan-13	Jan-14	Jan-15	Jan-16	Jan-17
CSIP-Wells	169	202	189	151	130	179	83	109	687	91	485	100	333	1,067	253	490	516	96	62
SRDF-River	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SVRP-Recycled	22	0	0	0	0	0	0	0	0	0	0	0	26	0	0	1,240	32	0	0
	Feb-99	Feb-00	Feb-01	Feb-02	Feb-03	Feb-04	Feb-05	Feb-06	Feb-07	Feb-08	Feb-09	Feb-10	Feb-11	Feb-12	Feb-13	Feb-14	Feb-15	Feb-16	Feb-17
CSIP-Wells	52	43	128	358	345	121	280	583	252	171	235	143	100	162	334	9	115	520	
SRDF-River	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SVRP-Recycled	58	0	0	385	32	1	0	0	154	173	112	0	580	1,031	692	351	1,013	56	
	Mar-99	Mar-00	Mar-01	Mar-02	Mar-03	Mar-04	Mar-05	Mar-06	Mar-07	Mar-08	Mar-09	Mar-10	Mar-11	Mar-12	Mar-13	Mar-14	Mar-15	Mar-16	Mar-17
CSIP-Wells	138	651	529	233	473	455	241	124	459	520	408	529	154	211	218	214	411	395	
SRDF-River	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SVRP-Recycled	35	11	422	791	1,184	1,121	0	0	1099	1,602	676	49	450	929	1,561	902	1,542	289	
	Apr-99	Apr-00	Apr-01	Apr-02	Apr-03	Apr-04	Apr-05	Apr-06	Apr-07	Apr-08	Apr-09	Apr-10	Apr-11	Apr-12	Apr-13	Apr-14	Apr-15	Apr-16	Apr-17
CSIP-Wells	601	678	587	564	190	878	482	195	496	1,513	1054	143	544	80	239	240	446	391	
SRDF-River	0	0	0	0	0	0	0	0	0	0	0	0	0	0	501	0	0	0	
SVRP-Recycled	586	1,136	1,332	1,763	1,381	1,848	740	328	1642	1,806	1702	839	1,650	1,044	1,679	1,431	1,556	1,640	
	May-99	May-00	May-01	May-02	May-03	May-04	May-05	May-06	May-07	May-08	May-09	May-10	May-11	May-12	May-13	May-14	May-15	May-16	May-17
CSIP-Wells	313	439	531	446	535	810	388	249	417	939	822	150	284	125	239	1,067	696	831	
SRDF-River	0	0	0	0	0	0	0	0	0	0	0	375	593	618	1,219	0	0	0	
SVRP-Recycled	1,561	1,283	1,805	1,770	1,722	1,933	1,770	1751	1907	1,914	1717	1737	1694	1,745	1,799	1,912	1,758	1,770	
	Jun-99	Jun-00	Jun-01	Jun-02	Jun-03	Jun-04	Jun-05	Jun-06	Jun-07	Jun-08	Jun-09	Jun-10	Jun-11	Jun-12	Jun-13	Jun-14	Jun-15	Jun-16	Jun-17
CSIP-Wells	743	1,051	1,359	1,256	1,435	1,653	1,402	1,394	1,523	1,726	1,391	570	428	276	363	1,261	1,066	1,299	
SRDF-River	0	0	0	0	0	0	0	0	0	0	0	944	1,020	906	1,224	0	0	0	
SVRP-Recycled	1,615	1,793	1,877	1,664	1,808	1,913	1,833	1,903	1,874	1,797	1,750	1,838	1,713	1,764	1,677	1,940	1,761	1,855	
Totals	FY 98-99	FY 99-00	FY 00-01	FY 01-02	FY 02-03	FY 03-04	FY 04-05	FY 05-06	FY 06-07	FY 07-08	FY 08-09	FY 09-10	FY 10-11	FY 11-12	FY 12-13	FY 13-14	FY 14-15	FY 15-16	FY 16-17
CSIP-Wells	4,220	6,316	6,925	6,250	6,789	8,109	6,817	5,798	7,084	9,234	7,703	5,838	2,908	4,239	2,438	4,820	6,455	6,921	3,594
SRDF-River	0	0	0	0	0	0	0	0	0	0	0	1,319	4,174	3,378	5,114	3,150	0	0	0
SVRP-Recycled	7,562	10,433	11,100	13,237	12,839	13,873	10,937	10,865	14,165	13,921	13,886	10,198	12,910	12,829	14,723	15,853	15,030	12,198	6,005
Total acre-feet	11,782	16,749	18,025	19,487	19,628	21,982	17,754	16,663	21,249	23,155	21,589	17,355	19,992	20,446	22,275	23,822	21,485	19,120	9,599
% Wells	36%	38%	38%	32%	35%	37%	38%	35%	33%	40%	36%	34%	15%	21%	11%	20%	30%	36%	37%
% River	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	8%	21%	17%	23%	13%	0%	0%	0%
% Recycled	64%	62%	62%	68%	65%	63%	62%	65%	67%	60%	64%	59%	65%	63%	66%	67%	70%	64%	63%