

Well Permit Application Activities Update

SUMMARY/DISCUSSION:

In support of Monterey County's Well Permit Application Program the Agency acts as technical advisor to the program's lead agency, the Environmental Health Bureau (EHB). In accordance with a 1991 interdepartmental Memorandum of Agreement between the Agency and EHB, the Agency performs a comprehensive review process on well permit applications for new wells pumping five acre-feet of water or more per year, as well as for proposed well destructions and repairs.

The Agency provides review and/or advisement to EHB within five (5) business days of receiving new well permit applications. The Agency also reviews final well designs and annular seal depth proposals on an on-going basis and is committed to providing a response to EHB within twenty-four (24) hours of receiving design proposals.

The Agency receives funds that cover staff time for well application review, well completion report processing, and database maintenance from fees collected by EHB. The Agency's fees are defined in Article XI of the Monterey County Fee Resolution, which was last updated in 2014.

Table 1 (attached) provides a summation of well permit applications received in the last month for evaluation by Agency staff, categorized by permit type, Agency management area, and aquifer unit. Also included is a tabulation of new well applications reviewed for the fiscal year. This table is provided to the Board of Directors and Basin Management Advisory Committee on a monthly basis.

Publication of the Agency's Report, "Recommendations To Address the Expansion of Seawater Intrusion in the Salinas Valley Groundwater Basin (October, 2017) and subsequent adoption of Interim Urgency Ordinance 5302 by the Monterey County Board of Supervisors (May 22, 2018) have led to increased interest in data related to Deep Aquifer wells (Figure 1) and extractions.

Figure 2 depicts the history of well installation in the Deep Aquifers by water use category. As illustrated in the chart, a total of fifty-one (51) wells have been installed in the Deep Aquifers since 1974, with twenty (20) of those wells being constructed in the last ten years, including twelve (12) within the last three years. Figure 2 includes a tabular historical summary of reported annual Deep Aquifer well extractions by water used category.

One additional permit has been issued for a new Deep Aquifer well but construction has not been completed as of the date of this report. The proposed well has been applied for as a "replacement well" under provisions of interim Ordinance No. 5302.

OTHER AGENCY INVOLVEMENT:

None

FINANCING:

None

Prepared by: Peter Kwiek, Hydrologist, (831) 755-4860
Tamara Voss, Associate Hydrologist (831) 744-4860
Howard Franklin, Senior Hydrologist, (831) 755-4860

Attachments:

Table 1 - Summary of Well Permits Received

Figure 1- Map showing Deep Aquifer Wells

Figure 2 - Timeline of Well Installation in the Deep Aquifers with Summary of Deep Aquifer Groundwater Extractions

Table 1. Well Permit Applications Received by Category - November, 2019

Subbasin/Aquifer	Construction	Destruction	Repair	Other	Total	FY Total
Pressure 180-Foot Aquifer					0	1
Pressure 400-Foot Aquifer		2	2		4	9
Pressure Deep Aquifers	2				2	4
East Side Shallow					0	1
East Side Deep					0	3
Forebay					0	2
Upper Valley	1				1	3
Outside Zone 2C	1				1	31
Total	3	2	2		8	54

Legend

Area of Impact

- Agricultural
- Municipal
- Industrial
- Domestic
- Monitoring



Date: 12/20/2019

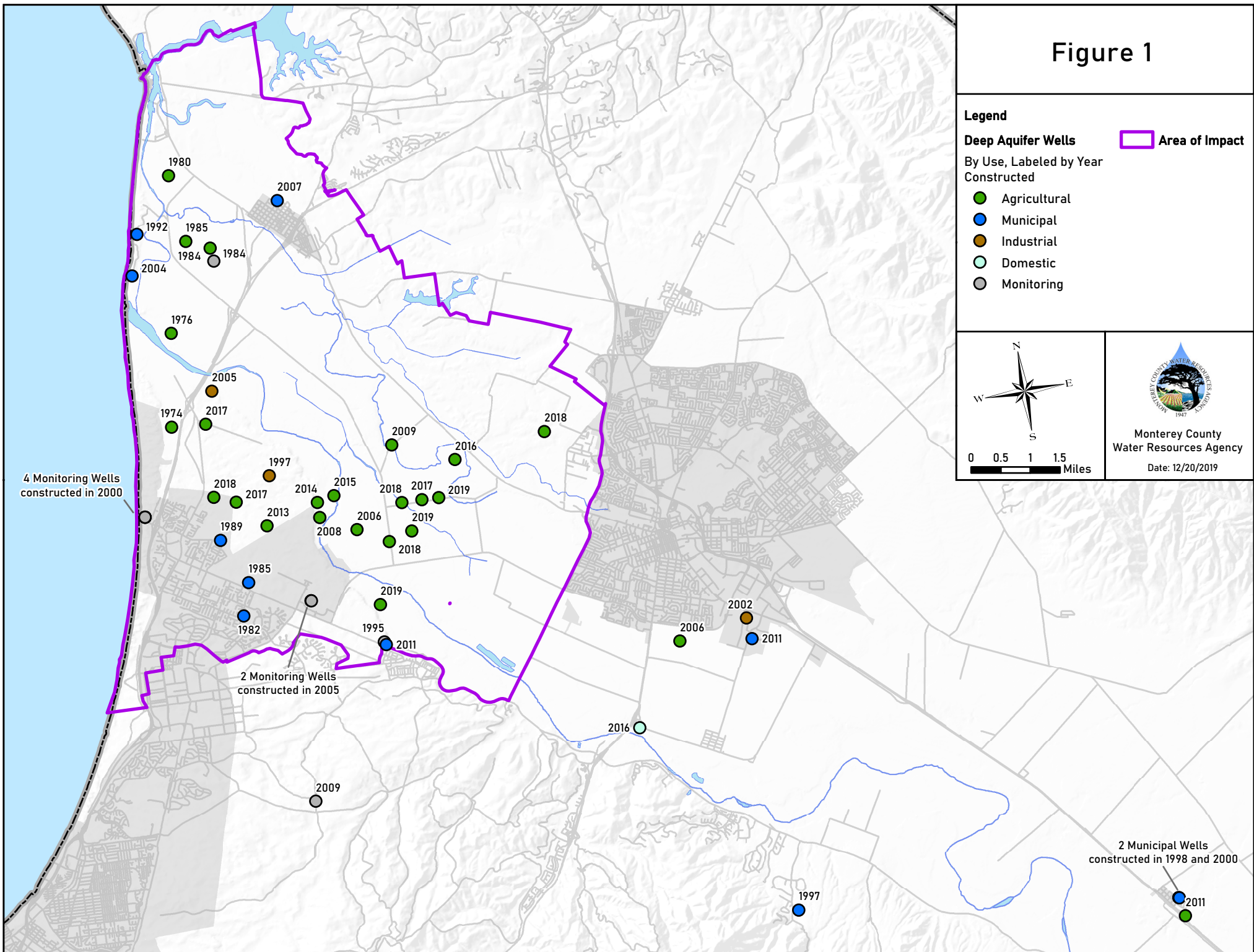
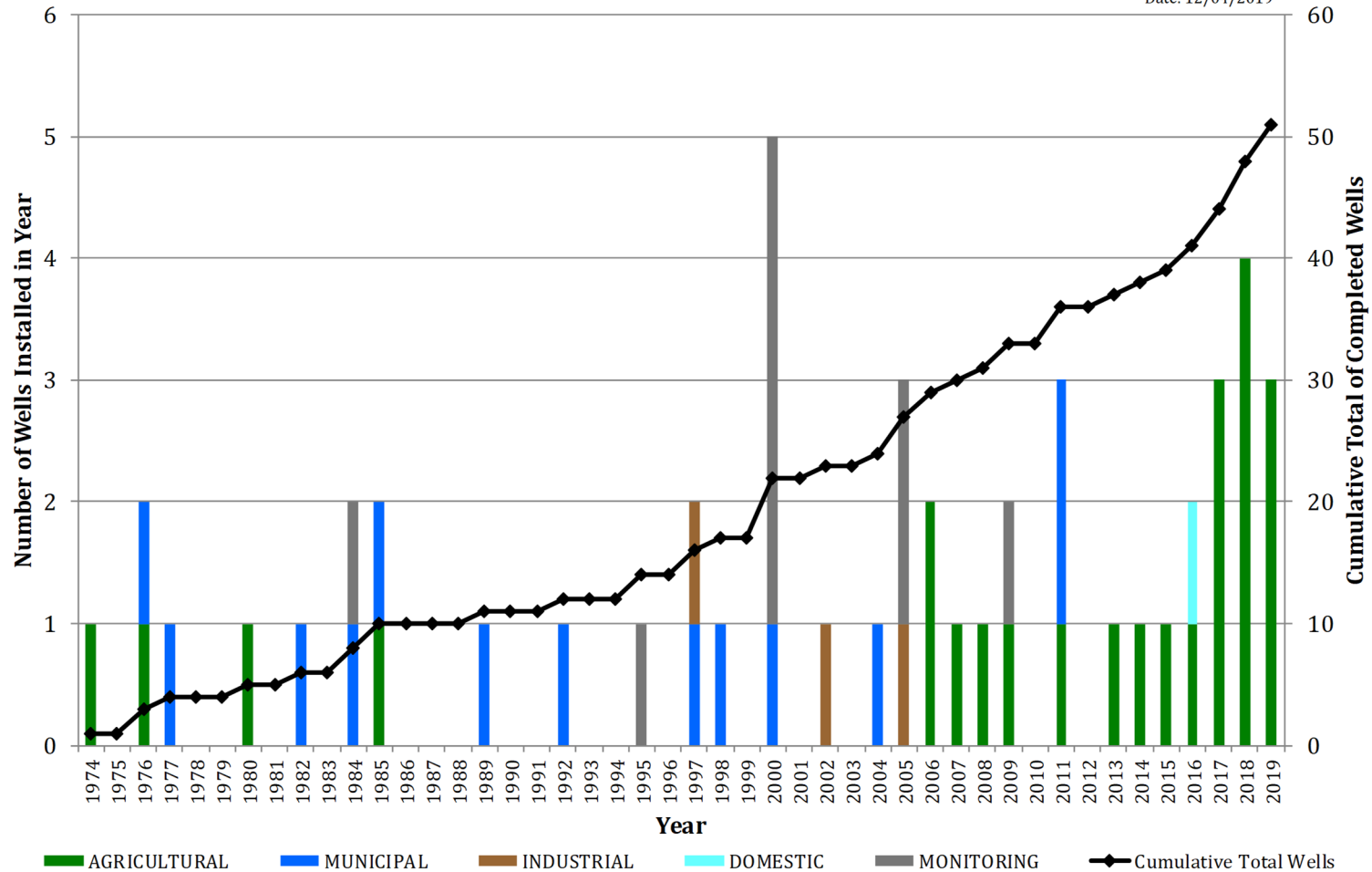


Figure 2

Timeline of Well Installation in Deep Aquifers of the 180/400 Foot Aquifer Subbasin



Source: MCWRA
Date: 12/04/2019



Deep Aquifers Groundwater Extraction History Since 1993*

1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
2,054	1,992	2,036	2,137	2,170	1,906	2,055	2,302	2,355	2,399	2,366	2,442	2,358	2,005	1,738	2,004	2,102	1,903	1,803	2,044	1,982	3,784	3,746	3,690	3,991	4,499
1,507	2,620	2,302	1,990	2,556	1,648	96	1	0	0	0	0	0	0	58	384	696	982	927	1,397	1,097	2,031	2,010	4,293	4,958	4,855
0	0	0	0	0	0	0	3	13	17	379	305	343	336	393	371	348	333	370	380	523	620	617	569	567	291
3,561	4,612	4,338	4,127	4,725	3,554	2,151	2,307	2,368	2,416	2,745	2,747	2,701	2,341	2,189	2,759	3,146	3,218	3,100	3,821	3,608	6,436	6,373	8,551	9,516	9,645

*Notes: Table includes all reported extractions data for the 29 Deep Aquifer production wells that have reported extractions since inception of the Agency's GEMS program in 1993. Data are reported in acre feet. Colors denote water use category (Municipal, Agricultural, Industrial). An additional eight recently constructed deep agricultural production wells not shown above have yet to report extractions as of Reporting Year 2018.