

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.

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 and Ordinance 5303 by the Monterey County Board of Supervisors (May 22, 2018 and June 26, 2018, respectively) have led to increased interest in data related to wells in and extractions from the Deep Aquifers (Figure 1).

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-seven (57) wells have been installed in the Deep Aquifers since 1974, with twenty-five (25) of those wells being constructed in the last ten years, including fourteen (14) within the last three years. Figure 2 includes a tabular historical summary of reported annual Deep Aquifer well extractions by water use category.

Three (3) additional permit applications have been submitted for new Deep Aquifers wells but construction has not been completed as of the date of this report. The proposed wells were applied for as replacement wells after the expiration of Ordinance No. 5302, which expired on May 21, 2020.

OTHER AGENCY INVOLVEMENT:

None

FINANCING:

None

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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

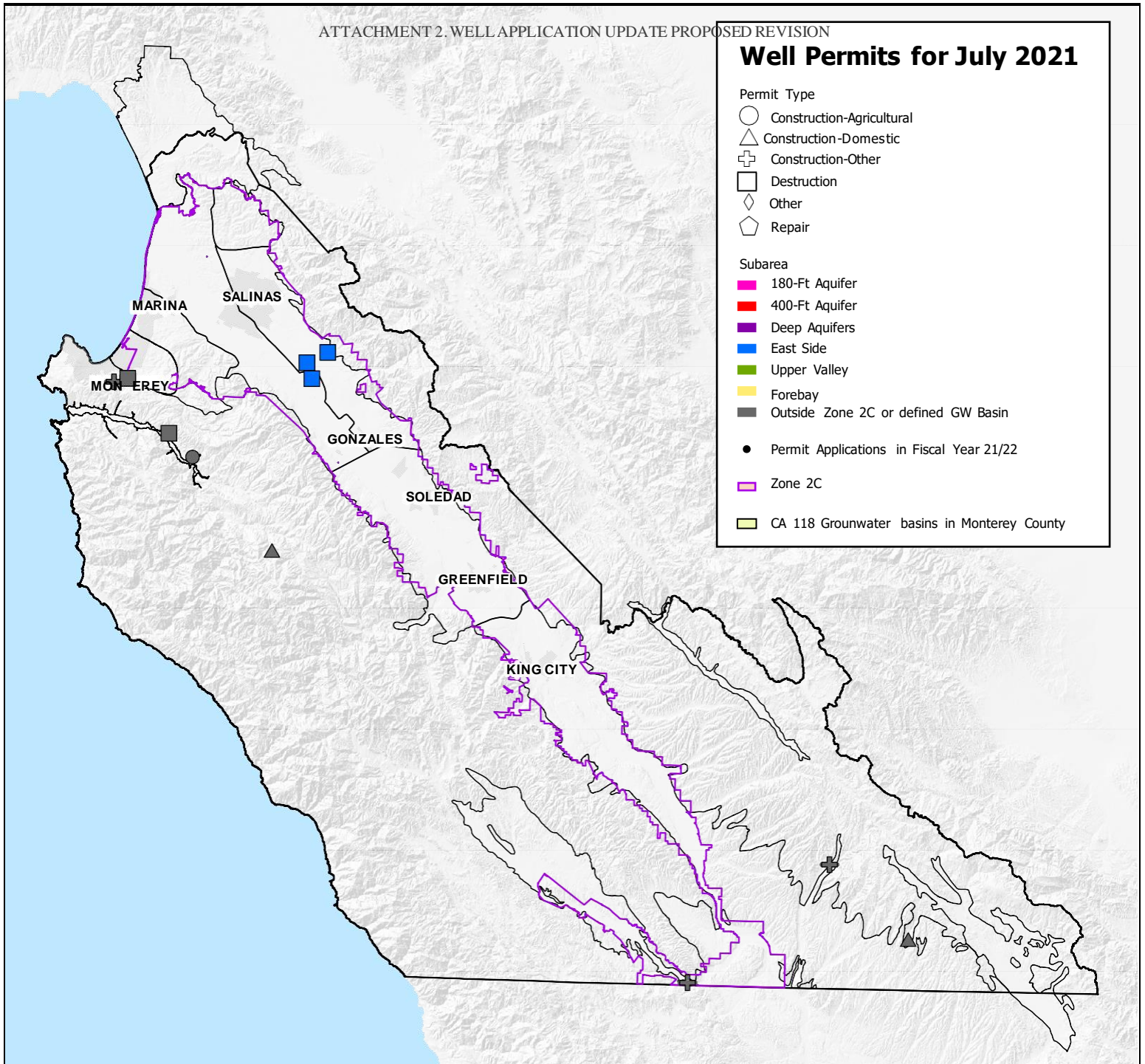
Well Permits for July 2021

Permit Type

- Construction-Agricultural
- △ Construction-Domestic
- ⊕ Construction-Other
- Destruction
- ◇ Other
- ◇ Repair

Subarea

- 180-Ft Aquifer
- 400-Ft Aquifer
- Deep Aquifers
- East Side
- Upper Valley
- Forebay
- Outside Zone 2C or defined GW Basin
- Permit Applications in Fiscal Year 21/22
- Zone 2C
- CA 118 Grounwater basins in Monterey County

**Table 1. Well Permit Applications Received by Category - July, 2021**

Subarea/ Aquifer	Construction	Destruction	Repair	Other	Total	FY (21/22) Total
180-Ft Aquifer						0
400-Ft Aquifer						0
Deep Aquifers						0
East Side	1	3			4	4
Forebay						0
Upper Valley						0
Outside Zone 2C, Undefined GW Basin	7	2			9	9
Total	8	5			13	13

Figure 1

Legend

Deep Aquifer Wells

Area of Impact

By Use, Labeled by Year
Constructed

- Agricultural
- Municipal
- Industrial
- Domestic
- Monitoring



0 0.5 1 1.5 Miles



Monterey County
Water Resources Agency
Date: 8/2/2021

4 Monitoring Wells
constructed in 2000

2 Monitoring Wells
constructed in 2005

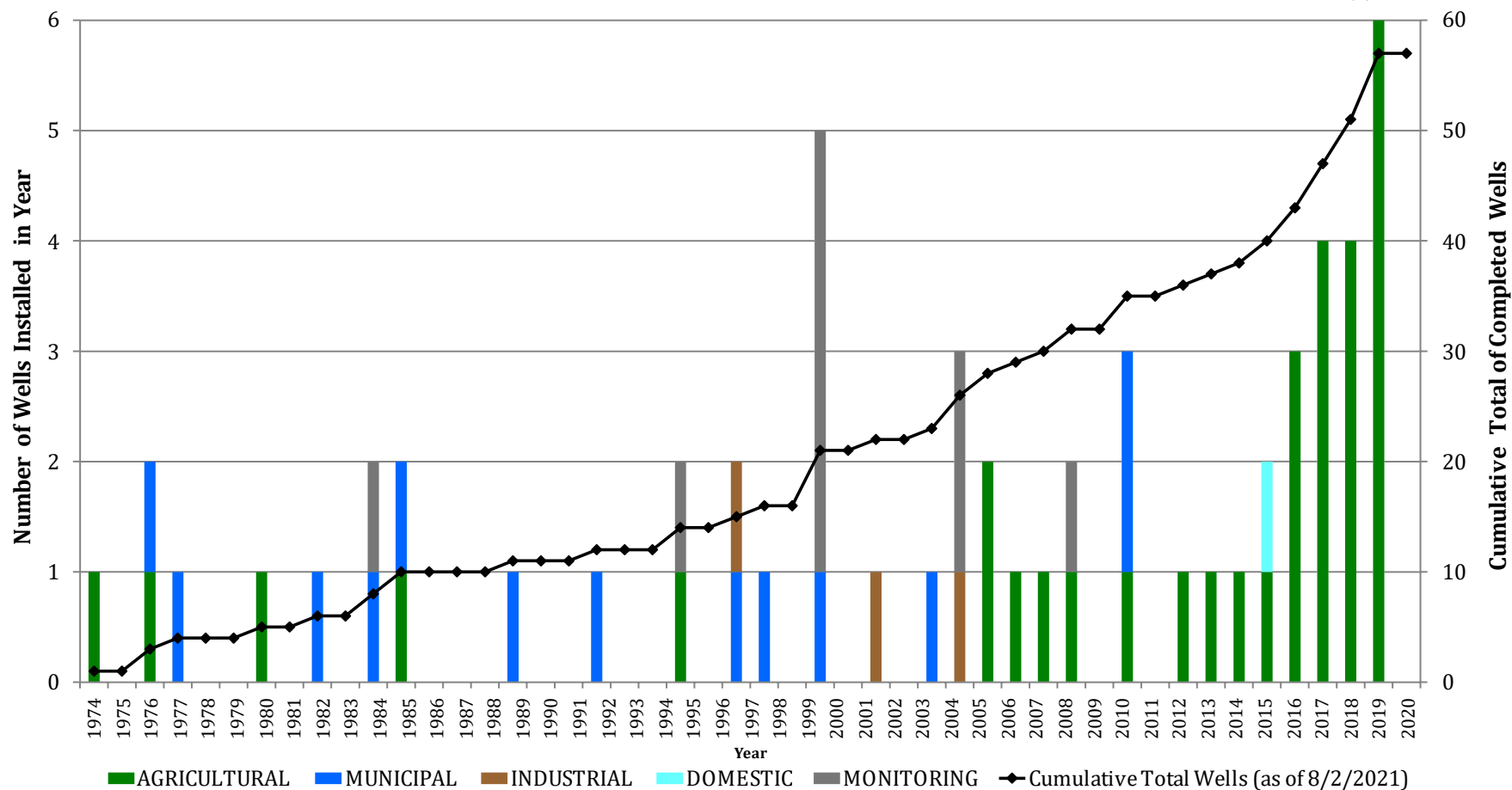
2 Municipal Wells
constructed in 1998 and 2000



Source: MCWRA
Date: 8/2/2021

Figure 2

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



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	2019
2,054	1,992	2,036	2,137	2,170	1,906	2,056	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	1,989	3,784	3,746	3,788	4,116	4,605	4,820
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	4,194	4,834	4,749	5,331
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	196
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	10,347

* Notes: Table includes all reported extraction data for the thirty-four (34) 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 twelve (12) recently constructed Deep Aquifer Agricultural production wells have yet to report extractions as of Reporting Year 2019.