

County of Monterey

1441 Schilling Place
Saffron Room
Salinas, CA 93901



Meeting Agenda

Wednesday, February 1, 2023

8:30 AM

IMPORTANT COVID-19 NOTICE ON PAGE 2-4
AVISO IMPORTANTE SOBRE COVID-19 EN LA PAGINA 2-4

Water Resources Agency Basin Management

Advisory Committee

John Baillie. Chair
Deidre Sullivan
Matthew Simis
David Bunn
Bill Lipe
Kevin Piearcy
Amy White
Marisela Cerda
Patrick Breen
Patrick Collins

**IMPORTANT NOTICE REGARDING COVID 19 AND PARTICIPATION IN THE BASIN
MANAGEMENT ADVISORY COMMITTEE MEETING**

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1. For ZOOM participation please join by computer audio at:

<https://montereycty.zoom.us/j/99621772720>

OR to participate by phone call any of these numbers below: +1 669 900 6833 US (San Jose)

+1 346 248 7799 US (Houston)

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Enter this Meeting ID number: 996 2177 2720 PASSWORD: 478310 when prompted. Please note there is no Participant Code, you will just hit # again after the recording prompts you. You will be placed in the meeting as an attendee; when you are ready to make a public comment, if joined by computer audio, please Raise your Hand; and by phone, please push *9 on your keypad.

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be made to read your comment into the record, but some comments may not be read due to time limitations. Comments received after an agenda item will be made part of the record if received prior to the end of the meeting.

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8. The Chair and/or Secretary may set reasonable rules as needed to conduct the meeting in an orderly manner.

AVISO IMPORTANTE SOBRE COVID 19 Y PARTICIPACIÓN EN LA REUNIÓN DEL COMITE DE ASESOR DE GESTION DE LA CUENCA

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8. El Presidente y / o Secretario pueden establecer reglas razonables según sea necesario para llevar a cabo la reunión de manera ordenada.

Call to Order

Roll Call

Committee Appointments

1. Appointment of Basin Management Advisory Committee Members for 2023

Public Comment

Committee Member Comments

Consent Calendar

2. Approve the Minutes of the Basin Management Advisory Committee meeting held on November 2, 2022.

Attachments: [Draft BMAC Minutes November 2, 2022](#)

Scheduled Items

3. Consider receiving the 2022 August Trough Groundwater Level and 2022 Seawater Intrusion Contour Maps

Attachments: [Board Report](#)
 [August Shallow 22](#)
 [August Deep 22](#)
 [180Ft Aquifer SWI22](#)
 [400Ft Aquifer SWI22](#)

Staff Reports

4. Update on Prop 1 Grant - *Protection of Domestic Drinking Water Supplies for the Lower Salinas Valley*
5. Update on New Monitoring Well RFB

Status Report

6. Update on the Well Permit Applications

Attachments: [Update Well Permit Applications](#)

Calendar

7. Consider future agenda items and set next meeting date

Adjournment



County of Monterey

Item No.1

Board Report

Board of Supervisors
Chambers
168 W. Alisal St., 1st Floor
Salinas, CA 93901

Legistar File Number: WRABMAC 23-008

February 01, 2023

Introduced: 1/24/2023

Current Status: Draft

Version: 1

Matter Type: WRA BMAC Item

Appointment of Basin Management Advisory Committee Members for 2023



County of Monterey

Item No.2

Board Report

Board of Supervisors
Chambers
168 W. Alisal St., 1st Floor
Salinas, CA 93901

Legistar File Number: WRABMAC 23-002

February 01, 2023

Introduced: 1/24/2023

Current Status: Draft

Version: 1

Matter Type: WRA BMAC Item

Approve the Minutes of the Basin Management Advisory Committee meeting held on November 2, 2022.

County of Monterey

1441 Schilling Place
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Salinas, CA 93901



Meeting Minutes

Wednesday, November 2, 2022

8:30 AM

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AVISO IMPORTANTE SOBRE COVID-19 EN LA PAGINA 2-4

Water Resources Agency Basin Management Advisory Committee

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8. El Presidente y / o Secretario pueden establecer reglas razonables según sea necesario para llevar a cabo la reunión de manera ordenada.

Call to Order

The meeting was call to order at 8:35 a.m.

Roll Call

Present: John Baillie (left meeting at 8:46 a.m.), Matthew Simis, Bill Lipe, Kevin Piearcy, Amy White (arrived at 8:35 a.m.), Patrick Breen, Patrick Collins (arrived at 8:35 a.m.)
Absent: Deidre Sullivan, David Bunn, Marisela Cerda

Public Comment

None

Committee Member Comments

None

Consent Calendar

Upon Motion by Matthew Simis, Second by Bill Lipe the Committee approved the Consent

Calendar of the Basin Management Advisory Committee meeting.

Ayes: John Baillie, Matthew Simis, Bill Lipe, Kevin Piearcy, Amy White, Patrick Breen, Patrick Collins

Noes: None

Absent: Deidre Sullivan, David Bunn, Marisela Cerda

1. Approve the Minutes of the Basin Management Advisory Committee meeting held on August 3, 2022.

Attachments: [Draft BMAC Minutes August 3, 2022](#)

Scheduled Matters

2. Receive the Salinas Valley Water Conditions Report for the 4th Quarter of Water Year 2021-2022

Attachments: [Salinas Valley Water Conditions 4thQuarter WY22](#)

Upon Motion by Matthew Simis, and Second by Amy White the Committee received the Salinas Valley Water Conditions Report for the 4th Quarter of Water Year 2021-2022.

Ayes: John Baillie, Matthew Simis, David Bunn, Bill Lipe, Kevin Piearcy, Amy White, Marisela Cerda, Patrick

Breen, Patrick Collins

Noes: None

Absent: Deidre Sullivan, David Bunn, Marisela Cerda

3. Support recommending that the Board of Directors of the Monterey County Water Resources Agency recommend that the Board of Supervisors of the Monterey County Water Resources Agency approve Ordinance No. _____ amending Ordinance No. 03790 concerning the destruction of groundwater wells in MCWRA's Zone 2B.

Attachments: [Board Report](#)

[Proposed Ordinance No. _____ \(tracked changes\)](#)

Upon Motion by Bill Lipe, Second by Amy White Continued recommendation to the Board of Directors of the Monterey County Water Resources Agency recommend that the Board of Supervisors of the Monterey County Water Resources Agency approve Ordinance No. _____ amending Ordinance No. 03790 concerning the destruction of the groundwater wells in MCWRA's Zone 2B. Committee also recommended more detailed information.

Ayes: Kevin Piearcy, Patrick Breen, Patrick Collins

Noes: Amy White, Bill Lipe

Abstained: Matthew Simis

Absent: John Baillie, Deidre Sullivan, David Bunn, Marisela Cerda

Staff Reports

4. Update on Data Collection Activities

5. Update on Prop 1 Grant: *Protection of Domestic Drinking Water Supplies for the Lower Salinas Valley*

Attachments: [Well Status Chart](#)

6. Update on Well Permitting Process

Attachments: [Letter and Verification Form from SVBGSA](#)

7. Update on New Monitoring Well RFB

Attachments: [Proposed Well Location Map](#)

Status Report

8. Update on Well Permit Applications

Attachments: [Well Permit Applications](#)

Calendar

9. Consider future agenda items and set next meeting date

Adjournment

The meeting adjourned at 9:45 a.m.



County of Monterey

Item No.3

Board Report

Board of Supervisors
Chambers
168 W. Alisal St., 1st Floor
Salinas, CA 93901

Legistar File Number: WRABMAC 23-003

February 01, 2023

Introduced: 1/24/2023

Current Status: Agenda Ready

Version: 1

Matter Type: WRA BMAC Item

Consider receiving the 2022 August Trough Groundwater Level and 2022 Seawater Intrusion Contour Maps

RECOMMENDATION:

It is recommended that the Monterey County Water Resources Agency Basin Management Advisory Committee:

Receive the 2022 August Trough Groundwater Level and 2022 Seawater Intrusion Contour Maps

SUMMARY/DISCUSSION:

The Monterey County Water Resources Agency (Agency) is responsible for data collection and analysis of groundwater data throughout the Salinas Valley to support the ongoing Groundwater Level contouring, Seawater Intrusion mapping, and other programs related to current groundwater conditions. Conditions are assessed throughout the year to better understand how aquifers are responding during different hydrologic conditions as well as the relative groundwater storage fluctuations that occur on an annual basis. These activities align with Strategic Plan Goals B7, *Use of data and analysis to make informed decisions based on science* and E1, *Improve public outreach to increase transparency, communication, education and information about Agency projects and programs*.

August Trough Groundwater Level Survey - (Program No. 23 Groundwater monitoring of dedicated wells and No. 50 August Trough

On a single day in August, Agency staff conducts an intensive groundwater level survey of the northern Salinas Valley. Groundwater levels (GWLs) are sampled at 143 wells from Chualar to the coast, to obtain a snapshot of conditions within and beyond the seawater intrusion fronts. This is done during a time of the year when aquifers are most stressed by pumping. One of the key purposes of the survey is to monitor and assess the forces driving seawater intrusion, in particular groundwater level gradients sloping inland from the coast, which are most pronounced when pumping is at its seasonal peak.

The 2022 August Trough contours for the 180-Foot and East Side Shallow Aquifers are included as Attachment A. Compared to the 2021 survey, there was a decline in groundwater levels of 2-4 feet near the coast, meaning groundwater elevations remained below sea level. The East Side trough and groundwater levels in the area north of Salinas deepened by 10 feet. Groundwater levels in the area south of Salinas and towards Chualar saw declines of 4 to 12 feet from last year.

The 2022 August Trough contours for the 400-Foot and East Side Deep Aquifers are included as Attachment B. Near the coast, groundwater levels declined 3-6feet southwest of the Salinas River Lagoon, 10feet towards Castroville, and declined 20-25feet in the Espinosa Lake area. The -20 foot elevation contour is south of the Salinas Lagoon, meaning groundwater elevations in the 400-Foot Aquifer remained between 20 and 30 feet below sea level at the coast. The East Side trough widened towards the area north of Salinas and deepened by 10feet. Groundwater levels in the area south of Salinas towards Chualar saw declines of 5 to 12 feet from last year.

2022 Seawater Intrusion (SWI) Maps - (Program No. 23 Groundwater monitoring of dedicated wells and No. 52 Coastal GW Quality Monitoring)

Seawater intrusion was first detected in the Salinas Valley Groundwater Basin in 1933. As seawater intrudes into an aquifer there is a transition zone where seawater and freshwater mix. The chloride concentrations in this transition zone are between 50 mg/L, which is the native water quality of the 180-Foot and 400-Foot Aquifers, and 19,000 mg/L, which is the concentration of chloride in Pacific Ocean water.

The Agency uses the 500 mg/L chloride iso-contour as the threshold for determining seawater intrusion into the coastal aquifers. This definition of “seawater intruded” is described in Monterey County Water Resources Agency Ordinance No. 03790, Section 1.01.13. A chloride concentration of 500 mg/L is roughly ten times the native concentration of chloride in these aquifers, two times the regulatory limit set by the E.P.A Drinking Water Secondary Maximum Contaminant Level (250 mg/L) and exceeds the USDA concentration (350 mg/L) for water considered to be of “Class III - injurious or unsatisfactory” quality for agricultural irrigation.

Each summer, Agency staff samples approximately 120 agricultural, urban purveyor, and small diameter monitoring wells in the coastal area of the northern Salinas Valley. Water quality samples are collected from the agricultural and urban wells twice, once in June and again in August. The Agency’s network of small diameter monitoring wells is sampled once in September.

The water quality samples are analyzed by the County’s Consolidated Chemistry Lab (ELAP # 1395). The data are then evaluated with several geochemical tools and chloride isocontours are developed using an ArcMap interpolation tool to map the approximate location of the seawater intrusion front. Supporting data from several other Agency programs are used to provide additional data validation of the chloride isocontour locations. The new polygons depicting the areas that increased above the seawater intrusion threshold are then added to the Historical Seawater Intrusion maps, which illustrate the seawater intrusion front while highlighting the changes seen over the period of record. Additionally, this year the 250 mg/L isocontours are included on both the 180-Ft Aquifer and 400-Ft Aquifer Seawater Intrusion Maps.

In 2022 the 500 mg/L or greater chloride areas show no advancement within the 180-Foot Aquifer (Attachment C).

Within the 400-Foot Aquifer, the 500 mg/L or greater chloride area of the main seawater intrusion front showed advancement occurring in two areas, along the middle section near where the Salinas

River crosses Highway 1 and along the southern lobe, near Blanco Road (Attachment D). Interestingly, groundwater levels in both these areas have declined between 5 and 10 feet.

Additionally, the large southern “island” of seawater intrusion that is not contiguous with the regional seawater intrusion front expanded along its east and south margins and the “arm” that previously joined the southern and middle islands in 2020 also showed expansion. This occurred in the area of Nashua and Cooper Roads and groundwater levels have declined in these areas by 10 to 15 feet.

OTHER AGENCY INVOLVEMENT:

None.

FINANCING:

There is no financial impact in receiving this report. Activities associated with this program are included in Funds 111 & 116 of the FY 22-23 budget.

Prepared by: Nicole Koerth, Hydrologist, (831) 755-4860
Tamara Voss, Associate Hydrologist, (831) 755-4860

Attachments:

1. Attachment A: August Trough 2022 Groundwater Elevation Contours, 180-Ft and East Side Shallow Aquifers
2. Attachment B: August Trough 2022 Groundwater Elevation Contours, 400-Ft and East Side Deep Aquifers
3. Attachment C: 2022 Historical Seawater Intrusion Map, 180-Ft Aquifer
4. Attachment D: 2022 Historical Seawater Intrusion Map, 400-Ft Aquifer



County of Monterey

Item No.3

Board Report

Board of Supervisors
Chambers
168 W. Alisal St., 1st Floor
Salinas, CA 93901

Legistar File Number: WRABMAC 23-003

February 01, 2023

Introduced: 1/24/2023

Current Status: Agenda Ready

Version: 1

Matter Type: WRA BMAC Item

Consider receiving the 2022 August Trough Groundwater Level and 2022 Seawater Intrusion Contour Maps

RECOMMENDATION:

It is recommended that the Monterey County Water Resources Agency Basin Management Advisory Committee:

Receive the 2022 August Trough Groundwater Level and 2022 Seawater Intrusion Contour Maps

SUMMARY/DISCUSSION:

The Monterey County Water Resources Agency (Agency) is responsible for data collection and analysis of groundwater data throughout the Salinas Valley to support the ongoing Groundwater Level contouring, Seawater Intrusion mapping, and other programs related to current groundwater conditions. Conditions are assessed throughout the year to better understand how aquifers are responding during different hydrologic conditions as well as the relative groundwater storage fluctuations that occur on an annual basis. These activities align with Strategic Plan Goals B7, *Use of data and analysis to make informed decisions based on science* and E1, *Improve public outreach to increase transparency, communication, education and information about Agency projects and programs*.

August Trough Groundwater Level Survey - (Program No. 23 Groundwater monitoring of dedicated wells and No. 50 August Trough

On a single day in August, Agency staff conducts an intensive groundwater level survey of the northern Salinas Valley. Groundwater levels (GWLs) are sampled at 143 wells from Chualar to the coast, to obtain a snapshot of conditions within and beyond the seawater intrusion fronts. This is done during a time of the year when aquifers are most stressed by pumping. One of the key purposes of the survey is to monitor and assess the forces driving seawater intrusion, in particular groundwater level gradients sloping inland from the coast, which are most pronounced when pumping is at its seasonal peak.

The 2022 August Trough contours for the 180-Foot and East Side Shallow Aquifers are included as Attachment A. Compared to the 2021 survey, there was a decline in groundwater levels of 2-4 feet near the coast, meaning groundwater elevations remained below sea level. The East Side trough and groundwater levels in the area north of Salinas deepened by 10 feet. Groundwater levels in the area south of Salinas and towards Chualar saw declines of 4 to 12 feet from last year.

The 2022 August Trough contours for the 400-Foot and East Side Deep Aquifers are included as Attachment B. Near the coast, groundwater levels declined 3-6feet southwest of the Salinas River Lagoon, 10feet towards Castroville, and declined 20-25feet in the Espinosa Lake area. The -20 foot elevation contour is south of the Salinas Lagoon, meaning groundwater elevations in the 400-Foot Aquifer remained between 20 and 30 feet below sea level at the coast. The East Side trough widened towards the area north of Salinas and deepened by 10feet. Groundwater levels in the area south of Salinas towards Chualar saw declines of 5 to 12 feet from last year.

2022 Seawater Intrusion (SWI) Maps - (Program No. 23 Groundwater monitoring of dedicated wells and No. 52 Coastal GW Quality Monitoring)

Seawater intrusion was first detected in the Salinas Valley Groundwater Basin in 1933. As seawater intrudes into an aquifer there is a transition zone where seawater and freshwater mix. The chloride concentrations in this transition zone are between 50 mg/L, which is the native water quality of the 180-Foot and 400-Foot Aquifers, and 19,000 mg/L, which is the concentration of chloride in Pacific Ocean water.

The Agency uses the 500 mg/L chloride iso-contour as the threshold for determining seawater intrusion into the coastal aquifers. This definition of “seawater intruded” is described in Monterey County Water Resources Agency Ordinance No. 03790, Section 1.01.13. A chloride concentration of 500 mg/L is roughly ten times the native concentration of chloride in these aquifers, two times the regulatory limit set by the E.P.A Drinking Water Secondary Maximum Contaminant Level (250 mg/L) and exceeds the USDA concentration (350 mg/L) for water considered to be of “Class III - injurious or unsatisfactory” quality for agricultural irrigation.

Each summer, Agency staff samples approximately 120 agricultural, urban purveyor, and small diameter monitoring wells in the coastal area of the northern Salinas Valley. Water quality samples are collected from the agricultural and urban wells twice, once in June and again in August. The Agency’s network of small diameter monitoring wells is sampled once in September.

The water quality samples are analyzed by the County’s Consolidated Chemistry Lab (ELAP # 1395). The data are then evaluated with several geochemical tools and chloride isocontours are developed using an ArcMap interpolation tool to map the approximate location of the seawater intrusion front. Supporting data from several other Agency programs are used to provide additional data validation of the chloride isocontour locations. The new polygons depicting the areas that increased above the seawater intrusion threshold are then added to the Historical Seawater Intrusion maps, which illustrate the seawater intrusion front while highlighting the changes seen over the period of record. Additionally, this year the 250 mg/L isocontours are included on both the 180-Ft Aquifer and 400-Ft Aquifer Seawater Intrusion Maps.

In 2022 the 500 mg/L or greater chloride areas show no advancement within the 180-Foot Aquifer (Attachment C).

Within the 400-Foot Aquifer, the 500 mg/L or greater chloride area of the main seawater intrusion front showed advancement occurring in two areas, along the middle section near where the Salinas

River crosses Highway 1 and along the southern lobe, near Blanco Road (Attachment D). Interestingly, groundwater levels in both these areas have declined between 5 and 10 feet.

Additionally, the large southern “island” of seawater intrusion that is not contiguous with the regional seawater intrusion front expanded along its east and south margins and the “arm” that previously joined the southern and middle islands in 2020 also showed expansion. This occurred in the area of Nashua and Cooper Roads and groundwater levels have declined in these areas by 10 to 15 feet.

OTHER AGENCY INVOLVEMENT:

None.

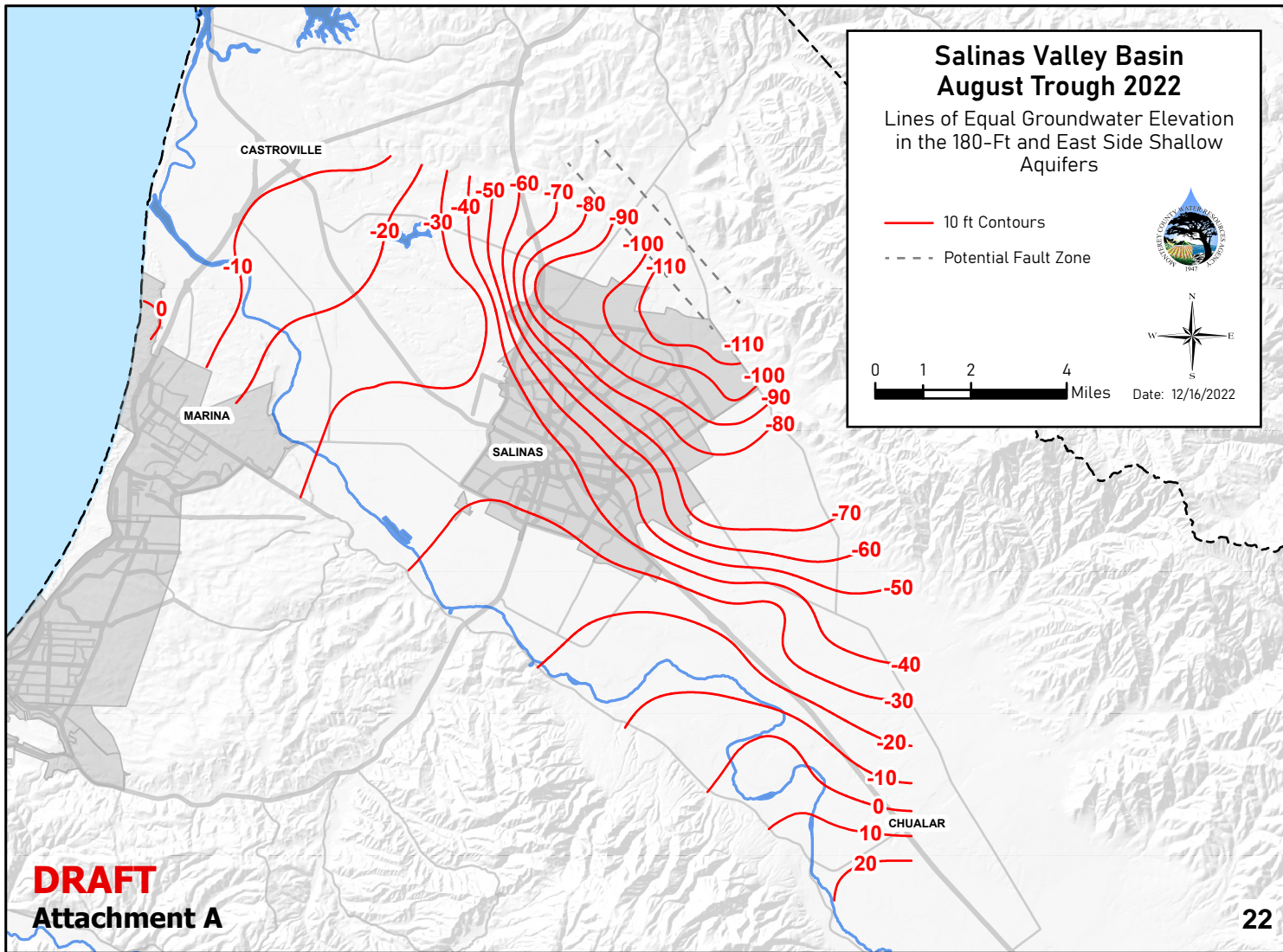
FINANCING:

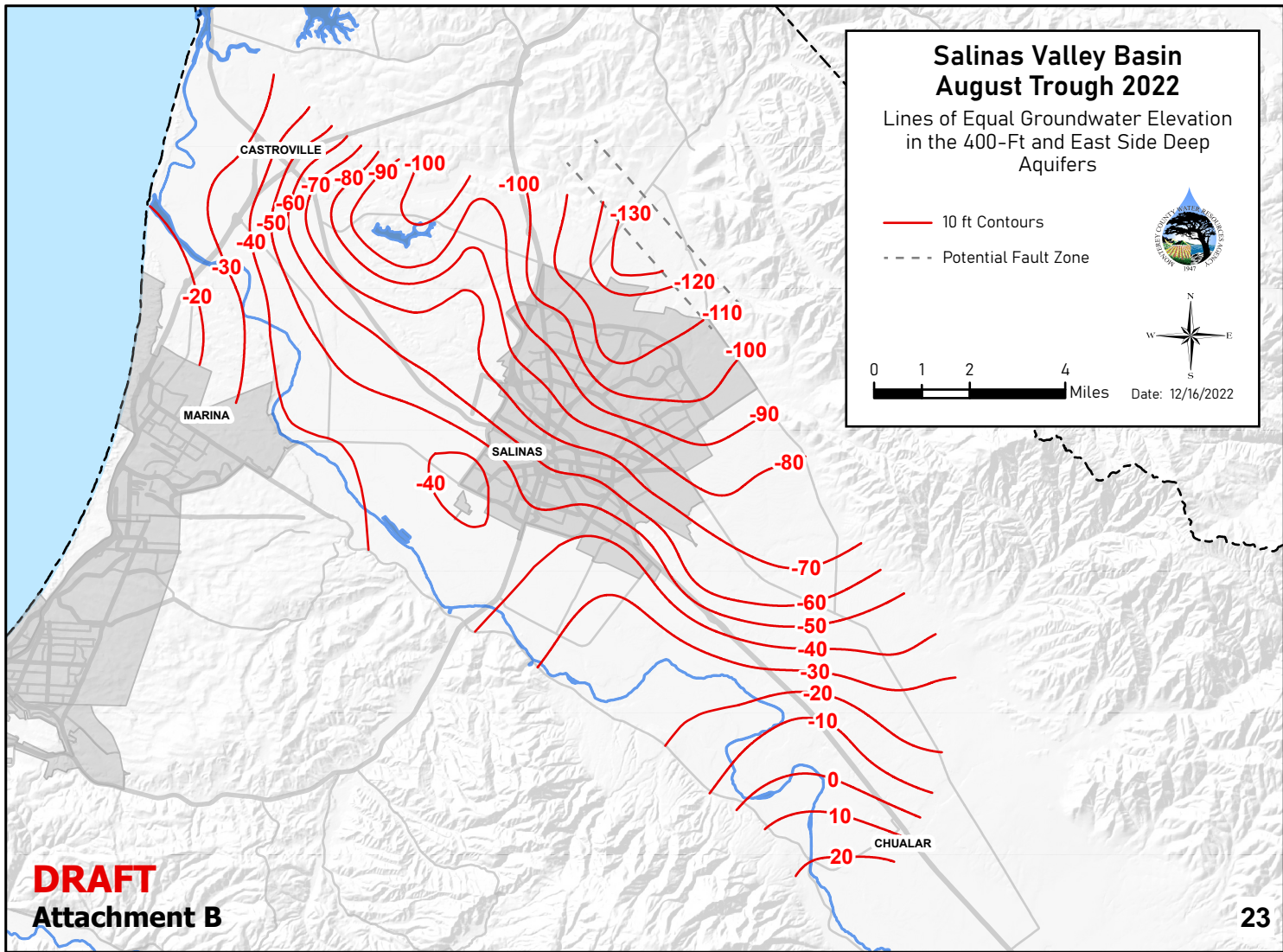
There is no financial impact in receiving this report. Activities associated with this program are included in Funds 111 & 116 of the FY 22-23 budget.

Prepared by: Nicole Koerth, Hydrologist, (831) 755-4860
Tamara Voss, Associate Hydrologist, (831) 755-4860

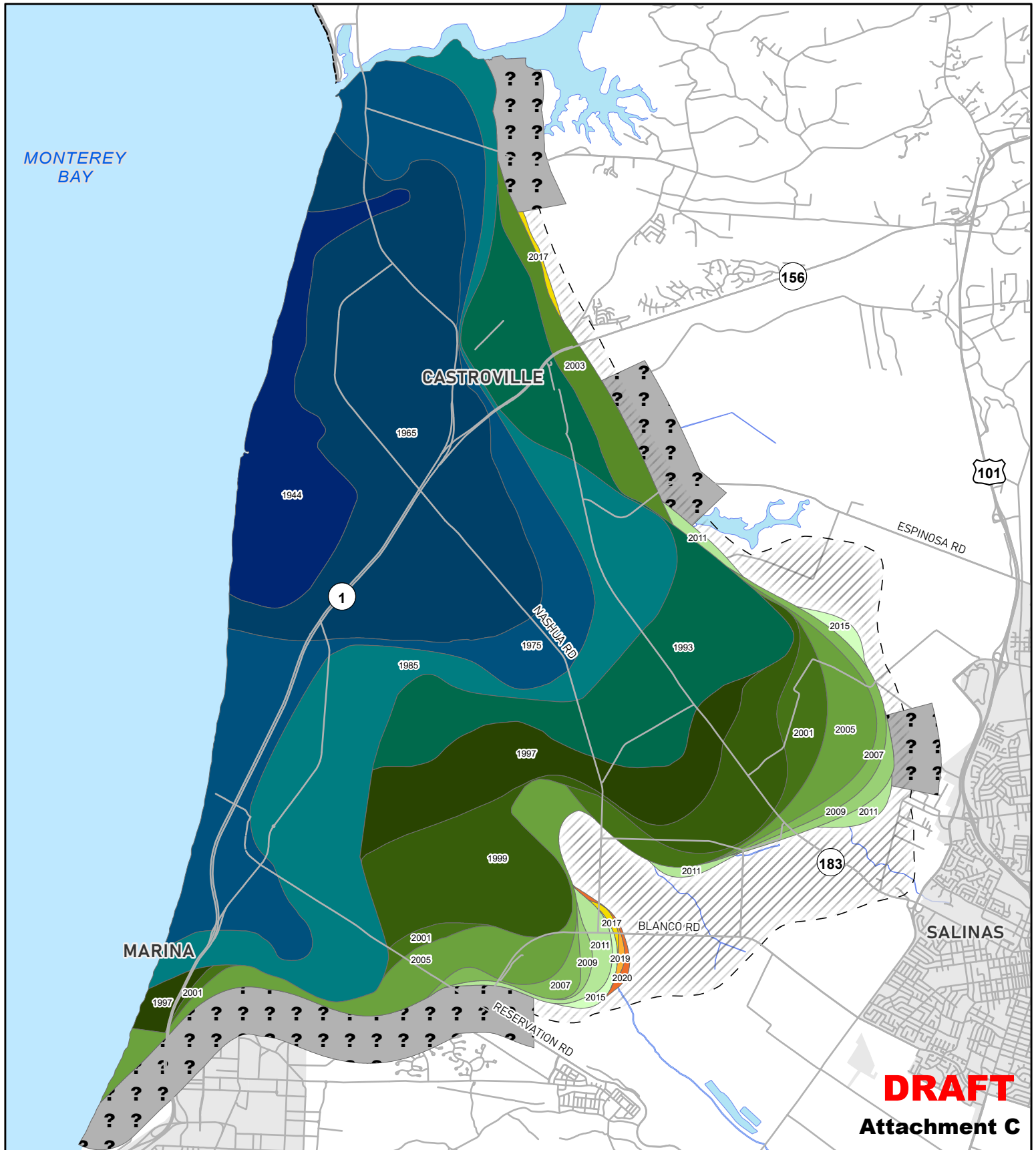
Attachments:

1. Attachment A: August Trough 2022 Groundwater Elevation Contours, 180-Ft and East Side Shallow Aquifers
2. Attachment B: August Trough 2022 Groundwater Elevation Contours, 400-Ft and East Side Deep Aquifers
3. Attachment C: 2022 Historical Seawater Intrusion Map, 180-Ft Aquifer
4. Attachment D: 2022 Historical Seawater Intrusion Map, 400-Ft Aquifer





DRAFT
Attachment B

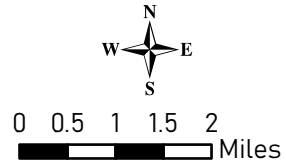


Seawater Intruded Areas By Year

1944	2003	2020
1965	2005	2021 (No Change)
1975	2007	2022 (No Change)
1985	2009	250 mg/L area
1993	2011	250 mg/L line
1997	2015	No Data
1999	2017	
2001	2019	

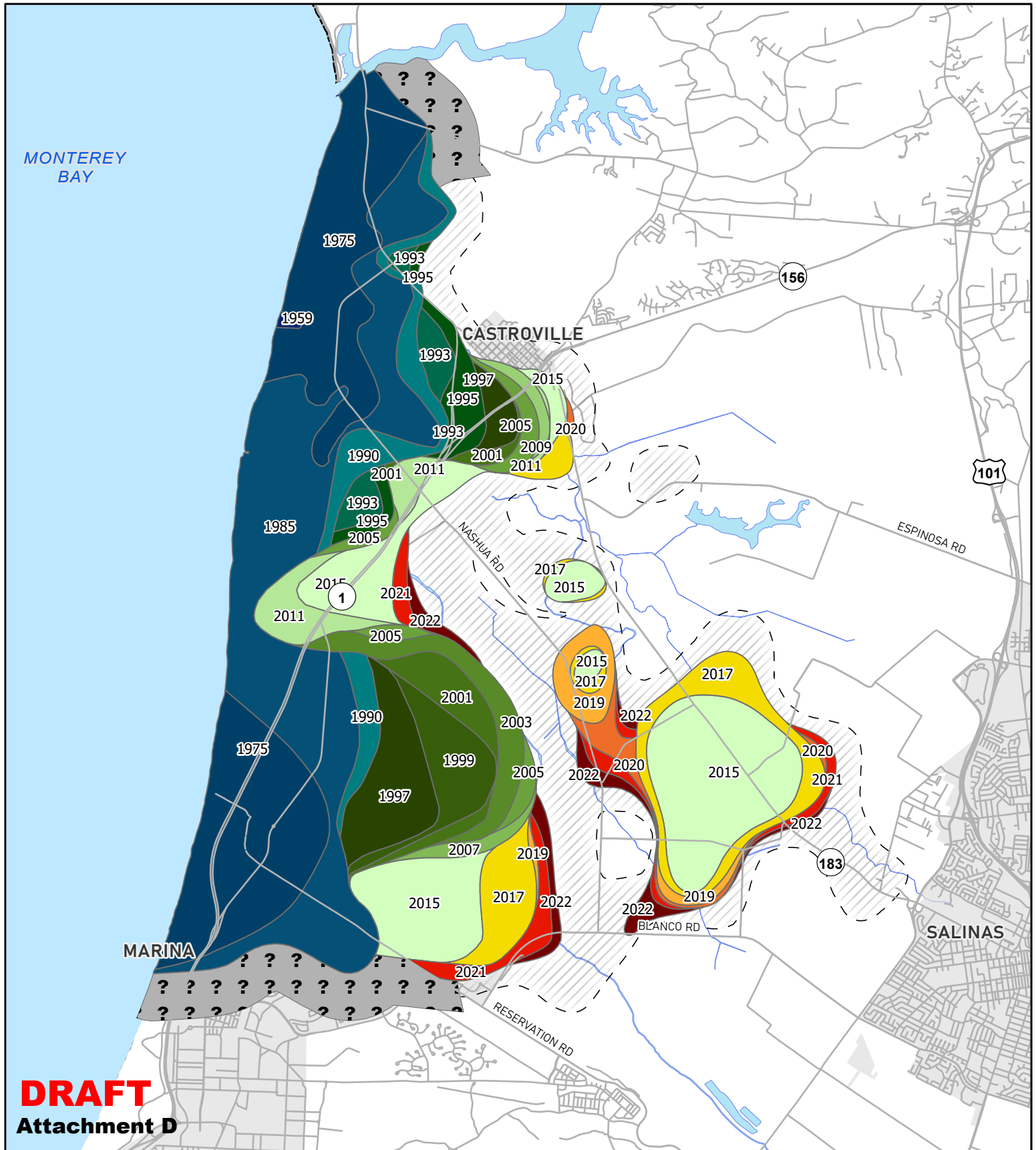
Historical Seawater Intrusion Map

180-Foot Aquifer
500 mg/L or Greater Chloride Areas



DRAFT
Attachment C



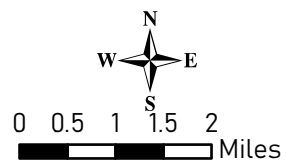


DRAFT
Attachment D

Seawater Intruded Areas By Year

1959	2001	2019
1975	2003	2020
1985	2005	2021
1990	2007	2022
1993	2009	- - - 250 mg/L line
1995	2011	250 mg/L area
1997	2015	?? No Data
1999	2017	

Historical Seawater Intrusion Map 400-Foot Aquifer 500 mg/L or Greater Chloride Areas





County of Monterey

Item No.4

Board Report

Board of Supervisors
Chambers
168 W. Alisal St., 1st Floor
Salinas, CA 93901

Legistar File Number: WRABMAC 23-004

February 01, 2023

Introduced: 1/24/2023

Current Status: Draft

Version: 1

Matter Type: WRA BMAC Item

Update on Prop 1 Grant - *Protection of Domestic Drinking Water Supplies for the Lower Salinas Valley*



County of Monterey

Item No.5

Board Report

Board of Supervisors
Chambers
168 W. Alisal St., 1st Floor
Salinas, CA 93901

Legistar File Number: WRABMAC 23-005

February 01, 2023

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Matter Type: WRA BMAC Item

Update on New Monitoring Well RFB



County of Monterey

Item No.6

Board Report

Board of Supervisors
Chambers
168 W. Alisal St., 1st Floor
Salinas, CA 93901

Legistar File Number: WRABMAC 23-006

February 01, 2023

Introduced: 1/24/2023

Current Status: Draft

Version: 1

Matter Type: WRA BMAC Item

Update on the Well Permit Applications

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 has provided EHB a review within 2.0 business days, on average, for permits received in December 2022, and 2.7 business days for Fiscal Year 2022/2023. 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.

The Agency conducts a well impact assessment for non-replacement domestic and high-capacity wells in fulfillment of the County's mandate to implement policies of the 2010 Monterey County General Plan. This month, none of the well impact assessments performed indicated potential for significant adverse impacts to existing domestic wells, water system wells, or in-stream flows.

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-two (22) of those wells being constructed in the last ten years, including six (6) 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

Prepared by: Nicole Koerth, 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

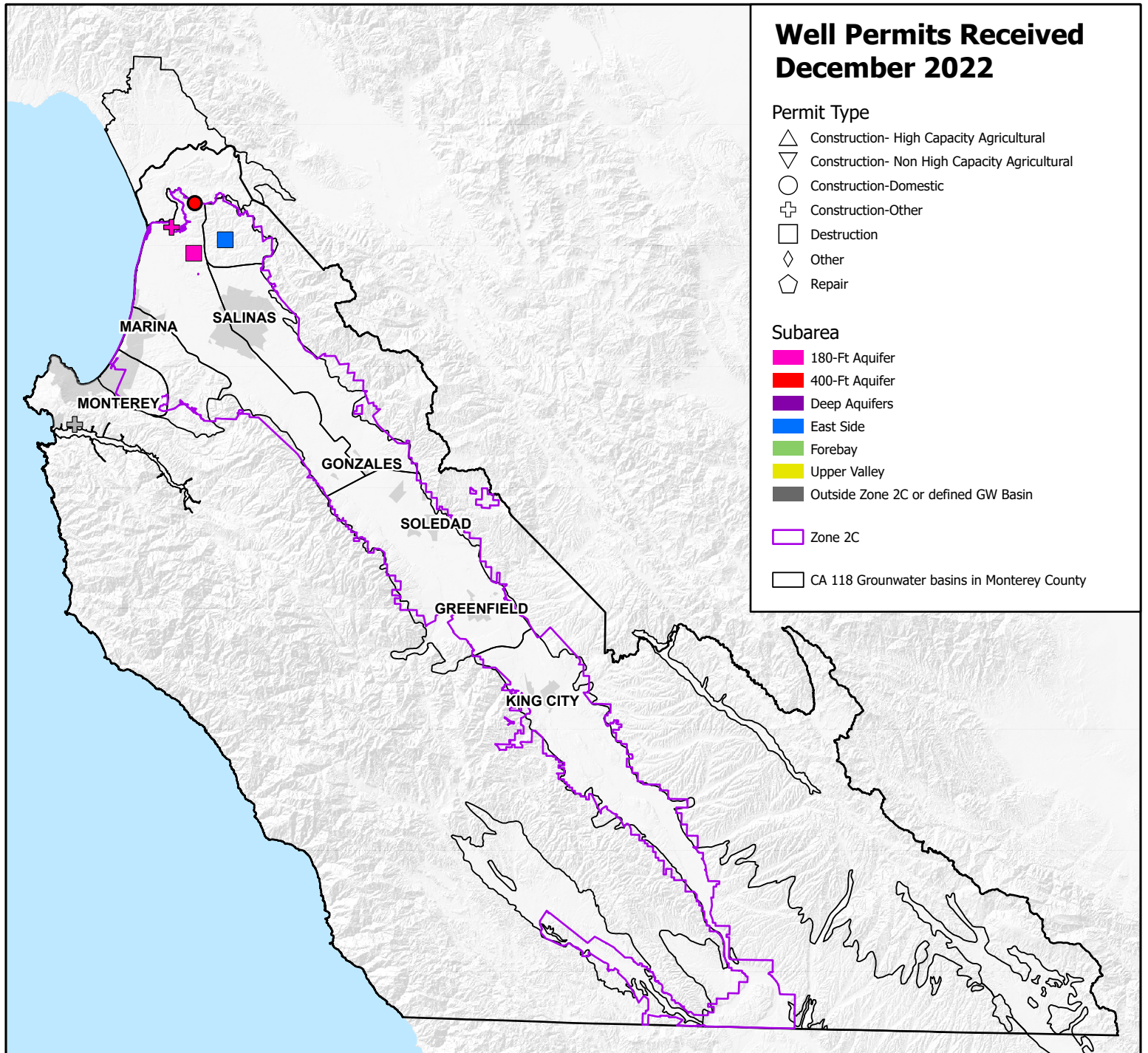


Table 1. Well Permit Applications Received by Category - December, 2022

Subarea/ Aquifer	Construction: Agricultural		Construction: Domestic	Construction: Other	Destruction	Repair	Other	Monthly Total
	High Capacity	Non High Capacity						
180-Ft Aquifer				1	1			2
400-Ft Aquifer			1					1
Deep Aquifers								
East Side					1			1
Forebay								
Upper Valley								
Outside Zone 2C, Undefined GW Basin				1				1
Total			1	2	2			5

Figure 1

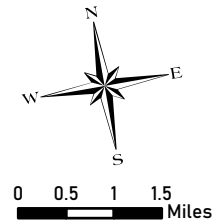
Legend

Deep Aquifer Wells

By Use, Labeled by Year Constructed

- Agricultural
- Municipal
- Industrial
- Domestic
- Monitoring

Area of Impact



Monterey County
Water Resources Agency

Date: 1/3/2023

4 Monitoring Wells
constructed in 2000

2 Monitoring Wells
constructed in 2005

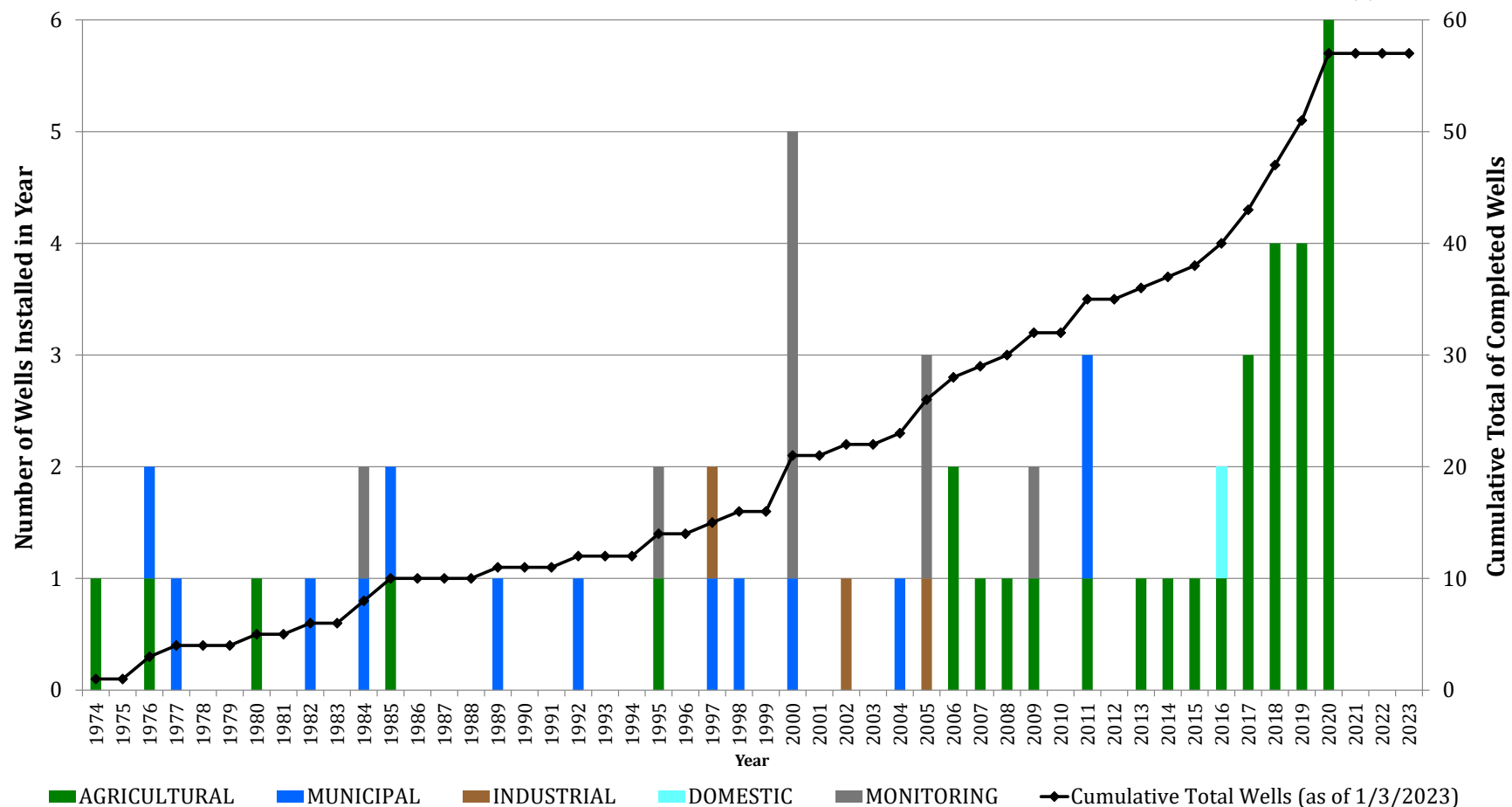
2 Municipal Wells
constructed in 1998 and 2000

Figure 2

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



Source: MCWRA
Date: 1/3/2023



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	2020	2021
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	4,264	4,216
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	6,996	8,820
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	84	42
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	11,344	13,079

* Notes: Table includes all reported extraction data for the forty-five (45) 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).



County of Monterey

Item No.7

Board Report

Board of Supervisors
Chambers
168 W. Alisal St., 1st Floor
Salinas, CA 93901

Legistar File Number: WRABMAC 23-007

February 01, 2023

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Matter Type: WRA BMAC Item

Consider future agenda items and set next meeting date