

# County of Monterey

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

# Legislation Details (With Board Report)

File #: **WRAG 20-**

094

2/24/2020

WR General Agenda Status: Received

Type:

In control: Board of Supervisors of the Monterey County Water

**GWL Contour and Historical SWI Maps** 

Resources Agency

On agenda: 3/10/2020 Final action:

Title: Consider receiving 2019 Groundwater Level Contour and Historical Seawater Intrusion Maps.

Name:

Sponsors:

File created:

Indexes:

Code sections:

Attachments: 1. Board Report, 2. 1. 2019 August GWL P180 ESShallow Aquifer, 3. 2. 2019 August GWL P400

> ESDeep Aquifer, 4. 3. 2019 Fall GWL P180 ESShallow Forebay UV Aquifer, 5. 4. 2019 Fall GWL P400 ESDeep Aquifer, 6. 5. 2019 SWI Pressure 180 Foot Aquifer, 7. 6. 2019 SWI Pressure 400 Foot Aquifer, 8. WRAG Item No. 2 Completed Board Order, 9. WRABOS March 10, 2020 MS PowerPoint

Presentation

Date	Ver.	Action By	Action	Result
3/10/2020	1	Board of Supervisors of the Monterey County Water Resources Agency	received	

Consider receiving 2019 Groundwater Level Contour and Historical Seawater Intrusion Maps. RECOMMENDATION:

It is recommended that the Monterey County Water Resources Agency Board of Supervisors:

Receive the 2019 Groundwater Level Contour and Historical Sea Water Intrusion Maps

#### SUMMARY/DISCUSSION:

#### August Trough Groundwater Level Survey

Each summer, Monterey County Water Resources Agency (MCWRA) staff conducts an intensive groundwater level survey of the northern Salinas Valley. Groundwater levels (GWLs) are sampled at approximately 160 wells from Chualar to the coast, to obtain a "snapshot" survey of conditions within and beyond the Seawater Intrusion Front. 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 groundwater level gradients sloping inland from the coast, driving seawater intrusion, which are most pronounced when pumping is at its seasonal peak.

# Fall Groundwater Level Survey

In the late fall, from mid-November to mid-December, the MCWRA samples GWLs in approximately 460 wells throughout the Salinas Valley. The timing of this survey allows us to capture conditions in the groundwater basin at a time when a relative lull in agricultural pumping causes groundwater level troughs to relax, prior to the influence of seasonal recharge in response to winter/spring precipitation. In this way, the annual Fall survey of groundwater levels is an assessment of the relative, year-to-year change in groundwater storage throughout the valley.

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### Historical Seawater Intrusion

Each summer, MCWRA staff samples approximately 120 agricultural, urban purveyor, and small diameter monitoring groundwater 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 MCWRA's network of small diameter monitoring wells is sampled once in September. Samples are analyzed by the County's Consolidated Chemistry Lab. The data are then processed and evaluated, and contours are developed. The new 2019 polygons are then added to the Historical Sea Water Intrusion maps.

#### OTHER AGENCY INVOLVEMENT:

Monterey County Water Resources Agency collects, processes and analyses groundwater level and quality data to develop these maps.

#### FINANCING:

There is no financial impact in receiving this report.

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#### ATTACHMENTS:

Attachment 1: August 2019 Groundwater Level Contour Map (Pressure 180-Foot and East Side Shallow Aquifers)

Attachment 2: August 2019 Groundwater Level Contour Map (Pressure 400-Foot and East Side Deep Aquifers)

Attachment 3: Fall 2019 Groundwater Level Contour Map (Pressure 180-Foot, East Side Shallow, Forebay and Upper Valley Aquifers)

Attachment 4: Fall 2019 Groundwater Level Contour Map (Pressure 400-Foot and East Side Deep Aquifers)

Attachment 5: 2019 Historical Seawater Intrusion Map of Pressure 180-Foot Aquifer Attachment 6: 2019 Historical Seawater Intrusion Map of Pressure 400-Foot Aquifer

#### Groundwater Contour Maps:

https://www.co.monterey.ca.us/government/government-links/water-resources-agency/documents/groundwater-elevation-contours#wra <a href="https://www.co.monterey.ca.us/government-links/water-resources-agency/documents/groundwater-elevation-contours">https://www.co.monterey.ca.us/government-links/water-resources-agency/documents/groundwater-elevation-contours>

## Historical Sea Water Intrusion Maps:

https://www.co.monterey.ca.us/government/government-links/water-resources-agency/programs/seawater-intrusion-monitoring#wra <a href="https://www.co.monterey.ca.us/government/government-links/water-resources-agency/programs/seawater-intrusion-monitoring">https://www.co.monterey.ca.us/government-links/water-resources-agency/programs/seawater-intrusion-monitoring</a>