

# Basin Technical Advisory Committee

Meeting No. 123

AGENDA

Bear Valley Mutual  
Water Company

City of Colton

East Valley Water District

City of Loma Linda

City of Redlands

City of Rialto

City of Riverside

San Bernardino County  
Flood Control District

San Bernardino Municipal  
Water Department

San Bernardino Valley  
Municipal Water District

San Bernardino Valley  
Water Conservation District

West Valley Water District

Western Municipal  
Water District

Yucaipa Valley Water District

## **REGULAR MEETING OF THE BASIN TECHNICAL ADVISORY COMMITTEE MONDAY, AUGUST 07, 2023 – 1:30 P.M.**

### **PUBLIC PARTICIPATION**

Public participation is welcome and encouraged. You may participate in the August 07, 2023, meeting of the Basin Technical Advisory Committee **online** and by **telephone** as follows:

**San Bernardino Valley Municipal Water District  
380 E. Vanderbilt Way San Bernardino, CA 92408  
In-Person: Board Room**

### **Teleconference Information**

**Dial-in Info: 877 853 5247 US Toll-free  
Meeting ID: 864 6271 4600**

**<https://sbvmwd.zoom.us/j/86462714600>**

**Passcode: 3802020**

If you are unable to participate online or by telephone, you may also submit your comments and questions in writing for the Committee's consideration by sending them to [comments@sbvmwd.com](mailto:comments@sbvmwd.com) with the subject line "Public Comment Item #" (insert the agenda item number relevant to your comment) or "Public Comment Non-Agenda Item". Submit your written comments by 6:00 p.m. on Sunday, August 06, 2023. All public comments will be provided to the Chairman and may be read into the record or compiled as part of the record.

380 East Vanderbilt Way  
San Bernardino, CA 92408  
909.387.9200 ph  
909.387.9247 fax  
www.sbvmwd.com

Tom Crowley, Chair

Vacant, Chair  
Project Implementation Group

Ryan Shaw, Chair  
Engineering Subcommittee

Janett Robledo, Chair  
Conservation Subcommittee

# Basin Technical Advisory Committee

Meeting No. 123

## AGENDA

**August 07, 2023, 1:30 p.m.**

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- 1) Call to Order/Pledge of Allegiance/Introductions
- 2) Public Comments
- 3) Approval of Minutes
  - a) April 6, 2023 Regular Meeting
  - b) June 14, 2023 Special Meeting
- 4) Presentations and Discussion Items
  - a) Newmark Groundwater Contamination Superfund Site Project Briefing - 15 mins (Miguel Guerrero)
  - b) Regional Water Resources Update - 10 mins. (Michael Plinski)
  - c) Update on Western-San Bernardino Watermaster Activities - 10 mins. (Mallory O'Connor and Adekunle Ojo)
  - d) Forecast Informed Reservoir Operations (FIRO) Study for Seven Oaks Dam - 10 mins. (Greg Woodside)
- 5) Quick Updates, Reminders, and Announcements
  - a) Basin Optimization (SBV/Western)
  - b) Salt and Nutrient Management Plan Project Update (SBV)
- 6) Other Business and Future Agenda Items
- 7) Adjourn - Next Regular Meeting: December 11 @ 1:30

Bear Valley Mutual  
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**MINUTES  
OF  
THE SPECIAL MEETING  
BASIN TECHNICAL ADVISORY COMMITTEE**

**MEETING NO. 121**

**April 3, 2023**

**Guests attended:**

George Hanson, Bear Valley Mutual Water Company

Brian Dickinson, City of Colton

Michael Moore, East Valley Water District

Rocky Welborn, East Valley Water District

Jeff Noelte, East Valley Water District

Cris Fealy, Fontana Water Company

John Harris, City of Redlands

Nicole Hemmans, City of Rialto

Toyasha Sebbag, City of Rialto

Farid Ishak Boushaki, City of Riverside Public Utilities

Betsy Miller, San Bernardino Valley Water Conservation District

Katelyn Scholte, San Bernardino Valley Water Conservation District

Robert Stewart, San Bernardino Valley Water Conservation District

John Longville, San Bernardino Valley Water Conservation District

Miguel Guerrero, San Bernardino Municipal Water Department

Steve Miller, San Bernardino Municipal Water Department

June Hayes, San Bernardino Valley Municipal Water District

T. Milford Harrison, San Bernardino Valley Municipal Water District

Gil Botello, San Bernardino Valley Municipal Water District

Heather Dyer, San Bernardino Valley Municipal Water District

Wen Huang, San Bernardino Valley Municipal Water District

Bob Tincher, San Bernardino Valley Municipal Water District

Cindy Saks, San Bernardino Valley Municipal Water District

Leo Ferrando, San Bernardino Valley Municipal Water District

Adekunle Ojo, San Bernardino Valley Municipal Water District

Jose Macedo, San Bernardino Valley Municipal Water District  
Shavonne Turner, San Bernardino Valley Municipal Water District  
Don Lee, Tetra Tech  
Linda Jadeski, West Valley Water District  
Joshua Aguilar, Western Municipal Water District  
Mallory Gandara, Western Municipal Water District  
Van Jew, West Valley Water District  
Joyce McIntire, Yucaipa Valley Water District  
Marty Zvirbulis, Yucaipa Valley Water District  
Jennifer Ares, Yucaipa Valley Water District

### **Agenda Item 1. Call to Order/Pledge of Allegiance/Introductions/ Public Comment**

The meeting of the Basin Technical Advisory Committee was called to order by Adekunle Ojo who chaired the meeting on behalf of Chair Tom Crowley, at 1:30 p.m. via Zoom and SBVMWD Board Room.

### **Agenda Item 2. Public Comment.**

### **Agenda Item 3. Approval of Minutes.**

#### **A. Approval of the Minutes of the January 30, 2023, meeting.**

*The summary notes were accepted with no comments.*

### **Agenda Item 4. Discussion Items and Presentations**

#### **A. Summary Findings of the 2022 Change in Storage Report**

Adekunle Ojo of San Bernardino Valley Municipal Water District commenced his update by highlighting the findings of the 2022 Change in Storage report showing a moderate decline or stable storage conditions in all groundwater basins within the service area. The basins are 83% full on average and even though there is a slight decline in the basins for 2022, it is expected due to low local rainfall and 5% State Water Project allocation.

#### **B. Senate Bill 366: The California Water for All Initiative**

Heather Dyer, CEO/GM of San Bernardino Valley Municipal Water District referred to Senate Bill 366 stating this legislation came about from the Solve the Water Crisis Coalition efforts. The Coalition is comprised of about 35 general managers from all over the State, Northern California, Southern California, coastal, and Inland – all working on the common goal of securing a reliable water supply for all Californians. This legislation is not meant to support any given project; the purpose is to set

Statewide water supply goals and targets in law that we all need to be working towards similar to what has been on greenhouse reduction and other climate change measures. This Act is sponsored by Senator Caballero and the California Municipal Utilities Association and is intended to create a long-term strategy that is bigger than any Administration in order to have a reliable and resilient water supply system.

## **Agenda Item 5. Updates**

### **A. San Bernardino Basin Optimization**

Adekunle Ojo briefed the BTAC the first phase of this project will include facilitated workshops, listening sessions, shared understanding, and collaborative problem-solving outcomes, success metrics and goal setting on how this basin will be optimized. He added there will be a kickoff meeting for the San Bernardino Basin Optimization.

### **B. Water Conservation District Recharge Operations**

Betsy Miller, GM of **San Bernardino Valley Water Conservation District** highlighted we have had an excellent water year so far. Ms. Miller provided an update on the recharge that the Water Conservation District oversees. Ms. Miller mentioned the Santa Ana River recharge facilities have seen a higher-than-average flow releases from Seven Oaks Dam starting in January 11 to February 15 and they picked up again in March to present. The releases have been between 100-350 cfs and so far; the Conservation District have been able to recharge 23,000 AF this water year. Ms. Miller added they have a Plunge Creek project that restores naturally and cheaply restores habitat for San Bernardino kangaroo rat and will also slow the water down and allowing for a significant additional recharge. Ms. Miller added Mill Creek has had four major storms and the flow on the creek has been greater than 75 cfs, approximately 3,099 AF recharge. She also mentioned that imported water recharge for the Groundwater Council is at 750 AF.

### **C. Enhanced Recharge Stormwater Capture Project**

Leo Ferrando of San Bernardino Valley Municipal Water District provided an update on the Enhanced Recharge Phase i-B Project. Mr. Ferrando stated the Board awarded the construction contract to Bogh Engineering at its March 7<sup>th</sup> Board meeting. The project is set to take place approximately 30 months for construction but could possibly be completed in two years.

### **D. Regional Recycled Water System Construction**

Leo Ferrando provided an update on the Regional Recycled Water System Construction stating East Valley Water District is managing the construction of the first phase of the regional recycled water pipeline, which is about 50% completed. The pipeline from the Sterling Natural Resources Center is a critical part of a regional recycled water system that included a series of basins as well as the pipeline and those basins that we refer to as the Weaver Basins have been substantially completed. The remaining work is still ongoing on includes the control systems and electricals, but the earthwork is complete.

### **E. Subcommittees/Other**

None.

**Agenda Item 6. Other Business**

None.

**Agenda Item 7. Adjourn - Next Meeting: August 7 at 1:30 p.m.**

There being no further business, chair Adekunle Ojo adjourned the meeting at 2:30 p.m.

<p><b>APPROVAL CERTIFICATION</b> I hereby certify to approval of the foregoing Minutes of the Groundwater Council.</p> <p><b>Secretary</b> Date _____</p>
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Respectfully submitted,

Anel Perez  
Administrative Specialist

**MINUTES  
OF  
THE SPECIAL MEETING  
BASIN TECHNICAL ADVISORY COMMITTEE**

**MEETING NO. 122**

**June 14, 2023**

**Guests attended:**

Sam Fuller, Bear Valley Mutual Water Company

Bassam Alzammar, City of Colton

Michael Moore, East Valley Water District

Shane Sibbett, Elsinore Valley Municipal Water District

Josh Swift, Fontana Union Water Company

John Harris, City of Redlands

Richard Corneille, San Bernardino Valley Water Conservation District

June Hayes, San Bernardino Valley Municipal Water District

Gil Botello, San Bernardino Valley Municipal Water District

Cindy Saks, San Bernardino Valley Municipal Water District

Melissa Zoba, San Bernardino Valley Municipal Water District

Shavonne Turner, San Bernardino Valley Municipal Water District

Warren Huang, San Bernardino Municipal Water Department

Francisco Lopez, San Bernardino Municipal Water Department

Greg Woodside, San Bernardino Municipal Water Department

Marty Zvirbulis, San Gabriel Valley Water Company

Don Lee, Tetra Tech

Joshua Aguilar, Western Municipal Water District

Mallory Gandara, Western Municipal Water District

Allison Edmisten, Yucaipa Valley Water District

Mike Kostelecky, Yucaipa Valley Water District

Matt Porras, Yucaipa Valley Water District

Joe Zoba, Yucaipa Valley Water District

Jennifer Ares, Yucaipa Valley Water District

## **Agenda Item 1. Call to Order/Pledge of Allegiance/Introductions**

The meeting of the Basin Technical Advisory Committee was called to order by chair Thomas Crowley, at 9:00 a.m. via Zoom and SBVMWD Board Room.

## **Agenda Item 2. Public Comment.**

## **Agenda Item 3. Discussion of Potential Surplus of State Water Project (SWP) Water in 2023**

Wen Huang of San Bernardino Valley Municipal Water District commenced his update on the potential surplus of State Water Project (SWP) water in 2023. Mr. Huang stated there is a 100% State Water Project Table A allocation and above average precipitation in Santa Ana Watershed. He explained that recharge facilities are operating at maximum capacity and Santa Ana River water is being released from Seven Oaks Dam at a rate exceeding groundwater capture and recharge capacity. Mr. Huang added the Santa Ana River spreading grounds are not available for recharge of SWP water for the last several months due to abundant local water and preparation for the construction of the Enhanced Recharge Phase 1B Project.

Mr. Huang provided a summary of the estimated SWP supplies and demands for 2023. The estimated 2023 SWP supply was 116,503 AF, after accounting for a proposed additional 5,000 AF of Article 21 water. The estimated deliveries were 96,000 AF. After accounting for carryover to 2024 and Kern-Delta Water Bank storage, there was a potential for 5,503 AF of surplus SWP water.

Greg Woodside of San Bernardino Valley Municipal District provided an update on the Santa Ana River Conservation and Conjunctive Use Program (SARCCUP). He commenced by stating the Program is partially funded by the state through Proposition 84 and includes a regional water bank, habitat improvements, and water conservation funding. He mentioned that if the District declared a surplus of SWP water, Pass Agency would have the first right to surplus water. If there was surplus water remaining, the District would make the surplus SWP water available to the Metropolitan Water District of Southern California (MWDSC) in accordance with the District's agreement with MWDSC. If MWDSC purchased the surplus water from the District, at least 50% would go to SARCCUP Water Bank partners which are Western MWD, Eastern MWD, and OCWD through MWDOC. MWDSC would pay \$125/AF plus energy cost to SBVMWD per the District's agreement with MWDSC.

Mr. Huang addressed questions from the BTAC on the breakdown of the 2023 supplies, deliveries, and carryover/surplus. Mr. Huang recommended the BTAC consider the information on available 2023 SWP supplies and estimated demands and provide the BTAC's recommendation regarding a potential declaration of surplus SWP supplies by the District's Board of Directors.

Discussion ensued, including discussion regarding the perception of declaring a surplus given the recent dry years and whether some retail water agencies could take additional water so there would be no surplus SWP water. Discussion also ensued regarding the



District developing a 3-year plan for use of SWP supplies. Additionally, Joe Zoba of Yucaipa Valley Water District expressed YVWD's interest in purchasing additional 5,000 AF of SWP for recharge in the Wilson and Oak Glen Basins.

A motion was moved by Michael Moore of EVWD that the BTAC does not recommend a surplus of SWP water for 2023 and the BTAC requested SBVMWD coordinate a meeting with all retail agencies soon to discuss maximizing uses of SWP supplies in the region. John Harris seconded the motion. This motion was approved unanimously.

**Agenda Item 4. Other Business**

None

**Agenda Item 5. Adjourn - Next Meeting: August 7 at 1:30 p.m.**

There being no further business, chair Thomas Crowley, adjourned the meeting at 10:06 a.m.

<p><b>APPROVAL CERTIFICATION</b> I hereby certify to approval of the foregoing Minutes of the Groundwater Council.</p> <p>Secretary _____ Date _____</p>
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Respectfully submitted,

Anel Perez  
Administrative Specialist



## Newmark Groundwater Contamination Superfund Site

## Project Briefing





# Briefing Topics

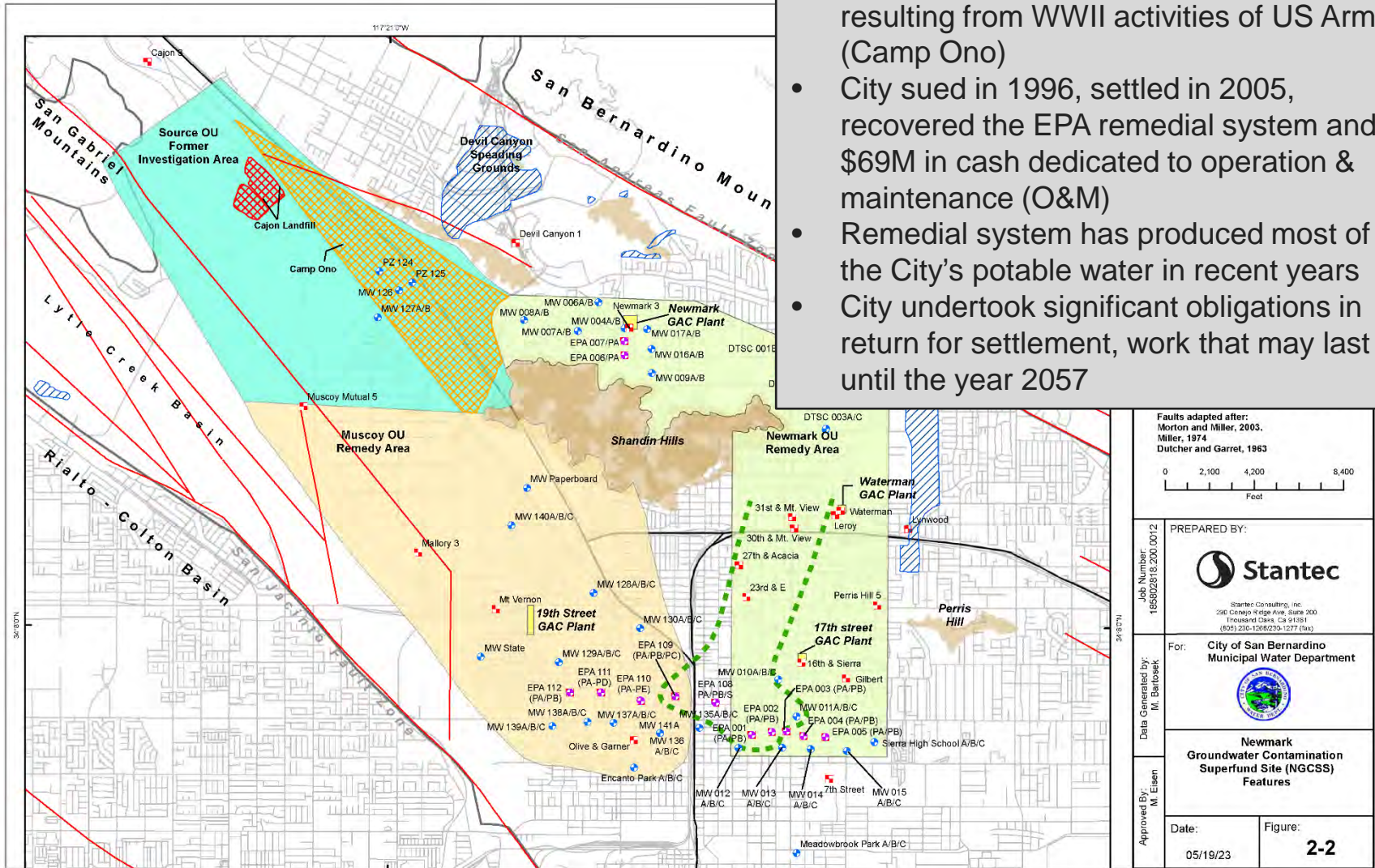
1. Background
2. Remedy Status
3. Proposed Water Supply Permit Amendments
4. EPA Source OU Actions





# Newmark Groundwater Contamination Superfund Site (NGCSS) Background

- PCE, TCE groundwater contamination resulting from WWII activities of US Army (Camp Ono)
- City sued in 1996, settled in 2005, recovered the EPA remedial system and \$69M in cash dedicated to operation & maintenance (O&M)
- Remedial system has produced most of the City's potable water in recent years
- City undertook significant obligations in return for settlement, work that may last until the year 2057



Faults adapted after:  
Morton and Miller, 2003.  
Miller, 1974  
Dutcher and Garret, 1963

PREPARED BY:  
 **Stantec**  
Stantec Consulting, Inc.  
296 Corning Plaza Ave., Suite 200  
Thousand Oaks, CA 91320  
(805) 236-1262/236-1277 (fax)

FOR: **City of San Bernardino  
Municipal Water Department**

**Newmark  
Groundwater Contamination  
Superfund Site (NGCSS)  
Features**

Approved By: M. Eisen  
Date: 05/19/23  
Figure: **2-2**



# Newmark Groundwater Contamination Superfund Site (NGCSS) Remedial Action Status

NGCSS  
Project Briefing

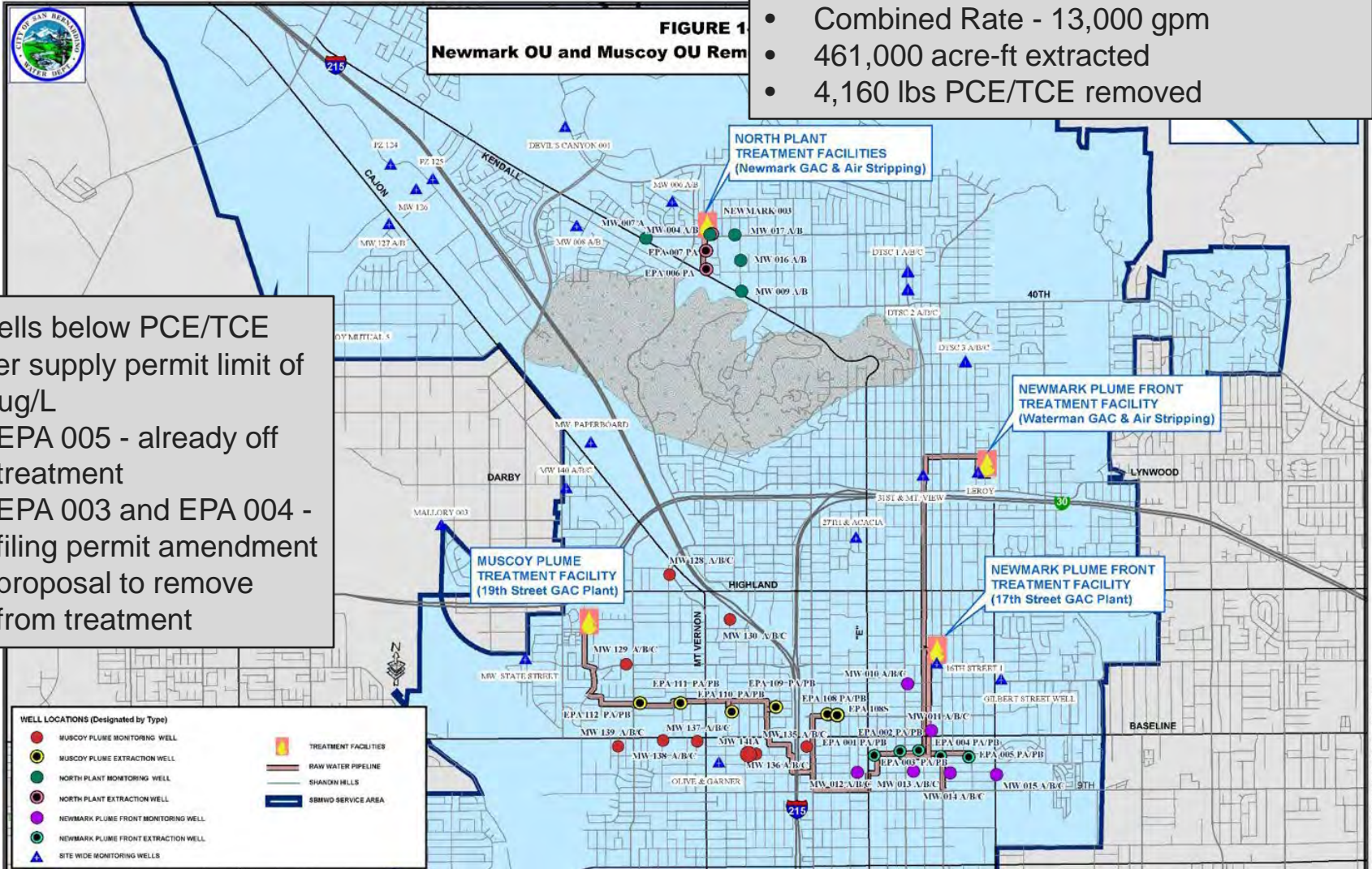
**Newmark and Muscoy OU Remedial Action**

- 14 Extraction Wells
- Combined Rate - 13,000 gpm
- 461,000 acre-ft extracted
- 4,160 lbs PCE/TCE removed

**FIGURE 1**  
**Newmark OU and Muscoy OU Rem**

3 wells below PCE/TCE water supply permit limit of 0.5 ug/L

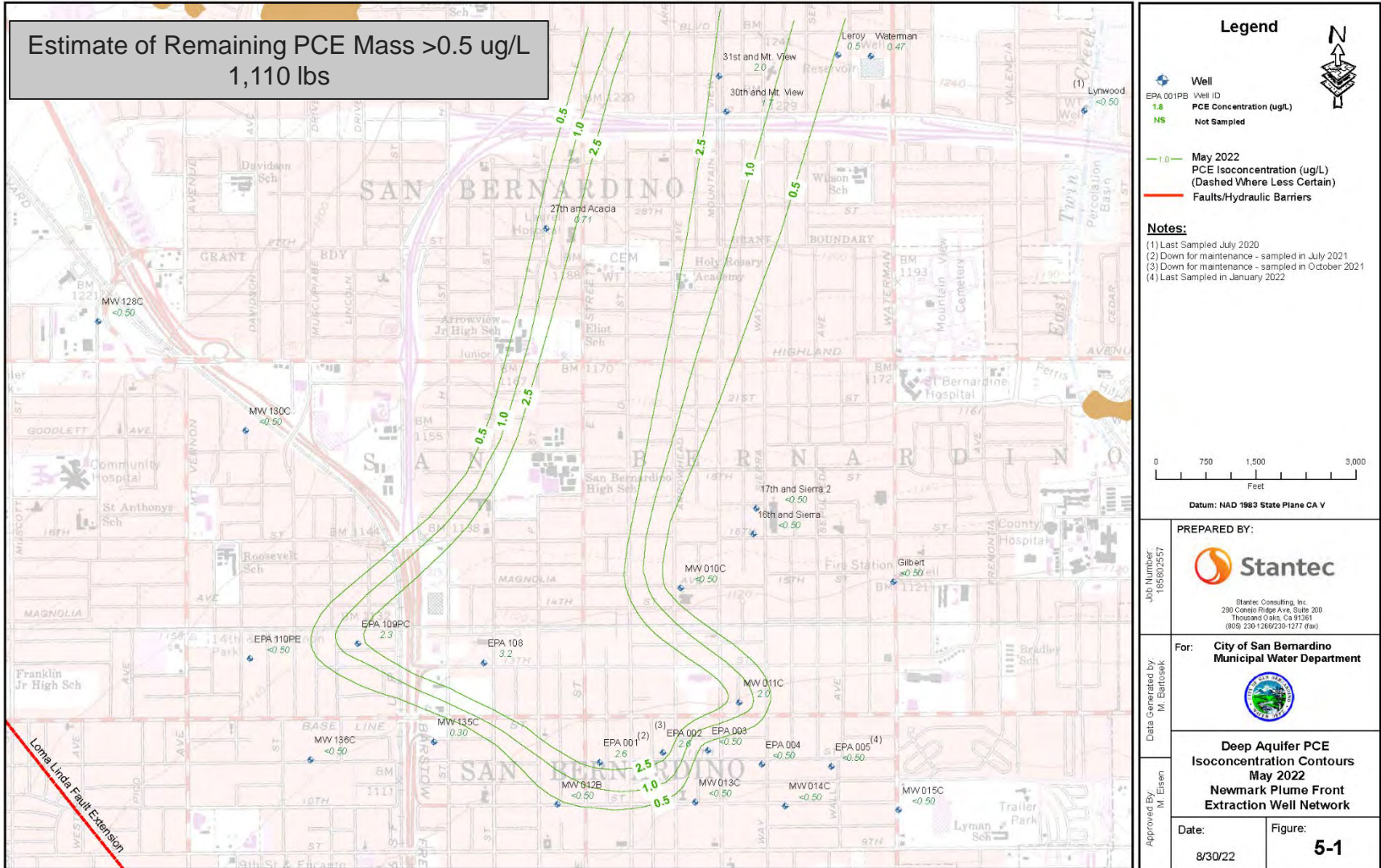
- EPA 005 - already off treatment
- EPA 003 and EPA 004 - filing permit amendment proposal to remove from treatment



WELL LOCATIONS (Designated by Type)	
	MUSCOY PLUME MONITORING WELL
	MUSCOY PLUME EXTRACTION WELL
	NORTH PLANT MONITORING WELL
	NORTH PLANT EXTRACTION WELL
	NEWMARK PLUME FRONT MONITORING WELL
	NEWMARK PLUME FRONT EXTRACTION WELL
	SITE WIDE MONITORING WELLS
	TREATMENT FACILITIES
	RAW WATER PIPELINE
	SHANDIN HILLS
	SBWD SERVICE AREA

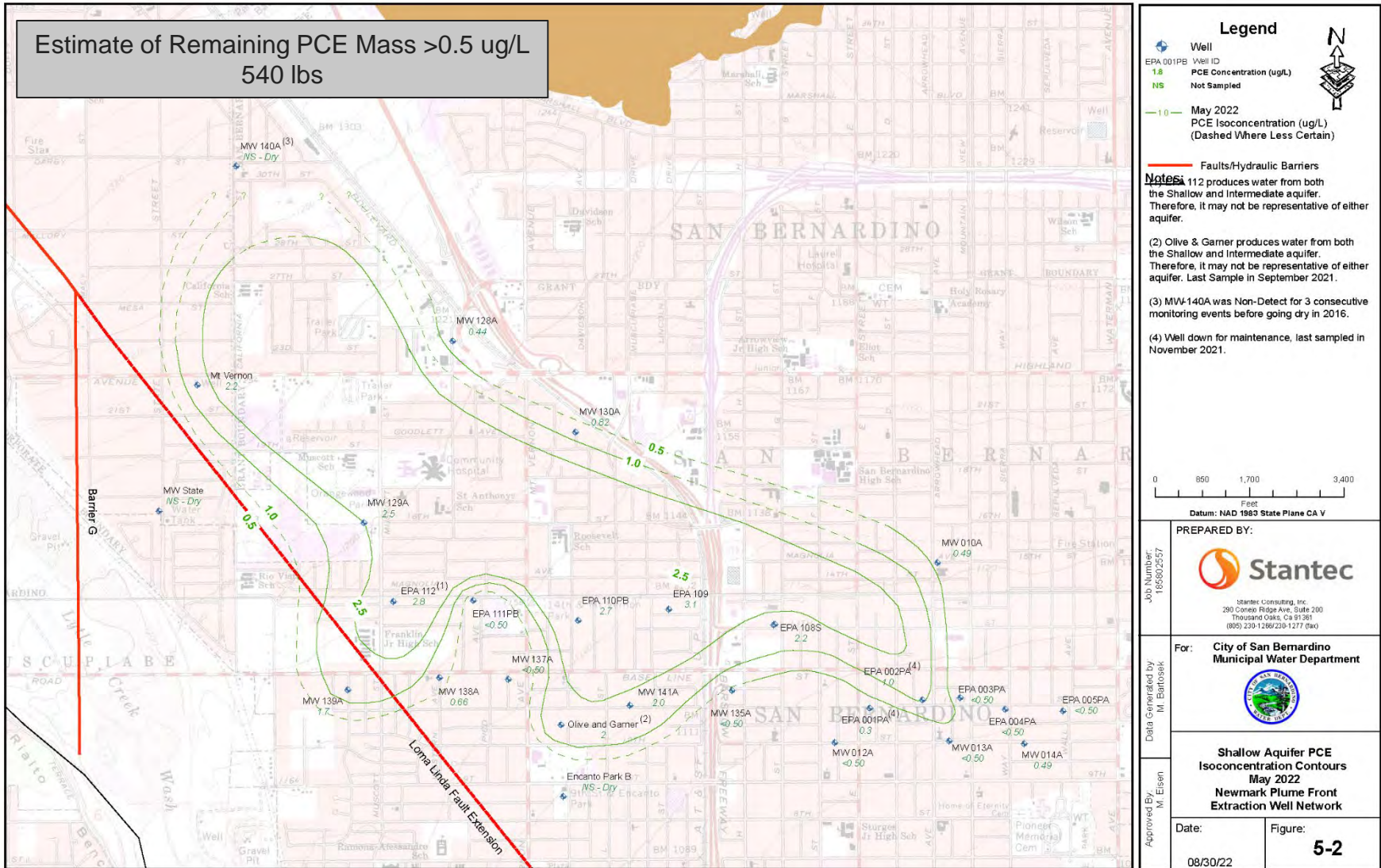


# Newmark OU Deep Aquifer Plume – May 2022



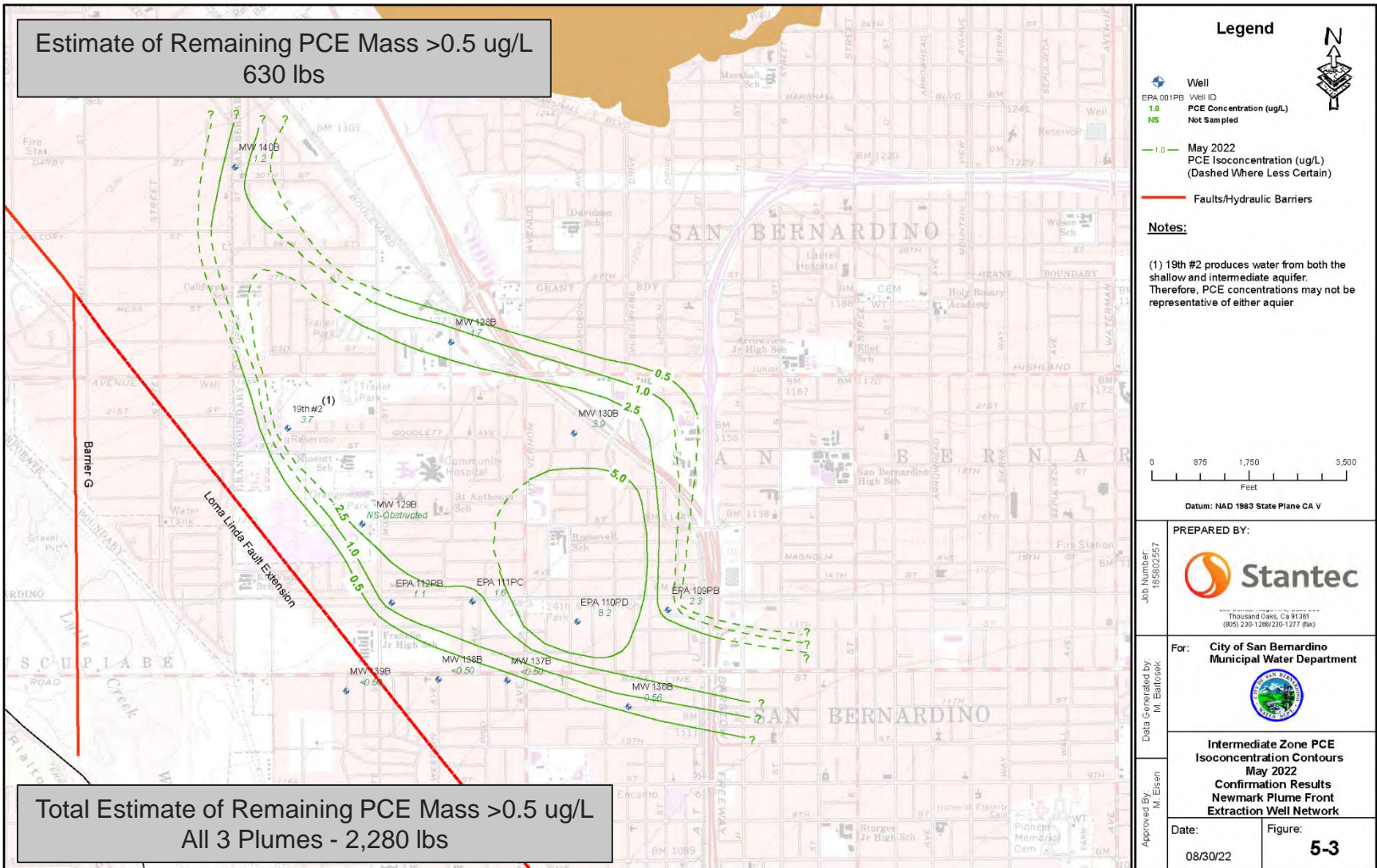


# Muscoy OU Shallow Aquifer Plume – May 2022





# Muscoy OU Intermediate Zone Plume – May 2022





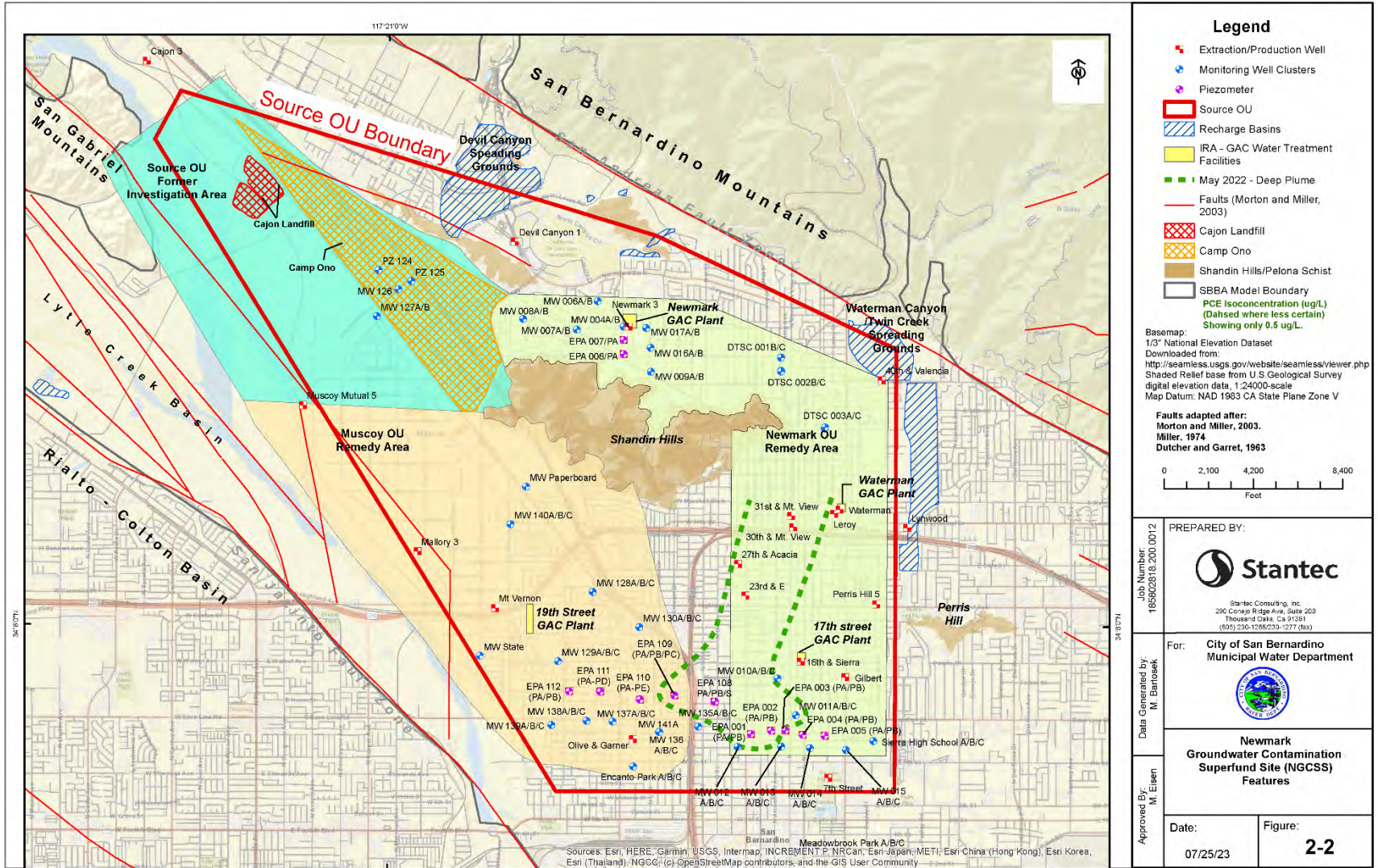
# Proposed Water Supply Permit Amendments

1. Remove EPA 003 and EPA 004 from GAC treatment
  - ✓ Temporary blending of EPA 003/EPA 004 extracted water for provisional period
2. Transfer water extracted from EPA 002 to 19<sup>th</sup> Street North GAC Treatment Plant
3. Curtail Waterman GAC Treatment Plant Operations
  - ✓ Potentially use to treat water extracted from 30<sup>th</sup>/31<sup>st</sup> and Mt. View, Leroy and Waterman and shutdown air stripping towers
4. Modify EPA 005 perchlorate blend plan
  - ✓ Suspend plan while perchlorate concentrations are below 80% of the MCL
  - ✓ Limit blending wells to EPA 003 and/or EPA 004 if 80% MCL is exceeded (current blend plan requires EPA 002, EPA 003 and EPA 004 combined to be the blending source for EPA 005 to operate)
5. Corresponding changes to EPA 003, EPA 004 and EPA 005 conveyance piping
6. Remove Extremely Impaired Source (EIS) Designation from EPA 003, EPA 004 and EPA 005

# Permit Amendment Proposal Status

- Draft technical memorandum (TM) submitted to EPA/DTSC for review/concurrence
- Will be submitted to SWRCB DDW after addressing EPA/DTSC comments
- EPA has requested SBMWD to setup a joint meeting with DDW once the TM is submitted
- EPA's goal appears to be to further previous discussion of removing the extremely impaired source designation from all extraction wells.

# EPA Source OU Proposed Plan and ROD



<p><b>Legend</b></p> <ul style="list-style-type: none"> <li><span style="color: red;">■</span> Extraction/Production Well</li> <li><span style="color: blue;">●</span> Monitoring Well Clusters</li> <li><span style="color: purple;">●</span> Piezometer</li> <li><span style="border: 2px solid red; display: inline-block; width: 15px; height: 10px;"></span> Source OU</li> <li><span style="background: repeating-linear-gradient(45deg, transparent, transparent 2px, blue 2px, blue 4px); border: 1px solid blue; display: inline-block; width: 15px; height: 10px;"></span> Recharge Basins</li> <li><span style="background-color: yellow; border: 1px solid yellow; display: inline-block; width: 15px; height: 10px;"></span> IRA - GAC Water Treatment Facilities</li> <li><span style="border-bottom: 2px dashed green; width: 15px; display: inline-block;"></span> May 2022 - Deep Plume</li> <li><span style="color: red;">—</span> Faults (Morton and Miller, 2003)</li> <li><span style="background: repeating-linear-gradient(-45deg, transparent, transparent 2px, red 2px, red 4px); border: 1px solid red; display: inline-block; width: 15px; height: 10px;"></span> Cajon Landfill</li> <li><span style="background: repeating-linear-gradient(45deg, transparent, transparent 2px, orange 2px, orange 4px); border: 1px solid orange; display: inline-block; width: 15px; height: 10px;"></span> Camp Ono</li> <li><span style="background-color: #d2b48c; border: 1px solid #d2b48c; display: inline-block; width: 15px; height: 10px;"></span> Shandin Hills/Pelona Schist</li> <li><span style="border: 1px solid black; display: inline-block; width: 15px; height: 10px;"></span> SBBA Model Boundary</li> <li><span style="color: blue;">—</span> PCE Isoconcentration (ug/L) (Dashed where less certain) Showing only 0.5 ug/L.</li> </ul> <p>Basemap: 1:3 National Elevation Dataset Downloaded from: <a href="http://seamless.usgs.gov/website/seamless/viewer.php">http://seamless.usgs.gov/website/seamless/viewer.php</a> Shaded Relief base from U.S. Geological Survey digital elevation data, 1:24000-scale Map Datum: NAD 1983 CA State Plane Zone V</p> <p>Faults adapted after: Morton and Miller, 2003. Miller, 1974 Dutcher and Garret, 1963</p> <p>0 2,100 4,200 8,400 Feet</p>	
<p>Uch Number: 185602818.000.0012</p>	<p>PREPARED BY:</p> <p> <b>Stantec</b></p> <p><small>Stantec Consulting, Inc. 230 George Ridge Ave., Suite 200 Thousand Oaks, CA 91381 (805) 230-1286/(230-1277) (fax)</small></p>
<p>Data Generated by: M. Darabsek</p>	<p>For: <b>City of San Bernardino Municipal Water Department</b></p> <p></p>
<p>Approved By: M. Eileen</p>	<p><b>Newmark Groundwater Contamination Superfund Site (NGCSS) Features</b></p>
<p>Date: 07/25/23</p>	<p>Figure: <b>2-2</b></p>

# EPA Source OU Proposed Plan and ROD

EPA is preparing to open the public comment period for their Source OU remedial action as detailed in a proposed plan fact sheet and supporting RI/FFS documents

- Release of Proposed Plan – August 10, 2023
- Public Meeting – August 24, 2023
- Public Comment Period – August 10 through September 9

Their recommended remedial action to address PCE/TCE within the Northwest Source OU Area is monitored natural attenuation (MNA). Given the limited amount of PCE remaining in the Northwest Area and that a significant portion of remaining mass is apparently trapped in bedrock, SBMWD concurs with this approach

## Item 4c

SUMMARY OF COMPLIANCE WITH FOUR  
PRINCIPAL PROVISIONS OF THE JUDGMENT**COMPLIANCE IN THE SAN BERNARDINO BASIN AREA**

- PLAINTIFF EXTRactions ARE LESS THAN THE MAXIMUM ALLOWABLE EXTRactions

During the five-year period 2018 through 2022 extractions by Plaintiffs did not exceed the five-year maximum allowable. (See page 2c of 2 of Table Nos. 10 through 13) Also, in calendar year 2022 extractions by each Plaintiff did not exceed the annual maximum allowable, which is 1.3 times the 2022 Adjusted Right. (See page 1c of 2 of Table Nos. 10 through 13)

- SAN BERNARDINO VALLEY IS NOT REQUIRED TO PROVIDE REPLENISHMENT

For the period 1971 through 2022, San Bernardino Valley credits exceed obligation by 532,152 AF. (See Table No. 17)

**COMPLIANCE IN THE COLTON AND RIVERSIDE BASIN AREAS**

- WESTERN IS NOT REQUIRED TO PROVIDE REPLENISHMENT

For the period 1971 through 2022, Western credits exceed obligations by 587,080 AF. (See Table No. 16)

- SAN BERNARDINO VALLEY MAY BE REQUIRED TO PROVIDE REPLENISHMENT FOR MAINTAINING GROUNDWATER LEVEL

The average lowest water level in the three key wells for Calendar Year 2022 is 8.61 feet lower than the required minimum average level of 822.04 feet. Pursuant to Judgment Paragraph VIII (d) and subject to the alternative remedy provided for in Paragraph VIII (e) and the conditions cited in Paragraph XI (d) and XV (e), San Bernardino Valley may be required to provide replenishment.