ASR-4 ASR-3 Paralta ASR-2 MW-1AD ASR-1 DIW-3 MW-2AD • 0 **Ord Grove #2** DIW-1 DIW-2 DIW-4 Seaside Muni #4 1,000 2,000 Feet

Location of Injection and Extraction Wells

PWM Wells

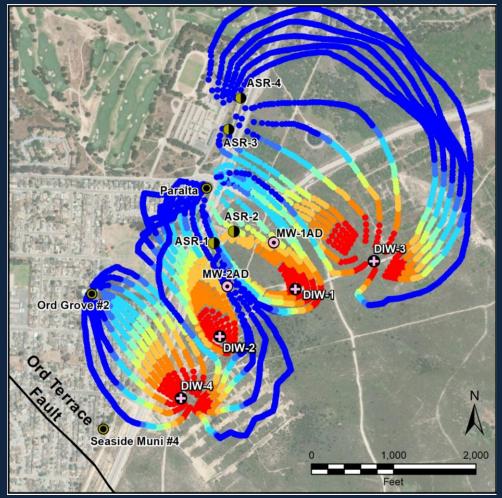
- Deep Injection Well
- Monitoring Well

Other Wells

- Production Well
- ASR Well

Near Term Reoperation of ASR-1

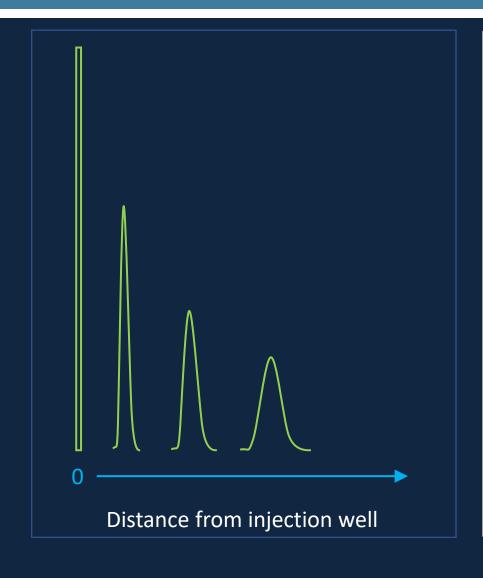
- Evaluate travel times to ASR-1 when it resumes extracting
- Conservatively assume increased dispersion over longer travel distance $(t_{10}/t_{peak} = 0.80)$

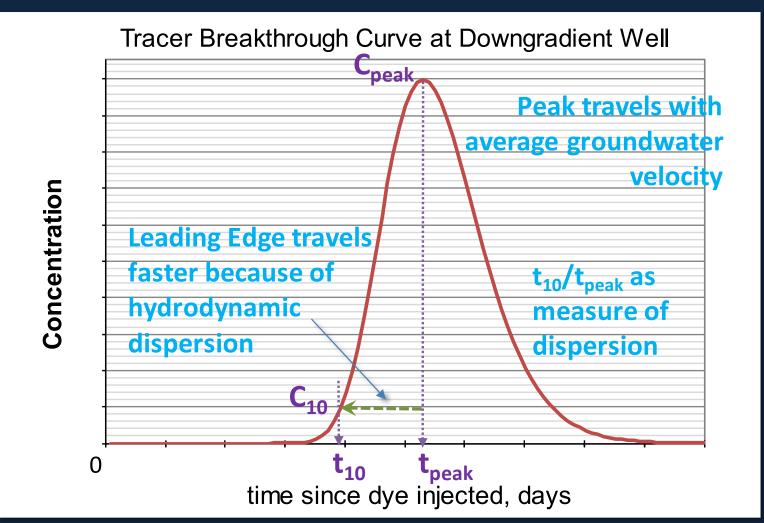


Objectives of Extrinsic Tracer Test

- Measure dye concentrations arrival at downgradient wells
- Accurate travel times of peak (t_{peak}) and 10% of peak (t₁₀)
- Re-calibrate model to arrival of dye tracer at monitoring wells
- Simulate extraction at ASR-1 and determine injection at DIW-1 and DIW-2 that achieves minimum required 2-month t₁₀
- Receive full 1.0 log virus removal credit per month of t₁₀ travel

Tracer Break-Through Curve



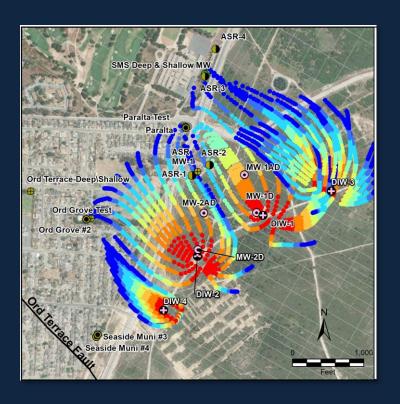


Operational Steps to use ASR-1 for WY 2022

- PWM system will be operated in close coordination with CalAm to ensure 2-month underground retention time
- The four DIW wells can be flexibly operated to ensure ASR-1 travel time is met without stopping injection
- ASR-1 can be operated with no restrictions if DIW-1 and DIW-2 have been injecting at reduced rates for the prior 2 months
- CalAm and M1W work closely to coordinate ASR-1 scheduling

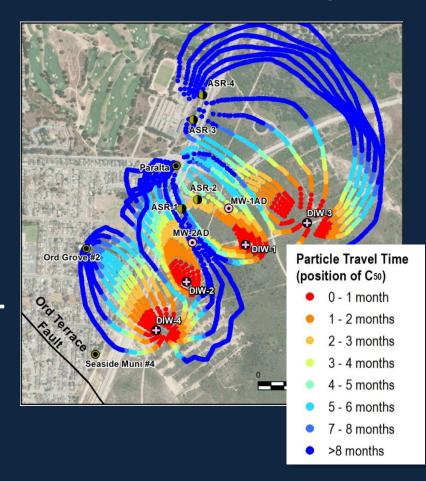
Example Injection Redistribution Scenario

ASR-1 Not Extracting



- DIW rates redistributed at least 2 months prior
 - DIW-1: > to ≤ 560 GPM
 - DIW-2: > to ≤ 430 GPM
 - DIW-3: **↗** to 1350 GPM
 - DIW-4: 7 to 400 GPM
- t₁₀ ≥ 2 months during ASR-1 extraction period

ASR-1 Extracting



Conclusions

- Added tracer study confirms results of intrinsic tracer study
- Travel time to ASR-1 depends on combination of injection rates at DIW-1 and DIW-2 and the extraction rate at ASR-1
- Pumping at other wells has smaller influence on ASR-1 travel time
- t₁₀ to ASR-1 will always meet or exceed 2 months as long as injection at DIW-1 and DIW-2 is reduced by necessary amounts for two months prior to ASR-1 operation

EXHIBIT 5-A

Phase 1 Schedule

| Event | Date |
|--|--------------------------------|
| Intervenor Testimony | March 11, 2022 |
| California American Water Supplemental Testimony on water supply and demand estimates for its Monterey Peninsula customers to support the Amended and Restated Water Purchase Agreement. | March 11, 2022 |
| California American Water Rebuttal Testimony . | April 1, 2022 |
| Intervenor Testimony on California American Water's Supplemental Testimony on water supply and demand estimates for its Monterey Peninsula customers to support the Amended and Restated Water Purchase Agreement. | April 1, 2022 |
| California American Water Rebuttal Testimony as to Supplemental Testimony on water supply and demand estimates for its Monterey Peninsula customers to support the Amended and Restated Water Purchase Agreement | April 8, 2022 |
| Meet and Confer (Rule 13.9) | April 11, 2022 |
| Joint Case Management Statement (Rule 13.8) | April 14, 2022 |
| Evidentiary Hearing (as needed) | May 3-4 and 6, 2022 |
| Opening Briefs w/hearings Opening Briefs w/o hearings | May 30, 2022 April 29, 2022 |
| Reply Briefs w/hearings Reply Briefs w/o hearings | June 20, 2022 May 20, 2022 |

Proposed Decision on Amended and Restated Water Purchase Agreement within 90 days of Reply Briefs



AUSTEN RD



Compliance with the CDO and Seaside Basin Adjudication: As shown below, existing water supplies available beginning next year are as follows:

| Water Supply Available | AFA |
|--|-------|
| Carmel River Supply | 3,376 |
| Seaside Basin Supply | 1,474 |
| Pure Water Monterey Supply | 3,500 |
| Total "Firm" Supply | 8,350 |
| 5-Year Average Customer Demand | 9,725 |
| Additional Supplies Needed to Lift CDO | 1,375 |

Lifting the CDO:

| Test 1 - Water for the River | AFA |
|--|-------|
| 5-Year Average of Pumping from the Carmel River: | 6,023 |
| Legal Right to Pump from the Carmel River: | 3,376 |
| Replacement Supply Needed: | 2,747 |

| Test 2 - Water for Customer Demand | AFA |
|---|-------|
| Carmel River Supply | 3,376 |
| Seaside Basin Supply | 1,474 |
| Pure Water Monterey Supply | 3,500 |
| Total "Firm" Supply | 8,350 |
| 5-Year Average Customer Demand | 9,725 |
| Additional Supplies Needed to Lift CDO | 1,375 |

| Additional Long-Term Supplies | AFA |
|---|--------------|
| ASR | 1,300 |
| Sand City Desal | 200 |
| Pure Water Monterey Expansion | 2,250 |
| Table 13 Water Rights | 100 |
| Desired In-Lieu Seaside Basin Recharge | |
| | <u>(700)</u> |
| Additional Supplies Available to Lift CDO | 3,150 |