

June 2026 Portfolio Groundwater Modeling



SVBGSA Advisory Committee

June 18, 2026

Portfolios (named just by key project)

Last Meeting



- Portfolio 1 – BGRP Injection Only
- Portfolio 2 – NSIP
- Portfolio 3a – Small BGRP

New Portfolios



- Portfolio 3b – Small BGRP + C&E Injection
- Portfolio 4 – Low-Cost Projects

Three Portfolios

Portfolio 1 (previously modeled)	Portfolio 3B	Portfolio 4
Avoid GWL and SWI Undesirable Results	Avoid GWL and SWI Undesirable Results with Smaller BGRP	Small Capital Cost Projects
Medium BGRP with injection only	Small BGRP with partial direct delivery to Salinas and partial injection	
C&E recharge basins in the Eastside with 100 cfs diversion	C&E recharge basins in the Eastside with 100 cfs diversion	C&E recharge basins in the Eastside with 50 cfs diversion
10% agricultural demand management	10% agricultural demand management	20% agricultural demand management
CSIP optimization	CSIP optimization	CSIP optimization
	C&E injection in the 400-Foot Aquifer with 50 cfs diversion	C&E injection in the 400-Foot Aquifer with 50 cfs diversion

All portfolios will include:

- Deep Aquifers demand management
- Corral de Tierra demand management

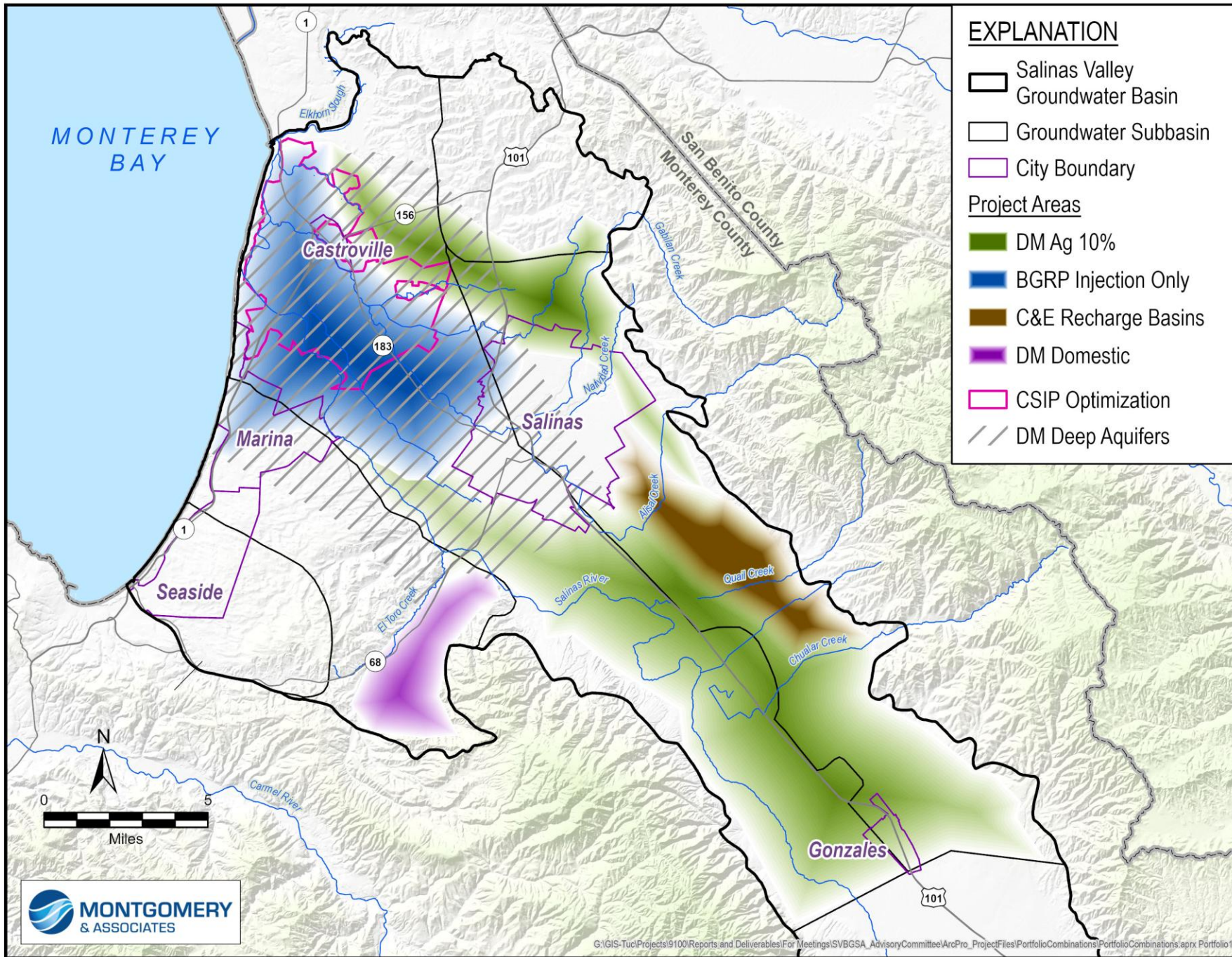
Portfolio 1

Medium BGRP Injection Only

C&E 100 CFS Recharge Basins

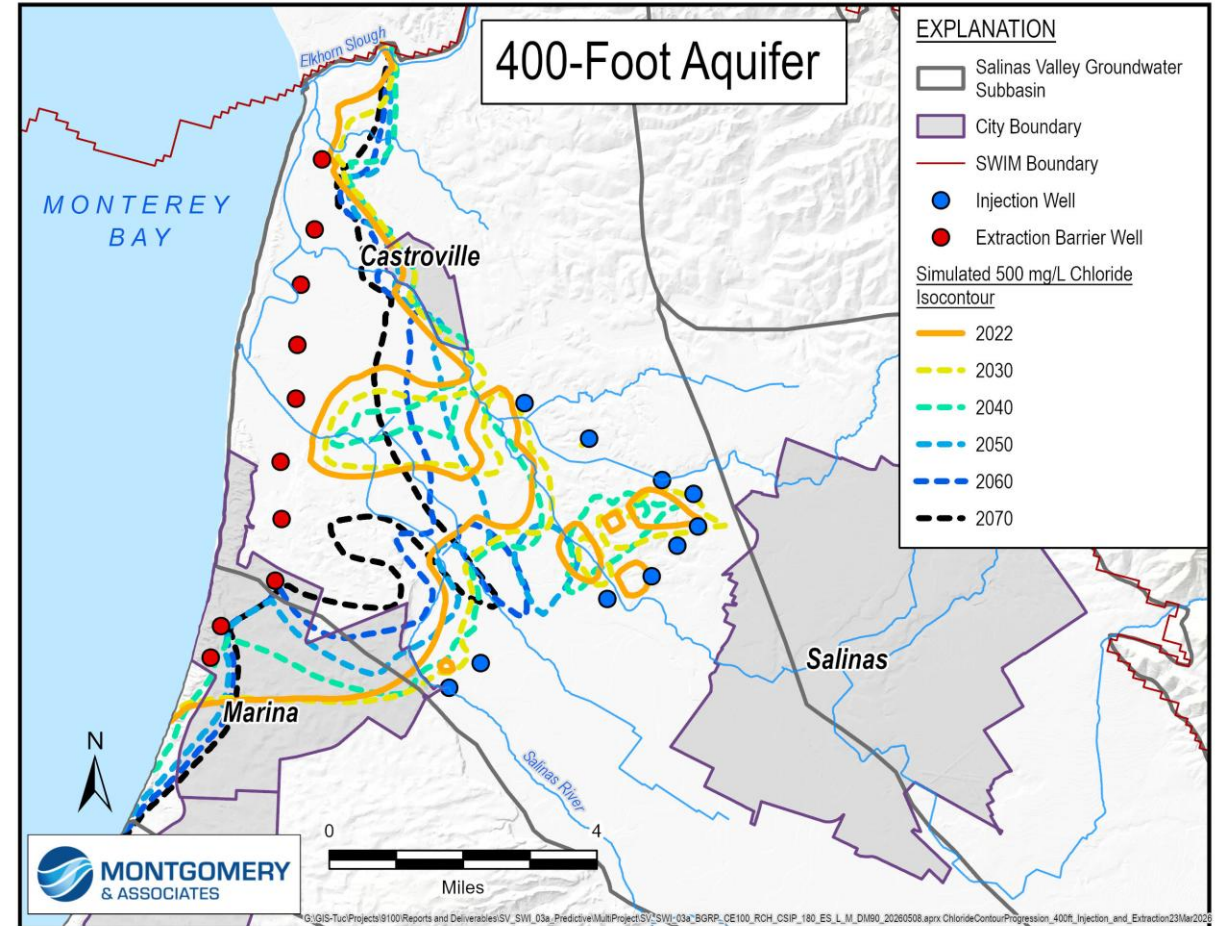
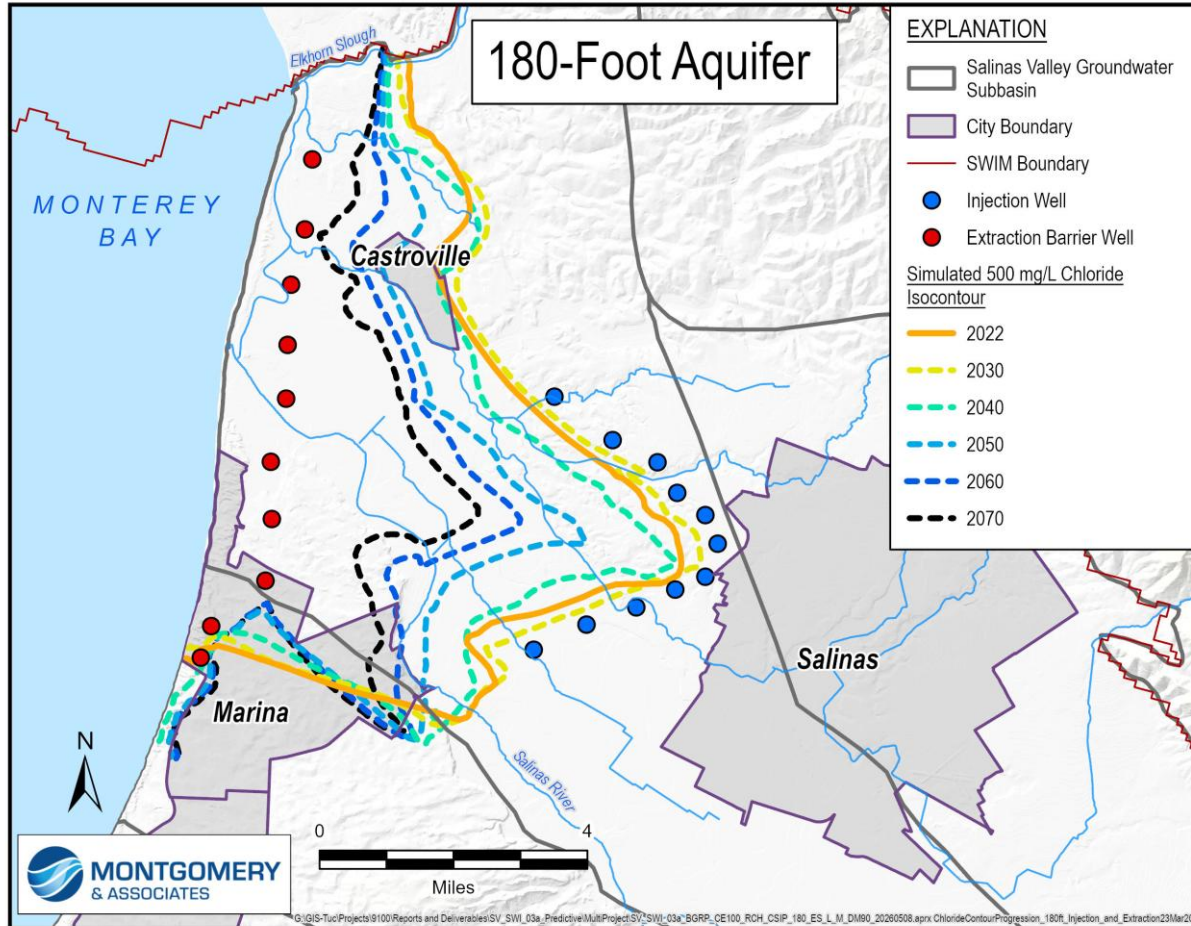
CSIP Optimization

10% Ag Demand Management (North Valley)

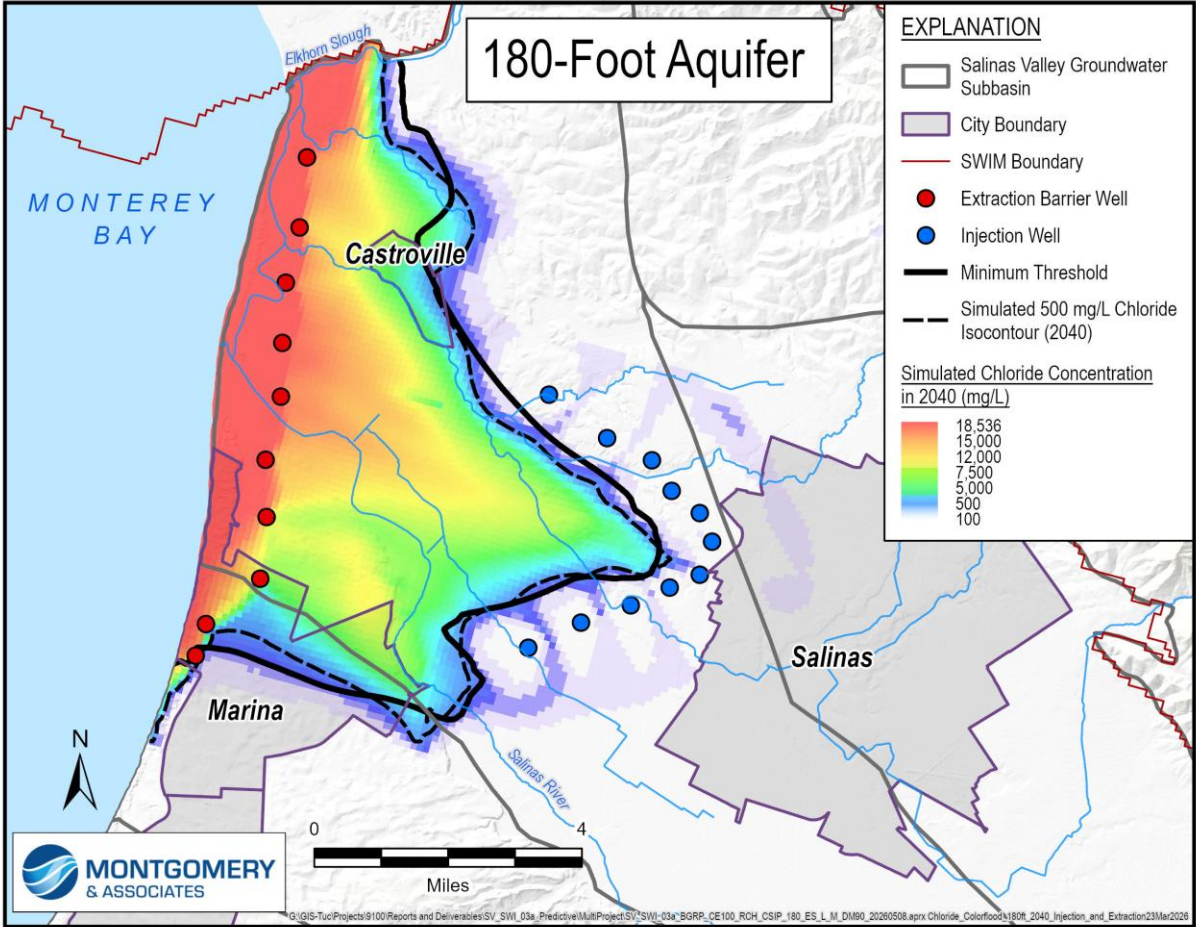
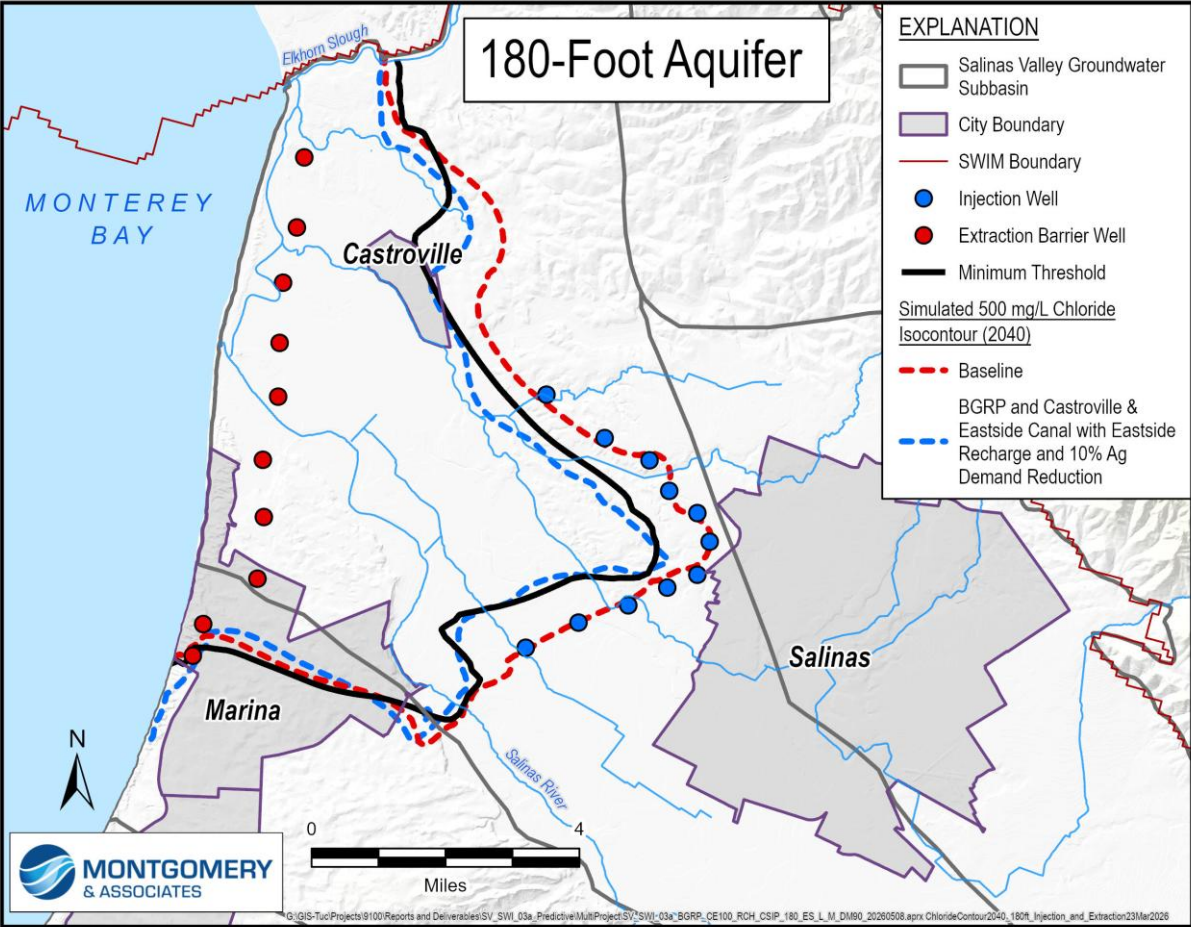


Portfolio 1 Map

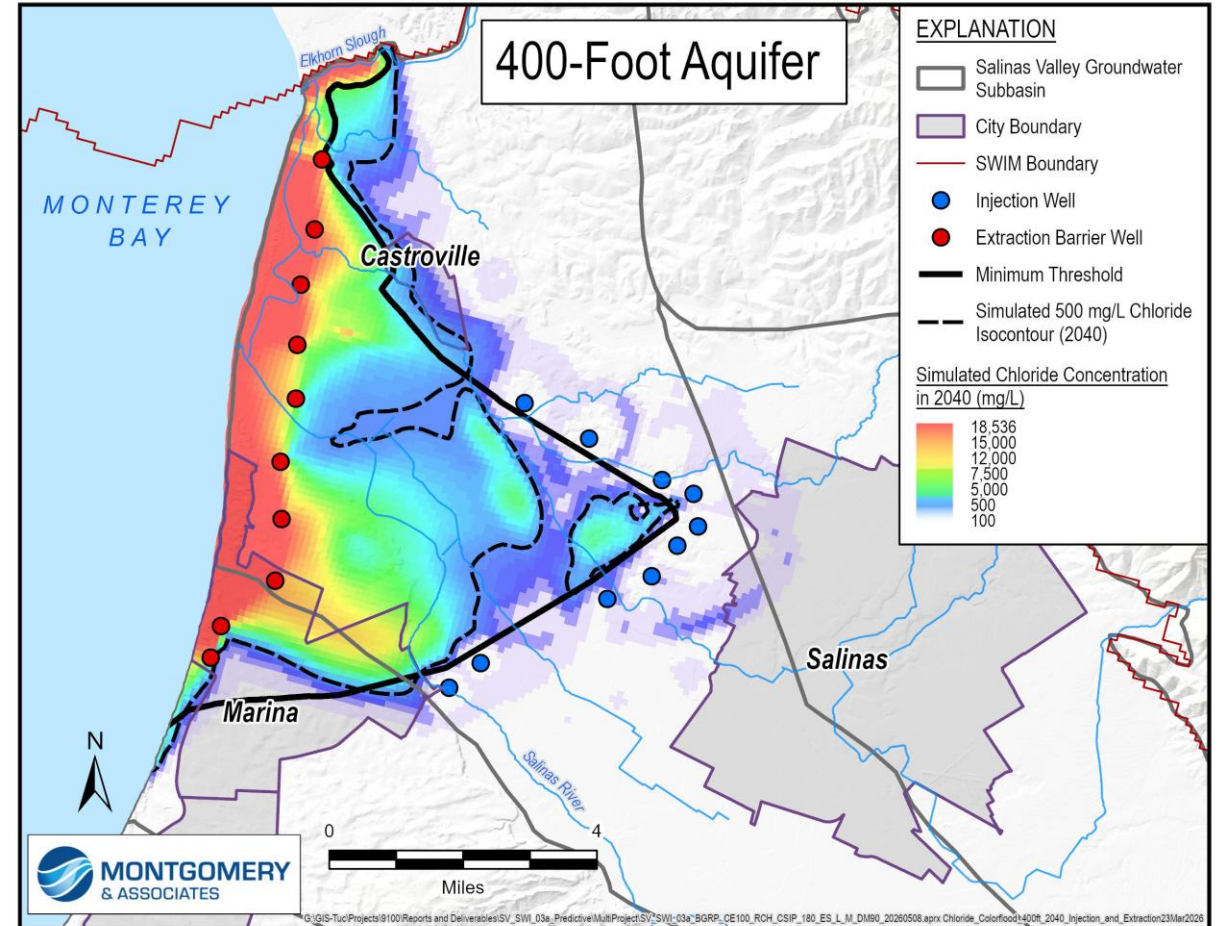
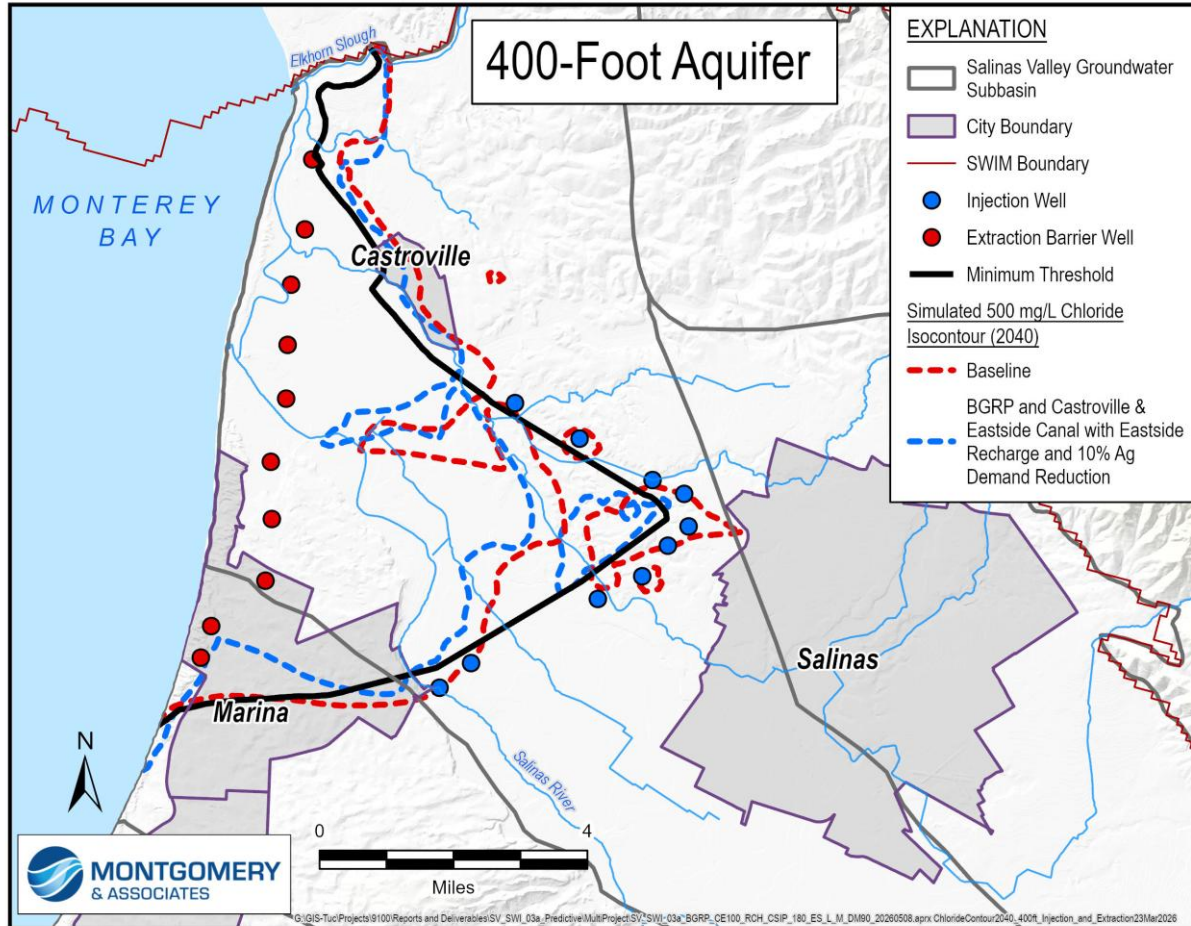
Chloride Contour Progression



180-Ft Aquifer Chloride Results in 2040



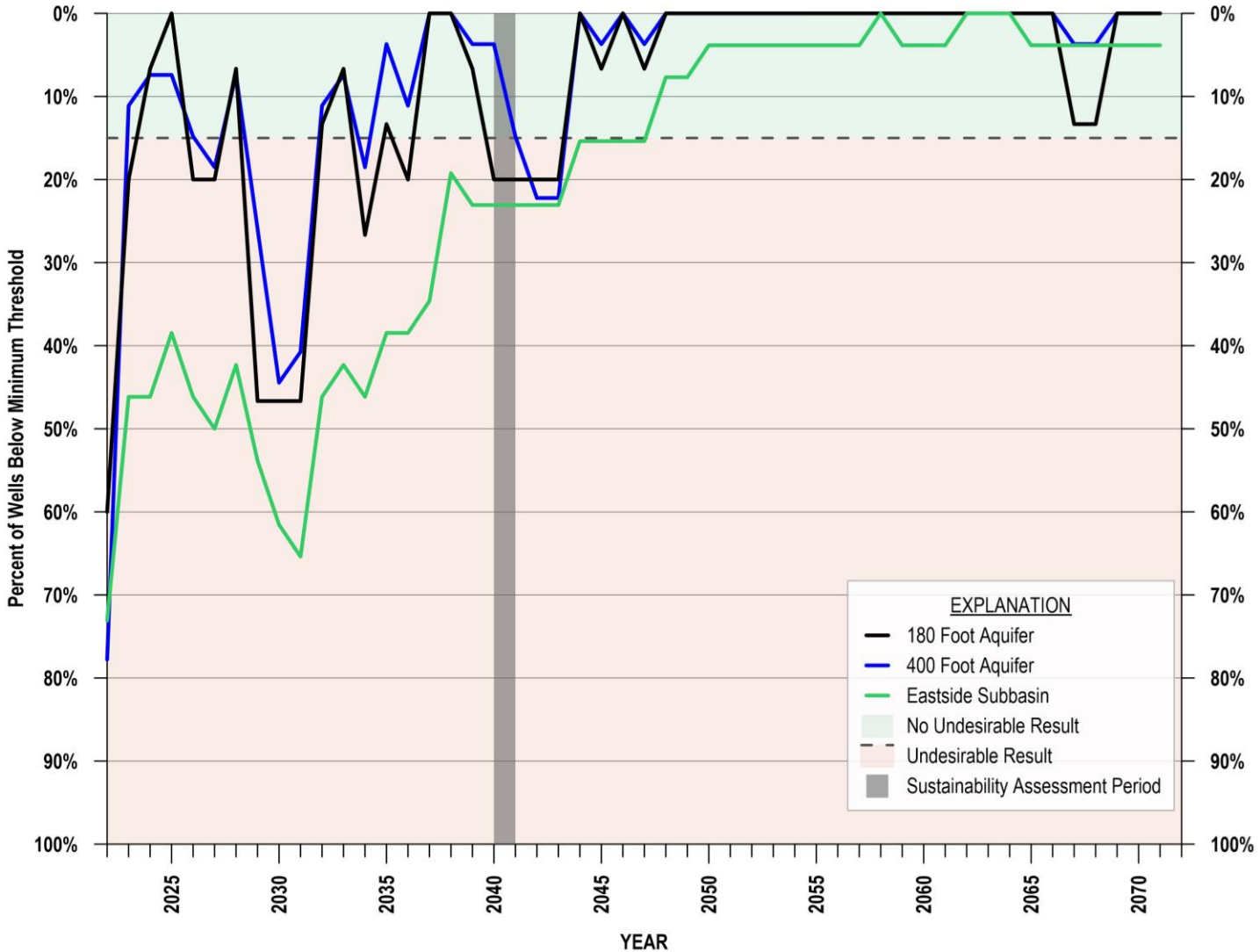
400-Ft Aquifer Chloride Results in 2040



Groundwater Level SMC: Portfolio 1

Subbasin/Aquifer	Threshold Exceedances	Total Wells	% Threshold Exceedances
180-Foot Aquifer	4	21	19%
400-Foot Aquifer	3	29	10%
Eastside Subbasin	7	33	21%
Langley Subbasin	7	13	54%

Groundwater Level SMC: Portfolio 1



Portfolio 3B

Small BGRP with Direct Delivery and Injection

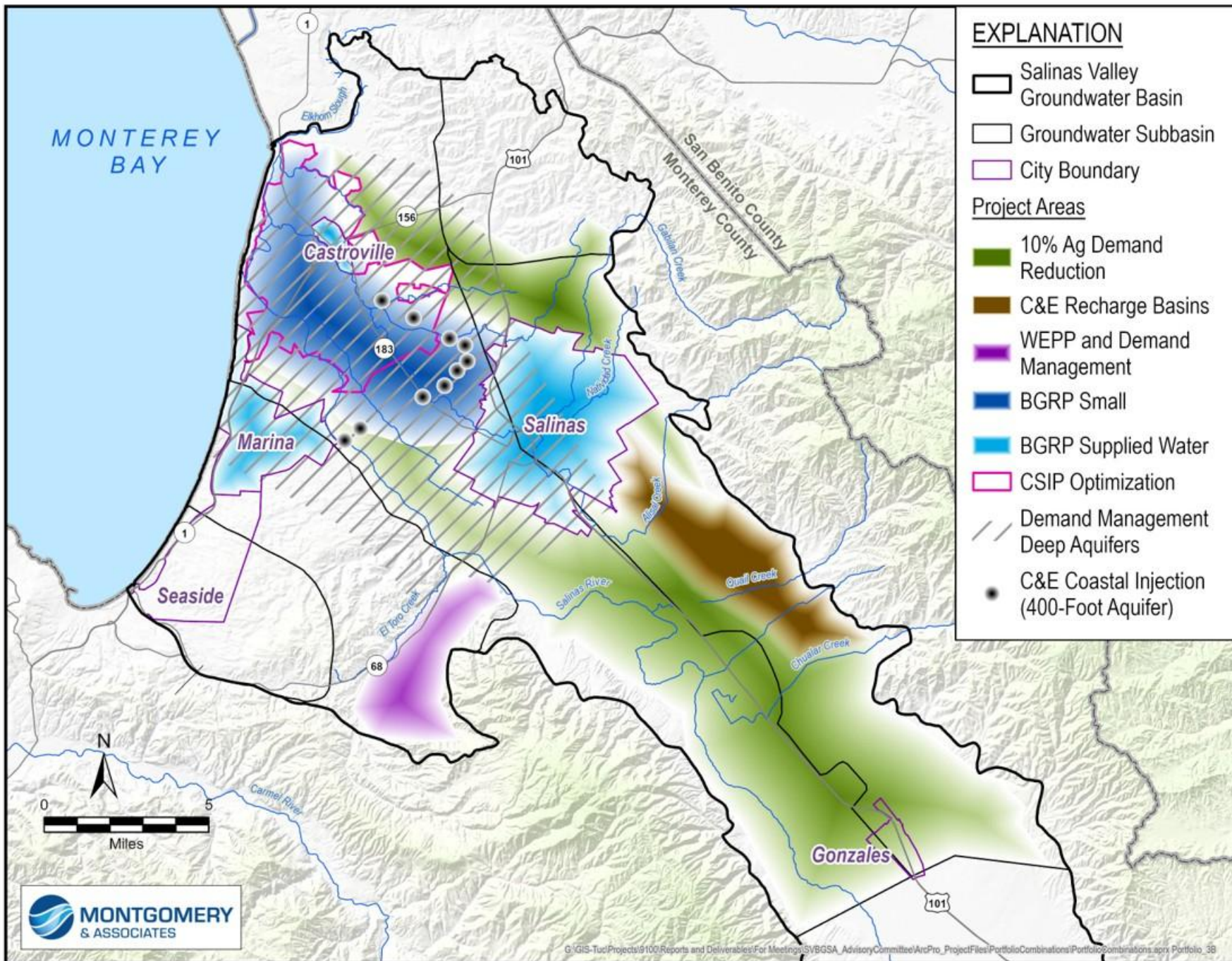
C&E 100 CFS Recharge Basins

CSIP Optimization

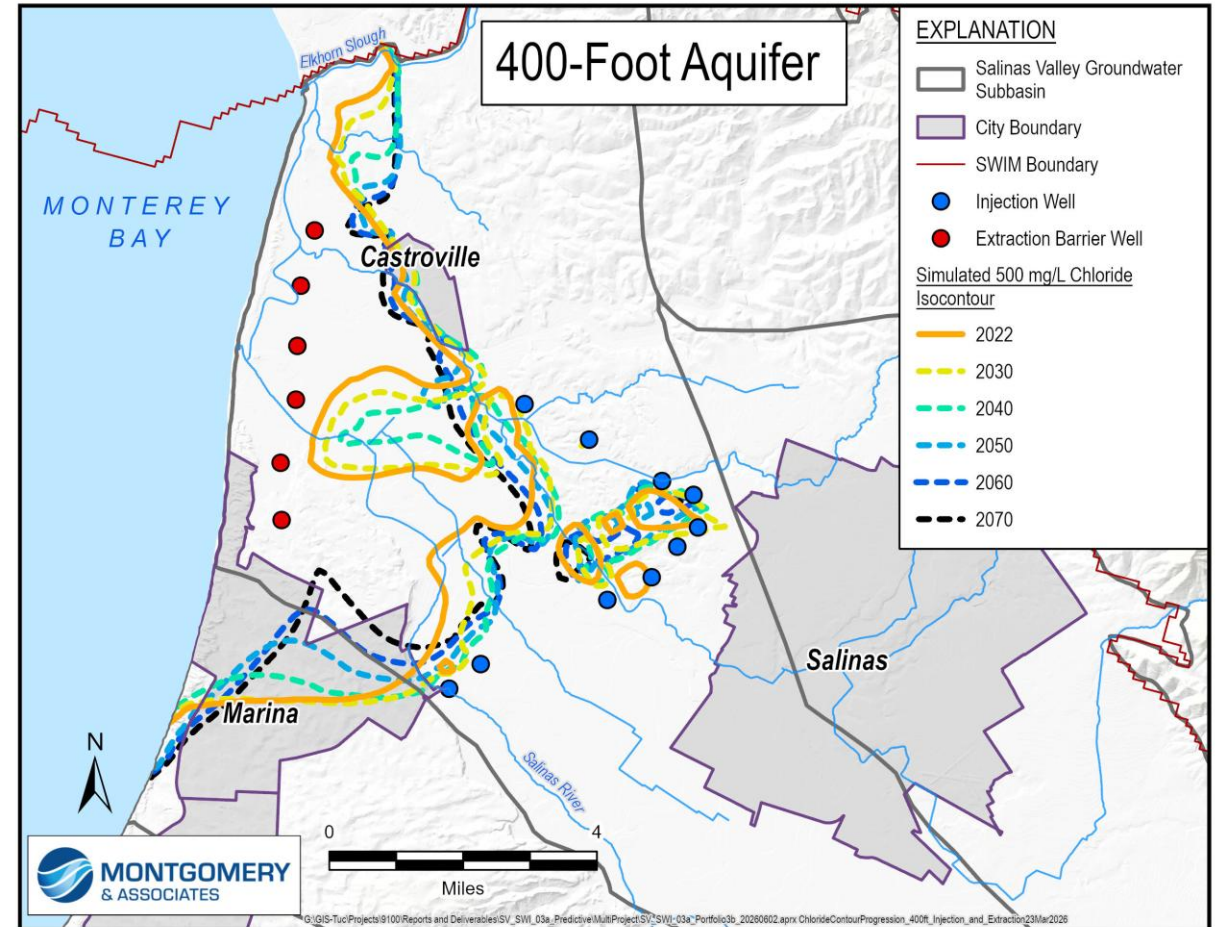
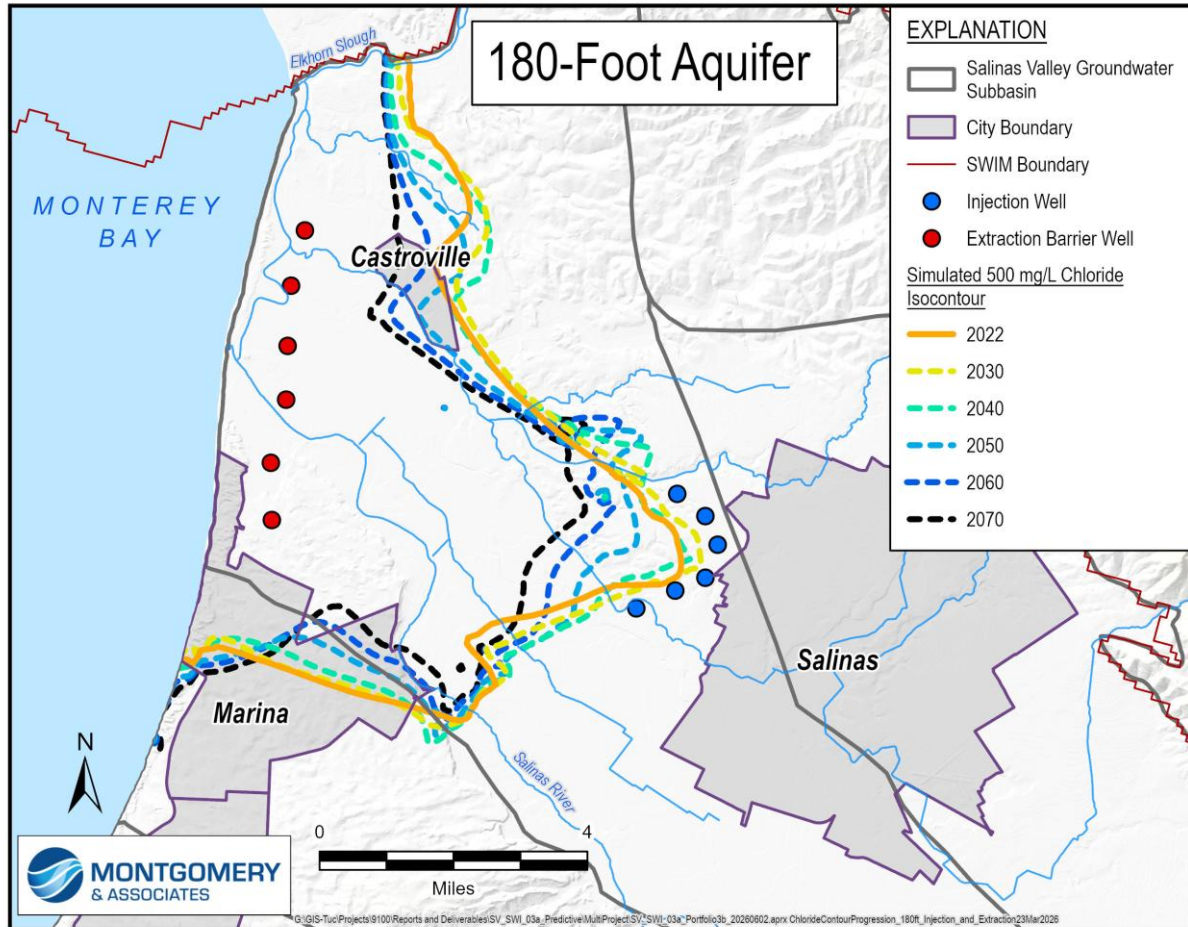
10% Ag Demand Management (North Valley)

C&E Injection (400-Foot Aquifer) with 50 CFS
Diversion

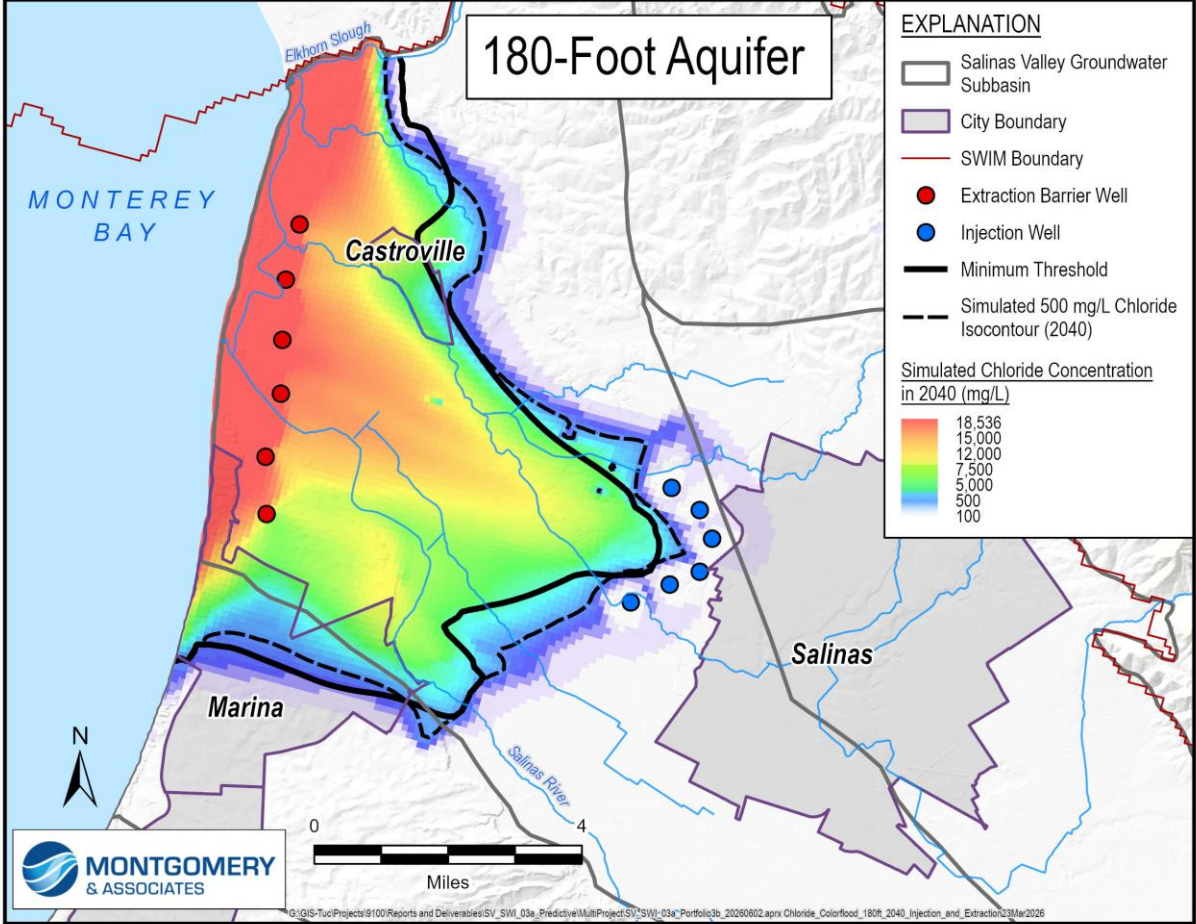
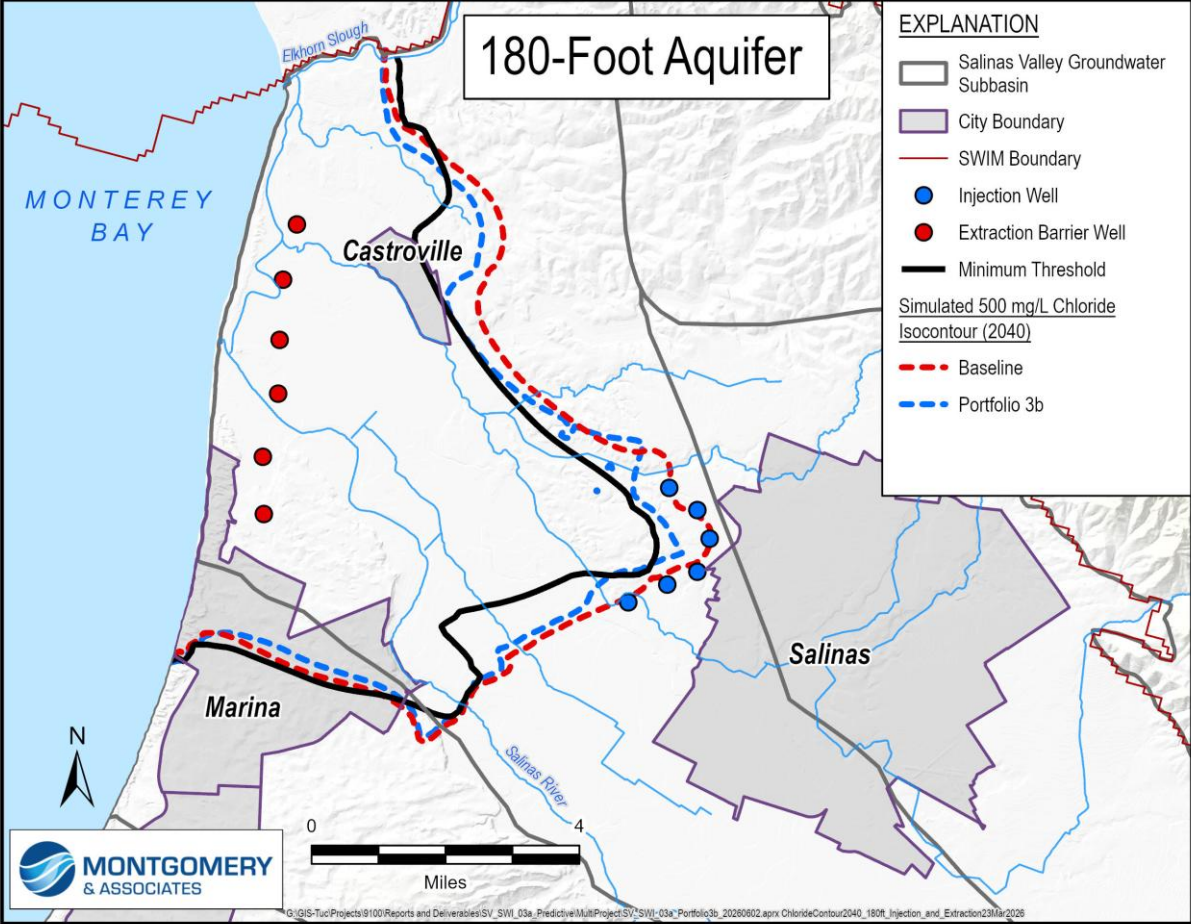
Portfolio 3B Map



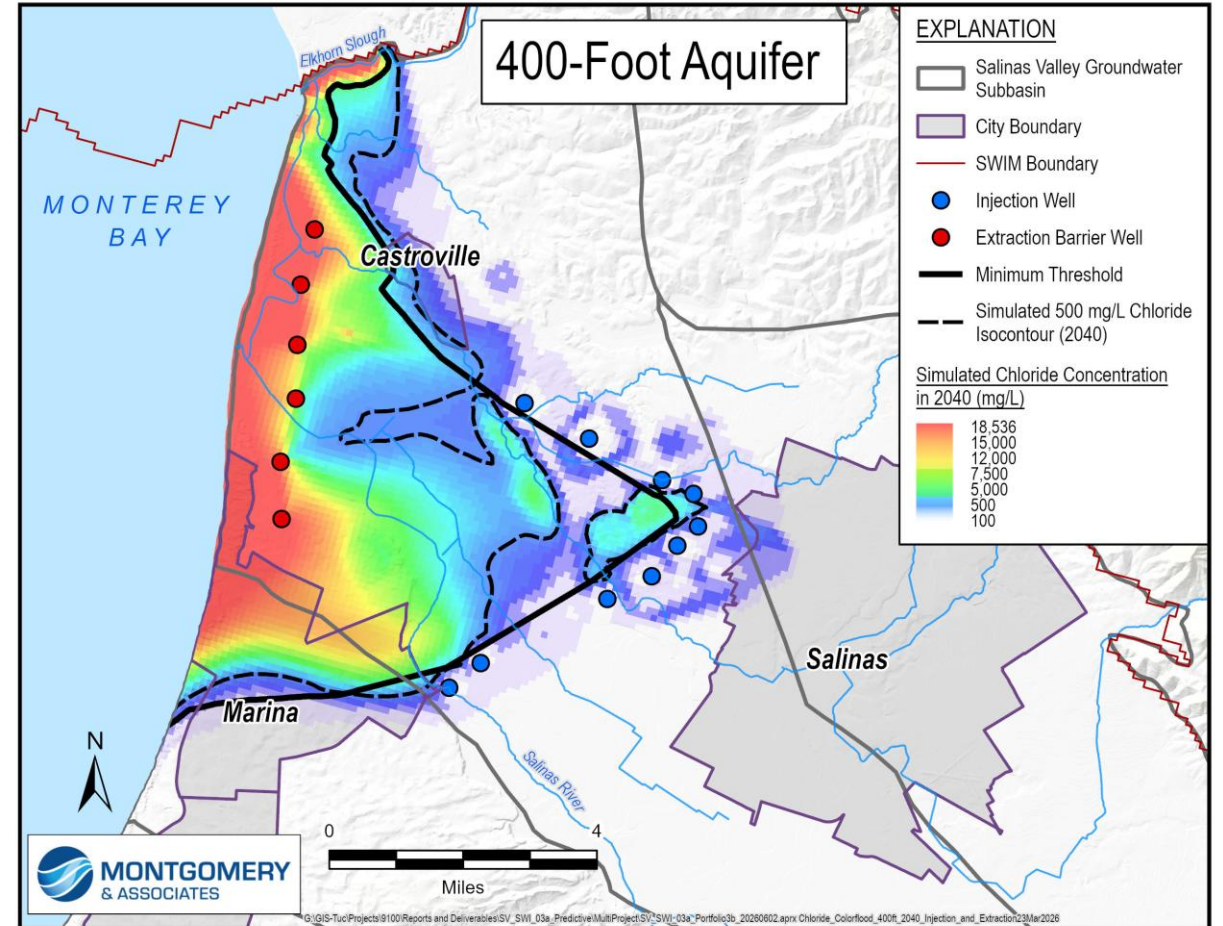
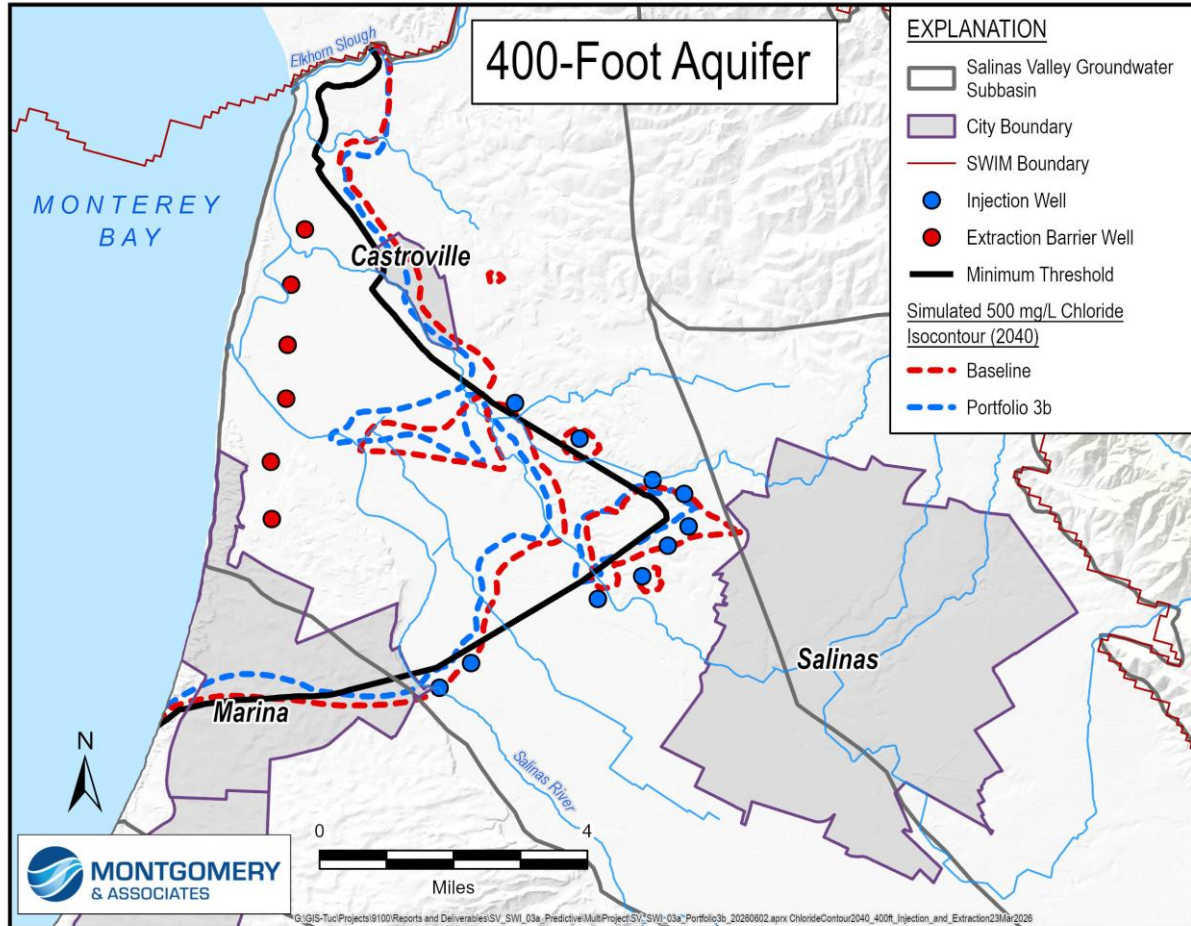
Chloride Contour Progression



180-Ft Aquifer Chloride Results in 2040

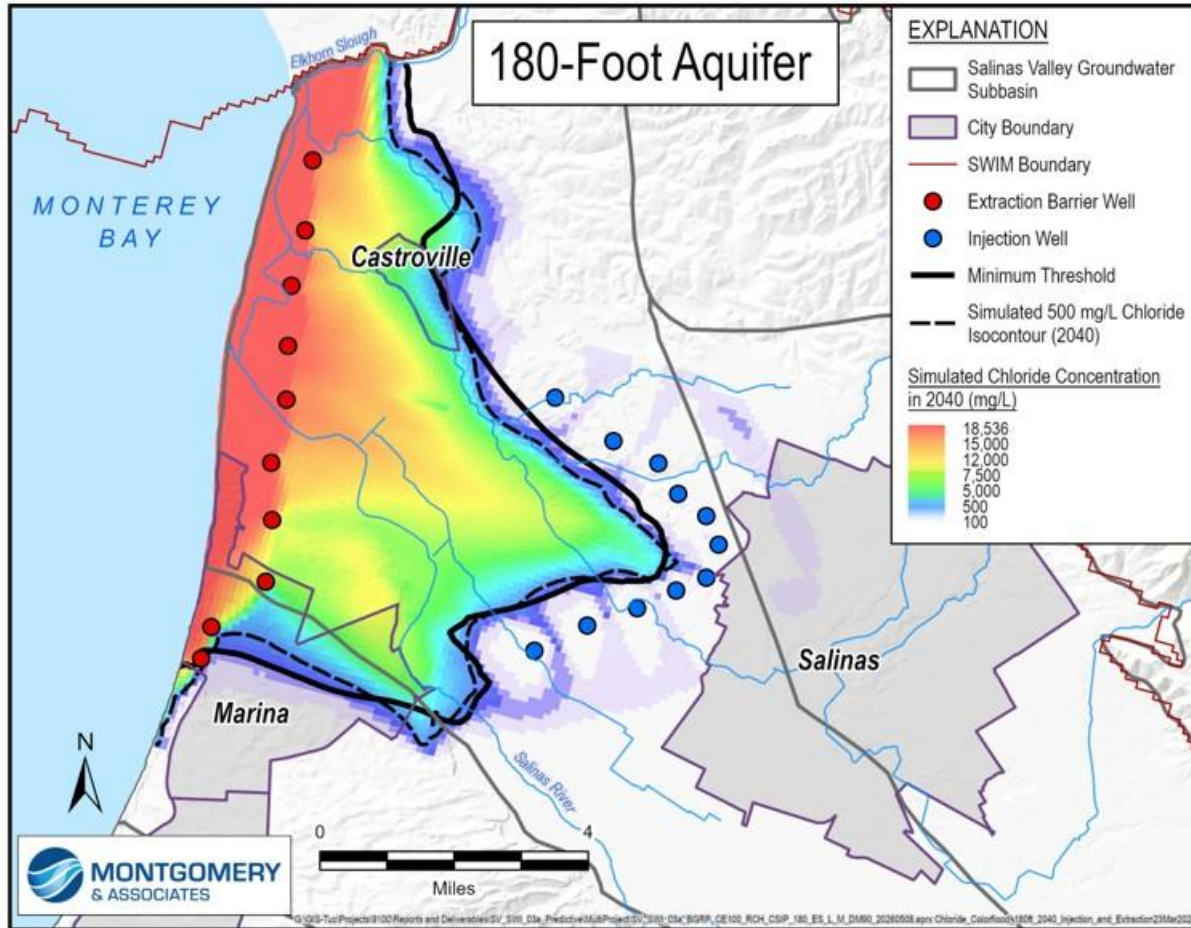


400-Ft Aquifer Chloride Results in 2040

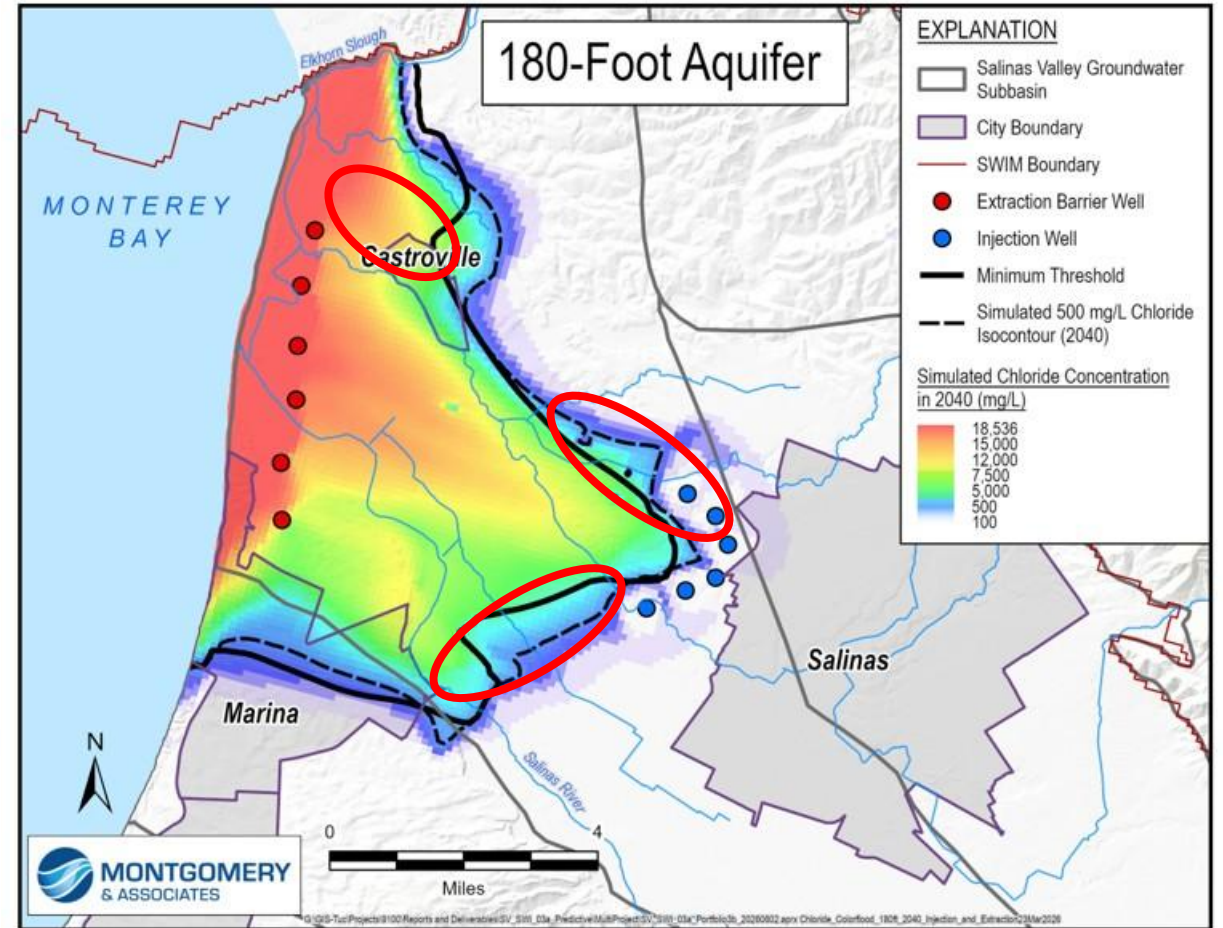


180-Ft Aquifer Chloride: Portfolios 1 and 3B

Portfolio 1

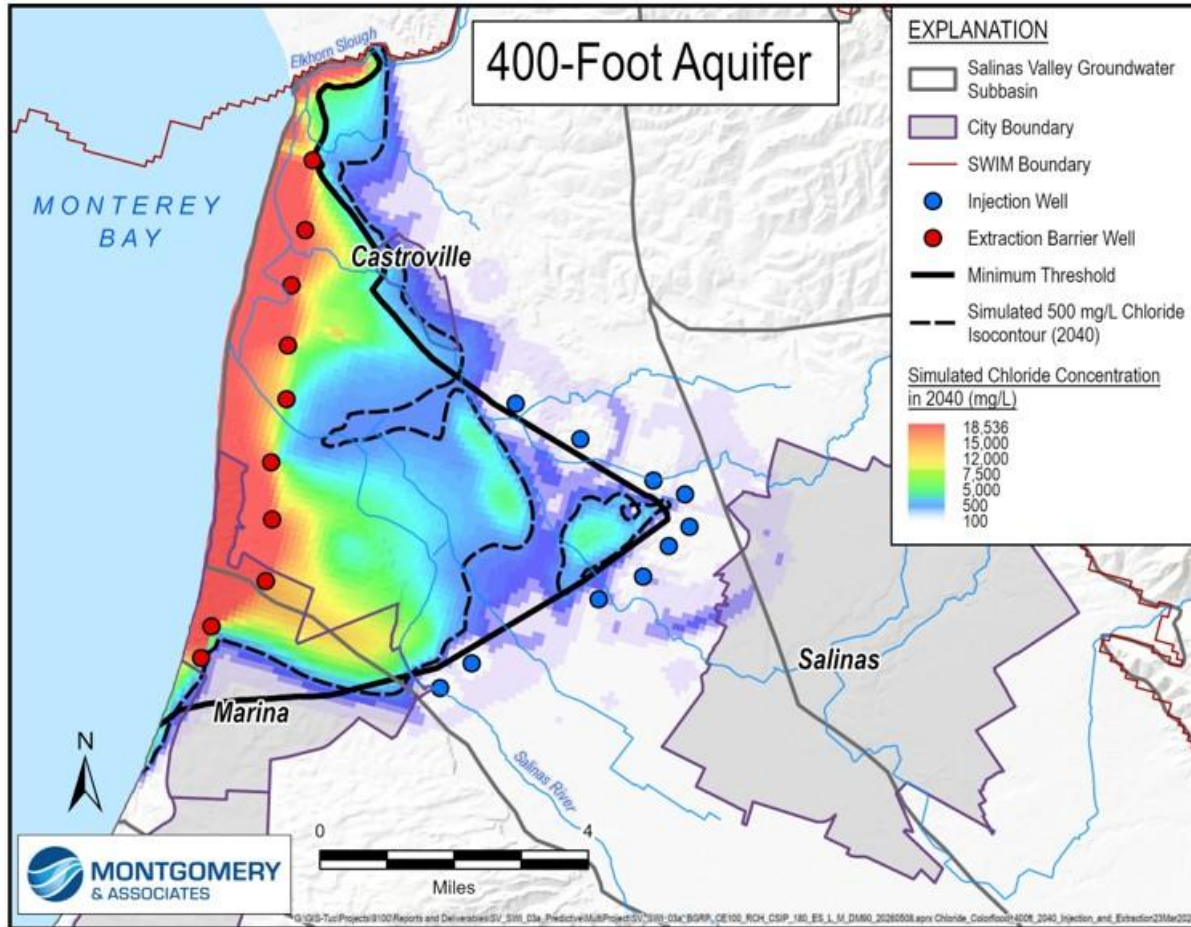


Portfolio 3B

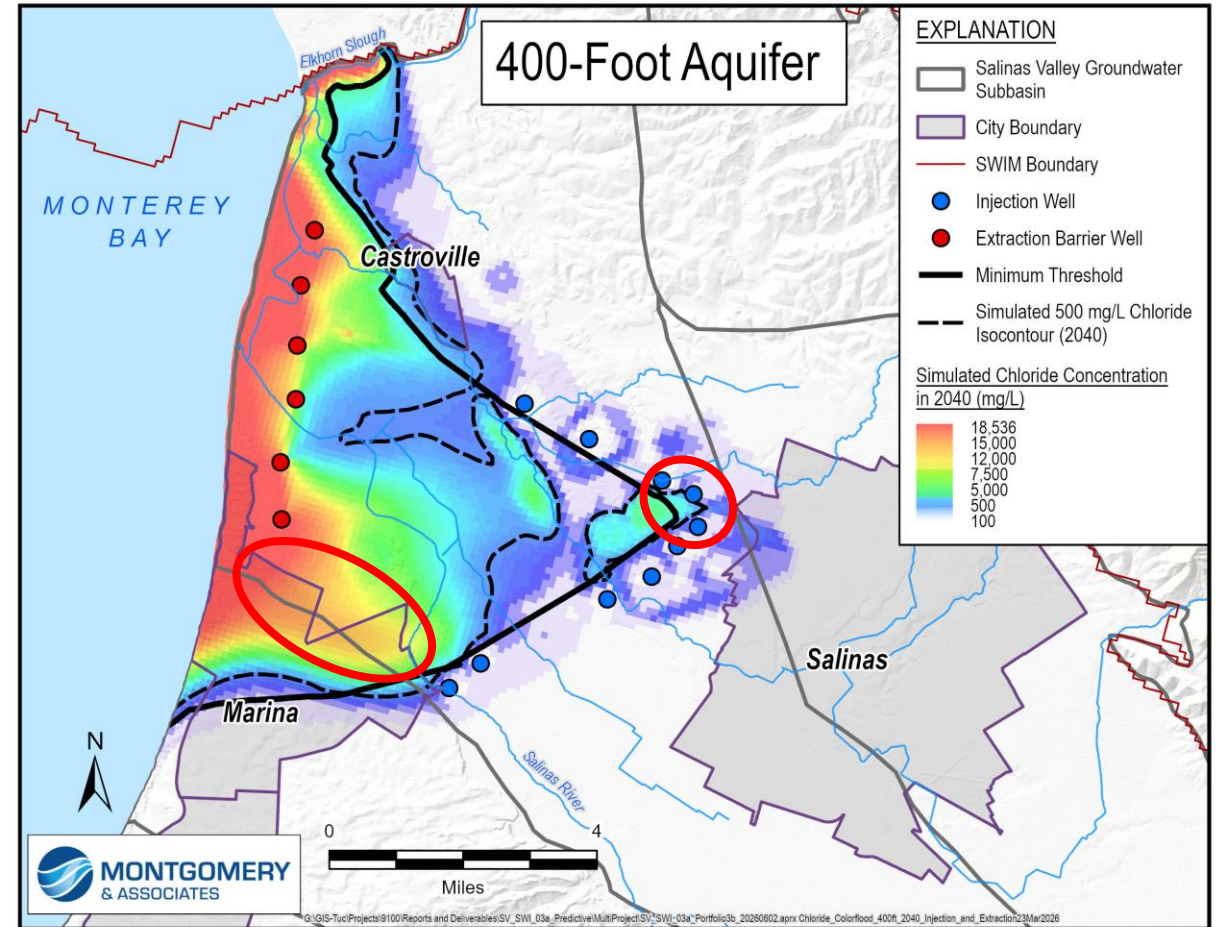


400-Ft Aquifer Chloride: Portfolios 1 and 3B

Portfolio 1



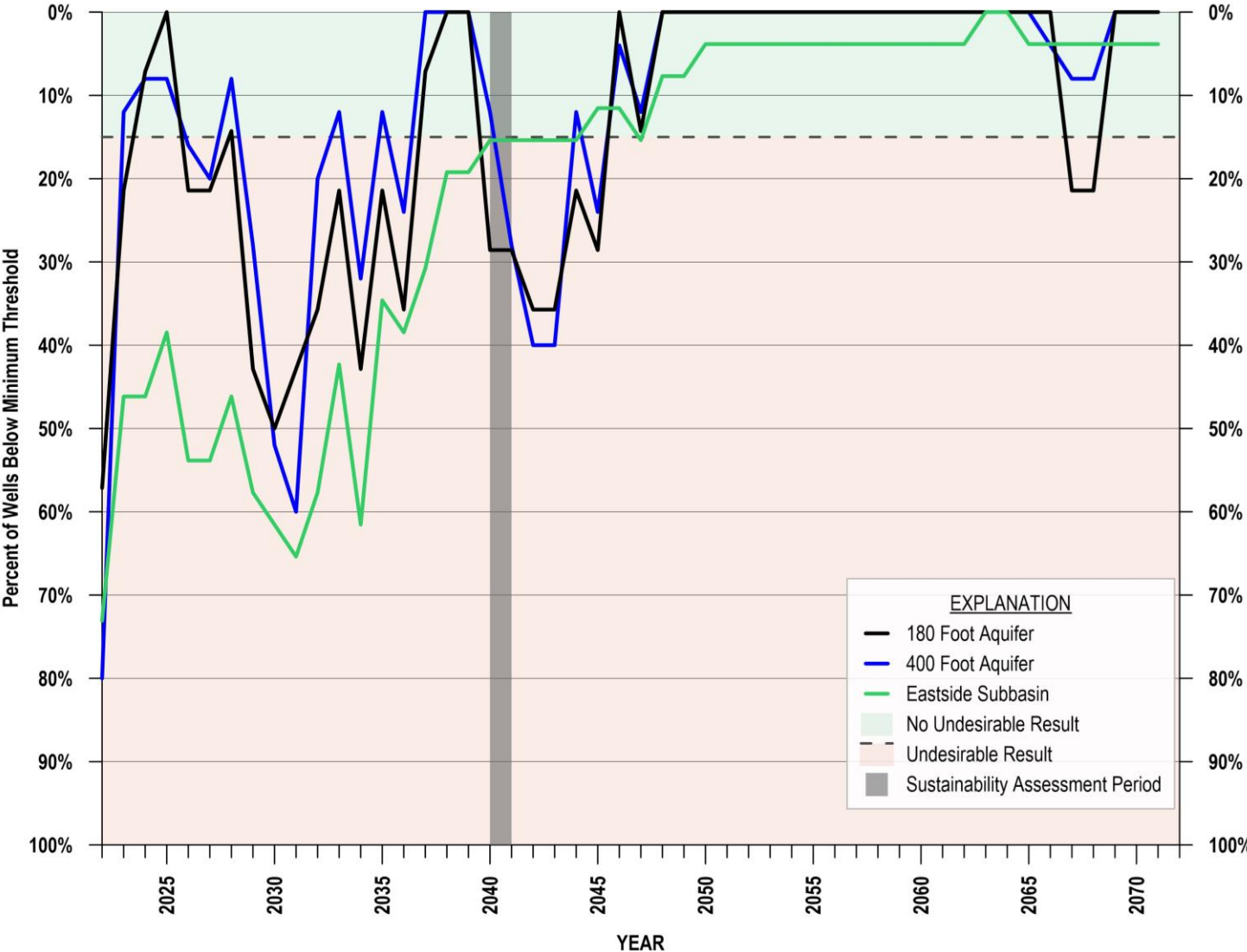
Portfolio 3B



Groundwater Level SMC: Portfolio 3b

Subbasin/Aquifer	Threshold Exceedances	Total Wells	% Threshold Exceedances
180-Foot Aquifer	6	20	30%
400-Foot Aquifer	5	27	19%
Eastside Subbasin	5	33	15%
Langley Subbasin	7	13	54%

Groundwater Level SMC: Portfolio 3b



Portfolio 4

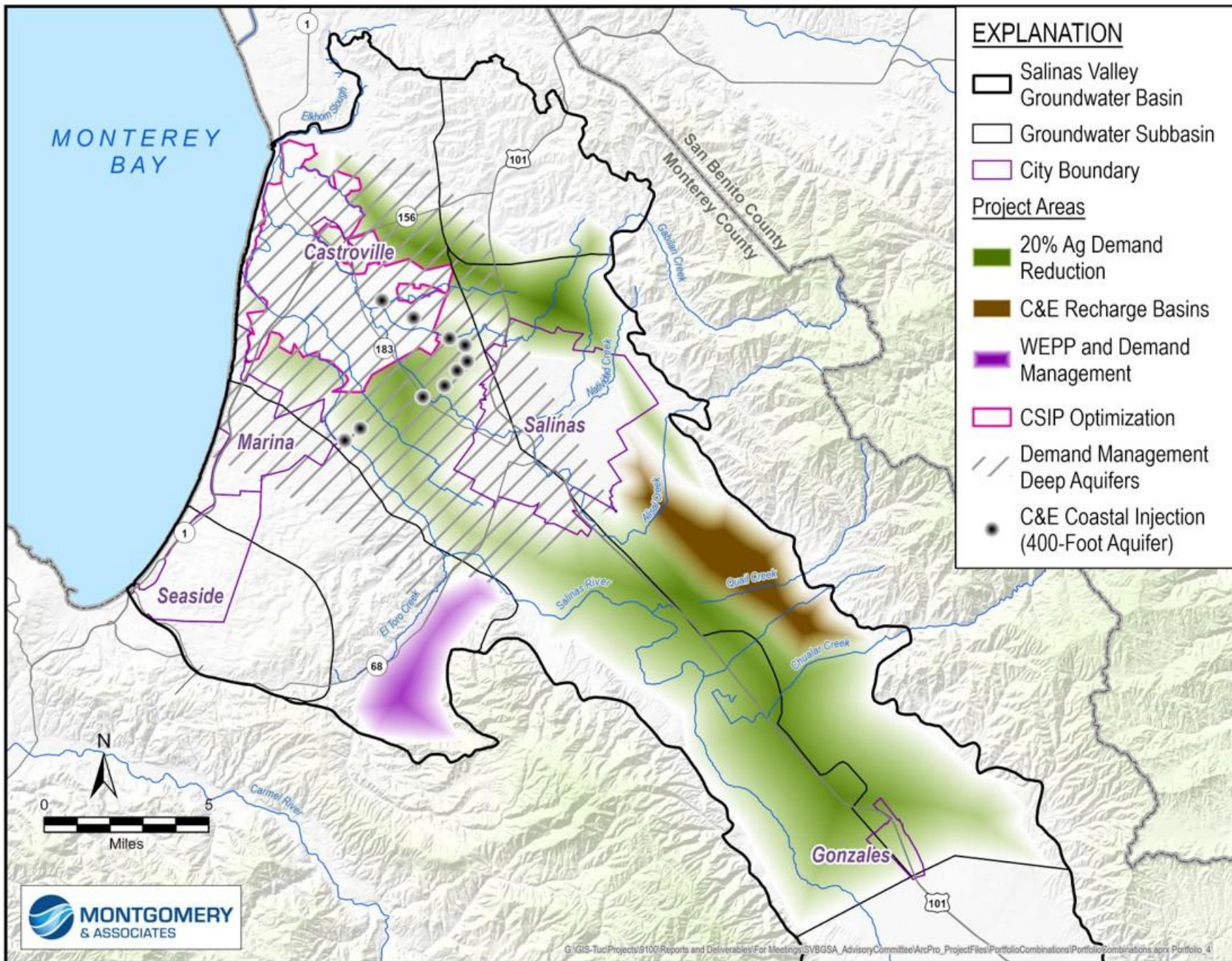
C&E 50 CFS Recharge Basins

CSIP Optimization

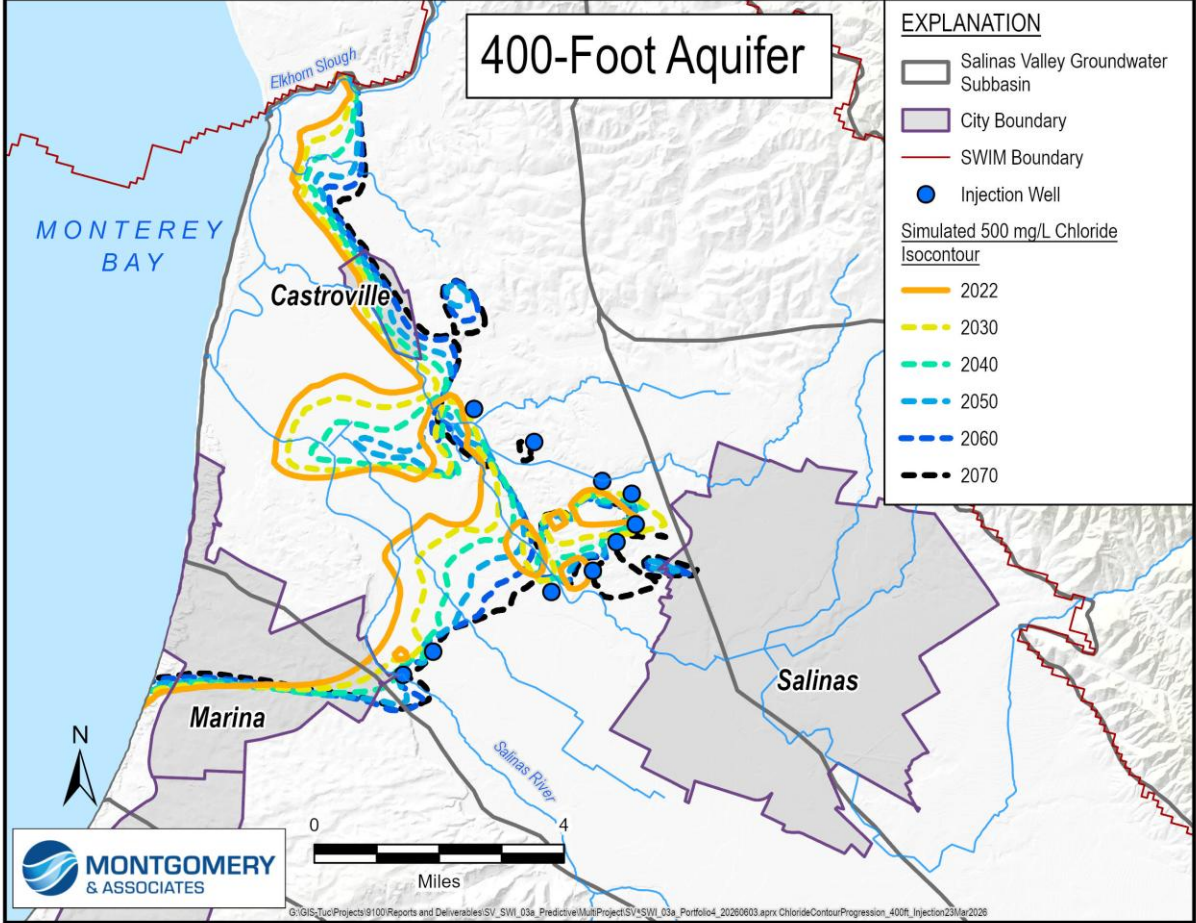
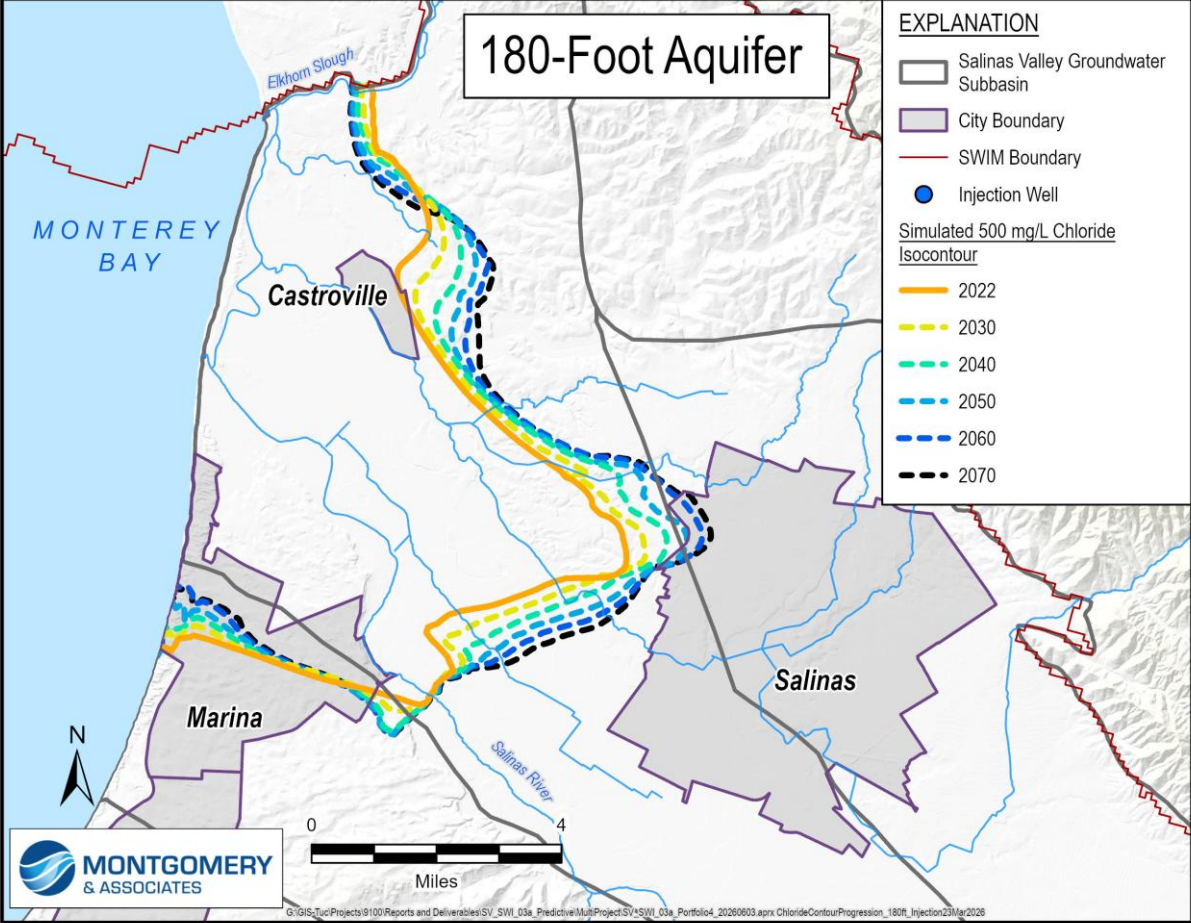
20% Ag Demand Management (North Valley)

C&E Injection (400-Foot Aquifer) with 50 CFS
Diversion

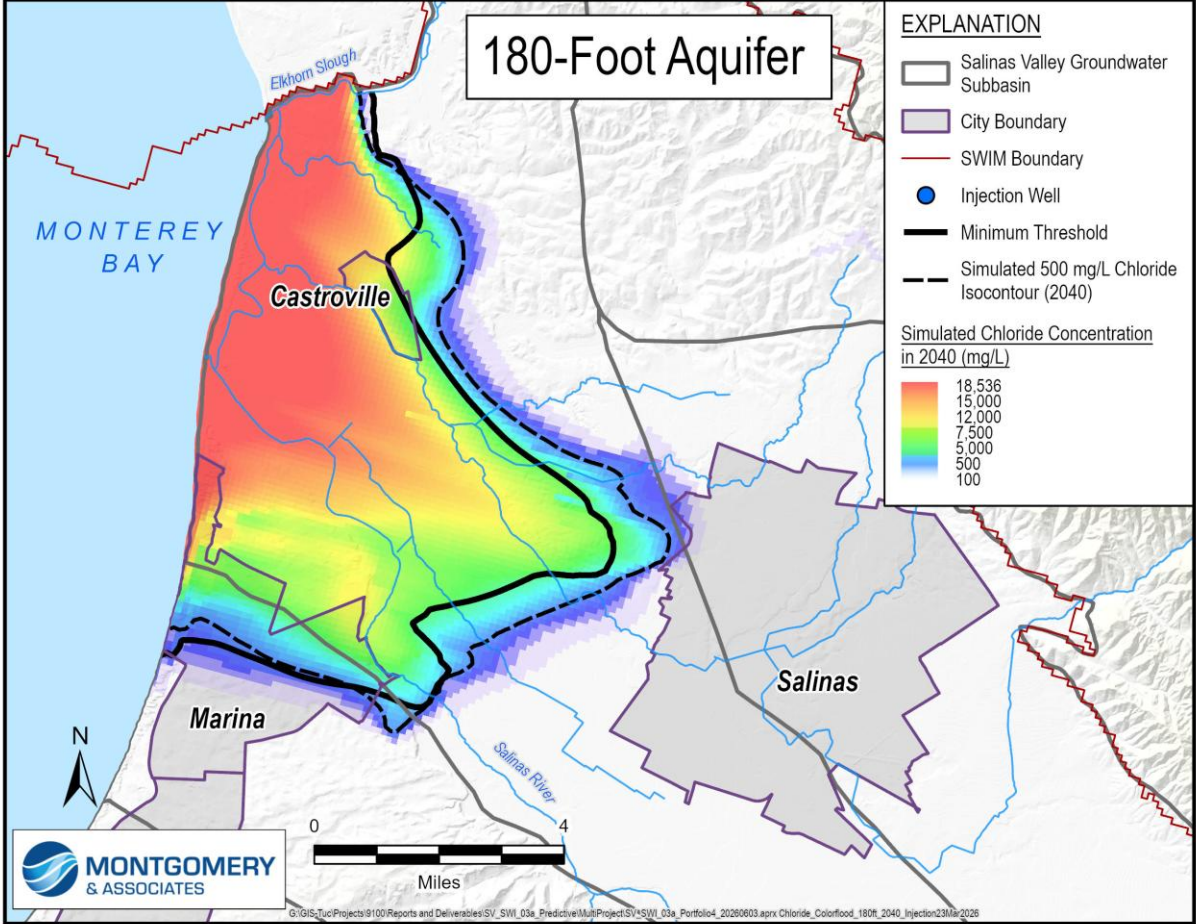
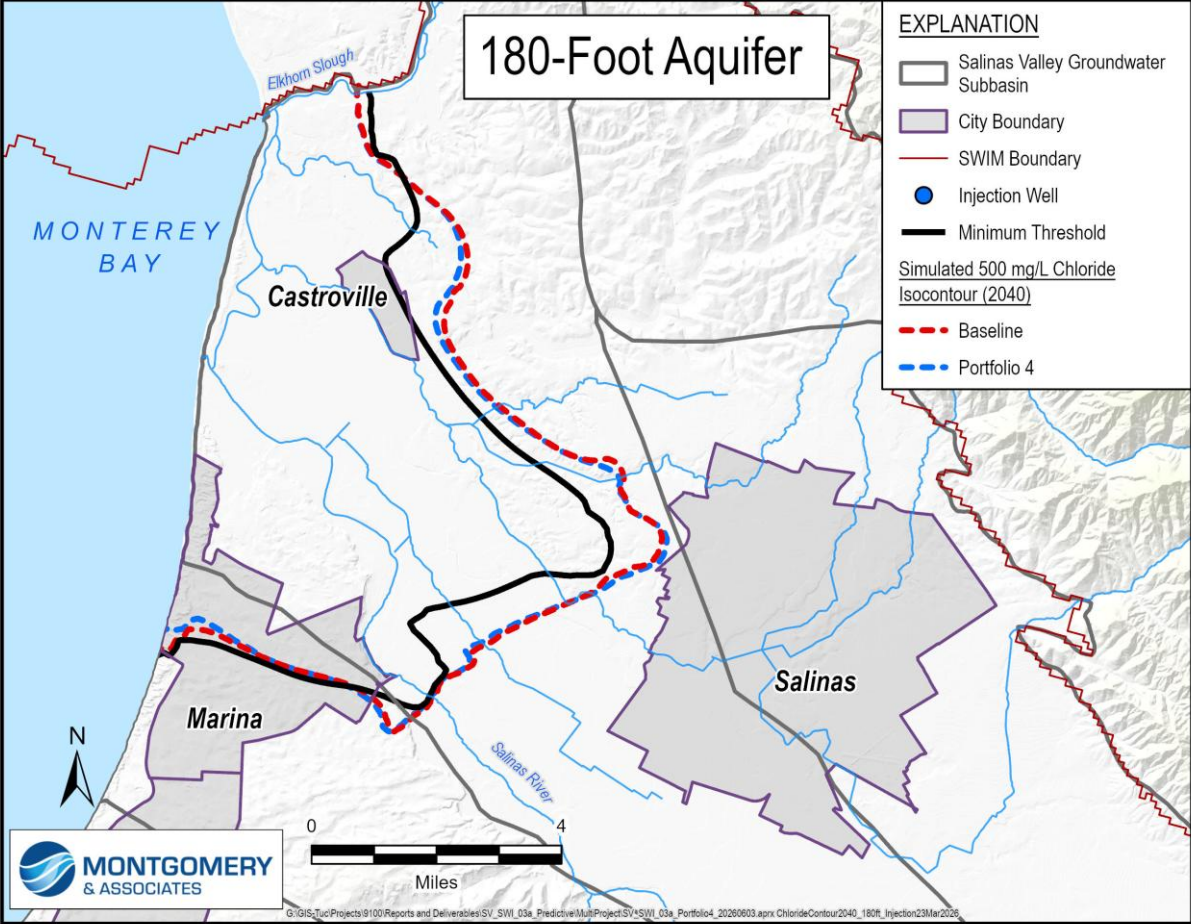
Portfolio 4 Map



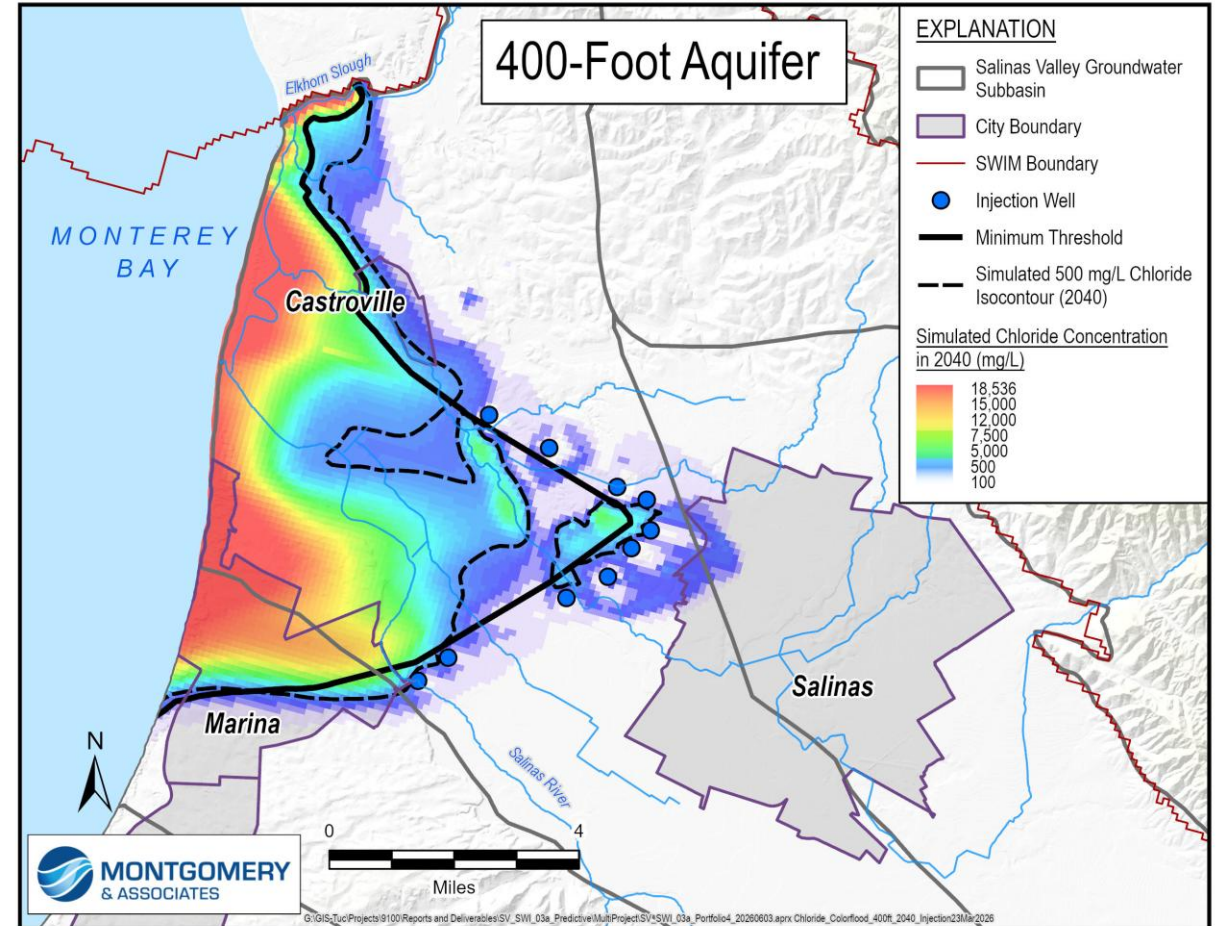
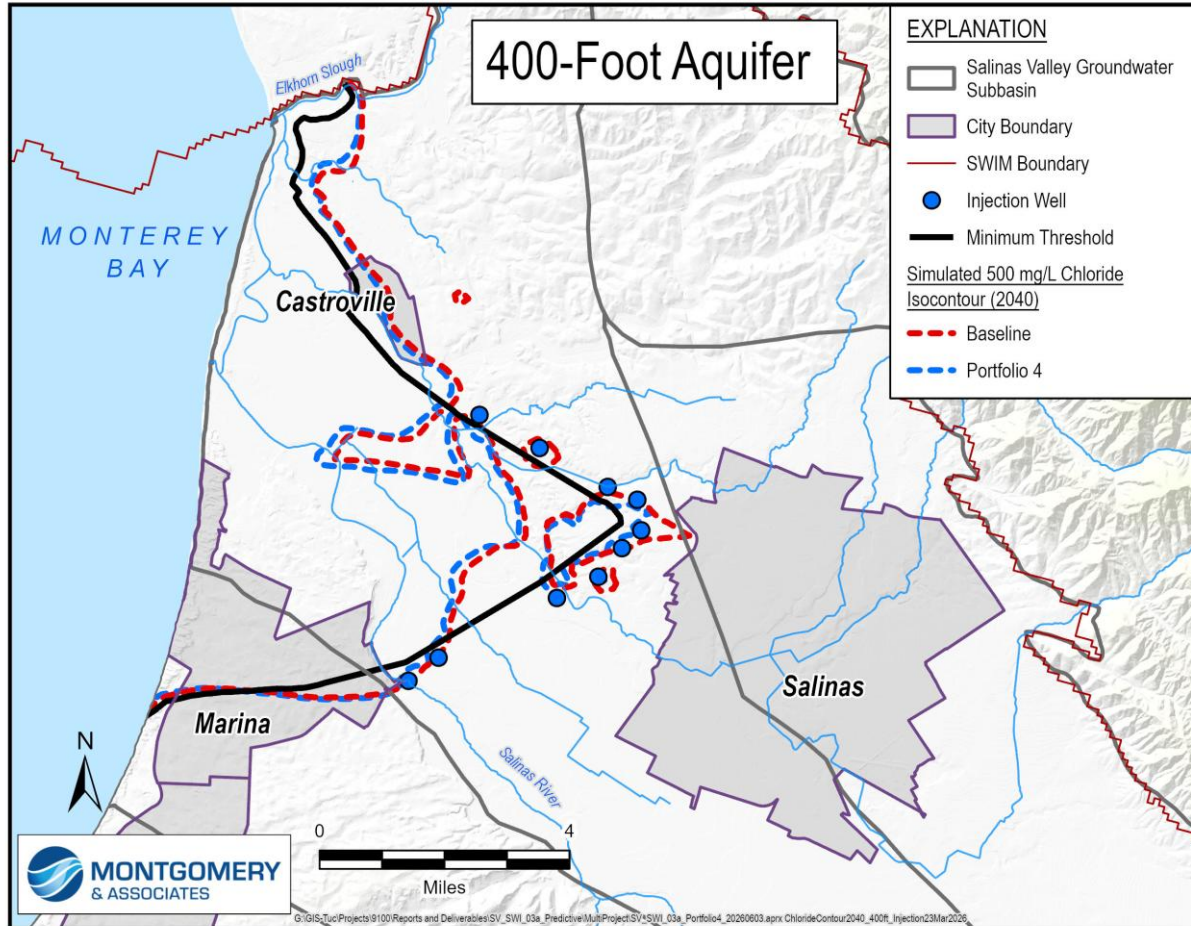
Chloride Contour Progression



180-Ft Aquifer Chloride Results in 2040



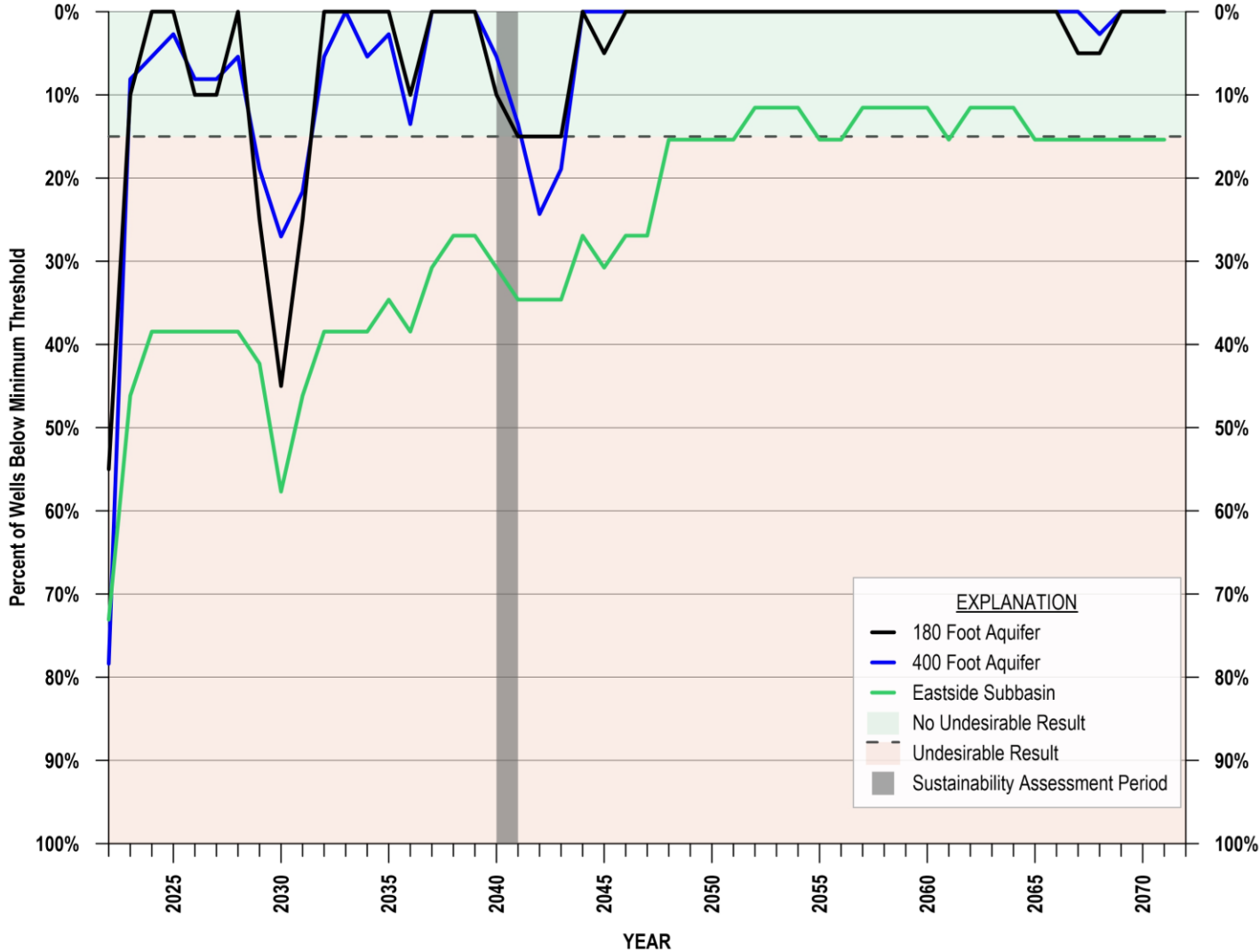
400-Ft Aquifer Chloride Results in 2040



Groundwater Level SMC: Portfolio 4

Subbasin/Aquifer	Threshold Exceedances	Total Wells	% Threshold Exceedances
180-Foot Aquifer	4	26	15%
400-Foot Aquifer	3	39	8%
Eastside Subbasin	9	33	27%
Langley Subbasin	5	13	38%

Groundwater Level SMC: Portfolio 4



Effectiveness Summary

	Avoid Seawater Intrusion Undesirable Result	Avoid Groundwater Level Undesirable Result – 180 Foot Aquifer	Avoid Groundwater Level Undesirable Result – 400 Foot Aquifer	Avoid Groundwater Level Undesirable Result – Eastside Subbasin	Avoid Groundwater Level Undesirable Result – Langley Subbasin
Portfolio 1	Yes	No	Yes	No	No
Portfolio 3B	No (but close)	No	No	Yes	No
Portfolio 4	No	Yes	Yes	No	No

Potential Portfolio Refinements Ideas

- Remove C&E injection in 400-foot aquifer to reduce cost
- Larger projects and no demand management
- Other?

Questions



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