

Tahoe Valley South Subbasin (6-5.01) Groundwater Management Plan

2018 Stakeholder Advisory Group
Workshop 1

October 9, 2018

South Y Feasibility Study Update



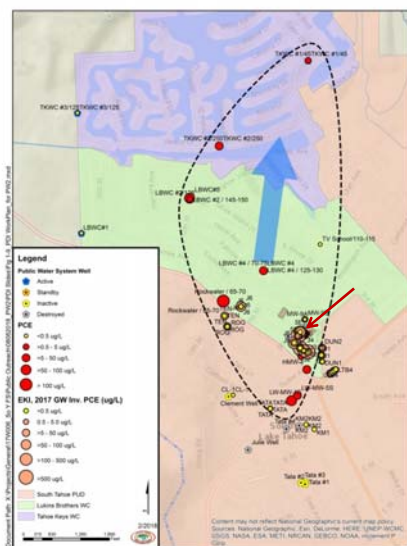
South Y Feasibility Study

- Pre-Design Investigation and Feasibility Study to evaluate whether existing and/or new wells can be used to provide hydraulic control and removal of tetrachloroethylene (PCE) from groundwater.
- Prop. 1 Groundwater Cleanup Grant (Agreement D1712508)

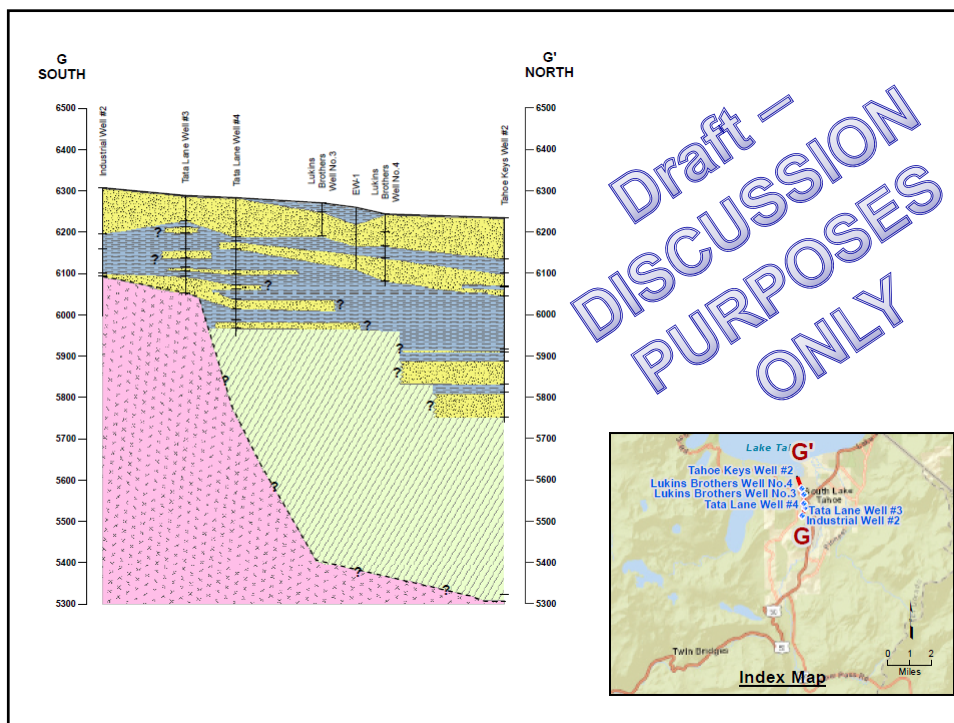
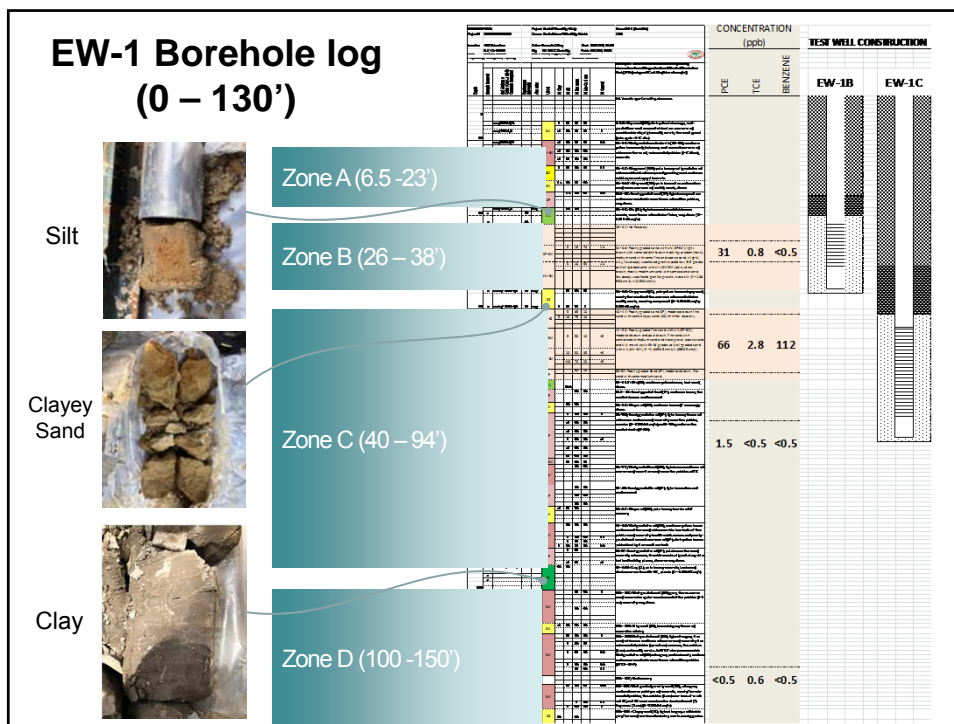
COMPLETED

MILESTONE	DATE
• Finalize Grant Agreement	3/29/2018
• Establish TAC/SAG	1/25/2018 - 6/11/2018
• Public Meeting 1	2/7/2018
• Pre-Design Investigation (PDI) Workplan	1/24/2018 – 4/7/2018
• Attain Permits & Site Access Agreements	3/5/2018 – 4/26/2018
• PDI Phase 1- Test Well Drilling Program	4/29/2018 – 7/2/2018
• Baseline Sampling	5/2/2018
• PDI Phase 2 – Aquifer Testing Program	7/9/2018 – 7/14/2018
• Feasibility Study (FS) Kick-Off Meeting	7/18/2018
• Public Meeting 2	8/8/2018

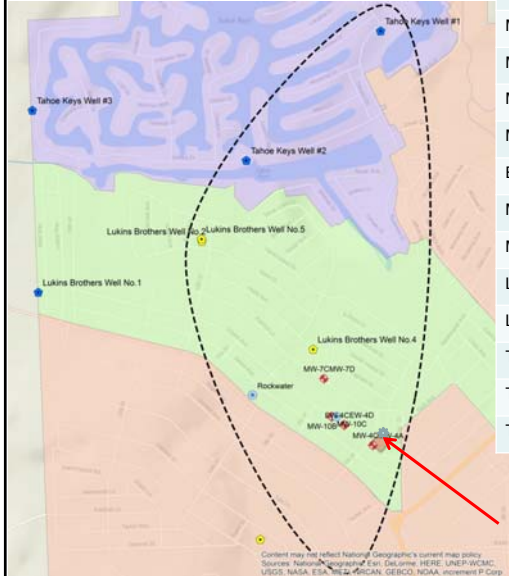
Pre-Design Investigation



- OBJECTIVES
 - Assess the vertical extent of PCE contamination;
 - Collect water quality and engineering information useful for engineering design



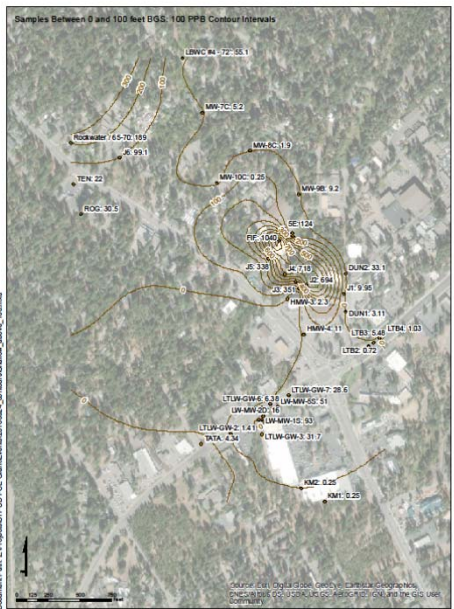
BASELINE SAMPLING

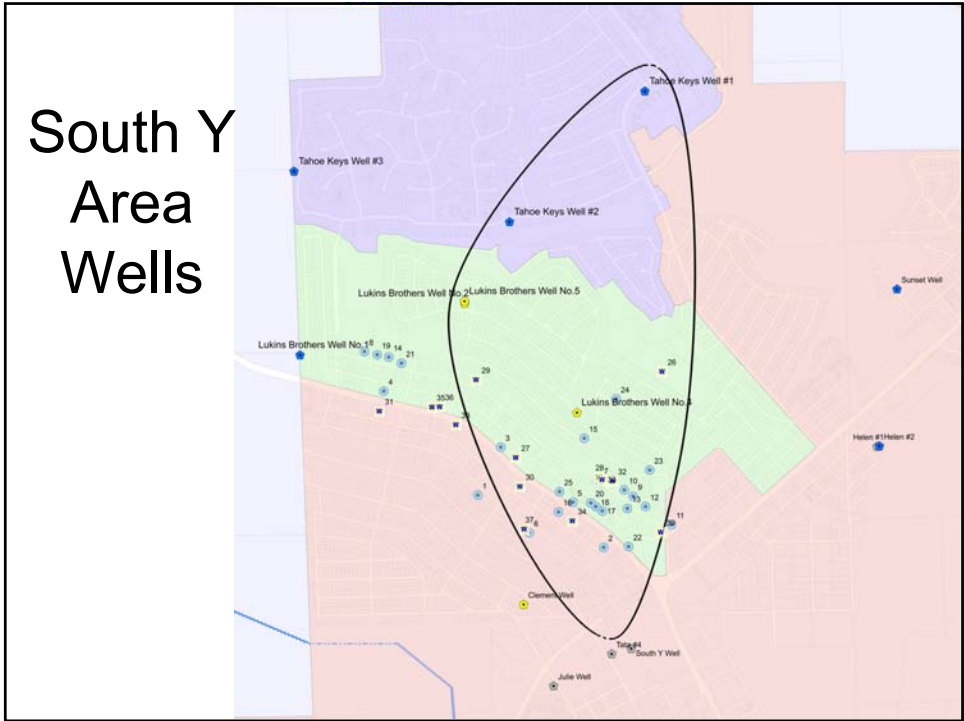


Well ID	Depth (ft)	PCE (ppb)	TCE (ppb)	Sample Date
MW-4A	15 -25	1.5	<0.5	5/2/2018
MW-4B	35 - 50	64	2.3	5/2/2018
MW-4C	59 - 79	2.7	<0.5	5/2/2018
MW-10B	35-50	<0.5	<0.5	5/2/2018
MW-10C	65 - 80	<0.5	<0.5	5/2/2018
EW-4D	120 - 140	<0.5	<0.5	5/2/2018
MW-7C	70 - 80	3.4	<0.5	5/2/2018
MW-7D	120 - 140	14	<0.5	5/2/2018
LBWC#1	132 - 182	<0.5	<0.5	3/13/2018
LBWC #5	141 - 180	60	1.4	6/18/2018
TKWC #1	125 - 312	2.4	<0.5	7/13/2018
TKWC #2	138 - 188	24	NR	7/6/2018
TKWC #3	175 - 300	<0.5	NR	7/13/2018

2016 – 2018 PCE RESULTS (ppb) Sample Depth < 100 Feet C. I. = 100 ppb

**DRAFT -
DISCUSSION
PURPOSES
ONLY**





South Y Area Wells

In-Progress

MILESTONE	DATE
• PDI Data Analysis & Reporting	7/15/2018 – 11/2/2018
• FS Workplan (Draft)	9/13/2018 – 10/3/2018
• Preliminary Modeling Runs	7/19/2018 – 10/15/2018 (?)
• Define Remedial Alternatives	7/19/2018 – 10/15/2018 (?)

LOOK- AHEAD

EVENT	DATE (estimated)
South Y GW Level Monitoring Event	October (tbd)
TAC/SAG Meeting 3	10/23/2018
Public Workshop 3/ CSLT Council Chamber	11/7/2018
Fate and Transport Modeling Analysis	January 2019
Public Workshop 3/ CSLT Council Chamber	February 2019
Feasibility Study - Completed	March 2019
Interim Remedial Action Plan - Completed	May 2019
Project - Completed	July 31, 2019

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*Draft 2018 SGMA Basin
Prioritization*



2014 CASGEM BASIN PRIORITIZATION

CASGEM BASIN SUMMARY

Hydrologic Region: North Lahontan
North Central Region Office (NCRO)
Basin Area: 14814 acres (23.1 miles)
2010 Population: 25967

Basin: TAHOE VALLEY
Sub_Basin: TAHOE SOUTH
Basin Number: 6-5.01
Date: 5/30/2014

DATA COMPONENT RANKING VALUE TABLE

Data Component	Ranking Range (x)	Units	Ranking Value	Confidence Adjustment	Average of Components	Adjusted Ranking Values
1. Population	1000 ≤ x < 2500	persons/sq-mi	3			3
2. Population Growth	x < 0	percent	0			0
3. Public Supply Wells	x ≥ 1.0	wells/sq-mi	5			5
4. Total Wells	x ≥ 20	wells/sq-mi	5	3.75		3.75
5. Irrigated Acreage	x < 1	acres/sq-mi	0			0
6. GW Reliance	0.5 ≤ x < 0.75	acre-foot/acre	4		4.5	4.5
% of Total Supply	x ≥ 80%	percent	5			
7. Impacts	--	--	2			2
8. Other Information**	--	--	0			0
Overall Basin Ranking Score	13.42 ≤ x <	--				18.3

Overall Basin Priority: Medium

Very Low Ranking Range	Low Ranking Range	Medium Ranking Range	High Ranking Range
Range < 5.75	5.75 ≥ Range < 13.42	13.43 ≥ Range < 21.08	Range ≥ 21.08

2018 Draft BASIN PRIORITIZATION

Data Component	Ranking Range	Units	DWR Priority Points
1. Population Density	$1,000 \leq x \leq 2,500$	Persons/sq-mi	3
2. Population Growth	$6 \leq x \leq 15$	percent	2
3. Public Supply Wells	$x \geq 1.0$	Wells/ sq-mi	5
4. Total Wells	$10 \leq x \leq 20$	Wells/ sq-mi	4
5. Irrigated Acreage	$x < 1$	Acres/ sq-mi	0
6a. GW Use	$0.25 \leq x \leq 0.5$	Acre-ft/acre	3
6b. GW % Supply	$x \geq 80$	GW %	5
7. Documented Impacts	$x < 3$	Total	0
8. Statewide Adjustment	$2000 < x \leq 9,500$ af; no documented impacts		V. Low
2018 Draft TOTAL			0

How will the change in status affect the current groundwater management process for the Tahoe Valley South Subbasin?

- As a very low-priority basin, District will no longer be required to;
 - Form a GSA;
 - Prepare a Groundwater Sustainability Plan (GSP) or an Alternative
- As a very low-priority basin, District may choose to;
 - Voluntarily comply and adopt a GSP under SGMA, but not required;
 - Voluntarily comply and adopt an Alternative Plan under SGMA, but not required;
 - Existing Plan (2014 GWMP)
 - Analysis of Basin Conditions
 - Update the existing 2014 GWMP under AB3030 [Water Code §§ 10750.1 (b)]

How will the change in status affect the District's ability to receive funding?

- Proposition 1 Sustainable Groundwater Grant funding administered through DWR: Funding for GSP development and technical or facilitation support services. Funding is directed toward GSAs or member agencies of GSAs and prioritized according to Basin Prioritization ranking; most funding will likely be directed towards critically-overdraft High Priority Basins, High Priority Basins and then Medium Priority Basins; Before we had a chance of this type of funding; with the change in status the opportunity for applying for this type of grant funding may no longer be available.
 - Impact (s): Potential loss of grant funding source for costs associated with the installation of additional groundwater observation wells for the Basin Monitoring Network.
- Proposition 1 Groundwater Cleanup Program Grant funding administered through SWRCB-DFA. Funding to prevent and cleanup contamination of groundwater that serves (or has served) as a source of drinking water. Eligible grant applicants are public agencies, non-profit organizations, public utilities, federally recognized Indian tribes, California Native American Tribes, and mutual water companies (Water Code section 79712(a-b)). Funding is **not** restricted to GSAs.
 - Impact (s): Change in status should not affect approved Prop 1 GCP funding being used to defray costs for the South Y Feasibility Study.

How will the change in status affect the District's ability to implement Groundwater Management within the Tahoe Valley South Subbasin?

- Under SGMA GSAs have financial authority to assess regulatory fees, authority to determine groundwater amounts extracted and enforcement powers to impose civil penalties.
 - GSAs may impose fees, including, but not limited to, permit fees and fees on groundwater extraction or other regulated activity, to fund the costs of a groundwater sustainability program, including, but not limited to, preparation, adoption, and amendment of a groundwater sustainability plan, and investigations, inspections, compliance assistance, enforcement, and program administration, including a prudent reserve [§ 10730]
 - GSAs may make determinations fixing the amount of groundwater production from a groundwater extraction facility [§ 10731]
 - GSAs may impose Civil Penalties to persons who extracts groundwater in excess of an authorized amount [§ 10732]
- Under AB3030 local public agencies acting as a Groundwater Management District (GMD) are also allowed to fix and collect fees and assessments for groundwater management [§ 10754 – 10754.3].
- The District has not yet exercised any regulatory fee authority for development and implementation of the 2014 GWMP

DRAFT QUESTIONS (Handout)

- Statewide Adjustment
- Total priority point calculation
- Other information determined to be relevant
- GSP Alternative assessment
- GSA authority for v. low priority basins
- GSA responsibilities for v. low priority basins