

Freeway Well Planning Project

Proposition 1 Grant # D181251900

Board of Public Utilities Meeting

August 1, 2019



Santa Rosa Water | Our Future in Every Drop



Agenda

1. Project Staff
2. Background
3. Project overview
4. Scope of work & timeline
5. Progress to date
6. Next steps
7. Staying informed
8. Q&A



KEY
PROJECT
STAFF

- **COLIN CLOSE**
Senior Water Resources Planner
Santa Rosa Water
- **JIM CONNELL, PE**
West Yost

Santa Rosa Water Supply Portfolio

- Sonoma Water – 93%
- City Groundwater wells – 7%
- City Recycled water – 1%
- City Water Use Efficiency programs (reduce water demand)
 - Approx 1.5 Billion gals/year



Freeway Well

1304 Cleveland Ave

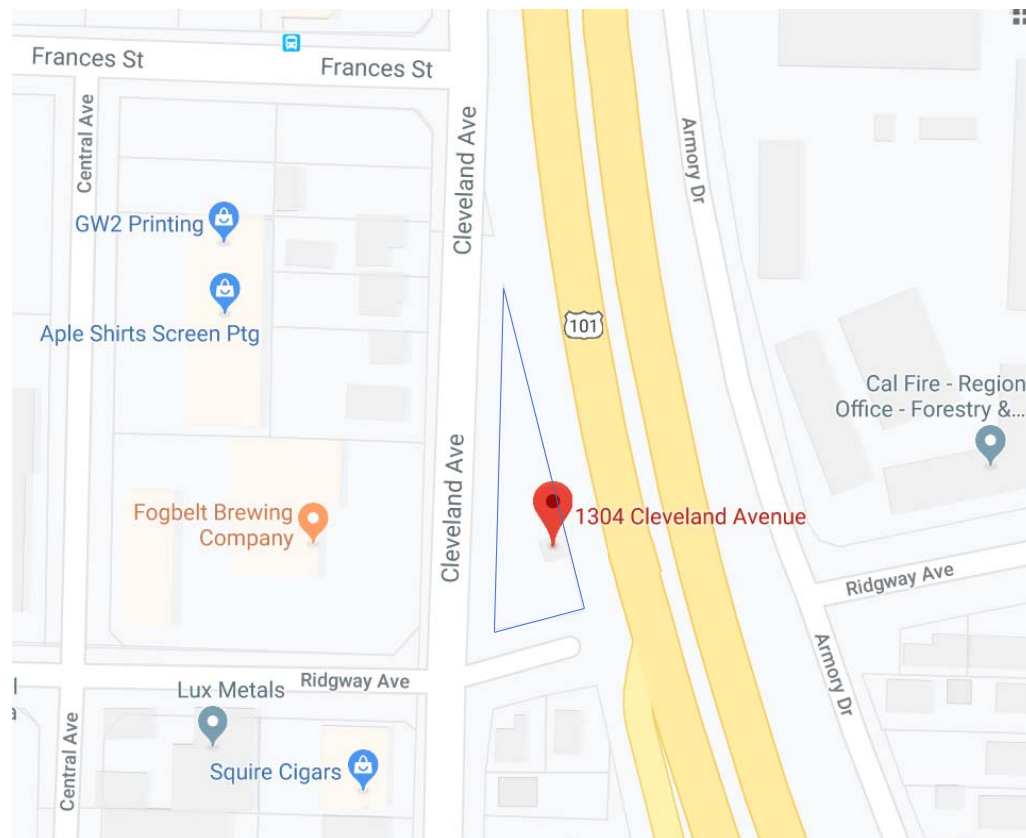
- Built in 1957 (817 feet)
- Very productive (~30 years)

1980s - VOCs discovered

- Routine testing of well
- Contamination from nearby sites

Production halted

- Well taken offline



Documented Releases Near Freeway Well



x 11.00 in

Freeway Well VOCs results 10/4/2013

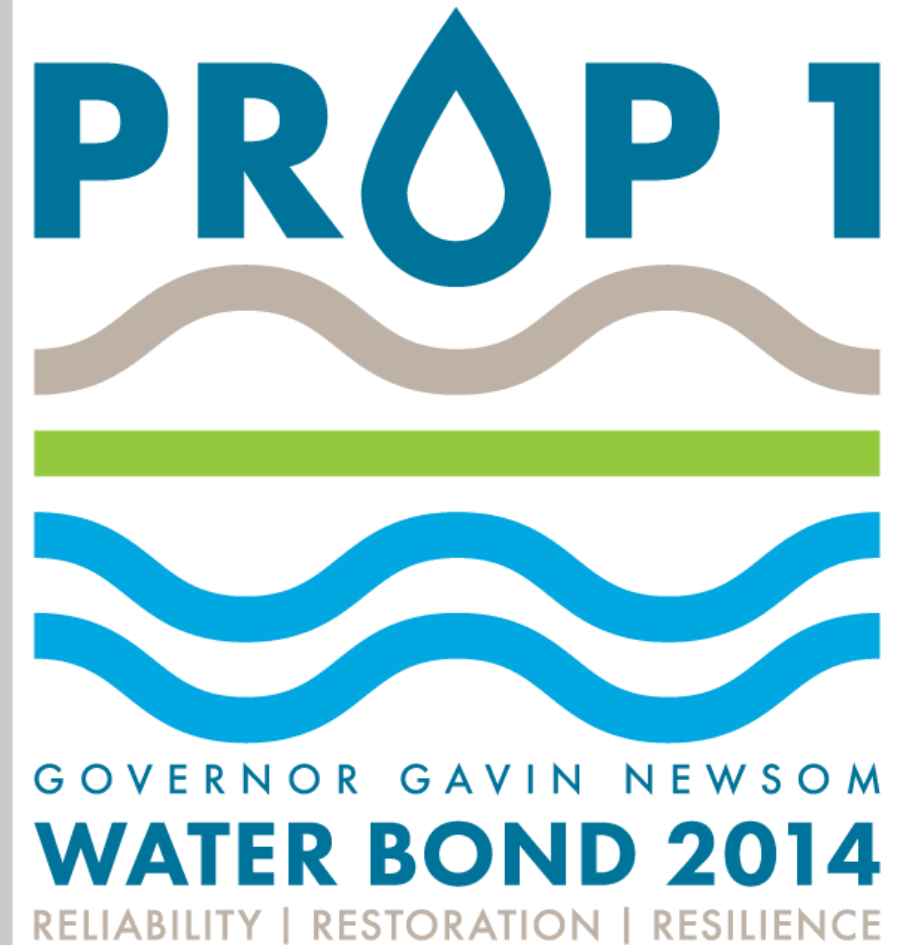
Table 1-1. Groundwater Sample Analytical Results for Freeway Well							
Depth, feet	Sample ID	VOCs, µg/L ^(a)				Chloride, mg/L	TDS, mg/L
		1,1-Dichloroethene ^(b)	Freon - 113	Toluene	Tri-chloroethene ^(b)		
118	FW-118'	3.1	12 ^(c)	ND>0.50	18	14.4	290
178	FW-178'	3.0	12 ^(c)	ND>0.50	17	13.9	260
278	FW-278'	4.1	16 ^(c)	0.67	22	13.8	280
343	FW-343'	3.9	16 ^(c)	0.79	22	13.9	280
414	FW-414'	4.2	17 ^(c)	0.81	24	13.6	280
458	FW-458'	4.2	16 ^(c)	0.90	24	13.6	290
498	FW-498'	3.6	13 ^(c)	0.87	20	14.2	280
590	FW-590'	3.4	11 ^(c)	1.0	19	13.7	280
USEPA MCL		7	-	1,000	5	250 ^(d)	500 ^(d)
CA MCL		6	-	150	5	-	-

VOCs = volatile organic compounds
µg/L = micrograms per liter (parts per billion)
mg/L = milligrams per liter (parts per million)
TDS = total dissolved solids
ND = Not detected at or above the respective reporting limit
USEPA MCL = Maximum Contaminant Levels for Drinking Water (US Environmental Protection Agency, 2009)
CA MCL = Maximum Contaminant Levels for Drinking Water (State of California, 2014)

^(a) All other VOCs not detected at or above the respective reporting limit
^(b) 1,1-Dichloroethene is also referred to as 1,1-Dichloroethylene (1,1-DCE); Trichloroethene is also referred to as Trichloroethylene (TCE) and 1,1,2-Trichloroethylene
^(c) Laboratory qualifier: "Batch LFM/D or MS/D outside acceptance limits. Data is accepted based on passing method required LFB and/or QCS/LCS"
^(d) Secondary MCL: non-enforceable guidelines regarding contaminants that may cause cosmetic effects (such as skin or tooth discoloration) or aesthetic effects (such as taste, odor, or color) in drinking water.

Proposition 1 Groundwater Sustainability Program

- Competitive grant process
- For projects that
 - prevent or cleanup contamination of groundwater and
 - serve (or have served) as a source of drinking water.
- 50% local match required



Project Goals

Establish focused initiative with State

- State Water Board and Regional Water Board
- Division of Drinking Water

More fully characterize site

- Groundwater contamination
- Lithology and hydrology

Determine feasibility of alternatives

- Possible groundwater cleanup
- Groundwater protection

Scope of Work

Records review and data gathering

- Gather info about geology and nearby storage of solvents

Test boring and nested monitoring wells

- Assess geohydrology & vertical distribution of VOCs

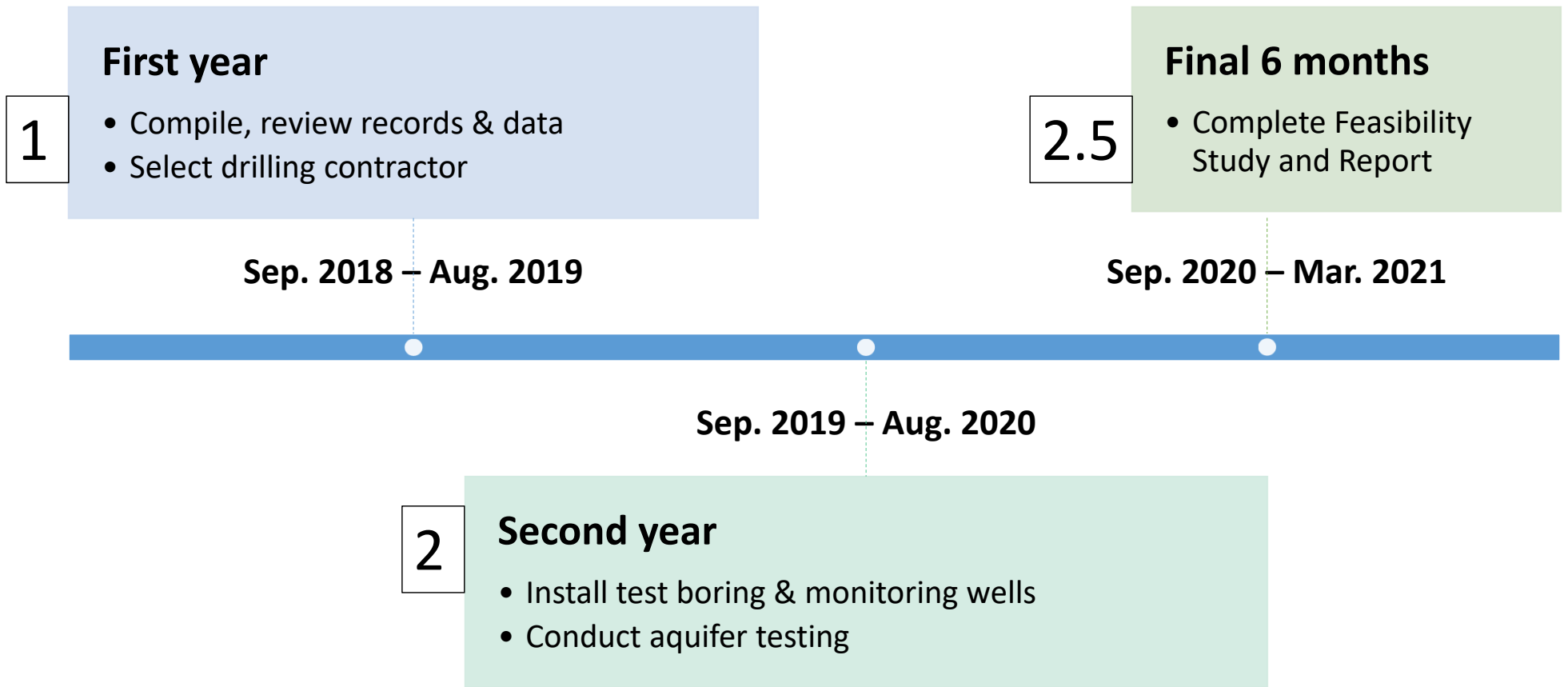
Aquifer pump testing

- Evaluate impacts of pumping

Feasibility Study

- Examine options for groundwater protection and/or remediation

Timeline



Project Status



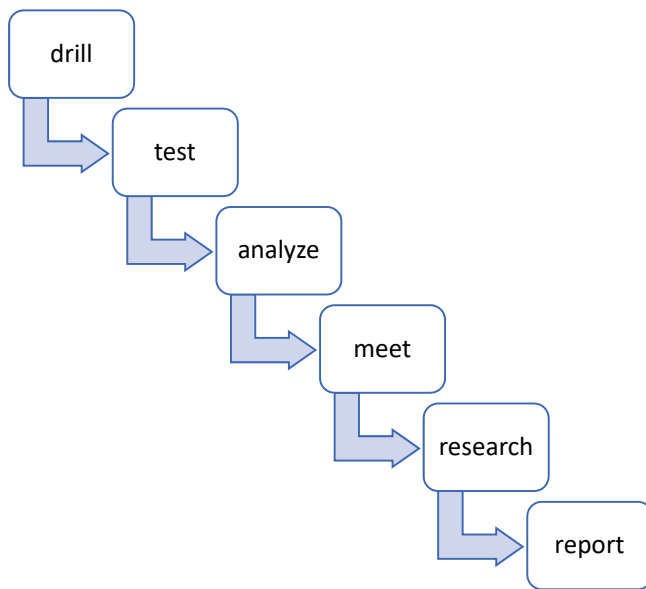
- ✓ Executed grant agreement
- ✓ Completed CEQA compliance
- ✓ Executed contract with West Yost
- ✓ Created Technical Advisor Group (TAC) and held 2 meetings
- ✓ Created Stakeholder Advisory Group (SAG) and held SAG meeting
- ✓ Developed project webpage
- ✓ Public info meeting (today)

Project Status



- ✓ Collected and reviewed records
- ✓ Developed Remedial Investigation Workplan
- ✓ Developed Quality Assurance Plan
- ✓ Developed Monitoring Plan
- ✓ Identified observation wells
- ✓ Developed technical specs for multiple completion monitoring well
- ✓ Soliciting bids from drilling contractors

Next Steps



- Contract negotiations with driller
- Data collection & analysis
- Monitoring well installation
- Water quality sampling
- Aquifer pump testing
- TAC site visits and TAC meetings
- Remedial Investigation Report
- Feasibility Study & Report

Staying Informed

Freeway Well webpage

- Contact info
- Documents
- Timeline

srcity.org/FreewayWell

