

PID 1997: Carley and Peter Springs Wells

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Water Department

December 16, 2021

Project Context

This utility station has two groundwater wells: Carley, and Peter Springs.

Both wells are permitted for emergency water supply.

Major improvements are needed to ensure reliable future operation.



Project Context (cont.)

Station plumbing has deformed due to ground movement, disconnecting the Peter Springs well from the water system.

It is unlikely that this issue can be resolved long-term without rebuilding all the existing systems.



Project Objectives

Ensure that the Carley well is a reliable source of emergency supply

- Solve the soil settlement/expansion issue
- Replace the existing, aged Carley well
- Provide supporting infrastructure to support emergency operation

Project Objectives (cont.)

Re-connect the Peter Springs well as a backup emergency water supply

- Peter Springs well needs to be modified to comply with DDW requirements for emergency drinking water wells

Project Objectives (cont.)

Possible added value items, to be explored during design:

- Can we construct a second access driveway, to Idaho Drive?
- **Can we use these wells to augment water supply in a drought?**



Proposed Scope of Work

Identify the cause of geotechnical issues, and resolve accordingly

Remove:

- Existing station building, generator, pressure tank, and site piping
- Redwood trees
- Existing Carley well (per DDW/County requirements)

Proposed Scope of Work (cont.)

Install:

- A new Carley well, and obtain permit from DDW
- A new treatment system (chlorination)
- New electrical and control systems, with VFD to replace pressure tank
- A new backup generator
- New site fencing, paving, and other various appurtenances

Proposed Schedule

Design Services: January 2022 to November 2023

- Includes engineering services during construction

New Carley well installation: August 2022

New well station construction: May 2023

Other Considerations

9 redwood trees crowd the station building; these will need to be removed for construction.

Coordination with neighbors, incl. Parks and the middle school will be significant.



Recommendation

It is recommended by the Contract Review Subcommittee and the Water Department that the Board of Public Utilities, by motion, approve a Project Work Order under the Master Professional Services Agreement with West Yost & Associates, of Santa Rosa, CA for Professional Engineering Design Services for Carley and Peter Springs Well Rehabilitation, in the amount not to exceed \$905,441.

Questions
