Leete and Carley/Peter Springs Groundwater Wells Update

Board of Public Utilities Meeting

Staff Briefing

October 21, 2021

Andy Allen – Interim Deputy Director TPW Capital Projects Engineering

Well Rehabilitation and Replacement

Two Well Rehabilitation/Replacement Projects

- Leete Well – 3601 Leete Avenue
- Carley & Peter Springs Wells
  - Carley Well – 3499 Idaho Drive
  - Peter Springs Well/Park – 817 Carley Road

Leete Well Rehabilitation

Project Number: 2121

Leete Well Rehabilitation

Project Status: Design

Project Areas (IFAS Charge #'s Labeled)

Water

0   100   200 Feet   City (2020) & County (2018) Aerials shown.
Map Date: 10/18/2021

- Information and features shown on this map are intended for general location use only and may contain errors. Map produced by City of Santa Rosa, Asset Management Division. -

Leete Well Rehabilitation

- Originally Installed – 1953
- Diameter/Depth – 10-inch/323 feet
- Rated Capacity – 240 gpm
- Issue – separation in casing
- Not currently in use

Leete Well Rehabilitation

Current Task – Well Condition Assessment

- Spot Clean Well Screen and Video Survey
- Aquifer Testing
- Water Quality Sampling
- Dynamic Steady State Profiling
- Condition Assessment of Well House

Future Task – Design based on current study

Funding -- FY 2019/20, FY 2021/22 & Future

Current Estimate -- $3.0 Million

Anticipated Completion – FY 2023/24

Carley & Peter Springs

Project Number: 1997

Carley and Peters Springs Well Rehabilitation

Project Status: Design

Project Areas (IFAS Charge #'s Labeled)
▭ Water

N

| 0 | 100 | 200 Feet |

City (2020) & County (2018) Aerials shown.
Map Date: 10/18/2021

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Carley Well Replacement

- Originally Installed – 1954
- Diameter/Depth – 8-inch/208 feet
- Rated Capacity– 700 gpm
- Issues – age, presence of a liner, and ground displacement issues
- Currently used for irrigation

Peter Springs Well Rehabilitation

- Originally Installed – 1923
- Diameter/Depth – 10-inch/160 feet
- Rated Capacity – 500 gpm
- Operational Capacity – 150-200 gpm
- Issues – open bore hole below shallow casing and top of casing in vault below ground
- Currently used for irrigation

Carley & Peter Springs

Previous Evaluation

• Replace Carley Well

• Rehabilitate Peter Springs Well

• Replace Carley Pump House and Appurtenances

Carley & Peter Springs

Current Task – Pre-Design and Design

- Geotechnical Investigation

- Site Design – Well and Building Layout

- Well Construction and Destruction Design – including Plans and Specifications

Funding -- FY 2019/20, FY 2020/21 & Future

Current Estimate -- $3.2 Million

Anticipated Completion – FY 2023/24

Questions?