

Olivehurst Public Utility District



Agenda Item Staff Report

Meeting Date: 03/17/2022

Item description/summary:

Consider looking at the possible purchase and installation of art wall to allow kids to graffiti on it a positive manner at Johnson Park.

On 01/28/2022 Myself and the sewer collection team visited the lift station #14 off Zanes Drives with an outside Vendor, JBI Water, who are vendors and consultants on water, wastewater, and lift station related project. Based on our site visit and analysis, it was determined that we conducted hydrogen sulfide (odors smelled throughout area) regarding concentration levels and what may cause them. On 03/08/2022, Myself and the sewer collection team looked at all sources entering the lift station and deemed manholes coming into lift station 14 (see attached map). It was deemed the highest concentration was the manhole right before the lift station 14. The level were elevated specifically right after lift station 16 kicked on for the force main and within minutes would see increased gases produced and stirring within the manhole and for a short period of time releasing increased levels of hydrogen sulfides. With this in mind, OPUD notified JBI Waters with the results and current the District and JBI Waters are working out solution for best approach for moving forward. For the time being, OPUD is looking at doing a internal pilot study of different options while waiting for JBI waters to come up with a solution. OPUD is looking at the two following options

- 1.) Decrease PUMP rate from lift station 15 & 16 to reduce volume and velocity coming into the force main which would reduce Hydrogen Sulfides problem.
- 2.) Cover the overflowing cascade force main to control gas levels which potentially could reduce hydrogen sulfides gasing issue.

Fiscal Analysis:

n/a

Employee Feedback

n/a

Sample Motion:

Advise staff to continue weighting options and implementing option to further analyze best solutions for reducing hydrogen sulfide concentrations.

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EXHIBIT A – LIFT STATION 14 HYDROGEN SULFIDE RESULTS

