



Primary Clarifier and DAF Clarifier Rehabilitation Project (CIP 16712)





Background

HR
Technical Memorandum
Date: Friday, January 20, 2018
To: NapaSan Board of Directors
From: [Redacted]
Subject: Condition Assessment Technical Memorandum - FWA

1. Purpose
The purpose of this technical memorandum is to provide an assessment and evaluation of the condition of the primary clarifiers and dissolved air flotation (DAF) clarifier at the NapaSan Wastewater Treatment Plant (WWTP). The assessment was conducted in accordance with the requirements of the San Francisco Public Utilities Commission (SFPUC) Condition Assessment Program (CAP) for Wastewater Treatment Plants (WWTPs). The assessment was conducted from January 10, 2017, to January 12, 2017. The assessment was conducted by [Redacted] and [Redacted].

2. Introduction
The DAF clarifier and primary clarifiers are located in the existing 100,000 gpd DAF and primary clarifier No. 1 and 2 at the NapaSan WWTP. The DAF clarifier and primary clarifiers are located in the existing 100,000 gpd DAF and primary clarifier No. 1 and 2 at the NapaSan WWTP. The DAF clarifier and primary clarifiers are located in the existing 100,000 gpd DAF and primary clarifier No. 1 and 2 at the NapaSan WWTP. The DAF clarifier and primary clarifiers are located in the existing 100,000 gpd DAF and primary clarifier No. 1 and 2 at the NapaSan WWTP.

2. Record Review
The records and other information of the assets included in this condition assessment. The records and other information of the assets included in this condition assessment. The records and other information of the assets included in this condition assessment. The records and other information of the assets included in this condition assessment.

2.1 Dissolved Air Flotation Clarifier
The DAF clarifier is a dissolved air flotation clarifier. The DAF clarifier is a dissolved air flotation clarifier. The DAF clarifier is a dissolved air flotation clarifier. The DAF clarifier is a dissolved air flotation clarifier.

2018

NAPA SANITATION DISTRICT
PRIMARY CLARIFIERS
CONDITION ASSESSMENT DRAFT REPORT

DRAFT

November 10, 2015

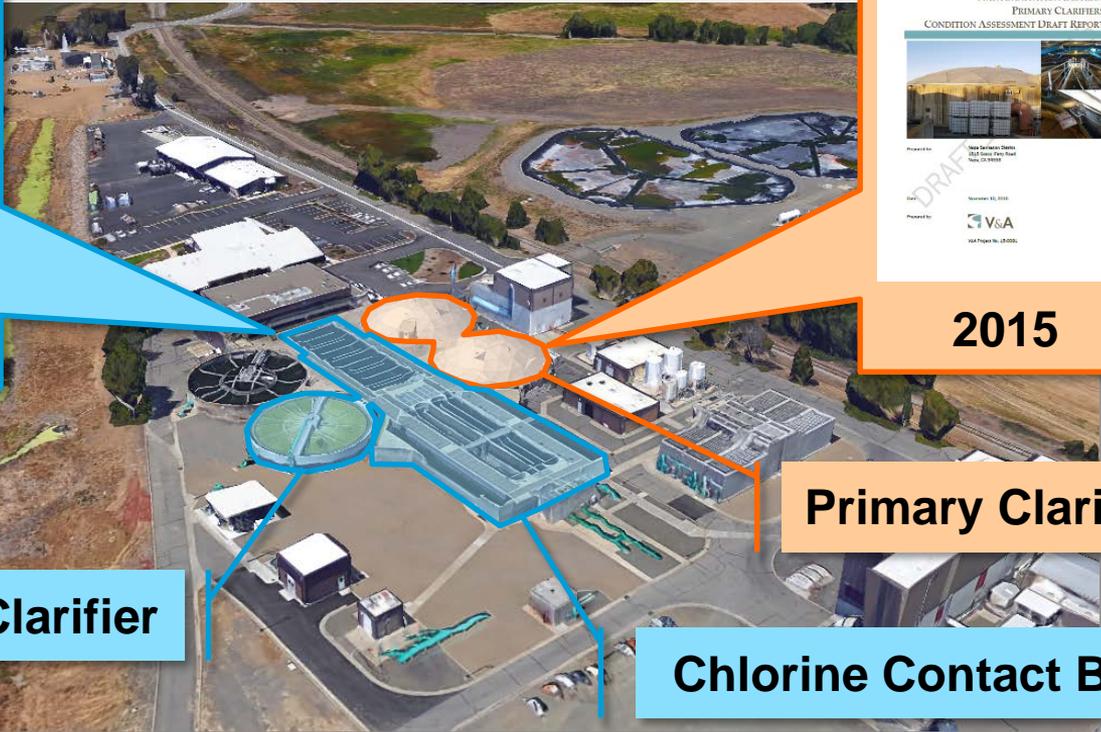
Presented by: V&A
V&A
V&A Project No. 15005

2015

DAF Clarifier

Primary Clarifiers

Chlorine Contact Basins



Condition Assessment Findings

Primary Clarifiers



Concrete coating



Mechanical components

Condition Assessment Findings

DAF Clarifier



Mechanical components



Rehabilitation Priorities

1. Primary Clarifiers

- Risks of structural damage to steel mechanical components
- Corrosive environment

2. DAF Clarifier

- Risk of deterioration of steel mechanical components – increased cost of repair



Project Overview

Engineer's Estimate: **\$1,200,000**

General Project Scope:

- Primary Clarifiers
 - Repair and replace deteriorated mechanical components
 - Remove and replace protective coatings on mechanical components (~15,000 SF)
- DAF Clarifier
 - Remove and replace protective coatings on mechanical components (~6,000 SF)



Anticipated Schedule

Milestone	Date
Notice Inviting Bids	October 2019
Bid Opening	November 2019
Award Construction	December 2019
Notice to Proceed	January 2020
Substantial Completion	November 2020



Recommendation

Approve Project, concur with staff's CEQA Determination, and authorize the General Manager to issue Notice Inviting Bids for the Primary Clarifier and DAF Clarifier Rehabilitation Project (CIP 16712).