

SACHEEN LAKE WATER AND SEWER DISTRICT

Wastewater Collection System Emergency Response Plan

Prepared By

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INTRODUCTION

System Description

The Sacheen Lake Water and Sewer District wastewater collection system consists of 1.25" diameter HDPE pressure sewer service lines and 1.5", 2", 3", 4", 6", and 8" diameter HDPE pressure sewer collection mains. The 1.25" diameter service lines connect the residential wastewater pump stations at each lot to the larger collection mains. The collection mains transport the residential wastewater to the main lift station located near the intersection of Fertile Valley Road and Highway 211. The main lift station then pumps the wastewater to the lagoon treatment plant located on Rocky Gorge Road. The collection mains have gate valves located along their routes at a maximum of every 1,000'. Many of the valves are located near intersections of collection mains, clean-outs, and air/vacuum release valves. These valves allow sections of the collection mains to be isolated from the rest of the system for maintenance, leak detection, and repairs.

EMERGENCY RESPONSE PLAN

Plan Description

The Sacheen Lake Water and Sewer District's wastewater collection system emergency response plan outlines the steps to be taken should a leak be detected in the collection system. The emergency plan steps are as follows:

1. Organize effort to excavate area of suspected leak and expose broken piping, begin exposing broken pipe.
2. Use attached overall system map to locate nearest valves upstream and downstream of leak. Close the closest gate valves upstream and down stream of leak location.
3. Notify all system users located upstream of leak that the no sewer service will be provided until the leak has been repaired.
4. Shut off power to all pumpstations located upstream of leak to prevent discharge into the system.
5. Secure the services of a sewage pumping contractor to monitor the liquid levels in all pumpstations upstream of the leak and remove pumpstation contents if any pumpstations become full.
6. Repair leak using new length of HDPE pipe, Romac 501 couplers, and stainless steel stiffeners
7. Re-energize several pumps located upstream of repair and operate simultaneously to check repair for leaks
8. If repair is leaking, correct the leak and repeat step 8. If repair is leak free, backfill the excavation with sand pipe bedding and proper compaction applying lime to all contaminated soil
9. Re-energize power to all pumpstations located upstream of repair
10. Test all groundwater wells within a 200' radius for Nitrate and Coliform bacteria contamination within 24 hours of leak repair

11. Restore disturbed areas to the condition as found prior to leak.

SPARE PARTS TO BE STOCKED BY DISTRICT FOR EMERGENCY REPAIR
NEEDS

1. Romac 501 couplers and stainless steel inserts, two sets each for 4", 6", and 8" HDPE 200 psi DR11 ductile iron size mainlines
2. Stainless steel dual end pack joint compression coupler with stainless steel inserts, two sets each for 1.25" and 1.5" 200 psi DR11 iron pipe size service lines 2" and 3" 200 psi DR11 iron pipe size HDPE main lines. The 1.25", 1.5", 2", and 3" lines are outside diameter controlled pipes, couplers and fittings shall be sized accordingly.
3. 20' of 200 psi DR11 ductile iron pipe size HDPE pipe in 4", 6", and 8" diameters
4. 50' of 200 psi DR11 iron pipe size HDPE pipe in 1.25", 1.5", 2", and 3" diameters
5. Three each 50 pound bags of lime
6. Maintain a list of three septic pumping contractors to be filed with this plan
 - a. Elk Septic
Elk, WA – 509-220-5346
 - b. Royal Flush Septic Service,
Newport, WA – 509-447-2264
 - c. Drains Plus Rooter Service –
Sandpoint, ID – 208-263-8567
Athol, ID – 208-683-4217
7. Maintain a list of three excavator contractors to be filed with this plan
 - a. Leo's Compact Excavating
Contact: Leo Robinson
Newport, WA - 509-447-3037
 - b. Chitwood Enterprises
Contact: Clarence Chitwood
Cusick, WA Shop - 509-445-1784,
Cell – 509-939-4882
 - c. Earthworks Northwest
Contact: Randy McDougall
Sandpoint, ID – 208-263-8700