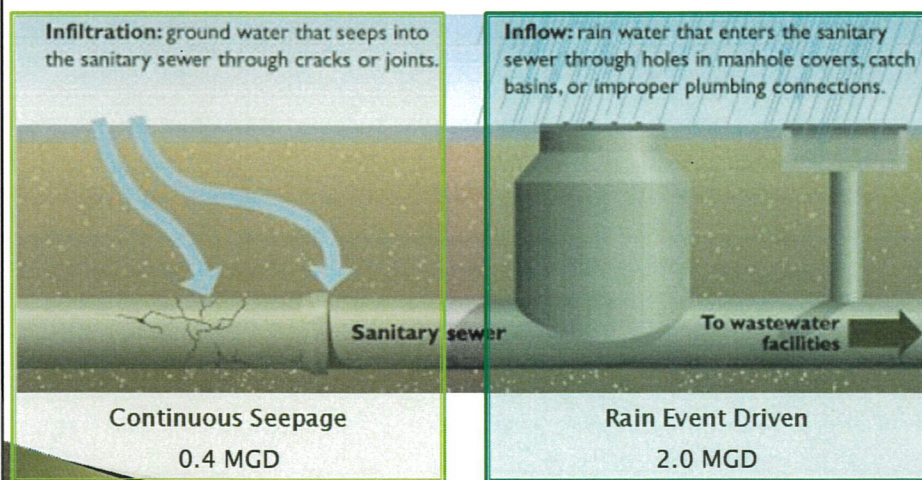


EXISTING COLLECTION SYSTEM

- ▶ Gravity Pipelines - 135 miles
 - Minor Mains 6" - 8"
 - Collectors 10" - 15"
 - Interceptors 18" - 30"
 - Outfalls 36"
- ▶ Manholes - 2,700+
- ▶ Lift Stations - 12
 - Pumping Capacity - 50 to 1,800 gpm
- ▶ Force Mains (sewage pumped uphill to a gravity pipeline)
 - 4" - 12" diameter

WASTEWATER FLOW DATA I & I



EXISTING **PEAK** FLOW SUMMARY

► Existing Peak Flow Summary

◦ Existing Development	4.4 MGD
◦ Infiltration	0.4 MGD
◦ Inflow	<u>2.0 MGD</u>
Total	6.8 MGD
Nestle	<u>0.7 MGD</u>
	7.5 MGD



9.2 MGD –
Current WRF
Peak Capacity

GROWTH PROJECTIONS

► Projected **Peak** Hydraulic Loadings (MGD)

Planning Period	Peak Hydraulic Loading*
Existing Conditions	6.8
2038	9.3
2060	11.0

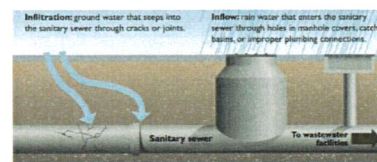
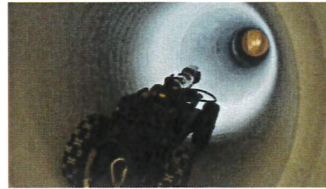
*Including infiltration (0.4 MGD) and inflow (2.0 MGD).

Above numbers do **NOT** include Nestle flows at 0.7 MGD

Current WRF **Peak** Capacity 9.2 MGD

MASTER PLAN RECOMMENDATIONS

- ▶ Continue Cleaning & Inspection Program
- ▶ Continue in the State's "Utah Sewer Management Program"
- ▶ Eliminate Inflow & Infiltration
- ▶ Establish Sinking Funds for Future Projects

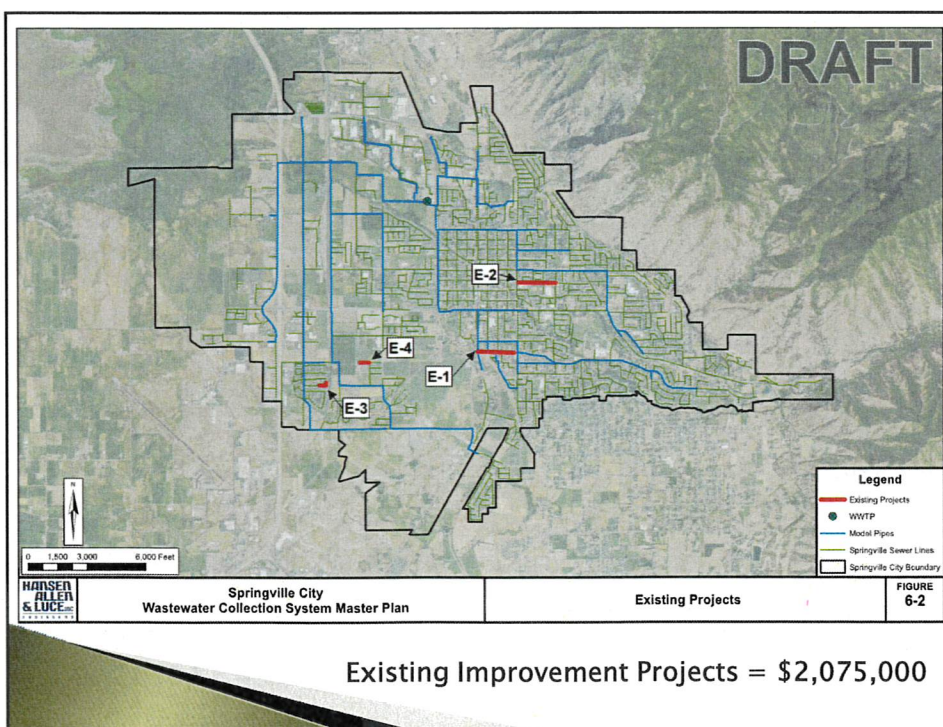


EXISTING IMPROVEMENT PROJECTS

TABLE 8-1 EXISTING IMPROVEMENT PROJECT COST ESTIMATES

PROJECT ID	DESCRIPTION	COST ¹
E-1	Remove and upgrade existing 8" diameter gravity line to a 1,900 ft 12" gravity line.	\$ 870,000
E-2	Replace 1,900 ft of existing 8" diameter gravity line. Make connection with 4 way connection to be able to divert flow as needed for maintenance.	\$ 795,000
E-3	Replace 500 ft of existing 8" diameter gravity line.	\$ 210,000
E-4	Install 470 ft of new 8" diameter gravity line.	\$ 200,000
TOTAL		\$2,075,000

¹ All costs include 35% for engineering, administrative costs, and contingencies. Costs are shown in 2019 dollars.



2038 IMPROVEMENT PROJECTS

TABLE 8-2 FUTURE IMPROVEMENT PROJECT COST ESTIMATES

PROJECT ID	DESCRIPTION	COST ¹
F-1 (From SSMH01731 to SSMH00308)	Install 3,300 ft of parallel 15" diameter gravity line next to existing 15" diameter gravity line from SSMH01731 to SSMH00308. Bore 150 ft under canal. Bore 230 ft under Interstate 15.	\$2,365,000
F-2 (SSP01262)	Remove and upgrade existing 10" diameter gravity line to a 400 ft 15" diameter gravity line.	\$ 210,000
F-3 (SSP01356)	Remove and upgrade existing 8" gravity line to a 400 ft 12" diameter gravity line.	\$ 190,000
F-4 (N/A)	Install 4,500 ft of 10" diameter gravity line to connect new developments to sewer collection system. Bore 60 ft under canal.	\$2,085,000
F-5 (N/A)	Install 2,700 ft of 10" diameter gravity line to connect new developments to sewer collection system.	\$1,205,000
F-6 (1500 W)	Install additional 1,500 gpm pump to increase pump capacity to 3,000 gpm and maintain one redundant pump. Install 6,800 ft of 16" diameter force main pipe from lift station to WWTP.	\$1,015,000
TOTAL		\$7,070,000

¹ All costs include 35% for engineering, administrative costs, and contingencies. Costs are shown in 2019 dollars.

