



Saddle Creek Retention Treatment Basin

Public Involvement Meeting
August 22, 2013

CSO!
Clean Solutions for Omaha

MEETING AGENDA

Welcome

Ann Pedersen

CSO Overview

Linda Lovgren

Project Summary

Dave White

Project Schedule

Dave White

Q & A

All

Challenges Facing Omaha

- Meeting the increased requirements of the federal Clean Water Act
- Balancing the following needs:
 - Regulatory compliance
 - Economic affordability
 - Community acceptance

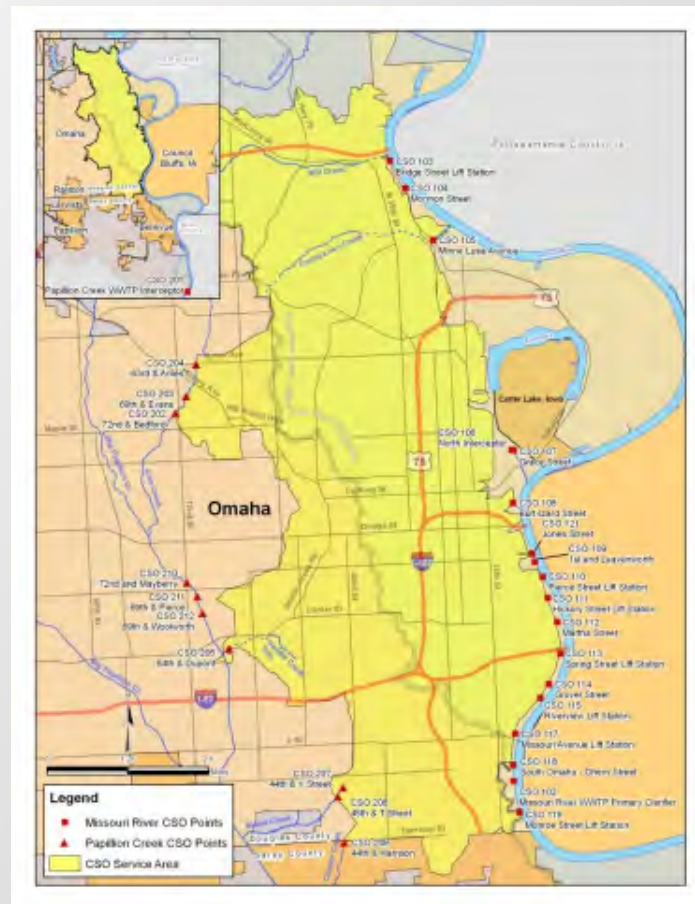


CSO Consent Order Timeline



Omaha's Regional Sewer System

- **1,950 miles of sewers**
 - Eastern half combined
 - Western half separate
- **43 sq. mi combined sewer area**
 - 28,000 acres
 - 6,200 sq. blocks
- **29 CSO outfalls**
 - 10 to Papio Creek
 - 19 to Missouri River
 - 3 eliminated



Omaha's Regional Sewer System

- Two regional treatment plants
- 10 wholesale users
- 275 square mile drainage area
- 600,000 service population



Program Benefits

- Reduce overflows of raw sewage to our streams; improve water quality
- Continue our efforts to eliminate sewer backups into basements
- Replace aging sewer, gas, water and street infrastructure



Program Benefits

- Integrate infrastructure upgrades with continued redevelopment
- Improve drainage and reduce flooding



Five Major Elements of Final Long Term Control Plan



Targeted Sewer Separation Projects



Two High-Rate Treatment Facilities



One Deep Conveyance Sewer

Five Major Elements of Final Long Term Control Plan



Two Underground Storage Tanks



Deep Tunnel

- Length: 5.4 miles
- Diameter: 17 feet
- Depth: 170 feet
- Five (5) drop shafts

Green Solutions

Green solutions have multiple benefits:

- Enhance the project aesthetics
- Reduce wet weather impact on the system
- Reduce costs
- Provide neighborhood benefits





CSO Program Costs



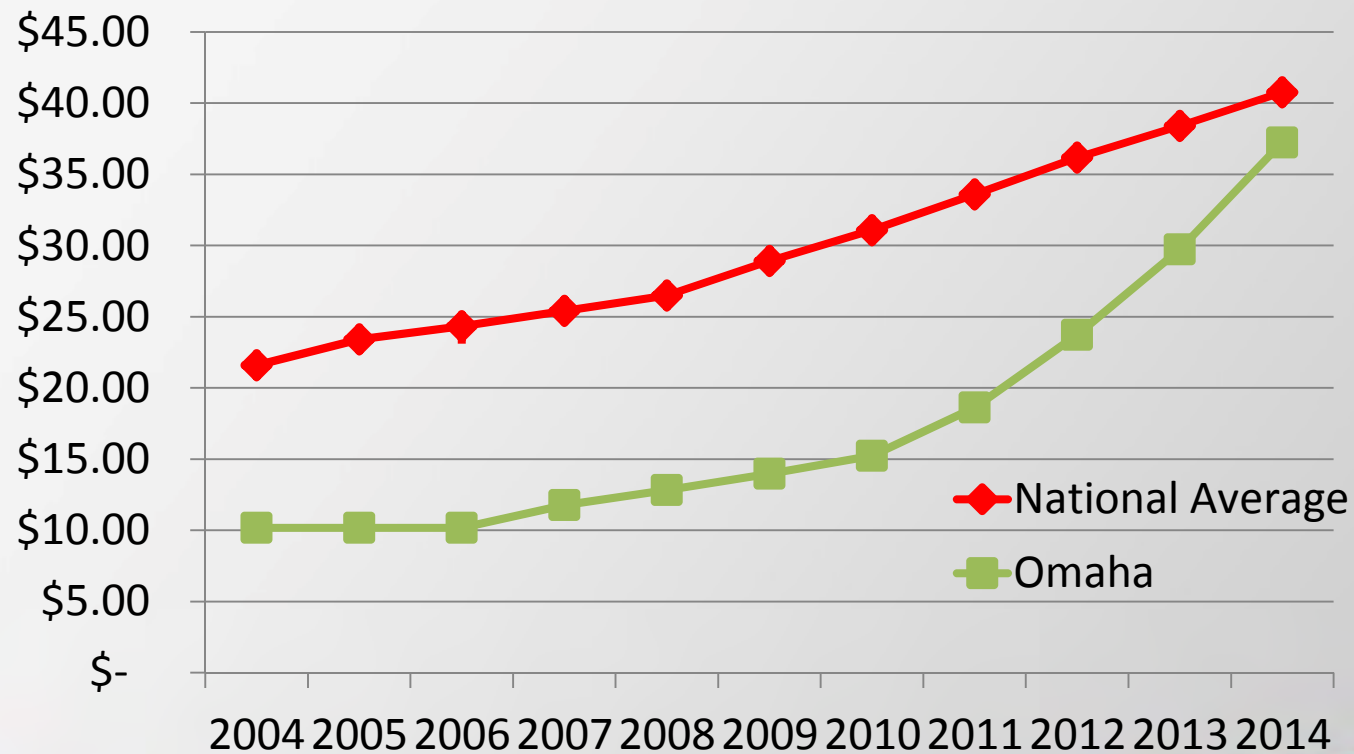
Program Costs (2009 Dollars)

Project Category	Program Cost
Deep Tunnel Project (Proposed)	\$ 442,082,000
Minne Lusa Stormwater Collector Projects	\$ 112,750,000
High Rate Treatment Projects	\$ 126,326,000
South Interceptor Force Main Project	\$ 77,249,000
MRWWTP Improvements	\$ 90,934,000
Lift Station Projects	\$ 131,196,000
Storage Structure Projects	\$ 30,878,000
Sewer Separation Projects	\$ 614,361,000
Miscellaneous Projects	\$ 36,448,000
TOTAL	\$ 1,662,224,000

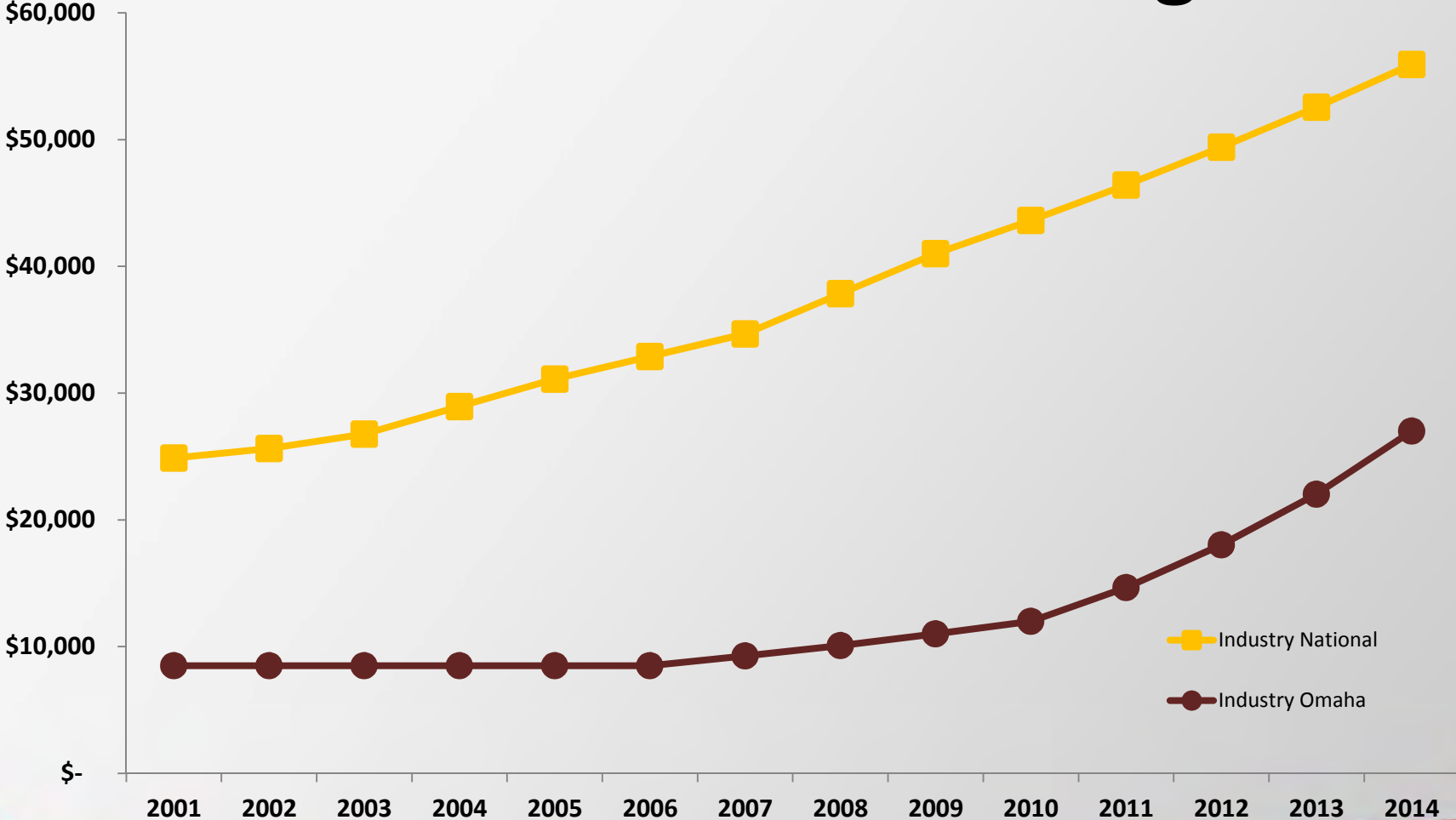
Note: Estimated Total Cost in 2012 dollars ~\$2B

Paying For The Program

Financed with Bonds
Funded by Sewer Fees



Omaha Versus National Industrial Average



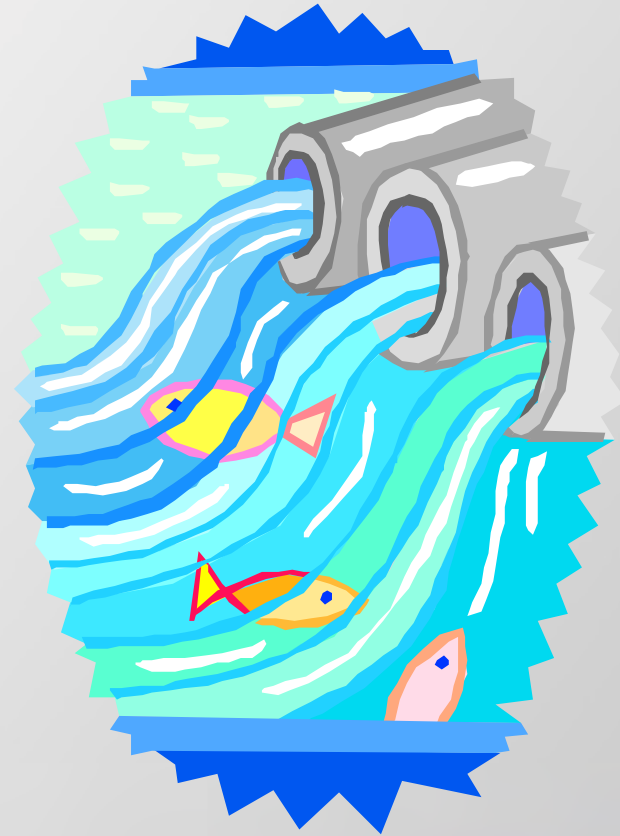


Saddle Creek Retention Treatment Basin

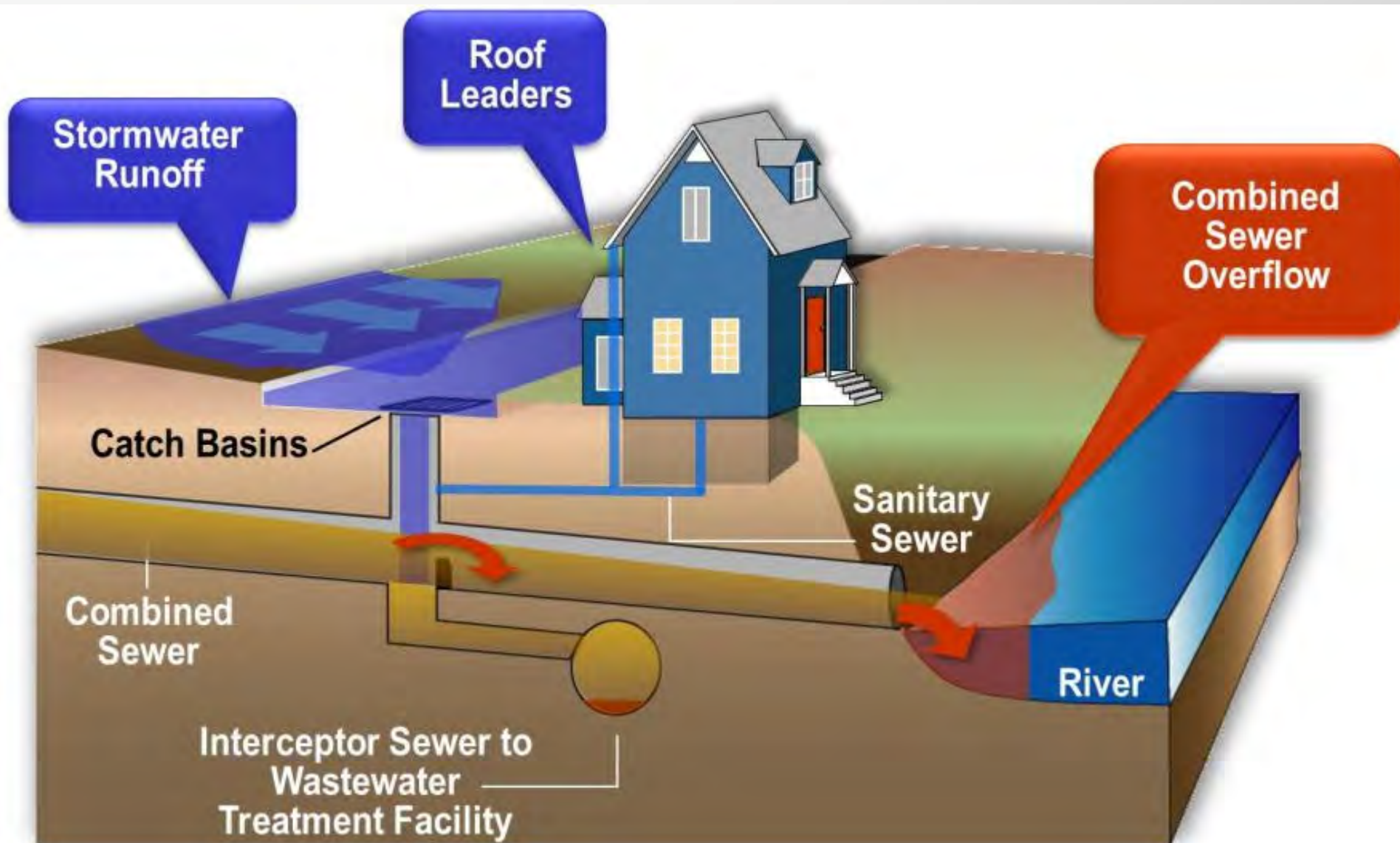
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Purpose of the Project

Treat and reduce the volume of combined stormwater and sewage entering the Little Papillion Creek



Sewage and rainwater are currently mixed together

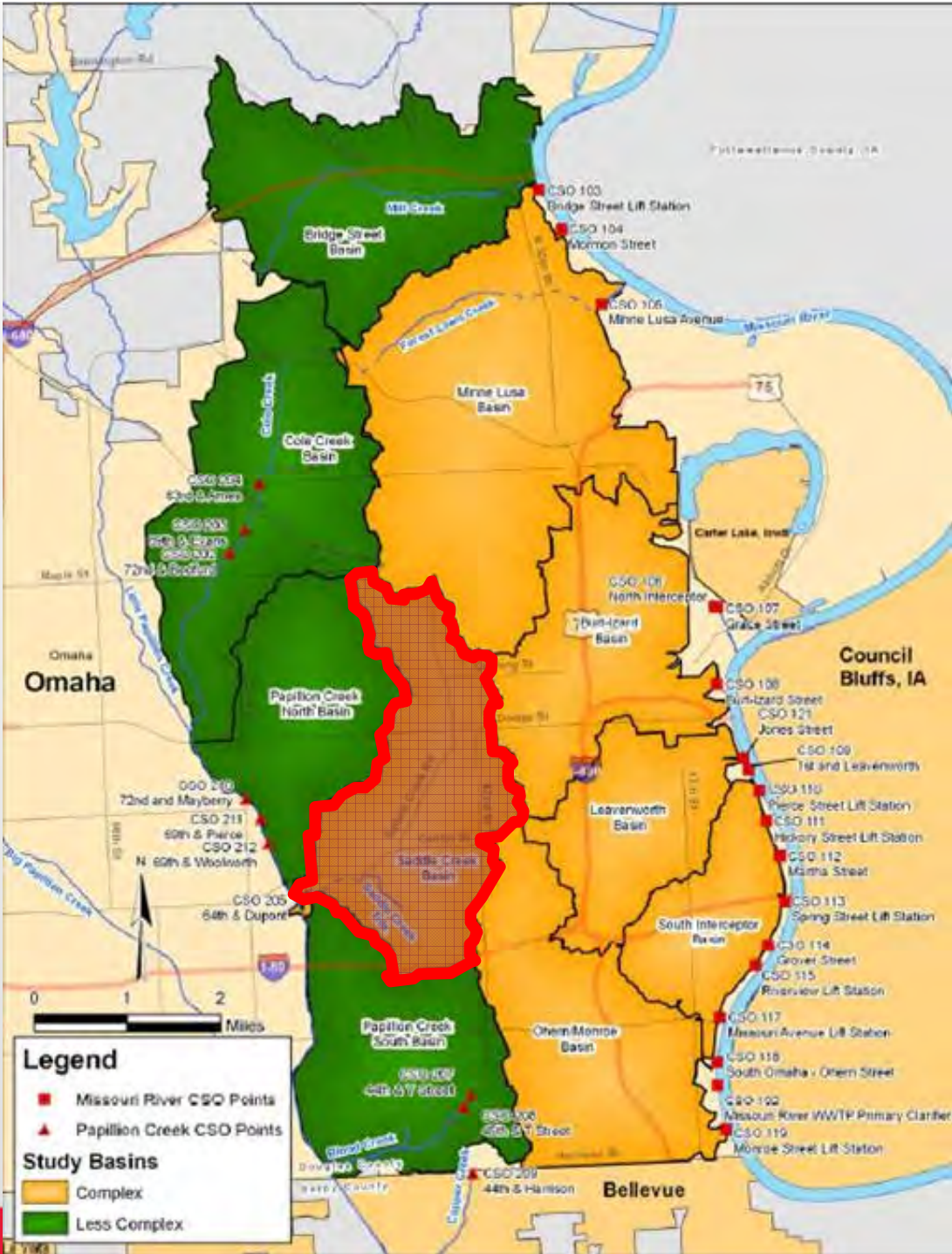


Project Goals

- Improve water quality and meet EPA requirements
- Reduce odors
- Minimize disruption to businesses and residents
- Integrate green and sustainable solutions



Saddle Creek Watershed



Existing Site





Project Overview

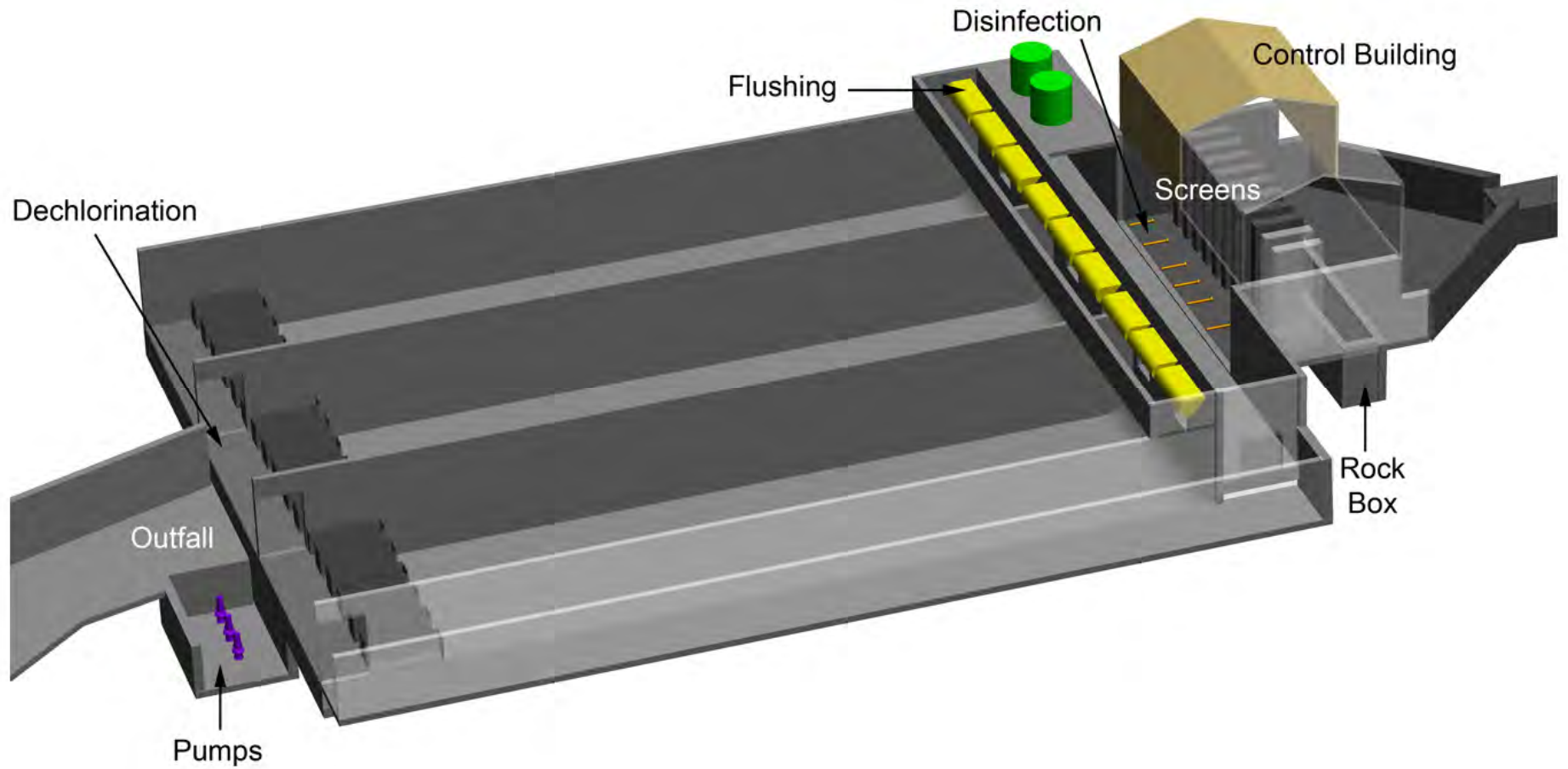
- Overflows occur on average between 50 and 60 days in most years
- As little as 0.10th inch of rain can cause an overflow

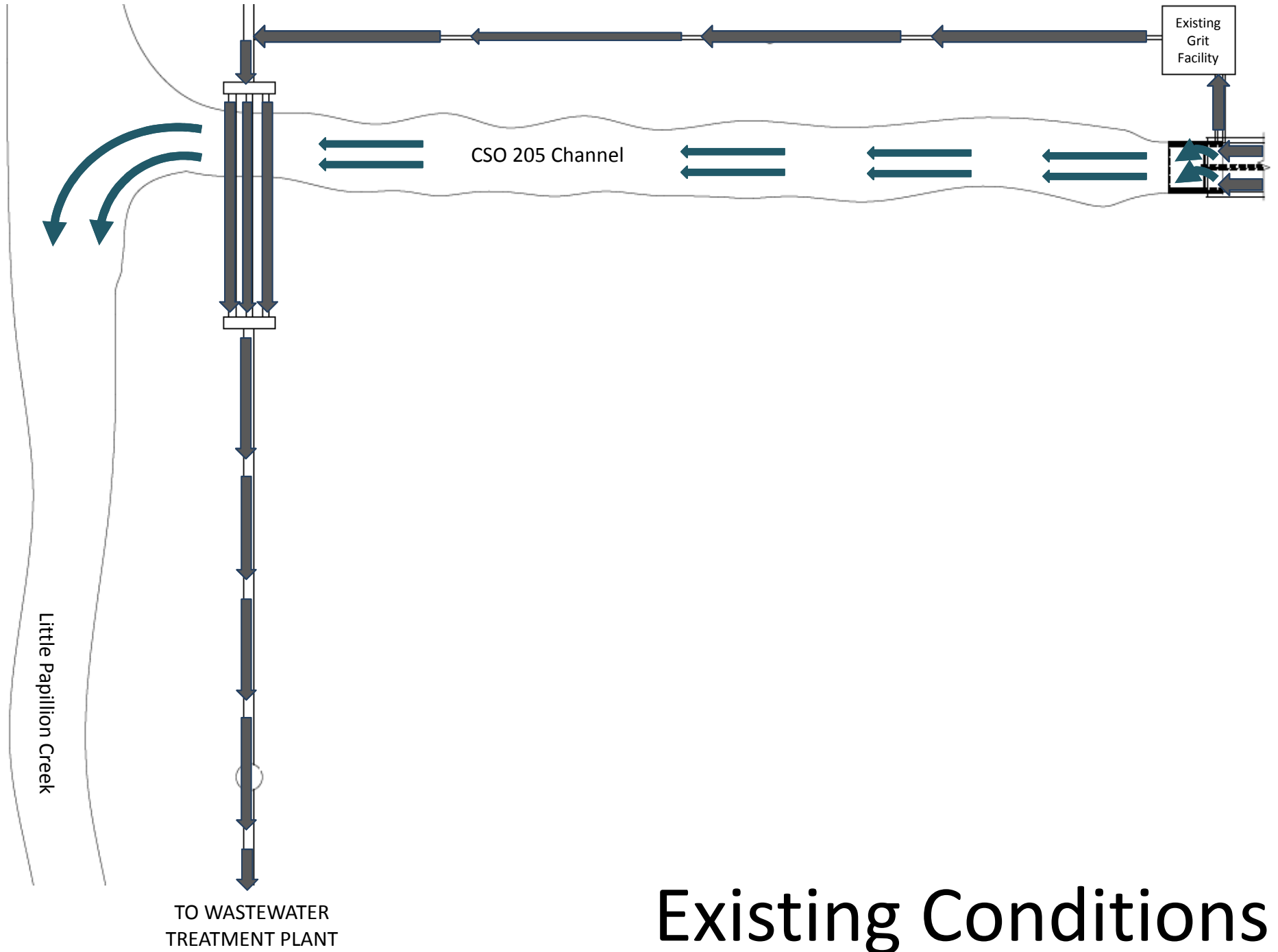


Overflow

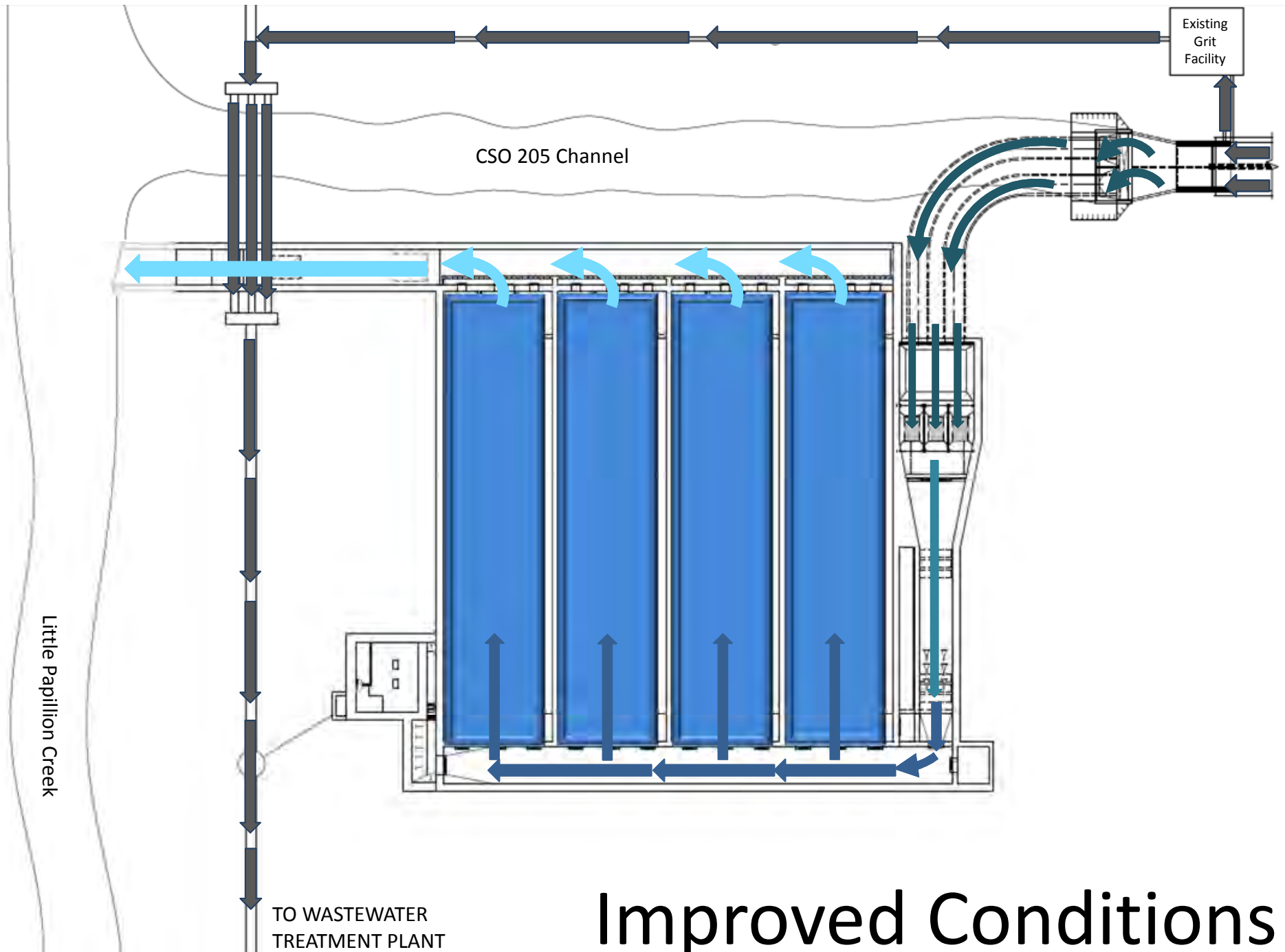


What is an RTB?



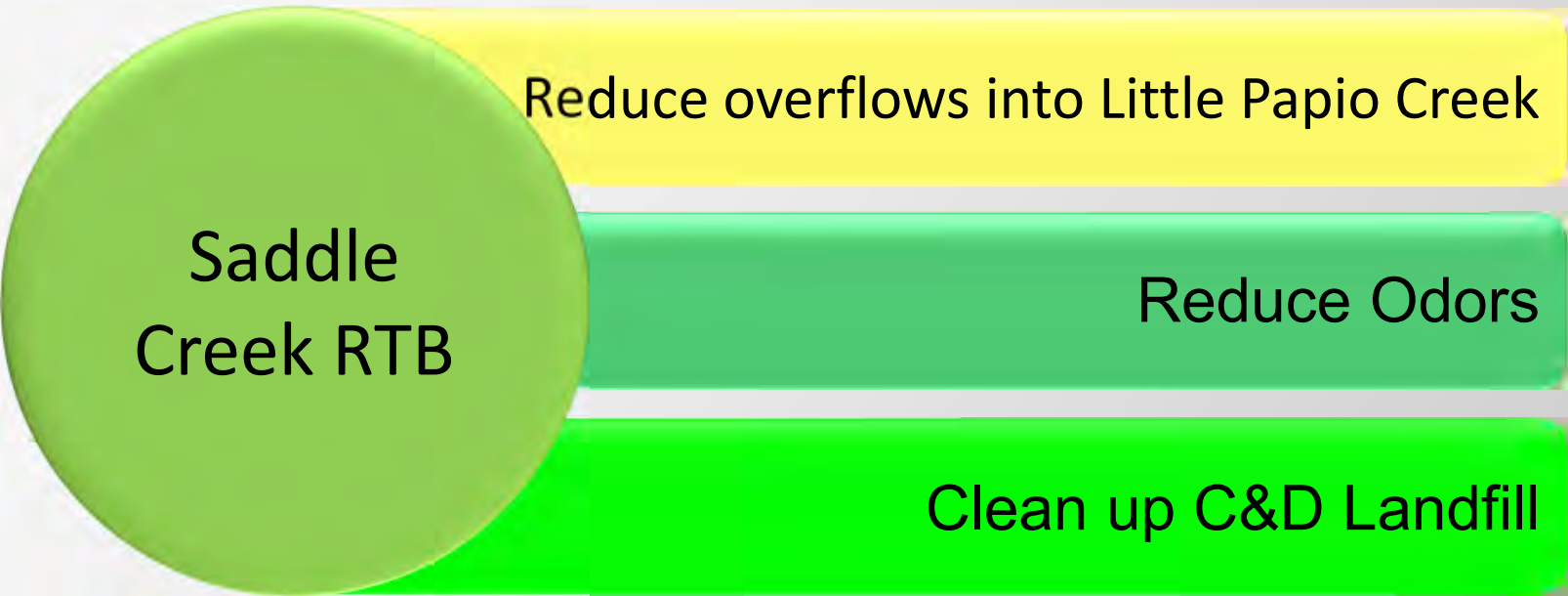


Existing Conditions

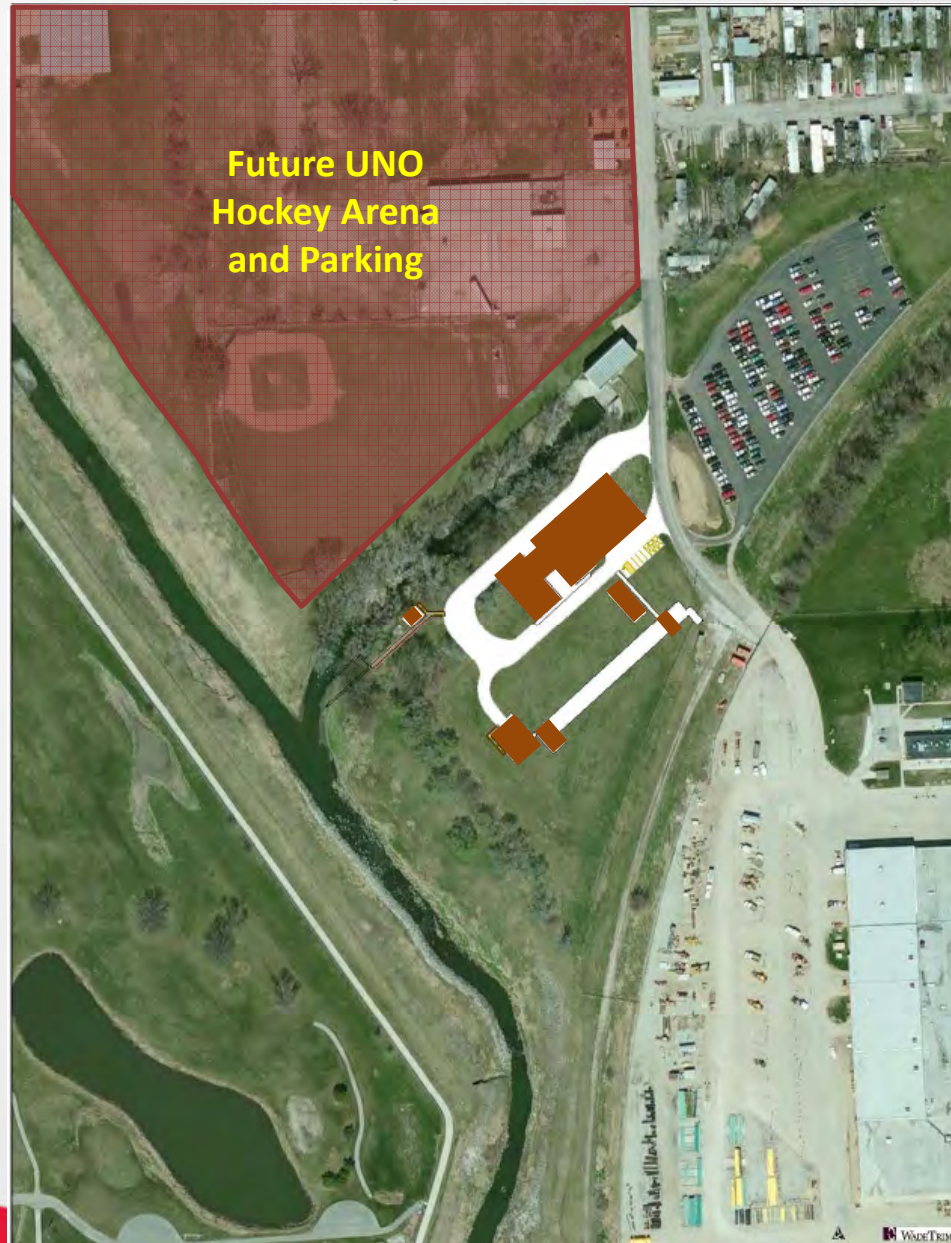


Improved Conditions

Community Enhancements



Concept Site Plan



Concept Building – View From the North



Concept Building – View From the Southwest



Schedule

Engineers Working on Design

Engineers Complete Plans (Fall 2014)

Start Construction (Spring 2015)

Construction Ends (Fall 2018)



Public Meetings

For More Information

CSO Hotline

1-402-341-0235

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Questions?