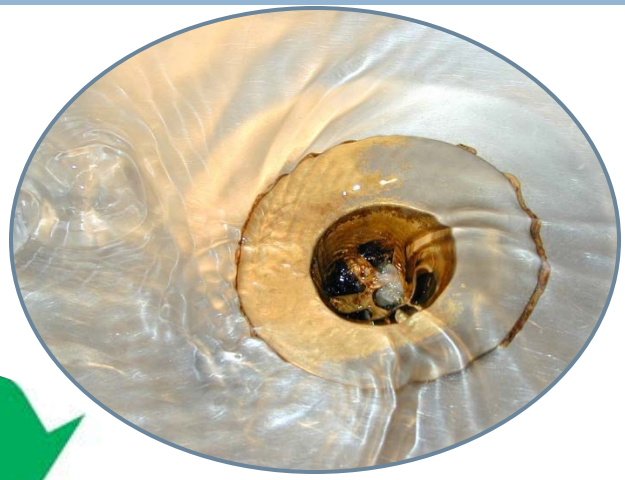
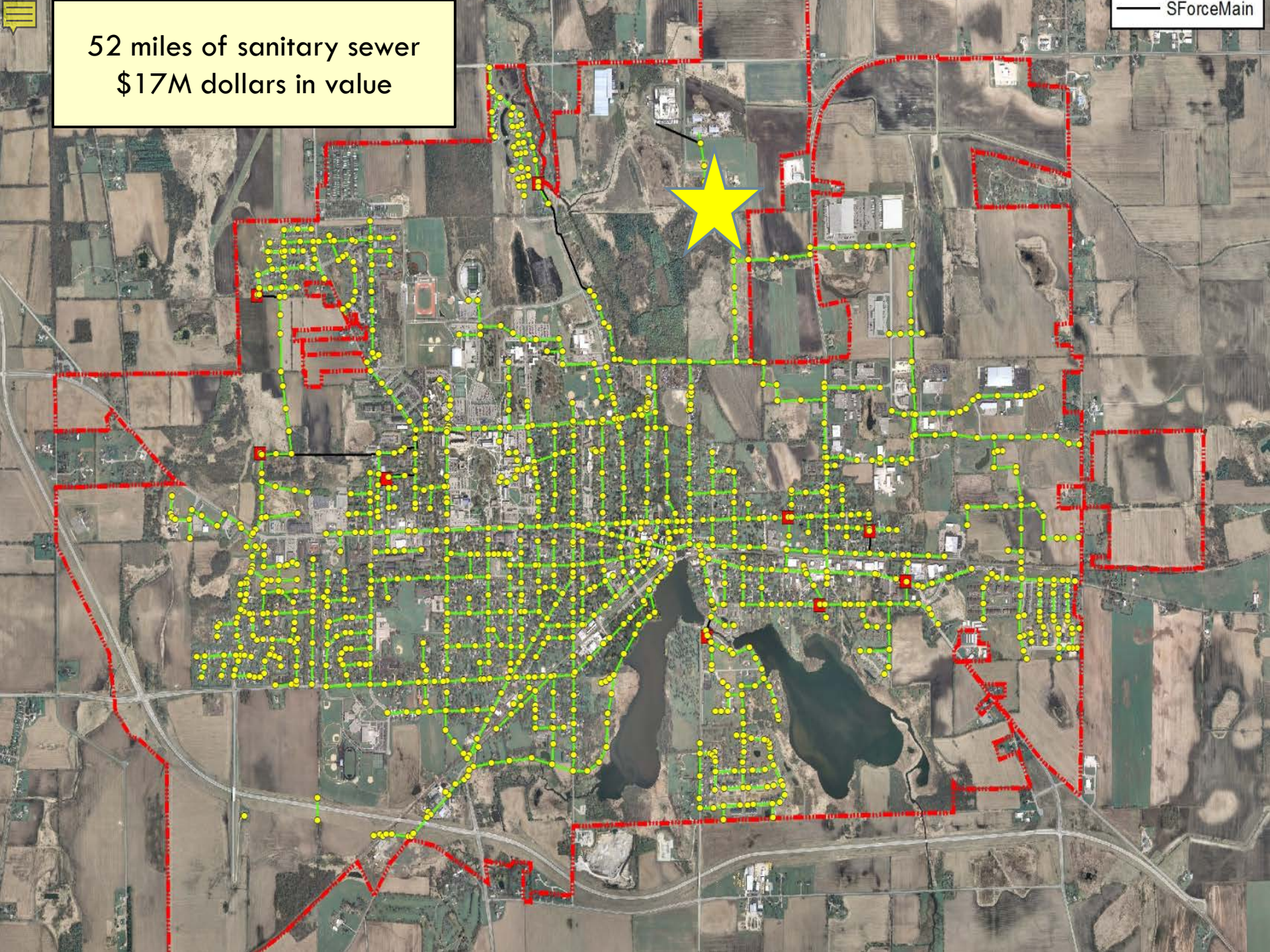
CITY OF WHITEWATER WASTEWATER UTILITY

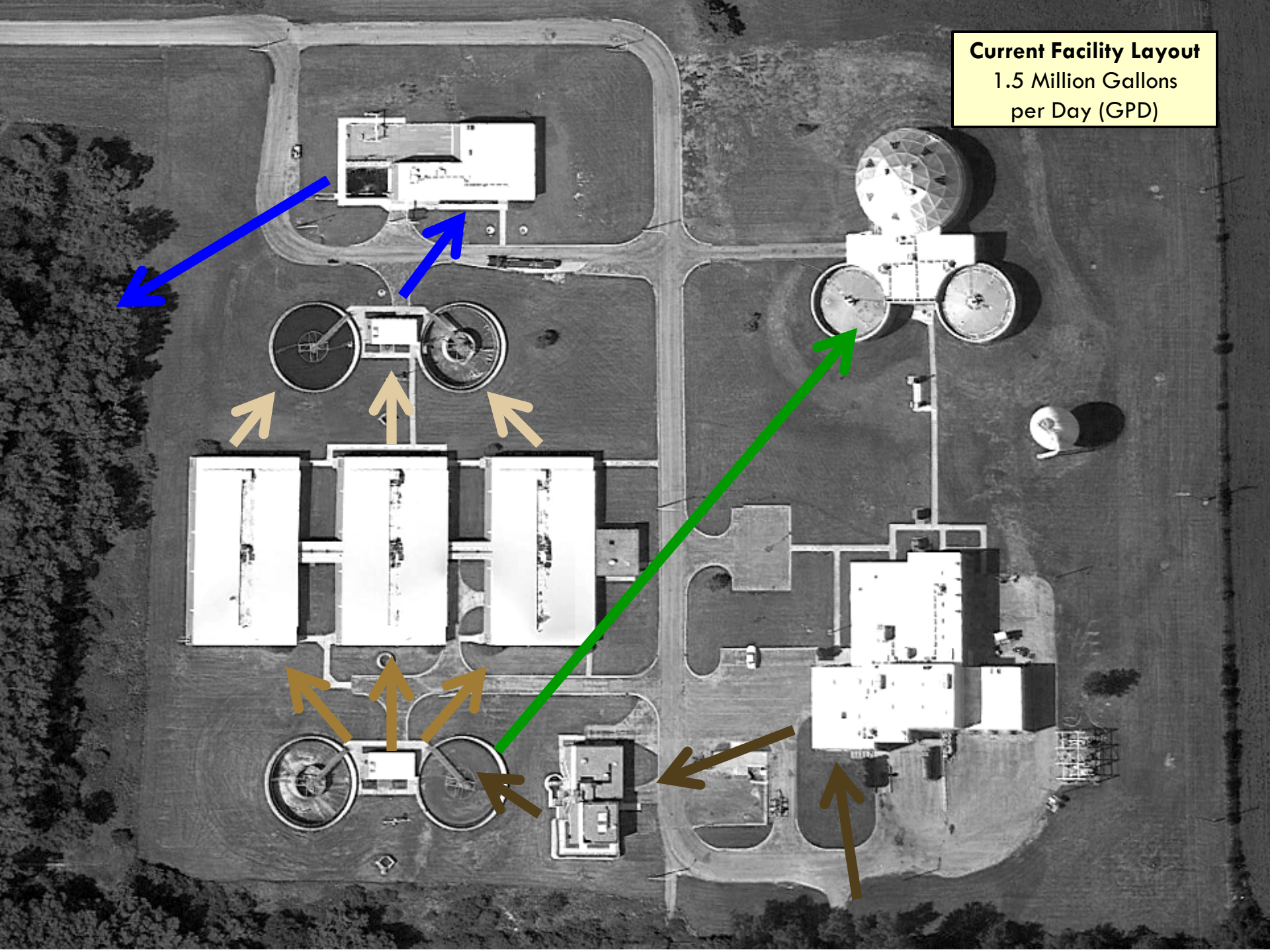
Looking to the future…

What do we do?

- Collect Wastewater
- Treat inorganics & nutrients
- Return clean water to the watershed




52 miles of sanitary sewer
$17M dollars in value
SForceMain


Current Facility Layout
1.5 Million Gallons
per Day (GPD)

Background

- Current facility built in 1982
- Preliminary Building - 1997
- Facility Planning - May 2008
- ARRA Project - 2009
- Facility Plan revisited - 2013

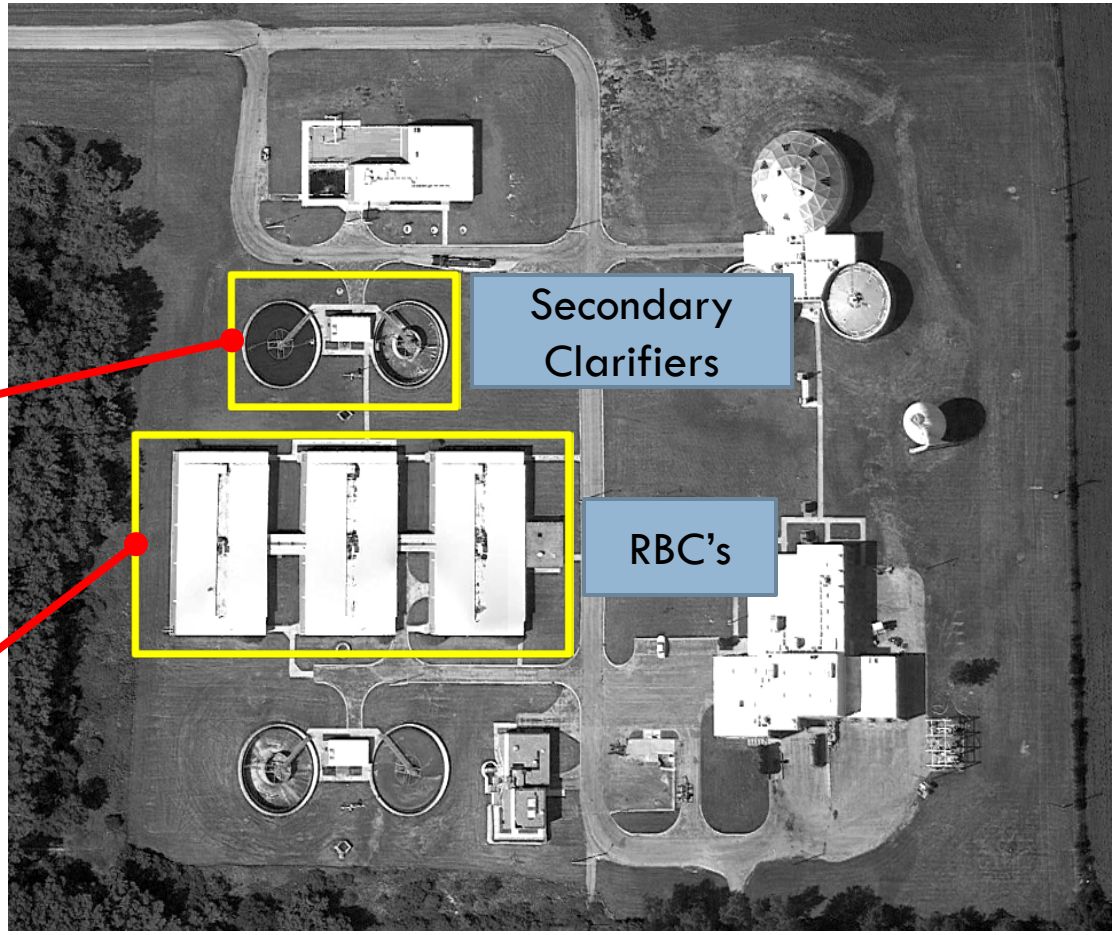
Main Objectives…

- Aging infrastructure
- ID Safety and code requirements
- Hydraulic bottlenecks
- Secondary Treatment
- Digester capacity

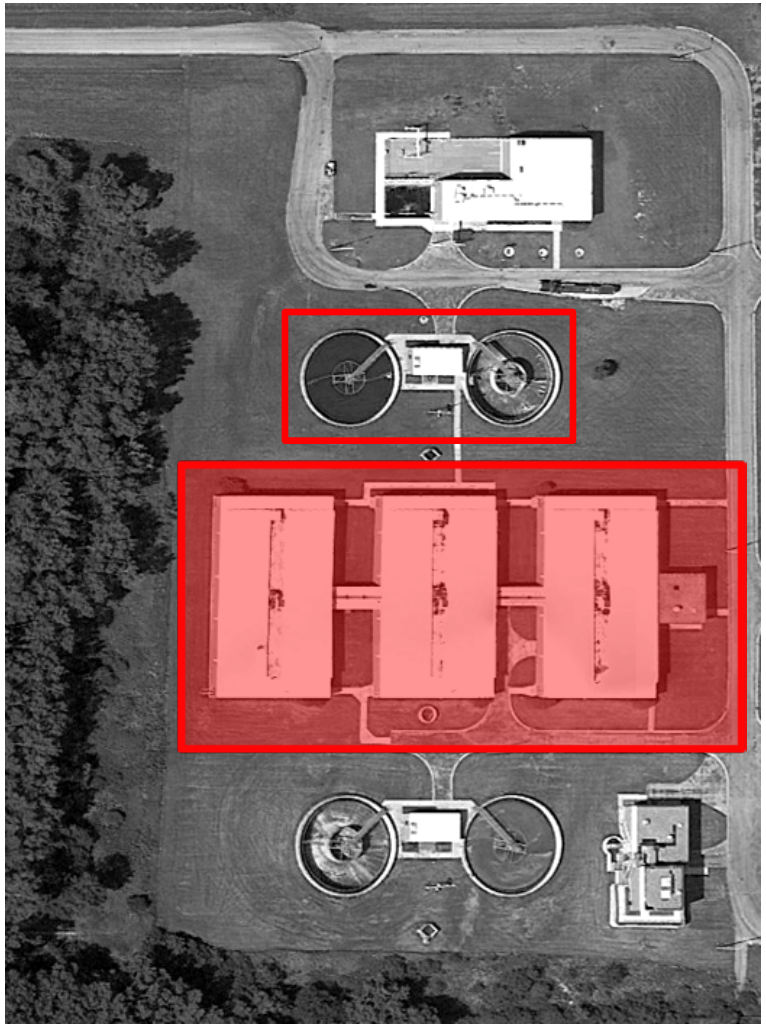
Preliminary Treatment

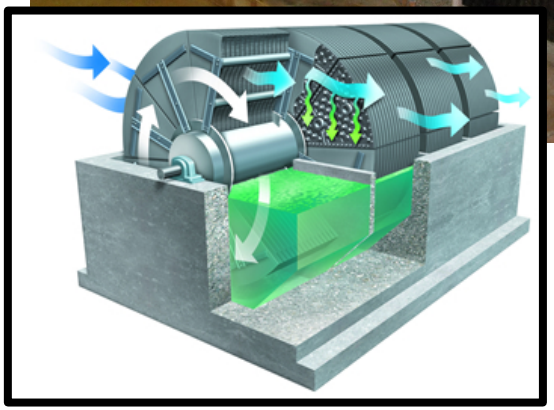
Primary Treatment

Secondary Treatment

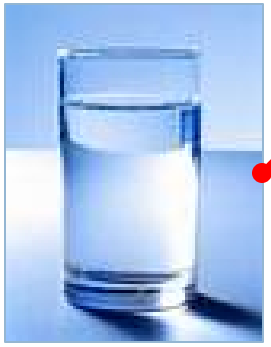


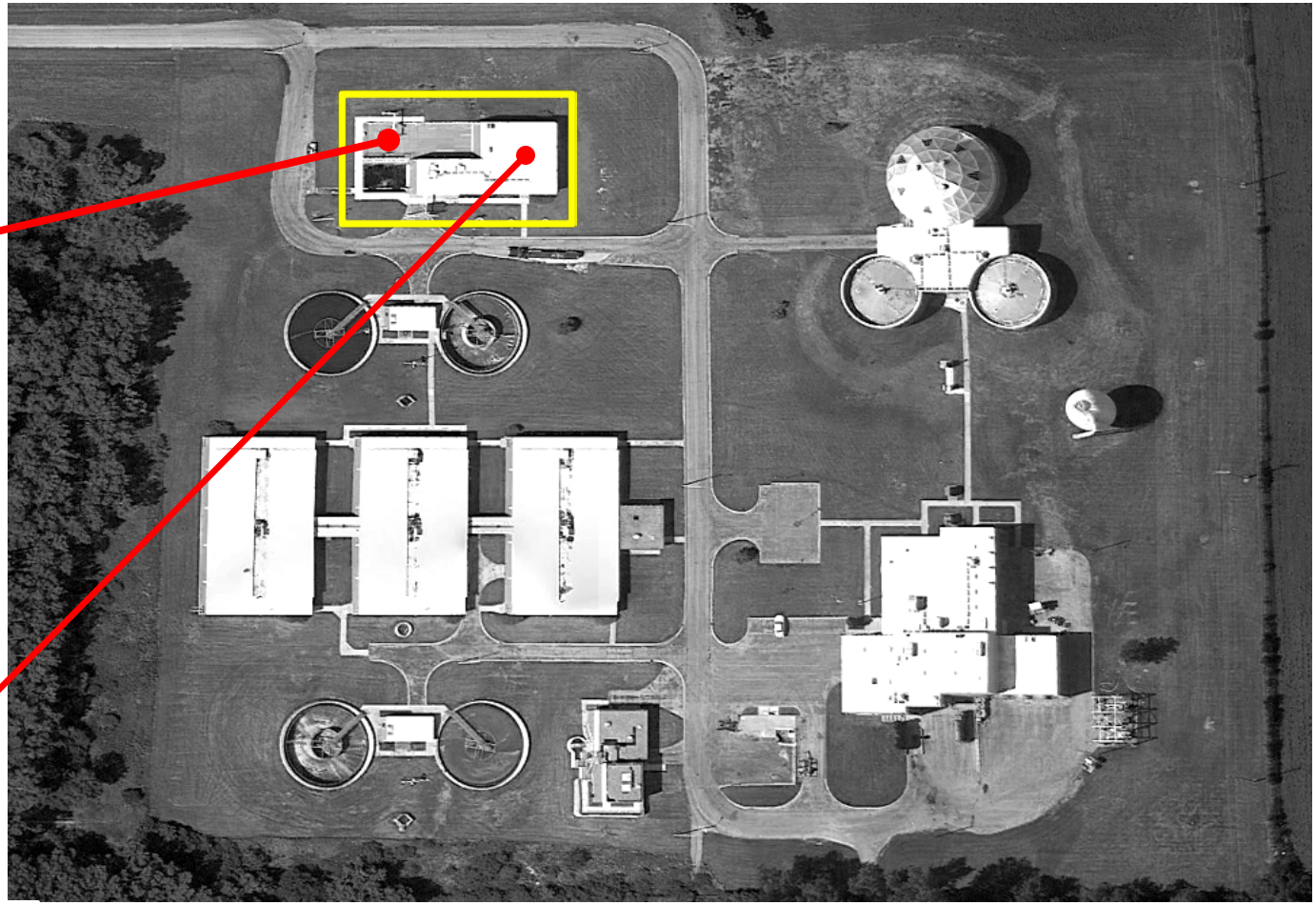
Secondary Treatment-RBC's





Filtration Building



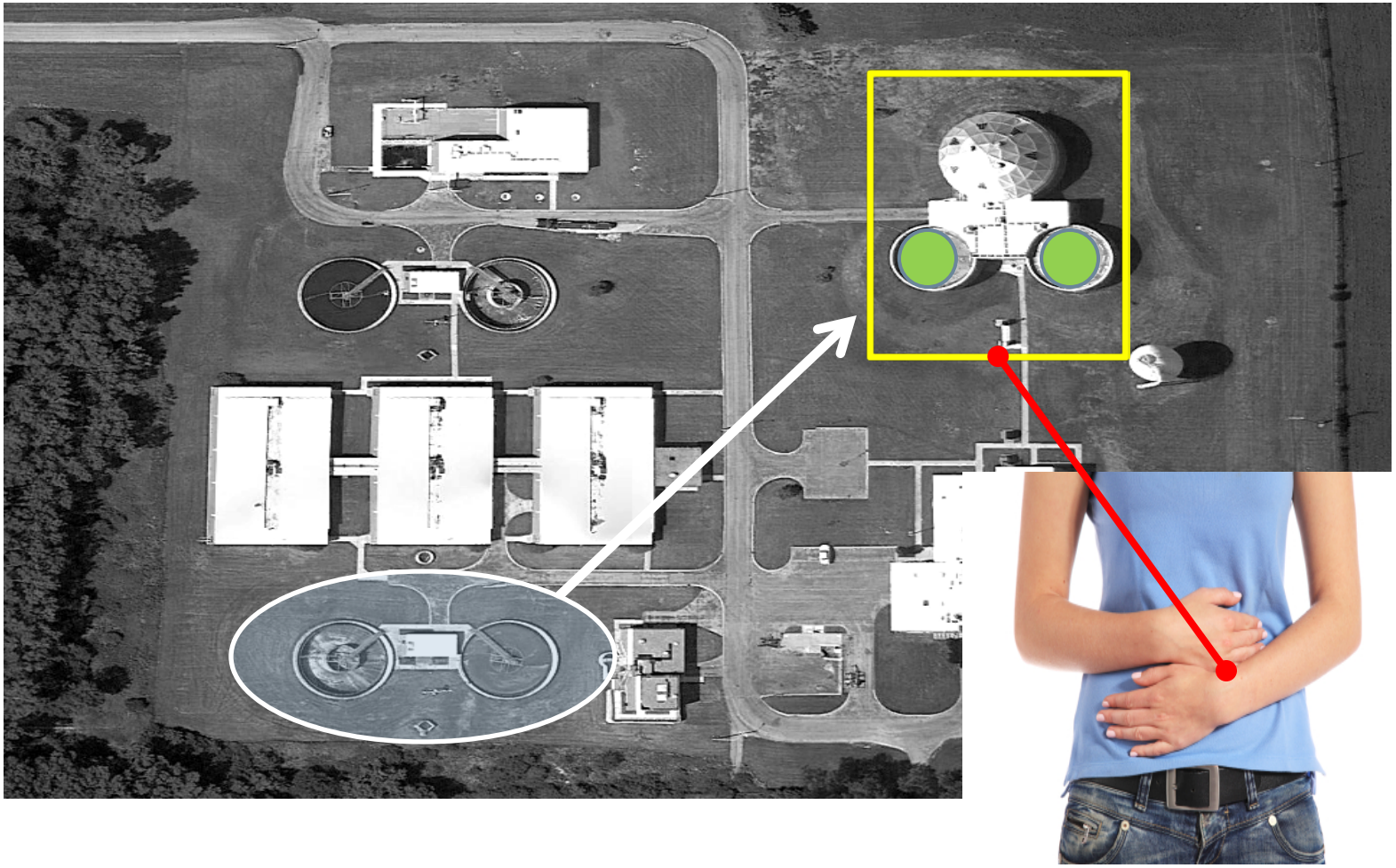


Liquid Treatment Capital Cost

Project Element	Total Project Cost
Biological Treatment System: Activated Sludge	$10.3M
Electrical Systems	$3.5 M
Fire and Safety Guidelines	$0.4 M
Buildings: HVAC and Lab QC	$0.5M
Buildings: Lab Expansion and Space Use	$0.6M
Site: Aging Site Infrastructure	$0.9M
Site: Hydraulics, Controls, and Aging Equipment	$2.5M
Total Project	$18.7M

No Digestion Complex Improvements

Solids Treatment



Solids Treatment Capital Cost

- Recommended upgrades to digestion complex

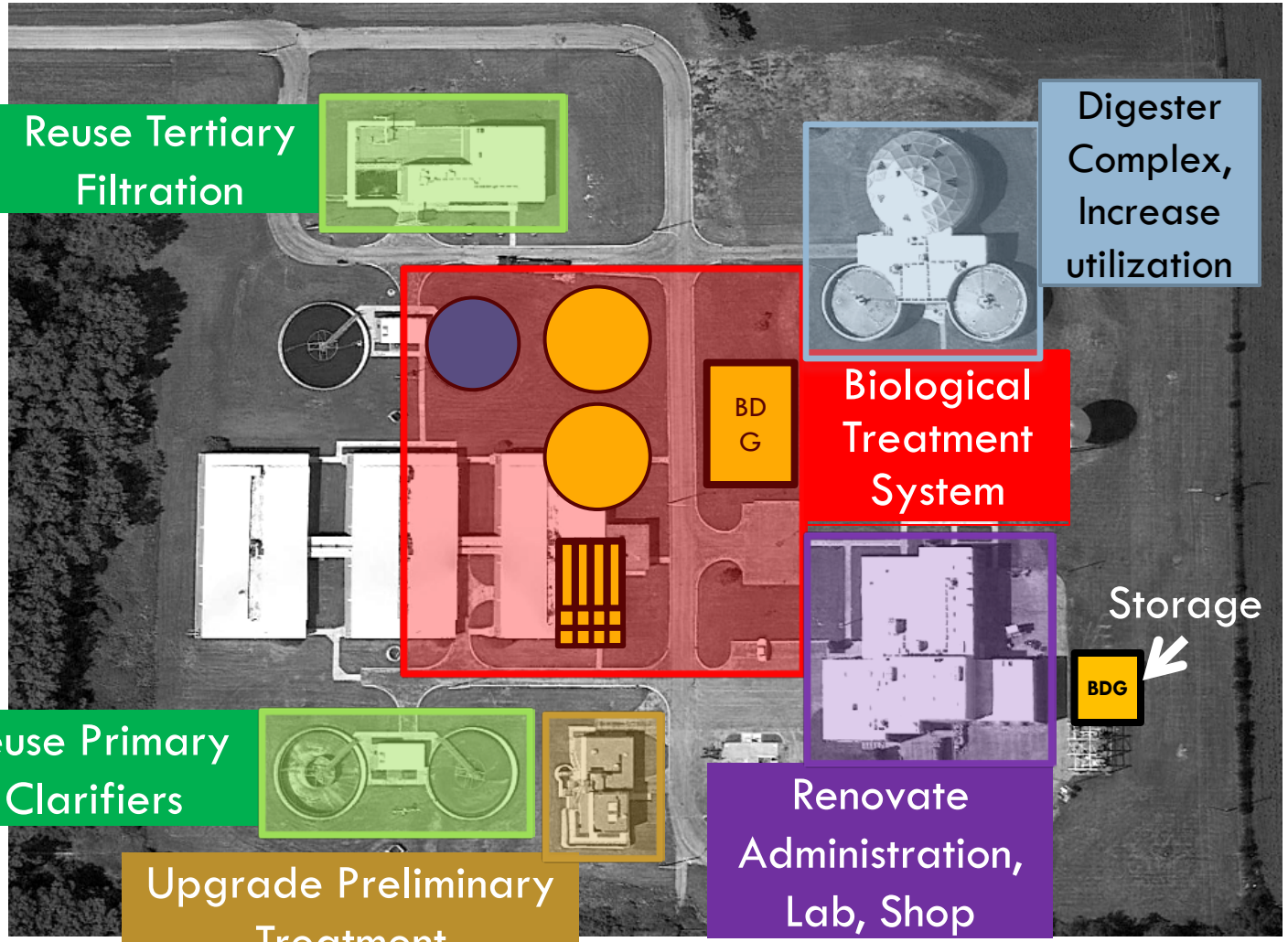
Biogas Boilers	$174,000
Hauled Waste Receiving Station	$299,000
Leaking pipe penetrations	$1,300
Repair floor decking	$13,000
Electrical MCC and duct bank repair	$172,000
NFPA 820 code compliance	$607,000
Post Digestion Thickening	$294,000
Passive overflow between digesters	$41,000
Digester mixing modifications	$450,000
Total Estimated Upgrade Cost	$2,052,000

Recommended for energy savings and increased revenue

Essential for safety and code compliance

Recommended for process performance and flexibility

The Recommended Plan



Total WWTF Project Cost

Whitewater WWTF $20.7M

Liquid Treatment	Support Facilities	Solids Treatment
Donohue Facility Plan • Address Age • Address Phosphorus		TM 4 • Utilize Biogas • Address Age

Project Financing

WHITEWATER UTILITIES
312 W. WHITEWATER ST.
P.O. BOX 690
WHITEWATER, WI 53190
262-473-1383

FORWARDING SERVICE REQUESTED

SERVICE ADDRESS
950 W CONGER ST

AMOUNT DUE
$81.57

AFTER DUE DATE PAY
$84.34

SERVICE FROM - TO
02/25/2015 03/27/2015

CODE	READINGS PREVIOUS	READINGS CURRENT	USAGE	AMOUNT
WU	378,659	372,682	5,977	12.43
WATER BASE CHARGE				7.31
SEWER USAGE			5,977	39.27
SEWER BASE CHARGE				9.56
STORM WATER			1.00 ERU's	5.58
PUBLIC FIRE PROTECT				7.42
CURRENT PERIOD AMOUNT DUE:				81.57

PRESORTED
FIRST CLASS MAIL
U.S. POSTAGE
PAID
WHITEWATER, WI
53190
PERMIT NO. 2

CUSTOMER
CLAPPER, CAMER

DUE DATE
04/20/2015

BILLING DATE
03/31/2015

ACCOUNT NO.
1501900001

SERVICE TYPE
WALW RES

RETURN BOTTOM PORTION WITH PAYMENT

PAST DUE AFTER	AFTER DUE DATE PAY
04/20/2015	$84.34

ACCOUNT NO.: 1501900001 AMOUNT DUE: $81.57

Service Address: 950 W CONGER ST

CAMERON CLAPPER
950 W CONGER ST
WHITEWATER WI 53190

Project Financing

- Volume Charge + Fixed (Base) Charge = Total
- Rate Summary:

	Volume (per 1000 gals)	Meter Fixed per Month (Option 1)	Single Fixed per Month (Option 2)
2014	$6.57	$9.56 per month (3/4" meter)	N/A
2016	$10.55	$10.00 per month (3/4" meter)	$12.00 per month

Project Financing

- Total estimated project cost $20.7M
- Impact on average user
  - Current $30/mo.
  - Proposed $45/mo.