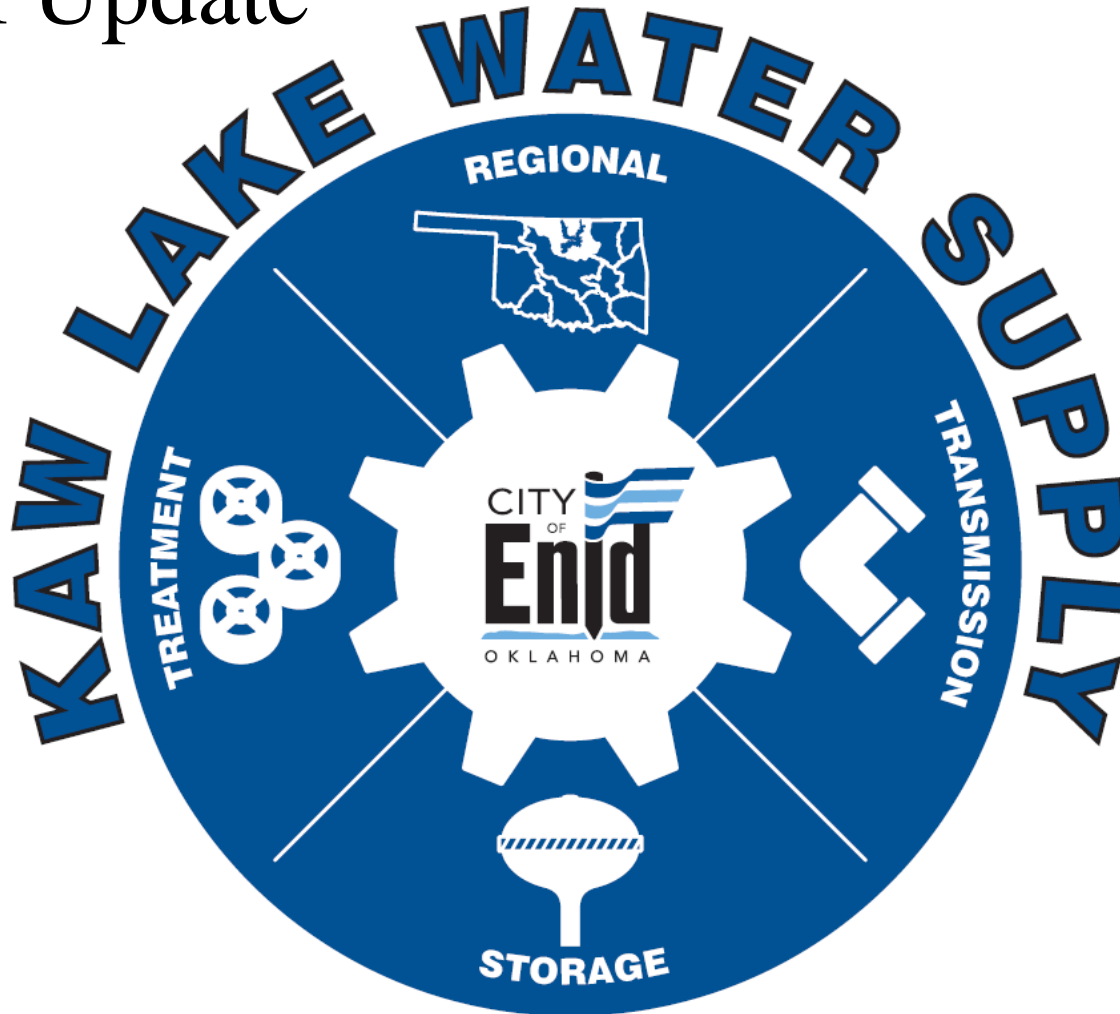
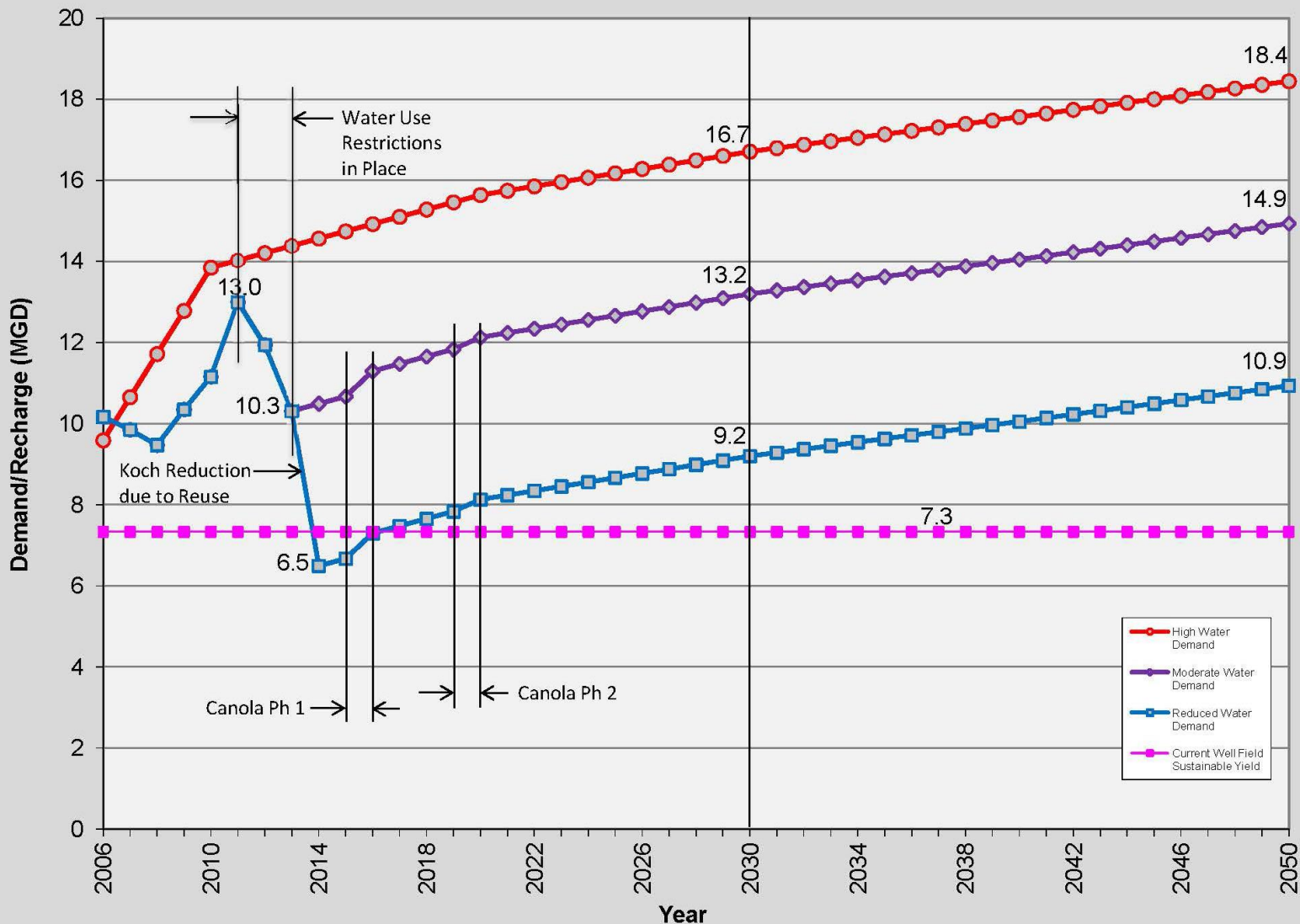


Phase I Update



Water Demand Projections

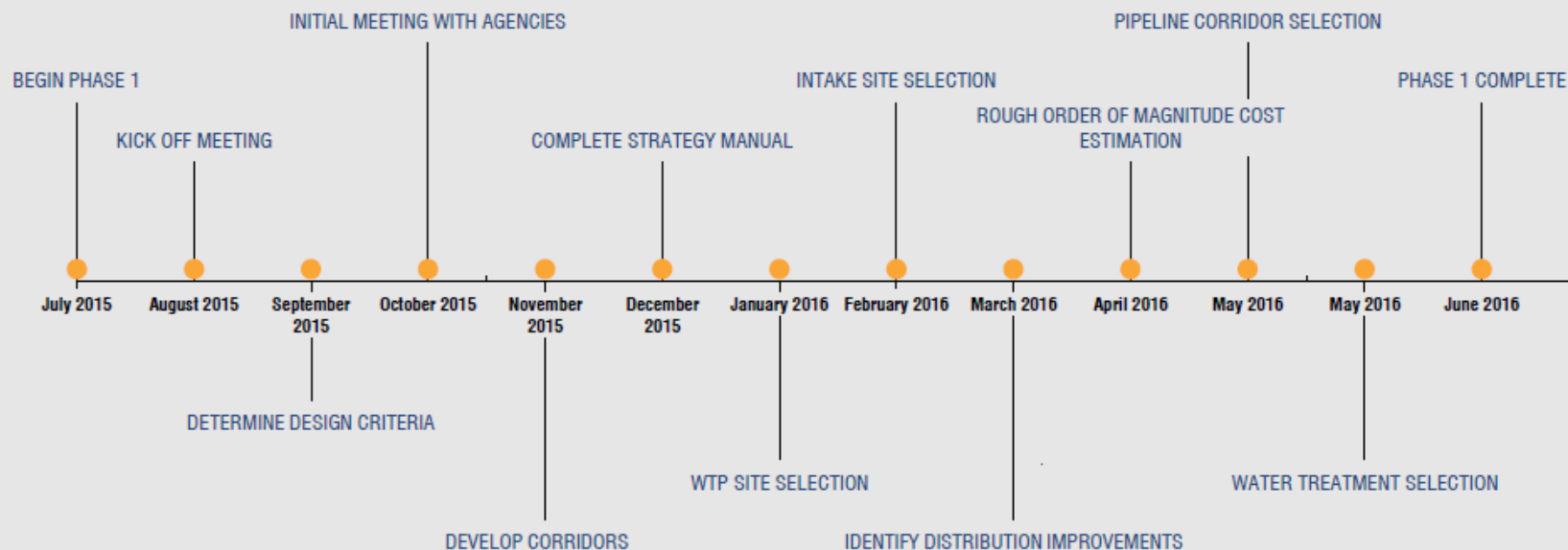
Enid Annual Water Demand



Program Segments

- Program Management
- Intake/Pump Station
- Pipeline
- Terminal Storage
- Water Treatment Plant
- Distribution
- Environmental

TIMELINE

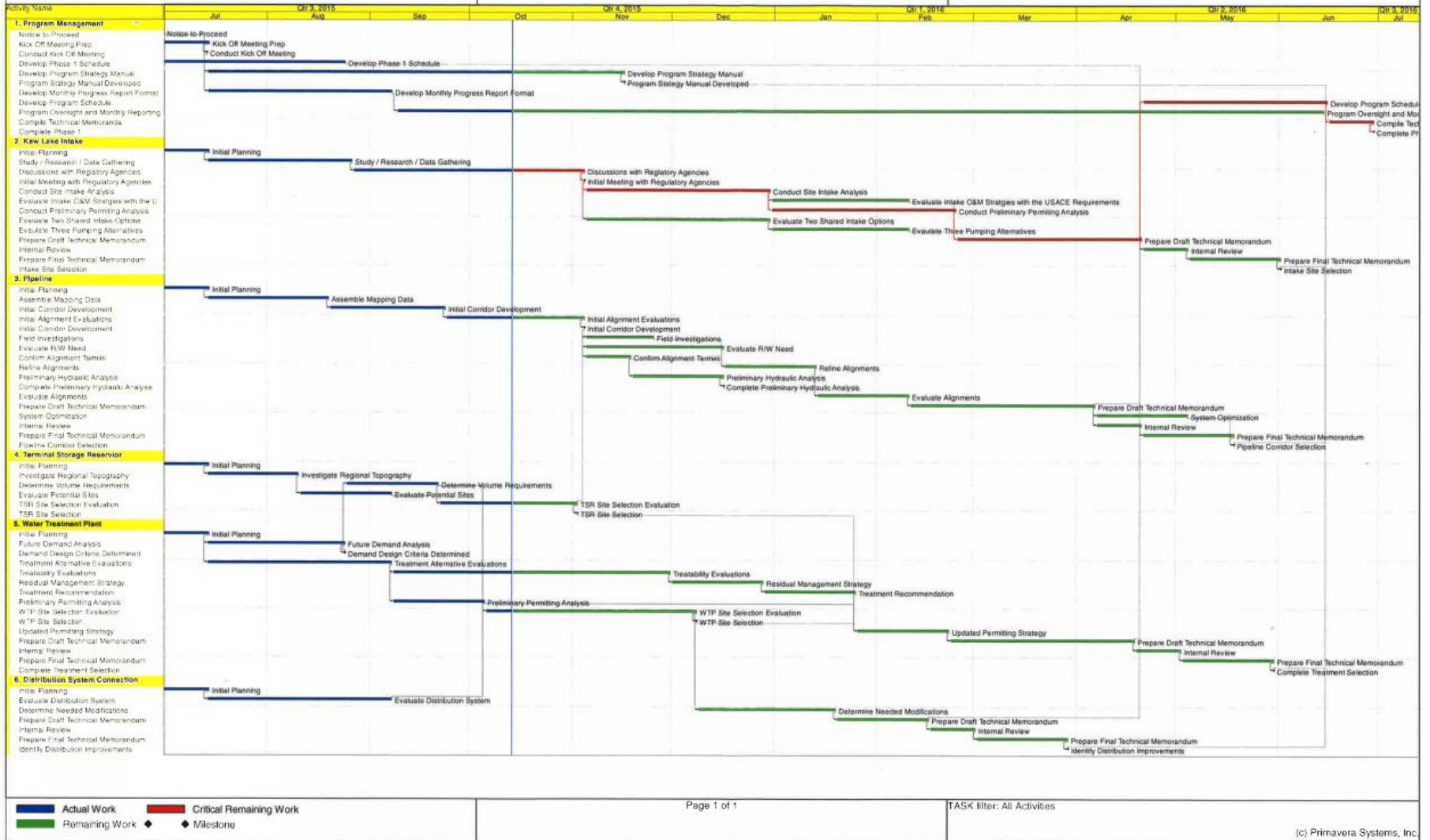


Program Management

Enid Alternate Water Supply

PHASE 1 SCHEDULE

October 14, 2015



Schedule

- Schedule pressures increasing associated with critical path items
 - Intake location – Data, teaming, and insufficient capacity
 - Will explore partnership opportunities
 - Terminal storage
 - Location and configuration
 - Water treatment facility
 - location
- Potentially impacting pipeline route evaluation process

Schedule (Continued)

- Program Impacts: Potential delay in completion of pipeline corridor study which could ripple across the program
 - No immediate schedule change required

Potential Options:

- Move forward with assumptions and accept some schedule/rework risk
- Increase schedule until a decision is made

Pipeline Routes



Preliminary Corridor Comparison

	Option 1 - Cross Country	Option 2 - Southern	Option 3 - Northern
Miles of Pipeline	66	72	77
Highest Pressure Class	300 psi	250 psi	300 psi
Landowners Affected	193	194	202
Tribal Impact	yes	yes	yes
Cost	baseline	31%	37%

Original Scope

- Optimized Solution
(Engineered Solution)

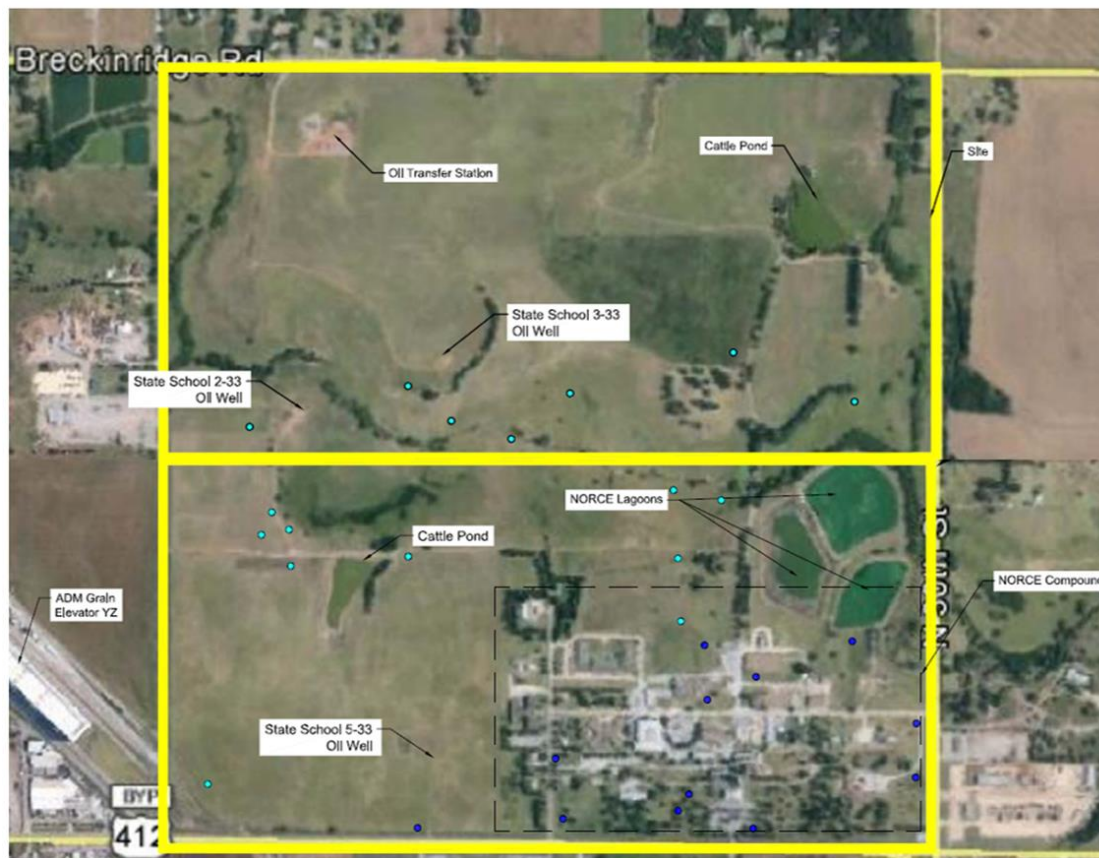


Alternate Concept

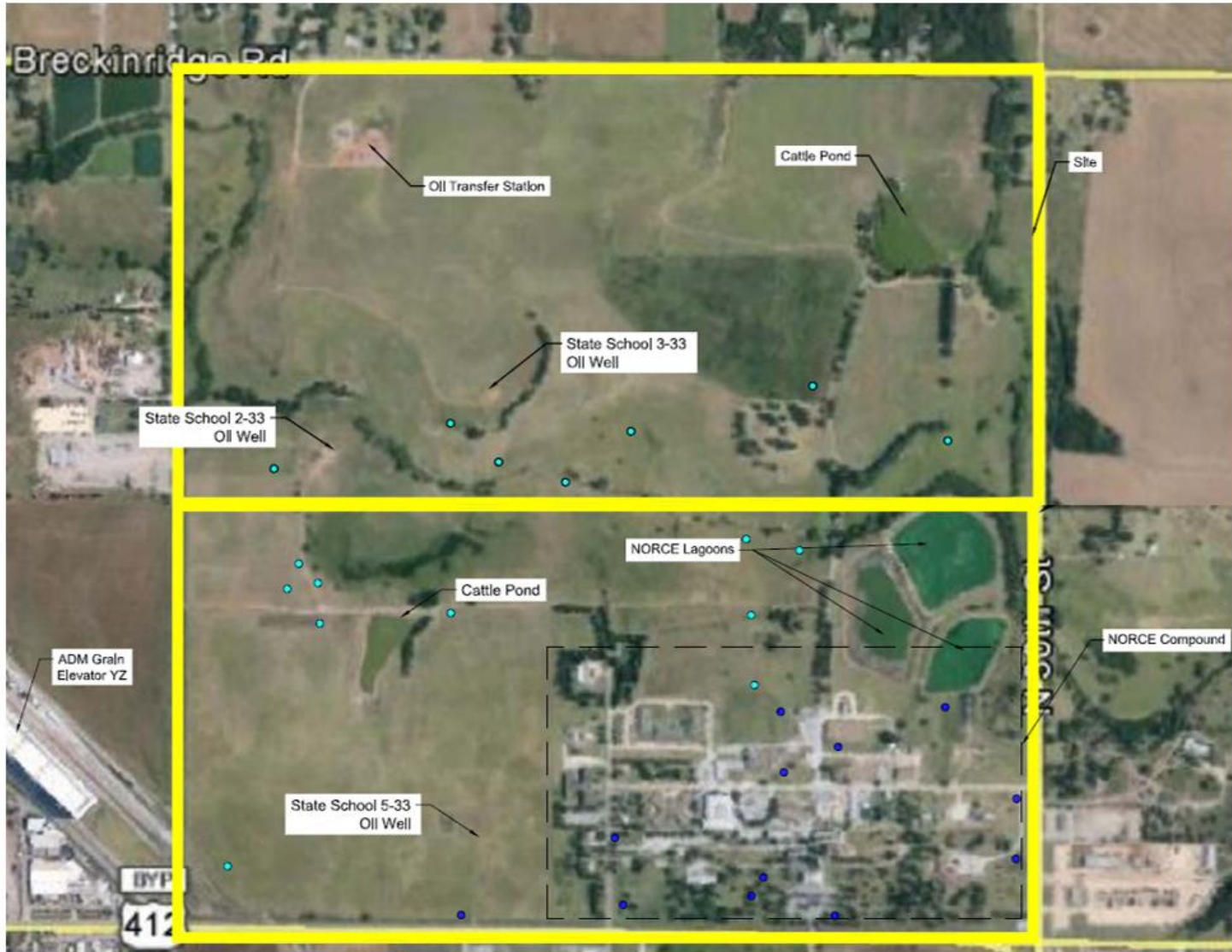
- Integrated community water feature



- Phase I Environmental Site Assessment
 - Due diligence: Identify potential or material environmental risks



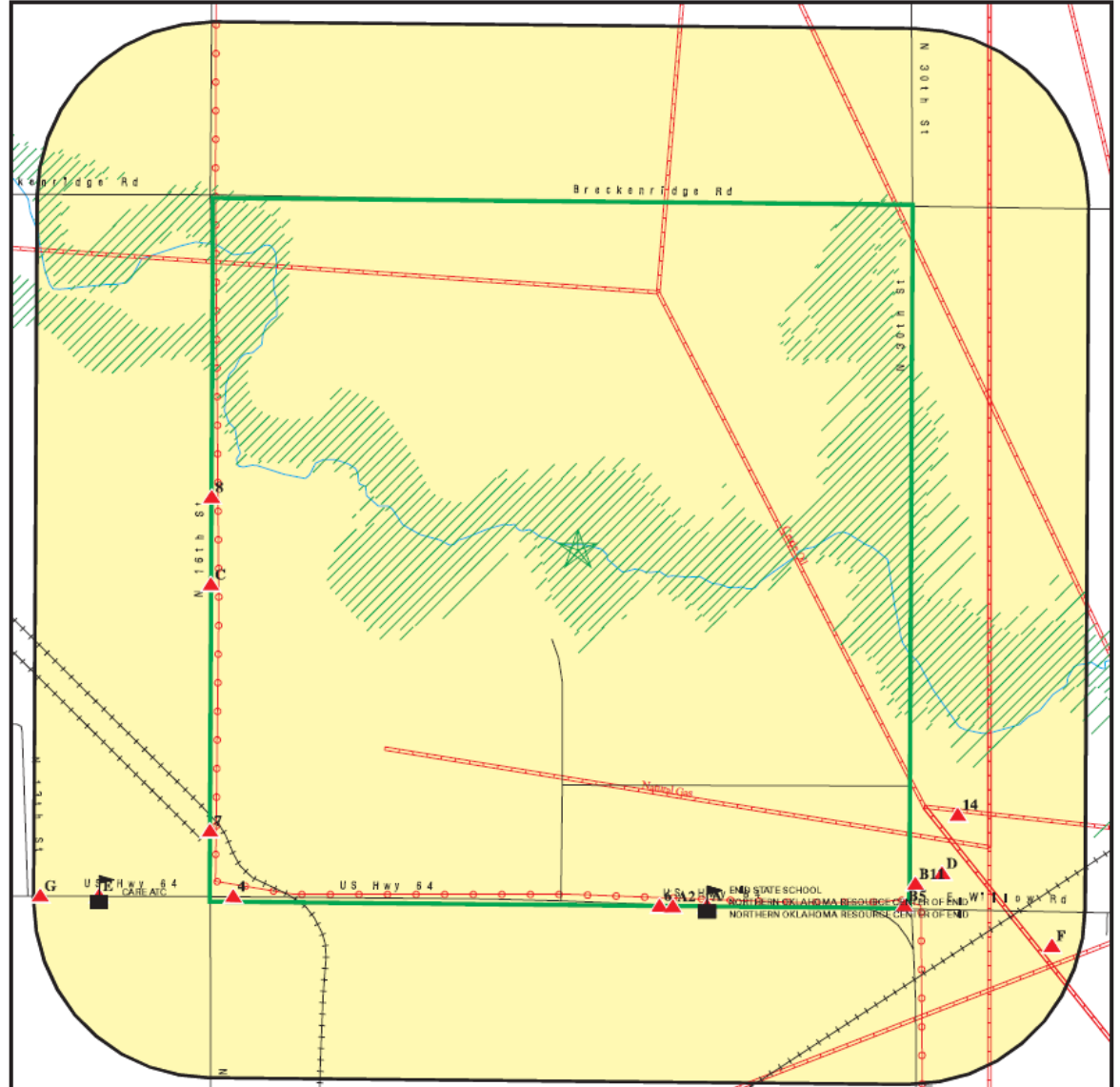
Site Evaluation



Site Evaluation

Crossing pipe lines

DETAIL MAP - 4417955.2S



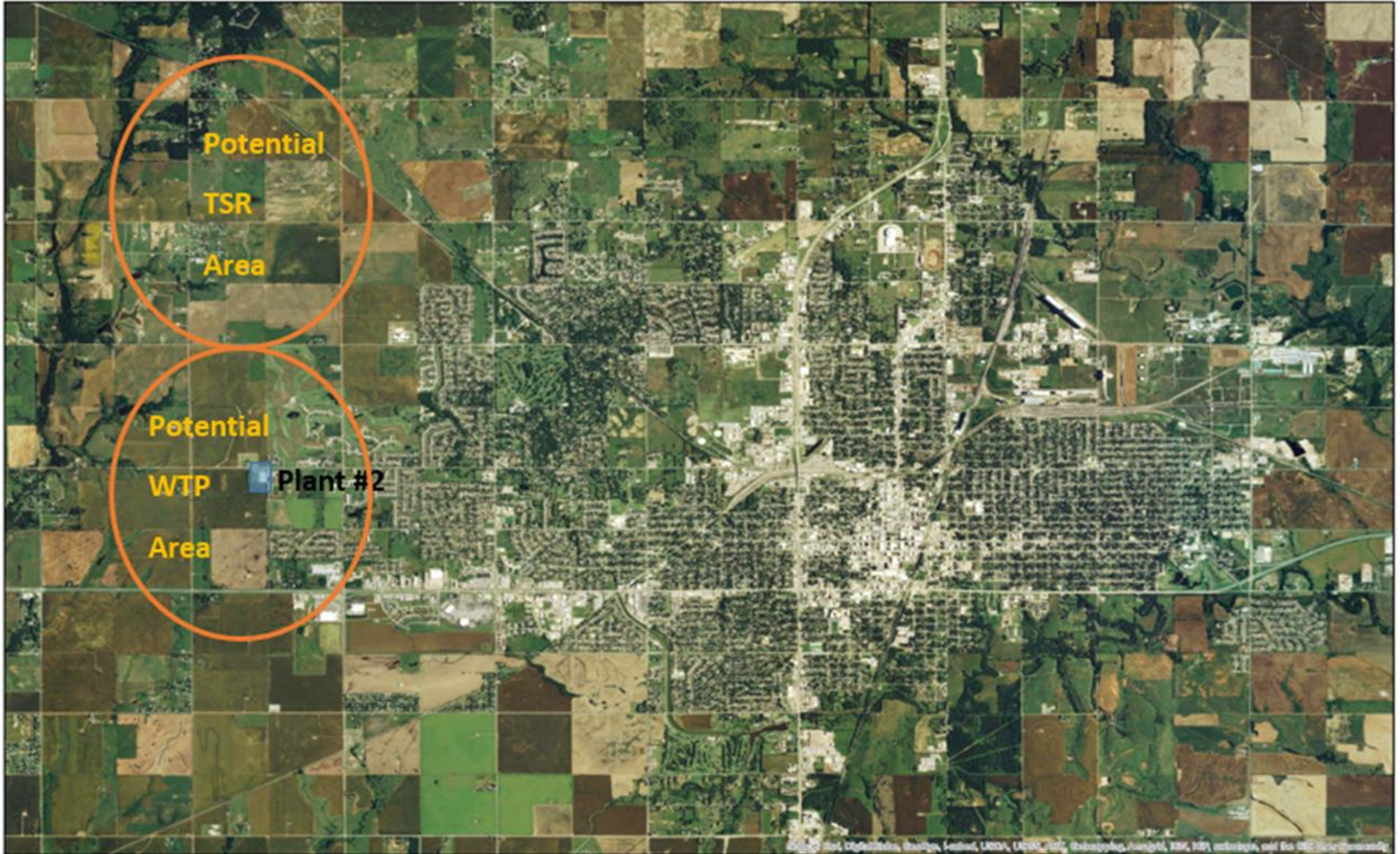
Site Evaluation

- Highlights
 - Identified ADM Grain Elevator plume as a Recognized Environmental Condition
 - Contamination plume approaching Skeleton Creek
 - Oil/Gas Pipeline dissects property
 - Monitoring wells on north side of creek
- **Site is not recommended for TSR**

Terminal Storage Approach

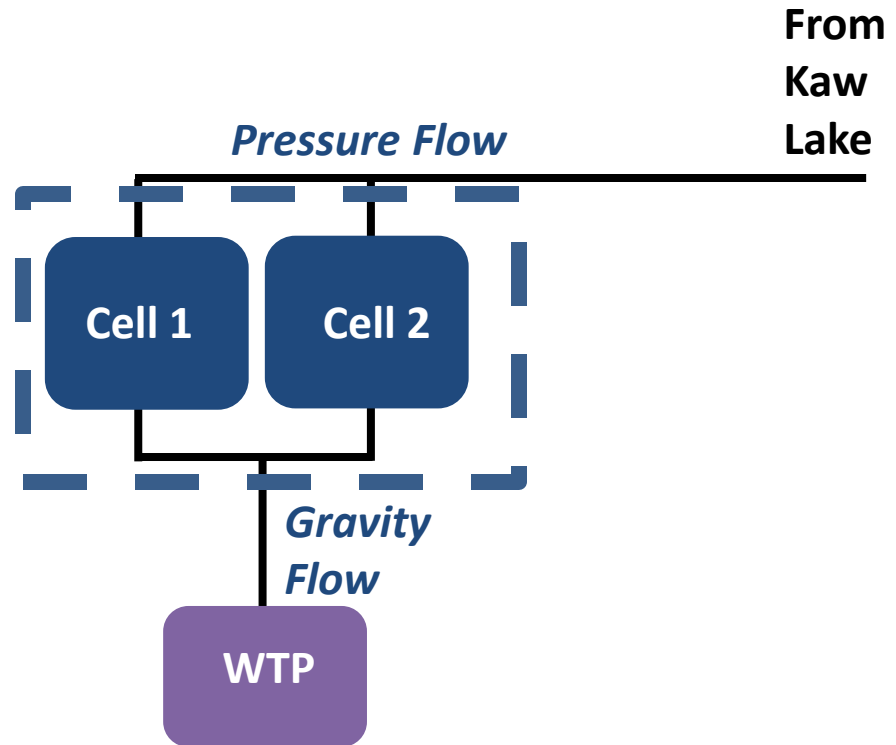
- TSR is comprised of Emergency, Equalization, and Ancillary storage
- Equalization storage physically separate
 - Located adjacent to emergency and ancillary storage
 - Allows security to protect water quality
 - Anticipated footprint – 15 to 20 acres
- Emergency and ancillary storage
 - Anticipated footprint – 25 to 40 acres
 - Integrate community water feature

Recommended Locations



Terminal Storage

- Terminal Storage
 - Single location
 - Gravity flow
 - Secure EQ storage
 - Reduced O/M costs



Recommendation:

- Although the NORCE site has many potential uses, the site is not considered suitable for use as a terminal storage reservoir
- Proceed with physically separated storage reservoirs
- Locate Water Treatment Facility in proximity with Plant #2
- Locate Emergency and Ancillary storage in Northwest

Phase I Update

