



R2E2 Update

Stakeholder Committee July 09, 2014









Agenda

- R2E2 Updates Since Last Meeting
 - 30% design workshops
 - Project scope reductions and increases
 - Construction Cost estimate
- Fluidized Bed Incinerator
 - 60% Workshop
- Contract 33 Primary Switchgear and Utility Relocation
 - Construction Status
- Schedule—What's next?
 - Major equipment pre-purchase and pre-select
 - Final design
 - Construction
- Open Discussion







Design Workshops

- All 30% workshops complete including the added unit process of P-Release - held May 30, 2014
- 60% workshops schedule and status:
 - HSW and Septage April 17, 2014
 - Solids and Site Civil May 1, 2014
 - Digesters and Biogas June 19, 2014
 - Fluidized Bed Incinerator, Nutrient Recovery, and P-Release Anaerobic Zone 60% workshops are pending
- Process Hazard Analysis conducted June 2 & 3, 2014





Project Scope Reductions/Increases

- Scope reductions were assessed in "zero delta" workshops and accepted as follows:
 - Reduced size of biogas storage tank
 - Reduced size of biogas compression/conditioning facility
 - Made septage receiving improvements a deductive alternate
 - Removed anaerobic zone improvements from R2E2 project
- One additive scope item was accepted use of thickening centrifuge in lieu of gravity belt thickener







Cost Estimate

- The team continues to look for ways to reduce costs
- •Below is a summary of cost progression:
 - -Facility Plan = \$147,000,000 in 2011 dollars
 - BODR (includes increased FBI and dryer sizing)
 - •\$124,000,000 in 2011 dollars
 - •\$144,000,000 in 2016 dollars (midpoint of construction)
 - -Current estimate is \$146,000,000 in 2016 dollars





Fluidized Bed Incinerator Procurement

- Submittal review is ongoing and model development is progressing
- Fluidized Bed Incinerator (FBI) model completion and 60% design workshop is scheduled for late July, 2014
- Deductive and additive change orders are being reviewed





Primary Switchgear and Utility Relocation (Contract 33)

- Initial contract to transition GBF electrical supply into new switchgear, relocate utilities and access roads, and construct new storage building
 - Awarded to Miron Construction
 - Notice to Proceed April 14, 2014
 - Mobilized on site May 2014
 - Construction is progressing on sludge piping relocation, electrical duct bank installation and primary switchgear facility
 - Contract Completion scheduled for July 15, 2015















































Procurement Schedule

- Pre-selection documents to qualified vendors:
 - Co-gen package: Issued Dec. 2013; Proposals Due Jan. 2014
 - Pre-selection of Caterpillar was recommended and notice of intent to purchase is progressing
 - Centrifuge package: Issued Dec. 2013; Proposals Due Jan. 2014
 - Pre-selection of Centrysis was recommended and notice of intent to purchase is progressing
 - Nutrient Recovery proposal package being developed for vendor pre-selection – RFP scheduled for issue late July 2014





Design Schedule (Contract 34)

- Design completion has pushed to Spring 2015
- Nutrient Recovery vendor pre-select and design is the critical path - the 60% workshop October 2014
- Remaining 60% workshops FBI, and Anaerobic Zone and P-release scheduled for July and August, 2014
- Bid in Spring of 2015 and Construction start Summer 2015







Open Discussion





Schedule – What's Next

- Post today's presentation on website
 - Continue to update our customers through external newsletter and website
- Next Customer Meeting
 - -Fall 2014







R2E2 Update

Thank you for coming!

