

Information Item 3: Blue Lake WWTP Construction Update

Presented to the Environment Committee

December 13, 2011

Carol Mordorski, Project Manager, Engineering Services



Blue Lake Project Goals

- **Process improvements to meet permit requirements**
- **Updates, rehab, replacement to maintain reliability, improve safety**
- **Improvements for capacity increase**
- **Sustainability and energy savings**



Blue Lake Plant 2005



Liquids & Solids Project Phases



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DESIGNER:
 CHECKED:
 NAME:
 1/8/2012

REVISIONS NO. DATE BY REVISIONS		REVISIONS NO. DATE BY REVISIONS		APPROVED DATE:	CHECKED (BY SIGNATURE) DATE:	DESIGNED (BY SIGNATURE) DATE:	DRAWN (BY SIGNATURE) DATE:	PROJECT NO. 811820	PROJECT NAME BLUE LAKE WASTEWATER TREATMENT PLANT	SHEET NO. 17
PROJECTED SHEET		PROJECTED SHEET		APPROVED RECORD DRAWING		PROJECT NO. 811820		PROJECT NAME BLUE LAKE WASTEWATER TREATMENT PLANT		SHEET NO. 17
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APPROVED RECORD DRAWING
 CHECKED (BY SIGNATURE) DATE
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PROJECT NO.
 811820
 PROJECT NAME
 BLUE LAKE WASTEWATER TREATMENT PLANT

PRELIMINARY DESIGN REPORT
 SITE - OVERALL SITE PLAN
 MINNESOTA

SIT PLAN



Liquids Treatment Facilities





Digestion: Reduce Mass & Volume of Biosolids



Digester Tank



Membrane Cover - Gas Storage





Biogas Replaces Natural Gas to Operate Dryer





Biogas Fuels Boilers for Bldg Heat





Questions?

