NE Well Head Protection Network Meeting
M.U.D. Platte West Water Treatment Plant
Platte West Well Head Protection Plan
October 24, 2016
Platte West Well Head Protection Plan

Introduction
Purpose & Approval

General & Discussion
Well Head Protection Program

Approvals

Concluding Comments

Next Steps
Platte West Well Head Protection Plan

Introduction

* Nebraska’s Well Head Protection (WHP) Program is a voluntary program

* Nebraska Legislature passed LB 1161 in 1998 which authorized WHP Area Act
  * This Act sets up a process for public water supply systems to implement a WHP Plan (WHPP)
  * NDEQ is the lead agency and WHPP approval

* On October 2, 2012, M.U.D.’s Board approved hiring HDR & JEO to develop WHP Plans for Platte South and Platte West well fields at a cost of $100,000
General

* Did not pursue WHPP in 1998 at PS
  * Only groundwater plant at that time
  * Fairly well protected by ownership of 600 acre wellfield
* Addition of PW, wellfields at PS being under the influence of surface water, and development around both wellfields
  * Time was right for WHPP
* HDR and JEO hired to develop WHPP for PS and PW
  * Scope was to develop WHPPs for each wellfield
  * Did not pursue WHPPs for peak shaving wells
    * Scattered throughout system
    * Started abandoning them as they are less important
Discussion

* Committee of interested parties formed (WHP Team)
  * Landowners
  * City and County officials
  * NRD officials
  * Private citizens
  * NDEQ

* Five specific actions were completed for the WHPP
  * Delineation Maps furnished by NDEQ
  * Potential Contamination Source Inventory
  * Contamination source management
  * Emergency, contingency, and long-term planning
  * Public education and participation
Discussion, cont’d

• Delineation Maps furnished by NDEQ
  -- 20 year time of travel lines to each well
Discussion, cont’d

* Potential Contamination Source Inventory
  * Updated within the past 3 years
  * Contaminants marked on map
  * Spreadsheet associated with point source contaminants
  * Land use map for non-point sources
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Discussion, cont’d

* **Contaminant Source Management**
  * Develop list of existing controls or develop/suggest new controls
  * Copies/descriptions of inter-agency agreements
  * Best management practices for agricultural or urban settings
  * Communication with city/county officials, NRDs, and need for zoning regulations
    * Well Head Protection Overlay Zoning District
Emergency, contingency, and long-term planning

- Plan includes copies of MUD’s emergency and conservation plans
- Short-term temporary source of drinking water
- Identifies options for obtaining new long-term source of water (new well locations)

Provide replacement source of drinking water in the event of:

- Shut down of well due to contamination
- A natural disaster that impacts wells: flood, tornado, drought, ice storm
- Major mechanical or physical breakdown of pump, water towers, or distribution system
- Vandalism to well, water tower/storage, or supply source
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Discussion, cont’d

* Public education and participation
  * WHPP available for public review 30 days prior to public meeting
    * Available on website
  * Public comments at regularly scheduled Board meeting
    * Notice of plans available for public review on August 4, 2013 in OWH
  * Proof of public meetings and notices
    * Notice of public hearing on August 25, 2013 in OWH
    * Public comments taken at September 4, 2013 Board meeting
Approvals

* Board of Directors unanimously approved WHPP on September 4, 2013
* NDEQ approved plan on October 29, 2013
Concluding Comments

- Estimated cost of plan was $85,119 for PS and PW
- Total cost was $82,354 for PS and PW
Next Steps

* Cass, Douglas, and Sarpy County’s undergoing revisions to planning regulations
  * Will include WHP Overlay Zones
  * Saunders County not reviewing regulations at this time
Questions/Comments???