

Town of Fairview Park
Wellhead Protection Plan
Local Planning Team Meeting
August 11, 2015

- 1) Introduction – background, sign in sheet
 - Hydrophase was hired by Fairview Park earlier this year to prepare a Phase II Wellhead Protection Plan update per Indiana’s Wellhead Protection Rule.
 - The original Plan (Phase I) for the wellfield was approved by IDEM in 2005. This update is due on November 15, 2015.
 - The purpose of this meeting is to discuss updating the original plan and to solicit information, comments or questions from affected parties.

- 2) Purpose of Wellhead Protection – is to prevent contamination of groundwater that is used for the public water supply
 - Wellhead protection originated with the EPA (1986) under the Safe Drinking Water Act. The Indiana Rule went into effect in March, 1997.
 - Wellhead protection planning consists of mapping the source water area for the wellfield, or the “Wellhead Protection Area” (WHPA), making an inventory of potential contaminant sources (PCSs), and developing management and contingency plans for the WHPA. The WHPA is the underground area where ground water flows to reach the production wells.
 - Local Planning Team (LPT) oversees updating the plan. In addition to the utility director and water superintendent, the team often includes someone in local government, planning, emergency response and property owners.

- 3) Calculating the WHPA - We first worked with Fairview Park in 2001-02, when a simple computer model was used to predict the paths along which groundwater flows to reach one of the production wells (sometimes called a “capture zone”). The area within a 5-year capture zone represents the WHPA. Because the Clinton Township wellfield came on line a few years ago, the capture was expected to shift to the east. After some discussion, IDEM requested that the WHPA boundary be updated accordingly. Supporting information includes: a geologic cross section of the area, and maps of groundwater flow, bedrock topography, and aquifer thickness. IDEM is currently reviewing the delineation.

- 4) Inventory of Potential Contaminant Sources (PCSs) in the WHPA
 - An updated electronic data base search (of federal and state databases) and windshield survey was conducted prior to this meeting.
 - Only one site was found in the electronic search – the Corner Stop gas station.
 - A windshield survey was done just prior to this meeting, and noted the possibility of spills along major roads and crop land (agricultural application).

Because there is very little in the way of clay overburden, the aquifer is relatively vulnerable to releases of contaminants at the surface.

- 5) The Management Plan goal is to reduce the potential for aquifer contamination. It includes:
 - Sanitary Setback Area (SSA) – 100 ft. around each well. SSA issues include chemical usage, security and roads. Land within the SSAs is owned by Fairview Park.
 - Management, monitoring of PCSs where applicable, mailing information

- Public Water Supply Well Permit Requirements
- Monitoring Schedule – How often the water is tested for different types of contaminants
- Record Updates: Any changes are documented here
- Communicate w/ planning or zoning departments, and be advised of any proposed improvement projects, or re-zoning. Recommend that the County Planning department be contacted to include the WHPA on a County GIS map.
- Identify and properly abandon any out-of-use wells. Improperly grouted or abandoned wells can act as a vertical pathway for contaminants.
- Pesticide Management – The Purdue Extension Office and NRCS are sources of information on best management practices. The OISC, which regulates pesticides in Indiana, has found little evidence in Indiana to indicate that farm application of these chemicals, *when applied in accordance with label directions and rates*, have resulted in residue levels in soil that would contribute to groundwater contamination.
- Notification of PCSs, and other property owners and leaseholders of record within the WHPA. This could be done through direct mailing or posting in the paper, or on a website.
- Providing information to the public – Examples: posting information at the utility office, board or public meetings, including information in the annual CCR, or through programs already in place via the Purdue Extension office, soil and water conservation districts, etc.
- Are there any WHPA boundary signs (not required)?

- 6) Contingency Plan – How to respond to incidents that may threaten the water supply. It includes:
- Local Responder Training & exercises. Information on the WHPA can be mailed to the EMA and to emergency responders.
 - Emergency Procedures. Any changes in the procedures for water emergencies from Phase I? “INwarn” membership or mutual aid agreements?
 - Emergency Contact Information (check for updates)
 - Alternate Sources of Water in the event of an interruption in the supply? We should mention any connections with the nearby systems.
 - Critical Water Users List – A list of water users that are more vulnerable to a system shut down (i.e. medical care facilities, schools, nursing homes, or simply larger volume users)?
 - Where is the Plan available for review, town hall?

7) Summary

- 1) Need a current list of local planning team members
- 2) Potential contaminant sources update
- 3) Are there any known abandoned wells in the WHPA?
- 4) Recommend contacting (in addition to property owners) the EMA and Emergency responders, planning department, the Purdue extension office, NRCS, and County health department, in writing, with regard to the WHPA
- 5) Will ask you to review any proposed mailings or postings
- 6) Documentation: meeting, sampling spreadsheet, examples of notifications or CCR mailings that are sent out.
- 7) The due date for the plan is November 15, 2015

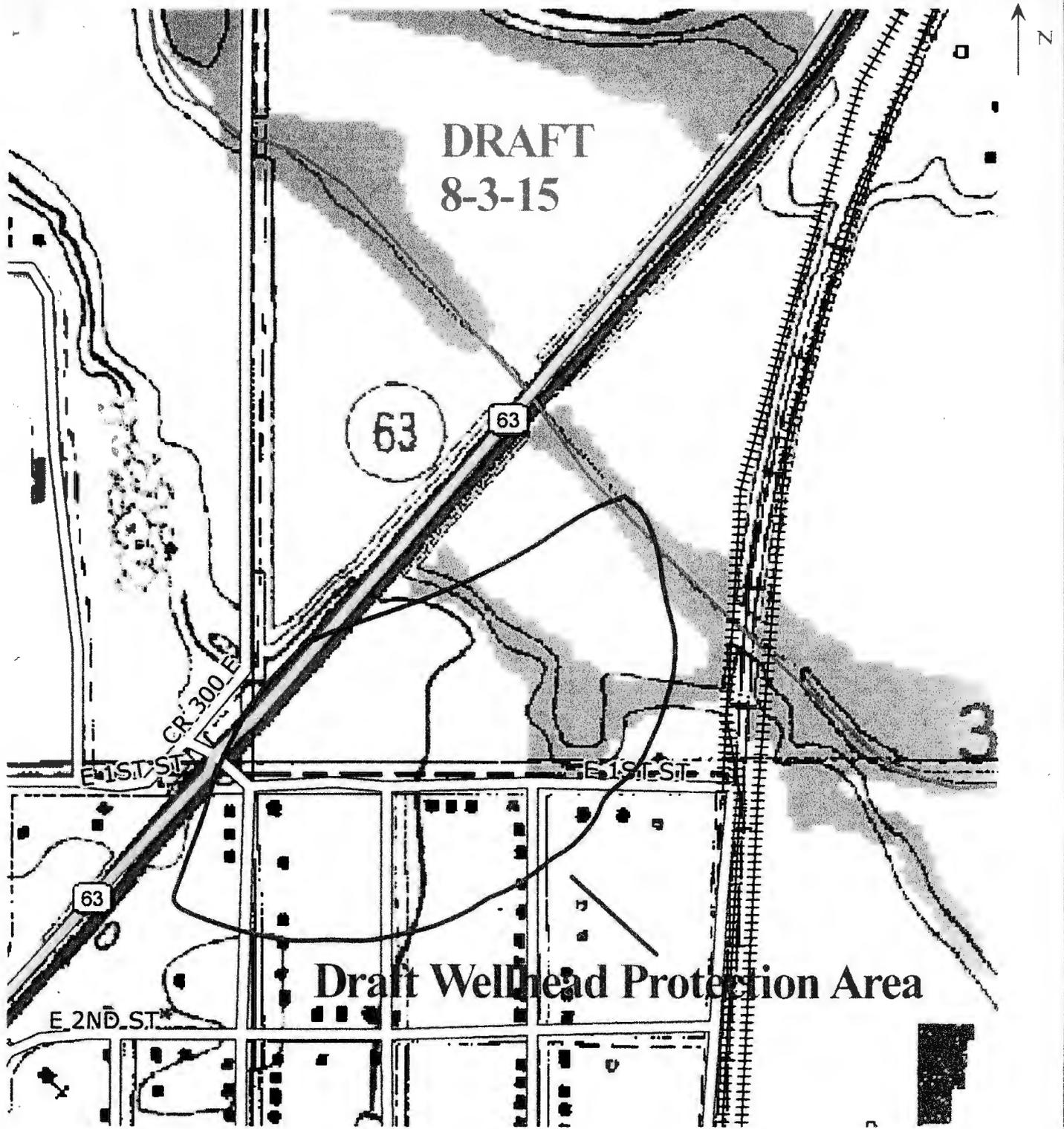


Figure 10. Potential Contaminant Source Map of the Fairview Park WHPA (base map is from the USGS Clinton Quadrangle via Delorme). At the time of this draft, the only things that would qualify for potential contaminant sources are possible spills along the highway and agrichemicals applied between the two wooded areas in the northeast part of the WHPA.

LEGEND

SCALE: 1" = 500'

0 250 500 1,000 Ft



→ Hydrophase, Inc.