City of Auburn, Nebraska Wellhead Protection Plan

Prepared by the Auburn Board of Public Works Updated June 2018



Acknowledgements

Preparation of the City of Auburn Wellhead Protection Plan was by the Auburn Board of Public Works (BPW) and made possible by funding assistance originally provided by the Nebraska Department of Environmental Quality Source Water Protection Program grant in the fall of 2008 prior to the plan update in 2018. Leggette, Brashears & Graham (LBG) assisted with the plan update.



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List of Abbreviations and Acronyms				
AO	Administrative Order	MG	Million Gallons	
BMPs	Best Management Practices	MGD	Million Gallons per Day	
BPW	Auburn Board of Public Works	NDEQ	Nebraska Department of Natural	
			Resources	
CCR	Consumer Confidence Report	NHHS	Nebraska Department of Health	
			and Human Services	
City	City of Auburn	NRCS	Natural Resources Conservation	
			Service	
CSI	Contaminant Source Inventory	NRD	Natural Resources District	
DWPMP	Drinking Water Protection Management Plan	NRWA	Nebraska Rural Water Association	
EPA	Environmental Protection Agency	PER	Preliminary Engineering Report	
ETJ	Extraterritorial Jurisdiction	PWS	Public Water System	
EQIP	Environmental Quality Incentive Program		Routine Sanitary Survey	
GIS	Geographic Information System	TGF	The Groundwater Foundation	
GPM	Gallons Per Minute	WhAEM	Wellhead Analytic Element Model	
			2000	
LBG	Leggette, Brashears & Graham	WHP	Wellhead Protection	
MCL	Maximum Contaminant Level			
NASS	National Agricultural Statistics Service	UNL	University of Nebraska - Lincoln	
NNRD	Nemaha Natural Resources District	USDA	U.S. Dept. of Agriculture	

Plan Summary

This plan follows the Nebraska Department of Environmental Quality's (NDEQ) voluntary Wellhead Protection (WHP) Program, which is intended to provide guidance and assist communities and public water suppliers in preventing contamination of their water supplies. State WHP Program activities include: delineating the zones of influence which may impact public supply wells, inventorying all potential sources of pollution within vulnerable zones, working with local officials to identify options for managing potential pollution sources, developing monitoring plans, and helping develop contingency plans to provide alternate water supplies and site new wells.

The Nebraska Legislature passed LB 1161 in 1998 (Neb. Rev. Stat. 46-1501 - 46-1509), authorizing the WHP Area Act. The Act sets up a process for public water supply systems, to use if they choose, to implement a local WHP Plan. In accordance with the WHP Area Act, all community public water supplies have a WHP Area map as of October 1, 2004.

The City of Auburn (City) Board of Public Works (BPW) established a new WHP Area in November 2017. This WHP Area was established using both the groundwater 50-year time-of-travel flowlines, along with watersheds of streams that recharge the alluvial aquifer, and is called a conjunctive delineation. This is due to the fact that pollutants in runoff from the watersheds have the potential to contribute pollutants to Auburn's drinking water aquifer. The City has enacted certain restrictions on specific activities occurring within its WHP Area. These existing controls are codified in Auburn Municipal Code Chapter 51.073 found in Appendix A.

The Little Nemaha River alluvial aquifer that supplies Auburn's drinking water supply is sparse and threatened by the presence of multiple onsite wastewater treatment systems, surface water pollutants infiltrating through streams to the aquifer, among other sources of potential nitrate contamination. To address the threat from nitrate contamination, the BPW established a Drinking Water Protection Management Plan in 2018 (DWPMP). The goal of this project was to prepare a comprehensive management plan that works in collaboration with the WHP Plan and WHP Ordinance. Management options, such as use of cover crops, filter streams, grass waterways, onsite wastewater system upgrades, and other practices will aim to reduce or completely eliminate certain threats to Auburn's source of drinking water. The DWPMP includes a four year implementation strategy starting in 2018. This WHP Plan will be updated approximately every five years, along with an update to the DWPMP, in order to ensure that appropriate actions are in place that are protection the community water supply.

CHAPTER 1 - INTRODUCTION

1.1. Community Background

Auburn, the Nemaha County seat, is located in southeast Nebraska at the intersection of US Highways 75 and 136 (see Figure 1). The community lies in the Little Nemaha River Valley surrounded by intensive agriculture and rolling hills. Auburn's population, as seen in Table 1, was 3,459 in 2010, which is a steady increase from the 2000 population of 3,350 (US Census Bureau, 2017).

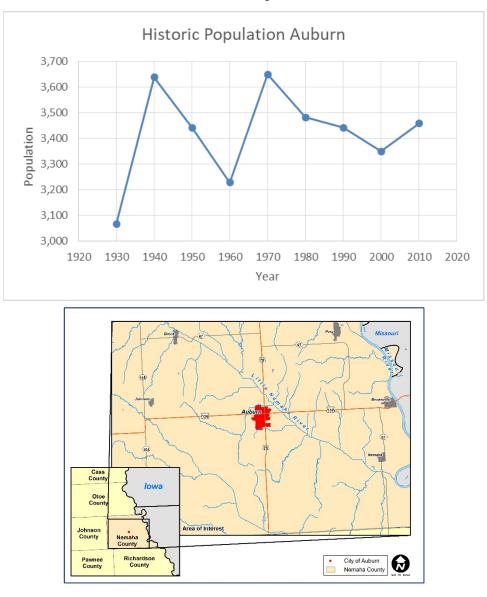


Table 1.Auburn Population Since 1930

Figure 1. Auburn, NE Location

1.2. Nebraska's Wellhead Protection Program

NDEQ administers the WHP Program, which began after the Nebraska Legislature passed LB 1161 in 1998 (Neb. Rev. Stat. 46-1501 - 46-1509), authorizing the WHP Area Act. The intent of this program was to establish guidelines for communities and other public water suppliers to develop local wellhead protection plans. This Act sets up a process for public water supply systems, to use if they choose, to implement a local WHP Plan.

1.2.1. Wellhead Protection Program Activities

- 1) **Delineate the Wellhead Protection Area (WHPA)** The NDEQ can provide a public water system with a WHP Area map that shows the area that is critical to supplying a community's groundwater and drinking water supply.
- 2) **Perform a Contaminant Source Inventory (CSI)** Conducting a CSI involves locating and documenting activities, structures, and locations that may pose a threat to drinking water.
- **3)** Manage potential contaminants After identifying potential contaminant sources within the WHP Area, the community can use management such as zoning, ordinances, and work with landowners to install best management practices (BMPs), or other options to minimize the threat to drinking water.
- 4) Develop emergency and contingency plans These plans will enable a community to react to events such as natural disasters, contamination, and drought. These and other issues, such as population growth, can be address through emergency/contingency plans, as well as by planning for new wells.
- 5) Educate and involve the public Community awareness will help to provide citizens with the information they need to protect drinking water and increase the likelihood that a WHP Area is successful.

1.3. Auburn Wellhead Protection Contacts

In Table 2 below includes contact information for key agencies which were included in the establishment of the wellhead protection plan, or could provide technical assistance with wellhead protection activities. A full list of emergency contacts for the water system are listed on page 2 of the Emergency Plan.

Agency/Role	Name	Title	Phone/Email
City of Auburn	David Hunter, Jr.	General Manager BPW	402-247-4981 dhunter@auburnne.net
City of Auburn	Ken Swanson	Water/Wastewater Manager BPW	402-247-4981 kswanson@auburnne.net
Nemaha NRD	Chuck Wingert	Water Resources Manager	402-335-3325 cwingert@nemahanrd.org
NDEQ	Sam Radford	WHP Coordinator	402-471-3376 sam.radford@nebraska.gov
LBG	Jonathan Mohr	Environmental Planner	402-416-4667 jon.mohr@lbgmn.com
Nemaha County Parcel Information	Mallory Lempka	Assessor	402-274-3820 county.assessor@nemaha.nacone.org
NEHHS/Regulations	Tom Christopherson	Program Manager	402-471-0598 tom.christopherson@nebraska.gov
NRCS	Roger Reichmuth	District Conservationist	402-335-3377 ext. 3 roger.reichmuth@ne.usda.gov
Nemaha Co Emergency Management and Planning	J. Renee Critser	Emergency Management and Planning	402-274-7652 nemahaema@windstream.net
Midwest Assistance Program/Financial	Dennis Carroll	Regional Field Manager	402-419-6283 dcarroll@map-inc.org

Table 2.	Auburn Wellhead Protection	Contacts

CHAPTER 2 - AUBURN WATER SYSTEM

2.1. Water System Information

Auburn Board of Public Works operates the City's water system, which consists of a total of 12 groundwater source wells all located adjacent to the City all within the Little Nemaha River alluvial aquifer. Each well depth averages around 45 feet because the bedrock formation in the Auburn area limits the depth of the aquifer. Shallow source alluvial aquifers consisting of thin layers of sand and gravel are typically more vulnerable to potential contamination sources, such as nitrate, and confined to the extent of the clay and till outside of the valley within the uplands. In addition, Auburn's wells are under the influence of surface water from the nearby Little Nemaha River and several nearby tributaries, which is a potential health risk to the users of the drinking water system due to the potential for surface water contaminants, such as bacteria, to pass through the water system. During the summer of 2008, the Nebraska Health and Human Services (DHHS) listed the municipal wells as Groundwater Under Direct Influence (GUDI) of surface water.

Due to the GUDI classification, Auburn BPW constructed a new water treatment plant during the summer of 2009. Water under the influence of surface water requires a higher level of filtration and disinfection. Also, the treatment plant allows Auburn the long-term option to tap into the existing Nemaha wellfield near Nemaha, NE within the Missouri River alluvial aquifer. The treatment plant doesn't remove nitrates from the groundwater, therefore, nitrates remain a significant concern of the BPW.

The original water treatment plant was constructed in 1941 with a capacity of 600 gallons per minute (GPM), and was expanded in 1989 to 1,200 GPM with the installation of additional filters. All of the water in the Auburn system is treated and stored in a clear well consisting of two water storage units with a capacity of 335,000 gallons at the existing water treatment plant. From there, water is pumped and stored at the above ground storage unit of 1.5 million gallons. Two water pressure distribution systems move water around Auburn's hilly terrain. All water use is controlled and metered, with users being billed based upon usage. Tables 3 through 6 below display the general system summary for the Auburn water system. Auburn's Consumer Confidence Report, completed last in 2016, is available along with the most recent Sanitary Survey completed on July 22, 2016 in Appendix B.

General System Information:			
Population Served: 3,460	Total Number of Meters Connected: 1,700		
Residential: 1,497 Rural: 1 General Service:	383		
System Interconnections: None	Address of Treatment Plant: 603 9th Street		
Average Daily Production: .462 MGD	Peak Daily Production: .706 MGD		
Total Emergency Production: 2.4 MGD	Total Design Capacity: 2.0 MGD		
Total Annual Production: 168 MG	Total Storage Capacity: 0.335 MG Water Treatment		
	Plan; Reservoir 1.5 MG		
Average Summer Demand: .557 MGD	Average Winter Demand: .374 MGD		

Table 3.Auburn General Water System Information

*Million gallons per day (MGD) * Million gallons (MG) Source: 2016 Emergency Plan

Name	Contact	Phone Number		
Major Water User Severed by the S	System:			
Ariens Inc		402-274-8600		
NPPD		402-825-3811		
Westbury Heights Apartments		402-274-4017		
Auburn Public Schools		402-274-4830		
Magnolia Metal Corporation		402-274-3152		
Medical Water User:	Medical Water User:			
Nemaha County Hospital		402-274-4366		
Family Medical Clinic		402-274-4993		
Elder Housing Units:				
Auburn Housing Authority		402-274-4525		
Good Samaritan Home		402-274-5541		
High Rise Apartments		402-274-4525		
Long Creek Village		402-274-5511		

Table 4. Institutional, Commercial, and Industrial Water System Consumers

Table 5. System Contact Information

System Contact Information: Mailing Address: PO Box 288 Physical Address: 1600 O Street City / State / Zip: Auburn / Nebraska / 68305 System Phone Number: 402-274-4981 System Fax Number: 402-274-4991 System E-Mail: bpw@auburnne.net Water System Owned By: City of Auburn Operated By: Board of Public Works Governing Body: Board of Public Works **Administrative Contact Person:** David Hunter General Manager Phone: 402-274-4981 (Work) 402-274-3680 (Home) **Financial Contact Person:** Wende Bergmeier Office & Financial Manager Phone: 402-274-4981 (Work) 402-868-5165 (Home) **Operational Contact Person:** Ken Swanson Water / Waste Water Manager Phone: 402-274-4981 (Work) 402-868-6675 (Home) Legal Contact Person: Angelo Ligouri City Attorney Phone: 402-274-5484 (Work) **Engineering:** JEO Consulting Group - 402-873-6766; HDR Engineering 402-742-2900

Operational Information:			
Operator in Responsible Charge: Ken Swanson	Title: Manager Water / Waste Water		
Certification Grade: 1 2 3 4 5	Certificate #: 378		
Expiration Date: 12/31/2017 Home Address: 72945 633 Ave., Auburn, NE 68305			
Phone Number: 402-274-4981	Cell Phone Number: 402-274-7437		

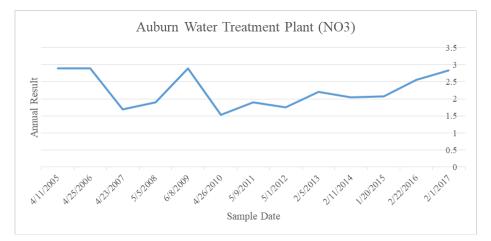
Table 6.Auburn Public Water Supply Well Information

Local Well Name	Registration Number	Well Depth (feet bg)	Year Completed	Aquifer
Well No. 1	G-067034A	50.0	1981	Little Nemaha River Aquifer
Well No. 2	G-067034B	47.5	1981	Little Nemaha River Aquifer
Well No. 3	G-067034C	54.0	1981	Little Nemaha River Aquifer
Well No. 4	G-067034D	46.5	1981	Little Nemaha River Aquifer
Well No. 5	G-067034E	40.0	1981	Little Nemaha River Aquifer
Well No. 6	G-067034F	44.0	1981	Little Nemaha River Aquifer
Well No. 7*	G-072068	45.0	1989	Little Nemaha River Aquifer
Well No. 11	G-063101D	47.0	1946	Little Nemaha River Aquifer
Well No. 13	G-126226	48.0	2003	Little Nemaha River Aquifer
Well No. 18	G-063102A	46.0	1966	Little Nemaha River Aquifer
Well No. 19	G-063102B	45.0	1964	Little Nemaha River Aquifer
Well No. 20	G-063102C	46.2	1966	Little Nemaha River Aquifer

* Well No. 7 collapsed and is no longer in use.

2.2. Existing Water Quality

The BPW samples the water system on an annual basis as required by NHHS. Samples are collected from a blend of several wells from at the water treatment plant, which does not treat raw water for nitrate. Data shows that overall the water system does not have a concern with nitrates (see Figure 2). However, Well #4 and Well #11 are monitored by the BPW on a regular basis for high nitrates. Well #4, according to BPW data, has averaged 7.4 ppm NO3 since 2012, while Well #11 has averaged 6.5 mg/L. Random sampling of Longs Creek near Well #11 has raised concerns that runoff in Longs Creek may be attributing to the sporadic elevated NO3 level. It is unknown why Well #4 experiences elevated NO3 levels as nearby Wells 3,5, and 6 maintain a relatively low nitrate concentration. Figure 3 displays the most recently reported sample for wells within NDEQ's nitrate clearinghouse using only data from 2004 to 2013.





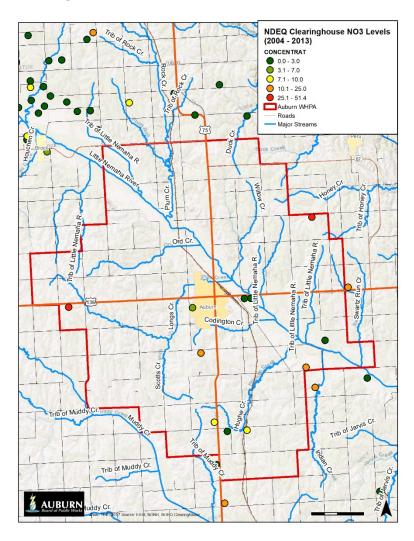


Figure 3. Auburn PWS Historical NO3 Levels

Auburn, like many Nebraska communities, relies on groundwater within an area that is intensely used for agriculture, which in turn raises the likelihood that the source is more vulnerable to contamination from pollutants, especially nitrates. This is primarily due to the use of commercial fertilizer and animal feeding operations within the WHP Area and the thin layer of protective material over the alluvial aquifer.

The Environmental Protection Agency (EPA) created a model to determine the general vulnerability for groundwater contamination as part of the *DRASTIC* model (EPA, 1987), which stands for: **D**epth to the water table, **R**echarge (amount of water that percolates down into the aquifer), **A**quifer media, **S**oil media, **T**opography (slope), **I**mpact of the vadose zone (time required for water to percolate through the unsaturated zone between the surface and the water table), and Conductivity (hydraulic conductivity of the soil). This model is not intended for site-specific vulnerability assessments, but instead to provide a regional prospective. Figure 4 illustrates the DRASTIC index around the Auburn WHP Area, which lies in an area that varies from 'low' to 'high'. Based on the DRASTIC model, the Auburn WHP area has areas that are very vulnerable to groundwater contamination.

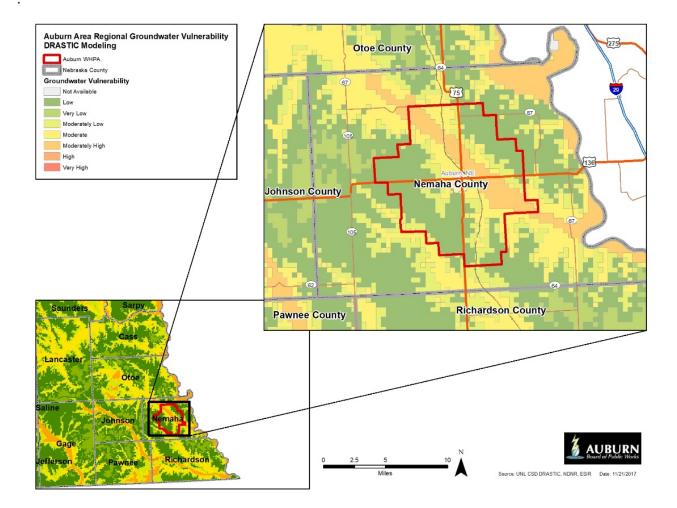


Figure 4. Auburn DRASTIC Model Regional Groundwater Vulnerability.

CHAPTER 3 - AUBURN WELLHEAD PROTECTION AREA

3.1. Past WHP Areas

Auburn's WHP Area map was delineated by NNRD and approved by NDEQ in August 2000. This map covered 3,936.5 total acres immediately around Auburn. The first map was updated in September 2009 by NDEQ using newer modeling software, better information, and included the new well #13. NDEQ used the modeling software called Wellhead Analytic Element Model (WhAEM) 2000, created by the US Environmental Protection Agency. WhAEM was designed to delineate capture zones and assist states in creating WHP areas protection maps . WhAEM uses geohydrologic modeling for steady pumping wells, including the influence of hydrological boundaries, such as the Little Nemaha River; annual recharge estimation, and no-flow boundaries, such as the local geological formations of bedrock.

WHP Areas are statutorily recognized as a boundary in which a community can manage potential contaminant sources though the WHP program. Boundaries typically encompass 20-year time-of-travel pathways and are defined along visible or recognizable features such as roads, rivers, sections lines, and parcels. Auburn's 2009 WHP Area covered 20,832 acres, including the City's entire corporate limits.

3.2. 2017 WHP Area Delineation

The WHP Area was updated in 2017 by Leggette, Brashears, & Graham (LBG) as part of the planning process to develop Auburn's Drinking Water Protection Management Plan. The City of Auburn officially recognizes the WHP Area and cooperates with Nemaha County in to protect Auburn's drinking water sources though an Interlocal Agreement, which has established the Auburn WHP Overlay Zone (found in Appendix A). Two methods were used to define the WHP area for the City wells. The first method included establishing a detailed conceptual hydrogeologic model to create a model boundary for the numerical groundwater model code MODFLOW that will delineate groundwater capture zones in the Little Nemaha River Aquifer. One product of the conceptual hydrogeologic model are cross sections, two of which are shown in Figures 5 and 6 (LBG, 2017).

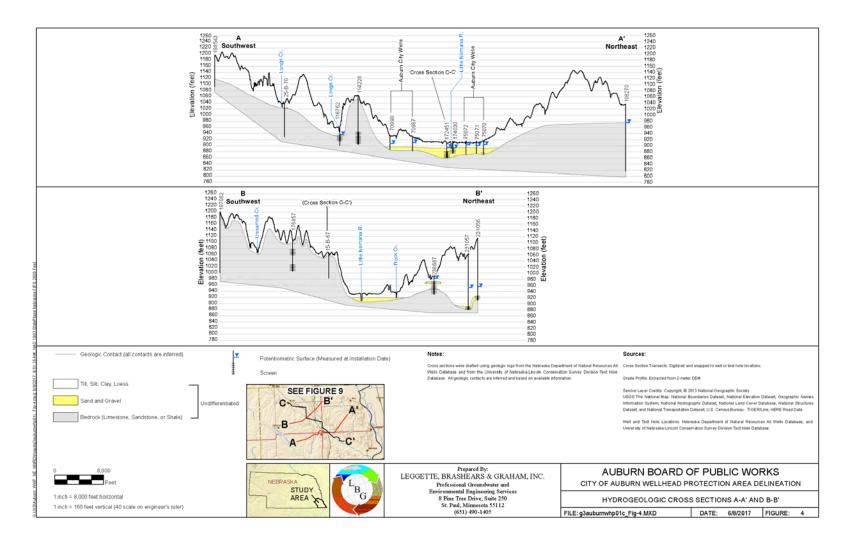


Figure 5. West to East Cross Sections of the Alluvial Aquifer

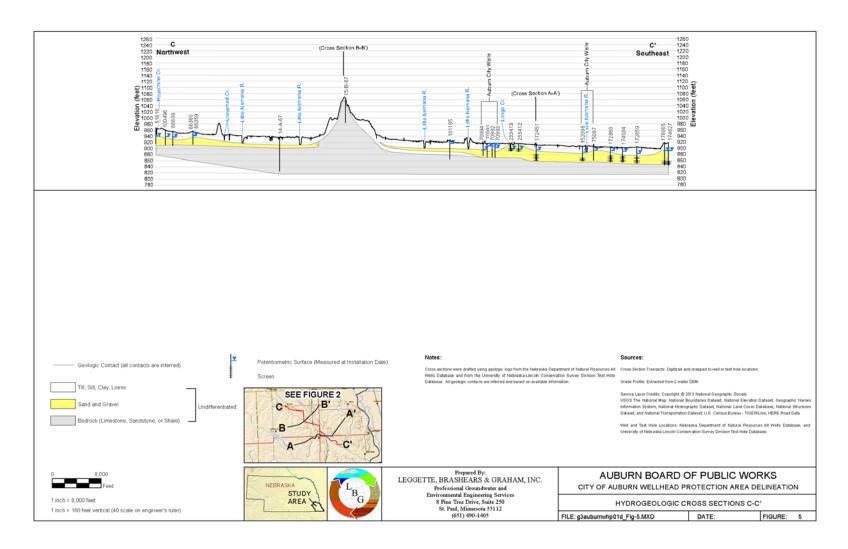
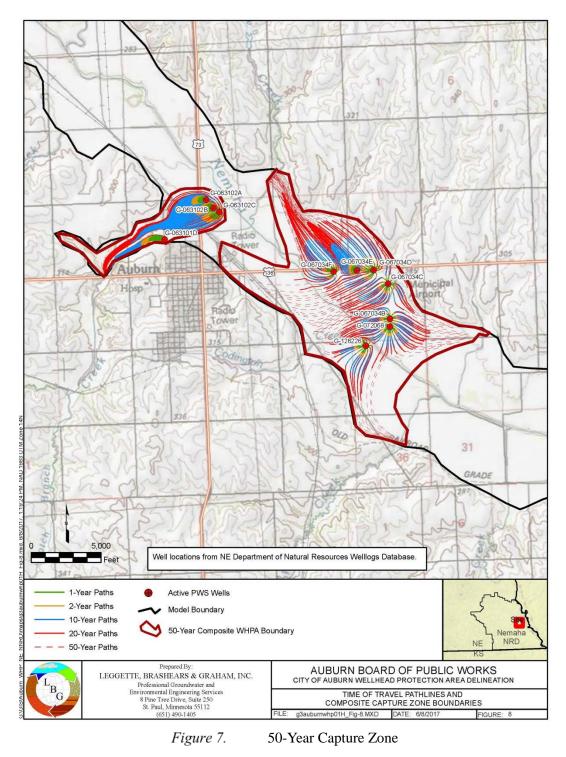


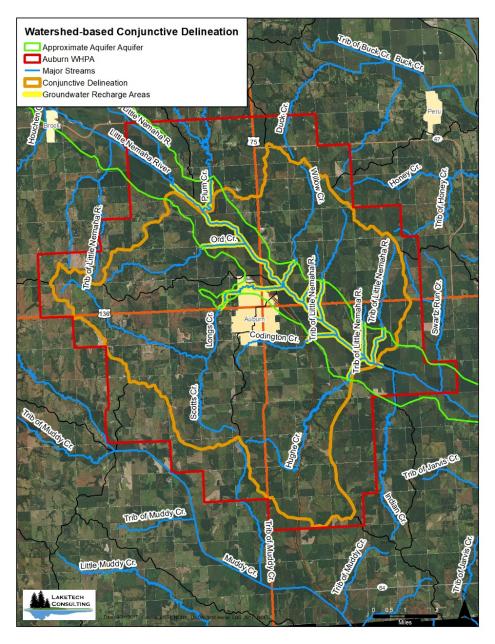
Figure 6.

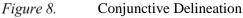
Northwest to Southeast Cross Section of the Alluvial Aquifer

Capture zones were based on a 50-year time of travel for each well, rather than the typical 20-year time of travel. The MODFLOW model was built, calibrated, and then modified to account for uncertainty related to the various input parameters (LBG 2017). The 50-year capture zone is shown in Figure 7. The model boundary was drawn to the outside extent of the alluvial aquifer because the amount of groundwater flow from the silt and clay is orders of magnitude lower than the groundwater flow in the valley.



The second method was using a conjunctive delineation, based on the known connection between the alluvial aquifer and several streams in the area, to delineate the actual WHP Area. A conjunctive delineation outlines areas where surface water contributes to the groundwater reaching a well. When an analysis indicates that water extracted from a well is potentially coming from a nearby surface water body, the area that contributes water to that feature, or a portion thereof, is generally included in a conjunctive area as contaminants within this area have a direct path to the pumping well (LBG 2017). More details on the conjunctive delineation can be found in the 2017 DWPP and a description of this process is illustrated in Figure 8. In order to concentrate efforts on a local and more manageable area, the conjunctive delineation did not include the entire Little Nemaha River watershed.





The final WHP Area is a composite of all the areas identified as potentially contributing recharge to the aquifer used by the City wells and includes the entire 50-year time of travel. The new WHP Area totals 51,400 acres and was drawn in ArcMap using parcel boundaries and roads close to the watersheds included in the conjunctive delineation as illustrated in Figure 9.

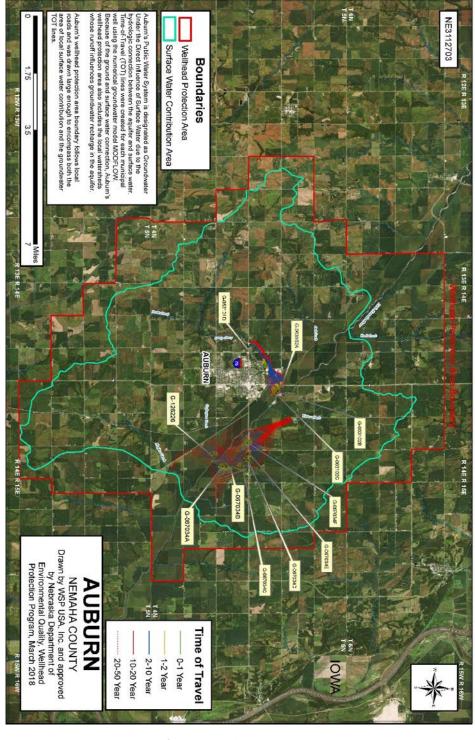


Figure 9. Auburn 2017 WHP Area

3.3. Wellhead Protection Area Land Cover

Land cover information provided below was taken from the 2017 DWPMP. The United States Department of Agriculture (USDA) National Agricultural Statistics Service (NASS) CropScape-Cropland Data Layer online platform was used to obtain land cover information (LakeTech 2017). A cover change analysis was performed by comparing cropped acres from 2009 to 2016. Cropped acres are all agriculturally related activities that involve annual seeding (i.e., corn, soybeans, wheat, etc.). All other categories are considered non-cropped. This analysis was performed on the entire WHP Area (see Table 7), and on the approximate area of the alluvial aquifer that is within the WHP Area (see Table 8). The 2016 land cover for the entire WHP Area, which also displays the approximate alluvial aquifer, is illustrated in Figure 10. Approximately 5,020 acres have been converted to row crop over an eight year period, or 9.7% of the total area. Conversion of ground to row crop is an important consideration when establishing a management strategy.

				%
Land Cover	2009	2016	Difference (Ac.)	Change
Crop Farming	32,473	37,614	5,141	16%
Non Crop	18,854	13,834	-5,020	-27%

Table 7.WHP Area Land Cover Change (2009 to 2016)

Source: NASS (2017).

Table 8. Aquifer Boundary within WHP Area Land Cover Change (2009 to 2016)

Land Cover	2009	2016	Difference (Ac)	% Change
Crop Farming	6,126	6,778	652.3	11%
Non Crop	2,180	1,547	-633.2	-29%

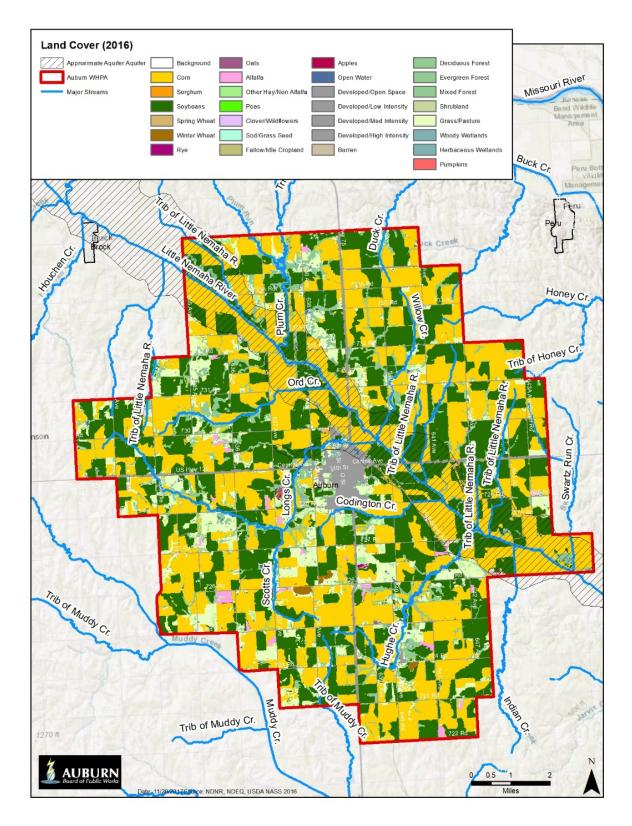


Figure 10. 2016 NASS Cropland Data Layer

3.4. Contaminant Source Inventory

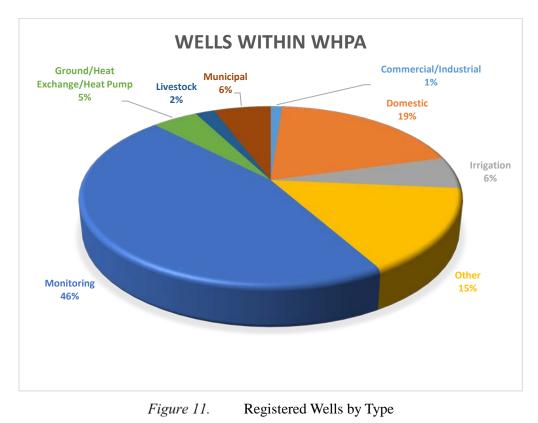
As described previously, a CSI involves locating and documenting activities, structures, and locations that may pose a threat to drinking water. Auburn's CSI is a compilation of multiple sources as described below:

- Auburn BPW CSI Compilation of all previous CSI into one GIS, including an update of new areas included in 2017
- State Fire Marshall database listing above and below ground storage tanks (from the 2009 WHP Plan)
- NDEQ Facilities Summary provided in 2017

3.4.1. Auburn BPW Field and Desktop GIS CSI

The CSI is a major step in establishing a WHP Plan and includes recording locations and information on potential contaminant sources such as fuel storage, onsite wastewater systems, illegal wells, and many others. The original field inventory was completed using a tablet PC with GIS software and aerial photography as a CSI geodatabase that collected data on potential contaminant sources identified in the field. All sites were georeferenced through parcel data provided by Nemaha County. Sites within the new WHP Area were acquired by a field review conducted by the BPW and a desktop review within GIS. A full description of Auburn's CSI is found below is a series of five maps. To inquire about details at sites within the CSI contact the BPW's Office at 1600 O Street in Auburn.

Wells are another key potential contaminant source. A total of 261 active registered wells are found in the WHP Area (see Figure 11). Of those, 120 (or, 46%) are monitoring wells. Due to the limited capacity of the alluvial aquifer, and tight soils within the uplands, there are very few irrigation wells. Auburn has maintained a strong effort to decommission abandoned wells.



There are four figures (Figure 12 - 15) representing the expansive rural areas of the WHP Area and one figure showing the corporate boundaries (Figure 16). Field sheets were not used to collect data on potential contaminant sources as all information is stored within the GIS. Tables including CSI data are found in Appendix C.

There were a total of 499 potential contaminant sources within the compilation CSI GIS database. The majority of the sites were residences, 314 total, or 63%, which doesn't count homes within the city limits on sewer. It can be assumed that each of these sites has an onsite wastewater system, however the functioning condition of each system was not evaluated as part of the CSI. A total of 156 of the residences were farmsteads, or 31.2% of the total within the CSI and 158 were acreages at 32%. Farmsteads with what appeared to be active livestock operations were also flagged as another potential CSI with a total of 40 operations, or 8% of the total. There were a total of 17 automotive services (8%), nine machine shops (2%, not counting every farm shop).

Based upon the CSI, the priority for the BPW is any potential contaminant in the Little Nemaha River Valley due to the location of the wells within the thin sand and gravel alluvial aquifer. Other priority includes failing septic systems and runoff from livestock operations which contributes to nutrients and bacteria in stormwater runoff.

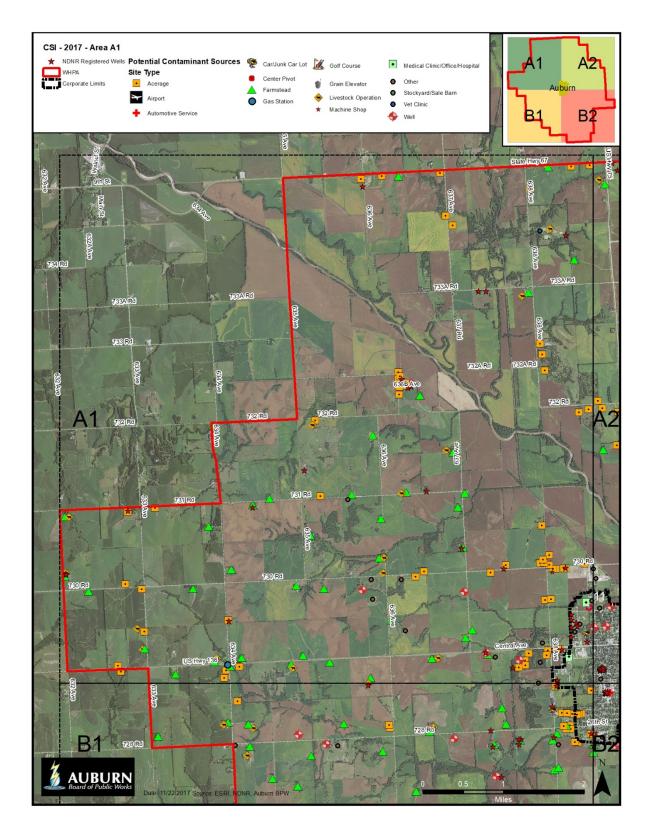


Figure 12. Auburn CSI Area A1

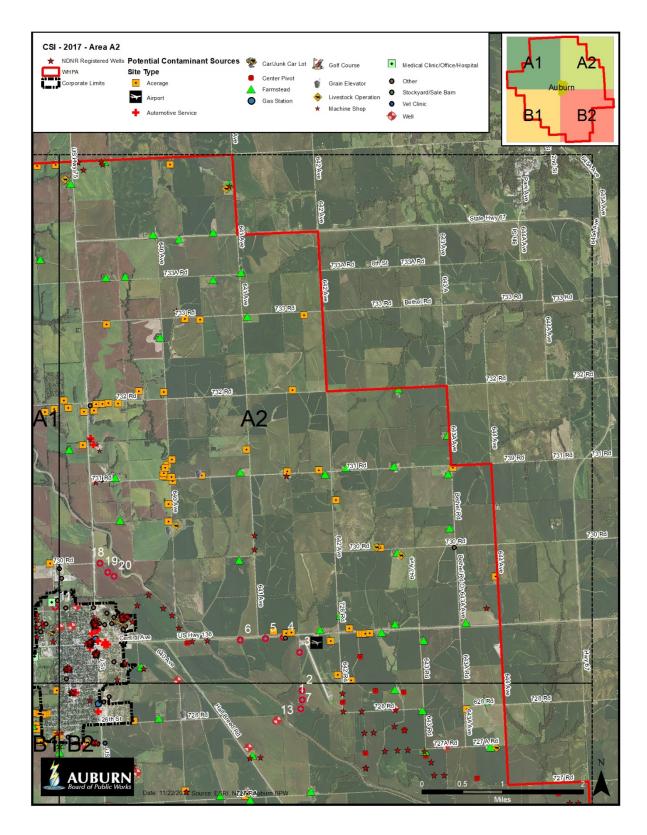


Figure 13. Auburn CSI Area A2

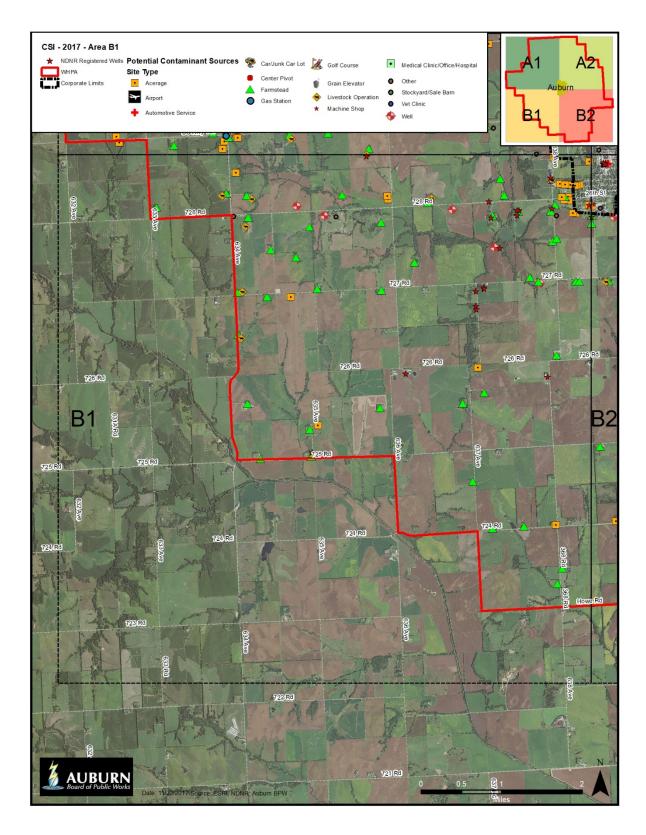


Figure 14. Auburn CSI Area B1

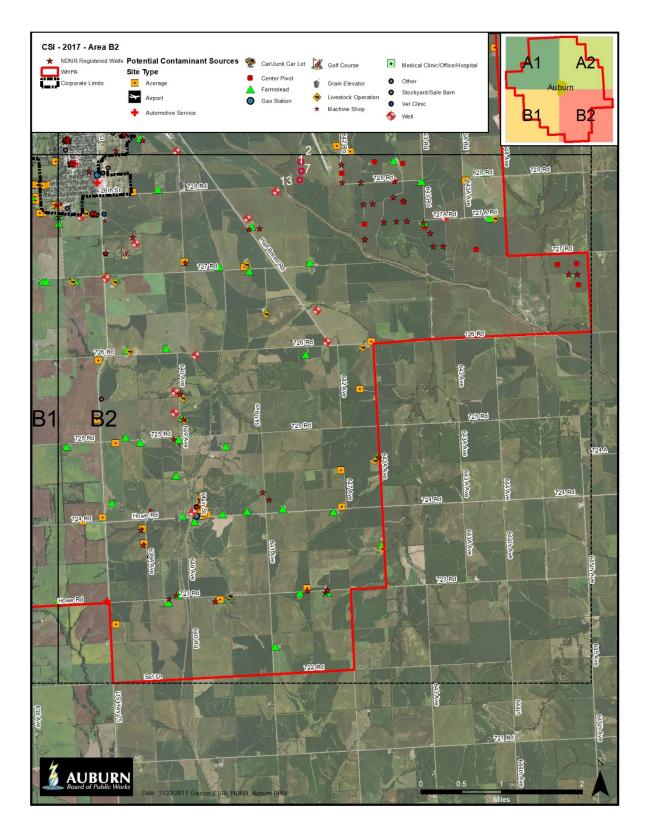


Figure 15. Auburn CSI Area B2

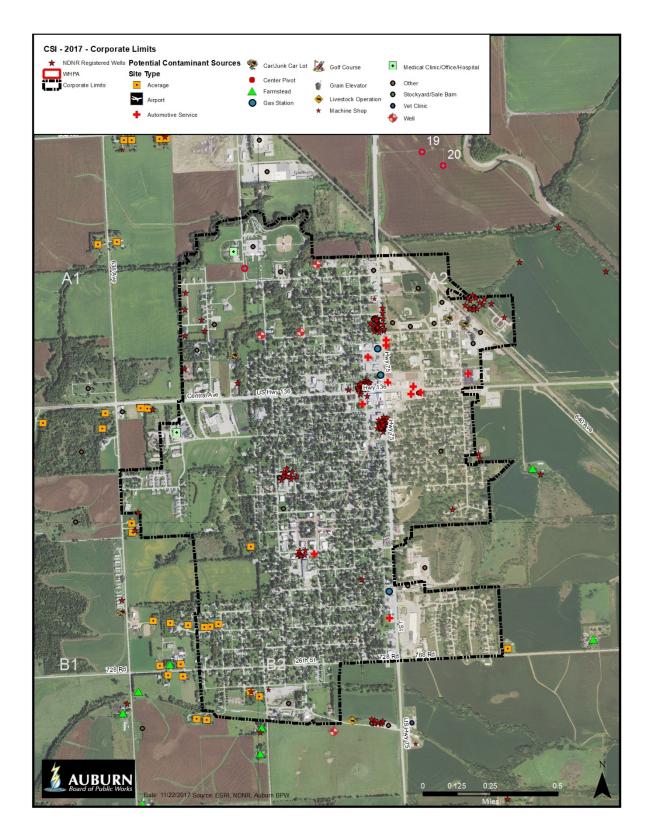


Figure 16. Auburn CSI Corporate Boundary

3.5. Above and Below Ground Storage Tanks

Information from the 2009 WHP Plan from the Nebraska State Fire Marshall database was used to identify above and below ground storage tanks. Figure 17 illustrated the locations of tanks within the Auburn WHP Area. There are a total of 10 known aboveground fuel tanks within the NDEQ database and 33 know underground fuel tanks. More information on all of these facilities is found in Appendix C.

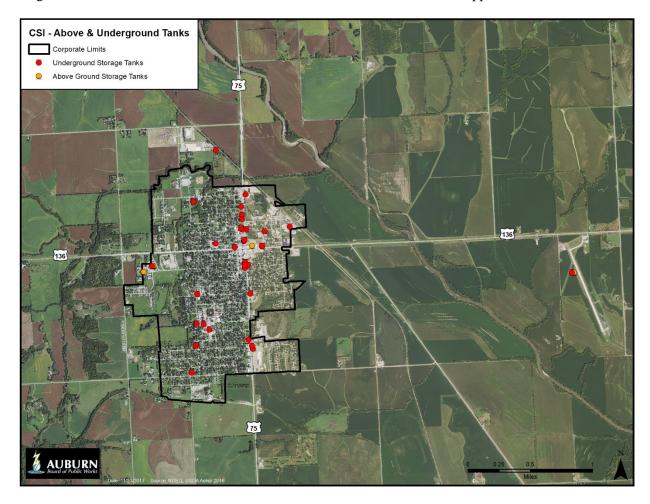


Figure 17. Above and Below Ground Fuel Tanks

3.6. NDEQ Facility Summary

In 2017, NDEQ provided a written summary of the status of relevant facilities within the WHP Area. Figure 18 has been provided to show the location of each NDEQ facility.

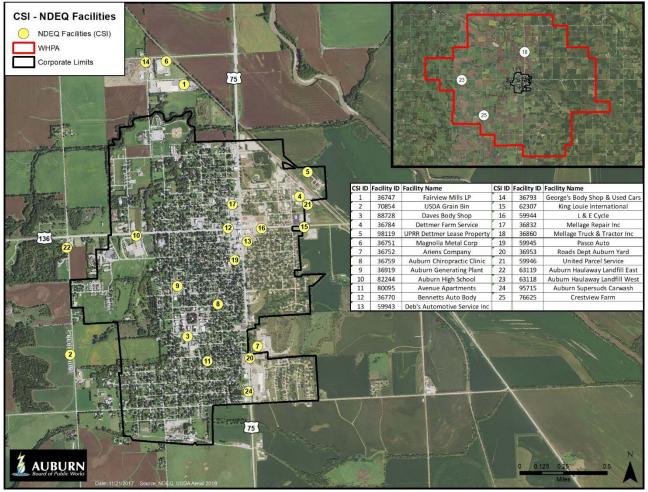


Figure 18. NDEQ Facilities

CHAPTER 4 - MANAGEMENT STRATEGIES

4.1. Comprehensive Management Strategy

Within the 2017 DWPMP, the BPW has established a comprehensive management strategy to layout the framework for on-the-ground actions to protect the drinking water source into the future. This plan is available at the BPW Office. Establishing a watershed based management plan was a goal within the 2009 WHP Plan that has since been achieved. Refer to the 2017 DWPMP to learn more about water quality and quality project goals. Implementation recommendations as listed within the 2017 DWPMP are provided below (LakeTech 2017).

- 1) Work with NNRD and the NRCS to make the Auburn WHP Area an NRCS Environmental Quality Implementation Program (EQIP) priority area.
- 2) Continue a long-term partnership with NNRD through their WHP Pilot Program.
- 3) Work with the NNRD on long-range water quality improvement strategies as a 'priority area' identified in the Nemaha River Basin Water Quality Management Plan (Basin Plan).
- 4) The DWPMP, established the Longs Creek watershed as the priority sub-watershed for focusing conservation efforts to reduce nutrient loading to the stream. Longs Creek watershed was shown to yield the highest nutrient load and is near two municipal wells, each of which have high nitrate concentrations.
- 5) Update and submit the Auburn WHP Plan to NDEQ for state approval including recognition of the 2017 DWPMP within the WHP Plan, and vice versa.
- 6) Conduct a feasibility study to understand the cost and benefits of installing grade control structures in recharging streams for purposes of artificial groundwater recharge and stream bank stabilization.
- 7) Work with the Nebraska Department of Transportation on acquiring the 19-acre borrow pit north of Longs Creek, west of Highway 75, for purposes of wetland enhancement, groundwater recharge, and establishment of an outdoor classroom.
- 8) Establish an adaptive management approach through the assessment of water quality and water quantity data to formulate a detailed strategy for additional projects after the initial four-year effort is complete.
- 9) Identify primary drainage paths within the City and construct bioswales, wetlands, or similar types of green infrastructure that trap, treat, and infiltrate stormwater runoff.
- 10) Educate property owners and lawn care professionals on proper ways to fertilize and manage lawns to reduce the quantity of fertilizer overall.
- 11) Utilize the 2017 DWPMP, and the NNRD's Basin Plan, to obtain various forms of funding to leverage local funding sources, or existing programs such as NRCS's EQIP.
- 12) Continue closing abandoned wells within the WHP Area.

- 13) Establish an onsite wastewater upgrade program intended to provide technical and financial support for property owners to ensure systems are functioning property. Target all failing systems within the WHP Area.
- 14) Erect signage to advertise to the public the efforts the BPW is taking to improve the health of the area watersheds.
- 15) Recognize the BMP goals within the 2017 DWPMP based on target installation recommendations.

4.2. Public Education and Involvement

The Stakeholder Group was responsible for providing input on a public education and involvement strategy for both the DWPMP and this plan. Education will lead to action. Auburn has continued to provide opportunities to educate all ages of citizens and property owners in and around the area about the importance of source water protection. Public education efforts in the future may include: focus groups, open houses, press releases, newsletters, websites, and other methods. Education topics to Auburn residents, businesses, and agricultural producers may include the following:

- 1) Water conservation,
- 2) Well decommissioning,
- 3) Importance of upgrading onsite wastewater systems,
- 4) Availability of cost-share and incentives for conservation practices,
- 5) Household hazardous waste disposal,
- 6) Providing information on the limited aquifer and vulnerability of the aquifer,
- 7) Benefits of urban practices such as bioswales, rain gardens, and rain barrels, and;
- 8) Environmental education.

4.3. Traditional WHP Plan Management Strategies

There are many standard management strategies that communities utilize to protect their drinking water source through management of potential contaminant sources. Below is a list of those strategies with a summary of past management practices completed since the 2009 WHP Plan.

Continuously Update CSI – The BPW will utilize GIS to regularly update the CSI as changes occur within the WHP Area.

Decommission Abandoned Wells – The BPW has decommissioned over 35 abandoned wells since 2001 and two monitoring wells, and continues to expand efforts to locate and decommission abandoned wells in and around the WHPA, in cooperation with NDEQ and Nemaha Natural Resources District.

Wellhead Protection Overlay Zone – The City has enacted a WHP overlay zone to allow for oversight of activities in the WHP Area beyond the City's extra-territorial jurisdiction (ETJ). The WHP ordinance would replace the existing rules as found in Auburn Municipal Code 3-743 and can be found in Appendix A. At the time of the planning period Nemaha County did not have zoning.

Wellhead Protection Area Signage – The BPW has posted WHP Area signs at the boundary of the area to provide education on the importance of drinking water protection. These signs can be supplemented with

information regarding the enforcement of land use regulations and directing property owners to contact the City of Auburn rather than the County.

Community Water Conservation Programs – Auburn will continue to pursue water conservation programs and incentives to limit water use in the city. Currently the City waters Auburn City Recreation Complex from Longs Creek. Other examples of these types of practices include provide no-cost equipment necessary to reduce water use from showers and toilets, promote rainwater harvesting, promote native vegetation in landscapes, and provide education on adequate frequencies of lawn watering.

Security Lighting – Auburn BPW has installed security lighting around the existing water reservoir and motion lights at each well house. Auburn BPW will continue to increase all levels of security at water production facilities.

Source Water Management Geographic Information System – As part of its regular GIS utilization, the BPW intends on continuing the use of GIS to manage and track potential contaminants. The GIS will include all potential contaminant sources, wells, and onsite wastewater systems. Auburn BPW intends to create a database of all exiting septic systems, including date of installation, system type, capacity, and many other attributes. The GIS will be updated on a regular basis.

Household Hazardous Waste Collection – The BPW continues to annually participate in a household hazardous waste collection program focused on reducing the number of potential contaminants in the WHP Area.

Soil Sampling – Deep soil sampling (36 inches in depth) enables producers to better manage fertilizer application by knowing what exists in the full crop root zone. Auburn will consider working with NNRD to create incentives for producers to perform deep soil sampling and ultimately reduce the nitrate introduction into the source aquifer.

Conservation Practices – A wide variety of conservation practices are available through the NRCS and NNRD. Practices such as the Conservation Reserve Program (CRP), buffer strips, filter strips, no-till, cover crops, and many others can help reduce pollutant loading to the alluvial aquifer. Auburn can encourage rural WHP Area landowners to sign up through the NRCS's EQIP program, as recommended in the 2017 DWPMP. In many cases, property owners in a WHP Area receive additional payment for conservation practices because they are within a target area. Auburn's 2017 WHP Area was declared a priority area for EQIP by NRCS in 2017.

On-site Wastewater Management and Planning – The BPW will work with property owners to ensure new onsite wastewater treatment systems are installed correctly, that existing systems are working property, and that illegal or abandoned systems are either properly closed or repaired to be compliant with NDEQ Title 124. Using NDEQ certified and trained staff, the BPW will be proactive in updating the GIS and databases to have an up-to-date inventory of all onsite wastewater systems in the WHP Area.

CHAPTER 5 - REGULATORY AUTHORITY

5.1. Nemaha County

Nemaha County does not have zoning code, therefore it is important for the City to continue using land control tools such as ordinances to protect the drinking water supply. If Nemaha County does enact zoning in the future, the best scenario for the City would be to amend language in the Nemaha County Zoning to establish an overlay zone to protect the source of drinking water. This approach allows all communities to take advantage of a consistent regulatory strategy and would involve significant community-county cooperation to develop the appropriate strategy, and may involve an Interlocal Agreement for enforcement.

Nebraska's legislature has created numerous statutes that allow local jurisdictions to protect public health and safety. NDEQ administers the wellhead protection program and provides technical assistance to any controlling entity designating a WHP Area and adopting controls to limit potential threats to the public water supply.

5.2. Wellhead Protection Statutes

State statues and laws are summarized below.

Sections 46-1501 to 46-1509 shall be known and may be cited as the Wellhead Protection Area Act.

46-1502 - Terms defined

For purposes of the Wellhead Protection Area Act:

(1) Controlling entity means a city, a village, a natural resources district, a rural water district, any other entity, including, but not limited to, a privately owned public water supply system, or any combination thereof operating under an agreement pursuant to the Interlocal Cooperation Act or the Joint Public Agency Act that operates a public water supply system; (2) Department means the Department of Environmental Quality;

(3) Director means the Director of Environmental Quality; and

(4) Wellhead protection area means the surface and subsurface area surrounding a water well or well field, supplying a public water system, through which contaminants are reasonably likely to move toward and reach such water well or well field.

46-1503 - Wellhead protection area; designation

Any controlling entity may designate a wellhead protection area and adopt controls pursuant to the Wellhead Protection Area Act for the purpose of protecting the public water supply system. The department shall provide technical assistance to any controlling entity designating a wellhead protection area and adopting controls pursuant to the act.

46-1504 - Wellhead protection area designation; controlling entity; duties

Any controlling entity proposing to designate a wellhead protection area and adopt controls shall:

(1) Designate the boundaries of the wellhead protection area following the procedure in section 46-1505. The wellhead protection area shall be based on all reasonably available hydrogeologic information on ground water flow, recharge, and discharge and other related information necessary to adequately determine the wellhead protection area for the purposes stated in this section:

(2) Identify within each proposed wellhead protection area all potential sources of contaminants which may have any adverse effect on the health of persons;

(3) Describe a program that contains, as appropriate, technical assistance, financial assistance, implementation of controls, education, training, and demonstration projects to protect the water supply within the wellhead protection area from such contaminants;

(4) Include contingency plans for the location and provision of alternate drinking water supplies for each affected public water supply system in the event of water well or well field contamination by such contaminants; and

(5) Propose the controls necessary to provide protection from contaminants which may have any adverse effect on the health of persons served by the public water supply system of each participating controlling entity.

46-1505 - Proposed wellhead protection area; public notice and comment

The controlling entity shall publicize proposed boundaries for the wellhead protection area and the proposed controls and shall provide time for public comment at one or more regularly scheduled public meetings of the governing board of the controlling entity. Notice of the time for public comment shall be published in conjunction with notice of such regularly scheduled meeting. A description of the proposed boundaries and the text of the proposed controls shall be available at the office of the controlling entity for thirty days before such meeting. Persons shall be given the opportunity to speak on the proposed designation and the proposed controls or to submit written testimony for consideration by the controlling entity.

46-1506 - Boundaries of wellhead protection area; designation; procedure

Within sixty days after the last time for public comment under section 46-1505, the controlling entity shall make a final designation of the boundaries of the wellhead protection area and the controls necessary to protect the water in the wellhead protection area and shall submit them to the director for approval or disapproval. Such approval shall be based on whether the boundaries of the wellhead protection area are reasonably defined, the controls are reasonably related to the purpose of ground water protection in the area, and such approval is in the public interest. The director shall act on the proposed designation of boundaries and proposed controls within ninety days after the date the proposals are received by him or her.

If the director approves the proposed boundaries and controls, he or she shall so notify the controlling entity, but the boundaries and controls shall not be deemed effective until the controlling entity has adopted such boundaries and controls by ordinance or resolution. If the director disapproves either or both of the proposals, he or she shall return the proposals to the controlling entity with an explanation of the reasons for such disapproval. The controlling entity may revise such proposed designation of boundaries and proposed controls, submit the revised proposed designation of boundaries and proposed controls, submit the revised proposed designation of boundaries and proposed controls.

If the director does not act on either the original or revised proposed designation of boundaries and proposed controls within ninety days after submission by the controlling entity, the proposed designation of boundaries and proposed controls shall be deemed approved by the director.

46-1507 - Existing wellhead protection areas; effect of act

Any wellhead protection area established before July 15, 1998, by resolution or ordinance of the controlling entity need not be reestablished under the Wellhead Protection Area Act unless controls are proposed. If such controls are proposed, the controls and the boundaries of the wellhead protection area are subject to the requirements of sections 46-1504 to 46-1506. Any wellhead protection area purported to have been established before July 15, 1998, other than by official action of a controlling entity shall be null and void beginning nine calendar months after July 15, 1998, unless reestablished by resolution or ordinance of the controlling entity.

46-1508 - Designated wellhead protection area; boundary area changes

A designated wellhead protection area may be amended as to boundaries and controls as provided for in the initial designation of a wellhead protection area in the Wellhead Protection Area Act.

46-1509 - Environmental Quality Council; rules and regulations

The Environmental Quality Council shall adopt and promulgate rules and regulations to carry out the Wellhead Protection Area Act.

5.3. Nemaha Natural Resources District

The NNRD has numerous programs and planning efforts that will benefit Auburn and all of the communities within the NRD. Below is a summary of the tools available from NNRD.

5.3.1. Ground Water Management Plan

NNRD regulates groundwater for quality, quantity, and also permits new well construction. Nemaha NRD established a groundwater management plan in 1986 (being updated in 2018) to create rules and guidelines to encourage best management practices to help prevent possible groundwater contamination. The plan was authorized by Nebraska Revised Statute Chapter 46, Article 6, Section 73.01. The plan was updated in 1995 to amend the management strategy to identify, manage, and establish goals concerning groundwater quality. In 1999, the entire District was placed into a Phase I Groundwater Management Area due to elevated nitrates.

NNRD also regulates the uses related to groundwater quantity. A portion of the NRD was placed into a Phase II Groundwater Quantity Management Area (GWQMA) designation based upon the thickness of the principle aquifer, which includes the Auburn WHP Area. Any areas designated absent or very thin are automatically designated as a Phase II GWQMA. These areas are regulated as described in the NRD groundwater management plan, Chapter 9, as listed below. The entire Auburn WHPA is located in Nemaha NRD's Groundwater Quantity Management Area Phase II.

CHAPTER 9 – PHASE II GROUDNWATER QUANTITY MANAGEMENT AREA DETERMINATION AND REQUIREMENTS

- 9.1 Phase II Groundwater Quantity Management Area (GWQMA) The District will initiate the following actions when the Determination of District Groundwater levels indicates the static water level elevation has decreased by 15% or more below the upper elevation of the saturated thickness for any well in the Observation Well Monitoring Network for a two consecutive year period. When this trigger is actuated, the NRD will take the following actions:
 - 9.1.1 Increase the number of wells monitored in the area to determine the extent of the problem, to serve as a basis for triggering a Phase II GWQMA, and to obtain the hydrogeologic information necessary to delineate a Phase II GWQMA. The intensified monitoring program described below applies to the entire District. The actual monitoring program for each problem area may vary according to the local hydrogeologic characteristics of the area.
 - 9.1.2 The District will determine an initial area to be monitored. The shape and size of the area will change as more information is gathered. A minimum area of 9 square miles will be monitored.
 - 9.1.3 The minimum number of monitoring sites will be 50% of the number of registered irrigation wells in the area that are suitable for use as groundwater level observation wells (taking into account criteria such as quality of well construction, total well depth and screened intervals). The District will also consider using registered industrial, livestock, monitoring, observation, public water supply, and domestic wells that would be suitable as monitoring sites.
 - 9.1.4 Develop a localized groundwater model to further delineate the area to be monitored.
 - 9.1.5 Install dedicated observation wells as deemed necessary to collect additional geologic and static water level data.
- 9.2 All Phase I GWQMA requirements to collect additional geologic and static water level data.
- 9.3 All new permitted wells approved and constructed will be added to the District's observation well network.
- 9.4 All new permitted wells are required to have a fully functional flowmeter installed.
 - 9.4.1 The flowmeter must be equipped with a totalizer gauge that reads acre inches and a flowrate gauge that reads in gallons per minute.
 - 9.4.2 Total annual groundwater withdrawal reports will be required by December 31st for the year.
- 9.5 All existing wells pumping greater than 50 GPM are strongly encourages to install a flowmeter.

For a complete copy of the NRD Groundwater Management Area Rules and Regulations contact the NRD at (402) 335-3325.

In addition to the groundwater management plan regulations, the NRD was granted authority to regulate new well permits for any new construction designed for greater than 50 gallons per minute, including a stay on new well construction for a 180-day period in 2009, while groundwater appropriation determinations were made by the Nebraska Department of Natural Resources for the District. The stay was lifted after February 1, 2009.

5.3.2. Abandoned Well Program

Nemaha NRD provides 75 percent cost-share (up to \$500 for drilled wells or \$700 for hand dug wells) to properly close and seal abandoned wells. Closure must be completed by a licensed well driller within 90 days after approval. Typically a large number of abandoned wells in an area will be abandoned at one time.

Requirements:

- 1) NNRD well abandonment program application and aerial photo of the section with the location of the well denoted must be submitted prior to closure.
- 2) NNRD approval is required before the well abandonment procedures begin.
- 3) The well(s) must be closed according to the HHSS and NDEQ Title 178 regulations governing water well abandonment standards and a licensed well driller must conduct the work.
- 4) NNRD will pay 75 percent cost-share assistance on approved well abandonment costs up to a maximum of \$500 for each cased well and \$700 for each hand dug well.
- 5) Eligible cost-share does not include payment for removal of any exposed or buried pipes, tanks, pumps, tower, well house or other apparatus.
- 6) The landowner has 90 days to complete work after receiving an approval letter from the NNRD. It is the landowner's responsibility to keep the well driller on schedule.
- 7) NNRD may spot check the well(s) prior to, during, or after proper well abandonment.
- 8) A description of the abandonment process completed on the State's "Notice of Abandonment" form and a copy of the bill listing the materials used must be submitted prior to payment.

5.3.3. NNRD Wellhead Protection Pilot Program

In 2017, the NNRD established a WHP Pilot Program to develop BMPs that provide cost share or incentive payments to producers in a WHP Area that benefits groundwater quality and quantity. Payment levels will be aggressive enough to create interest in the program. Depending on the practice, some payments will be a single one-time payment while others might be an annual payment. The program will be similar to other large scale watershed based projects. Funding from a variety of grant sources with a local match will be required. Input from producers in the WHP Area will be used to develop BMPs and payment rates. The pilot project will include two or three WHP Areas and could be expanded to additional WHP Areas if it's successful. Auburn formally joined the program in 2017.

5.4. Nebraska Department of Health and Human Services

Communities receive the ability to protect its water supply from potential harmful encroachments through the NHHS Title 179 – Public Water Systems (NHHS, 2010). Chapter 7 of Title 179 provides setbacks from a variety of items to protect public water suppliers. The BPW is the ultimate responsible party to ensure setbacks are met. Enforcement actions are the responsibility of NHHS on a complaint driven bases. These setbacks are shown in Table 9.

Category	Distance	179	178	119	122	123	124	126	130	198
Water Well*	1,000	Х	Х							
Sewage Lagoon	1,000	Х			Х	Х	Х			
Land app of municipal/industrial waste material	1,000	Х					Х			
Feedlot or feedlot runoff/Livestock waste control facility	1,000	Х								
Underground disposal system (septic, cesspool, etc.)	500	Х			Х		Х			
Corral	500	Х								
Pit/Vault toilet	500	Х					Х			
Wastewater holding tanks	500	Х					Х			
Sanitary landfill/Dump	500	Х								
Chemical or petroleum product storage	500	Х								
Sewage treatment plant	500	Х								
Sewage wet well	500	Х								
Sanitary sewer connection	100	Х								
Sanitary sewer manhole	100	Х								
Sanitary sewer line	50	Х				Х				
Class V domestic wastewater disposal wells	1,000				Х					
Class V wells constructed above water table	1,000				х					
Class V well injecting into or constructed through uppermost aquifer	1,000				Х					
Livestock waste control facility	1,000								х	
Fertilizer (paunch manure)	500							Х		
Static pile or wind row paunch storage	500							Х		
Paunch storage lagoon	500							Х		
Paunch maure static pile or wind row storage	500							Х		
Wastewater land application and effluent	500			Х						
Absorption, infiltration, and evaporative Systems	500						Х			
CAFO manure, litter, or process wastewater applied	100								Х	
New Secondary Containment/Loadout Facility	100									Х

 Table 9.
 Nebraska State Titles Specific to Public Water Supply Wells

Source: NDEQ WHP Program Coordinator 2017

5.5. Nebraska Department of Environmental Quality

The NDEQ approves WHP Areas and can assist communities with WHP Planning, including funding to support certain activities such as well closures, public meetings, incentives for BMPs, etc. The NDEQ also approves WHP Plans, which in certain situations can be helpful for enforcing local water protection ordinances.

5.6. Other Planning Partners

- University of Nebraska (UNL) Extension UNL Extension has been and continues to be an active stakeholder in source water protection. UNL Extension provides property owner coordination, facilitation of meetings, education and outreach, and program administration services.
- Natural Resources Conservation Service (NRCS) NRCS can provide assistance with implementation of conservation practices. NRCS can coordinate with property owners and assist with enrollment into federal programs.

- Nebraska Rural Water Association (NRWA) NRWA provides communities technical assistance with water systems including cross connection, disinfection, water treatment, and operator certification. NRWA also assist communities with source water protection.
- The Groundwater Foundation (TGF) TGF is a nonprofit located in Lincoln that can help communities with community outreach and education. TGF has several programs aimed at engaging communities to be active in protecting drinking water supplies.

CHAPTER 6 - EMERGENCY AND CONTINGENCY PLANS

6.1. Auburn Emergency Plan

Since February 2010, the City of Auburn has been a member of the Nebraska Water/Wastewater Agency Response Network (NEWARN). According to the website, <u>www.newarn.org</u>, NEWARN is a statewide water/wastewater agency response network of 'utilities helping utilities' to prepare for the next natural or human-caused emergency, organize response according to established requirements, and share personnel and other resources statewide, by agreement.

The City Public Water Supply Emergency Plan was prepared by the Board of Public Works and last updated March 25, 2015. A complete copy of the Emergency Plan has been placed in Appendix D. The plan summarizes key contacts, the organizational structure of the Auburn City Government, and actions to take if wells lose power or pressure, become inoperative, or contaminated. Steps are also outlined if security is breeched, vandals strike, or to address drought conditions. Alternative sources of drinking water or short-term sources are also listed.

6.2. Auburn BPW Regional Water Study/Future Water Needs

In 2008, Auburn completed a study to determine the feasibility of a regional water supply that would interconnect Auburn, Nemaha County RWDs #1 and #2, Brownsville, Peru, and Nemaha. The study, completed by HDR, analyzed the current water supply systems in Nemaha County based upon water quality, supply, and demands. Future water demands were established based upon population projections and current per capita water usage data. In addition, water treatment options for BPW were discussed based on water quality data from the existing Auburn well field and another southeast of the Village of Nemaha. The HDR Regional Water Study Report can be viewed at the Auburn Board of Public Works office at 1600 'O' Street in Auburn. In 2017, LBG updated HDR's original report and also reviewed how water levels in wells were affected by low flows in the river during dry and wet periods.

Based upon the regional study, Auburn's projected average flow was 590 GPM and the projected peak flow is 1,630 GPM through a design period of 2028. System demands vary across Nemaha County from 69 gallons/capday to 182 gallons/cap-day, with the average daily per capita water demand for Nemaha County being 157 gallons. As of 2017, no construction plans were in place for the Auburn BPW Regional Water System, however a public meeting was held with each of the stakeholders, facilitated by the NNRD, on April 17, 2017. The regional water survey recommends the Village of Nemaha, Nemaha Rural Water Districts #1 and #2, and the City of Auburn to work together to provide a low-cost of municipal water in the long-term at the lowest cost to the end user.

The City of Auburn Public Water System Master Plan (Two and Ten Year) was established on February 11, 2008, and last updated on January 28, 2015. The Master Plan lays out a direction for the short- and long-term plans for the water system. A copy of the Master Plan can be found in Appendix E.

6.3. Auburn BPW Potential Well Locations

Auburn BPW has looked at numerous potential well locations within their existing well field near Auburn. Five well sites have been identified and are displayed in Figure 19. In addition, the City has purchased a 36 - acre well field located east of the Village of Nemaha, Nebraska near the Missouri River, 11 miles southeast of Auburn. The BPW proposed to develop a new water supply at the new well field site to include three new vertical wells, with a potential for adding a fourth according to a Phase 1 – Well Construction report completed by HDR in May 2007. (The HDR well construction report can be viewed at the Auburn Board of Public Works

office at 1600 'O' Street in Auburn.) Locations of the proposed wells are displayed in Figure 20. NDEQ delineated a provisional 20-year time-of-travel in 2010 based upon assumed productions rates and anticipated well locations. The Nemaha provisional wellfield WHP Area is displayed in Figure 21.

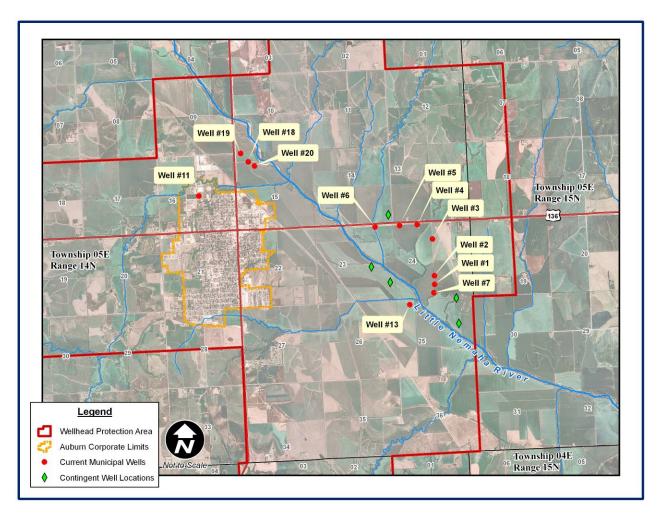


Figure 19. Auburn Well field Potential Well Sites

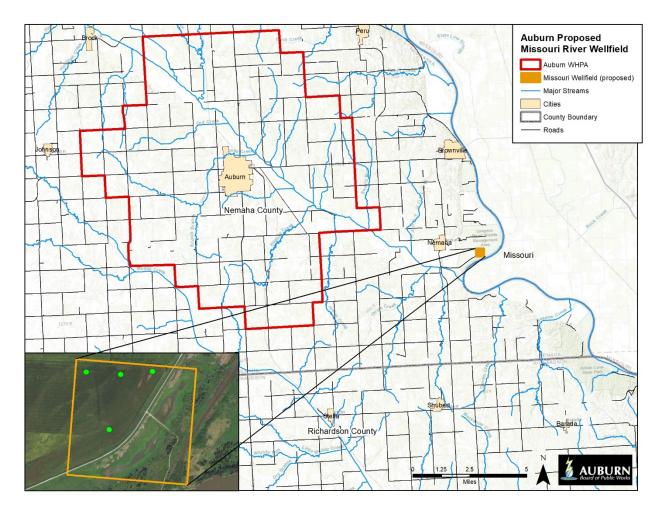


Figure 20. Auburn Well field Potential Well Sites

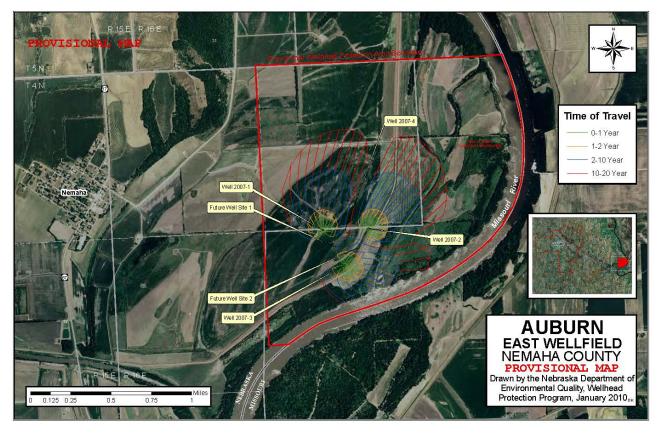


Figure 21. Auburn Nemaha Wellfield Preliminary WHPA

CHAPTER 7 - PUBLIC EDUCATION AND NOTIFICATION

7.1. Auburn Wellhead Protection Planning Committee

During establishment of the 2017 DWPMP, a stakeholder group was formed and met a total of three times. This stakeholder group also served as the WHP Committee. Feedback from this group was relevant to both the establishment of the DWPMP and the WHP Plan update. Additionally, a public open house was held towards the conclusion of the DWPMP and at the kickoff of the WHP Plan update. Feedback was summarized and incorporated into both the 2017 DWPMP and the 2017 WHP Plan. The WHP Committee is listed in Table 11.

Name	Represents	Name	Represents
Wes Debuhr	Ag Producer	Scott Teten	Ag Producer
Myron Gerdes	Ag Producer	Jim Wehenkel	Community
Bob Hemmingsen	Community	Bob Hilske	NNRD
Chuck Knipe	BPW / Ag Producer	Sam Radford	NDEQ
Joe Moody	Ag Producer	Carla McCullough	NDEQ
Phil Shaw	BPW / Community	Dave Hunter	BPW
Jonathan Mohr	Leggette, Brashears,	Ken Swanson	BPW
	& Graham		

Table 10. WHP Committee

7.1.1. Meeting Summary

During the process of updating the WHP Plan, a total of two WHP Committee meetings were held in addition to the required 30-day plan review period and public hearing. The BPW also used these opportunities to identify locations of abandoned wells and provide feedback on information being provided as part of the 2017 DWPMP. Documentation of public involvement, including meeting invitations and sign-in sheets, are found in Appendix F.

Meeting #1: WHP Plan Project Kickoff – Auburn BPW Office – July 10, 2017 @ 6:30pm

The DWPMP Stakeholder Group agreed to also act as the WHP Committee. At this meeting the group discussed the status of the DWPMP, how the WHP Plan will be established and the differences between the two planning efforts, the WHP Area report and conjunctive delineation, the update of the CSI, water quantity issues, and potential conservation practices. Dave Hunter provided a hard copy of the 2009 WHP Plan to all members and a copy was made available at the BPW office for review and comment.

Meeting #2: Regular Committee Meeting – Auburn BPW Office – September 21, 2017, 5:30pm

At this meeting the group discussed the status of the DWPMP, WHP Plan update, on-the-ground actions to improve water quality, groundwater recharge projects, the final WHP Area, conservation practice goals, and discussed the implementation strategy.

Meeting #3: Community Open House – Auburn BPW Shop – September 21, 2017, 7:00pm

A total of four citizens attended an open house to learn about efforts to protect the drinking water supply. The majority of the WHP Committee also attended the meeting. The BPW's consultant provided an overview of the hydrogeology around the community, how the WHP Area was delineated, details on the implementation strategy, and answered questions from the audience.

CHAPTER 8 - REFERENCES

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- LakeTech Consulting (LakeTech, 2017). Auburn Board of Public Works. Auburn Drinking Water Protection Management Plan (Draft 1.0). Lincoln, NE.
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- Nebraska Department of Environmental Quality (NDEQ 2017, October 1). *Wellhead protection* (WHP). Lincoln, NE. Retrieved from: http://deq.ne.gov/NDEQProg.nsf/OnWeb/WHPA.
- Nebraska Department of Environmental Quality (NDEQ, 2011). *NDEQ Water Quality Clearinghouse GIS Database*. Lincoln, NE. Retrieved from: NDEQ.
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- Nebraska Department of Health & Human Services (NHHS, 2010). *Title 179 Public Water Systems Rules and Regulations, Chapter 12.* Lincoln, NE.
- United States Census Bureau (US Census, 2017). Auburn, Nebraska population. Retrieved from Google Search. November 1, 2017

Appendix A: City of Auburn WHP Ordinance

ORDINANCE NO. 5-18



City of Auburn, Nebraska Wellhead Protection Ordinance

AN ORDINANCE TO PROVIDE FOR A WELLHEAD PROTECTION OVERLAY ZONE FOR THE CITY OF AUBURN, NEBRASKA IN NEMAHA COUNTY PURSUANT TO SECTION 17-536 OF THE REVISED STATUTES OF NEBRASKA BY ESTABLISHING LIMITATIONS UPON THE LOCATION OF POTENTIAL SOURCES OF POLLUTION OR INJURY TO THE CITY'S PUBLIC WATER SUPPLY; TO ESTABLISH RULES AND REGULATIONS DEFINING AND ENFORCING SUCH LIMITATION; TO PROVIDE PROCEDURES FOR IMPLEMENTATION OF RULES AND REGULATIONS; TO PROVIDE FOR REPEAL OF ALL ORDINANCES OR PARTS OF ORDINANCES IN CONFLICT HEREWITH; AND TO PROVIDE FOR AN EFFECTIVE DATE.

WHEREAS, Section 17-536 of the Revised Statutes of Nebraska provides that the jurisdiction of the City to prevent pollution or injury to the source of its water supply shall extend 15 miles beyond its corporate limits;

WHEREAS, Section 46-1503 of the Nebraska Wellhead Protection Area Act in the Revised Statutes of Nebraska provides that the City may designate a wellhead protection area (Exhibit 1) and adopt controls pursuant to said Act for the protection of the public water supply system;

WHEREAS, pursuant to the Nebraska Wellhead Protection Act, Sections 46-1501 *et. seq.* of the Revised Statues of Nebraska, the Mayor and City Council has previously adopted the Auburn Wellhead Protection Plan Ordinance No. 06-04, the 12th day of April, 2004;

WHEREAS, it is necessary to place limitations upon the location of potential sources of pollution or injury to the City's water supply and groundwater that is hydrologically connected thereto within the Wellhead Protection Area and to prescribe rules and regulations with respect to such limitation and the enforcement thereof;

"WHEREAS, based on data collected by the City's Engineers, the Nebraska Department of Environmental Quality has conducted studies and prepared a map reflecting recommended boundaries for the City of Auburn Wellhead Protection Area;"

WHEREAS, Nemaha County has not adopted zoning at the time of the enactment of this ordinance, this ordinance shall be precedent;

WHEREAS, the City of Auburn intends to enforce wellhead protection regulations of the City to the extent of the boundary recommended by the Nebraska Department of Environmental Quality and adopted **March 2018**, which includes the following described real estate:

In the County of Nemaha Nebraska at a point beginning at the center of the intersection of 724 Road and 636 Avenue proceed north to 725 Road then west to 634 Avenue then to 728 Road then to 633 Avenue then north to U.S. Highway 136 then west to 632 Avenue then north to 731 Road then east to 634 Avenue then north to 732 Road then east to 635 Avenue then north to 735 Road then east to 641 Avenue south to 733 Road then east to 642 Avenue then south to 722 Road then east to 643 A Avenue to U.S. Highway 136 then east to 642 Road then east to 643 A Avenue to 732 Road then east to 642 Avenue then south to 722 Road then east to 643 A Avenue to U.S. Highway 136 then east to 644 Avenue then south to 722 Road then east to 642 Avenue then south to 722 Road then east to 642 Avenue then south to 723 Road then east to 642 Avenue then south to 723 Road then east to 642 Avenue then south to 723 Road then east to 637 Avenue then west to beginning point of intersection of 724 Road and 636 Avenue.

1

NOW THEREFORE BE IT ORDAINED BY THE MAYOR AND COUNCIL OF THE CITY OF AUBURN, NEBRASKA:

Section 1

The findings set forth above are hereby made a part of this ordinance as fully as if set out at length herein.

Section 2

Words or phrases used in this ordinance shall be interpreted so as to give them the same meaning as they have in common usage and so as to give this ordinance its most reasonable application.

Section 3

The area inside the bold lines on the attached map (Exhibit 1, Auburn Wellhead Protection Area) and made part of this ordinance, shall be the official Wellhead Protection Area for the City of Auburn, Nebraska.

Section 4

It shall be unlawful for any person, other than the City of Auburn, to place, install, construct or replace any of the following structures or conduct any of the following activities which shall be designated by the Board of Public Works ("BPW") as a potential threat to the water supply within the Wellhead Protection Area, except as may be provided herein, to-wit:

Activity or structure:

- 1) Non-potable water well
- 2) Sewage lagoon
- 3) Absorption or disposal field for waste
- 4) Cesspool (prohibited under NDEQ Title 124, Chapter 1, Section 032)
- 5) Dump
- 6) Feedlot or feedlot runoff (As defined by Title 130 of the regulations of the Nebraska Department of Environmental Quality)
- 7) Corral
- 8) Pit toilet (prohibited under NDEQ Title 124, Chapter 1, Section 032
- 9) Sanitary landfill
- 10) Chemical or petroleum product storage
- 11) Septic tank
- 12) Sewage treatment plant
- 13) Sewage wet well (prohibited under NDEQ Title 122, Chapter 3, Section 005)
- 14) Sanitary sewer connection
- 15) Sanitary sewer manhole
- 16) Sanitary sewer line

AUBURN BPW

Section 5

Under the authority conferred by the City of Auburn to the BPW under section 17-802 of the Revised Statutes of Nebraska, the BPW shall be responsible for implementation and enforcement of the rules and regulations established by this ordinance and shall consider all applications filed pursuant hereto. All applications shall be approved or rejected by majority of the BPW with a roll call vote. The BPW shall designate one of its employees *Administrator*. This employee shall be charged with administration of the rules and regulations.

Section 6

The placing, installing, constructing or replacing of any structure or activity as set forth in Section 4 of this ordinance, hereinafter termed "wellhead structure or activity", within the Wellhead Protection Areas shall not be permitted after the effective date of this ordinance unless a permit, approved by the Board of Public Work, has been obtained. The owner of any wellhead structure or activity shall have the burden of establishing the existence and use of said wellhead structure or activity at the time of the effective date of this ordinance.

Section 7

No permit shall be issued by the BPW within the following setback distances from any City public water supply well:

ACTIVITY	MINIMUM DISTANCE (feet)
Non-potable water well	1,000
Sewage lagoon	1,000
Absorption or disposal field for waste	500
Cesspool	Not allowed
Dump	500
Feedlot or feedlot runoff	500
Corral	500
Pit toilet	500
Sanitary landfill	500
Chemical or petroleum product storage	500
Septic tank	500
Septic tank (greater than1,000 gallons per day)	1,000
Sewage treatment plan	1,000
Sewage wet well	1,000
Sanitary sewer connection	100
Sanitary sewer manhole	100
Sanitary sewer line	50
Sanitary sewer line (water tight)	10

Any prohibited activity or structure described above that is located within the defined setback distance is considered a hazard to the quality of groundwater that is hydrologically connected to, or likely to injure, restrict access, contaminate or pollute the City's water supply.

Section 8

For purposes of this ordinance, a permit issued by the BPW shall be revoked in the event conditions at an animal feeding operation, as defined by Title 130 of the regulations of the Nebraska Department of Environmental Quality ("DEQ"), indicate a potential for waste discharge which may threaten the City's water supply, including but not limited to surface and groundwater that is hydrologically connected thereto, unless the owner of the operation can provide evidence to the BPW that the threat has been eliminated. The determination of whether a threat has been eliminated is within the sole discretion of the BPW, which may seek guidance from the DEQ in making its determination.

1/2 UBURN BPW

Section 9

Prior to placing, installing, constructing, expanding or replacing any wellhead structure or activity, the owner of the real estate upon which the structure or activity is proposed shall file with the BPW an application for a wellhead structure or activity permit. Said application shall be on a form furnished by the BPW and shall include supporting information indicating why approval would not adversely impact the City's public water supply or why the proposed activity is unlikely to injure, restrict access, contaminate or pollute the City's public water supply. This application shall be submitted to the BPW Board for consideration. Any wellhead structure or activity not prohibited by Section 7 above shall be permitted upon a determination of the BPW, in its sole discretion, that such structure or activity does not constitute a hazard or threat, or is not likely to injure, restrict access to, contaminate, or pollute the City's water supply. Prior to acting upon such application, the BPW may request an engineering report, recommendations of the Nemaha Natural Resources District, the Nebraska Department of Environmental Quality or any other party or agency in evaluating the impact of the proposed structure or activity is unlikely to injure, restrict access, contaminate or pollute the City's water supply. A permit shall be issued if BPW determines the structure or activity is unlikely to injure, restrict access, contaminate or pollute the City's water supply, including but not limited to surface and groundwater that is hydrologically connected thereto.

Section 10

If the Auburn Board of Public Works determines that an existing wellhead structure or activity presents a hazard, or is likely to injure, restrict access to, contaminate or pollute the City's public water supply, including but not limited to surface and groundwater that is hydrologically connected thereto, the BPW shall immediately notify the landowner in writing to cease and desist use of the injurious structure or operation of the injurious activity. The BPW shall deliver a copy of the cease and desist notice to the City Attorney, the City Council, and the Mayor. Should the Owner desire to continue use or operate after receiving notice to cease and desist, the landowner, within ten (10) days of receiving notice, shall make a written request for hearing to the Auburn City Hall, 1101 "J" St., Auburn, NE. 68305. A hearing before the City Council shall be held within thirty (30) days of receipt of request by City Hall. The landowner shall refrain from use of the injurious structure or operation of the injurious activity identified in the written notice from the BPW until resolution of the appeal to the City Council. At the hearing, the BPW shall present evidence of the proposed injurious structure, or activity causing harm or potential harm, to the City's public water supply, including surface and groundwater that is hydrologically connected thereto. The Owner may present evidence rebutting the BPW's allegations. The City Council shall make a final decision in writing within thirty (30) days of the hearing date, which shall be based upon the evidence presented to it at the hearing. The City Council shall send copies of its decision to the BPW and the Owner by e-mail or first-class mail.

Section 11

Any person found violating any provision of this ordinance shall be subject to a fine not to exceed \$500.00. The continuation of a violation of this ordinance shall be deemed an additional crime for every 24 hours of such continued violation. In addition, the City may obtain injunctive relief and sue for damages and remediation, and pursue any other remedy available to it under the laws of the State of Nebraska or other authority having jurisdiction over such matters.

Section 12

Should any section, paragraph, sentence or word of this ordinance hereby adopted be declared, for any reason, to be invalid, it is the intent of the Mayor and City Council of the City of Auburn, Nebraska, that it would have passed all other portions of this ordinance independent of the elimination hereof of any such portion as may be declared invalid.

Section 13

All ordinances or parts of ordinances in conflict with the provisions of this ordinance are hereby repealed.

Section 14

.

This ordinance shall take effect and be in full force and effect from and after its passage and publication according to law.

PASSED AND APPROVED this 11th day of June, 2018.

CITY OF/AUBURN, NEMAHA COUNTY, NE

Mayor

Attest: ester Sherry Heskett, City Clerk

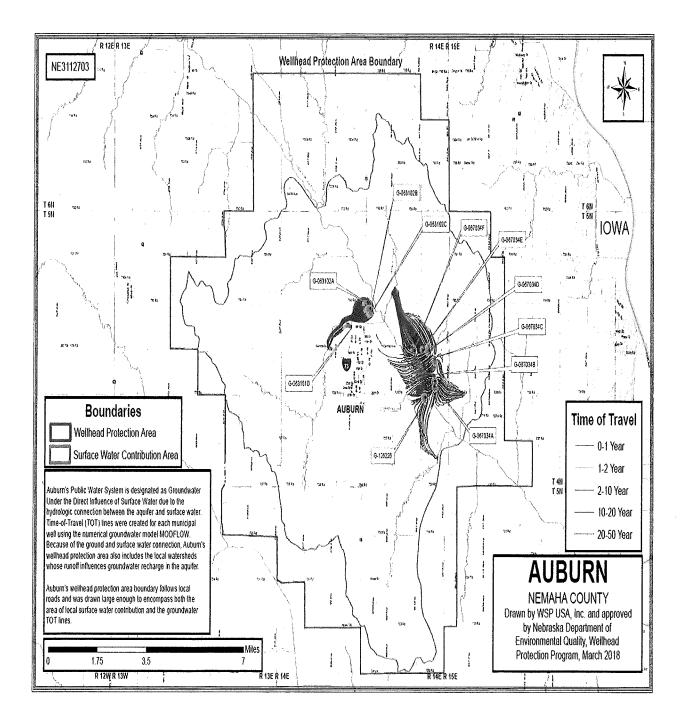
Approved as to form: 6-11-18 City Attorney



City of Auburn, Nebraska - Wellhead Protection Ordinance - May 13, 2018 DOCS/2086098.2



EXHIBIT 1 – Auburn Wellhead Protection Area Map



Appendix B: Consumer Confidence Report & Sanitary Survey



City Of Auburn

Annual Water Quality Report For January 1 to December 31, 2016

This report is intended to provide you with important information about your drinking water and the efforts made by the City Of Auburn water system to provide safe drinking water.

Para Clientes Que Hablan Español: Este informe contiene información muy importante sobre el agua que usted bebe.

Tradúzcalo ó hable con alguien que lo entienda bien.

For more information regarding this report, or to request a hard copy, contact:

KENNETH SWANSON 402-274-4981 Ext: 112

If you would like to observe the decision-making processes that affect drinking water quality, please attend the regularly scheduled meeting of the Village Board/City Council. If you would like to participate in the process, please contact the Village/City Clerk to arrange to be placed on the agenda of the meeting of the Village Board/City Council.

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the EPA's Safe Drinking Water Hotline (800-426-4791).

Source Water Assessment Availability:

The Nebraska Department of Environmental Quality (NDEQ) has completed the Source Water Assessment. Included in the assessment are a Wellhead Protection Area map, potential contaminant source inventory, vulnerability rating, and source water protection information. To view the Source Water Assessment or for more information please contact the person named above on this report or the NDEQ at (402) 471-6988 or go to www.deg.state.ne.us.

In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. FDA regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

Sources of Drinking Water:

The sources of drinking water (both tap water and bottled water) include riv ers, lakes, streams, ponds, reserv oirs, springs, and groundwater wells. As water travels over the surface of the land

or through the ground, it dissolves naturally-occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity.

The source of water used by City Of Auburn is ground water under the direct influence of surface water.

Contaminants that may be present in source water include:

* Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations and wildlife.

* Inorganic contaminants, such as salts and metals, which can be naturally occurring or result from urban storm water runoff, industrial, or domestic wastewater discharges, oil and gas production, mining, or farming.

* Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban storm water runoff, and residential uses.

* Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban storm water runoff, and septic systems.

* Radioactive contaminants, which can be naturally -occurring or be the result of oil and gas production and mining activities.

Drinking Water Health Notes:

Some people may be more vulnerable to contaminants in drinking water than the general population. Immunocompromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and other microbial contaminants are available from the Safe Drinking Water Hotline (800-426-4791) or the Department of Health and Human Services, Division of Public Health, Office of Drinking Water at 402-471-2541.

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. All Community water systems are responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have you water tested. Information on lead in drinking water, testing methods, and steps vou can take to minimize exposure is available from the Safe Drinking Water Hotline (800-426-4791), at http://www.epa.gov/safewater/lead or at the DHHS/DPH/Office of Drinking Water (402-471-2541).

The City Of Auburn is required to test for the following contaminants: Coliform Bacteria, Antimony, Arsenic, Asbestos, Barium, Beryllium, Cadmium, Chromium, Copper, Cyanide, Fluoride, Lead, Mercury, Nickel, Nitrate, Nitrite, Selenium, Sodium, Thallium, Alachlor, Atrazine, Benzo(a)pyrene, Carbofuran, Chlordane, Dalapon, Di(2-ethylhexyl)adipate, Dibromochloropropane, Dinoseb, Di(2-ethylhexyl)- phthalate, Diguat, 2,4D, Endothall, Endrin, Ethylene dibromide, Glyphosate, Heptachlor, Heptachlor epoxide, Hexachlorobenzene, Hexachlorocyclopentadiene, Lindane, Methoxychlor, Oxamyl (Vydate), Pentachlorophenol, Picloram, Polychlorinated biphenyls, Simazine, Toxaphene, Dioxin, Silvex, Benzene, Carbon Tetrachloride, o-Dichloro- benzene, Para-Dichlorobenzene, 1,2-Dichlorethane, 1,1-Dichloroethylene, Cis-1,2,-Dichloroethylene, Trans-1,2-Dichloroethylene, Dichloromethane, 1,2-Dichloropropane, Ethylbenzene, Monochlorobenzene, 1,2,4-Trichloro-benzene, 1,1,1-Trichloroethane, 1,1,2-Trichloroethane, Trichloroethylene, Vinyl Chloride, Styrene, Tetrachloroethylene, Toluene, Xylenes (total), Gross Alpha (minus Uranium & Radium 226), Radium 226 plus Radium 228, Sulfate, Chloroform, Bromodichloromethane, Chlorodibromomethane, Bromoform, Chlorobenzene, m-Dichlorobenzene, 1.1-Dichloropropene, 1.1-Dichloroethane, 1,1,2,2-Tetrachlorethane, 1,2-Dichloropropane, Chloromethane, Bromomethane, 1,2,3-Trichloropropane, 1,1,1,2-Tetrachloroethane, Chloroethane, 2,2-Dichloropropane, o-Chlorotoluene, p-Chlorotoluene, Bromobenzene, 1,3-Dichloropropene, Aldrin, Butachlor, Carbaryl, Dicamba, Dieldrin, 3-Hydroxycarbofuran, Methomyl, Metolachlor, Metribuzin, Propachlor,

How to Read the Water Quality Data Table:

The EPA and State Drinking Water Program establish the safe drinking water regulations that limit the amount of contaminants allowed in drinking water. The table shows the concentrations of detected substances in comparison to the regulatory limits. Substances not detected are not included in the table. The state requires monitoring of certain contaminants less than once per year because the concentrations of these contaminants do not change frequently. Therefore, some of this data may be older than one year. MCL (Maximum Contaminant Level) - The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology. MCLG (Maximum Contaminant Level Goal) - The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety. AL (Action Level) - The concentration of a contaminant which, if exceeded triggers treatment or other requirements which a water system mustfollow.

MRDL (Maximum Residual Disinfectant Level) – The highest level of a disinfectant allowed in drinking water. N/A – Not applicable.

Units in the Table:

ND - Not detectable.

ppm (parts per million) = mg/L (milligrams per liter) - One ppm or one mg/L corresponds to 1 gallon of water in 1,000,000 gallons of water. ppb (parts per billion) - One ppb corresponds to 1 gallon of water in 1,000,000,000 gallons of water.

pCi/L (Picocuries per liter) - Radioactivity concentration unit.

ug/L (micrograms per liter) – Measurement of radioactivity. RAA (Running Annual Average) – An ongoing annual average calculation of data from the most recent four quarters.

90th Percentile – Represents the highest value found out of 90% of the samples taken in a representative group. If the 90th percentile is greater than the action level, it will trigger a treatment or other requirements that a water system must follow.

TT (Treatment Technique) - A required process intended to reduce the level of a contaminant in drinking water.

COPPER, FREE 2	Monitorin Period 2014 - 20 2014 - 20 2014 - 20	90th Pe 16 0.74	arYearot2		MCL Unit		AL.	Sites	MCLG Likely Source Of	Contamination	Violations Present	
ead and Copper COPPER, FREE 2 EAD 2 Regulated Contaminan ARSENIC BARIUM	Monitorin Period 2014 - 20 2014 - 20 nts Ca	19 90th Pe 16 0.74 16 4.84 ollection	ercentile	Range 0.0636 - 0.814 0.534 -		4	AL.		kely Source Of Contamination			
Lead and Copper F COPPER, FREE 2 LEAD 2 Regulated Contaminant ARSENIC BARIUM	Period 2014 - 20 2014 - 20 nts Ca Da	90 ^m Pe 16 0.74 16 4.84 ollection		0.0636 - 0.814 0.534 -		Å	۹L		kely Source Of Contamination			
EAD 2 Regulated Contaminan ARSENIC BARIUM	2014 - 20 nts C4 Da	16 4.84		0.814 0.534 -	ppm			Over AL				
Regulated Contaminan ARSENIC BARIUM	nts Co	ollection				1	1.3	0	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing.			
ARSENIC BARIUM	nts Da			7.15	ppb	1	15	0	osion of natural deposits; Leaching from busehold plumbing.	wood preservatives	; Corrosion of	
BARIUM	9		Highest Value	Range	Unit	мс	CL	MCLG	ikely Source Of Contamination			
		0/15/2015	2.35	2.35	ppb	10)	0	Erosion of natural deposits; runoff from c roduction wastes.		0	
FLUORIDE	1	/4/2016	0.17	0.17	ppm	2		2	Discharge from drilling wastes; Discharg eposits.			
	1	/4/2016	0.807	0.807	ppm	4		4	Erosion of natural deposits; water additiv ischarge.	•	0	
NITRATE-NITRITE	_	2/22/2016	2.56	2.56	ppm			10	Runoff from fertilizer use; Leaching from eposits	septic tanks, sewage	e; Erosion of natural	
SELENIUM	1	/4/2016	5.41	5.41	ppb	50)	50	Erosion of natural deposits			
Disinfection Byproduct	10 21	lonitoring eriod	Highest RAA	Range	Unit	мс	CL	MCLG	ely Source Of Contamination			
OTAL HALOACETIC ACIDS (HAA5)	3/	/1/2015 - /31/2016	3.785	2.74 - 4.83	ppb	60		0	product of drinking water disinfection.			
ТНМ		/1/2015 - /31/2016	23	19.6 - 26.4	ppb	80		0	product of drinking water disinfection.			
Radiological Contamin	nants	Collection Date	Highe Value		e	Unit	MCL	MCLG	Likely Source Of Contamination			
GROSS ALPHA, INCL. RADON & U		4/15/2014	5.85	5.85		pCi/L	15	0	Erosion of natural deposits			
Inregulated Water Qua	ality Data	a		Collectio				ghest Valu	Range Unit	Secondary MCI	-	
NICKEL				2/23/201	-		-	00256	0.00256 mg/L	0.1		
SULFATE				2/23/201	5		63	.9	63.9 mg/L	250		
iring the 2016 calenda	ar year, w	ve had the bel	ow noted v	iolation(s)	of drink	ing wat	er reg	ulations.				
ype No ViolationsOccurred				Category								

There are no additional required health effects notices.

There are no additional required health effects violation notices.

Department of Health & Human Services



State of Nebraska Pete Ricketts, Governor

July 22, 2016

Kenneth A. Swanson City of Auburn Board of Public Works PO Box 288 Auburn, NE 68305

RE: Routine Sanitary Survey, City of Auburn, NE31-12703, Nemaha County.

Dear Mr. Swanson:

On June 9, 2016, a survey of the City of Auburn PWS (the system) was conducted by Fred Baumert, accompanied by you, representing the system, to determine compliance with Title 179 NAC Regulations Governing Public Water Supply Systems. Findings of the inspection were discussed with you at the completion of the inspection. This letter serves as official notification from the Department to the system that no deficiencies were found during the sanitary survey.

OIb

As a reminder, prior to making any modifications or alterations to your public water system, please contact DHHS Engineering Services at (402)471-0597 to determine if plans and specifications prepared by a Nebraska registered professional engineer are required.

With regard to backflow tests conducted within the City of Auburn, it is recommended that a space be provided on the City of Auburn Backflow Test Report Form so that the annual calibration date of the Backflow Test Equipment that is used by the Grade VI Water Operator to conduct the test may be recorded on the form.

If you wish to discuss the findings of this survey, please contact me at the address listed below, by E-mail at <u>fred.baumert@nebraska.gov</u>, or by phone at (402) 471-0519 (office) or (402) 440-4917 (cell).

Sincerely,

FreBan

Fred Baumert Water Supply Specialist DHHS - DPH Field Area One Representative 301 Centennial Mall South PO Box 95026 Lincoln, NE 68509-5026

Cc: David A. Hunter, Jr., General Manager City of Auburn Files in Lincoln

Useful Links: DHHS DPH Public Water Supply Program - http://dhhs.ne.gov/publichealth/Pages/enh_pwsindex.aspx Midwest Assistance Program - http://map-inc.org/ Nebraska Rural Water Association - http://www.nerwa.org/ League of Nebraska Municipalities - http://www.lonm.org/

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Revised	8/1/2014
DLW	

Nebraska Department of Health and Human Services Division of Public Health – Office of Drinking Water <u>Public Water Supply Routine Sanitary Survey</u>

PWS Name: <u>City of Auburn</u>		PWS	SID #: 1	NE31- <u>12703</u> Permit Issue Date: <u>7/1/1977</u>
Physical Address of NC PWS: 1600 O S	street,	Aub	urn, NI	<u>E 68305</u>
Is system a NeWARN Member? Y 🖂 🛛	N			
County: <u>Nemaha</u> NRD #: <u>10</u>	- Nen	<u>1aha</u>		System Class: 2 Type of System: C
Accompanied By: Kenneth Swanson	_Title	e: <u>W</u>	ater / W	Vastewater Manager Governing Body: <u>Board of Public Works</u>
Is there a defined organizational struct	ure fo	r dec	ision m	aking: Y 🖾 N 🗌
			ate: <u>4/5</u>	
Is the operator in responsible charge pr				
	FI	NA	NCIA	AL INFORMATION
% Metered Connections: <u>100</u> % # Re	esiden	tial S	Service (Connections: <u>1411</u> # Non-residential Service Connections: <u>383</u>
System Interconnections: <u>None</u> Re	ason:		🗌 Pu	rchase 🗌 Sell 🔲 Emergency
Comments:				
Is operating budget available for inspec	tion:	Y 🖂	N 🗌	Planned or Actual for Year: <u>2015</u>
	SY	STE	M RE	CORDS / PROGRAMS
	S	U	NA	Comments
System Maps	\boxtimes	$\overline{\Box}$		Updated continuously
Water Quality / Sample results		Π		
Water Production Records	$\overline{\boxtimes}$	Π	1 FT	
Chemical Use Records	\square			
Maintenance Records	\boxtimes			Water Distribution System Maintenance Log
Customer Complaints	\boxtimes			
Cross-Connection Control	\boxtimes			
Requirements				
Copy of Sampling Plans	\boxtimes			Date approved: 1/28/2016
Wellhead Encroachment Policy		\boxtimes		In the process of being updated
Emergency Phone List	\square			Date approved: 1/28/2016
Emergency Plan	\square			Date approved: 3/29/2016
Planning Records	\square			Master Plan updated 1/28/2015
CCR(s)	\square			
O&M Manual	\square			Updated 5/27/2016
Provisions For Drought Mitigation/Management	\boxtimes			

Other Records and Comments:

NEBRASKA SUSTAINABILITY CHECKLIST FOR PUBLIC WATER SYSTEMS CAPACITY ASSURANCE

SYSTEM NAME: <u>City of Auburn</u> Community NTNC

DATE: <u>6/9/2016</u> # Connections <u>1794</u> Population <u>3460</u> NE31-<u>12703</u>

ASSESSMENT COMPLETED BY: Fred Baumert

MANAGERIAL CAPACITY	Points	System
Asset Management Program	10	0
Documented Bylaws or Water System Ordinances - (Drought, Backflow, Rates, Fees, etc.)	5	5
Employee Handbook	5	5
Written Job descriptions	5	5
Secure and accessible water system records	5	5
Source water or wellhead protection plan	5	3
Regular communication with customers - (Not CCR)	5	5
Managerial Subtotal	40	28
FINANCIAL CAPACITY		
Formal water system budget	10	10
Water rate or fee structure meets expenses	10	5
Annual water rate review	10	10
Capital reserve fund	10	10
Monthly Expense & Revenue reports to Board/Council	10	5
Annual outside audit	10	10
Financial Subtotal	60	50
TECHNICAL CAPACITY		
Adequate source water capacity	10	10
Licensed Operator	5	5
Operations & Maintenance Manual	5	5
Up to Date Distribution Map	5	5
Water Loss Accounting	10	10
Water meters	10	10
Technical Subtotal	45	45
Capacity Subtotal	145	123
Outstanding Violations (Subtract from Capacity Subtotal)		
11 or more points on EPA's Enforcement Targeting Tool (ETT) list	-20	
Significant deficiencies - per deficiency	-10	
Maximum Contaminant Levels - per violation	-10	
Monitoring and reporting - per violation	-5	
Public Notice (CCR, other Public Notice) - per violation	-5	
Non-Compliance Subtotal	-50	
OVERALL CAPACITY RATING		
Minimum Capacity Rating = 100 Systems below this rating may be required to prepare a business plan and/or attend board training in addition to addressing all outstanding violations to re-establish adequate capacity.		

LICENSED WATER OPERATOR NEEDS ASSESSMENT

Is the Designated Water Ope	erator In Responsible Charge	e (DO) assigned	full-time water	r system duties (is water
all s/he does)?					

Y 🗌 N 🔀

If No, what are the other duties that are assigned to the DO? <u>Wastewater operations or and contract</u> services for other utillities.

Do all licensed operators for the system have a commensurate grade of license compared to the system classification? Y \square N \boxtimes

If No, what is the reason? Supervisor presently has Grade II and others are working toward that level

Other licensed operators duties: All

Are there unlicensed persons working on the water system? Y \square N \boxtimes

If Yes,	are they	making any	process	control or syst	em integrity	decisions? Y	ζ 🗌	N	

If Yes, what are those decisions? _____

Are there training needs that are currently not available to the systems licensed operators? Y	N	\triangleleft
If Yes, what are those training needs?		

What skills must an operator possess to work for this system? <u>Recordkeeping, have water system know-how;</u> be versatile

Are there any skills that the DO or other licensed operators need to develop for their jobs that they do not already possess?

Need more training opportunities specifically for youig, inexperiended water operators

Does PWS management have knowledge of the DO and other licensed operators training/continuing educatio	n
needs? Y 🔀 N 🗍	

Comments: _____

Is system management supportive	of the DO/other licensed operators	attending continuing education
workshops/conferences? $Y \boxtimes N$		

If No, what assistance may the Department provide to improve this situation?

On average, how much training is each operator afforded every year? 5-10 hours

General comments on DO/Licensed Operator needs:

WATER SOURCE INFORMATION

Source Type: 🗌 Surface Water 📃 Infiltration Gallery	Spring	🖄 Well
Other:		
Does the system have a withdrawal (allocation) permit: 🛛 Y 🗌 🏻	N 🖂	
If yes, from whom and quantity:		
Max. daily (24 hour) production capability: <u>X</u> Total production	uction for past ye	ar: <u>149</u> MG
Population: <u>3460</u>		
Comments:		
**VOLUNTARY	PROGRAMS	
**Does the system have a Watershed Management Program:	Y 🗌 N 🖂	
**Does the system have a delineated Well Head Protection Area:	Y 🖾 N 🗌	
**Has the WHPA officially been adopted by the system:	Y 🖾 N 🗌 N/A	Date: <u>08/2010</u>

• • •		
**Has a contaminant source inventory been completed:	Y 🖾 N 🗌	Date: 02/11/2003
**Has the contaminant source inventory been updated:	Y 🛛 N 🗌 N/A 🗌	Date: <u>10/05/2009</u>
**Does the system have a delineated WDA (surface sources only):	Y 🗌 N 🗌 N/A 🖾	
**Has a contaminant inventory for the WDA been completed:	Y 🗌 N 🗌 N/A 🖾	Date:
**Is there an ERP for spills within WHP or WDA Areas:	Y 🗌 N 🗌 N/A 🖂	
(Items below required for systems over 3,300 population)		
**Has an EPA Vulnerability Assessment (VA) been completed:	Y 🛛 N 🗌 N/A 🗌	Date: 02/05/2008
**Has certification documentation been submitted for the EPA VA	.:Y🛛 N 🗌 N/A 🗌	
**Has an EPA Emergency Response Plan (ERP) been completed:	Y 🛛 N 🗌 N/A 🗌	Date: 02/05/2008
**Have certification documents been submitted for the EPA ERP:	Y 🛛 N 🗌 N/A 🗌	
Comments: The EPA Vulnerability Assessment and Emer	rgency Response Plan wer	e completed using SEMS

software. The Auburn Wellhead Protection Plan is in the process of being upgraded at the present time. The Plan is not a State-Approved Plan at this time.

DHHS-DPH will assess the following:

Is the source adequate to meet peak demands:	Y 🛛 N 🗌
Is all source water metered:	Y 🛛 N 🗌
Are any source water facilities located within a 100 yr. flood plain:	Y 🛛 N 🗌
If yes, list each facility: <u>All Auburn wells</u>	
Have any source water facilities ever been flooded:	Y 🗌 N 🖾

If yes, list each facility:

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Comments on Water Source: <u>All wells are located within a flood plain but are constucted and or bermed above the expected</u> flood level. The City owns the immediate property on which Well 13 is located. All other well sites are leased from others.

CROSS-CONNECTION CONTROL PROGRAM

Name of person responsible for the administration and enforcement of the CCC Program: Kenneth Swanson

Name License # Expiration Date Kenneth Swanson 6944 12/31/2017 Does the system have an adopted resolution, ordinance, or other enforceable instrument that assures the CCC requirem are being met: Y □ N □ Joes the system have an adopted resolution, ordinance, or other enforceable instrument that assures the CCC requirem are being met: Y □ N □ Joes the system have an adopted resolution, ordinance, or other enforceable instrument that assures the CCC requirem are being met: Y □ N □ Joes the system have an adopted resolution; ordinance #: 13-98 Other:	PWS G	rade 6 Oper	ators:	
Does the system have an adopted resolution, ordinance, or other enforceable instrument that assures the CCC requirem are being met: Y ⊠ N □ N/A □ Comments: If yes, provide the following information: Ordinance #: 13-98 Other: Responsibility of PWS: Enforce regulations; provide public education; conduct surveys; keep records. Responsibility of Consumer: Report cross connections; test backflow prevention devices. Fines or Penalties for Noncompliance: Loss of water service Date(s) of last cross-connection survey: 2012 New survey is to be completed during of before 2017. How were (are) surveys distributed: Mailed % of residential surveys returned: 100% % of non-residential surveys returned: 100% What actions are taken if surveys are not returned: Phone customer; go door to door. Have cross-connections been properly addressed: Y ⊠ N □ Comments: Required testing frequency of assemblies: Annually Have all backflow preventers been tested by a properly licensed G6 operator: Y ⊠ N □ Are testing records for the last 5 years available: Y ⊠ N □ Is testing current: Y ⊠ N □ Does the PWS enforce the requirements of their cross-connection control program: Y ⊠ N □ Describe: Public	Name	License #	Expiration Da	te
are being met: Y ⊠ N □ N/A □ Comments:				
If yes, provide the following information: Ordinance #: <u>13-98</u> Other: Responsibility of PWS: <u>Enforce regulations; provide public education; conduct surveys; keep records.</u> Responsibility of Consumer: <u>Report cross connections; test backflow prevention devices.</u> Fines or Penalties for Noncompliance: <u>Loss of water service</u> Date(s) of last cross-connection survey: <u>2012 New survey is to be completed during of before 2017.</u> How were (are) surveys distributed: <u>Mailed</u> % of residential surveys returned: <u>100</u> % % of non-residential surveys returned: <u>100</u> % What actions are taken if surveys are not returned: <u>Phone customer; go door to door.</u> Have cross-connections been properly addressed: Y ⊠ N ☐ Comments: Required testing frequency of assemblies: <u>Annually</u> Have all backflow preventers been tested by a properly licensed G6 operator: Y ⊠ N ☐ Are testing records for the last 5 years available: Y ⊠ N ☐ Is testing current: Y ⊠ N ☐ Does the PWS enforce the requirements of their cross-connection control program: Y ⊠ N ☐ Comments: Is an on-going public information program being done (beyond the CCR addition): Y ⊠ N ☐ Describe: <u>Public</u>	Does the system have an adopted resolution, ordina	nce, or other e	nforceable instrument that assu	ures the CCC requirements
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Responsibility of Consumer: Report cross connections; test backflow prevention devices. Fines or Penalties for Noncompliance: Loss of water service Date(s) of last cross-connection survey: 2012 New survey is to be completed during of before 2017. How were (are) surveys distributed: Mailed % of residential surveys returned: 100% % of non-residential surveys returned: 100% What actions are taken if surveys are not returned: Phone customer; go door to door. Have cross-connections been properly addressed: Y ⊠ N □ Comments: Required testing frequency of assemblies: Annually Have all backflow preventers been tested by a properly licensed G6 operator: Y ⊠ N □ Are testing records for the last 5 years available: Y ⊠ N □ Is testing current: Y ⊠ N □ Does the PWS enforce the requirements of their cross-connection control program: Y ⊠ N □ Describe: Public	If yes, provide the following information: Ordinan	ce #: <u>13-98</u>	Other:	
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What actions are taken if surveys are not returned: Phone customer; go door to door. Have cross-connections been properly addressed: Y 🖄 N 🗌 Comments: Required testing frequency of assemblies: Annually Have all backflow preventers been tested by a properly licensed G6 operator: Y 🖄 N 🗌 Are testing records for the last 5 years available: Y 🖄 N 🗌 Is testing current: Y 🖄 N 🗌 Does the PWS enforce the requirements of their cross-connection control program: Y 🖄 N 🗌 Is an on-going public information program being done (beyond the CCR addition): Y 🖄 N 🗌	How were (are) surveys distributed: Mailed			
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Required testing frequency of assemblies: <u>Annually</u> Have all backflow preventers been tested by a properly licensed G6 operator: Y \boxtimes N \square Are testing records for the last 5 years available: Y \boxtimes N \square Is testing current: Y \boxtimes N \square Does the PWS enforce the requirements of their cross-connection control program: Y \boxtimes N \square Comments: Is an on-going public information program being done (beyond the CCR addition): Y \boxtimes N \square Describe: <u>Public</u>	What actions are taken if surveys are not returned	Phone custon	ner; go door to door.	
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Are testing records for the last 5 years available: Y Image: N Im	Required testing frequency of assemblies: Annuall	Y		
Does the PWS enforce the requirements of their cross-connection control program: $Y \boxtimes N \square$ Comments:	Have all backflow preventers been tested by a prop	erly licensed G	66 operator: Y 🛛 N 🗌	
Is an on-going public information program being done (beyond the CCR addition): Y 🖄 N 🗌 Describe: <u>Public</u>	Are testing records for the last 5 years available:	Y 🛛 N 🗌	Is testing current:	Y 🖾 🛛 🗌
	Does the PWS enforce the requirements of their cr	oss-connection	control program: Y 🛛 🛛 N 🗌	Comments:
education article(s) are printed each year in the BPW Newsletter that is mailed to all utility customers.	Is an on-going public information program being d	one (beyond th	e CCR addition): Y 🖄 🛛 N 🗌	Describe: <u>Public</u>
	education article(s) are printed each year in the BP	W Newsletter	that is mailed to all utility custo	omers.

Comments: <u>1. BPW has a "containment" backflow protection policy. However, if backflow prevention assemblies are</u> known to be used as "isolation" devices within the water system, then BPW requires annual testing of these assemblies as well.

2. There were 108 testable backflow prevention assemblies in the water system at the time of this survey, and this includes assemblies owned by the City. An inventory of assemblies was provided to DHHS. Annual testing is current.

3. Pressure vacuum breakers are typically required on new lawn irrigation installations. Annual testing of these devices is not required beyond the initial test. 4. Records indicate there are a total of 185 of these "non-testable" backflow preventions devices in the system.

4. BPW owns a Watts TK-99 Backflow Tester that was calibrated on March 4, 2016.

5. A backflow protection policy/program was begun in April 2013 that involves some 27 residential locations where boilers are used for heating. The program is ongoing; 100% compliance has not yet been achieved.

ANNUAL REVIEW - SHORT AND LONG TERM PLANNING

Are records being kept to facilitate an annual review of the capabilities of the system: Y 🔀

If yes, is an annual review being done: Y 🛛 N 🗌

Have the following items been included in the Annual Review of the PWS for the purpose of short (2 years) and long (10 years) term planning:

Item	Y	N	Comments
Source	\square		
Storage	\square		
Distribution System	\square		
Population			
PWS Value			
Water Quality	\square		
Security/Vulnerability	\square		

Intended Capital Improvements for next 5 years:

1.) Complete line looping in the western part of the distribution system to minimize low water pressures.

2.) Obtain a permanent generator for East Wellfield

WATER QUALITY MONITORING

The Special Monitoring Evaluation was completed and the system is on an
appropriate monitoring schedule for Total Coliform: Y 🛛 N 🗔
There are 4 total coliform monitoring zones in Auburn.
If the system has an AO, are the requirements of the order being followed: Y \square N \square N/A \boxtimes
If not, describe:
If the AO is for nitrate, list locations of all nitrate postings:
If the system has a current MCL violation, is the system taking the required actions: Y \square N \square N/A \boxtimes
If not, describe:
Is compliance water testing equipment calibrated or standardized:Y 🛛 N 🗌 N/A 🗌
Are calibration records readily available: $Y \boxtimes N \Box$
What non-compliance water testing, if any, is routinely done: Fluoride and nitrates are measured daily at the water treatment
plant. Iron and manganese are measured weekly.
List any established water quality goals: Provide good safe water.
Comments on Water Quality Monitoring: Two Hach Pocked Colorimeters used for measuring chlorine residuals in the
distribution system are comparison-checked daily against the Hach DR/2800 Portable Spectrophotometer. The three ATI
Chlorine Analyzers used at the water treatment plant are also comparison checked against the DR/2800. The DR/2800 is
calibrated annually by a Hach representative who visits on site. This occurred most recently on 10/28/2015.

 $N \square$

DISTRIBUTION SYSTEM

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Page 1 of 2 This is a non-community PWS without a distribution system.						
Are there maps of the Distribution System(s): $Y \boxtimes$			N 🗌	Date of	last update:	Updated continuously by BPW
Are the following features shown on the distribution		ion map	(s):			
Line and Valve Locations:	Y 🖂	N 🗌			Comments:	
Line and Valve Sizes:	Y 🖂	N 🗌			Comments:	
Line Materials:	Y 🖂	N 🗌			Comments:	
Fire Hydrant Locations:	Y 🖂	N 🗌	N/A 🗌		Comments:	
Pressure-zone(s) Boundaries:	Y 🖂	N 🗌	N/A 🗌		Comments:	
Storage Facilities:	Y 🖂	N 🗌	N/A 🗌		Comments:	
Booster Pump Stations:	Y	N 🗌	N/A		Comments:	
Sampling sites and zone boundaries:	Y 🗌	N 🛛			Comments:	<u>Separate map</u>
Does system have dead end mains:	Y 🖂	N 🗌				
Do dead-ends have flushing capability:	Y 🖂	N 🗌				
Distribution system map comments: <u>Tw</u>	o pressu	re zones	are isolat	ted with	<u>shut-off valv</u>	es
Does the System retain records or docum	entation	on the	following	:		
O&M Distribution System Repairs:		Y 🖂	N 🗌			
Leak Detection / Water Loss:		Y 🖂	N 🗌	N/A	Wa	ter Loss last year: <u>15</u> %
R&R / Water Loss Comments:						
Does the system have a flushing program		Y	N 🗌		Frequency: <u>Annually</u>	
Does the system utilize directional flushing	ıg:		Y 🗌	N 🛛		Frequency:
Does the system utilize pigging:			Y 🗌	N 🛛		Frequency:
Are valves inspected and exercised:			Y 🖂	N 🗌		Frequency: <u>Biannually</u>
Are fire hydrants inspected and operated	l routine	ely:	Y 🖂	N 🗌	N/A 🗌	Frequency: <u>Annually</u>
Are sampling stations available:			Y 🖾			
Number: <u>Three sampling stations. Two of the stations are used for monitoring TTHMs and HAA5s</u>						
at far west end and far east end of the City						
Is there a <u>common</u> POE for more than one source: $Y \boxtimes N$						
If yes, how many sources per POE? <u>12 wells, 10 of which are in use at present</u>						
Are the POE's metered? Y \square N \square						
What is the pressure at each <u>common</u> POE? <u>n/a</u>						
Comments on POE's: Water Treatment Plant						

DISTRIBUTION SYSTEM Page 2 of 2

ф.:

Piping Materials	<u>Pipe Size</u>	Number of fee	t of pip	<u>e</u>	
Cast Iron Pre-1965	<u>4-inch</u>	<u>57183</u>			
PVC 1980 to Present	<u>4-inch</u>	<u>596</u>		Total 4-inch Pipe: 57,779 feet	
<u>Cast Iron Pre-1965</u>	<u>6-inch</u>	<u>31707</u>			
Ductile Iron 1970 to Present	<u>6-inch</u>	<u>3367</u>			
PVC 1980 to Present	6-inch	<u>3626</u>		Total 6-inch Pipe: 38,700 feet	
<u>Cast Iron Pre-1965</u>	<u>8-inch</u>	<u>15125</u>			
Ductile Iron 1970 to Present	8 <u>-inch</u>	<u>7517</u>			
PVC 1980 to Present	8-inch	<u>8967</u>		Total 8-inch Pipe: 31,609 feet	
<u>Cast Iron Pre-1965</u>	<u>10-inch</u>	<u>5023</u>			
Ductile Iron 1970 to Present	<u>10-inch</u>	<u>3667</u>			
PVC 1980 to Present	<u>10-inch</u>	<u>937</u>		Total 10-inch Pipe: 9,627 feet	
Ductile Iron 1970 to Present	<u>12-inch</u>	<u>13278</u>			
PVC 1980 to Present	<u>12-inch</u>	<u>1670</u>		Total 12-inch Pipe: 14,948 feet	
Ductile Iron 1970 to Present	<u>16-inch</u>	<u>8135</u>		Total 16-inch Pipe: 8,135 feet	
Ductile Iron 1970 to Present	<u>18-inch</u>	<u>641</u>		Total 18-inch Pipe: 641 feet	
PVC 1980 to Present	<u>24-inch</u>	<u>719</u>		Total 24-inch Pipe: 719 feet	
Comments: Pipeline dimensio	ns provided 6/9/	<u>2016</u>			
The following applies to all PWS					
Does the system have any lead service lines: Y 🛛 N 🗌 Unknown					
If yes, does the system have a removal or replacement method: Y 🛛 N 🗌 Describe: <u>Remove when found</u>					
Where does the systems responsibility	for the distribut	ion system end (corj	p stop, cu	arb stop, etc.): curb stop	
Where is the point of maximum water	residence time i	n the distribution sy	stem: <u>16</u>	5 th St. and F St., located in the	
east part of City at sampling station; 1	5 th St. and Q St.	located in the west	part of C	City at sampling station.	
Disinfectant Residual Check: POE	: <u>0.70</u> mg/L	Max. residence time	e: 0.23 m	ng/L, measured at 15 th St. and Q St.	
Frequency of checking distribution dis	infectant residu	al: <u>Four times per r</u>	nonth at	Total Coliform sample sites	
Test kit used: <u>Hach Colorimeter, one</u>	of two				
Typical distribution system pressure range (pressure fluctuation): <u>1</u> psi					
Pressure at highest elevation (lowest pressure): <u>32</u> psi Location (address or physical): <u>2012 24th Street, near ground</u>					
storage reservoir					
Are pressure readings routinely taken from the distribution system: Y \boxtimes N \square					
Frequency: Pressure readings at ground storage reservoir are collected continuously and monitored using SCADA					
Comments on Distribution System: <u>The City of Auburn water system has two pressure zones.</u> 14 th Street is roughly the <u>dividing line between the "north zone" and the "south zone."</u> <u>Point of Entry pressure of approximately 87 psi is the high pressure of the "north zone," and is maintained by the high service pumps at the water treatment plant.</u> <u>Water pressure measured at the ground storage tank at the time of the inspection was 35 psi, maintained by continuous operation of VFD booster pumps that supply the "south zone."</u>					
operation of (1) booster pumps may supply the					

CONTROL SYSTEMS

Age of Control System or Inst	allation Date: <u>Updated</u>	<u>2012</u> Co	ontrol Type: <u>SCAD</u> A	<u>Pres Xducer</u> <u>VFD</u>
Mode of Communications:	Phone: 🛛	Leased:		Owned: 🛛
	Radio: 🛛	Hard wire	1: 🗌	Other:
Is there a backup communica	tions system: Y 🖾 N 🗌] N/A 🗌 Desci	ibe: <u>Back-up comp</u>	iter at wastewater treatment plant
Is a UPS available: Y 🖂	N 🗌 If yes, at all sites?	?:Y⊠N□	Duration of ba	1.000 ckup: <u>2 hr</u>
Does control system automati	cally log system data:	Y 🖾 N		
If yes, what data is a	itomatically logged: <u>see l</u>	<u>pelow</u>		
Frequency of data log	gging: ten second interva	als		
Does control system generate	automatic reports:	Y 🖾 N		
If yes, what are the r	eports: <u>see below</u>			
Frequency of automa	tic reports: <u>continuous</u>			
Is there manual override cap	ability in the control syste	em: Y 🖾 🛛 N		
If yes, describe: <u>Hand-Off-Au</u>	to Switches at wells and	other locations		
Who has the authority to mal	ke set-point changes: Gra	ade 2 Water Op	erators Ken Swanso	<u>n</u>
Describe the security measure	es for the control system:	All sites are ke	pt locked when peor	le are not on duty.
Is a spare parts inventory ma	intained on hand: Y 🛛		omments:	
Comments on Control System	ns: <u>All input signals go t</u>	he the Main Cor	ntrols System located	at the water treatment plant.
Alarms provide audible warn	ing at the plant and dial	water operator	cellphones.	

SCADA monitors: Water level of two clearwells; water level at south reservoir; Operating pressure and flow (gpm) of high service pumps at the water treatment plant and the south reservoir; Well flow (gpm) at all wells; Water levels at Wells #1, #2, #6, #13 and #20 as of this time; High service pump run times; Filter run times; Backwash recycle pit levels; and all turbidity, temperature, pH, and free chlorine residual levels at the water treatment plant. Individual Filter Turbidity Levels are now being recorded continuously.

EMERGENCY ELECTRICAL POWER

Auburn BPW owns the following emergency electrical power equipment:

- 1. 250 KW Portable Generator
- 2. 40 KW Portable Generator
- 3. Stationary Generator located outside Water Treatment Plant dedicated to WTP Controls
- 4. 100 KW Stationary Generator located at 26th St. Reservoir and Booster Pump Station

The Water Treatment Plant can be operated with the large portable generator, above. The Reservoir and Booster Pump Station now have full back-up power.

Individual wells / well fields have the ability to be operated with the portable generators. Future plans call for a centrallylocated generator to power the East Well Field.

Well 2003-1 is the only well equipped with a ready-to-go generator connection and transfer switch at this time.

<u>SOURCE FACILITIES – GROUNDWATER SUPPLY FACILITIES</u> (Complete one sheet per source or well.)

Well ID #: 81-1 Well Common Name: Well #1	DNR Regis	stration #: G- <u>067(</u>	034A Well Status:	Active
Comments:				
If INACTIVE, is well disconnected from the system:	Y 🗌 N 🗌	Decommission	ed properly: Y	N 🗌
Is this well part of a combined POE to the distribution	on system:	Y 🛛 N 🗌 🛛 M	N/A 🗌 If yes, which	one: <u>002</u>
Frequency site is inspected by PWS: Weekly Des	cribe other:			
Is the well sealed properly at the surface: Y 🔀 🛛 N	Commer	nts:		
Casing extends min of 18"(CWS) or 12"(NCWS) abo	we well slab, flo	oor, or ground sur	face: Y 🛛 N 🗌	
Motor HP: <u>10</u> Pump Type: <u>Turb</u> W	ell Depth: <u>50'</u>	Well Casing Dia:	<u>24</u> "	
Screen Const. Type: SS Top of Screen Depth: <u>46.5</u> '	Casing T	Type: <u>Steel</u>	Pump Setting:	<u>45</u> '
Is the well vent termination and screening acceptable	e: Y 🖂	N 🗌 Size: <u>1'</u>	<u>Comments:</u>	
Well blow-off size: 2 1/2" Is blow-off	f properly capp	ed or screened:	Y 🛛 N 🗌	
Is a sampling tap available: Y 🖂 N 🗌 Is	the sample tap	smooth nosed: Y	(🛛 N 🗌	
Is a pressure gauge available: Y 🖾 N 🗌 Working:	Y 🖾 N 🗌	Observed pressur	e gauge reading: <u>33</u> p	si Static
Is a chemical injection tap available: Y 🗌 N	Chemica	ıl tap size:'	<u>.</u>	
Is an approved electrical outlet available for chemica	ıl tap: Y 🗌	N 🖂 🛛 I	s this a GFI outlet:	Y 🗌 N 🗍
Is well metered: Y 🖾 N 🗌 Type: <u>Propeller</u>	Size: <u>4"</u>	Make/Model:	Rockwell Serial #: 4	54968
Electric meter reading: Water met	ter reading: <u>80</u>	<u>644 x 1000</u> I	Hr. meter reading:	
Are drawdown readings taken routinely: Y 🖂 🛛 N	Frequen	cy: <u>weekly</u>	Airline Length: <u>45'</u>	
Static Water Level: 22.5' Pumping Water Level: 2	<u>6</u> ' Drawdow	n: <u>3.5</u> 'Avail. DD	:	
Are cross-connection requirements adequately met:	Y 🖂	N 🗌		
Are chemicals injected at the well: $Y \square N$	If yes, w	hat chemical(s): _		
Observed condition of piping and valving: Good, pa	int Ok and no o	corrosion		
Observed condition of electrical systems: <u>Good, ev</u>	erything appear	rs OK		
Is backup power available: Y 🔀 N 🗍 T	ype: <u>X</u> Descril	be Other: <u>portable</u>	e generators	
Size: Kwh Hp RPM for PTO or I	Belt Drive	If exercised, how	often? Under	r load Y 🗌 N 🗌
Is the facility well maintained and secure: $Y \triangleright$	N 🗌	If yes, describe: <u>w</u>	<u>vell house is kept locke</u>	<u>d</u>
If necessary, is appropriate signage in place: $Y \Box$	N 🗌	N/A 🖂		
Does well meet criteria for potential GWUDI: Y 🛛	N 🗌	Unknown 🗌		
Has the source been deemed to be GWUDI: Y	_ N ⊠	Date of determina	ation:	
Are there any encroachments on this well: Y	_ N ⊠	If yes, are they pr	e-existing or new:	Pre 🗌 New
Current well vulnerability rating: 🔲 Vulnerable	🛛 Non-V	ulnerable		
Comments on this well: <u>1. Water level transducer is</u>	installed here a	at this well. 2. W	ell is bermed to prever	it flooding.
3. No transfer switch at this location.				

Aquaguard Preventive Maintenace Well System Installation has been recently completed at this well.

<u>SOURCE FACILITIES – GROUNDWATER SUPPLY FACILITIES</u> (Complete one sheet per source or well.)

Well ID #: 81-2 Well Common Name: Well #2	DNR Regis	stration #: G- <u>067034B</u> Well Status: Active			
Comments:					
If INACTIVE, is well disconnected from the system: Y	□ N □	Decommissioned properly: Y 🗌 N 🗌			
Is this well part of a combined POE to the distribution s	ystem:	Y N N/A If yes, which one: <u>002</u>			
Frequency site is inspected by PWS: Weekly Descri	be other:				
Is the well sealed properly at the surface: Y 🖄 $$ N \square	Comme	nts:			
Casing extends min of 18"(CWS) or 12"(NCWS) above	well slab, flo	oor, or ground surface: Y 🛛 N 🗌			
Motor HP: <u>10</u> Pump Type: <u>Sub</u> Well	Depth: <u>47.5</u>	Well Casing Dia: <u>24</u> "			
Screen Const. Type: SS Top of Screen Depth: <u>43</u> 'Casir	ig Type: <u>Ste</u>	eel Pump Setting: <u>45</u> '			
Is the well vent termination and screening acceptable:	Y 🖂	N Size: <u>1''</u> Comments:			
Well blow-off size: <u>2 1/2"</u> Is blow-off pr	operly capp	ed or screened: Y 🖾 N 🗌			
Is a sampling tap available: Y 🖾 N 🗔 Is the	e sample tap	smooth nosed: Y 🖾 N 🗌			
Is a pressure gauge available: Y 🖂 N 🗌 Working: Y 🕻	🛛 N 🗌	Observed pressure gauge reading: <u>37</u> psi Static			
Is a chemical injection tap available: Y 🗌 N 🖂	Chemica	al tap size:!			
Is an approved electrical outlet available for chemical ta	р: Y 🗌	N \square Is this a GFI outlet: Y \square N \square			
Is well metered: Y 🖂 N 🗌 Type: <u>Propeller</u> Siz	e: <u>4''</u>	Make/Model: <u>Sensus</u> Serial #: <u>54964</u>			
Electric meter reading: Water meter	reading: <u>07</u>	2679 x 1000 gallon Hr. meter reading:			
Are drawdown readings taken routinely: Y 🛛 N 🗌	Frequen	cy: <u>weekly</u> Airline Length: <u>40'</u>			
Static Water Level: 22' Pumping Water Level: 27'	Drawdown	: <u>5</u> ' Avail. DD:			
Are cross-connection requirements adequately met:	Y	N 🗔			
Are chemicals injected at the well: $Y \square N \boxtimes$	If yes, w	hat chemical(s			
Observed condition of piping and valving: Good, paint	Ok and no	corrosion			
Observed condition of electrical systems: <u>Good, every</u>					
Is backup power available: Y 🛛 N 🗌 Type					
Size: Kwh Hp RPM for PTO or Belt	Drive	If exercised, how often? Under load Y 🗌 N 🗌			
Is the facility well maintained and secure: Y \boxtimes	N 🗌	If yes, describe: well house is kept locked			
If necessary, is appropriate signage in place: Y	N 🗌	N/A 🖾			
Does well meet criteria for potential GWUDI: Y 🔀	N 🗌	Unknown 🗌			
Has the source been deemed to be GWUDI: Y	N 🖾	Date of determination:			
Are there any encroachments on this well: $Y \square$	\mathbf{N}	If yes, are they pre-existing or new: 🗌 Pre 🗌 New			
Current well vulnerability rating: 🗌 Vulnerable					
Comments on this well: <u>1. Well is bermed to prevent f</u>	ooding. 2.	Sensus meter is newly installed. 3. No transfer switch			
at this time.					
Aquaguard Preventive Maintenance Well System Installation has been recently completed at this well. Vertical turbine pump					

has been replaced with submersible pump. Water -level transducer is newly installed. Has VFD.

SOURCE FACILITIES – GROUNDWATER SUPPLY FACILITIES

(Complete one sheet per source or well.)

Well ID #: 81-3 Well Common Name: Well #3 DNR Registration #: G-067034C Well Status: Active				
Comments:				
If INACTIVE, is well disconnected from the system: Y 🗌 N 🔲 Decommissioned properly: Y 🗌 N 🗌				
Is this well part of a combined POE to the distribution system: Y 🛛 N 🗌 N/A 🗌 If yes, which one: 002				
Frequency site is inspected by PWS: Weekly Describe other:				
Is the well sealed properly at the surface: Y 🖾 N 🗌 Comments:				
Casing extends min of 18"(CWS) or 12"(NCWS) above well slab, floor, or ground surface: Y 🛛 N 🗌				
Motor HP: <u>10</u> Pump Type: <u>Sub</u> Well Depth: <u>54'</u> Well Casing Dia: <u>24</u> "				
Screen Const. Type: SS Top of Screen Depth: <u>43</u> 'Casing Type: <u>Steel</u> Pump Setting: <u>40</u> '				
Is the well vent termination and screening acceptable: Y X N Size: <u>1"</u> Comments:				
Well blow-off size: <u>2 1/2''</u> Is blow-off properly capped or screened: Y 🛛 N 🗌				
Is a sampling tap available: Y 🛛 N 🗌 Is the sample tap smooth nosed: Y 🖾 N 🗌				
Is a pressure gauge available: Y 🛛 N 🗌 Working: Y 🖾 N 📄 Observed pressure gauge reading: 23 psi Static				
Is a chemical injection tap available: Y 🗌 N 🛛 Chemical tap size:'				
Is an approved electrical outlet available for chemical tap: Y 🗌 N 🖂 Is this a GFI outlet: Y 🗌 N 🗌				
Is well metered: Y 🖾 N 🗌 Type: <u>Propeller</u> Size: <u>4''</u> Make/Model: <u>Sensus</u> Serial #: <u>64962</u>				
Electric meter reading: Water meter reading: 10953 x 1000 gallon Hr. meter reading:				
Are drawdown readings taken routinely: Y 🖂 N 🗌 Frequency: <u>weekly</u> Airline Length: <u>40'</u>				
Static Water Level: <u>25</u> ' Pumping Water Level: <u>30</u> ' Drawdown: <u>5</u> ' Avail. DD:				
Are cross-connection requirements adequately met: Y 🖾 N 🗌				
Are chemicals injected at the well: Y 🗌 N 🔀 If yes, what chemical(s):				
Observed condition of piping and valving: Good, paint Ok and no corrosion				
Observed condition of electrical systems: <u>Good, everything appears OK</u>				
Is backup power available: Y 🛛 N 🗌 Type: X Describe Other: <u>portable generators</u>				
Size: Kwh Hp RPM for PTO or Belt Drive If exercised, how often? Under load Y 🗌 N 🗌				
Is the facility well maintained and secure: Y N N If yes, describe: well house is kept locked				
If necessary, is appropriate signage in place: Y 🗌 N 🗌 N/A 🔀				
Does well meet criteria for potential GWUDI: Y 🛛 N 🗌 Unknown 🗌				
Has the source been deemed to be GWUDI: Y 🗌 N 🔀 Date of determination:				
Are there any encroachments on this well: Y 🛛 N 🗌 If yes, are they pre-existing or new: 🛛 Pre 🗌 New				
Current well vulnerability rating: 🛛 Vulnerable 🗌 Non-Vulnerable				
Comments on this well: 1. Well is vulnerable due to fuel storage at nearby airport. 2. Private well at airport has been				
canned. 3. No transfer switch at this time.				

Aquaguard Preventive Maintenance Well System Installation has been recently completed at this well. Vertical turbine pump has been replaced with submersible pump. Water –level transducer is newly installed. Has VFD.

SOURCE FACILITIES – GROUNDWATER SUPPLY FACILITIES

(Complete one sheet per source or well.)

Well ID #: 81-4 Well Common Name: Well #4 DNR Registration #: G-067034D Well Status: Active				
Comments: Well is used extensively; Operates at 190 gpm				
If INACTIVE, is well disconnected from the system: Y 🗌 N 🗌 Decommissioned properly: Y 🗌 N 🛄				
Is this well part of a combined POE to the distribution system: Y 🛛 N 🗌 N/A 🗌 If yes, which one: <u>002</u>				
Frequency site is inspected by PWS: Weekly Describe other:				
Is the well sealed properly at the surface: Y 🛛 N 🗌 Comments:				
Casing extends min of 18"(CWS) or 12"(NCWS) above well slab, floor, or ground surface: Y 🛛 N 🗌				
Motor HP: 10Pump Type: TurbWell Depth: 46.5'Well Casing Dia: 24"				
Screen Const. Type: SS Top of Screen Depth: <u>36</u> 'Casing Type: <u>Steel</u> Pump Setting: <u>35</u> '				
Is the well vent termination and screening acceptable: Y 🛛 N 🗌 Size: <u>1''</u> Comments:				
Well blow-off size: 2 1/2" Is blow-off properly capped or screened: Y 🖾 N 🗌				
Is a sampling tap available: Y 🖾 N 🗌 Is the sample tap smooth nosed: Y 🖾 N 🗌				
Is a pressure gauge available: Y 🛛 N 🗌 Working: Y 🗌 N 📄 Observed pressure gauge reading: <u>39</u> psi Static				
Is a chemical injection tap available: Y 🗌 N 🖾 Chemical tap size:				
Is an approved electrical outlet available for chemical tap: Y 🗌 N 🔀 Is this a GFI outlet: Y 🗌 N 🗌				
Is well metered: Y 🛛 N 🗌 Type: <u>Propeller</u> Size: <u>4''</u> Make/Model: <u>Sensus</u> Serial #: <u>54961</u>				
Electric meter reading: Water meter reading: 14551 x 1000 gallon Hr. meter reading:				
Are drawdown readings taken routinely: Y 🛛 N 🗌 Frequency: weekly Airline Length: 35'				
Static Water Level: <u>6</u> ' Pumping Water Level: 10 Drawdown: <u>4</u> ' Avail. DD:				
Are cross-connection requirements adequately met: Y 🛛 N 🗌				
Are chemicals injected at the well: Y N N If yes, what chemical(s):				
Observed condition of piping and valving: Good, paint Ok and no corrosion				
Observed condition of electrical systems: Good, everything appears OK				
Is backup power available: $Y \boxtimes N \square$ Type: <u>X</u> Describe Other: <u>portable generators</u>				
Size: Kwh Hp RPM for PTO or Belt Drive If exercised, how often? Under load Y 🗌 N 🗌				
Is the facility well maintained and secure: Y 🛛 N 🗌 If yes, describe: well house is kept locked				
If necessary, is appropriate signage in place: Y 🗌 N 🗌 N/A 🔀				
Does well meet criteria for potential GWUDI: Y 🖾 N 🗌 Unknown 🗌				
Has the source been deemed to be GWUDI: Y \boxtimes N \square Date of determination: <u>11/20/2009</u>				
Are there any encroachments on this well: Y 🛛 N 🗌 If yes, are they pre-existing or new: 🖾 Pre 📋 New				
Current well vulnerability rating: 🛛 Vulnerable 🗌 Non-Vulnerable				
Comments on this well: 1. Well #4 was deemed to be Ground Water Under the Direct Influence of Surface Water (GWUDI)				
on 11/20/09 due to MPA results collected during July 2008 and April 2009. 2. Well #4 is vulnerable due to proximity to a				
private well. It is unknown whether or not chemicals are used at nearby grain storage facilities. 3. There is no transfer switch				
at this time.				

No rehabilitation; No VFD at this time.

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<u>SOURCE FACILITIES – GROUNDWATER SUPPLY FACILITIES</u> (Complete one sheet per source or well.)

Well ID #: 81-5 Well Common Name: Well #5	DNR Regis	stration #: G- <u>067</u>	034E Well Status:	Active
Comments:				
If INACTIVE, is well disconnected from the system:	Y 🗌 N 🗌	Decommission	ned properly: Y 🗌	N 🗌
Is this well part of a combined POE to the distributio	on system:	Y 🛛 N 🗌 I	N/A 🗌 If yes, which	one: <u>002</u>
Frequency site is inspected by PWS: Weekly Des				
Is the well sealed properly at the surface: Y 🛛 🛛 N	Commen	nts:		
Casing extends min of 18"(CWS) or 12"(NCWS) abo	we well slab, flo	oor, or ground sur	face: Y 🛛 N 🗌	
Motor HP: <u>10</u> Pump Type: <u>Turb</u> W	ell Depth: <u>40'</u>	Well Casing Dia:	<u>24</u> "	
Screen Const. Type: SS Top of Screen Depth: <u>33.75</u>	' Casing T	Type: <u>Steel</u>	Pump Setting:	<u>30</u> '
Is the well vent termination and screening acceptable	e: Y 🖂	N 🗌 Size: <u>1</u>	Comments:	
		ed or screened:	Y 🖾 N 🗌	
Is a sampling tap available: Y 🖂 N 🗌 Is	the sample tap	smooth nosed:	Y 🖾 N 🗌	
Is a pressure gauge available: Y 🛛 N 🗌 Working:				si Static
Is a chemical injection tap available: $Y \square N$				
Is an approved electrical outlet available for chemica	ıl tap: Y 🗌	N 🖾 🛛	Is this a GFI outlet:	Y 🗌 N 🗌
Is well metered: Y 🛛 N 🗌 Type: <u>Propeller</u>				
Electric meter reading: Water met	ter reading: <u>41</u>	515 x 1000 gallon	Hr. meter read	ling:
Are drawdown readings taken routinely: Y 🛛 N	Frequen	cy: <u>weekly</u>	Airline Length: <u>30'</u>	
Static Water Level: 8' Pumping Water Level: 15'	Drawdown:	<u>7</u> ' Avail. DD:		
Are cross-connection requirements adequately met:	Y	N 🗌		
Are chemicals injected at the well: $Y \square N$	🛛 If yes, w	hat chemical(s):		
Observed condition of piping and valving: Good, pa	int Ok and no	corrosion		
Observed condition of electrical systems: Good, eve	erything appea	<u>rs OK</u>		
Is backup power available: Y 🖂 N 🗌 T	ype: <u>X</u> Descril	be Other: <u>portabl</u>	e generators	
Size: Kwh Hp RPM for PTO or H	Belt Drive	If exercised, how	often? Under	·load Y 🗌 N 🗌
Is the facility well maintained and secure: Y 🔀				
If necessary, is appropriate signage in place: Y] N []	N/A 🖂		
Does well meet criteria for potential GWUDI: Y	N 🗌	Unknown 🗌		
Has the source been deemed to be GWUDI: Y	_ N⊠	Date of determina	ation:	
Are there any encroachments on this well: Y	3 N 🗌	If yes, are they p	re-existing or new: 🖂 🛛	Pre 🗌 New
Current well vulnerability rating: 🛛 Vulnerable	🗌 Non-V	ulnerable		
Comments on this well: Well #5 is vulnerable due to proximity to a private well and spetic tank. 2. There is no transfer				
switch at this time.				

Well 5 is next in line for installation of Aquaguard Preventive Maintenance Well System, replacement of vertical turbine pump with submersible pump, and installation of water –level transducer. Has AC Tech VFD.

<u>SOURCE FACILITIES – GROUNDWATER SUPPLY FACILITIES</u> (Complete one sheet per source or well.)

Well ID #: 81-6 Well Common Name: Well #6 DNR Registration #: G-067034F Well Status: Active				
Comments:				
If INACTIVE, is well disconnected from the system: Y 🗌 N 🛄 Decommissioned properly: Y 🗌 N 🗌				
Is this well part of a combined POE to the distribution system: Y 🛛 N 🗌 N/A 🗌 If yes, which one: 002				
Frequency site is inspected by PWS: Weekly Describe other:				
Is the well sealed properly at the surface: Y 🛛 N 🗌 Comments:				
Casing extends min of 18"(CWS) or 12"(NCWS) above well slab, floor, or ground surface: Y 🛛 N 🗌				
Motor HP: 10Pump Type: SubWell Depth: 44'Well Casing Dia: 20"				
Screen Const. Type: SS Top of Screen Depth: <u>38</u> 'Casing Type: <u>Steel</u> Pump Setting: <u>35</u> '				
Is the well vent termination and screening acceptable: Y 🛛 N 🗌 Size: <u>1''</u> Comments:				
Well blow-off size: $2 \frac{1}{2}$ Is blow-off properly capped or screened: Y \times N \square				
Is a sampling tap available: Y 🖾 N 🗌 Is the sample tap smooth nosed: Y 🖾 N 🗌				
Is a pressure gauge available: Y 🛛 N 🗌 Working: Y 🖾 N 📄 Observed pressure gauge reading: 24 psi Dynamic				
Is a chemical injection tap available: Y 🗌 N 🖾 Chemical tap size:'				
Is an approved electrical outlet available for chemical tap: Y 🗌 N 🖂 Is this a GFI outlet: Y 🗌 N 🗌				
Is well metered: Y X N Type: <u>Propeller</u> Size: <u>4''</u> Make/Model: <u>Sensus</u> Serial #: <u>54959</u>				
Electric meter reading: <u>4894 kwh</u> Water meter reading: <u>47364 x 1000 gallon</u> Hr. meter reading:				
Are drawdown readings taken routinely: Y 🛛 N 🗌 Frequency: weekly Airline Length: 35'				
Static Water Level: <u>12</u> ' Pumping Water Level: <u>18</u> ' Drawdown: <u>6</u> ' Avail. DD:				
Are cross-connection requirements adequately met: $Y \boxtimes N \Box$				
Are chemicals injected at the well: Y I N X If yes, what chemical(s):				
Observed condition of piping and valving: Good, paint Ok and no corrosion				
Observed condition of electrical systems: <u>Good, everything appears OK</u>				
Is backup power available: Y X N Type: X Describe Other: <u>portable generators</u>				
Size: Kwh Hp RPM for PTO or Belt Drive If exercised, how often? Under load Y 🗌 N 🗌				
Is the facility well maintained and secure: Y 🛛 N 🗌 If yes, describe: well house is kept locked				
If necessary, is appropriate signage in place: Y 🗌 N 🗍 N/A 🖂				
Does well meet criteria for potential GWUDI: Y 🛛 N 🗌 Unknown 🗌				
Has the source been deemed to be GWUDI: Y 🗌 N 🔀 Date of determination:				
Are there any encroachments on this well: Y 🗌 N 🔀 If yes, are they pre-existing or new: 🗌 Pre 🗌 New				
Current well vulnerability rating: 🗌 Vulnerable 🛛 Non-Vulnerable				
Comments on this well: 1. Well has water level sensor for SCADA monitoring. 2 A new submersible pump was installed to				
replace an existing vertical turbine pump. 3. New Sensus meter installed. (All three improvements were completed prior to				
the Sanitary Survey of 4-5-13) 4. A common electrical meter that serves the seven east wells is located here. 5. There is no				
transfer switch at this time				

The electrical power configuration at this location could be used to feed all (six) downstream wells using one emergency power generator.

SOURCE FACILITIES – GROUNDWATER SUPPLY FACILITIES

(Complete one sheet per source or well.)

Well ID #: 89-7 Well Common Name: Well #7	DNR Registration #: G-072068 Well Status: Inactive		
Comments:			
If INACTIVE, is well disconnected from the system: Y	□ N □ Decommissioned properly: Y □ N □		
Is this well part of a combined POE to the distribution s	ystem: Y 🛛 N 🗌 N/A 🗌 If yes, which one: <u>002</u>		
Frequency site is inspected by PWS: Weekly Descri	be other:		
Is the well sealed properly at the surface: Y \boxtimes N \square	Comments:		
Casing extends min of 18"(CWS) or 12"(NCWS) above	well slab, floor, or ground surface: Y 🛛 N 🗌		
Motor HP: <u>15</u> Pump Type: <u>Turb</u> Well	Depth: <u>45'</u> Well Casing Dia: <u>18</u> "		
Screen Const. Type: SS Top of Screen Depth: <u>48.5</u> '	Casing Type: <u>Steel</u> Pump Setting: <u>45</u> '		
Is the well vent termination and screening acceptable:	Y ⊠ N □ Size: <u>1''</u> Comments:		
Well blow-off size:2 1/2"Is blow-off pr	operly capped or screened: Y 🛛 N 🗌		
Is a sampling tap available: Y 🛛 N 🗌 Is the	e sample tap smooth nosed: Y 🛛 N 🗌		
Is a pressure gauge available: Y 🖂 N 🗌 Working: Y [N Dobserved pressure gauge reading: <u>16</u> psi Static		
Is a chemical injection tap available: Y 🗌 N 🖂	Chemical tap size:		
Is an approved electrical outlet available for chemical ta	$\mathbf{Ap: Y \boxtimes N \square} \qquad \qquad \mathbf{Is this a GFI outlet: Y \square N \square}$		
Is well metered: Y 🛛 N 🗌 Type: <u>Propeller</u> Siz	e: <u>4''</u> Make/Model: <u>McCrometer</u> Serial #: <u>894697</u>		
Electric meter reading: Water meter	reading: <u>39965 x 1000 gallons</u> Hr. meter reading: <u>23837.8</u>		
Are drawdown readings taken routinely: Y 🖄 N 🗌	Frequency: weekly Airline Length: 45'		
Static Water Level:' Pumping Water Level:'	Drawdown:' Avail. DD:'		
Are cross-connection requirements adequately met:	Y 🖾 N 🗔		
Are chemicals injected at the well: $Y \square N \boxtimes$	If yes, what chemical(s):		
Observed condition of piping and valving: Good, paint	Ok and no corrosion		
Observed condition of electrical systems: Good, every	thing appears OK		
Is backup power available: Y 🛛 N 🗌 Type	: X Describe Other: portable generators		
Size: Kwh Hp RPM for PTO or Belt	Drive If exercised, how often? Under load Y 🗌 N 🗌		
Is the facility well maintained and secure: $Y \boxtimes$	N If yes, describe: well house is kept locked		
If necessary, is appropriate signage in place: Y	N 🗔 N/A 🖂		
Does well meet criteria for potential GWUDI: Y 🔀	N Unknown		
Has the source been deemed to be GWUDI: Y	N 🖂 Date of determination:		
Are there any encroachments on this well: Y	N \boxtimes If yes, are they pre-existing or new: \Box Pre \Box New		
Current well vulnerability rating: 🔲 Vulnerable	Non-Vulnerable		
Comments on this well: <u>1. Well is bermed to prevent fl</u>	ooding. 2. There is no transfer switch at this time.		

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This is a previous record.

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Well #7 and Well #18 are permanantly out of service as of this Sanitary Survey

SOURCE FACILITIES – GROUNDWATER SUPPLY FACILITIES

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(Complete one sheet per source or well.)

Well ID #: 46-1Well Common Name: Well #11DNR Registration #: G-063101DWell Status: Active	
Comments: Well is located in northwest part of City, near Nursing Home.	
If INACTIVE, is well disconnected from the system: Y 🗌 N 📄 Decommissioned properly: Y 🗌 N 🗌	
Is this well part of a combined POE to the distribution system: Y 🛛 N 🗌 N/A 🗌 If yes, which one: 🙆	<u>)2</u>
Frequency site is inspected by PWS: Weekly Describe other:	
Is the well sealed properly at the surface: Y 🛛 N 🗌 Comments:	
Casing extends min of 18"(CWS) or 12"(NCWS) above well slab, floor, or ground surface: Y 🛛 N 🗌	
Motor HP: <u>7.5</u> Pump Type: <u>Turb</u> Well Depth: <u>44'</u> Well Casing Dia: <u>18</u> "	
Screen Const. Type: PVC-Slot Top of Screen Depth: <u>32</u> 'Casing Type: <u>PVC</u> Pump Setting: <u>40</u> '	
Is the well vent termination and screening acceptable: $Y \boxtimes N \square$ Size: <u>1/2</u> " Comments:	
Well blow-off size:2"Is blow-off properly capped or screened:Y 🖂N 🗌	
Is a sampling tap available: Y 🗌 N 🖾 Is the sample tap smooth nosed: Y 🔲 N 🗔	
Is a pressure gauge available: Y 🖾 N 🗌 Working: Y 🖾 N 📄 Observed pressure gauge reading: <u>38</u> psi Statio	
Is a chemical injection tap available: Y 🗌 N 🖾 Chemical tap size:	
Is an approved electrical outlet available for chemical tap: Y 🗌 N 🖂 Is this a GFI outlet: Y 🗌	N 🗌
Is well metered: Y X N Type: <u>Propeller</u> Size: <u>3"</u> Make/Model: <u>Sensus</u> Serial #: <u>54966</u>	
Electric meter reading: 32061 kwhWater meter reading: 194384 x 100 gallonHr. meter reading:	
Are drawdown readings taken routinely: Y 🛛 N 🗌 Frequency: weekly Airline Length: 34'	
Static Water Level: 11' Pumping Water Level: 15' Drawdown: 4' Avail. DD:	
Are cross-connection requirements adequately met: Y 🖾 N 🗔	
Are chemicals injected at the well: $Y \square N \boxtimes If$ yes, what chemical(s):	
Observed condition of piping and valving: Good, paint Ok and no corrosion	
Observed condition of electrical systems: <u>Good, everything appears OK</u>	
Is backup power available: Y 🛛 N 🗌 Type: X Describe Other: <u>portable generators</u>	
Size: Kwh Hp RPM for PTO or Belt Drive If exercised, how often? Under load	/ 🗌 N 🗌
Is the facility well maintained and secure: Y 🛛 N 🗌 If yes, describe: well house is kept locked	
If necessary, is appropriate signage in place: Y 🗌 N 🗍 N/A 🔀	
Does well meet criteria for potential GWUDI: Y 🗌 N 🗍 Unknown 🔀	
Has the source been deemed to be GWUDI: Y 🗌 N 🖾 Date of determination:	
Are there any encroachments on this well: Y 🛛 N 🗌 If yes, are they pre-existing or new: 🖂 Pre] New
Current well vulnerability rating: 🛛 Vulnerable 🗌 Non-Vulnerable	
Comments on this well: Has VFD and a fairly new water meter. There is no water level transducer nor transfer sy	<u>vitch at this</u>
location.	

SOURCE FACILITIES – GROUNDWATER SUPPLY FACILITIES (Complete one sheet per source or well.)

DNR Registration #: G-063102A Well Status: Inactive Well ID #: 57-2 Well Common Name: Well #18 Comments: Last operation of this well was in 2012. Electricity and pupp have been removed. Decommissioned properly: $Y \square N \square$ If INACTIVE, is well disconnected from the system: Y I N Is this well part of a combined POE to the distribution system: N \square N/A \square If yes, which one: <u>002</u> Y⊠ Frequency site is inspected by PWS: Other Describe other: Well not used Is the well sealed properly at the surface: Y N N Comments: Casing extends min of 18" (CWS) or 12" (NCWS) above well slab, floor, or ground surface: Y $N \square$ Well Depth: 46' Well Casing Dia: 18" Motor HP: 7.5 Pump Type: Turb Screen Const. Type: X Top of Screen Depth: <u>31</u>'Casing Type: <u>Steel</u> Pump Setting: 45' Y⊠ N 🗌 Size: 1/2" Comments: _____ Is the well vent termination and screening acceptable: Is blow-off properly capped or screened: $Y \boxtimes N \square$ Well blow-off size: 2" Y 🖂 N \square Is the sample tap smooth nosed: Y \boxtimes N \square Is a sampling tap available: Is a pressure gauge available: Y 🛛 N 🗋 Working: Y 🗌 N 🖾 Observed pressure gauge reading: _____ psi X Y N K Chemical tap size: Is a chemical injection tap available: Is an approved electrical outlet available for chemical tap: Y 🗌 Is this a GFI outlet: Y $N \square$ N 🖂 Serial #: 96303733 Is well metered: Y X N Type: Turbine Size: 3" Make/Model: Badger Hr. meter reading: n/a Water meter reading: n/a Electric meter reading: Are drawdown readings taken routinely: Y 🗌 N 🛛 Frequency: _____ Airline Length: 40' Static Water Level: _____' Pumping Water Level: ____' Drawdown: ____' Avail. DD: ____' Are cross-connection requirements adequately met: Y 🛛 $N \square$ ΥΠ $N \boxtimes$ If yes, what chemical(s): Are chemicals injected at the well: Observed condition of piping and valving: Good, paint Ok and no corrosion Observed condition of electrical systems: <u>Electricity disconnected</u> Υ $N \square$ Type: X Describe Other: na/ Is backup power available: If exercised, how often ____? Under load Y 🗌 N 🗌 Size: ____ Kwh ____ Hp ____ RPM for PTO or Belt Drive Y 🖂 N 🗌 If yes, describe: well house kept locked Is the facility well maintained and secure: Y 🗌 N 🗌 N/AIf necessary, is appropriate signage in place: Y 🖂 N 🗌 Unknown Does well meet criteria for potential GWUDI: Y 🗌 $N \boxtimes$ Date of determination: Has the source been deemed to be GWUDI: If yes, are they pre-existing or new: Pre New ΥΠ N 🖂 Are there any encroachments on this well: Current well vulnerability rating: Vulnerable Non-Vulnerable Comments on this well: Well house is built of concrete block and is raised six feet above ground level.

This is a previous record.

Well #7 and Well #18 are permanantly out of service as of this Sanitary Survey

<u>SOURCE FACILITIES – GROUNDWATER SUPPLY FACILITIES</u> (Complete one sheet per source or well.)

Well ID #: 64-1 Well Common Name: Well #	<u>19</u> DN	NR Regist	ration #: G- <u>063</u>	<u>102B</u>	Well Status:	Active	
Comments:							
If INACTIVE, is well disconnected from the system							
Is this well part of a combined POE to the distribu	tion syste	em: Y		N/A 🗌	If yes, which	one: <u>002</u>	
Frequency site is inspected by PWS: Weekly D	escribe o	other:					
Is the well sealed properly at the surface: Y 🔀	N 🗌 🛛	Comment	ts:				
Casing extends min of 18"(CWS) or 12"(NCWS) a	bove well	l slab, floo	or, or ground sur	face:	Y 🛛 N 🗌		
Motor HP: <u>7.5</u> Pump Type: <u>Turb</u>	Well Dep	pth: <u>45'</u> V	Vell Casing Dia:	<u>18</u> "			
Screen Const. Type: SS Top of Screen Depth: <u>37</u> '	Casing T	Гуре: <u>Stee</u>	<u>il</u> 1	Pump Se	tting: <u>45</u> '		
Is the well vent termination and screening acceptal	ble:	Y 🛛 🛛 N	Size: <u>1</u> /	/2"	Comments:		
Well blow-off size: <u>2"</u> Is blow-off	off prope	erly cappe	d or screened:	Y 🛛 🛛	N 🗌		
Is a sampling tap available: Y 🖾 N 🗌	Is the sam	mple tap s	smooth nosed:	Y 🛛 🗆	N 🗌		
Is a pressure gauge available: Y 🔀 N 🗌 Working	g: Y 🛛 I	N 🗌 🛛 C	Observed pressur	e gauge	reading: <u>30</u> p	si Dynami	c
Is a chemical injection tap available: Y	NX	Chemical	tap size:	-			
Is an approved electrical outlet available for chemi	ical tap: `	Y 🖾 🛛 N	۲ [] ۲	ls this a (GFI outlet:	Y 🗌 N	
Is well metered: Y 🛛 N 🗌 Type: <u>Turbine</u>	Size: 3	3"	Make/Model:	<u>Sensus</u>	Serial #: 5	<u>54958</u>	
Electric meter reading: <u>65457 kwh</u> Water m	neter read	ding: <u>495</u>	837 x 100 gallon	. 1	Hr. meter read	ling:	
Are drawdown readings taken routinely: Y 🔀	N 🗌 🛛	Frequenc	y: <u>weekly</u>	Airline L	length: <u>40'</u>		
Static Water Level: 19' Pumping Water Level: 2	2 <u>1</u> ' Dra	awdown: 2	2' Avail. DD:				
Are cross-connection requirements adequately me	t:	Y 🖾 🛛 N	1				
Are chemicals injected at the well: $Y \square$	N	If yes, wh	at chemical(s):				
Observed condition of piping and valving: Good,	paint Ok	and no co	orrosion				
Observed condition of electrical systems: <u>Good</u> , e	everythin	ng appears	<u>s OK</u>				
Is backup power available: Y 🖾 N 🗌	Туре: <u>Х</u>	<u>(</u> Describe	e Other: <u>portabl</u>	e genera	<u>tors</u>		
Size: Kwh Hp RPM for PTO of	r Belt Dri	ive I	f exercised, how	often	? Under	·load Y[] N []
Is the facility well maintained and secure: Y	N N	I	f yes, describe: <u>v</u>	vell hous	<u>e is kept locke</u>	<u>d</u>	
If necessary, is appropriate signage in place: Y	□ N		N/A 🖂				
Does well meet criteria for potential GWUDI: Y	N N	τ τ	J nknown				
Has the source been deemed to be GWUDI: Y	□ N		Date of determina	ation: _			
Are there any encroachments on this well: Y	N	I I	f yes, are they pi	re-existin	ng or new: 🔲 🛛	Pre 🗌 I	New
Current well vulnerability rating: 🔲 Vulnerable	\boxtimes	🛛 Non-Vu	Inerable				
Comments on this well: <u>1. Well house is built of c</u>	concrete	block and	is raised six feet	t above g	round level. 2	. There is	<u>, no</u>
transfer switch. 3. Well is equipped with AC Tech	<u>ı VFD.</u>						

SOURCE FACILITIES – GROUNDWATER SUPPLY FACILITIES

(Complete one sheet per source or well.)

Well ID #: 66-1 Well Common Name: Well #20 D	DNR Registration #: G- <u>063102C</u> Well Status: Active
Comments:	
If INACTIVE, is well disconnected from the system: Y] N 🗌 Decommissioned properly: Y 🗌 N 🗌
Is this well part of a combined POE to the distribution sys	tem: $Y \boxtimes N \square N/A \square$ If yes, which one: <u>002</u>
Frequency site is inspected by PWS: Weekly Describe	other:
Is the well sealed properly at the surface: $Y \boxtimes N \square$	Comments:
Casing extends min of 18"(CWS) or 12"(NCWS) above we	ell slab, floor, or ground surface: Y 🛛 N 🗌
Motor HP: <u>7.5</u> Pump Type: <u>Turb</u> Well De	epth: <u>45.5'</u> Well Casing Dia: <u>18</u> "
Screen Const. Type: SS Top of Screen Depth: <u>38</u> 'Casing	Type: SteelPump Setting: 37.5'
Is the well vent termination and screening acceptable:	Y ⊠ N □ Size: <u>1/2''</u> Comments:
Well blow-off size: <u>2"</u> Is blow-off prop	perly capped or screened: Y 🛛 N 🗌
Is a sampling tap available: $Y \boxtimes N \square$ Is the same	ample tap smooth nosed: Y 🖂 🛛 N 🗌
Is a pressure gauge available: Y \boxtimes N \square Working: Y \square	N \boxtimes Observed pressure gauge reading: <u>32</u> psi Static
Is a chemical injection tap available: $Y \square N \boxtimes$	Chemical tap size:
Is an approved electrical outlet available for chemical tap:	: Y \square N \boxtimes Is this a GFI outlet: Y \square N \square
Is well metered: Y 🖾 N 🗌 Type: <u>Turbine</u> Size:	<u>3"</u> Make/Model: <u>Sensus</u> Serial #: <u>54968</u>
Electric meter reading: <u>84543 kwh</u> Water meter re	ading: <u>648722 x 100 gallon</u> Hr. meter reading:
Are drawdown readings taken routinely: Y 🖄 N 🗌	Frequency: weekly Airline Length: 40'
Static Water Level: 24' Pumping Water Level: 31' De	rawdown: <u>7</u> ' Avail. DD:
Are cross-connection requirements adequately met:	$Y \boxtimes N \square$
Are chemicals injected at the well: $Y \square N \boxtimes$	If yes, what chemical(s):
Observed condition of piping and valving: Good, paint O	k and no corrosion
Observed condition of electrical systems: <u>Good, everything</u>	ing appears OK
Is backup power available: Y 🖂 N 🗌 Type:	X Describe Other: <u>portable generators</u>
Size: Kwh Hp RPM for PTO or Belt D	rive If exercised, how often? Under load Y 🗌 N 🗌
Is the facility well maintained and secure: $Y \boxtimes P$	N If yes, describe: well house is kept locked
If necessary, is appropriate signage in place: Y	\mathbf{N} \square \mathbf{N}/\mathbf{A} \boxtimes
Does well meet criteria for potential GWUDI: Y	N 🗌 Unknown 🛄
Has the source been deemed to be GWUDI: Y	N \boxtimes Date of determination:
Are there any encroachments on this well: $Y \square P$	N 🖂 If yes, are they pre-existing or new: \Box Pre \Box New
Current well vulnerability rating: 🔲 Vulnerable	Non-Vulnerable
Comments on this well:	
Aquaguard Preventive Maintenance Well System Installa	tion has been completed at this well. Vertical turbine pump has been
replaced with submersible pump. Water -level transduce	r is installed. Has AC Tech VFD.

SOURCE FACILITIES - GROUNDWATER SUPPLY FACILITIES

(Complete one sheet per source or well.)

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Well ID #: <u>2003-1</u> Well Common Name: <u>Well #13</u> DNR Registration #: G- <u>126226</u> Well Status: Active
Comments:
If INACTIVE, is well disconnected from the system: Y 🗌 N 🔲 Decommissioned properly: Y 🗌 N 🗌
Is this well part of a combined POE to the distribution system: Y 🛛 N 🗌 N/A 🗌 If yes, which one: 002
Frequency site is inspected by PWS: Weekly Describe other:
Is the well sealed properly at the surface: Y 🛛 N 🗌 Comments:
Casing extends min of 18"(CWS) or 12"(NCWS) above well slab, floor, or ground surface: Y 🛛 N 🗌
Motor HP: 15Pump Type: SubWell Depth: 48.5'Well Casing Dia: 36"
Screen Const. Type: SS Top of Screen Depth: <u>38.5</u> ' Casing Type: <u>Steel</u> Pump Setting: <u>38.5</u> '
Is the well vent termination and screening acceptable: Y \boxtimes N \square Size: <u>1</u> " Comments:
Well blow-off size: <u>4''</u> Is blow-off properly capped or screened: Y \boxtimes N \square
Is a sampling tap available: Y 🖾 N 🗌 Is the sample tap smooth nosed: Y 🖾 N 🗌
Is a pressure gauge available: Y 🛛 N 🗌 Working: Y 🖾 N 🗌 Observed pressure gauge reading: 22 psi Dynamic
Is a chemical injection tap available: Y 🛛 N 🗌 Chemical tap size: <u>3/4''</u>
Is an approved electrical outlet available for chemical tap: Y 🗌 N 🖾 Is this a GFI outlet: Y 🗌 N 🗌
Is well metered: Y 🛛 N 🗌 Type: <u>Mag Meter</u> Size: <u>6''</u> Make/Model: <u>Sparling</u> Serial #: <u>M142860410</u>
Electric meter reading: Water meter reading: 134639 x 1000 gallon Hr. meter reading:
Are drawdown readings taken routinely: Y 🛛 N 🗌 Frequency: <u>weekly</u> Airline Length:'
Static Water Level: <u>16</u> ' Pumping Water Level: <u>31</u> ' Drawdown: <u>15</u> ' Avail. DD:'
Are cross-connection requirements adequately met: Y 🛛 N 🗌
Are chemicals injected at the well: Y 🗌 N 🖾 If yes, what chemical(s):
Observed condition of piping and valving: Excellent, new or fairly new paint, no corrosion
Observed condition of electrical systems: <u>Excellent, all boxes covered, no exposed wire</u>
Is backup power available: Y 🛛 N 🗌 Type: X Describe Other: <u>Portable generators are available. Well has a</u>
generator connection and transfer switch
Size: Kwh Hp RPM for PTO or Belt Drive If exercised, how often? Under load Y 🗌 N 🗌
Is the facility well maintained and secure: Y 🛛 N 🗌 If yes, describe: well house is kept locked
If necessary, is appropriate signage in place: Y 🗌 N 🗌 N/A 🛛
Does well meet criteria for potential GWUDI: Y 🗌 N 🗌 Unknown 🛛
Has the source been deemed to be GWUDI: Y 🗌 N 🖾 Date of determination:
Are there any encroachments on this well: Y 🗌 N 🛛 If yes, are they pre-existing or new: 🗌 Pre 🗌 New
Current well vulnerability rating: 🗌 Vulnerable 🛛 Non-Vulnerable
Comments on this well: 1. Well is elevated approximately eleven feet above grade on a concrete base in order to minimize
the effects of flooding. 2. Well has water level sensor for SCADA monitoring and is equipped with ABB VFD's

Comments: 9th & G Pumps 1 and 2 are located at the booster pump house at the north side of Clearwell No. 1 and 2.. The two pumps were the system's High Service Pumps z See note below Comments 400 gpm 770 gpm 135 gpm Pump 4 = Toshiba Electromagnetic, 4-inch 700 gpm 400 gpm 360 gpm 350 gpm 700 gpm 225 gpm Pump 2 = Toshiba Electromagnetic, 3-inch Ventilation: Y Describe security measures: facilities kept locked **Comments:** at the time when the old water treatment plant was in operation. Pumps 1 and 2 are operational but not used at the present time. VT = Vertical Turbine Backup Power S = SubmersibleYes Yes Yes Yes Yes Yes Yes Yes °Z ů × ΥN Z Signage: Y N \boxtimes If yes, what are the provisions for facility access: Prog. Yes Yes Yes Yes Yes Yes Yes Yes No N PM °Z Are spare-parts on hand for repairs: × Pump 3 = Toshiba Electromagnetic, 4-inch ES = End Suction (vertical) Speed C = Centrifugal Pump Yes Yes Yes Yes Yes Yes Yes Var. ů No No å × Pump 1 = Sensus Omni, 1-inch Motor Ξ Υ 0 = 0ther Z ЧH 10 15 25 60 09 30 40 40 5 Z Comments: \boxtimes Lighting: Y 🛛 × high service Application SR = Helical or Spiral Rotor RT = Regenerative Turbine SC = Split Case (horizontal) Interior Drainage: N/A Pump Type ΓV Z Ľ Γ Γ ΓV Γ \mathbf{VT} Γ Γ × Are the following adequate for operation at all facilities: N Comments: Water Meters in use at the 26th Street Pumping Station: Z Are the pump facilities located in a flood plain: Y \square Are all drains and vents properly screened: Y oxtimes I26th Street Reservoir Pump 3 26th Street Reservoir Pump 2 26th Street Reservoir Pump 4 26th Street Reservoir Pump 1 PDP = Positive Displacement Pump Finished Water Pump 2 Finished Water Pump 3 **Finished Water Pump 4** Finished Water Pump 1 Type of Heating: Electric 9th & G Pump 2 9th & G Pump 1 RP = Reciprocating Pump Facility Name Are all pumps operational: $\, \, {
m Y} oxtimes \,$ $\mathbf{E} = \mathbf{E} \mathbf{j} \mathbf{e} \mathbf{c} \mathbf{t} \mathbf{o} \mathbf{r} \mathbf{P} \mathbf{u} \mathbf{m} \mathbf{p}$ Type Codes: 10 S 9 00 9 ŝ 4 1 2

DISTRIBUTION SYSTEM PUMPS AND PUMP FACILITIES

(Booster Pump Stations, etc. Excluding Well and Other Source Water Facilities)

PUMPS AND PUMP FACILITIES USED AT WATER TREATMENT PLANT (Booster Pump Stations, etc. Excluding Well and Other Source Water Facilities)

Facility NamePumpApplicationMotorVar.PMBackupComments1Polishing Chlorine Booster PumpCbooster1YesYesYes16 gpm1Fluished Filter Effluent Pump 1Ctransfer10YesYesYesEst 1000 gpm2Finished Filter Effluent Pump 2Ctransfer10YesYesYesEst 1000 gpm3Finished Filter Effluent Pump 2Ctransfer10YesYesYesEst 1000 gpm4Filter Backwash Pump 1VTtransfer10YesYesYes2625 gpm4Filter Backwash Pump 1VTtransfer30YesYes2625 gpm5Backwash Pump 1VTtransfer30YesYesYes2625 gpm6Backwash Recycle Pump 1Stransfer10YesYesYes2625 gpm7Backwash Recycle Pump 1Stransfer10YesYesYes2625 gpm6Backwash Recycle Pump 2Stransfer10YesYesYes2625 gpm7Backwash Recycle Pump 1Stransfer10YesYesYes2625 gpm7Backwash Recycle Pump 2Stransfer10YesYesYes2625 gpm7Backwash Maste Pump 2Stransfer10YesYesYes200 gpm7Backwash Waste Pump 2<									 		 	
Facility NamePumpApplicationMotorVar.PMTypeTypeTypeFinePPOISPPOISPPOISPolishing Chlorine Booster PumpCbooster1YesYesFinished Filter Effluent Pump 1Ctransfer10YesYesFinished Filter Effluent Pump 2Ctransfer10YesYesFinished Filter Effluent Pump 3Ctransfer10YesYesFilter Backwash Pump 1YTtransfer30YesYesFilter Backwash Recycle Pump 1Stransfer10YesYesBackwash Recycle Pump 1Stransfer10YesYesBackwash Waste Pump 1Stransfer10YesYesBackwash Waste Pump 1Stransfer2.7YesYesBackwash Waste Pump 2Stransfer2.7YesYesBackwash Waste Pump 2Stransfer2.7YesYesBackwash Waste Pump 2Stransfer2.7YesYesBackwash Waste Pump 2Stransfer2.7YesYesBackwash Was	Comments	16 gpm	Est 1000 gpm	Est 1000 gpm	Est 1000 gpm		2625 gpm	2625 gpm	210 gpm	210 gpm	200 gpm	200 gpm
Facility NamePumpApplicationMotorVar.TypeTypeHPSpeedPolishing Chlorine Booster PumpCbooster1YesFinished Filter Effluent Pump 1Ctransfer10YesFinished Filter Effluent Pump 2Ctransfer10YesFinished Filter Effluent Pump 2Ctransfer10YesFinished Filter Effluent Pump 2Ctransfer10YesFinished Filter Effluent Pump 2VTtransfer10YesFilter Backwash Pump 1VTtransfer30YesFilter Backwash Pump 2VTtransfer30YesBackwash Recycle Pump 2Stransfer10YesBackwash Waste Pump 1Stransfer10YesBackwash Waste Pump 2Stransfer2.7YesBackwash Waste Pump 2Stransfer2.7YesBackwash Waste Pump 2Stransfer2.7Yes	Backup Power	Yes	Yes	Yes	Yes		Yes	Yes	Yes	Yes	Yes	Yes
Facility NamePumpApplicationMotorTypeTypeTypeMotorPolishing Chlorine Booster PumpCbooster1Finished Filter Effluent Pump 1Ctransfer10Finished Filter Effluent Pump 2Ctransfer10Finished Filter Effluent Pump 2Ctransfer10Finished Filter Effluent Pump 2Ctransfer10Finished Filter Effluent Pump 2VTtransfer10Finished Filter Effluent Pump 2VTtransfer10Backwash Pump 1VTtransfer30Filter Backwash Pump 2VTtransfer30Backwash Recycle Pump 2Stransfer10Backwash Waste Pump 1Stransfer10Backwash Waste Pump 1Stransfer2.7Backwash Waste Pump 2Stransfer2.7Backwash Waste Pump 2Stransfer2.7Backwash Waste Pump 2Stransfer2.7	PM Prog.	Yes	Yes	Yes	Yes		Yes	Yes	Yes	Yes	Yes	Yes
Facility NamePumpApplicationTypeTypeNoosterPolishing Chlorine Booster PumpCboosterFinished Filter Effluent Pump 1CtransferFinished Filter Effluent Pump 2CtransferFinished Filter Effluent Pump 2CtransferFinished Filter Effluent Pump 2VTtransferFinished Filter Backwash Pump 1VTtransferFilter Backwash Pump 1StransferBackwash Recycle Pump 2StransferBackwash Waste Pump 1StransferBackwash Waste Pump 1StransferBackwash Waste Pump 2StransferBackwash Waste Pump 2Stransfer	Var. Speed	Yes	Yes	Yes	Yes		Yes	Yes	Yes	Yes	Yes	Yes
Facility Name Pump Type Type Polishing Chlorine Booster Pump C Finished Filter Effluent Pump 1 C Finished Filter Effluent Pump 2 C Backwash Pump 1 VT Backwash Recycle Pump 1 S Backwash Recycle Pump 2 S Backwash Waste Pump 1 S Backwash Waste Pump 1 S Backwash Waste Pump 1 S	Motor HP	1	10	10	10		30	30	10	10	2.7	2.7
Facility Name P Polishing Chlorine Booster Pump P Finished Filter Effluent Pump 1 P Finished Filter Effluent Pump 2 P Filter Backwash Pump 1 P Backwash Recycle Pump 2 P Backwash Recycle Pump 2 P Backwash Waste Pump 1 Backwash Waste Pump 1	Application	booster	transfer	transfer	transfer		transfer	transfer	transfer	transfer	transfer	transfer
	Pump Type	С	c	c	с С		VT	LΛ	s	S	s	s
	Facility Name	Polishing Chlorine Booster Pump	Finished Filter Effluent Pump 1	Finished Filter Effluent Pump 2	Finished Filter Effluent Pump 3		Filter Backwash Pump 1	Filter Backwash Pump 2	Backwash Recycle Pump 1	Backwash Recycle Pump 2	Backwash Waste Pump 1	Backwash Waste Pump 2
		-		2	e		4	4	S	9	7	∞

or Spiral Rotor C = Centrifugal Pump VT = Vertical Turbine ative Turbine ES = End Suction (vertical) S = Submersible se (horizontal) O = Other	Are spare-parts on hand for repairs: $Y \boxtimes N \square$ Comments:	N \boxtimes If yes, what are the provisions for facility access:	A Comments:	Lighting: $Y \boxtimes N \square$ Signage: $Y \boxtimes N \square$ Ventilation: $Y \boxtimes N \square$	Drainage: Y 🛛 N 🗌 Describe security measures: <u>Facilities kept locked</u>	
SR = Helical or Spiral Rotor RT = Regenerative Turbine SC = Split Case (horizontal)	ents:		□ N/A □ N		Interior Drainage:	
PDP = Positive Displacement Pump S E = Ejector Pump RP = Reciprocating Pump S	Are all pumps operational: $\mathbf{Y} \boxtimes \mathbf{N} \square$ Comments:	Are the pump facilities located in a flood plain: $\; Y \prod$	Are all drains and vents properly screened: Y $\boxtimes~~N ~ \square ~~N/A ~ \square$ Comments:	Are the following adequate for operation at all facilities:	Type of Heating: Elevtric	Committee on Duming and Dumin Booilitions
Type Codes:	Are all pump:	Are the pump	Are all drains	Are the follow		

TRANSMISSION OF SOURCE WATER

(For purposes of this survey, if the Transmission main exceeds 300' in length this sheet must be completed)

If the system treats, does the transmission main deliver all raw water to a treatment plant: Y 🛛 N 🗌

If no, explain:	Number of T	ransmission mains: <u>Four</u>		
Length	Construction Date	Type of Material	# Air Relief	# Blow Off
A. 1.0 Mile	1940	Cast Iron	0	1
B. 3.4 Mile	1981	C 900 PVC	0	2
C. 1.7 Mile	1940	Cast Iron	0	2
D. 1.8 Mile	2010	C 909 PCV, 12-inch	2	1

Does the air relief(s) terminate above ground level: $Y \square N \square N/A \boxtimes$

Transmission Mains A, B and C: There were 6-7 air relief valves originally installed, each located in manholes. As the air relief valves were located in flood plains, each valve was capped and their supply lines valved off in order to prevent possible cross connections.

Transmission Main D: The discharge for both Air Relief Valves are piped to atmosphere and above the flood plain.

Is (are) the air relief(s) screened:	Y	N 🗌	N/A 🗌	
Is (are) the blow off(s) capped:	Y 🖂	N 🗌	N/A	
Is there a valve exercising program:	Y⊠	N 🗌	N/A	Frequency: <u>annually</u>
Are repair materials available on-site:	Y 🛛	N 🗌		
Comments on Transmission Mains:				
Transmission Main A is dedicated to W	ell #11			
Transmission Main B is used for the six	(6) wells	located e	ast of Aubi	<u>urn: Wells #1, #2, #3, #4, #5, #6</u>

Transmission Main C is used for the two (2) wells located north of Auburn: Wells #19, #20

Transmission Main D is dedicated to Well #13

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TREATMENT FACILITIES AND PROCESSES

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Is the treatment plant located within 100-	year floodplain:		\bowtie	Comme	nts:
Are there any potential contamination sou	irces in the vicini	ty of the pla	nt:	Y 🗌	N
If yes, describe:					
Are the grounds and facility well maintain	ned:	Y 🛛 🛛 N [
Is the facility staffed 24/7:		Y 🗌 🛛 N 🕻	\boxtimes		
If not, what are the normal operating shif	ts: <u>7:30 am - 4:00</u>	<u>) pm Monda</u>	ay th	rough Fr	<u>iday</u>
Is the facility secure from trespassers and	vandalism:	Y 🖾 🛛 N [
If yes, describe security measures	: <u>facility kept loc</u>	eked; door a	larm	l	
Is the system currently using or participa	ting in any type o	f optimizati	on pr	ograms:	Y D N 🛛
			(2012	•	
Historical Daily Maximum production ov					erate at any one time at the nominal
Are there any limitations to plant flows:	Y N N L 1	wo of three	Inter	rs can op	erate at any one time at the nominar
capacityof 700 gpm per filter.		Tuna Davi	tabla	aonovoto	N 0
Is there an emergency power source:			able	generato	<u>15</u>
Frequency of testing of emergency power				niated og	ninmont and facilities: V N N
Is there a Preventative Maintenance Prog	ram for the treat	ment plant,	assoc	ciated eq	
TRE.	ATMENT P	ROCES	<u>5 B</u> I	EING	<u>USED</u>
Conventional Filtration: 🛛	Direct Filtration	: 🗆			In-Line Filtration:
Slow-Sand Filtration: 🗌	Single-Stage Sof	tening: 🗌 _			Two-Stage Softening: 🗌
Conventional Filtration / Softening: 🗌 _		Are there S	split a	and Com	plex Treatment Trains: Y 🗌 N 🖂
Membrane Filtration: 🗌	Micro-Filtration	: 🗌			Ultra-Filtration: 🔲
Nano-Filtration: 🗌	Reverse Osmosis	s: 🗌			Greensand Filtration: 🗌
Ion-exchange: 🗌	Purpose:				
Aeration: 🛛	Type: 🛛 <u>Cascac</u>	ling			
Disinfection: 🛛 <u>Chlorine</u>	Pre: 🗌	Ро	st: 🗵	3	Other:
Oxidation: 🛛 <u>Sodium Permangate</u>	Purpose: <u>Manga</u>	inese remov	<u>al</u>		
Sequestering: 🗌	Purpose:				
Fluoridation: 🛛	Other Processes	:			
Individual processes or package plant: Pa	ickage plant				
If Package plant/treatment unit, brand na	ame and model of	f unit: <u>Sieme</u>	ens T	rident T	<u>R-420 STR</u>
Comments on Treatment Facilities and P	rocesses: The Wa	ater Treatm	<u>ent P</u>	lant wen	t into operation during the summer
of 2011. The Water Treatment Plant beg	an Surface Water	r Treatment	Rule	e Compli	ance on September 1, 2011.

CHEMICALS AND CHEMICAL FEED SYSTEMS (This sheet needed for any system required to comply with 179 NAC 22-005 Item 6)

Comments			4 x 150 Lb. cylinders stored	70 gallons stored	60 gallons stored
Spill	Contain-	ment	No	No	No
MSDS Labeling	જ	Signage	Yes	Yes	Yes
MSDS	Avail.		Yes	Yes	Yes
Safety	Equip.		Yes	Yes	Yes
Measured	By		S	S	S
Certi	fied	By	1	1	1
Average	Daily Feed		3.5 #/Day	4 #/Day	7#/Day
Day Tank	capacity in	gal.	n/a	15	15
Chemical Name			Gas Chlorine	Sodium Permanganate	Hydrofluorosilicic Acid

Measurement Codes: S = Scale L = Labeled T = Tank Marked3 = AWWA Standards 2 = UL**Certification Codes:** 1 = NSF

 $\mathbf{O} = \mathbf{O}$ ther

Safety Equip., MSDS Avail., Labeling & Signage, Spill Containment, Storage Secure & Safe = Yes or No

Are MSDS(s) readily accessible to all personnel:	Y		Y 🛛 N 🗌 Comments:
Is the appropriate chemical safety equipment available to all personnel:	Υ⊠	Ŋ	Y 🛛 N 🗌 Comments:
Are there any visible problems with the application points:	Y	N	Y □ N ⊠ Comments:
Describe security measures for chemical storage: Locked in chemical room(s)	<u>n(s)</u>		

CHEMICAL FEED EQUIPMENT SPECIFICATIONS

Model #	+	Feed Range	NSF 61	Met	thod of settin	Method of setting Feed Rate
			(Y or N)	Well or Motor Paced F	Flow Manual Paced	ual Other
V10K		0-35 #/Day	Yes		XX	Chlorine
V10K		0-35 #/Day	Yes		XX	Polishing Chlorine
AA951-393SI	I	1 GPH	X		XX	Sodium
						Permanganate
AA941-45951	1	.58 GPH	Yes		XX	Hydrofluorosilicic
						Acid

and in excellent condition. The water treatment plant has the ability to feed a cationic polymer if needed using chemical feed equipment that is already in place. Comments on Chemicals, Chemical Feed System(s) and Chemical Feed Equipment: <u>All chemical feed equipment and chemical feed areas are newly installed</u> Comments: If not, where are they fed: **Comments:** Ϋ́ □ z Is appropriate cross-connection control in place for chemical feeders: ΥN ΥN Are these chemicals fed at a chemical feed facility: Are backup units available for all feeders:

SEDIMENTATION / CLARIFICATION (If non-similar multiple units, complete one sheet for each one.)

Type: Cross-flow Basin: 🗌 _	Radial-flow Ba	sin: 🗌 U	p-flow Clarifier: 🛛	
Number of Basins: <u>3</u>		Baffling Factor: <u>n</u> /	<u>'a</u>	
Basin(s) Measurements: Length	:: <u>8</u> ' Depth: <u>7.5</u> ' Width: <u>8</u>	Diameter:		
Does flow appear to be evenly d	istributed: Y 🖾 N 🗌]		
Is there evidence of short-circui	ting: Y 🗌 N 🗵	3		
Method of Sludge Removal:	Mechanical:	Туре:	<u>N/A</u>	
	Manual:	Frequency	/:	
Average Settled Turbidity:	NTU	Historical	Settled Turbidity Range: NT	U
Sludge Disposal Location:	_			

Comments on Sedimentation/Clarification: Adsorption clarifier utilizes a high rate clarification process through media composed of HDPE beads.

FLOW CONTROL AND METERING

Source Water Influent Metered: Y 🛛 N 🗌 Finished Water Outlets Metered:

Y 🛛 N 🗌

Meter Type	Size	Make	Model	Location & Use
Mag Meter	8"	Siemens	Sitrans FM Mag 5100W	Source Filter #1 Influent
Mag Meter	8"	Siemens	Sitrans FM Mag 5100W	Source Filter #2 Influent
Mag Meter	8"	Siemens	Sitrans FM Mag 5100W	Source Filter #3 Influent
Mag Meter	8"	ABB	Mag Master	Source Filter Effluent
Mag Meter	8"	ABB	Mag Master	Source Filter Effluent
Mag Meter	8"	ABB	Mag Master	Finished To Distribution
Mag Meter	8"	ABB	Mag Master	Finished To Distribution
Mag Meter	6"	ABB	Mag Master	Finished To Distribution
Mag Meter	6"	ABB	Mag Master	Finished To Distribution

Water Treatment Plant

Comments: _____

GRAVITY FILTERS

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Number of Filters: <u>3</u> Filter ID (name or nu	mber): <u>#1, #2, #3</u>	Installation Date: 20	<u>10</u>
Filter Technology: Rapid Sand: 🖂	Slow Sand:		
Filter Media (check all that apply): Sand: 🛛	Anthracite:	GAC:	
Gravel: 🗌 Garnet: 🖂	DE:	Other:	
Filter Dimensions: Length: 22' Depth: 8' Width: 8' Dia	meter:' Baff	ling Factor: <u>n/a</u>	
Date of last media installation or replacement: <u>new in</u>	<u>2010</u>		
Are there any visible problems with filter media: \mathbf{Y}] N 🛛 Comments:		
Type of under drain system: Siemens Multi-Block System	tem		
Frequency under drain system is inspected: <u>n/a</u>			
Designed filtration rate: <u>4</u> gpm /ft ²	Current filtration rat	te: <u>2</u> gpm /ft ²	
Design media depth: <u>30"</u>	Current media depth	: <u>30''</u>	
Criteria for initiating backwash: Run-time minutes (p	<u>resently 4020 minutes) or</u>	head pressure loss	
Monitoring Equipment: Rate-of-Flow Controller(s): 2	<u>X</u> Are these va	riable or set: <u>Variable</u>	
Filter Effluent Turbidimeters	: <u>X</u> Head Loss g	auges: <u>X</u>	
% media expansion during backwash: 20 - 30% Av	erage filter run time: <u>402</u>	20 minute	
Is there a Surface Wash System for the filter: Y	N 🛛 🛛 Air Scour:	Y 🖾 N 🗌	
Is there filter to waste capability: Y 🖂	N 🗌 Comments:	properly air-gapped	
How are recently washed filters brought back on line:	Filter to waste until filter	turbidity remains less t	<u>han 0.28 NTU's for a</u>
minimumof two minutes. Repeat process if necessry. I	<u> </u>	eration when this level is	s achieved.
Condition of pipe gallery: <u>Excellent</u>			
Has a filter profile been developed for the filter:	Y 🗌 N 🖾 Con	nments:	
Has a filter self-assessment been completed for the filte	er: Y 🗌 N 🖾 Con	nments:	
Where is filter effluent turbidity monitored (list all loc	ations): <u>at discharge head</u>	er of each filter	
Turbidity monitored via: Continuous monitor \boxtimes or b	y grab sample 🗌		
How often are the readings recorded: every 15 minute	<u>s</u>		
Date of last filter effluent turbidimeter calibration: $3/2$	8/2016, all three filters	Calibration freque	ncy: Every 90 days
	N Comments:		
How are required turbidimeter readings recorded:	Chart Recorder 🔲 Strij	o Chart 🛛 Data-logging	5
Frequency of readings: <u>Continuous while filter is open</u>			
Is redundancy provided for readings: $Y \boxtimes N$	Turbidity readings are	cross checked with han	<u>d-held unit a minimum</u>
of every 90 days. (O & M Manual calls for this to be d			
Are filter-aides added prior to filtration: Y 🛛 N	If yes, what chemica	l(s): <u>sodium permangan</u>	ate
	t NSF-60, UL, or AWWA		
Are appropriate cross-connection devices installed, wh	iere necessary: Y 🛛 N		
Is backwash water retained for recycle: $Y \boxtimes N$ [Direct Recycle
Comments on Gravity Filters: DHHS-approved plant			
Effective 1/1/2016: A back-up computer has been inst	alled at the WTP. Each f	<u>ilter is now monitored in</u>	dividually for
turbidity, and alarms on each filter indicate high turb	idity conditions.		

DISINFECTION PROCESSES Page 1 of 2

Pre-Disinfectant Used:	Chlorine Ozone Chlorine Dioxide Other:
In-plant Disinfectant:	Chlorine 🗌 Ozone 🗌 Chlorine Dioxide 🗌 Other:
Distribution (plant efflue	ent) Disinfectant Used: 🖾 Chlorine 🗋 Chloramines 🗌 Chlorine Dioxide
	Other:
Chlorine Type Used:	☐ Gas – 150 lb. Cylinder ☐ Gas – 1T Cylinder ☐ Gas – RR Tank Cars
	🗌 Liquid – Sodium Hypochlorite:% 🔲 Calcium Hypochlorite:%
Primary Purpose:	□ Oxidation □ Disinfection □ Both
Chlorine Dioxide:	On-site generated: Y 🗌 N 🗌 If yes, number of generators:
	Size of chlorine cylinders: Bulk chlorite storage: gal
	Primary Purpose: 🗌 Oxidation 🗌 Disinfection 🗌 Both
	Frequency of generator yields: Average yield %:%
	Method used to detect residuals:
	Is there a PM Program for the generators: Y N
	Date of last preventative maintenance on generators:
Ozone:	Number of Generators: Capacity of Generators:
	% Ozone being generated:%
	Primary Purpose: 🗌 Oxidation 🗌 Disinfection 🗌 Both
	Are all applicable residual monitors operational: Y 🗌 N 🔲
	Are excess ozone destructors operational: Y V N
	Is there a PM Program for the generators: Y N
	Date of last PM on ozone generators:

DISINFECTION APPLICATION POINTS

-14

Disinfectant Type	Application Point
Gas Chlorine	Post filtration at the header pipe to Clearwells #1 and #2
Gas Chlorine	At POE (Used only if "polishing" is required)

DISINFECTION PROCESSES Page 2 of 2

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SW & GWUDI PWS

How are the T10 Times calculated:	Tracer St	tudy:		Theoretical: <u>xx</u>
Date Tracer Study was Conducted	:		Ву:	
Identify the CT Sampling Sequence	es:			
A.) <u>Clearwell #1 and #2</u>				Baffling Factor: 0.5
B.)				Baffling Factor:
C.)				Baffling Factor:
D.)				Baffling Factor:
Where are disinfectant residuals, f	low, pH and tem	peratures bein	g monitored for	CT purposes: <u>POE</u>
What is frequency of CT calculation	ons: Daily at pea	<u>k hourly flow</u>	of 700 gpm cons	tant
Are at least 3 years of daily CT cal	culations availab	le: Y 🗌	n 🛛	
Are the CT calculations being perf	formed correctly:	Y 🖂	N 🗌	
Testing Equipment for CT Calcula	tions in each zon	ie:		
Chlorine Residual: 🔲 Grab or	Continuous	Inst. Model:	ATI Model Q 4	5H Calib. Freq.: Quarterly
pH: 🗌 Grab or	🔀 Continuous	Inst. Model:	<u>ABB TB 82</u>	Calib. Freq.:
Temperature in C: 🗌 Grab or	Continuous	Inst. Model:	<u>ABB TB 82</u>	Calib. Freq.:
Comments:				

All PWS That Disinfect

Monitoring for disinfectant residuals: Continuous 🖂 or grab sampling 🗌 (frequency)
List all locations where disinfectant residuals are monitored: At total coliform sample sites four times per month
Model of Continuous Monitor: ATI - Model Q 45H
Is there an adequate spare parts inventory: Y 🖾 N 🗌 Reagent supply: Y 🖾 N 🗌
Residual Information Recording: 🗌 Chart-recorder 🗌 Strip-charts 🛛 Data-logging
Is there a level of redundancy: Y 🖾 N 🗌 Comments:
What is the frequency of verifying the continuous read testing results by another method: daily comparison against
Hach DR 2800 Bench Top Unit
What is that method: <u>DPT</u>
Are backflow preventers installed where necessary: Y \boxtimes N \square
Comments: on lines to domestic and process water
Comments on Disinfection Process:

		GR	GROUND	AND ELEVATED	EVATI	TANK	STORAGE	FACII	, LTLEN			
Facility Name	Tvpe	Const.			Corrosion	on Date of	Date of	Date	Interior	Date	Exterior	r. T
	k 3 	Mat.	ht.	flow ht.	Control				Paint	Exterior	Paint Type	be
	-				(Y or N)		+	2	Type	rainteu		
26 th St. Reservoir	PB	C	24'	23'	No	8/6/2015	c102/9/8	_	X	11/3	{ ;	
Clearwell #1	PB	C	8	n/a'	No	5/26/2016	5/26/2016	n/a	X	n/a	×	
Clearwell #2	PB	c	8	n/a'	No	5/26/2016	5/26/2016	n/a	X	n/a	X	T
Finished &	B	ပ	n/a'	na/'	No	8/6/2015	8/6/2015	n/a	X	n/a	X	
Backwash Water												
Type: G = Ground Storage		PB = Partially Buried	lly Buried	B = Buried	E	= Elevated HP =	= Hydro-pillar	4	UC = Uncovered Facility	cility SP =	Stand Pipe]
<u> </u>	C = Conc		S = Steel	0 = 0ther		Describe:						
Paint Svsfem Tvne:	E = Epoxv		G = Glass Coating		W = Wax	$\mathbf{U}\mathbf{K} = \mathbf{U}\mathbf{n}$	= Unknown	$\mathbf{O} = \mathbf{O}$ ther		Describe:		
Current condition of tank exterior(s): 26 th St. Reservoir =	t exterior	(s): 26 th St	. Reservoi	č ir = fair								
Any annarent structural problems:	problems	[] X ;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;	⊠ z	Comments:								
Is there a routine inspection and cleaning program:	ion and cl	leaning pro	gram:	Y		Comments: All reservoirs and clearwells are inspected annually by BPW staff.	eservoirs and	l clearwells a	re inspected	annually by]	BPW staff.	
Were any deficiencies noted during the last inspection: Y	ted durins	o the last in	spection:									
If yes, have they been corrected: Y	been cori	rected: Y	N N N		hat was no	If no, what was not corrected: 26th Street Reservoir continues to leak minimally0 above ground	th Street Reso	ervoir continu	<u>ues to leak n</u>	ninimally0 ab	ove ground	
level.												
How is the water supply maintained with storage facilities out of service: <u>VFD operation of pumps</u>	maintaint	ed with stor	rage facili	ties out of ser	rvice: VF	D operation of p	sdun					
Are the facilities well maintained: Y \boxtimes	intained:`	Y 🛛 N	Desi	cribe security	y measure	Describe security measures for storage facility: <u>security fences are kept locked</u>	ility: <u>security</u>	fences are ke	ept locked			
J	GROU	GROUND AND ELEVA	DELEV	VATED S	STORA	TED STORAGE TANK FACILITIES	FACILIT	THES CON	COMPONENTS	STN		
	(If unab	(If unable to inspect the followin	t the follo	<u>wing, obtain</u>	informati	g, obtain information from the most recent storage facility inspection report)	st recent stor:	ige facility in	spection rep	ort)		
Facility Name	Roof	Access	Roof	Level	Tank	Overflow 12-	Overflow	Access	Valves			Alarm
	Leaks	Hatch	Vent	Measure	Drain	24" above	Cover	Ladders (Operable		S	System
		Locked		Operational		ground on splash pad				Operable	Type	
26 th St Reservoirc	v	S	S	S	Ш	S	S	NA	S	NA	SCADA	S
Clearwell #1		S	S	S	S	NA	s	NA	S	S	SCADA	S
Clearwell #2	S	S	S	S	s	NA	S	NA	S		SCADA	S
Finished &	s	NA	NA	S	s	NA	S	NA	Ś	s	SCADA	S
Backwash Water Clearwell at WTP												
CICAL WCII AL W II												
S = Satisfactory		U = Unsatisfactory	ctory	N = Not	t Present, l	N = Not Present, but should be	UI = Unable	UI = Unable to Visually Evaluate	valuate	NA = No	NA = Not Applicable	

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Overall Comments on Ground and Elevated Storage Facilities:

THE FOLLOWING MARKED SANITARY SURVEY COMPONENTS ARE NOT APPLICABLE TO THIS PWS.

THE TOTAL CONTROL BROCDAM	
CROSS-CONNECTION CONTROL PROGRAM	
SOURCE FACILITIES—GROUNDWATER SUPPLY FACILITIES	
WELL INFORMATION	
SURFACE WATER SUPPLIES AND FACILITIES	
INFILTRATION GALLERY FACILITIES	\mathbf{X}
SPRING SOURCE FACILITIES	X
PUMPS AND PUMP FACILITIES	
TRANSMISSION OF SOURCE WATER	
TREATMENT FACILITIES AND PROCESS	
PRESEDIMENTATION BASINS	\mathbf{X}
FLOW CONTROL AND METERING	
AERATION / OXIDATION	
RAPID MIX PROCESS	\boxtimes
CHEMICAL AND CHEMICAL FEED SYSTEMS	
CHEMICAL EQUIPMENT SPECIFICATIONS	
COAGULATION AND FLOCCULATION	\bowtie
SEDIMENTATION / CLARIFICATION	
PRESSURE FILTERS	\boxtimes
GRAVITY FILTERS	
DISINFECTION PROCESSES	
GROUND AND ELEVATED TANK STORAGE FACILITIES	
GROUND AND ELEVATED STORAGE FACILITIES COMPONENTS	
HYDROPNUEMATIC AND PRESSURE TANKS	\boxtimes

Inspector's Signature:	InRout
System Representative:_	Senneth Swanson

Date Inspection Completed: 6-9-16

Appendix C: Contaminant Source Inventory Tables (Fuel Tanks and CSI GIS Table)

	Aboveground Fuel Tanks - Auburn CSI							
FACILITY_ID	PARCEL	CURRENT OWNER	MAILING ADDRESS	CITY, STATE	ZIP	SITUS ADDRESS		
12120	640002536	KISTNER/ELDON W & SONIA S	2212 P ST	AUBURN, NE	68305	2212 \P ST		
12115	640034985	NEBRASKA DEPARTMENT OF ROADS	PO BOX 94759	LINCOLN, NE	68509	1301 \COURTHOUSE AVE		
12119	640037941	CASEY'S RETAIL COMPANY	PO BOX 3001	ANKENY, IA	50021	2208 \J ST		
12112	640034896	CRSMT, INC	1004 14TH ST	AUBURN, NE	68305	1004 \14TH ST		
12117	640044247	NEMAHA COUNTY HOSPITAL	2022 13TH ST	AUBURN, NE	68305	2022 \13TH ST		
12111	640053564	CITY OF AUBURN	1101 J ST	AUBURN NE	68305	24-5-14 \SEC AIRPORT		
12116	640053270	EVAN LUTHERAN GOOD SAMARITAN SOCIETY	1322 U ST	AUBURN, NE	68305	1322 \U ST		
12118	640035558	NEBRASKA PUBLIC POWER DISTRICT	PO BOX 499	COLUMBUS NE	68602	902 \CENTRAL AVE		
12114	640037011	FARMERS UNION COOPERATIVE SUPPLY	PO BOX 64	BEATRICE, NE	68310	922 \J ST		
12113	640037011	FARMERS UNION COOPERATIVE SUPPLY	PO BOX 64	BEATRICE, NE	68310	922 \J ST		

		Underground	d Fule Tanks - Auburn	I CSI		
FACILITY ID	PARCEL	OWNER	ADDRESS	CITY, STATE	ZIP	SITUS
5066	640069363	NEMAHA COUNTY	1824 N ST	AUBURN, NE	68305	601 \J ST
3080	640038867	SCHOOL DISTRICT #29 CALVERT SCHOOL	2103 O ST	AUBURN, NE	68305	2103 \O ST
3563	640002536	KISTNER/ELDON W & SONIA S	2212 P ST	AUBURN, NE	68305	2212 \P ST
725	640034985	NEBRASKA DEPARTMENT OF ROADS	PO BOX 94759	LINCOLN, NE	68509	1301 \COURTHOUSE AVE
3879	640034985	NEBRASKA DEPARTMENT OF ROADS	PO BOX 94759	LINCOLN, NE	68509	1301 \COURTHOUSE AVE
5601	640035078	CRSMT, INC	1004 14TH ST	AUBURN, NE	68305	1402 \J ST
11207	640037941	CASEY'S RETAIL COMPANY	PO BOX 3001	ANKENY, IA	50021	2208 \J ST
1485	640044735	MASON/ERIC D	611 P ST	AUBURN NE	68305	611 \P ST
4353	640035213	FIRST NATIONAL BANK OF JOHNSON	PO BOX 215	JOHNSON, NE	68378	1315 \J ST
3622	640035930	BROWN/JAMES W	2002 O ST	AUBURN, NE	68305	2002 \O ST
1484	640036082	MASON/ERIC DOUGLAS	611 P ST	AUBURN NE	68305	700 \J ST
3079	640087981	AUBURN PUBLIC SCHOOLS	1713 J ST	AUBURN NE	68350	1713 \J ST
666	640035981	CLUGSTON OIL COMPANY	8400 I ST	OMAHA, NE	68127	802 \J ST
3624	640037852	BENNETT/RANDY L	1100 CENTRAL AVE	AUBURN NE	68305	1100 \CENTRAL AVE
4379	640035205	TRIANGLE PACIFIC CORPORATION	PO BOX 3001	LANCASTER PA	17604	72976 \638A AVE
3623	640034896	CRSMT, INC	1004 14TH ST	AUBURN, NE	68305	1004 \14TH ST
1509	640044247	NEMAHA COUNTY HOSPITAL	2022 13TH ST	AUBURN, NE	68305	2022 \13TH ST
6996	640033822	GILBERT/MICHAEL E & MARILYN K	73358 633 AVE	BROCK NE	68320	917 \J ST
6255	640035957	CARSON NATIONAL BANK	PO BOX 290	AUBURN, NE	68305	2301 \DAHLKE AVE
6151	640036031	C & W	725 16TH ST	AUBURN, NE	68305	922 \ALDEN DR
5373	640053564	CITY OF AUBURN	1101 J ST	AUBURN NE	68305	24-5-14 \SEC AIRPORT
3895	640036252	TINCHER INVESTMENTS INC	814 CENTRAL AVE	AUBURN, NE	68305	814 \CENTRAL AVE
6186	640036252	TINCHER INVESTMENTS INC	814 CENTRAL AVE	AUBURN, NE	68305	814 \CENTRAL AVE
7426	640001459	MYERS/ANDREW W & EDNA N	1410 CENTRAL AVE	AUBURN, NE	68305	2517 \Q ST
3003	640045006	CITY OF AUBURN	1101 J ST	AUBURN NE	68305	E ST
2636	640045197	CITY OF AUBURN	1101 J ST	AUBURN NE	68305	
8137	640033660	HOUSING AUTHORITY-CITY OF AUBURN	1017 H ST	AUBURN NE	68305	1017 \H ST
3081	640039286	NEBRASKA PUBLIC POWER DISTRICT	PO BOX 499	COLUMBUS NE	68602	1110 \M ST
663	640037917	RITE WAY OIL & GAS COMPANY INC	8400 I STREET	OMAHA, NE	68127	802 \J ST
31	640037011	FARMERS UNION COOPERATIVE SUPPLY	PO BOX 64	BEATRICE, NE	68310	922 \J ST
3121	640037011	FARMERS UNION COOPERATIVE SUPPLY	PO BOX 64	BEATRICE, NE	68310	922 \J ST
6545	640036627	AUTOMOTIVE DIESEL INC	1100 J ST	AUBURN NE	68305	1100 \J ST
12110	640036627	AUTOMOTIVE DIESEL INC	1100 J ST	AUBURN NE	68305	1100 \J ST

		No No	No						GFumigant	SFumigant No	SiteDesc 40.cow	MatDesc	FacilityName	Owner James Ramsey Et al	Address 72696 - 75 HWY
23 Livestock Operation 25 Other	Yes	No	No							NO NO	4U COW COOD	deisel gas	Farmers Union Cooperative Supply	James Namsty Lt di	PO Box 64, beatrice 68310
26 Other	Yes	No	No				No			No	coop	propane amonia	Farmers Union Cooperative Supply		PO Box 64 Beatrice 68310
27 Vet Clinic 28 Golf Course	No Yes	No	No				Yes			No No			Auburn County slub	Mike Speece	72774 - 75 HWY PO BOX 501
							Yes						Auburn County club		PO BOX 501
29 Farmstead	Yes	No	No			No	Yes	Yes		No					
30 Livestock Operation		No	No			No	No			No	200 hog			Charles and Barbara Knipe	PO BOX 172
31 Acerage	No	No	No							No			Schlange Trustee	Gary and Mary Schlange	64086 - 727 RD
32 Livestock Operation		No	No				No			No		300 hog	Schlange Trustee	Gary and Mark Schlange	64086 - 727 Rd
33 Pivot	No	No	No				No			No	2 wells 500gal tank			Dwaine Rogge	1835 Monterey Dr, Lincoln 68506
34 Acerage	No	No	No							No				Barbara Bolen	1012 - 23rd St.
35 Acerage	No	No	No			No	Yes			No				Jason Cihal	64134 - 136 HWY
36 Acerage	No	No	No		٩٥	No	Yes			No			Theodore Smith	Berdie Banks	64140 - 136 HWY
37 Other	No	No	No			No				No	Grain Bins			Richard Alden	
38 Airport	Yes	No	No			No	Yes			No			Farington Field	City of Auburn	1101 J St.
39 Acerage	No	No	Yes	No N	No	No	Yes	Yes	No	No				Timothy and Shelly Nichols	64187 - 136 HWY
40 Farmstead	Yes	No	No	Yes N			Yes	Yes	No	No				Dwaine and Wanda Rogge	1835 Monterey Dr; Lincoln 68506
41 Acerage	No	No	No			No	Yes	Yes		No				Jerry and Laurena Sayer	72847 - 642 Ave
42 Acerage	No	No	No	No N	No	No		Yes		No			Wonda Beth Conn	Lonnie Sierks	72838 - 642 Ave
44 Farmstead	Yes	No	No	Yes N	No	Yes	Yes	Yes	No	No				Lynn Rogge	72799 643 Ave.
45 Farmstead	No	No	No	Yes N	No	No	Yes	Yes	No	No				Lynn and Jana Rogge	64274 728 RD
46 Farmstead	No	No	No	Yes N	٨o	No	Yes	Yes	No	No				Jaunalee Alden	2320 Whitlow Ave
47 Farmstead	No	No	No	Yes Y	/es	No	Yes	Yes	No	No				Herb Lash	64270 136 Hwy
48 Farmstead	No	No	No	Yes N	٧o	No	Yes	Yes	No	No				Elaine McGrath	23664 W Main St.; Plainfield, IL 60544
49 Farmstead	No	No	No	Yes N	٨o	No	Yes	No	No	No			David Thomas Revoc Liv Trust	Susan Thomas Revoc Liv Trust	72922 - 642 Ave
50 Farmstead	No	No	No			No		Yes		No			Gribbs Farms INC	Gibbs Farms INC,	PO BOX 218, Nebraska City 68410
51 Farmstead	No	No	No			No		Yes		No				Sally Lavigne	73056 - 75 HWY
52 Other	No	No	Yes			No	No			No	construction storage			Jim Winkelman	64736 - 730A RD
53 Farmstead	No	No	No			No	Yes			No				Ralph and Patricia Lampe	63930 - 731 RD
54 Acerage	No	No	No			No	Yes			No				John and Tina Kahanca	73103 - 640 Ave
55 Acerage	No	No	No			No	Yes	Yes		No				Joe and Rita Ingersoll	63992 - 731 RD
56 Acerage	No	No	No			No				No				Joe and Rite Ingersoll	63992 - 731 RD
57 Acerage	No	No	No			No				No				Donald and Marcia Goering	73119 - 640 Ave
58 Acerage	No	No	No							No			~~~~~~	Kenneth Schlange	64003 - 731 RD
59 Acerage	No	No	No				Yes			No			Sterling and Elaine Bray Trustee	Sterling and Elaine Bray	73067 - 640 Ave
60 Livestock Operation		No	No				Yes			No	500 hog		Storing and Clairie Didy Hustoe	Wayne and Barbara Schlange	73046 - 640 Ave
61 Acerage	No	No	No			No	Yes			No	000 109			Wayne and Barbara Schlange	73046 - 640 Ave
62 Grain Elevator	No	No	No							Yes				Richard and Jane Andrew	22239 C Ave Box 173; Rockport, MO 64482
63 Farmstead	No	No	No			No				No				Terry and Melisa Fulton	64088 - 731 RD
64 Other	Yes	No	Yes			Yes	No			No	Magnolia Metal Works	Propane Tank, Trucks, Warehouse	Magnolia Metal Corporation	reny and weilsa Futton	PO BOX 34370; Omaha, NE 68134
							Yes				abandoned house, city water	Flopane fank, flucks, warehouse			
65 Acerage	No	No	No				No			No No			Eggers Brothers INC.		72302 - 105 HWY
68 Parking Lot	No	No	Yes				kanan				trailer storage		Triangle Pacific Corporation		PO BOX 3001; Lancaster, PA 17604
69 Other	No	No	No			No	No			No	Wood Shop/Manufacturing		Armstrong Cabinets	Triangle Pacific Corporation	PO BOX 3001; Lancaster, OA 17604
70 Acerage	No	No	No			No				No				Muriel and Mary Estes	63825 - 730 RD
71 Acerage	No	No	No			No				No				Robert and Helen Hummel	63821 - 730 RD
72 Acerage	No	No	No			No	Yes			No			Casey 1st Trust	Audrey Casey	63811 - 730 RD
73 Acerage	No	No	No			No	Yes			No				David and Dianna Hunter	63809 - 730 RD
74 Machine Shop	No	No	Yes				No			No				David and Dianna Hunter	63809 - 730 RD
75 Acerage	No	No	No							No				Gina Long	63800 - 730 RD
76 Acerage	No	No	No			No				No				John and Nancy Hawley	73016 - 638 Ave
77 Acerage	No	No	No			No	Yes			No				Michael Clarke	63796 - 730 RD
78 Acerage	No	No	No			No	Yes			No				Michael Clarke	63796 - 730 RD
79 Acerage	No	No	No	No N	٨o	No	Yes	Yes	No	No				Michael Clarke	63796 - 730 RD
80 Acerage	No	No	No			No	No			No				Steven Rogge	10113 Charisslen Lane; highlands Ranch, CO
81 Acerage	No	No	No				No			No	Abandoned			Terry and Deborah Ratliff	106 E thomas Ave; shenandoah, IA 51601
82 Acerage	Yes	No	No	No N	No	No	Yes	Yes	No	No	propane		Michael chambers	Janice Klingman	63729 - 730 RD
83 Acerage	Yes	No	Yes			No	Yes			No		fuel and deisel 250 gals	Duane Huddart	Judy Clarke	72959 - 638 Ave
84 Acerage	No	No	Yes	No N	No	No	Yes	Yes	No	No				Terry and Deborah Ratliff	106 E Thomas Ave; Shanandoah, IA 51601
85 Other	No	No	No	No N	No	No	No	No	No	No	cemetery		Sheridan Cemetery		
87 Acerage	No	No	No	No N	٨o	No	Yes	No	No	No				Darin and Paula Randall	
88 Acerage	No	No	No	No N	٨o	No	Yes	No	No	No				Mark and Elizabeth Andrew	1305 Spring Oak Estates
89 Acerage	No	No	No	No N	١o	No	Yes	No	No	No				Terry and Marnie Argo	1307 Spring Oak Estates
90 Acerage	No	No	No	No N	No	No	Yes	No	No	No				Brent and Amanda Meyer	1309 Spring Oak Estates
	No	No	No			No	No			No				Brent and Amanda Meyer	1309 Spring Oak Estates
91 Well	No	No	Yes			No	No		No	No				John Henderson	63703 - 733A RD
91 Well 92 Car/Junk Lot	No	No	Yes		٨o	No	No	No	No	No	old junk yard with 100+ cars		Daniel and Karen Overgaard		PO BOX 467
		No	No				No			No			Nemaha County Hospital	Nemaha County	2022 13th At.
92 Car/Junk Lot						No	No			No		deisel 50 gals	Good Sumaritan Assisted Living	Evangelical Lutheran	418 Q St.
92 Car/Junk Lot 95 Car/Junk Lot	No Yes	No	No			No	No			No	rotary lake		Nemaha County Aricultural Soceity	Nemaha Agricultural Society	Fairgrounds, 68305
92 Car/Junk Lot 95 Car/Junk Lot 96 Medical Clinic 97 Medical Clinic	No Yes	No		No N				INO :			concrete plant	water storage tank			4
92 Car/Junk Lot 95 Car/Junk Lot 96 Medical Clinic	No		No				No		No	No			Union Pacific Railroad		1
92 Car/Junk Lot 95 Car/Junk Lot 96 Medical Clinic 97 Medical Clinic 98 Other 99 Other	No Yes No	No No	No No	No N	٩٥			No					Union Pacific Railroad Shell	Clugston Oil Company	802 J St.
92 Car/Junk Lot 95 Car/Junk Lot 96 Medical Clinic 97 Medical Clinic 98 Other 99 Other 100 Gas Station	No Yes No Yes No	No No No Yes	No No Yes	No M No M	10 10	Yes No	No No	No No	No	No			Shell	Clugston Oil Company	
92 Car/Junk Lot 95 Car/Junk Lot 96 Medical Clinic 97 Medical Clinic 98 Other 99 Other	No Yes No Yes No No	No No Yes Yes	No No Yes Yes	No M No M No M	40 40 40	Yes No No	No No No	No No No	No I No I				Shell Farmers Cooperaitve		PO Box 64 Beatrice, NE 68310
92 Car/Junk Lot 95 Car/Junk Lot 96 Medical Clinic 97 Medical Clinic 98 Other 99 Other 100 Gas Station 101 Gas Station 102 Other	No Yes No Yes No No No	No No Yes Yes No	No No Yes Yes No	No No No No No No	40 40 40 40	Yes No No No	No No No No	No No No No	No I No I No	No No No	fairgrounds		Shell Farmers Cooperaitve Nemaha County Agricultural Society	Clugston Oil Company Nemaha County Agricultural Society	
92 Car/Junk Lot 95 Car/Junk Lot 96 Medical Clinic 97 Medical Clinic 98 Other 99 Other 100 Gas Station 101 Gas Station 102 Other 103 Grain Elevator	No Yes No Yes No No No No	No No Yes Yes No No	No No Yes Yes No No	No N	40 40 40 40 40	Yes No No No No	No No No No	No No No No	No No No Yes	No No No Yes			Shell Farmers Cooperaitve Nemaha County Agricultural Society Union Pacific Railroad		PO Box 64 Beatrice, NE 68310
92 Car/Junk Lot 95 Car/Junk Lot 96 Medical Clinic 97 Medical Clinic 98 Other 99 Other 100 Gas Station 101 Gas Station 102 Other 103 Grain Elevator 104 Grain Elevator	No Yes No Yes No No No No No	No No Yes Yes No No	No No Yes Yes No No No	No N	40 40 40 40 40	Yes No No No No No	No No No No No	No No No No No	No No No Yes Yes	No No No Yes Yes	fairgrounds		Shell Farmers Cooperaitve Nemaha County Agricultural Society Union Pacific Railroad 5500 "L" Street Properties Co, LLC		PO Box 64 Beatrice, NE 68310
92 Car/Junk Lot 95 Car/Junk Lot 96 Medical Clinic 97 Medical Clinic 98 Other 99 Other 100 Gas Station 101 Gas Station 102 Other 103 Grain Elevator 104 Grain Elevator 104 Grain Elevator	No Yes No Yes No No No No Yes	No No No Yes Yes No No No No	No No Yes Yes No No No No	No N	40 40 40 40 40 40 40 (es	Yes No No No No Yes	No No No No No No No	No No No No No No No	No No Ves Yes No Yos Yos Yos Yos Yos Yos Yos Yos Yos Yo	No No No Yes Yes Yes			Shell Farmers Cooperaitve Nemaha County Agricultural Society Union Pacific Railroad 5500 "L" Street Properties Co, LLC Union Pacific Railroad		PO Box 64 Beatrice, NE 68310 Fairgrounds
92 Car/Junk Lot 95 Car/Junk Lot 96 Medical Clinic 97 Medical Clinic 98 Other 99 Other 100 Gas Station 101 Gas Station 101 Gas Station 103 Grain Elevator 104 Grain Elevator 105 Other 106 Car/Junk Lot	No Yes No Yes No No No Yes No	No No Yes Yes No No No No No	No No Yes Yes No No No Yes	NoNNoNNoNNoNNoNNoYYesN	No No No No No No (es No	Yes No No No No Yes No	No No No No No No No No	No No No No No No No	No No Yes Yes No No You You Yes You	No No No Yes Yes Yes No	fairgrounds chemical plant		Shell Farmers Cooperative Nemaha County Agricultural Society Union Pacific Railroad 5500 "L" Street Properties Co, LLC Union Pacific Railroad concrete Industries INC.	Nemaha County Agricultural Society	PO Box 64 Beatrice, NE 68310 Fairgrounds 1815 Y St. Lincoln, NE 68501
92 CarJunk Lot 95 CarJunk Lot 97 Medical Clinic 97 Medical Clinic 98 Other 99 Other 100 Cas Station 101 Cas Station 102 Other 103 Grain Elevator 104 Grain Elevator 105 Other 106 CarJunk Lot 107 Other	No Yes No Yes No No No Yes No No	No No Yes Yes No No No No No No	No No Yes No No No No Yes No	No N No N No N No N No N No Yes No N	40 40 40 40 40 40 7es 40 40	Yes No No No No Yes No No	No No No No No No No No	No No No No No No No No No	No No No Yes Yes No	No No Yes Yes Yes No No	fairgrounds chemical plant Fuel Storage		Shell Farmers Cooperaitve Nemaha County Agricultural Society Union Pacific Railroad 5500 "1" Street Properties Co, LLC Union Pacific Railroad concrete Industries INC. City Street Department	Nemaha County Agricultural Society	PO Box 64 Beatrice, NE 68310 Fairgrounds 1815 Y St. Lincoln, NE 68501 1101 J St.
22 CarJunk Lot 95 CarJunk Lot 96 Medical Clinic 97 Medical Clinic 98 Other 99 Other 99 Other 100 Gas Station 101 Gas Station 102 Other 103 Grain Elevator 105 Other 106 CarJunk Lot 107 Other	No Yes No Yes No No No Yes No No No	No No Yes Yes No No No No No Yes	No No Yes No No No No Yes No No	No N	No No No No No Yo Yo No No	Yes No No No No Yes No No	No No No No No No No No No	No No No No No No No No No No	No No Yes Yes No	No No Yes Yes Yes No No No	fairgrounds chemical plant	3 - 20,000gal tanks	Shell Farmers Cooperative Nemaha County Agricultural Society Union Pacific Ratiroad 5500 °L* Street Properties Co, LLC Union Pacific Ratiroad ooncrete Industries INC. City Street Department Board of Public Works	Nemaha County Agricultural Society	PO Box 64 Beatrice, NE 68310 Fairgrounds 1815 Y St. Lincoln, NE 68501 1101 J St. 1101 J St.
92 CarJunk Lot 95 CarJunk Lot 96 Medical Clinic 97 Medical Clinic 98 Other 99 Other 100 Gas Station 101 Gas Station 102 Other 103 Grain Elevator 105 Other 106 CarJunk Lot 107 Other 108 Other 109 Auto Service	No Yes No No No No No Yes No No No No No	No No Yes Yes No No No No No No No No No No No	No No Yes No No No No Yes No Yes	No N No N No N No N No N Yes N	No No No No No No No No No No No	Yes No No No No Yes No No No No	No No No No No No No No No No	No No No No No No No No No No No	No I No Yes Yes No	No No Yes Yes Yes No No No No	fairgrounds chemical plant Fuel Storage city owned		Shell Farmers Cooperaitve Nemaha County Agricultural Society Union Pacific Railroad 5500 "1" Street Properties Co, LLC Union Pacific Railroad concrete Industries INC. City Street Department Board of Public Works Striggow Body Shop	Nemaha County Agricultural Society City of Auburn City of Auburn Randy and Sharon Striggow - Trustees	PO Box 64 Beatrice, NE 68310 Fairgrounds 1815 Y St. Lincoln, NE 68501 1101 J St. 1101 J St. 2000 N St.
22 Car/Junk Lot 95 Car/Junk Lot 96 Medical Clinic 97 Medical Clinic 98 Other 99 Other 100 Cas Station 101 Cas Station 102 Other 103 Grain Elevator 104 Grain Elevator 105 Other 105 Other 106 Car/Junk Lot 107 Other 108 Other 109 Auto Service 110 Other	No Yes No No No No Yes No No No No No Yes	No No Yes Yes No No No No No No No No No No No	No No Yes Yes No No No Yes No No Yes No	No N No N No N No N No N No Y Yes N No N No N Yes N No N Yes N Yes N	No No No No No (es No No No No No	Yes No No No No Yes No No No No No	No No No No No No No No No No No	No No No No No No No No No No	No No Yes Yes No	No No Yes Yes Yes No No No No	fairgrounds chemical plant Fuel Storage city owned factory		Shell Farmers Cooperative Nemaha County Agricultural Society Union Pacific Ratinoad 5000 "L" Street Properties Co, LLC Union Pacific Ratilroad concrete Industries INC. City Street Department Board of Public Works Striggow Body Shop J Street LLC	Nemaha County Agricultural Society City of Auburn City of Auburn Randy and Sharon Striggow - Trustees Stewart M Witkov, Ariens Co	PO Box 64 Beatrice, NE 68310 Fairgrounds 1815 Y St. Lincoln, NE 68501 1101 J St. 1101 J St. 2000 N St. 655 W Ryan Rd; Brillion, WI 54110
22 CarJunk Lot 95 CarJunk Lot 96 Medical Clinic 97 Medical Clinic 98 Other 99 Other 100 Gas Station 101 Gas Station 102 Other 103 Grain Elevator 105 Other 106 CarJunk Lot 107 Other 108 Other 108 Other 109 Auto Service 110 Other 110 Other	No Yes No No No No No Yes No No No No Yes Yes	No No Yes Yes No No No No No No Yes No No No No No	No No Yes No No No Yes No Yes No Yes	No N Yes N Yes N Yes N	No No No No No No No No No No	Yes No No No Yes No No No No Yes	No No No No No No No No No No No No	No No No No No No No No No No No	No N	No No Yes Yes Yes No No No No No	fairgrounds chemical plant Fuel Storage city owned	3 - 20,000gal tanks	Shell Farmers Cooperaitve Nemaha County Agricultural Society Union Pacific Railroad 5500 ": Street Properties Co. LLC Union Pacific Railroad concrete Industries INC. City Street Department Board of Public Works Striggow Body Shop J Street LLC Neberaska Department of Roads	Nemaha County Agricultural Society City of Auburn City of Auburn Randy and Sharon Striggow - Trustees Stewart M Witkov, Ariens Co	PO Box 64 Beatrice, NE 68310 Fairgrounds 1815 Y St. Lincoln, NE 68501 1101 J St. 1101 J St. 2000 N St
22 Car/Junk Lot 95 Car/Junk Lot 96 Medical Clinic 97 Medical Clinic 98 Other 99 Other 100 Gas Station 101 Gas Station 102 Other 103 Grain Elevator 104 Grain Elevator 105 Other 106 Car/Junk Lot 107 Other 108 Other 109 Auto Service 110 Other 110 Other 112 Other	No Yes No No No No No Yes No No No No Yes Yes Yes	No No Yes Yes No	No No Yes No No No Yes No Yes No Yes No Yes No	No N No N No N No N Yes N No N Yes N Yes N Yes N No N Yes N No N	Ко Ко Ко Ко Ко Ко Ко Ко Ко Ко	Yes No No No Yes No No No No No No No No	No No No No No No No No No No Yes	No No No No No No No No No No No No	No N	No No Yes Yes No No No No No No	fairgrounds chemical plant Fuel Storage city owned factory		Shell Farmers Cooperailve Nemaha County Agricultural Society Union Pacific Raliroad SoB0 1* Street Properties Co, LLC Union Pacific Raliroad concrete Industries INC. City Street Department Board of Public Works Striggow Body Shop J Street LLC Nebraska Department of Roads Aubum County Club	Nemaha County Agricultural Society City of Auburn City of Auburn Randy and Sharon Striggow - Trustees Stewart M Vitkov, Ariens Co State of Nebraska	PO Box 64 Beatrice, NE 68310 Fairgrounds 1815 Y St. Lincoln, NE 68501 1101 J St. 1101 J St. 2000 N St 655 W Ryan Rd; Brillion, WI 54110 2318 S St.
22 Car/Junk Lot 95 Car/Junk Lot 96 Medical Clinic 97 Medical Clinic 98 Other 99 Other 100 Gas Station 101 Gas Station 102 Other 103 Grain Elevator 105 Other 106 Car/Junk Lot 107 Other 106 Car/Junk Lot 107 Other 108 Other 109 Auto Service 110 Other 110 Other 111 Other 112 Other 113 Parking Lot	No Yes No No No No No No No No No No Yes Yes No	No No No Yes No	No No Yes No No No Yes No Yes No Yes No Yes	No N No N No N No N No N Yes N Yes N Yes N Yes N No N Yes N No N No N No N No N No N No N	40 40 40 40 40 40 40 40 40 40 40 40 40 4	Yes No No No No Yes No No No No Yes No	No No No No No No No No No No Yes No	No No No No No No No No No No No No No	No I	No No Yes Yes No No No No No No No	fairgrounds chemical plant Fuel Storage city owned factory	3 - 20,000gal tanks	Shell Farmers Cooperative Nemaha County Agricultural Society Union Pacific Railroad 5500 "1" Street Properties Co, LLC Union Pacific Railroad concrete Industries INC. City Street Department Board of Public Works Striggow Body Shop J Street LLC Neberaska Department of Roads Auburn County Club Hinky Dinky Auburn	Nemaha County Agricultural Society City of Auburn City of Auburn Randy and Sharon Striggow - Trustees Stewart M Witkov, Ariens Co State of Nebraska Darland Properties	PO Box 64 Beatrice, NE 68310 Fairgrounds 1815 Y St. Lincoln, NE 68501 1101 J St. 1001 J St. 2000 N St 655 W Ryan Rd; Brillion, WI 54110 2318 S St. 4115 S 133rd St. Omaha, NE 68137
22 Car/Junk Lot 95 Car/Junk Lot 96 Medical Clinic 97 Medical Clinic 98 Other 100 Cas Station 101 Cas Station 102 Other 103 Grain Elevator 103 Grain Elevator 105 Other 106 Car/Junk Lot 107 Other 110 Other 111 Other 113 Parking Lot 113 Parking Lot 114 Acerage	No Yes No Yes No No No No No No No Yes Yes Yes No No	No No No Yes No	No No Yes No No No Yes No No Yes No Yes No Yes No	No N Yes N Yes N No N No N No N No N No N No N	чо чо чо чо чо чо е́ез чо чо чо чо чо чо чо чо чо чо чо	Yes No No No No Yes No No No Yes No No No	No No No No No No No No No No No Yes Yes	No No No No No No No No No No No No No N	No N	No No Yes Yes Yes No No No No No No No No No	fairgrounds chemical plant Fuel Storage city owned factory	3 - 20,000gal tanks	Shell Farmers Cooperailve Nemaha County Agricultural Society Union Pacific Raliroad SoB0 1* Street Properties Co, LLC Union Pacific Raliroad concrete Industries INC. City Street Department Board of Public Works Striggow Body Shop J Street LLC Nebraska Department of Roads Aubum County Club	Nemaha County Agricultural Society City of Auburn City of Auburn Randy and Sharon Striggow - Trustees Stewart M Wikkov, Ariens Co State of Nebraska Darland Properties Teresa Balley-Giles	PO Box 64 Beatrice, NE 68310 Fairgrounds 1815 Y St. Lincoln, NE 68501 1101 J St. 1101 J St. 2000 N St 655 W Ryan Rd; Brillion, WI 54110 2318 S St. 4115 S 133rd St. Omaha, NE 68137 82 Clark Cove RD; Leceister, NC 28748
22 Car/Junk Lot 95 Car/Junk Lot 96 Medical Clinic 97 Medical Clinic 98 Other 99 Other 100 Gas Station 102 Other 103 Grain Elevator 105 Other 106 Car/Junk Lot 107 Other 108 Other 109 Auto Service 110 Other 108 Other 109 Auto Service 110 Other 113 Parking Lot 114 Acerage	No Yes No Yes No No No No No No No No Yes Yes Yes Yes No No No	No No No Yes Yes No	No No Yes Yes No No No No Yes No Yes No Yes No Yes No No	No No No No No No No No No No No No Yes No Yes No No No	40 40 40 40 40 40 40 40 40 40 40 40 40 4	Yes No No No No Yes No No No Yes No Yes No No No No No No No No	No No No No No No No No No Yes No Yes	No No No No No No No No No No No No No Yes	No I No I Yes I No I	No No Yes Yes Yes No No No No No No No No No	fairgrounds chemical plant Fuel Storage city owned factory STATE ROAD	3 - 20,000gal tanks	Shell Farmers Cooperative Nemaha County Agricultural Society Union Pacific Railroad 5500 "1" Street Properties Co, LLC Union Pacific Railroad concrete Industries INC. City Street Department Board of Public Works Striggow Body Shop J Street LLC Neberaska Department of Roads Auburn County Club Hinky Dinky Auburn	Nemaha County Agricultural Society City of Auburn City of Auburn Randy and Sharon Striggow - Trustees Stewart M Wilkov, Ariens Co State of Nebraska Darland Properties Teress Balley-Giles Robert Kinghorn	PO Box 64 Beatrice, NE 68310 Fairgrounds 1815 Y SL Lincoln, NE 68501 1101 J SL 1001 J SL 2000 N SL 655 W Ryan Rd; Brillion, WI 54110 2316 S SL 4115 S 133rd SL Omaha, NE 68137 82 Clark Cove RD; Leceister, NC 28748 63309 - 136 HWY
22 Car/Junk Lot 95 Car/Junk Lot 96 Medical Clinic 97 Medical Clinic 98 Other 99 Other 100 Gas Station 102 Other 103 Grain Elevator 105 Other 106 Car/Junk Lot 107 Other 108 Other 109 Auto Service 110 Other 108 Other 109 Auto Service 110 Other 113 Parking Lot 114 Acerage	No Yes No Yes No No No No No No No Yes Yes Yes No No	No No No Yes No	No No Yes No No No Yes No No Yes No Yes No Yes No	No No No No No No No No No No No No Yes No Yes No No No	40 40 40 40 40 40 40 40 40 40 40 40 40 4	Yes No No No No No No No No Yes No No No No No No No No No No	No No No No No No No No No No Yes Yes Yes Yes	No No No No No No No No No No No No No N	No No Yes No	No No Yes Yes Yes No No No No No No No No No	fairgrounds chemical plant Fuel Storage city owned factory	3 - 20,000gal tanks	Shell Farmers Cooperative Nemaha County Agricultural Society Union Pacific Railroad 5500 "1" Street Properties Co, LLC Union Pacific Railroad concrete Industries INC. City Street Department Board of Public Works Striggow Body Shop J Street LLC Neberaska Department of Roads Auburn County Club Hinky Dinky Auburn	Nemaha County Agricultural Society City of Auburn City of Auburn Randy and Sharon Striggow - Trustees Stewart M Wilkov, Ariens Co State of Nebraska Darland Properties Teresa Balley-Giles Robert Kinghorn Connie Dorsch	PO Box 64 Beatrice, NE 68310 Fairgrounds 1815 Y St. Lincoln, NE 68501 1101 J St. 1101 J St. 2000 N St 655 W Ryan Rd; Brillion, WI 54110 2318 S St. 4115 S 133rd St. Omaha, NE 68137 82 Clark Cove RD; Leceister, NC 28748 63809 - 136 HWY 72886 - 638 Ave
22 Carl/Junk Lot 95 Carl/Junk Lot 96 Medical Clinic 97 Medical Clinic 98 Other 98 Other 99 Other 100 Gas Station 101 Gas Station 102 Other 103 Grain Elevator 105 Other 106 Carl/Junk Lot 107 Other 108 Other 109 Auto Service 110 Other 112 Other 113 Parking Lot 114 Sacerage 115 Otherage 116 Other 117 Acerage 116 Other	No Yes No Yes No No No No No No No No Yes Yes Yes Yes No No No	No	No No Yes Yes No No No No Yes No Yes No Yes No Yes No No	No N Yes N No N Yes N Yes N No N	чо чо чо чо чо чо чо чо чо чо чо чо чо ч	Yes No No No No No No No No Yes No No No No No No No No No	No No No No No No No No No No No No Yes Yes Yes Yes	No No No No No No No No No No No No No N	No No Yes Yes No	No No Yes Yes Yes No No No No No No No No No	fairgrounds chemical plant Fuel Storage city owned factory STATE ROAD	3 - 20,000gal tanks	Shell Farmers Cooperative Nemaha County Agricultural Society Union Pacific Railroad 5500 "1" Street Properties Co, LLC Union Pacific Railroad concrete Industries INC. City Street Department Board of Public Works Striggow Body Shop J Street LLC Neberaska Department of Roads Auburn County Club Hinky Dinky Auburn	Nemaha County Agricultural Society City of Auburn City of Auburn Randy and Sharon Striggow - Trustees Stewart M Wilkov, Ariens Co State of Nebraska Darland Properties Teresa Balley-Giles Robert Kinghorn Connie Dorsch	PO Box 64 Beatrice, NE 68310 Fairgrounds 1815 Y St. Lincoln, NE 68501 1101 J St. 1101 J St. 2000 N St 655 W Ryan Rd; Brillon, WI 54110 2318 S St. 4115 S 133rd St. Omaha, NE 68137 82 Clark Cove RD; Leceister, NC 28748 63309 - 136 HWY
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International Volume No.	Myron Gerdes 63649 - 136 HWY Andrew and nicole Perry 72915 - 637 Ave Markamp INC Kenneth and Genene Broers 72928 - 637 Ave Markamp INC Robert and Susan Hogrefe 63729 - 136 HWY Robert and Susan Hogrefe 63729 - 136 HWY Sheridan Cemetery Ferry Georges 728 Abo Mark Harms 7308 - 637 Ave 7291 - 637 Ave Sheridan Cemetery Ferry Georges 72993 - 638 Ave Mark Harms 73083 - 637 Ave 749 Sheridan Cemetery Mark Harms 73083 - 637 Ave Mark Lamy and Connie Dorsch 7285 - 638 Ave St. Joseph Catholic Church Greg Pawloski PO BOX 406 St. Joseph Catholic Church Greg Palvoski PO BOX 406 Suki and Jay Fischer 72756 - 638 Ave 7218 N St. Suki and Jay Fischer 72756 - 638 Ave 7218 N St. Suki and Jay Fischer 72756 - 638 Ave 7218 N St. Suki and Jay Fischer 72756 - 638 Ave 7218 N St. Suki and Jay Fischer 72756 - 638 Ave 7218 N St. Suki and Jay Fischer 72756 - 638 Ave 7218 N St. Suki and Jay Fischer 7276 - 638 Ave 7218 N St. Suki and Jay Fischer 72756 - 638 Ave 7218 N St.
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Instructure No. No. <th< td=""><td>Markamp INC 725 Arbor DR, Nebraska City 68410 Robert and Susan Hogrefe 63729 - 136 HWY Robert and Susan Hogrefe 63729 - 136 HWY Sheridan Cemetery 7 Terry Georges 72893 - 638 Ave Larry and Connie Dorsch 72852 - 638 Ave Larry and Connie Dorsch 72852 - 638 Ave St. Joseph Catholic Church Greg Pawloski PO BOX 406 St. Joseph Catholic Church Greg Pawloski PO BOX 406 St. Joseph Catholic Church Greg Pawloski PO BOX 406 St. Joseph Catholic Church Greg Pawloski PO BOX 406 St. Joseph Catholic Church Greg Pawloski PO BOX 406 St. Joseph Catholic Church Greg Pawloski PO BOX 406 Suki and Jay Fischer 72756 - 638 Ave 72749 - 638 Ave Suki and Jay Fischer 72756 - 638 Ave 9 St. Joseph Catholic Church Cemetary Church Cemetery Association 2012 O St. Suki and Jay Fischer Greg Pawloski PO BOX 406</td></th<>	Markamp INC 725 Arbor DR, Nebraska City 68410 Robert and Susan Hogrefe 63729 - 136 HWY Robert and Susan Hogrefe 63729 - 136 HWY Sheridan Cemetery 7 Terry Georges 72893 - 638 Ave Larry and Connie Dorsch 72852 - 638 Ave Larry and Connie Dorsch 72852 - 638 Ave St. Joseph Catholic Church Greg Pawloski PO BOX 406 St. Joseph Catholic Church Greg Pawloski PO BOX 406 St. Joseph Catholic Church Greg Pawloski PO BOX 406 St. Joseph Catholic Church Greg Pawloski PO BOX 406 St. Joseph Catholic Church Greg Pawloski PO BOX 406 St. Joseph Catholic Church Greg Pawloski PO BOX 406 Suki and Jay Fischer 72756 - 638 Ave 72749 - 638 Ave Suki and Jay Fischer 72756 - 638 Ave 9 St. Joseph Catholic Church Cemetary Church Cemetery Association 2012 O St. Suki and Jay Fischer Greg Pawloski PO BOX 406
International Yes No. <	Robert and Susan Hogrefe 63729 - 136 HWY Robert and Susan Hogrefe 63729 - 136 HWY Sheridan Cemetery Ferry Georges 72893 - 638 Ave Mark Harms 73083 - 638 Ave Mark Harms 73083 - 638 Ave Marken Volkmer 72854 - 638 Ave Marken Volkmer 72854 - 638 Ave St. Joseph Catholic Church Greg Pawloski PO BOX 406 St. Joseph Catholic Church Greg Pawloski PO BOX 406 Buane and Linda Volker 72818 - 638 Ave Buane and Linda Volker 72818 - 638 Ave St. Joseph Catholic Church Greg Pawloski PO BOX 406 St. Joseph Catholic Church Greg Pawloski PO BOX 406 St. Joseph Catholic Church Greg Pawloski PO BOX 406 St. Joseph Catholic Church Greg Pawloski PO BOX 406 Suki and Jay Fischer 72766 - 638 Ave John and Theressa Lindinger Suki and Jay Fischer 72766 - 638 Ave John and Theressa Lindinger S. Paul Even Ltheran Church Cemetary Church Cemetery Association 2012 O St. St. Joseph Catholic Parish Greg Pawloski PD Box 406
International No. <	Robert and Susan Hogrefe 63729 - 136 HWY Sheridan Cemetery Ferry Georges 72893 - 638 Ave Mark Harms 73031 - 637 Ave Mark Harms 73052 - 638 Ave Mark Harms 73652 - 638 Ave Mark Harms 73654 - 638 Ave St. Joseph Catholic Church Greg Pawloski PO BOX 406 St. Joseph Catholic Church Greg Pawloski PO BOX 406 Sudi and Jay Fischer 72756 - 638 Ave 72816 - 638 Ave Suki and Jay Fischer 72756 - 638 Ave 72816 - 638 Ave John and Theressa Lindinger 63811 - 728 RD S. Paul Even Ltheran Church Cemetary Church Cemetary Association 2012 O SL St. Joseph Citholic Parish Greg Pawloski PD BOX 406
International No. <	Sheridan Cemetery Terry Georges 72893 - 638 Ave Mark Harms 73083 - 637 Ave 12852 - 638 Ave Larry and Connie Dorsch 72853 - 638 Ave 12852 - 638 Ave St. Joseph Catholic Church Greg Pawloski PO BOX 406 St. Joseph Catholic Church Greg Pawloski PO BOX 406 Buane and Linda Volker 72818 - 638 Ave Racher Rieger 1218 N St. Kimberty and Lloyd Buchmeier 72749 - 638 Ave Suki and Jay Filscher 72756 - 638 Ave John and Theressa Lindinger 63811 - 728 RD S. Paul Even Ltheran Church Cernetary Church Cernetary Association 2012 O St. St Joseph Catholic Parish Greg Pawloski PD Box 406
International No. <	Terry Georges 72893 - 638 Ave Mark Hams 73083 - 637 Ave Larry and Comie Dorsch 72852 - 638 Ave Marker Volkmer 72854 - 638 Ave St. Joseph Catholic Church Greg Pavloski PO BOX 406 PO BOX 406 Duame and Linda Volker 72818 - 638 Ave Kimberty and Long Buchweit PO BOX 406 Buchweit PO BOX 406 St. Joseph Catholic Church Greg Polowski Duame and Linda Volker 72818 - 638 Ave Kimberty and Loyd Buchmeier 72781 - 638 Ave Suki and Jay Fischer 72756 - 638 Ave John and Theressa Lindinger 63811 - 728 RD S. Paul Even Ltheran Church Cemetary Church Cemetary Association 2012 O SL St. Joseph Catholic Parish Greg Pawloski PD Box 406
Instructure No No No No No No No 153 Acerage No No No No No No No No 153 Acerage No No </td <td>Mark Harms 73083 - 637 Ave Larry and Connie Dorsch 72854 - 638 Ave Lary and Connie Dorsch 72854 - 638 Ave St. Joseph Catholic Church Greg Pawloski PO BOX 406 St. Joseph Catholic Church Greg Pawloski PO BOX 406 Buane and Linda Volker 72818 - 638 Ave Rachel Rieger 1218 N St. Kimberty and Lloyd Buchmeier 72749 - 638 Ave Suki and Jay Fischer 72756 - 638 Ave John and Theressa Lindinger 63811 - 728 RD S. Paul Even Ltheran Church Cemetary Church Cemetary Association St. Joseph Catholic Parish Greg Pawloski</td>	Mark Harms 73083 - 637 Ave Larry and Connie Dorsch 72854 - 638 Ave Lary and Connie Dorsch 72854 - 638 Ave St. Joseph Catholic Church Greg Pawloski PO BOX 406 St. Joseph Catholic Church Greg Pawloski PO BOX 406 Buane and Linda Volker 72818 - 638 Ave Rachel Rieger 1218 N St. Kimberty and Lloyd Buchmeier 72749 - 638 Ave Suki and Jay Fischer 72756 - 638 Ave John and Theressa Lindinger 63811 - 728 RD S. Paul Even Ltheran Church Cemetary Church Cemetary Association St. Joseph Catholic Parish Greg Pawloski
Int S. Acerage No	Marlene Volkmer 72854 - 638 Ave St. Joseph Catholic Church Greg Pawloski PO BOX 406 St. Joseph Catholic Church Greg Polowski PO BOX 406 Duane and Linda Volker 72818 - 638 Ave Rachel Rieger 1218 N St. Kimberty and Lloyd Buchmeier 72749 - 638 Ave Suki and Jay Fischer 72756 - 638 Ave John and Theressa Lindinger 63811 - 728 RD S. Paul Even Ltheran Church Cemetary Church Cemetery Association St. Joseph Catholic Parish Greg Pawloski
Int Si Grain Elevator No No No No No No No No ISG Grain Elevator No No No No No No No No ISG Arange Yra No N	St. Joseph Catholic Church Greg Pawloski PO BOX 406 St. Joseph Catholic Church Greg Polowski PO BOX 406 Duane and Linda Volker 72818 - 638 Ave Rachel Rieger 1218 N St. Kimberty and Lloyd Buchmeier 72749 - 638 Ave Suki and Jay Fischer 72766 - 638 Ave John and Theressa Lindinger 63811 - 728 RD S. Paul Even Ltheran Church Cemetary Church Cemetary Association St. Joseph Catholic Parish Greg Pawloski
1516 Car/Junk Loft No No No No No No No No No 1556 Carringted Yes No	St. Joseph Catholic Church Greg Polowski PO BOX 406 Duane and Linda Volker 72818 - 638 Ave Rachel Rieger 1218 N St. Kimberly and Lloyd Buchmeier 72749 - 638 Ave Suki and Jay Fischer 72756 - 638 Ave John and Theressa Lindinger 63811 - 728 RD S. Paul Even Ltheran Church Cernetary Church Cernetery Association 2012 O St. St. Joseph Catholic Parish Greg Pawloski PO Box 406
155 Acerage Yes No No Yes No No Yes No	Duane and Linda Volker 72818 - 638 Ave Racher Rieger 1218 N St. Kimberly and Lloyd Buchmeier 72749 - 638 Ave Suki and Jay Fischer 72766 - 638 Ave John and Theressa Lindinger 63811 - 728 RD S. Paul Even Ltheran Church Cernetary Church Cernetary Association St Joseph Catholic Parish Greg Pawloski
Int 55 Farmeted No No No Yes No No No No No 155 Farmeted No No No Yes No No <td< td=""><td>Rachel Rieger 1218 N St. Kimberly and Lloyd Buchmeier 72749 - 638 Ave Suki and Jay Fischer 72756 - 638 Ave John and Theressa Lindinger 63811 - 728 RD S. Paul Even Ltheran Church Cemetary Church Cemetary Association 2012 O St. St Joseph Catholic Parish Greg Pawloski PO Box 406</td></td<>	Rachel Rieger 1218 N St. Kimberly and Lloyd Buchmeier 72749 - 638 Ave Suki and Jay Fischer 72756 - 638 Ave John and Theressa Lindinger 63811 - 728 RD S. Paul Even Ltheran Church Cemetary Church Cemetary Association 2012 O St. St Joseph Catholic Parish Greg Pawloski PO Box 406
Int Fig Farmatead No	Kimberty and Lloyd Buchmeier 72749 - 638 Ave Suki and Jay Filscher 72756 - 638 Ave John and Theressa Lindinger 63811 - 728 RD S. Paul Even Ltheran Church Cernetary Church Cernetery Association 2012 O St. St Joseph Catholic Parish Greg Pawloski PD Box 406
International No No Yes No	Suki and Jay Fischer 72756 - 638 Ave John and Theressa Lindinger 63811 - 728 RD S. Paul Even Ltheran Church Cemetary Church Cemetary Association 2012 O St. St Joseph Catholic Parish Greg Pawloski PO Box 406
Instructed No	John and Theressa Lindinger 63811 - 728 RD S. Paul Even Litheran Church Cemetary Association 2012 O St. St Joseph Catholic Parish Greg Pawloski PO Box 406
International No 161 Farmstead Yes No No Yes No No<	S. Paul Even Ltheran Church Cemetary Church Cemetery Association 2012 O St. St Joseph Catholic Parish Greg Pawloski PO Box 406
Integ Parametad Yes No Yes No No 163 Farmatead Yes No No Yes No No No 164 Farmatead Yes No No No No No No No 165 Well No	
Initial Farmslead No No Yes No No No No 164 Farmslead Yes No No <td< td=""><td></td></td<>	
Interfarmatead Yes No	Jack and Philis McConnaughey 63740 - 728 RD
Info No No No No No No No No DUC DEFARMSTEAD 166 Farmingead Yes No	Jack and Phyllis McConnaughey 63740 - 729 RD Dennis and Devon Volkman 63725 - 728 RD
Intel® Tes No No Yes Yes Yes Yes Yes No No 167 Livestock Operation No No No No No No No No No 168 Acerage No No No No No No No No 173 Farmstead Yes No No No No No No 173 Farmstead Yes No No No No No No 175 Other No No No No No No No No 175 Other No	Definits and Devon Volkman 55725-726 RD
If of Livestock Operation No No No No No No No No No 168 Acerage No No No No No No No No 169 Acerage No No No No No No No No 171 Livestock Operation No No No No No No No No 174 Farmstead Yes No No Yes No No No No 175 Other No No<	Eric and Francisca Bohling 63648 - 728 RD
Intelle No No No No Yes No No No 168 Acerage No No No No No No No No 173 Farmatead Yes No No Yes No No Yes No No 173 Farmatead Yes No No Yes No No No No 175 Other No	Eric and Francisca Bohling 63648 - 728 RD
171 Livestock Operation No No No No No No No No 173 Farmitead Yes No No Yes No No Yes No No Yes No No </td <td>Lois Bohling Larry Bohling 72809 - 636 Ave</td>	Lois Bohling Larry Bohling 72809 - 636 Ave
173 Farmstead Yes No Yes No No 174 Farmstead Yes No No <td< td=""><td>Lois Bohling Larry Bohling 72809 - 636 Ave</td></td<>	Lois Bohling Larry Bohling 72809 - 636 Ave
174 Farmstaad Yes No	Walter and Huldah Lunzman 63571 - 136 HWY
175 Other No No <th< td=""><td>Wesley Debuhr 63930 - 726 RD Bohling co-Trustees 63548 - 728 RD</td></th<>	Wesley Debuhr 63930 - 726 RD Bohling co-Trustees 63548 - 728 RD
176 Well No	borning too husees 63346 - / 20 RU Steffens L E Et al. Pearl Steffens 1213 23rd St.
177 Farmstead Yes No No Yes No	Steffens L E tal. Pearl Steffens 1213 23rd St.
179 Farmstead Yes No No Yes No No No No No 180 Well No No <td>Clarence Ehlers 63531 - 727 RD</td>	Clarence Ehlers 63531 - 727 RD
180 Well No <	Evelyn Rogge
181 Farmstead Yes No No Yes No No Yes No No 182 Vell No No No No No No Yes No No<	Fred Ehlers 63622 727 Rd
182 Well No No No No No Yes No No No No No 183 Farmstead Yes No No Yes No	Fred Ehlers 63622 - 727 RD
183 Farmstead No No Yes No No Yes No No Yes No	Wilber Kinghorn 63768 727 Rd Jane Smith Box 96, Brownville, NE
184 Farmstead Yes No Yes No No Yes No No Yes No	Jarie Smith Box 90, Brownville, Ne Kent Volkmer 63821 727 Rd
185 Farmstead Yes No No Yes No	Laverne and Helen Norvell Liv Trust 72767 - 638A Ave
187 Acerage No <	Eugene and Catherine Mace 72775 - 638A Ave
188 Acerage No <	Andrew Bros LLC PO BOX 5; Brownville, NE 68321
189 Grain Elevator No No No No No No No Yes 190 Accrage No No <t< td=""><td>Alma Dettmer Revoc Liv Trust PO Box 128</td></t<>	Alma Dettmer Revoc Liv Trust PO Box 128
190 / Acerage No	Alina Dettmer Revoc Liv Trust PO Box 128
191 Other No	Wilber Sherman 2800 O St. Cheryl Home 2720 Q st.
192 Machine Shop Yes No Yes No	Nemaha County 1824 N St.
193 Acerage No	Nemaha County 1824 N St.
195 Acerage No <	David and Virginia Hunter 1719 27th St.
196 Acerage No <	Lawrence and Alberta Hector 63820 - 728 RD
197 Farmstead No No No No No Ves Ves Ves No	William Stonebarger 63819 - 728 RD
198 Acerage No <	John and Theresa Lindinger 63811 - 728 RD
199 Acerage No <	Tony and Amy Hector 63816 - 728 RD John and Violice O'Connor 5825 Newton St. Lincoln 68506
200 Acerage No	Cynthia Kruger 2318 S St.
201 / Acerage No	Kevin and Christy Tanner 1914 24th St.
203 Acerage No No No No No No No No POSSIBLE WELL 204 Acerage No No No No No No No No POSSIBLE WELL 204 Acerage No No No No Yes Yes Yes No No No No POSSIBLE WELL 205 Gas Station No Yes Yes No	David and Mary Parker 1920 24th St.
204 Acerage No No No No No Yes Yes No No 205 Gas Station No Yes Yes No No No No No 206 Auto Service No No Yes No No No No No 206 Auto Service No No Yes No No No No No 207 Well No	Joseph and Michelle Dixon 2012 24th St.
205 Gas Station No Yes No No No No No 206 Auto Service No No Yes No No No No No 207 Well No No No No No No No No	Lavell and Harriet Clark 2322 U St.
206 Auto Service No No Yes No No No No No 207 Well No	Theodore and Melba Davison 1922 Q St. Casey's Casey's Retail Company 1 SE convenince Blvd; Ankeny, IA 50021
207 Well No	Richard and Marylyn Schneider PO Box 270
	James Ramsey Et al. 72696 - 75 HWY
208 Machine Shop No No Yes Yes No No No No No No No	Richard and Juanalee Alden 2320 Whitlow Ave
209/Well No	Auburn County Club PO BOX 501
210 Acerage No No No No No No Yes Yes No No	Albert Ramsey 72696 - 75 HWY
211 Well No	Albert Ramsey 72696 - 75 HWY Albert Ramsey 72696 - 75 HWY
212 Farmstead Yes No No 213 Viescho Operation No	Albert Ramsey 72696 - 75 HWY Albert Ramsey 72696 - 75 HWY
213 Eversue operation into into into into into into into	Linn Debuhr Revor Trust 72787 - 636 Ave
215 Acerage No No No No No No Yes No No No	Kathie and Harold King 63895 - 726 RD
216 Other No	St. Joseph Catholic Church Greg Pawloski PO BOX 406
217 Acerage No No No No No No Yes Yes No No	Randy and Celeste 72527 - 75 HWY
218 Acerage No No No No No Yes No No No	Denise Brown 63921 - 725 RD
219 Farmstead No No No Yes No No Yes Yes No No 220 Farmstead Yes No No 220 Farmstead Yes No No No Yes Yes No No	
220 Farmstead Yes No No Yes No No Yes No No Yes No No Yes No No 221 Farmstead No No No Yes No No Yes No No No	Herman and Alice Moenning 5327 W Luke St, Lincoln 68524
221 Parmistead No No No Yes No No Yes No No No No	Herman and Alice Moenning 5327 W Luke St, Lincoln 68524 Kenneth Heidzig Trustee Kenneth Heidzig 63947 - 725 RD
2223 Farmstead No No No Yes No No Yes No No Yes No No	Herman and Alice Moenning 5327 W Luke St, Lincoln 68524 Kenneth Heidzig Trustee Kenneth Heidzig 63947 - 725 RD Mark and Carla Patterson 72497 - 640 Ave
224 Livestock Operation No	Herman and Alice Moenning 5327 W Luke St, Lincoln 68524 Kenneth Heidzig 63947 - 725 RD Mark and Carla Patterson 72497 - 640 Ave Gary and Mary Henne 7257 RD Einic Shelton 640 Ave
225 Well No	Herman and Alice Moenning 5327 W Luke St, Lincoln 68524 Kenneth Heidzig 63947 - 725 RD Mark and Carla Patterson 72497 - 640 Ave Gary and Mary Henne 72457 - 640 Ave Eric Shelton 64163 726 RD Kenneth Heidzig 63947 - 725 RD
226 Livestock Operation No	Herman and Alice Moenning 5327 W Luke St, Lincoln 68524 Kenneth Heidzig 63947 - 725 RD Mark and Carla Patterson 72497 - 640 Ave Gary and Mary Henne 72457 - 640 Ave Eric Shefton 64163 726 RD Kenneth Heidzig 63947 - 725 RD Kenneth Heidzig 63947 - 725 RD
227/Well No	Herman and Alice Moenning 5327 W Luke St, Lincoln 68524 Kenneth Heidzig Trustee Kenneth Heidzig 63947 - 725 RD Mark and Carla Patterson 72497 - 640 Ave Gary and Mary Henne 72457 - 640 Ave Eric Shelton 64163 726 RD Kenneth Heidzig 63947 - 725 RD
228 Farmstead Yes No Yes No Yes No 229 Farmstead No No Yes No Yes No No	Kenneth Heidzig Trustee Herman and Alice Moenning 5327 W Luke St, Lincoln 68524 Kenneth Heidzig 63947 - 725 RD 640 Ave Gary and Mary Henne 72497 - 640 Ave 64163 726 RD Eric Shekton 64163 726 RD 64163 726 RD Kenneth Heidzig 63947 - 725 RD 63947 - 725 RD Kenneth Heidzig 63947 - 725 RD 63947 - 725 RD Kenneth Heidzig 63947 - 725 RD 63947 - 725 RD Kenneth Heidzig 63947 - 725 RD 63947 - 725 RD Kristin Dearing Harshman Land Co 916 Courtney Pr, Nebraska city 68410
229/Familistead No No No Yes No No Yes No No Yes No No Yes No No	Herman and Alice Moenning 5327 W Luke St, Lincoln 68524 Kenneth Heidzig Trustee Kenneth Heidzig 63947 - 725 RD Mark and Carla Patterson 72497 - 640 Ave Gary and Mary Henne 72457 - 640 Ave Eric Shelton 64163 726 RD Kenneth Heidzig 63947 - 725 RD

OBJECTI																
										GFumigant S		SiteDesc	MatDesc	FacilityName	Owner	Address
		No						Yes							Richard and Debra Cox	106 Center St.
		No				No			Yes N		lo			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Marjorie Dahlenburg	120 Center St
		No				No					es			1	Clinton and Glendolyn Bantz	63874 - 724 RD
		No				No			Yes N					1	Stewert or Joyce Kite	64022 - 724 RD
		No				No			Yes N						Bradley and Linda Petersen	117 East St.
		No				No			Yes N						Wendell jones	211 East St.
		No				No			Yes N						Wendell Jones	211 East St.
		No				No			Yes N					<u> </u>	Barry Bogan	202 North St. 4100 N Mulberry Dr. Kansas City, MO 64116
		No				No			Yes N					Debruce Ag Service	Debruce Ag Serivce	
		No				No			Yes N						Craig and Cheryl Caples	210 North St.
		No No				No No			Yes N No N	NO NO	lo		FUTURE ANHYDROUS STORAGE	Debeues As Cassies	Edith Oetjen Debruce Ag Service	72113 - 644 Ave; Stella 68442
		No				No			Yes N				FUTURE ANHTDROUS STURAGE	Debruce Ag Service		4100 N Mulberry Dr, Kansas City, MO 64116
		No				No						POSSIBLY REEMOVED			Dale and Kathryn Bohling	72268 - 75 HWY
		Yes				No				NO N		POSSIBLT REEMOVED		Union Pacific Railroad	George Jergensmeier	64373 - 724 RD Nemaha 68414
		No				No			No N			Possibly Two Underground Wells		Union Pacific Railroad		
		Yes										Possibly Two Onderground Weils			Everett and Paul Rhodes	DO DOX 201 bridges at 60226
						No					lo			Regina Rhodes	Everett and Paul Rhodes	PO BOX 284 bridgeport 69336
	TO OTAIL LIOVATOR	No Yes				No No			No Y No M		'es lo			Regina Rhodes		PO BOX 284 bridgeport 69336 72268 - 75 HWY
															Dale and Kathryn Bohling	
		No No				No No				~~~~~~~~~~~	'es				Dale and Kathryn Bohling	72268 - 75 HWY 63874 - 724 RD
		No				No				No No				Mooarkegin Farms LLC	Clinton and Clendolyn Bantz	72568 - 634 Ave
														Modarkegin Farms LLC	Mooarkegin Farms LLC	
	53 Livestock Operation					No					lo				Linn Debuhr Revoc Trust	72787 - 636 Ave
		No				No			Yes N					D	Darrel Volker	63974 - 726 RD
		No				No				No N				Regina Rhodes	Everett and Paul Rhodes	PO Box 284 Bridgeport 69336
		Yes				No					lo			GGG Farms INC	Glade Goings	64113 - 727 RD
	57 Livestock Operation					No			No No					GGG Farms INC	Glade Goings	64113 - 727 RD
		No				No				No N				GGG Farms INC	Glade Goings	64113 - 727 RD
		No				No				No N					James Grant III	1603 F St.
		Yes				No			Yes N						James Grant III Et al.	1603 F St.
		No				No			Yes N						Marvin Caspers	63558 - 724 RD
		No				No			Yes N					Auburn Franzes	Eric and Pamela Adams	64052 - 727 RD
		No				No			Yes N					Auburn Energy	E Energy Auburn LLC	6511 Winding Ridge Ct. Lincoln 68512
		No				No				No N					James and Nancy Kite	64244 - 726 RD
		No				No			No N						James and Nancy Kite	64244 - 726 RD
		No				No						UNDEVELOPED WELL			Alan and Kelly Rippe	PO BOX B, Syracuse 68446
		No				No					es				Juananlee Alden	2320 Whitlow Ave
		Yes				No			Yes N		lo				Robert and Delta Boden	63970 - 728 RD
		No				No			Yes N		lo				Joh and Jean Chatelain	4528 S 187th St.; Omaha 68135
		No				No				No N					Juanalee Alden	2320 whitlow Ave
27	74 Farmstead	Yes	No	No	Yes	No	No	Yes	Yes N	No N	lo			Nixon Family Trust	C Dana Nixon	7510 Margarita PI; Colorado Springs, CO 80919
		No	No	No	No	No	No	Yes	Yes N	No N	lo				Jimmie and Patricia Jarvis	64218 - 136 HWY
		No				No	No	No	Yes N	No N	lo				Lynn and Jana Rogge	64274 - 728 RD
27	77 Pivot	No	No	No	No	No	No	No	Yes N	No N	lo				Lynne Rogge	64274 728 Rd
		No	No	No	No	No	No	No	No N	No N	lo				Lynn and Jana Rogge	64274 - 728 RD
27	79 Pivot	No	No	No	No	No	No	No	Yes N	No N	lo				Lynn Rogge	64274 - 728 RD
28	B0 Acerage	No	No	No	No	No	No	Yes	No N	No N	lo				Larry and Debra Morris	73131 - 641 Ave
28	B1 Acerage	No	No	No	No	No	No	Yes	Yes N	No N	lo				Alan and Paula Bysfield	64040 - 731 RD
		No				No					es			Family LTD Partnership	Allan and Edine Moody	2003 - 24th St.
28	B3 Acerage	No	No	No	No	No	No	Yes	No N	No N	lo				Brian and Sandy Bradley	73104 - 640 Ave
28	84 Acerage	No	No	No	No	No	No	Yes	No N	No N	lo				Landora Laplant	73124 - 640 Ave
		No				No			No N					Gilbert Services	Michael and Marilym Gilbert	73358 - 633 Ave
28	86 Gas Station	No	Yes	Yes	No	No	No			No N	lo			Automotive Diesel INC		1100 J St.
		No				No				No N	lo				Lynn and Vicki Erisman	1816 J St.
		No				No				No N		DRY CLEANERS			Dale and Susan Thomas	809 Central Ave
28	89 Auto Service	No	No	Yes	Yes	No	No			No N	lo	****		NAPA Auto Parts		817 Central Ave.
29	90 Auto Service	No	No	Yes	Yes	No	No	No	No N	No N	lo			5500 "L" Street Properties Co, LLC	Meyer Earp Auto Center	1100 E St.
		No	No			No				No N	lo			5500 "L" Street Properties Co, LLC		1100 E St.
29	92 Auto Service	No	No			No				No N	lo			Tincher investments		814 Central Ave
		No				No				No N	lo			Car Smart, Inc	Michael Henderson	1004 14th St.
		No				No					lo				Jack and Romelle Humphrey	1322 8th St.
		No				No				No N					Randy Bennett	1100 Central Ave
		No				No					lo			Mellage Truck and Tractor	Whitlow & Mellage Inc.	1017 10th St.
		No				No						Mortuary			Graham Carver	707 15th St.
		No				No				No N	lo	MORTUARY		Hemmingsen Funeral Hone, INC		801 S St.
		No				No				No N		POWER PLANT		×	City of Auburn	1101 J St.
		No				No				No N		Parking Lot & Warehouse for Armstrong Cabinets		Armstrong Cabinets	Triangle Pacific Corp	PO Box 3001; Lancaster, PA 17604
		No	*******			No				NO N		Car Wash		Speedwash	Rite Way Oil & Gas Company Inc	PO Box 27049; 8400 I St.; Omaha, NE 68127
		No				No				No N		-		Eggers Brothers	Eggers Brothers Inc	909 J St.
		No				No			No N		lo		Insectary - bees/honey	Draper Super Bee	Larry & Brenda Draper	9147 S St.
		No				No				No N					Jeffrey Ehlers	820 P St.
		No				No				NO N					Fred & Rose Eggert	820 N St.
31	17 Well					No					lo			Kruger Trucking	Eric Mason	700 J St.
		No				No				No N			Ag Runoff	County Fairgrounds & Facilities	Nemaha County	
31	19 Machine Shop	No No				No				No N				City Water Plant	City of Auburn	818 G St.
31 32	19 Machine Shop 21 Other	No			No											
31 32 32	19 Machine Shop 21 Other 22 Other	No No	No	No						No N	lo l	Auto Salvate/Auto Service				
31 32 32 32	19 Machine Shop 21 Other 22 Other 23 Car/Junk Lot	No	No No	No Yes	Yes	No	No	No	No M			Auto Salvate/Auto Service	Anhydrous Ammonia	Beard's Salvage	James & Louan Beard	604 9th St.
31 32 32 32 32 32	19 Machine Shop 21 Other 22 Other 23 Car/Junk Lot 24 Other	No No No	No No No	No Yes No	Yes No	No Yes	No No	No No	No M No M	No N	lo	Auto Salvate/Auto Service	Anhydrous Ammonia	Beard's Salvage Dettmer Farm Service	James & Louan Beard Dettmer & Biere Farm Service Inc.	604 9th St. 504 10th St.
31 32 32 32 32 32 32	19 Machine Shop 21 Other 22 Other 23 Car/Junk Lot 24 Other 25 Other	No No No No	No No No	No Yes No No	Yes No No	No Yes No	No No No	No No No	No M No M No M	No N No N	lo lo	Auto Salvate/Auto Service	Anhydrous Ammonia	Beard's Salvage	James & Louan Beard Dettmer & Biere Farm Service Inc. Ralph Darling Trust	604 9th St. 504 10th St. 520 J St.
31 32 32 32 32 32 32 32 32	19 Machine Shop 21 Other 22 Other 23 Car/Junk Lot 24 Other 25 Other 26 Well	No No No No No	No No No No	No Yes No No No	Yes No No No	No Yes No No	No No No	No No No No	No M No M No M	No N No N	lo lo lo			Beard's Salvage Dettmer Farm Service Darling Cafe	James & Louan Beard Dettmer & Biere Farm Service Inc. Ralph Darling Trust Thomas & Camille Stanley	604 9th St. 504 10th St. 520 J St. 504 M St.
31 32 32 32 32 32 32 32 32 32 32	19 Machine Shop 21 Other 22 Other 23 Car/Junk Lot 24 Other 25 Other 26 Well 27 Other	No No No No No No	No No No No No	No Yes No No No No	Yes No No No No	No Yes No No No	No No No No No	No No No No No	No M No M No M No M	No N No N No N	lo lo lo lo	Private Storage	Multiple Unknown Contaminants Possible	Beard's Salvage Dettmer Farm Service Darling Cafe Store-N-Lock	James & Louan Beard Dettmer & Biere Farm Service Inc. Ralph Darling Trust Thomas & Camille Stanley Store-N-Lock LLC	604 9th St. 504 10th St. 520 J St.
31 32 32 32 32 32 32 32 32 32 32 32	19 Machine Shop 21 Other 22 Other 23 Car/Junk Lot 24 Other 25 Other 26 Well 27 Other 28 Other	No No No No No No No	No No No No No No	No Yes No No No No No No	Yes No No No No No	No Yes No No No Yes	No No No No No No	No No No No No No	No N No N No N No N No N	No N No N No N No N No N	lo lo lo lo lo			Beard's Salvage Dettmer Farm Service Darling Cafe Store-N-Lock	James & Louan Beard Dettmer & Biere Farm Service Inc. Ralph Darling Trust Thomas & Camille Stanley Store-N-Lock LLC City of Auburn	604 9th St. 504 10th St. 520 J St. 504 M St. 1502 6th St.
31 32 32 32 32 32 32 32 32 32 32 32 32 32	19 Machine Shop 21 Other 22 Other 23 Car/Junk Lot 24 Other 25 Other 26 Well 27 Other 28 Other 29 Acerage	No No No No No No No No	No No No No No No No No	No Yes No No No No No No No	Yes No No No No No No	No Yes No No No Yes No	No No No No No No No	No No No No No No Yes	NO N	No N No N No N No N No N No N	lo lo lo lo lo	Private Storage	Multiple Unknown Contaminants Possible	Beard's Salvage Dettmer Farm Service Darling Cafe Store-N-Lock	James & Louan Beard Dettmer & Biere Farm Service Inc. Rajph Darling Trust Thomas & Camille Stanley Store-N-Lock LLC City of Auburn Wayne and Judy Feighner	604 9th St. 504 10th St. 520 J St. 504 M St. 1502 dth St. 64227 136 Hwy
31 32 32 32 32 32 32 32 32 32 32 32 32 32	19 Machine Shop 21 Other 22 Other 23 Car/Junk Lot 24 Other 25 Other 26 Well 27 Other 28 Other 29 Acerage 30 Acerage	No No No No No No No No No No	No No No No No No No No No No	No Yes No No No No No No No	Yes No No No No No No No	No Yes No No Yes No No	No No No No No No No No	No No No No No Yes Yes	No N	No N No N No N No N No N No N	lo lo lo lo lo lo	Private Storage	Multiple Unknown Contaminants Possible	Beard's Salvage Dettmer Farm Service Darling Cafe Store-N-Lock Auburn Rec Complex	James & Louan Beard Dettmer & Biere Farm Service Inc. Ralph Darling Trust Thomas & Camille Stanley Store-N-Lock LLC City of Auburn Wayne and Judy Feighner Paula Winkelman	604 9th St. 504 10th St. 520 J St. 504 M St. 1502 6th St. 64227 136 Hwy 64231 136 Hwy
31 32 32 32 32 32 32 32 32 32 32 32 32 32	19 Machine Shop 21 Other 22 Other 23 Car/Junk Lot 24 Other 25 Other 26 Well 27 Other 28 Other 29 Accrage 30 Accrage	No No No No No No No No No No No	No No No No No No No No No No No	No Yes No No No No No No No No	Yes No No No No No No No No	No Yes No No Yes No No No	No No No No No No No No	No No No No No Yes Yes Yes	No N	No N No N No N No N No N No N No N	lo lo lo lo lo lo lo lo	Private Storage	Multiple Unknown Contaminants Possible	Beard's Salvage Dettmer Farm Service Darling Cafe Store-N-Lock	James & Louan Beard Dettmer & Biere Farm Service Inc. Rajh Darling Trust Thomas & Camille Stanley Store-N-Lock LLC City of Auburn Wayne and Judy Feighner Paula Winkelman Paula Winkelman	604 9th St. 504 10th St. 502 J St. 504 M St. 1502 6th St. 64227 136 Hwy 64231 136 Hwy 64233 136 Hwy
31 32 32 32 32 32 32 32 32 32 32 32 32 32	19 Machine Shop 21 Other 22 Other 23 CarJunk Lot 24 Other 25 Other 26 Well 27 Other 28 Other 28 Acerage 30 Acerage 31 Acerage	No No No No No No No No No No No No	No No No No No No No No No No	No Yes No No No No No No No No No No	Yes No No No No No No No No	No Yes No No Yes No No No No No	No No No No No No No No No No	No No No No No Yes Yes Yes Yes	No N	No N	lo lo lo lo lo lo lo lo lo lo	Private Storage	Multiple Unknown Contaminants Possible	Beard's Salvage Dettmer Farm Service Darling Cafe Store-N-Lock Auburn Rec Complex Boondocks Restaurant	James & Louan Beard Dettmer & Biere Farm Service Inc. Ralph Darling Trust Thomas & Camille Stanley Store-N-Lock LLC City of Auburn Wayne and Judy Feighner Paula Winkelman Clarence and Donna Jeanneret	604 9th St. 504 10th St. 520 J St. 504 M St. 1502 6th St. 44227 136 Hwy 64231 136 Hwy 64233 136 Hwy 64259 136 Hwy
31 32 32 32 32 32 32 32 32 32 32 32 33 33	19 Machine Shop 21 Other 22 Other 23 CarJunk Lot 24 Other 25 Other 26 Well 27 Other 28 Acerage 30 Acerage 31 Acerage 31 Acerage 32 Acerage	No No No No No No No No No Yes	No No No No No No No No No No No	No Yes No No No No No No No Yes	Yes No No No No No No No Yes	No Yes No No Yes No No No No	No No No No No No No No No No	No No No No Yes Yes Yes Yes Yes	No N	No N	lo lo lo lo lo lo lo lo lo lo	Private Storage Auburn Rec Complex	Multiple Unknown Contaminants Possible Potential Runoff and Fertilizer from fields and parking	Beard's Salvage Detimer Fam Service Darling Cafe Store-N-Lock Auburn Rec Complex Boondocks Restaurant Auto Repair	James & Louan Beard Dettmer & Biere Farm Service Inc. Rajhp Darling Trust Thomas & Camille Stanley Store-N-Lock LLC City of Auburn Wayne and Judy Feighner Paula Winkeliman Paula Winkeliman Clarence and Donna Jeanneret Tad Petersen	604 9th St. 504 10th St. 520 J St. 504 M St. 1502 6th St. 64227 136 Hwy 64231 136 Hwy 64233 136 Hwy 64233 136 Hwy 64233 137 Hwy 64259 136 Hwy
31 32 32 32 32 32 32 32 32 32 32 32 32 32	19 Machine Shop 21 Other 22 Other 23 CarJunk Lot 24 Other 25 Other 26 Well 27 Other 28 Other 29 Accrage 30 Accrage 31 Accrage 32 Accrage 34 Auto Service 35 Farmstead	No No No No No No No No No No No Yes Yes	No No No No No No No No No No No No	No Yes No No No No No No No Yes No	Yes No No No No No No No Yes Yes	No Yes No No Yes No No No No No No	No No No No No No No No No No No	No No No No Ves Yes Yes Yes Yes Yes Yes	No N	No N	lo lo lo lo lo lo lo lo lo lo lo	Private Storage Auburn Rec Complex Farmstead	Multiple Unknown Contaminants Possible	Beard's Salvage Detmer Farm Service Darling Cafe Store-N-Lock Auburn Rec Complex Boondocks Restaurant Auto Repair Wheeler Farm	James & Louan Beard Dettmer & Biter Farm Service Inc. Ralph Darling Trust Thomas & Camille Stanley Store-N-Lock LLC City of Auburn Wayne and Judy Feighner Paula Winkelman Clarence and Donna Jeanneret Tad Petersen Gale Wheeler	604 9th St. 504 10th St. 502 J St. 504 M St. 1502 Bin St. 44227 136 Hwy 64231 136 Hwy 64233 136 Hwy 64259 136 Hwy 63886 723 RD 63856 725 RD
31 32 32 32 32 32 32 32 32 32 32 32 32 32	19 Machine Shop 21 Other 22 Other 23 CarJunk Lot 24 Other 25 Other 25 Other 28 Well 27 Other 29 Accrage 31 Accrage 31 Accrage 32 Accrage 34 Auto Service 35 Farmstead	No No No No No No No No No No No Yes Yes Yes	No No No No No No No No No No No No	No Yes No No No No No No No Yes No No	Yes No No No No No No No Yes Yes Yes	No Yes No No Yes No No No No No No No No	No No No No No No No No No No No No	No No No No Yes Yes Yes Yes Yes Yes Yes	No N	No N	lo lo lo lo lo lo lo lo lo lo lo lo lo l	Private Storage Auburn Rec Complex	Multiple Unknown Contaminants Possible Potential Runoff and Fertilizer from fields and parking	Beard's Salvage Detimer Fam Service Darling Cafe Store-N-Lock Auburn Rec Complex Boondocks Restaurant Auto Repair	James & Louan Beard Dettmer & Biere Farm Service Inc. Raiph Darling Trust Thomas & Camille Stanley Store-N-Lock LLC City of Auburn Wayne and Judy Feighner Paula Winkelman Paula Winkelman Clarence and Donna Jeanneret Tad Petersen Gale Wheeler Jim Biaggi	604 9th St. 504 10th St. 520 J St. 504 X St. 1502 6th St. 1502 6th St. 64223 136 Hwy 64231 136 Hwy 64233 136 Hwy 64239 136 Hwy 64259 136 Hwy 63989 725 RD 63989 725 RD
31 32 32 32 32 32 32 32 32 32 32 32 32 32	19 Machine Shop 21 Other 22 Other 23 CarJunk Lot 24 Other 25 Other 26 Well 27 Other 28 Other 29 Accrage 30 Accrage 31 Accrage 31 Accrage 32 Accrage 33 Accrage 34 Auto Service 35 Farmstead 36 Farmstead	No No No No No No No No No No No Yes Yes Yes No	No No No No No No No No No No No No No	No Yes No No No No No No No Yes No	Yes No No No No No No No No Yes Yes Yes No	No Yes No No Yes No No No No No No No No	No No No No No No No No No No No No No N	No No No No Yes Yes Yes Yes Yes Yes Yes	No Nyes Nyes Nyes Nyes Nyes Nyes Nyes Nyes	No N	lo lo lo lo lo lo lo lo lo lo lo lo	Private Storage Auburn Rec Complex Farmstead	Multiple Unknown Contaminants Possible Potential Runoff and Fertilizer from fields and parking	Beard's Salvage Detmer Farm Service Darling Cafe Store-N-Lock Auburn Rec Complex Boondocks Restaurant Auto Repair Wheeler Farm	James & Louan Beard Dettmer & Bitere Farm Service Inc. Ralph Darling Trust Thomas & Camille Stanley Store-N-Lock LLC City of Auburn Wayne and Judy Feighner Paula Winkelman Clarence and Donna Jeanneret Tad Petersen Gale Wheeler Jim Biaggi Brett Mattee	604 9th St. 504 10th St. 520 J St. 504 M St. 1502 0th St. 64227 136 Hwy 64231 136 Hwy 64231 136 Hwy 64239 136 Hwy 64239 136 Hwy 63898 723 RD 63593 725 RD 63733 725 RD 63733 725 RD
31 32 32 32 32 32 32 32 32 32 32 32 32 33 33	19 Machine Shop 21 Other 22 Other 23 CarJunk Lot 24 Other 25 Other 25 Other 28 Other 29 Acerage 31 Acerage 31 Acerage 32 Acerage 34 Auto Service 35 Farmstead 37 Acerage	No No No No No No No No No No No Yes Yes No No	No No No No No No No No No No No No No N	No Yes No	Yes No No No No No No No No Yes Yes No No	No Yes No No Yes No No No No No No No No	No No No No No No No No No No No No No N	No No No No Yes Yes Yes Yes Yes Yes Yes Yes Yes	No N	No N	lo lo lo lo lo lo lo lo lo lo lo lo lo l	Private Storage Auburn Rec Complex Farmstead	Multiple Unknown Contaminants Possible Potential Runoff and Fertilizer from fields and parking	Beard's Salvage Detmer Farm Service Darling Cafe Store-N-Lock Auburn Rec Complex Boondocks Restaurant Auto Repair Wheeler Farm	James & Louan Beard Dettmer & Biere Farm Service Inc. Raiph Darling Trust Thomas & Camille Stanley Store-N-Lock LLC City of Auburn Wayne and Judy Feighner Paula Winkelman Paula Winkelman Darber and Donna Jeanneret Tad Petersen Gale Wheeler Jim Biaggi Brett Mattee J. Drasler	604 9th St. 504 10th St. 520 J St. 504 X St. 1502 6th St. 64221 136 Hwy 64231 136 Hwy 64233 136 Hwy 64239 136 Hwy 64259 136 Hwy 63989 725 RD 63989 725 RD 63989 725 RD 73113 640 AVE
31 32 32 32 32 32 32 32 32 32 32 32 32 32	19 Machine Shop 21 Other 22 Other 23 CarJunk Lot 23 CarJunk Lot 24 Other 25 Other 26 Well 27 Other 28 Other 29 Accrage 30 Accrage 31 Accrage 32 Accrage 35 Farmstead 36 Farmstead 37 Accrage 39 Farmstead	No No No No No No No No No Yes Yes No No No	No No No No No No No No No No No No No N	No Yes No	Yes No No No No No No No Yes Yes No No No No No Yes	No Yes No No Yes No No No No No No No No No	No No No No No No No No No No No No No N	No No No No Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes	No No No No No No Yes N	No N	lo lo lo lo lo lo lo lo lo lo lo lo lo l	Private Storage Auburn Rec Complex Farmstead	Multiple Unknown Contaminants Possible Potential Runoff and Fertilizer from fields and parking	Beard's Salvage Detmer Farm Service Darling Cafe Store-N-Lock Auburn Rec Complex Boondocks Restaurant Auto Repair Wheeler Farm	James & Louan Beard Dettmer & Biere Farm Service Inc. Ralph Darling Trust Thomas & Camille Stanley Store-N-Lock LLC City of Auburn Wayne and Judy Felghner Paula Winkelman Clarence and Donna Jeanneret Tad Petersen Gale Wheeler Jim Biegg! Brett Mattee J. Drasler E. Schlange	604 9th St. 504 10th St. 520 J St. 504 X St. 1502 dth St. 40427 136 Hwy 64231 136 Hwy 64231 136 Hwy 64233 136 Hwy 64233 136 Hwy 64253 136 Hwy 64253 136 Hwy 64253 136 Hwy 63280 725 RD 63733 725 RD 63733 725 RD 63733 725 RD 63733 725 RD 63733 725 RD
31 32 32 32 32 32 32 32 32 32 32 32 32 32	19 Machine Shop 19 Other 21 Other 22 Other 23 Carlyunk Lot 24 Other 25 Other 26 Well 27 Other 28 Other 29 Acerage 31 Acerage 32 Acerage 34 Auto Service 36 Farmstead 37 Acerage 38 Acerage 39 Farmstead 39 Farmstead 30 Farmstead 39 Farmstead 30 Farmstead	No No No No No No No No No No Yes Yes Yes No No No No	No No No No No No No No No No No No No N	No Yes No	Yes No No No No No No No Yes Yes Yes Yes Yes Yes Yes	No Yes No No Yes No No No No No No No No No No No No	No No No No No No No No No No No No No N	No No No No Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes	No No No No No No No No Yes N	No N	lo lo lo lo lo lo lo lo lo lo lo lo lo l	Private Storage Auburn Rec Complex Farmstead	Multiple Unknown Contaminants Possible Potential Runoff and Fertilizer from fields and parking Bulk fuel	Beard's Salvage Detmer Farm Service Darling Cafe Store-N-Lock Auburn Rec Complex Boondocks Restaurant Auto Repair Wheeler Farm	James & Louan Beard Dettmer & Biere Farm Service Inc. Ralph Darling Trust Thomas & Camille Starley Store-N-Lock LLC City of Auburn Wayne and Judy Feighner Paula Winkelman Clarence and Donna Jeanneret Tad Petersen Gale Wheeler Jim Biaggi Srett Mattee J, Draster E, Schlange Wendy Paessly	604 9th St. 504 10th St. 520 J St. 504 M St. 1502 6th St. 4227 136 Hwy 64231 136 Hwy 64233 136 Hwy 64239 136 Hwy 64259 136 Hwy 63389 725 RD 63389 725 RD 63389 725 RD 63387 725 RD 63387 725 RD 63387 725 RD 63387 725 RD 63387 725 RD
31 32 32 32 32 32 32 32 32 32 32 33 33 33	19 Machine Shop 19 Other 21 Other 22 Other 23 CarJunk Lot 23 CarJunk Lot 24 Other 25 Other 26 Well 27 Other 28 Other 29 Acerage 30 Acerage 31 Acerage 32 Acerage 35 Farmstead 36 Farmstead 39 Farmstead 40 Farmstead 40 Farmstead 41 Farmstead	No No No No No No No No No No Yes Yes Yes No No No No No No	No No No No No No No No No No No No No N	No Yes No	Yes No No No No No No No Yes Yes No Yes Yes Yes Yes	No Yes No No Yes No No No No No No No No No No No	No No	No No No No Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes	No N	No N	lo lo lo lo lo lo lo lo lo lo lo lo lo l	Private Storage Auburn Rec Complex Farmstead	Multiple Unknown Contaminants Possible Potential Runoff and Fertilizer from fields and parking	Beard's Salvage Detmer Farm Service Darling Cafe Store-N-Lock Auburn Rec Complex Boondocks Restaurant Auto Repair Wheeler Farm	James & Louan Beard Dettmer & Biere Farm Service Inc. Rajh Darling Trust Thomas & Camille Stanley Store-N-Lock LLC City of Auburn Wayne and Judy Feighner Paula Winkelman Clarence and Donna Jeanneret Tad Petersen Gale Wheeler Jim Biaggi Brett Mattee J. Drasler E. Schlange Wendy Paessly Elmer Schlange	604 9th St. 504 10th St. 502 4th St. 504 M St. 1502 6th St. 64227 136 Hwy 64231 136 Hwy 64233 136 Hwy 64233 136 Hwy 64233 136 Hwy 64253 136 Hwy 63398 723 RD 63898 725 RD 63733 725 RD 63733 725 RD 63733 726 RD 63733 728 RD 63737 728 RD 73737 728 RD 7377 728 RD 7377 728 RD 7377 728 RD 73777 728 RD 73777 728 RD 73777 728 RD 73777 728 RD 7377
31 32 32 32 32 32 32 32 32 32 32 32 32 33 33	19 Machine Shop 19 Other 21 Other 22 Other 23 CarlJunk Lot 24 Other 25 Other 26 Well 27 Other 28 Other 29 Accrage 31 Accrage 24 Actrage 34 Auto Service 35 Farmstead 36 Accrage 39 Farmstead 39 Farmstead 30 Farmstead 14 Farmstead 21 Farmstead 24 Farmstead	No No No No No No No No Yes Yes No No No No No No No No No No	No No No No No No No No No No No No No N	No Yes No	Yes	No Yes No No Yes No No No No No No No No No No No No No	No Yes	No No No Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes	No N	No N	IO IO IO IO IO IO IO IO IO IO IO IO IO I	Private Storage Auburn Rec Complex Farmstead	Multiple Unknown Contaminants Possible Potential Runoff and Fertilizer from fields and parking Bulk fuel	Beard's Salvage Detmer Farm Service Darling Cafe Store-N-Lock Auburn Rec Complex Boondocks Restaurant Auto Repair Wheeler Farm	James & Louan Beard Dettmer & Biere Farm Service Inc. Ralph Darling Trust Thomas & Camille Stanley Store-N-Lock LLC City of Auburn Wayne and Judy Feighner Paula Winkelman Clarence and Donna Jeanneret Tad Petersen Gale Wheeler Jim Biaggi Brett Mattee J. Drasler E. Schlange Wendy Paessly Elmer Schlange Chris Vinson	604 9th St. 504 10th St. 504 10th St. 504 M St. 1502 6th St. 404227 136 Hwy 64231 136 Hwy 64231 136 Hwy 64259 136 Hwy 63389 723 RD 63389 723 RD 63389 723 RD 63387 725 RD 63387 725 RD 63389 64 AVE 63208 638 AVE 72565 637 AVE 63308 638 AVE 72557 637 AVE
31 32 32 32 32 32 32 32 32 32 32 32 32 33 33	19 Machine Shop 10 Other 21 Other 22 Other 23 CarJunk Lot 24 Other 25 Other 26 Well 27 Other 28 Other 29 Acerage 30 Acerage 31 Acerage 32 Acerage 34 Auto Service 35 Farmstead 37 Acerage 38 Acerage 39 Farmstead 41 Farmstead 41 Farmstead 42 Farmstead 43 Farmstead 43 Farmstead 43 Farmstead 43 Farmstead	No No No No No No No No No No Yes Yes Yes No No No No No No No	No No No No No No No No No No No No No N	No Yes No	Yes	No No No No No No No No No No No No No N	No Yes Yes No	No No No No No Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes	No No No N No N No N No N No N Yes N	No N	IO IO IO IO IO IO IO IO IO IO IO IO IO I	Private Storage Auburn Rec Complex Farmstead	Multiple Unknown Contaminants Possible Potential Runoff and Fertilizer from fields and parking Bulk fuel	Beard's Salvage Detmer Farm Service Darling Cafe Store-N-Lock Auburn Rec Complex Boondocks Restaurant Auto Repair Wheeler Farm	James & Louan Beard Dettmer & Biere Farm Service Inc. Rajh Darling Trust Thomas & Camille Stanley Store-N-Lock LLC City of Auburn Wayne and Judy Feighner Paula Winkelman Clarence and Donna Jeanneret Tad Petersen Gale Wheeler Jim Biaggi Brett Mattee E. Schlange Wendy Paessly Elmer Schlange Chris Vinson Kevin Schlange	604 9th St. 504 10th St. 502 10th St. 504 M St. 1502 6th St. 64227 136 Hwy 64231 136 Hwy 64233 136 Hwy 64233 136 Hwy 64233 136 Hwy 64253 136 Hwy 63398 725 RD 63898 725 RD 63733 725 RD 63733 725 RD 63733 726 RD 63733 726 RD 63734 726 RD 63734 726 RD 6374 1726 RD
31 32 32 32 32 32 32 32 32 32 32 32 33 33	19 Machine Shop 19 Other 21 Other 23 Carl/Junk Lot 24 Other 25 Other 26 Well 27 Other 28 Other 29 Accrage 31 Accrage 24 Actorage 34 Auto Service 35 Farmstead 36 Farmstead 36 Accrage 24 Actorsge 24 Actorsge 24 Actorsge 24 Actorsge 26 Farmstead 36 Farmstead 36 Parmstead 31 Accrage 24 Actorsge 25 Farmstead 36 Farmstead 37 Accrage 38 Accrage 39 Farmstead 34 Farmstead 34 Farmstead 35 Farmstead 36 Farmstead 37 Farmstead 37 Farmstead 38 Farmstead 39 Farmstead 36 Farmstead 37 Farmstead 38 Farmstead 39 Farmstead 37	No No No No No No No No Yes Yes No No No No No No No No No No	No No No No No No No No No No No No No N	No Yes No No	Yes	No Yes No No Yes No No	No Yes Yes No	No No No No Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes	No No No N No N No N No N No N Yes N	No N Vo N No N	IO IO IO IO IO IO IO IO IO IO IO IO IO I	Private Storage Auburn Rec Complex Farmstead	Multiple Unknown Contaminants Possible Potential Runoff and Fertilizer from fields and parking Bulk fuel	Beard's Salvage Detmer Farm Service Darling Cafe Store-N-Lock Auburn Rec Complex Boondocks Restaurant Auto Repair Wheeler Farm	James & Louan Beard Dettmer & Biere Farm Service Inc. Ralph Darling Trust Thomas & Camille Stanley Store-N-Lock LLC City of Auburn Wayne and Judy Feighner Paula Winkelman Clarence and Donna Jeanneret Tad Petersen Gale Wheeler Jim Biaggi Brett Mattee J. Drasler E. Schlange Wendy Paessly Elmer Schlange Chris Vinson	604 9th St. 504 10th St. 504 10th St. 504 M St. 1502 6th St. 404227 136 Hwy 64231 136 Hwy 64231 136 Hwy 64259 136 Hwy 63389 723 RD 63389 723 RD 63389 723 RD 63387 725 RD 63387 725 RD 63389 64 AVE 63208 638 AVE 72565 637 AVE 63308 638 AVE 72557 637 AVE

OBJECTID SiteType 346 Farmstead	AGFi Yes	No No	AutoChen	n Solvents Yes			eptic PV es Ye	Iell GFumigant	SFumigant No	SiteDesc	MatDesc	FacilityName	Owner Harlan Bohling	Address 63502 727 RD
347 Farmstead	No	No	No	Yes		No Ye			No	Inactive well	2 inactive wells			72742 634 Ave
348 Farmstead	No	No	No	Yes		No Ye			No	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				72753 634A Ave
349 Other	No	No	No	No		No Ye	es No	No	No			Hickory Grove Church		72796 634 AVE
350 Livestock Operat		No	No	No		No No			No	Old feedlot				72513 636 AVE
351 Farmstead	No	No	No	Yes					No		Inactive well			72513 636 AVE
352 Farmstead 353 Livestock Operat	Yes	No No	No No	Yes		Yes Ye No No			No No	Feedlot		Feedlot	Jim Steffens	72823 634 AVE
355 Airport	No	No	No	No		No No			No				Jim Steffens	72823 634 AVE
356 Livestock Operat		No	No	No		No No			No		Feedlot			72824 634 AVE
357 Farmstead	No	No	No	Yes	No	Yes Ye	es Ye	s No	No				Jim Steffens	72824 634 AVE
358 Acerage	No	No	No	No		No Ye			No				Mary Lynn Wininger	72850 634 AVE
360 Acerage	No	No	No	No		No Ye			No					72877 634 AVE
361 Acerage 362 Farmstead	No No	No No	No No	No Yes		No Ye No Ye			No No					72887 634 AVE 72892 634 Ave
363 Gas Station	No	Yes	Yes	No		No No			No	Possible underground tanks				63399 HWY 136
364 Car/Junk Lot	No	No	Yes	Yes		No No			No		Junk Cars			63411 136 HWY
365 Acerage	No	No	No	No		No Ye			No					63411 136 HWY
366 Farmstead	No	No	No	Yes		No Ye			No		2 inactive wells			63418 136 HWY
367 Acerage 368 Livestock Operat	No	No No	No No	No No		No Ye No No			No No	****				72950 634 AVE 63382 136 HWY
369 Farmstead	Yes	No	No	Yes		No Ye			No					63382 136 HWY
370 Acerage	No	No	No	No		No Ye			No					63326 136 HWY
371 Farmstead	No	No	No	Yes	No	No Ye			No					63329 136 HWY
372 Livestock Operat		No	No	No		No No			No		Old Pig Barn			72939 633 AVE
373 Acerage	No	No	No	No		No Ye			No					72945 633 Ave
374 Acerage	No	No	No	No		No Ye No Ye			No No					72977 633 AVE
375 Acerage 376 Farmstead	No No	No No	No No	No No		No Ye No Ye			No No		Inactive Onsite WW			63274 730 RD 63361 730 RD
376 Farmstead 377 Farmstead	No	No	No	Yes		No Ye			No		Inactive Onsite www			73012 634 RD
378 Farmstead	No	No	No	No		No Ye			No					73056 635 AVE
381 Livestock Operat	ion No	No	No	No	No	No No	o No	No	No			Old hog barn	Ken Harms	63600 730 RD
382 Acerage	No	No	No	No		No Ye			No					63522 731 RD
383 Farmstead	No	No	No	Yes		No Ye			No	Compton:				63562 731 RD
385 Other 386 Farmstead	No No	No	No	No No		No No No Ye			No No	Cemetery		Lyndon Cemetery		S. of 63562 731 RD 63599 731 RD
386 Farmstead 387 Farmstead	No	No	No	Yes		NO YE NO YE			No		Inactive wll			73157 636 AVE
388 Farmstead	No	No	No	No		No Ye			No					63628 731 RD
390 Livestock Operat	ion No	No	No	No	No	No No	o No	No	No	Small feedlot			Barb Tritsch	63628 731 RD
391 Acerage	No	No	No	No		No Ye			No					73027 637 AVE
392 Farmstead 393 Farmstead	No	No	No	Yes		No Ye			No		Inactive well			73031 637 AVE
393 Farmstead 394 Farmstead	Yes No	No No	No No	Yes		No Ye No Ye			No No		Inactive well		Mark Harms Pat Collins	73083 637 AVE 73098 637 AVE
395 Livestock Operat		No	No	No		No No			No		4 large pins			73143 637 AVE
396 Farmstead	Yes	No	No	Yes		Yes Ye			No		i i i i i go piño			73143 637 AVE
397 Farmstead	No	No	No	Yes	No	No Ye			No				Ralph Drier	73224 637B AVE
398 Well	No	No	No	No		No No			No		2 inactive wells			NE of 636B&732A
399 Acerage	No	No	No	No		No Ye			No					73237 636B Ave
400 Acerage	No	No	No	No		No Ye No Ye			No No		1 inactive village well			73232 636A Ave
401 Acerage 402 Acerage	No No	No No	No No	No No		No Ye No Ye			No					73226 636A Ave 73242 636A Ave
403 Acerage	No	No	No	No		No Ye			No					63634 732A RD
404 Acerage	No	No	No	No	No	No Ye	s No	No	No			Glenrock	Ted Barnett	63633 732A RD
		No	No	No		No Ye			No					73241 636B AVE
405 Acerage	No			Yes		Yes Ye			No					73272 638 AVE
406 Acerage	No	No	No				es No es No		No					73264 638 AVE
406 Acerage 407 Acerage	No No	No No	No	No							1		Connio Pridaowator	72240 629 41/E
406 Acerage 407 Acerage 408 Acerage	No No No	No		No No No	No	NO YE NO YE NO YE			No No				Connie Bridgewater Chuck Comstock	73240 638 AVE 63847 732 RD
406 Acerage 407 Acerage	No No	No No No	No No	No	No No	No Ye	es No	No			1		Chuck Comstock	73240 638 AVE 63847 732 RD 63865 732 RD
406 Acerage 407 Acerage 408 Acerage 409 Acerage 410 Acerage 411 Acerage	No No No No	No No No No	No No No	No No	No No No	No Ye No Ye	es No es No	No No	No				Chuck Comstock Jim Dedic Dennis Meyer	63847 732 RD 63865 732 RD 63874 732 RD
406 Acerage 407 Acerage 408 Acerage 409 Acerage 410 Acerage 411 Acerage 412 Acerage	No No No No No No	No No No No No No No	No No No No No No	No No No No No	No No No No	No Ye No Ye No Ye No Ye No Ye	es No es No es No es No	No No No	No No No No				Chuck Comstock Jim Dedic Dennis Meyer Dick Moody	63847 732 RD 63865 732 RD 63874 732 RD 63873 732 RD
406 Acerage 407 Acerage 408 Acerage 409 Acerage 410 Acerage 411 Acerage 412 Acerage 412 Acerage 413 Acerage	No No No No No No No	No No No No No No No No No No	No No No No No No No No	No No No No No No	No No No No No	No Ye	es No es No es No es No es Yes	No No No No s No	No No No No No				Chuck Comstock Jim Dedic Dennis Meyer Dick Moody Randy Perry	63847 732 RD 63865 732 RD 63874 732 RD 63873 732 RD 73191 HWY 75
406 Acerage 407 Acerage 408 Acerage 409 Acerage 410 Acerage 411 Acerage 412 Acerage 413 Acerage 413 Acerage	No No No No No No No No No No	No No No No No No No No No	No No No No No No No No No	No No No No No No No	No No No No No No	No Ye	es No es No es No es No es Yes es No	No No No S No No No	No No No No No No				Chuck Comstock Jim Dedic Dennis Meyer Dick Moody Randy Perry	63847 732 RD 63865 732 RD 63874 732 RD 63873 732 RD
406 Acerage 407 Acerage 408 Acerage 409 Acerage 410 Acerage 411 Acerage 412 Acerage 413 Acerage 413 Acerage 414 Acerage 414 Acerage	No No No No No No No No No No	No No No No No No No No No	No No No No No No No Yes	No No No No No No Yes	No No No No No No No No	No Ye	es No es No es No es No es Yes es No o No	No No No No s No No No	No No No No No				Chuck Comstock Jim Dedic Dennis Meyer Dick Moody Randy Perry Marv Biere	63847 732 RD 63875 732 RD 63874 732 RD 63873 732 RD 73191 Hwy 75 73182 Hwy 75
406 Acerage 407 Acerage 408 Acerage 409 Acerage 410 Acerage 411 Acerage 412 Acerage 413 Acerage 413 Acerage	No No No No No No No No No No	No No No No No No No No No	No No No No No No No No No	No No No No No No No	No No No No No No No No No	No Ye	es No es No es No es No es Yes es No o No o No	No	No No No No No No No			Mellage Truck & Tractor	Chuck Comstock Jim Dedic Dennis Meyer Dick Moody Randy Perry Marv Biere Brian Mellage	63847 732 RD 63865 732 RD 63874 732 RD 63873 732 RD 73191 HWY 75
406 Acerage 407 Acerage 408 Acerage 409 Acerage 410 Acerage 411 Acerage 412 Acerage 412 Acerage 413 Acerage 414 Acerage 414 Acerage 415 Auto Service 416 Machine Shop 417 Acerage 418 Famstead	No No No No No No No No No No No No No N	No No No No No No No No No No No No No	No No No No No No No Yes Yes No No	No No No No No No Yes Yes No Yes	No No No No No No No No No No	No Ye No Ye No Ye No Ye No Ye No Ye No Ye No No No No No Ye	es No es No es No es Yes es No o No o No o No es No es No es No	No No No S No No No No No No	No No No No No No No No			Mellage Truck & Tractor	Chuck Comstock Jim Dedic Dennis Meyer Dick Moody Randy Perry Marv Biere Brian Mellage Benjamin Gerdes Nevin Miller	63847 732 RD 63865 732 RD 63874 732 RD 63873 732 RD 73191 HWY 75 73192 HWY 75 73182 HWY 75 73147 HWY 75 73147 HWY 75
406 Acerage 407 Acerage 408 Acerage 409 Acerage 410 Acerage 411 Acerage 412 Acerage 413 Acerage 414 Acerage 414 Acerage 414 Acerage 415 Auto Service 416 Machine Shop 417 Acerage 418 Farmstead	No No No No No No No No Yes No No No	No No No No No No No No No No No No No	No No No No No No Yes Yes No No Yes	No No No No No Yes Yes No Yes Yes	No No No No No No No No No No No No	No Ye No Ne No Ye No Ye No Ye No Ye No No	es No es No es No es Yes es No o No o No es No es No o No es No	No No No S No No No No No No No No	No No No No No No No No No No No			Mellage Truck & Tractor Stutheit Implement	Chuck Comstock Jim Dedic Dennis Meyer Dick Moody Randy Perry Marv Biere Brian Mellage Benjamin Gerdes Nevin Miller Stanley Stutheit	6384 7 32 RD 6386 7 32 RD 6387 3 732 RD 6387 3 732 RD 73191 HWY 75 73182 HWY 75 73160 HWY 75 73147 HWY 75 73147 HWY 75 73136 HWY 75
406 Acerage 407 Acerage 408 Acerage 409 Acerage 410 Acerage 411 Acerage 413 Acerage 413 Acerage 413 Acerage 414 Acerage 416 Auto Service 416 Auchine Shop 417 Acerage 418 Famstead 420 Machine Shop 421 Auto Service	No No No No No No No No Yes No No No No	No	No No No No No No Yes Yes No No Yes Yes	No No No No No No Yes Yes Yes Yes Yes Yes	No No No No No No No No No No No No No	No Ye No Ye	es No es No es No es Yes es No es No es No es No es No es No es No	No No No No No No No No No No No No No N	No No No No No No No No No No No No No			Mellage Truck & Tractor Stutheit Implement Stutheit Implement	Chuck Comstock Jim Dedic Dennis Meyer Dick Moody Randy Perry Marv Biere Brian Mellage Benjamin Gerdes Nevin Miller Stanley Stutheit	6384 7 32 RD 6386 7 32 RD 6387 7 32 RD 6387 7 32 RD 73191 HWY 75 73192 HWY 75 73142 HWY 75 73147 HWY 75 73147 HWY 75 73145 HWY 75 73136 HWY 75
406 Acerage 407 Acerage 408 Acerage 409 Acerage 410 Acerage 411 Acerage 412 Acerage 412 Acerage 413 Acerage 414 Acerage 414 Machine Shop 417 Acerage 418 Farmsteah 420 Machine Shop 421 Auto Service 422 Machine Shop	No No No No No No No No Yes No No No No	No	No No No No No No No Yes Yes No Yes Yes Yes Yes	No No No No No Yes Yes No Yes Yes Yes Yes Yes	No No No No No No No No No No No No No	No Ye No No	No No 25 No No 25 No No 25 No No 26 No No 27 No No 28 No No 29 No No 29 No No 29 No No 29 No No 20 No No 20 No No	No No No No No No No No No No No No No N	No No No No No No No No No No No No			Mellage Truck & Tractor Stutheit Implement Stutheit Implement Stutheit Implement	Chuck Comstock Jim Dedic Dennis Meyer Dick Moody Randy Perry Marv Biere Briam Mellage Benjamin Gerdes Benjamin Gerdes Stanley Stutheit Stanley Stutheit	6384 7 32 RD 6386 7 32 RD 6387 3 732 RD 6387 3 732 RD 73191 HWY 75 73182 HWY 75 73160 HWY 75 73147 HWY 75 73147 HWY 75 73136 HWY 75 73136 HWY 75
406 Acerage 407 Acerage 408 Acerage 409 Acerage 410 Acerage 411 Acerage 413 Acerage 413 Acerage 414 Acerage 414 Acerage 416 Auto Service 416 Machine Shop 417 Acerage 418 Familtad 420 Machine Shop 421 Machine Shop 421 Machine Shop 421 Machine Shop 423 Grain Elevator	No No No No No No No No Yes No No No No No No No	No	No No No No No No Yes Yes No Yes Yes No Yes No	No No No No No Yes Yes Yes Yes Yes Yes Yes No	No No No No No No No No No No No No No N	No Ye No Ne No Ne No No	No No 25 No 25 No 25 No 25 No 25 No 26 No 27 No 28 No 29 No 20 No	No	No No No No No No No No No No No No No			Mellage Truck & Tractor Stutheit Implement Stutheit Implement Abraham Seed	Chuck Comstock Jim Dedic Dennis Meyer Dick Moody Randy Perry Marv Biere Brian Mellage Benjamin Gerdes Nevin Miller Stanley Stutheit Stanley Stutheit Stanley Stutheit Stanley Stutheit	6384 7 32 RD 6386 7 32 RD 6387 3 732 RD 6387 3 732 RD 73191 HwY 75 73192 HWY 75 73192 HWY 75 73147 HWY 75 73147 HWY 75 73136 HWY 75 73136 HWY 75 73136 HWY 75
406 Acerage 407 Acerage 408 Acerage 409 Acerage 410 Acerage 411 Acerage 412 Acerage 412 Acerage 413 Acerage 414 Acerage 414 Acerage 415 Auto Service 416 Machine Shop 421 Auto Service 420 Machine Shop 422 Machine Shop 422 Grain Elevator 423 Grain Elevator 424 Other	No No No No No No No No Yes No No No No	No	No No No No No No No Yes Yes No Yes Yes Yes Yes	No No No No No Yes Yes No Yes Yes Yes Yes Yes	No No No No No No No No No No No No No N	No Ye No No	No No 25 No 25 No 25 No 25 No 25 No 26 No 27 No 28 No 29 No 29 No 29 No 29 No 29 No 29 No 20 No	No Yes No	No No No No No No No No No No Yes			Mellage Truck & Tractor Stutheit Implement Stutheit Implement Abraham Seed Horizons Christian Res Center	Chuck Comstock Jim Dedic Dennis Meyer Dick Moody Randy Perry Marv Biere Brian Mellage Benjamin Gerdes Benjamin Gerdes Stanley Stutheit Stanley Stutheit Stanley Stutheit John Abraham	6384 7 32 RD 6386 7 32 RD 6387 3 732 RD 6387 3 732 RD 73191 HWY 75 73182 HWY 75 73160 HWY 75 73147 HWY 75 73147 HWY 75 73136 HWY 75 73136 HWY 75
406 Acerage 407 Acerage 408 Acerage 409 Acerage 410 Acerage 411 Acerage 413 Acerage 413 Acerage 414 Acerage 414 Acerage 416 Auto Service 416 Machine Shop 417 Acerage 418 Familtad 420 Machine Shop 421 Machine Shop 421 Machine Shop 421 Machine Shop 423 Grain Elevator	No No No No No No No No No No No No No N	No	No No No No No No Yes Yes Yes Yes Yes No No No	No No No No No No Yes Yes Yes Yes Yes Yes No No No	No No No No No No No No No No No No No N	No Ye No Ne No Ne No Ye	No 25 No 25 No 25 No 25 No 25 No 26 No 27 No 28 No 29 No 20 No 20 No 21 No 22 No 23 No 24 No 25 No 26 No 27 No 28 No 29 No 20 No 28 No	No Yes No No	No No No No No No No No No No No No No N			Mellage Truck & Tractor Stutheit Implement Stutheit Implement Abraham Sea Res Center Horizons Christian Res Center	Chuck Comstock Jim Dedic Jim Dedic Dennis Meyer Dick Moody Randy Perry Marv Bere Brian Mellage Benjamin Gerdes Nevin Miller Stanley Stutheit Stanley Stutheit Stanley Stutheit Stanley Stutheit Banley Stutheit R. Brown	6384 7 32 RD 6386 7 32 RD 6387 3 732 RD 6387 3 732 RD 73191 HWY 75 73182 HWY 75 73180 HWY 75 73147 HWY 75 73136 HWY 75 73136 HWY 75 73136 HWY 75 73136 HWY 75 73136 HWY 75
406 Acerage 407 Acerage 408 Acerage 409 Acerage 410 Acerage 410 Acerage 411 Acerage 412 Acerage 413 Acerage 414 Acerage 414 Acerage 415 Auto Service 416 Machine Shop 427 Auchine Shop 420 Machine Shop 420 Grain Elevator 423 Grain Elevator 424 Acerage 425 Acerage 426 Acerage 427 Acerage	No No No No No No No Yes No No No No No No No No No No No No No	No	No No No No No No No No Yes Yes Yes Yes Yes No No No No	No No No No No No Yes Yes Yes Yes No No No No No	No No No No No No No No No No No No No N	No Ye No Ne No Ye No Ne No Ne No Ne No Ne No Ye	No 25 No 25 No 25 No 25 Yee 25 No 25 Yee 25 No 25 No 26 No 27 No 28 No 29 No 20 No 28 No 29 No 20 No 20 No 21 No 22 No 23 No 24 No 25 No 26 No 26 No 27 No 28 No 29 No 20 No <td>No No No</td> <td>No No N</td> <td></td> <td></td> <td>Mellage Truck & Tractor Stutheit Implement Stutheit Implement Stutheit Implement Abrahams Seed Horizons Christian Res Center</td> <td>Chuck Comstock Jim Dedic Dennis Meyer Dick Moody Randy Peny Marv Biere Brian Mellage Benjamin Gerdes Nevin Miller Stanley Stutheit Stanley Stutheit Stanley Stutheit Stanley Stutheit Stanley Stutheit Anhex Stutheit Stanley Stutheit Jihn Abraham R. Brown Jim Biere Roy Radloff</td> <td>6384 7 32 RD 6385 7 32 RD 6387 3 732 RD 6387 3 732 RD 73191 HWY 75 73182 HWY 75 73182 HWY 75 73147 HWY 75 73147 HWY 75 73146 HWY 75 73136 HWY 75 73136 HWY 75 73136 HWY 75 73136 HWY 75 73136 HWY 75 63905 732 RD 6391 732 RD</td>	No	No N			Mellage Truck & Tractor Stutheit Implement Stutheit Implement Stutheit Implement Abrahams Seed Horizons Christian Res Center	Chuck Comstock Jim Dedic Dennis Meyer Dick Moody Randy Peny Marv Biere Brian Mellage Benjamin Gerdes Nevin Miller Stanley Stutheit Stanley Stutheit Stanley Stutheit Stanley Stutheit Stanley Stutheit Anhex Stutheit Stanley Stutheit Jihn Abraham R. Brown Jim Biere Roy Radloff	6384 7 32 RD 6385 7 32 RD 6387 3 732 RD 6387 3 732 RD 73191 HWY 75 73182 HWY 75 73182 HWY 75 73147 HWY 75 73147 HWY 75 73146 HWY 75 73136 HWY 75 73136 HWY 75 73136 HWY 75 73136 HWY 75 73136 HWY 75 63905 732 RD 6391 732 RD
406 Acerage 407 Acerage 408 Acerage 409 Acerage 410 Acerage 411 Acerage 412 Acerage 413 Acerage 413 Acerage 414 Acerage 414 Acerage 415 Auto Service 416 Machine Shop 421 Auto Service 420 Machine Shop 421 Auto Service 423 Grain Elevator 423 Acerage 426 Acerage 426 Acerage 427 Acerage 427 Acerage 428 Acerage	No No No No No No No No No No No No No N	No	No No No No No No No No Yes Yes Yes Yes Yes No	No No No No No No Yes Yes Yes Yes Yes No No No No No No	No No No No No No No No No No No No No N	No. Ye No. Ne No. Ne No. Ye	No No 25 No No 26 No No 27 No No 28 No No 28 No No 28 No No 28 No No 29 No No	No	No N			Mellage Truck & Tractor Stutheit Implement Stutheit Implement Abrahams Seed Horizons Christian Res Center	Chuck Comstock Jim Dedic Dennis Meyer Dick Moody Randy Perry Marv Biere Brian Mellage Benjamin Gerdes Nevin Millee Stanley Stutheit Stanley Stutheit Stanley Stutheit John Abraham R. Brown Jim Biere Roy Radloff Vernon Goliday	6384 7 32 RD 6386 7 32 RD 6387 3 732 RD 6387 3 732 RD 73191 HWY 75 73192 HWY 75 73162 HWY 75 73147 HWY 75 73147 HWY 75 73136 HWY 75 73136 HWY 75 73136 HWY 75 73136 HWY 75 63905 732 RD 63911 732 RD 63919 732 RD 63921 732 RD
406 Acerage 407 Acerage 408 Acerage 409 Acerage 410 Acerage 410 Acerage 411 Acerage 412 Acerage 413 Acerage 414 Acerage 414 Acerage 415 Auto Service 416 Mochine Shop 421 Auto Service 420 Machine Shop 421 Auto Service 422 Machine Shop 423 Grain Elevator 424 Acerage 426 Acerage 428 Acerage 428 Acerage 428 Acerage	No No No No No No No No No No No No No N	No	No No No No No No No No No Yes Yes Yes Yes No	No No No No No No No Yes Yes Yes Yes Yes Yes No	No No No No No No No No No No No No No N	No Ye No Ne Yes No No Ye No Ne No Ye No Ne No Ye No No	No No 25 No 25 No 25 No 25 No 25 No 25 No 26 No 27 No 28 No 29 No 29 No 20 No 20 No 20 No 20 No 20 No 21 No 22 No 23 No 24 No 25 No 26 No 27 No 28 No 29 No	No	No N			Mellage Truck & Tractor Stutheit Implement Stutheit Implement Stutheit Implement Abrahams Seed Horizons Christian Res Center	Chuck Comstock Jim Dedic Dennis Meyer Dick Moody Randy Perry Marv Biere Brian Mellage Benjamin Gerdes Nevin Miller Stanley Stutheit Stanley Stutheit Stanley Stutheit Stanley Stutheit John Abraham R. Brown Jim Biere Roy Radioff Vermon Goliday Steve Rademacher	6384 7 32 RD 6385 7 32 RD 6387 3 732 RD 73191 HWY 75 73192 HWY 75 73192 HWY 75 73160 HWY 75 73164 HWY 75 73164 HWY 75 73136 HWY 75 63905 732 RD 63911 732 RD 63917 732 RD 63917 732 RD 6394 732 RD
406 Acerage 407 Acerage 408 Acerage 409 Acerage 410 Acerage 410 Acerage 412 Acerage 412 Acerage 413 Acerage 414 Acerage 414 Acerage 415 Auto Service 416 Machine Shop 417 Acerage 418 Famstead 420 Machine Shop 421 Auto Service 422 Machine Shop 423 Acerage 426 Acerage 426 Acerage 429 Acerage 429 Acerage 429 Acerage 429 Acerage	No No No No No No No No Yes No No No No No No No No No No No No No	No	No Yes Yes Yes Yes No	No Yes Yes Yes Yes No	No No No No No No No No No No No No No N	No Yé No Né No Né No Né No Yé	No No 255 No 255 No 265 No 255 No 265 No 256 No 265 No 256<	No	No			Meliage Truck & Tractor Stutheit Implement Stutheit Implement Abraham Seed Horizons Christian Res Center	Chuck Comstock Jim Dedic Dennis Meyer Dick Moody Randy Perry Marv Biere Brian Mellage Benjamin Gerdes Nevin Miller Stanley Stutheit Stanley Stutheit Stanley Stutheit Stanley Stutheit Stanley Stutheit John Abraham R. Brown Jim Biere Roy Radloff Vernon Goliday Steve Rademacher Patsy Bohling	6384 7 32 RD 6387 3 732 RD 6387 3 732 RD 6387 3 732 RD 73191 HwY 75 73182 HWY 75 73182 HWY 75 73164 HWY 75 73147 HWY 75 73147 HWY 75 73136 HWY 75 73136 HWY 75 73136 HWY 75 73136 HWY 75 63905 732 RD 63911 732 RD 63911 732 RD 63917 732 RD 63941 732 RD 63941 732 RD 63941 732 RD 63941 732 RD
406 Acerage 407 Acerage 408 Acerage 409 Acerage 410 Acerage 411 Acerage 412 Acerage 412 Acerage 413 Acerage 414 Acerage 414 Acerage 415 Auto Service 416 Machine Shop 417 Acerage 420 Machine Shop 421 Auto Service 422 Machine Shop 423 Grain Elevator 424 Auchine Shop 425 Acerage 426 Acerage 426 Acerage 426 Acerage 429 Acerage 429 Acerage 420 Acerage 420 Acerage 420 Acerage 420 Acerage 420 Acerage 420 Acerage 420 Acerage 420 Acerage 420 Acerage	No No No No No No No No No No No No No N	No	No No No No No No No No No Yes Yes Yes Yes No	No No No No No No No Yes Yes Yes Yes Yes Yes No	No	No YY No NY No YY YS <	No No 255 No 255 No 265 No 255 No 265 No 256 No 265 No 256<	No	No N			Mellage Truck & Tractor Stutheit Implement Stutheit Implement Stutheit Implement Abrahams Seed Horizons Christian Res Center	Chuck Comstock Jim Dedic Dennis Meyer Dick Moody Randy Peny Mary Biere Brian Mellage Benjamin Gerdes Nevin Miller Stanley Stutheit Stanley Stutheit Stanley Stutheit John Abraham R. Brown Jim Biere Rey Radloff Vernon Goliday Steve Rademacher Patsy Bohling Richard Algood	6384 7 32 RD 6385 7 32 RD 6387 3 732 RD 73191 HWY 75 73192 HWY 75 73192 HWY 75 73160 HWY 75 73164 HWY 75 73164 HWY 75 73136 HWY 75 63905 732 RD 63911 732 RD 63917 732 RD 63917 732 RD 6394 732 RD
406 Acerage 407 Acerage 408 Acerage 409 Acerage 410 Acerage 410 Acerage 412 Acerage 412 Acerage 413 Acerage 414 Acerage 414 Acerage 415 Auto Service 416 Machine Shop 417 Acerage 418 Famstead 420 Machine Shop 421 Auto Service 422 Machine Shop 423 Acerage 426 Acerage 426 Acerage 429 Acerage 429 Acerage 429 Acerage 429 Acerage	No No No No No No No No No No No No No N	No	No Yes Yes Yes No	No No No No No No No No Yes Yes Yes Yes No	No	No Yé No Né No Né No Yé	No No 255 No 256 No 257 No 258 No	No	No			Meliage Truck & Tractor Stutheit Implement Stutheit Implement Abraham Seed Horizons Christian Res Center	Chuck Comstock Jim Dedic Dennis Meyer Dick Moody Randy Perry Marv Bere Brian Mellage Benjamin Gerdes Nevin Miller Stanley Stutheit Stanley Stutheit Stanley Stutheit Stanley Stutheit Stanley Stutheit John Abraham R. Brown Jim Biere Roy Radioff Vernon Goliday Steve Rademacher Patsy Bohling Richard Allgood Adam Wenz	6384 7 32 RD 6385 7 32 RD 6387 3 732 RD 73191 HWY 75 73192 HWY 75 73192 HWY 75 73160 HWY 75 73145 HWY 75 73145 HWY 75 73136 HWY 75 73136 HWY 75 73136 HWY 75 73136 HWY 75 73136 HWY 75 73137 HWY 75 73137 HWY 75 73137 HWY 75 63905 732 RD 63917 732 RD 63919 732 RD 63917 732 RD 6394 732 RD 6394 732 RD 6394 732 RD
406 Acerage 407 Acerage 408 Acerage 409 Acerage 410 Acerage 411 Acerage 412 Acerage 413 Acerage 414 Acerage 415 Acerage 416 Acerage 417 Acerage 418 Acerage 419 Acerage 414 Acerage 416 Acerage 417 Acerage 418 Auth Service 420 Machine Shop 421 Auto Service 422 Machine Shop 423 Acerage 426 Acerage 427 Acerage 428 Acerage 429 Acerage 430 Acerage 431 Farmstead 432 Acerage 433 Farmstead 433 Farmstead	No No No No No No No No No No No No No N	No	No Yes Yes Yes Yes No	No No No No No No No No No Yes Yes Yes Yes No Yes Yes	No	No YY	No No 250 Yet 250 Yet 250 Yet	No No	No			Mellage Truck & Tractor Stutheit Implement Stutheit Implement Abraham Seed Horizons Christian Res Center	Chuck Comstock Jim Dedic Dennis Meyer Dick Moody Randy Perry Marv Bere Brian Mellage Benjamin Gerdes Nevin Miller Stanley Stutheit Stanley Stutheit Stanley Stutheit Stanley Stutheit Miller R. Brown Jim Biere Roy Radloff Vernon Goliday Steve Rademacher Patsy Bohing Richard Aligood Adam Wenz Lason Amknecht Richard Steves	6384 7 32 RD 6386 7 32 RD 6387 3 732 RD 6387 3 732 RD 73191 HwY 75 73182 HwY 75 73182 HwY 75 73184 HwY 75 73147 HwY 75 73145 HwY 75 73136 HwY 75 73136 HwY 75 73136 HwY 75 73136 HwY 75 73136 HwY 75 63905 732 RD 6391 732 RD 6391 732 RD 6391 732 RD 6391 732 RD 6394 733 RD 6395 733 RD
406 Acerage 407 Acerage 408 Acerage 409 Acerage 409 Acerage 410 Acerage 411 Acerage 412 Acerage 413 Acerage 413 Acerage 414 Acerage 415 Auto Service 416 Machine Shop 421 Auto Service 422 Machine Shop 423 Grain Elevator 424 Auchine Shop 425 Acerage 426 Acerage 427 Acerage 428 Acerage 429 Acerage 430 Acerage 431 Farmstead 432 Acerage 430 Acerage 431 Farmstead 432 Acerage 433 Acerage 434 Farmstead 434 Farmstead 434 Farmstead 434 Farmstead 434 Farmstead	No No No No No No No No Yes No No No No No No No No No No No No No	No	No	No No No No No No No No No Yes Yes Yes Yes Yes No	No	No YY No NY No NY No YY No <	No No SS <	No No	No			Mellage Truck & Tractor Stutheit Implement Stutheit Implement Stutheit Implement Abrahams Seed Horizons Christian Res Center	Chuck Comstock Jim Dedic Jim Dedic Dennis Meyer Dick Moody Randy Perry Mary Bere Brian Mellage Benjamin Gerdes Benjamin Gerdes Neviri Miller Stanley Stutheit Stanley Stutheit John Abraham R. Brown Jim Biere Roy Radloff Vernon Golday Steve Rademacher Patsy Bohling Richard Algood Adam Wenzl Jason Amknecht Richard Stivers Bruce Kirkendall	6384 7 32 RD 6386 7 32 RD 6387 3 732 RD 73191 HWY 75 73182 HWY 75 73182 HWY 75 73160 HWY 75 73147 HWY 75 73147 HWY 75 73158 HWY 75 73158 HWY 75 73158 HWY 75 73158 HWY 75 73158 HWY 75 73158 HWY 75 63905 732 RD 63905 732 RD 63919 732 RD 63921 733 RD
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	SiteType	ACTual	BGFuel Auto	2ham 0	aluanta	FeatCher	ChamCtar	Cantia	DWall	Cominant	C	SiteDesc	MatDesc FacilityName	Owner	Address
	Pivot		No No	N		No	No		Yes		No	SileDesc		Owner	Autress
			No No	N		No			Yes		No				
			No No	N		No No			Yes		No				
			No No No No	N		NO NO	No No	No No	Yes Yes		No No				
455			No No	N		No					No				
458			No No	N		No	No				No				
			No No	N		No	No	No	Yes		No				
			No No			No			Yes		No			LeRoy Able	72751 727A RD
468			No No	N		No					No		Abandoned well Exact location unknow	Scott Linn	1/4 east of 72751 727A RD
			No No No No	N		No No	No No				No No		Lagoon	Kyle Brinkerhoff Curtis Aue	64161 726 RD 64139 723 RD
			No No			No					No			Justin Davison	72232 641 AVE
			No No	N		No	No				No	Inactive well		Steve Boden	64047 723 RD
			No Yes			No	No				No			Steve Boden	64047 723 RD
475			No No	N		No	No		Yes		No			Steve Boden	64039 723 RD
			No No	N		No	No No		Yes		No No			Timothy Mueller	64146 723 RD
			No No No No			No No	No		Yes Yes		No		1 Inactive well	Dennis Bantz Dale Nelson	63971 723 RD 63984 723 RD
			No No	N		No	No				No			John Gimenez	72371 639A AVE
			No No	N		No	No			No	No			John Taylor	72391 639A AVE
			No No	N		No	No				No			Bedford Cemetery	724 & 723 RD
			No No	N		No	No				No				
			No No	N		No	No				No			Dale Michel	63263 HWY 136
	Livestock Operation Farmstead		No No No No	N		No No	No No				No No		633 AVE 633 AVE	Duane Palmer Duane Palmer	PO Box 284 PO Box 284
			No No			No	No		Yes		No			Lyle Haneline	63231 730 RD
			No No			No	No		Yes		No			Steven Lunzmann	73018 632 AVE
488	Livestock Operation	Yes	No No	N	lo l	No	No	No	No	No	No			Steven Lunzmann	73018 632 AVE
			No No			No	No				No			John Westhart	73090 632 AVE
	Livestock Operation		No No	N		No					No			John Westhart	73090 632 AVE
			No No No No	N		No No	No No	Yes Yes			No No			Ryan Lunzmann Raymond Woerlen	63283 731 RD 63319 731 RD
			No No			No	No	Yes			No			James Badgett	73069 634 AVE
			No No			No	No	Yes			No			Evelyn Jensen	13012 Briar RD
495	Farmstead	No	No No	Y	es I	No	No	Yes	No	No	No			Mark Bergmeier	63466 731 RD
			No No			No	No	Yes	Yes		No			Daniel Gerdes	PO Box 262 Johnson
	Acerage Livestock Operation		No No	N		No					No			Mark Baltensperger	63523 732 RD
			No No No No	N		No No	No No				No No			Mark Baltensperger	63523 732 RD
			No No	N		No	No	Yes			No				
			No No			No	No	Yes		No	No				
502	Acerage	No	No No	N	lo l	No	No	Yes	No	No	No				
			No No	N		No	No				No				
			No No	N		No	No				No	01		Robert Teten	73430 637 AVE
	Livestock Operation Farmstead		No No No No	N		No No	No No				No No	2 large hot units		Barbara Stukenholtz Barbara Stukenholtz	73339 638 AVE 73339 638 AVE
			No No			No	No				No			Gerald Ruskamp	73365 HWY 75
			No No	N		No					No				
510	Livestock Operation		No No	N		No					No			Hears United for Animals	73420 638 AVE
			No No	N		No	No		Yes		No				
			No No			No	No		Yes		No				
			No No No No	N		No No	No No				No No				
			No No			No	No		Yes		No				
517	Livestock Operation	No	No No	N	lo li	No	No	No	No	No	No				
			No No			No	No				No				
			No No	N		No	No		Yes		No				
	Farmstead Livestock Operation		No No No No	N		No No	No No		Yes No		No No				
			No No			No	No				No			Roger Gerdes	63996 HWY 67
523	Farmstead		No No			No	No				No			Mark Moody	64029 HWY 67
524	Farmstead	No	No No	Y	es I	No	No	Yes	Yes	No	No			Rodney Groff	64067 733A RDccccc
			No No			No	No				No			Jeff Vonbergen	73348 641 AVE
			No No			No No	No No				No No			Daryl Long Christopher Ryan	64070 HWY 67 64287 732 RD
			No No No No			NO NO	No	Yes Yes			NO NO			Christopher Ryan Jerry Pasco	73139 643A AVE
			No No			No	No				No			Martin Fattig	73091 643A AVE
530	Acerage	No	No No	N	lo l	No	No	Yes	Yes	No	No			William Fulton	73098 643A AVE
531	Acerage		No No	N		No	No				No			Kenneth Rogge	72963 644 AVE
E22			No No	N		No	No	Yes			No			James Gerdes	73064 642 AVE
			No No No No			No No	No No				No No			Richard Snyder Thomas Heidzig	64191 731RD 63308 728 RD
533		No		N		No						Large feedlot		Linda Oestmann	63414 727 RD
533 537	Farmstead		No No			No	No			(nerene nere nere nere nere pe	No			Linda Oestmann	63414 727 RD
533 537 538	Farmstead Livestock Operation	No	No No No No	Y			No					Church		St. Paul's Luthern	72796 634 AVE
533 537 538 539 540	Farmstead Livestock Operation Farmstead Other	No No No	No No No No	Y N		No	140	Yes	INO	INU					
533 537 538 539 540 541	Farmstead Livestock Operation Farmstead Other Farmstead	No No No	No No No No No No	N Y	lo 1 es 1	No	No	Yes	Yes	No	No				
533 537 538 539 540 541 541	Farmstead Livestock Operation Farmstead Other Farmstead Livestock Operation	No No No No	No No No No No No No No	N Y N	lo 1 es 1 lo 1	No No	No No	Yes No	Yes No	No No	No				
533 537 538 539 540 541 542 542 543	Farmstead Livestock Operation Farmstead Other Farmstead Livestock Operation Farmstead	No No No No No	No No No No No No No No No No No No	N Y N Y	lo I les I lo I les I	No No No	No No No	Yes No Yes	Yes No No	No No No	No No			Dennis Grable Roger Alexander	63445 727 RD
533 537 538 539 540 541 542 542 543 544	Farmstead Livestock Operation Farmstead Other Farmstead Livestock Operation Farmstead Acerage	No No No No No No	No No	N Y N Y	lo I les I lo I les I lo I	No No No No	No No No No	Yes No Yes Yes	Yes No No No	No No No No No	No No No			Roger Alexander	63445 727 RD 63471 727 RD
533 537 538 539 540 541 542 543 544 543 544	Farmstead Livestock Operation Farmstead Other Farmstead Livestock Operation Farmstead Acerage	No No No No No No No No	No No No No No No No No No No No No	N Y N Y	lo I les I lo I lo I lo I les I	No No No	No No No No No	Yes No Yes Yes Yes	Yes No No No No	No N	No No No No	Small lots		Roger Alexander Dennis Norvell Dennis Norvell	63445 727 RD
533 537 538 539 540 541 542 543 544 545 545 546 547	Farmstead Livestock Operation Farmstead Other Farmstead Livestock Operation Farmstead Acerage Farmstead Livestock Operation Farmstead	No No No No No No No No No	No No	N Yi N Yi N Yi N	lo I es I es I lo I es I es I	No No No No No	No No No No No	Yes No Yes Yes Yes No	Yes No No No No	No N	No No No No	Small lots		Roger Alexander Dennis Norvell	63445 727 RD 63471 727 RD 72652 634 AVE 72652 634 AVE 72568 634 AVE
533 537 538 539 540 541 542 543 544 545 544 545 546 547 548	Farmstead Livestock Operation Farmstead Other Farmstead Livestock Operation Farmstead Livestock Operation Farmstead Farmstead Farmstead Farmstead	No No No No No No No Yes No	No No	N Yi N Yi N Yi N Yi Yi	lo es lo es lo es es es	No No No No No No No	No No No No Yes No	Yes No Yes Yes Yes No Yes Yes	Yes No No No No Yes No	No N	No No No No No No	Small lots		Roger Alexander Dennis Norvell Dennis Norvell Mooarkegin Farms Gene Remmers	63445 727 RD 63471 727 RD 72652 634 AVE 72652 634 AVE 72658 634 AVE 63432 725 RD
533 537 538 539 540 541 542 543 544 545 5546 546 547 548 549	Farmstead Livestock Operation Farmstead Other Farmstead Livestock Operation Farmstead Acerage Farmstead Livestock Operation Farmstead Farmstead Farmstead	No No No No No No Yes No No	No No	N Y N Y N Y N Y Y Y	Io I	No No No No No No No No	No No No No No Yes No No	Yes No Yes Yes No Yes Yes Yes	Yes No No No No Yes No No	No N	No No No No No No No	Small lots		Roger Alexander Dennis Norvell Dennis Norvell Mooarkegin Farms Gene Remmers Dustin Eggers	63445 727 RD 6347 727 RD 72652 634 AVE 72652 634 AVE 72686 634 AVE 63432 725 RD 72536 635 AVE
533 537 538 539 540 541 542 543 544 545 546 546 546 547 548 549 550	Farmstead Livestock Operation Farmstead Other Farmstead Livestock Operation Farmstead Acerage Farmstead Livestock Operation Farmstead Farmstead Farmstead Farmstead Farmstead	No No No No No No No Yes No No No	No No	N Y N Y N Y N Y N Y Y Y	lo es es lo es lo es es es lo es es lo	No No No No No No No No No No No	No No No No No Yes No No No	Yes No Yes Yes Yes Yes Yes Yes Yes	Yes No No No No Yes No No No No	No N	No No No No No No No No	Small lots		Roger Alexander Dennis Norvell Dennis Norvell Mooarkegin Farms Gene Remmers Dustin Eggers Daniel Shaffer	63445 727 RD 63471 727 RD 72652 634 AVE 72652 634 AVE 72656 634 AVE 63432 725 RD 63432 725 RD 72536 635 AVE 72538 635 AVE
533 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551	Farmstead Livestock Operation Farmstead Other Farmstead Livestock Operation Farmstead Acorage Farmstead Livestock Operation Farmstead Farmstead Farmstead Farmstead Farmstead	No No No No No No No No No No No No No	No No	N Yi N Yi N Yi Yi Yi Yi Yi	Io I es I lo I es I lo I es I lo I es I lo I es I	No No No No No No No No No No No No	No No No No No Yes No No No No	Yes No Yes Yes No Yes Yes Yes Yes Yes Yes	Yes No No No No Yes No No Yes	No N	No No No No No No No No No	Small lots		Roger Alexander Dennis Norvell Mooarkegin Farms Gene Remmers Dustin Eggers Daniel Shaffer Glen Dunkleman	63445 727 RD 63471 727 RD 72652 634 AVE 72652 634 AVE 72686 634 AVE 72586 634 AVE 72586 635 AVE 72538 635 AVE 72538 635 AVE 72538 635 AVE 72591 635 AVE
533 537 538 539 540 541 542 543 544 545 546 546 546 546 547 548 549 550 551	Farmstead Livestock Operation Farmstead Other Farmstead Livestock Operation Farmstead Acerage Farmstead Farmstead Farmstead Farmstead Farmstead Farmstead Farmstead Farmstead Farmstead Farmstead	No No No No No No No No No No No No No Yes	No No	N Y N Y N Y Y Y Y Y Y Y Y Y	Image: Constraint of the second sec	No No No No No No No No No No No	No No No No No Yes No No No No No	Yes No Yes Yes No Yes Yes Yes Yes Yes Yes Yes	Yes No No No Yes No No Yes No Yes	No INO	No No No No No No No No No No	Small lots		Roger Alexander Dennis Norvell Dennis Norvell Mooarkegin Farms Gene Remmers Dustin Eggers Daniel Shaffer Glen Dunkleman Robert Mayer	63445 727 RD 63471 727 RD 72652 634 AVE 72652 634 AVE 72656 634 AVE 63432 725 RD 72536 635 AVE 72536 635 AVE 72536 635 AVE 72530 635 AVE 63718 724 RD
533 537 538 539 540 541 542 543 544 545 545 546 545 546 547 548 550 551 552 553	Famstead Livestock Operation Famstead Other Famstead Livestock Operation Famstead Acerage Famstead Famstead Famstead Famstead Famstead Famstead Famstead Famstead Famstead Famstead Famstead Famstead	No No No No No No No Yes No No No Yes Yes	No No	N Y N Y N Y Y Y Y Y Y Y Y Y	Image:	No No No No No No No No No No No No	No No No No No Yes No No No No No No	Yes No Yes Yes No Yes Yes Yes Yes Yes Yes	Yes No No No Yes No No Yes No No No	No N	No No No No No No No No No	Small lots		Roger Alexander Dennis Norvell Mooarkegin Farms Gene Remmers Dustin Eggers Daniel Shaffer Glen Dunkleman	63445 727 RD 63471 727 RD 72652 634 AVE 72652 634 AVE 72686 634 AVE 72586 634 AVE 72586 635 AVE 72538 635 AVE 72538 635 AVE 72538 635 AVE 72538 635 AVE
533 537 538 539 540 541 542 543 544 545 544 545 546 547 554 551 552 553 554 555	Famstead Livestock Operation Famstead Other Famstead Famstead Acerage Famstead Livestock Operation Famstead	No No No No No No No No No No No No Yes Yes No No No	No No	N Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	Image: organization of the set o	No No No No No No No No No No No No No	No No No No No Yes No No No No No No No No No No	Yes No Yes Yes No Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes	Yes No No No Yes No Yes No No No No No	No N	No No No No No No No No No No No No	Small lots		Roger Alexander Dennis Norvell Dennis Norvell Mocarkegin Farms Gene Remmers Dustin Eggers Daniel Shaffer Glen Dunkleman Robert Mayer Thomas Jones Rose Bowman Steven Schmidt	63445 727 RD 63471 727 RD 72652 634 AVE 72652 634 AVE 72652 634 AVE 72652 634 AVE 72636 634 AVE 63432 725 RD 72536 635 AVE 72538 635 AVE 72538 635 AVE 63718 724 RD 63756 724 RD 72406 538 AVE 72246 538 AVE
533 537 538 540 541 542 543 544 545 545 545 546 546 547 550 550 551 552 553 555	Farmstead Livestock Operation Farmstead Farmstead Farmstead Acerage Farmstead Livestock Operation Farmstead Farmstead Acerage Farmstead Acerage Farmstead Acerage Farmstead Farmstead Farmstead Farmstead Farmstead Farmstead Farmstead Farmstead Farmstead	No No No No No No No Yes No No Yes Yes Yes No No No No	No No No No	N Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	Image: organization of the section of the s	No No No No No No No No No No No No No	No No No No No Yes No No No No No No No No No No	Yes No Yes Yes No Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes	Yes No No No No Yes No No No No No No No	No No No No No Yes No	No No No No No No No No No No No No No N	Small lots		Roger Alexander Dennis Norvell Dennis Norvell Mocarkegin Farms Gene Remmers Dustin Eggers Daniel Shaffer Glen Dunkleman Robert Mayer Thomas Jones Rose Bowman Steven Schmidt Randy Siktja	63445 727 RD 63471 727 RD 72652 634 AVE 72652 634 AVE 72656 634 AVE 72586 635 AVE 72586 635 AVE 72536 635 AVE 72536 635 AVE 72536 635 AVE 72516 635 AVE 63716 724 RD 63766 724 RD 72405 638 AVE 72405 638 AVE 72426 638 AVE
533 537 538 539 540 541 541 544 545 544 545 547 547 548 547 548 549 550 551 552 553 554 555 555	Famstead Livestock Operation Famstead Oher Famstead Livestock Operation Famstead Acerage Famstead Livestock Operation Famstead Acerage Famstead	No No No No No No No Yes No No Yes Yes No No No No No No No	No No No No	N Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	Image: log set of the	No No No No No No No No No No No No No N	No No	Yes No Yes Yes No Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes	Yes No No No Yes No No No No No No No No No	No No	No No No No No No No No No No No No No N			Roger Alexander Dennis Norvell Dennis Norvell Mocarkegin Farms Gene Remmers Dustin Eggers Daniel Shaffer Glen Dunkleman Robert Mayer Thomas Jones Rose Bowman Steven Schmidt Randy Sikyta Steven Schmidt	63445 727 RD 63471 727 RD 72652 634 AVE 72652 634 AVE 72652 634 AVE 72658 634 AVE 72636 635 AVE 72536 635 AVE 72536 635 AVE 72536 635 AVE 72531 635 AVE 63718 724 RD 63756 724 RD 72405 638 AVE 72248 638 AVE 72296 538 AVE 72296 538 AVE
533 537 538 539 540 541 542 543 544 544 545 546 546 546 547 548 559 550 551 552 555 555 556 557 558	Famstead Livestock Operation Famstead Urestock Operation Farmstead Acerage Farmstead Harmstead Farmstead	No No No No No No No No No No No No No N	No No No No	N Y N Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	Image: log set of the	No No No No No No No No No No No No No N	No No No No No No No No No No No No No N	Yes No Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes	Yes No No No No Yes No No No No No No No No	No I No I No I No I Yes I No I	No No No No No No No No No No No No No N	Small lots		Roger Alexander Dennis Norvell Dennis Norvell Mooarkegin Farms Gene Remmers Dustin Eggers Daniel Shaffer Glen Dunkleman Robert Mayer Thomas Jones Rose Bowman Steven Schmidt Randy Sikyta Steven Schmidt Steven Schmidt	63445 727 RD 6347 727 RD 72652 634 AVE 72652 634 AVE 72586 634 AVE 72586 635 AVE 72536 635 AVE 72540 635 AVE 72546 638 AVE 72405 638 AVE 72426 638 AVE 72436 638 AVE 72436 638 AVE 72456 638 AVE 7246 638 AVE
533 537 538 539 540 541 543 543 543 544 545 546 546 546 546 556 556 557 557 558 556	Famstead Livestock Operation Farmstead Other Farmstead Farmstead Acerage Farmstead Farmstead Farmstead Acerage Farmstead Farmstead Acerage Farmstead Acerage Farmstead	No No No No No No No No No Yes Yes No No Yes Yes No No No No No No No	No No No No	N Y N Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	o I es I o I o I o I o I es I o I es I	No No No No No No No No No No No No No N	No No	Yes No Yes Yes No Yes Yes Yes Yes Yes Yes Yes Yes Yes No Yes	Yes No No No No Yes No No No No No No No No	No	No No No No No No No No No No No No No N			Roger Alexander Dennis Norvell Dennis Norvell Mocarkegin Farms Gene Remmers Dustin Eggers Daniel Shaffer Glen Dunkleman Robert Mayer Thomas Jones Rose Bowman Steven Schmidt Randy Sikyta Steven Schmidt	63445 727 RD 63471 727 RD 72652 634 AVE 72652 634 AVE 72652 634 AVE 72658 634 AVE 72636 635 AVE 72536 635 AVE 72536 635 AVE 72536 635 AVE 72531 635 AVE 63718 724 RD 63756 724 RD 72405 638 AVE 72248 638 AVE 72296 538 AVE 72296 538 AVE

OBJECTID	SiteType	AGFu	el BGFu	el AutoChen	n Solvents	FertStor	ChemSto	r Septi	c PWe	I GFumigant	SFumigant	SiteDesc	MatDesc	FacilityName	Owner	Address
563	Livestock Operation	No	No	No	No	No	No	No	No	No	No	Small lot			Anthony Janssen	64355 728 RD
564	Acerage	No	No	No	No	No	No	Yes	No	No	No				James Kite	64244 726 RD
565	Livestock Operation	No	No	No	No	No	No	No	No	No	No	Medium sized lot			Elelyn Kite	64227 726 RD
566	Acerage	No	No	No	No	No	No	Yes	No	No	No				Nadene Bergmann	72545 642A AVE
567	Farmstead	No	No	No	Yes	No	No	Yes	Yes	No	No				Heidzig Fam Tst	72463 642A AVE
568	Livestock Operation	No	No	No	No	No	No	No	No	No	No	Small lot			Heidzig Fam Tst	72463 642A AVE
570	Acerage	No	No	No	No	No	No	Yes	No	No	No				James Findlay	64335 719 RD Stella
571	Acerage	No	No	No	No	No	No	Yes	No	No	No				Matthew Wroblewski	641196 724 RD
572	Farmstead	No	No	No	Yes	No	No	Yes	Yes	No	No				Francis Seid	PO Box 96 Falls City
573	Farmstead	No	No	No	Yes	No	No	Yes	No	No	No				Eldon Wellman	64120 724 RD
574	Farmstead	No	No	No	Yes	No	No	Yes	No	No	No				Raynell Able	72355 642A AVE
575	Livestock Operation	No	No	No	No	No	No	No	No	No	No	Small lot			Raynell Able	72355 642A AVE
576	Farmstead	No	No	No	Yes	No	No	Yes	Yes	No	No				Raynell Able	24-4-14
577	Acerage	No	No	No	No	No	No	Yes	Yes	No	No				Dale Bohling	72268 638 AVEW
578	Acerage	No	No	No	No	No	No	Yes	No	No	No				Brett Adams	64175 733 RD

Appendix D: Emergency Plan

EMERGENCY PLAN

CITY OF AUBURN PUBLIC WATER SYSTEM

APPROVED BY BOARD OF PUBLIC WORKS OCTOBER 13, 2003

(Updated March 21, 2006) (Updated 5/23/2007-contact personnel) (Updated February 13, 2009) (Updated January 27, 2010) (Updated January 20, 2012) (Updated January 15,2014) (Reviewed and updated January 15,2015) (Additions made March 25, 2015)

> Copies of Plan Located at: General Manager's Office Water/Wastewater Manager's Office Purchasing Agent/Dispatcher's Office Power Plant Control Room Vehicle Units #2, 22 & 31 City Hall Local NEMA/FEMA Office State of Nebraska – HHS Headquarters

CITY OF AUBURN EMERGENCY PLAN (NEMAHA COUNTY) CHAIN OF COMMAND/NECESSARY PERSONNEL

1)	Tom Gulizia. BPW Board Chairman		Home:	(402) 274-3827
2)	David A. Hunter Jr., BPW General Manager		Office: Home: Cell:	(402) 274-4981 (402) 274-3575 (402) 274-7436
3)	Kenneth A. Swanson, BPW Water/ Wastewater Manager (Designated Operator in Cha	rge)	Office: Home: Cell:	(402) 274-4981 (402) 868-6675 (402) 274-7437
4)	Scott Kudrna, Mayor - City of Auburn		Work: City Hall: Home:	(402) 274-4333 (402) 274-3420 (402) 274-3981
5)	Sherry Heskett, Auburn City Clerk		Office: Home:	(402) 274-3420 (402) 824-6575
6)	Renee Critser - Nemaha County Civil Defense Director		Office: Cell: Home:	(402) 274-2552 (402) 274-7652 (402) 414-1422
7)	Police Department	911	Office:	(402) 274-4977
8)	Brent Lottman, Nemaha County Sheriff	911	Office:	(402) 274-3139
9)	Randy Bennett, Auburn Fire Chief	911	Work: Cell:	(402) 274-5033 (402) 274-1577
10)	NeRWA – Main Office, Wahoo NE		Office:	(402) 443-5216
11)	Russ Topp, NeRWA		Home: Cell:	(402) 788-2732 (402) 480-4196
12)	Randy Hellbusch, NeRWA		Home: Cell:	(402) 947-9791 (402) 443-8535
13)	Barney Whatley, NeRWA		Home: Cell:	(402) 727-1418 (402) 480-2982
14)	HHS Emergency (24-Hour)		Work:	(402) 499-6922
15)	Fred Baumert, HHS Field Services Representative		Office: Cell:	(402) 471-0519 (402) 440-4917
16)	Andy Kahle, HHS Program Manager- Field Services		Office:	(402) 471-0521
17)	Howard Isaacs, HHS Program Manager- Monitoring & Compliance		Office:	(402) 471-0930
18)	VACANT- HHS Administrator, Environmental Health Services		Office:	(402) 471-0510
19)	JEO Consulting Group, City of Auburn Engineer Nebraska City NE		Office:	(402) 873-6766
20)	HDR, BPW Consulting Engineers Lincoln NE		Office:	(402) 742-2906

21)	NeWARN Local Members		newarn.org
	Nebraska City – LeRoy Frauna Wilbur – Jerry Petracek Tecumseh – Doug Goracke	Office Office Office	(402) 873-3353 (402) 821-3233 (402) 335-2102
22)	Gary Ensz, M.D., City of Auburn Physician	Office: Home:	(402) 274-4993 (402) 274-3641
23)	Kevin Cluskey, SE District Health Dept.	Office:	(402) 274-3993
24)	Gage County Red Cross Chapter	Office: Pager:	(402) 223-4211 (402) 230-9748
25)	Board of Public Works - Electric Utility	Office: Night:	(402) 274-4981 (402) 274-3316
26)	Black Hills Energy - Gas Utility:	Office: 24 hr.:	(888) 890-5554 (888) 694-8989
27)	Kevin Reiman, School Superintendent (Calvert Elementary, Auburn Middle School, Auburn Senior High)	Office: Home: Cell:	(402) 274-4830 (402) 274-5331 (402) 274-8845
28)	NE League of Municipalities, Utilities Section	Office:	(402) 476-2829
29)	Harold Reynolds - Midwest Assistance Program Waynel NE	Phone:	(402) 833-5036
30)	Layne Christensen - Well Driller, Valley NE Brad Harris	Office: Home: Cell:	(402) 359-2042 (402) 453-3414 (402) 980-627
31)	Sargent Drilling – Well Driller, Geneva NE, Doug Yantze, Municipal Manager	Office: Cell:	(402) 759-3902 (402) 759-2929
32)	Bob Hutton, Nemaha County Board Chairperson	Work: Home: Cell:	(402) 274-4285 (402) 824-6725 (402) 274-7513
33)	Ron Behrends – BPW Backup Operator	Office: Home: Cell:	(402) 274-4981 (402) 274-3449 (402) 274-8808
34)	Robert Wintz – BPW Backup Operator	Office: Cell:	(402) 274-8808 (402) 274-4981 (402) 274-7069
35)	Jeremy Griepenstroh – BPW Backup Operator	Office: Cell:	(402) 274-4981 (402) 874-0070
36)	Jay Theye – BPW Backup Operator	Office: Cell:	(402) 274-4981 (402) 230-0235

LOSS OF ELECTRIC POWER

1. Notify Electric Department. Hook up emergency generation where needed.

WELLS INOPERATIVE

- 1. Notify BPW General Manager and designated operator in charge.
- 2. Notify public (water conservation notice).
- 3. Monitor situation continuously.
- 4. Evaluate problem and try to isolate. If possible, do so, then operate useable wells as needed. Make repairs where needed.
- 5. If water pressure drops below 20 psi in more than 10% of the system contact HHS Field Services Representative.
- 6. Perform required coliform sampling in affected zones.

WELLS CONTAMINATED

- 1. Notify BPW General Manager and designated operator in charge.
- 2. Notify public of the contamination and the procedures that need to be followed for their protection.
- 3. Notify HHS Field Services Representative.
- 4. Notify Nebraska Rural Water Association (NeRWA).
- 5. Try and isolate the problem by closing appropriate valves.
- 6. Take water samples to ensure water is safe for consumption.
- 7. Take corrective action to fix the problem.
- 8. Supply bottled water if necessary.

WELLS - RIVER CROSSING LOST

- 1. Notify BPW General Manager and designated operator in charge.
- 2. Isolate line by closing valve on west side of Little Nemaha River.
- 3. Operate Well #13 and North Well field until temporary line can be installed or repairs made.
- 4. If high usage event occurs, restrict water usage.

LOSS OF TREATMENT

- 1. Notify BPW General Manager and designated operator in charge.
- 2. Disconnect affected portion of treatment plant. If entire treatment plant is lost at 603 9th St, run a line from pigging station directly to the clear wells for supply at 818 G St. (old filter plant site) If booster pumps at the 603 9th St filter plant are inoperable, use the two standby booster pumps at 818 G St to pump to the reservoir. Emergency chlorination equipment will need to be hooked up. Closely monitor residuals.
- 3. Maximize remaining treatment facilities.
- 4. Restrict water usage as needed.
- 5. Keep public informed of situation.
- 6. Return to normal use when repairs are made and affected portions have been properly disinfected and appropriate sampling has completed.

7. Contact NHHS field representative and keep him informed

BREECH OF SECURITY

- 1. Contact Local Law Enforcement.
- 2. Contact HHS Field Services Representative.
- 3. Notify FBI (Local Law Enforcement to make call).
- 4. Notify system owner (BPW General Manager, BPW Board Chairman, etc.)
- 5. Contact Nebraska Rural Water Association (NeRWA) for assistance.
- In the event additional qualified personnel and/or material are needed, contact NeWARN. Local Members are Nebraska City (402-873-3353), Tecumseh (402) 990-6930 and Wilbur (402-821-3233) – entire member list found on <u>www.newarn.org</u>.
- 7. Isolate affected system component if necessary (use alternate well, isolate reservoir, etc.).
- 8. Determine if system has been tampered with (sanitary seal still intact, vent screens still in place, anything broken or disturbed, etc.).
- 9. Follow State of Nebraska's instructions or recommendations.
- 10. Notify public if necessary.
- 11. Secure alternate drinking water source if necessary.
- 12. Sample as instructed by State of Nebraska.
- 13. Notify local health officials.

LOSS OF MAIN RESERVOIR OR 16" MAIN

- 1. Notify BPW General Manager and designated operator in charge.
- 2. Notify HHS Field Services Representative.
- 3. Contact Nebraska Rural Water Association (NeRWA).
- 4. Isolate main Reservoir: (Type of isolation depends on situation.)
 - A. The booster pumps at the filter plant have vfd's that can be set to maintain the desired pressure.
 - B. To stop water flow between the Main Reservoir and the North Pressure Zone, close the 16" valve in N-S line on 25th Street, between T & U Streets (behind 2003 24th Street).
 - C. To stop water flow from the Main Reservoir into the South Pressure Zone, close the 12" valve in the E-W line on 25th Street between T & U Streets (behind 2003 24th Street) **OR** close the 16" valve at the alley on 23rd street between T & U Streets **OR** close the 16" valve on 21st Street between T & U Streets. There are no customers connected to the 16" line between the Main Reservoir and 21st Street. (See system map. These valves are labeled for this purpose.)
 - D. To stop all water flow in and out of the Main Reservoir, close the two 18" butterfly valves #1 & #2 in the basement and open the 16" bypass valve #3 all in the Main Reservoir basement see operating diagram on page 11.
 - E. Install pressure regulating valve at fire hydrant on 24th Street and U Street. Set regulator to discharge at 25 psi.
 - F. To combine the north and south pressure systems as one, open the valves at: #1 – 14th & J Street (south side), 14th & N Street (south side). If needed valves at 14th & F Street (south side), 12th & O Street (south side) and 12th & P Street (south side) could be opened later after completing the other steps,

but may not need to be opened. (See system Map. These valves are labeled for this purpose)

- G. At the Water Plant, turn on as many Booster Pumps as needed to restore pressure and make the 24th Street & U Street regulator discharge. Once a stable condition is reached, raise the 24th Street & U Street regulator setting and adjust VFD maintained pressure setting at the filter plant booster pumps to the required pressure to maintain <20 psi at 24th and U. If Booster Pumps at the old 818 G Street booster station need to be started and stopped, allow the pressure to stabilize between stops of more than one pump because these pumps aren't equipped with vfd's and do not have ramp up and ramp down capability that would lesson the chance of water hammer. Closely monitor system pressure and make adjustments when needed.
- 5. Notify Fire Department, Police Department and local Civil Defense coordinator.
- 6. Notify the Public and enforce water restrictions as needed.
- 7. Perform required sampling if 20 psi was not maintained in affected zones.
- 8. Test chlorine residuals in affected areas.
- 9. When repairs or conditions have been resolved to where the reservoir is able to be put back into service there will have to be sufficient water in the reservoir to supply enough head pressure to the north system and enough water to supply the reservoir booster pumps for the south system. Once this has been accomplished the isolation valves that were opened along 14th and 12th streets can be closed. When closing the last isolation valve between the two systems coordinate to start the booster pumps at the reservoir simultaneously to minimize pressure extremes. The vfd's at the filter plant should be set to maintain a desired set pressure and will adjust as the two systems become isolated again. If any valves on the 16" supply main to the reservoir were closed they can now be opened. Monitor the two system's pressures to see if they are adequate and make adjustments if needed.

H. If the event was on the 16" supply main. Isolate by closing valves nearest to problem. If repairs can be made in a timely fashion, monitor the reservoir levels to assure there is adequate supply for the south system. Check the operation of the vfd controls on the filter plant finished water pumps to see if they are properly maintaining the pressure in the north system. If the reservoir level drops to a level that the south system's supply may be affected follow the steps to combine the two systems as one until the situation has been corrected.

I. If the system pressure transducer at the reservoir fails and reads zero or low pressure the SCADA will start all the pumps to try and compensate for the pressure loss. This could create a high pressure situation that will require some pumps manually shut down to lower the pressure to an acceptable range. The pressure will have to be monitored physically at the reservoir pressure gauge until the transducer can be replaced. Check the operation of the bypass pressure relief valve to make sure it is functioning properly. If the pressure cannot be controlled to an acceptable range, hook up the fire hydrant pressure relief valve to help control high pressure situations.

EXPLOSION

- 1. Notify BPW General Manager and designated operator in charge.
- 2. Notify City of Auburn Fire Department.

- 3. Notify Nemaha County Civil Defense and Local Law Enforcement.
- 4. Insure that the water system is unaffected. If affected attempt to isolate damaged area to help maintain pressure. Follow procedure for low pressure in affected zones.
- If water system is affected, notify HHS Field Services Representative and Nebraska Rural Water Association (NeRWA). If assistance is needed, notify NeWARN.
- 6. If possible, insure that there is sufficient water for fire fighting.

FLOODED FACILITIES

- 1. Notify BPW General Manager and designated operator in charge.
- 2. Inform Nemaha County Civil Defense of the situation.
- 3. Inform Local Law Enforcement.
- 4. Inform HHS Field Services Representative.
- 5. Inform public and keep them informed.
- 6. Inform Nebraska Rural Water Association (NeRWA) and NEWARN to ask for assistance if needed.

TORNADO OR SEVERE STORM DAMAGE

- If damage is extensive enough notify BPW General Manager, Dave Hunter Jr. 402-274-7436, Ken Swanson BPW Water/WW Manager 402-274-7437 to assess damage so necessary authorities and recovery procedures can be initiated. Contact area HHS field representative and keep him informed. Notify the public. If extra personnel and material are needed contact NEWARN for assistance.
- 2. If power has been lost to pump facilities and can not be quickly restored. Hook up back up power supply where it is needed, to most critical areas first.
- 3. If there are areas of major water leaks attempt to isolate areas so the least disruption to the rest of the system occurs. Be prepared to supply emergency water supply to affected areas (bottled and bulk).
- 4. Check sewer lift stations to see if they are functioning or need emergency power supplied or other procedures initiated.
- 5. Once pump facilities have been evaluated and restored if necessary, move out into the distribution system to start leak repair or isolation to minimize water loss as much as possible. Mark areas, (main valves, service curb stops, fire hydrants, etc.) that have been evaluated, isolated or repaired so those assisting know what has been completed or needs attention.
- 6. Once repairs are made, lines flushed and system pressure restored, collect bacti samples in affected areas to assure water quality before notifying public that it is safe to consume.
- 7. Keep public and authorities updated on progress.

EQUIPMENT AND CONTRACTORS AVAILABLE

1. Tony Hector:	Home:	(402) 274-5868
Backhoe & pipe installation	Cell:	(402) 274-7486

- 2. Repair clamps and necessary fittings for all sizes of mains and other spare equipment (list attached).
- 3. If needed, check resources list on NEWARN website for help.

WELL CONTRACTORS

- 1. Layne Western, Valley NE Office Brad Harris Cell:
- 2. Sargent Drilling, Geneva NE (Doug Yantze)

Local Name

Office: (402) 359-2042 Cell: (402) 980-6271 Office: (402) 759-3902 Cell: (402) 759-2929

EMERGENCY BOTTLED WATER SUPPLIERS

- 1. Ideal Pure WaterOffice:(402) 392-26002. Pepsi-Cola Bottling CompanyOffice:(402) 862-2591
- 3. Coca-Cola Bottling Company Office: (402) 873-7781
- 4. See Pages #11 and #12 for additional information.
- 5. S.E. Health Department has available water containers.
- 6. Keim Trucking, Sabetha, Ks. Bulk tank trucks Office: (785) 284-2147

		LOCAL MEDIA	
1.	KNCY Radio	Phone:	(402) 873-3348
		Fax:	(402) 274-4531
2.	KLZA Radio	Phone:	(402) 245-6010
		Fax:	(402) 245-6040
3.	KTNC Radio	Phone:	(402) 245-2453
		Fax:	(402) 245-5862
4.	Time-Warner	Phone:	(800) 206-1562

SYSTEM INFORMATION

Is System Metered: Y X	N Other:
Total Service Connections: 1,700	
<u>1,411</u> Residential: <u>383</u>	_Commercial:Other
Physical Address of Treatment Plant:	<u>603 9th Street, Auburn NE 68305</u>
Physical Address or Location of Wells	: (Well ID# 911 or physical address)
	· · · · · · · · · · · · · · · · · · ·
	<u>20-66-1, 1-81-6, 2-81-6, 3-81-6, 4-81-6, 5-81-</u>
<u>6, 6-81-6, 7-89-1, 13-03-1</u>	
Average Daily Production:	
0.462 MGPD	Total Design Capacity: 2 MGPD
Total Emergency Consolity	
Total Emergency Capacity:	
<u>2.4</u> MGPD	Total Yearly Production: <u>168.0</u> MG
Average Summer Daily Demand:	
č ,	Deals Dails Demands 700 MOD
<u>0.557</u> MGD	Peak Daily Demand: <u>.706</u> MGD
Average Winter Daily Demand:	
<u>0.374</u> MGD	System Total Storage Capacity:1.835 MG
<u>0.074</u> MOD	Cystem rotal Otorage Capacity. 1.000 MG
Storage Facilities:	

Capacity <u>Address/Location</u>

**Water Treatment Plant **Reservoir	0.335 MG 1.5 MG	603 9 th Street 63814 728 Road					
Total Number of Wells: 12 Range of Production: 80 gpm to 200 gpm							
	ctive: 1						
Eme	ergency: 0						

**Please do not make public the location of our Water Treatment Plant or Reservoir for security reasons.

SPECIAL INSTITUTIONAL, COMMERCIAL AND INDUSTRIAL USERS

Nemaha County Hospital (402) 274-4366
Nemaha County Good Samaritan Center (402) 274-4954
Longs Creek Village (402) 274-5511
Auburn Housing Authority (402) 274-4525
Westbury Heights Apartments (402) 274-4017
Auburn School Superintendent
Auburn High School (402) 274-4328
Auburn Middle School (402) 274-4027
Calvert Elementary School (402) 274-4129
Education Service Unit #4 (402) 274-4354
Ariens (402) 274-8600
Magnolia Metal Corporation (402) 274-3152



TOXIC SUBSTANCES WITHIN 1,000 FT. OF PUBLIC WATER SUPPLY SYSTEM WELLS

Well #4	Septic Tank
Well #5	Septic Tank
Well #11	Septic Tank & Diesel Storage at Longs Creek

BOARD OF PUBLIC WORKS - AUBURN NE WATER DEPARTMENT - EMERGENCY MAJOR EQUIPMENT INVENTORY

Quantity 1	<u>Item</u> Fire hydrant regulating valve	Location Warehouse
1	Well motor for north well field pumps	Warehouse
8	Control relays	Service Center
1	Control boards	Power Plant
57'	Water main – 4"	Reservoir
18'	Water main – 6"	Reservoir
69'	Water main – 8"	Reservoir
12'	Water main – 10"	Reservoir
6'	Water main – 12"	Reservoir
20'	Water main- 16"	Service Center
2	Repair clamps – 2"	Service Center
5	Repair clamps – 4"	Service Center
4	Repair clamps – 6"	Service Center
2	Repair clamps – 8"	Service Center
1	Repair clamps – 10"	Service Center
1	Repair clamps – 12"	Service Center
1	Repair clamps – 16"	Service Center
2	Dresser Coupling – 4"	Service Center
6	Dresser Coupling – 6"	Service Center
2	Dresser Coupling – 8"	Service Center
2	Dresser Coupling – 10"	Service Center
2	Dresser Coupling – 12"	Service Center
2	Dresser Coupling – 16"	Service Center
2	MJ Coupling – 4"	Service Center
2	MJ Coupling – 6"	Service Center
2	MJ Coupling – 8"	Service Center
2	MJ Coupling – 10"	Service Center

2	MJ Coupling – 12"	Service Center
2	MJ Coupling – 16"	Service Center
1	Gate Valve – 4"	Service Center
1	Gate Valve – 6"	Service Center
1	Gate Valve – 8"	Service Center
2	Fire hydrant	Reservoir
1	Hydraulic Pump (450 GPM)	Service Center
1	Spare Chlorine Injection Pump	WW Treatment Plant
1	Chemical Injection Quill	Water Plant
1	150 lb. cylinder chlorine gas	Water Plant
1	12.5% Sodium hypochlorite - bulk	Waste Water Plant or
		Peru Water Treatment
		Plant
2	4-gas gas monitors	WW Treatment Plant &
		Service Center
2	Portable Generators	Water Plant
	250 KW 480 volts 3/0	
	50 KW 480/240/120 volts 3/0	

January 17, 2012

Per Lisa Bloss, Emergency Response Coordinator, Southeast District Health Department, the sanitary water containers stored in the vault at the Wellness Center in Auburn, 601 J St. are ready to be used in an emergency situation. Lisa checked with the supplier, General Films. The stated shelf life is 5 years, but Lisa was assured that the containers are still safe for use in an emergency situation. Please refer to letter received from Southeast District Health Department, dated June 24, 2005. (See page 13)

Appendix E: Master Plan

MASTER PLAN (TWO AND TEN YEAR)

CITY OF AUBURN PUBLIC WATER SYSTEM

APPROVED BY BOARD OF PUBLIC WORKS FEBRUARY 11, 2008 (Updated February 13, 2009) (Updated February 13, 2012) (Updated January 15, 2014) (Updated January 28,2015)

SHORT AND LONG TERM PLAN CITY OF AUBURN WATER SYSTEM

TWO YEAR PLAN

1. WELL (SOURCE) CAPACITY:

- a) Conduct yearly maintenance tests on wells and re-hab as necessary. Phase wells into new treatment technology that we have contracted with Utility Services as necessary.
- b) Continue weekly drawdown measurements during drought conditions monthly during winter season.
- c) Prevent rust and corrosion by keeping well piping painted when & where needed.
- d) Research and develop a plan to assure adequate recharge from Little Nemaha River for wells.
- e) Develop new wells to increase water availability.
- f) Develop a plan to determine when the cost & short duration of well re-habs can no longer be justified and either capping or re-drilling should be considered.
- g) Finish converting pump motors to VFD at wells that haven't been converted yet.
- 2. STORAGE:
 - a) Monitor water pumped vs. water sold to better calculate water loss percentages.
 - b) Line the main reservoir to minimize water loss.
 - c) Investigate the purchase and installation of an Emergency Generator at the reservoir. **Done**
 - d) Monitor Chlorine levels to insure proper levels are maintained.
 - e) Meter Booster Pump #4 at the Reservoir
 - f) Determine if booster pump #2 @ reservoir could be resized to match booster #3 pumping capacity for better flow and pressure control
- 3. SYSTEM DEMAND:

- a) Monitor water usage to see if recent increases are due to drought or are long-term trends.
- b) Perform leak survey on distribution system and make necessary repairs to minimize loss. Survey was done Summer of 2014
- 4. POPULATION:
 - a) Population in system has been decreasing, and no new industry is currently expected.
- 5. WATER SYSTEM VALUE:
 - a) Continue to monitor system reserve fund to determine if the revenue supply to this fund needs to be increased.
 - b) Educate the public and the board on the need to run the utility as a business.
 - c) Inventory vacant properties with active water service.
- 6. WATER QUALITY:
 - a) Adopt an encroachment ordinance to protect the system wells inside and outside the zoning limits.
 - 1. Continue with the program to cap unused wells in the Wellhead Protection area.
 - 2. Conduct our next round of Backflow Customer Surveys. STATUS – last done 2012
 - b) Explore the use of county zoning to protect the system wells outside the zoning limits.
- 7. GENERAL SYSTEM IMPROVEMENTS:
 - a) Start replacing old Corey Hydrants in the system.
 - b) Update system map, which is an ongoing project. Include a program to inventory shut-off valves, hydrants, and mains and GPS locations.
 - c) Acquire emergency generators for wells if possible.
 - d) Upgrade system security.

- e) Replace and/or repair other system components as needed.
- f) Increase pressure in south system and change pressure zone boundaries.
- g) Develop and implement a plan to address water pressure issues at Terrace Heights Development. HAVE DONE A *PER* FOR THIS, trying to acquire funding and is at a stalemate at City Hall.
- h) Continue to cap off unused services and eliminate lead services when encountered.
- 8. MAIN EXTENSIONS:
 - a) Tie 8" main on R Street to 16" transmission main to the reservoir when Highway 136 is repaved. Scheduled for summer of 2014 or 2015 (Done September 2015)
 - b) Water District for recent city annexations as needed.
 - c) Loop 8" main from City Rec. across creek to the north and tie in at the Industrial site.
 - d) Design water main to serve Industrial Tract to meet needs of entire site.

TEN YEAR PLAN

- 1. WELL (SOURCE) CAPACITY:
 - a) Replace older wells as needed or re-drill.
 - b) Develop a new well north of Well 13 and extend transmission main to it.
 - c) Acquire backup power for one or more wells.
 - d) Loop raw water line from east well field to Well 13.
 - e) Install fire hydrants on each side of the river crossing to allow for the potential of a temporary line.
- 2. STORAGE:
 - a) Line storage tanks in the clear well reservoir to minimize water loss.
- 3. SYSTEM DEMAND:
 - a) Continue to monitor system use to determine if current distribution mains are adequate for future demands.
 - b) Figure out a way to loop the Hospital & Good Samaritan water mains. Searching for funding possibilities.
- 4. POPULATION:
 - a) Population trends are stagnant. Continue to monitor. May need to make adjustments if CJ Foods who bought the old Armstrong Cabinet property ever decides to start manufacturing at this site, currently is used only for bulk storage.
- 5. WATER SYSTEM VALUE:
 - a) The current reserve fund will be reviewed with an eye towards longterm infrastructure needs and the budgeted income for this fund will be adjusted as needed.
 - b) Conduct water audit and rate study for system. DONE.
- 6. WATER QUALITY:

- a) Install PRV valves in high pressure areas to eliminate potential over-pressuring problems.
- b) Monitor individual well nitrate levels to be prepared if MCL is lowered from 10 mg/L to 5 mg/L so we know if any wells will potentially be a problem.

7. GENERAL SYSTEM IMPROVEMENTS:

- a) Replace older fire hydrants in system as needed. Try to budget a set number of hydrants to replace each year and complete this task.
- b) Replace main valves as needed.
- c) Loop distribution mains in developing areas as needed.
- d) Replace older water meters as needed and replace with lead-free brass or composite material to meet new standards.
- 8. MAIN EXTENSIONS:
 - a) Terrace Heights Addition as development continues or loop any dead ends if the opportunity is available.

Appendix F: Public Involvement Documentation

BOARD OF PUBLIC WORKS

CITY OF AUBURN, NE ELECTRIC, WATER & WASTEWATER SERVICES

BOARD MEMBERS Dan Buman Richard L. Wilson Charles Knipe

Michael Zaruba

Phil Shaw



GENERAL MANAGER David A. Hunter Jr.

Phone: (402) 274-4981Office (402) 274-3316 After Hours (402) 274-4991 Fax

June 19, 2018

Sam Radford NDEQ Source Water Program 1200 N Street, Suite 400 Lincoln, NE 68509

Re: Wellhead Protection Plan Public Comment Period Proof of Publication

The City of Auburn, led by the Auburn Board of Public Works (BPW), recently completed a Wellhead Protection Plan. The purpose of this letter is to verify that the BPW has followed guidelines set forth by the Nebraska Department of Environmental Quality regarding requirements for allowing proper public feedback.

The public was notified through flyers placed at the Auburn Board of Public Works Office 1600 O Street and Auburn City Hall 1101 J Street in addition to a public notification placed in the Nemaha County Herald from to April 19, 2018 to May 14, 2018. A hard copy of the draft plan document was made available for public review between May 12 to June 11, 2018 at the BPW office, 1600 O Street. During the public review period and the public hearing, we received minimal formal input from the public. The first public hearing was held on May 14, 2018, at 7:30pm, and a second was held June 11, 2018, at which time the Auburn City Council approved the plan through ordinance.

If you have any questions, please contact me at 402.366.1615. Thank you for your assistance as we put together our wellhead protection plan.

Sincerely,

David Hunter, Jr.

General Manager Board of Public Works

encl

PROOF OF PUBLICATION

The State of Nebraska, County of Nemaha Kendall Neiman being first duly sworn, says that he is Publisher of The Nemaha County Herald, a legal newspaper which is published and is in general circulation in Nemaha County, Nebraska, and is printed weekly at its office in Auburn, Nebraska that said newspaper has been so published in said county for more than fifty-two consecutive weeks prior to the publication of the annexed notice, and has a bona fide circulation of more than three hundred copies each issue, and is printed in the English language.

That to affiant's personal knowledge, the annexed notice was published in said newspaper on

Publisher's fee at legal rate is \$_70__ Subscribed and sworn to before me this

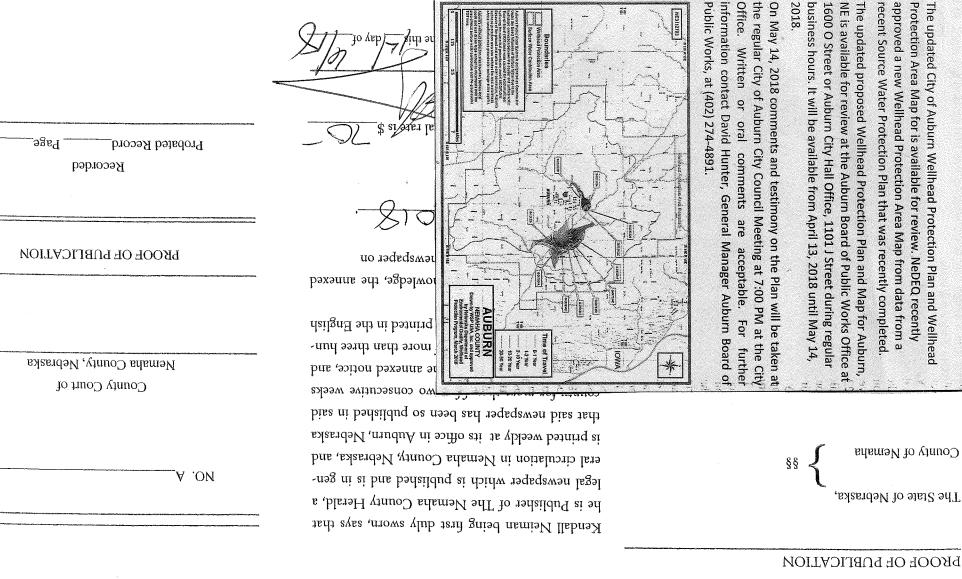
Votary Public

General Notary State of Nebraska GLENICE K. MEYER My Comm. Exp. Dec. 20, 2021.

NO. A
County Court of
Nemaha County, Nebraska
PROOF OF PUBLICATION
Recorded Probated RecordPage

PUBLIC NOTICE

2018.



detary Public

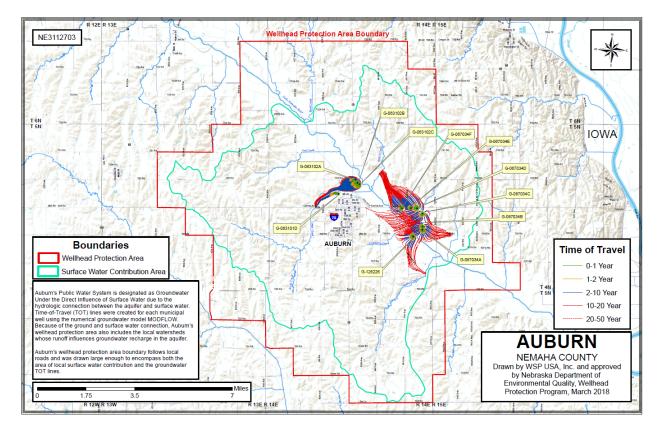
to yed



The updated City of Auburn Wellhead Protection Plan and Wellhead Protection Area Map for is available for review. NeDEQ recently approved a new Wellhead Protection Area Map from data from a recent Source Water Protection Plan that was recently completed.

The updated proposed Wellhead Protection Plan and Map for Auburn, NE is available for review at the Auburn Board of Public Works Office at 1600 O Street or Auburn City Hall Office, 1101 J Street during regular business hours. It will be available from April 13, 2018 until May 14, 2018.

On May 14, 2018 comments and testimony on the Plan will be taken at the regular City of Auburn City Council Meeting at 7:00 PM at the City Office. Written or oral comments are acceptable. For further information contact David Hunter, General Manager Auburn Board of Public Works, at (402) 274-4891.



NOTICE OF PUBLIC HEARING

Notice is hereby given that the (*Mayor and City Council*) of City of Auburn, Nebraska will hold a public hearing on to approve an updated Wellhead Protection Plan (WHPP) and Wellhead Protection Area (WHPA) as required by the Nebraska Department of Environmental Quality on (*Date & Time*) at (*Location*)

The purpose of this public hearing is to receive comments and discuss the proposed changes to the new WHPP and WHPA. All local citizens and any other interested parties, governmental agencies or groups are encouraged to comment.

Maps, drawings, and other pertinent data will be available upon request for public inspection by contacting the City Clerk. Written statements may be submitted prior to or at the time of the hearing.

	For Immediate Release								
Contact:	Auburn Board of Public Works								
	Dave Hunter								
	1600 'O' Street								
	Auburn, NE 68305-0288								
Phone:	402-274-4981								
Email:	dhunter@auburnbpw.com								
Date:	June 21, 2017								

Auburn Board of Public Works to Develop a Drinking Water Protection Plan

The Auburn Board of Public Works (BPW) is establishing a Drinking Water Protection Management Plan (Plan) that covers the new 51,400-acre Wellhead Protection Area (WHPA). The WHPA represents the area where the municipal wells draw water from over a 50-year time period. The WHPA also includes watersheds where surface water may contribute to the groundwater reaching a well. The new WHPA is under review by the Nebraska Department of Environmental Quality (NDEQ), who has also provided grant funding to support development of the Plan. Nemaha Natural Resources District (Nemaha NRD) is also a key project partner.

The Plan is focusing on reducing pollutants entering surface water to several small tributaries that are known to recharge the aquifer that supports Auburn's drinking water, including: Longs Creek, Willow Creek, Ord Creek, Codington Creek, Hughes Creek, and several other small tributaries east of the Little Nemaha River.

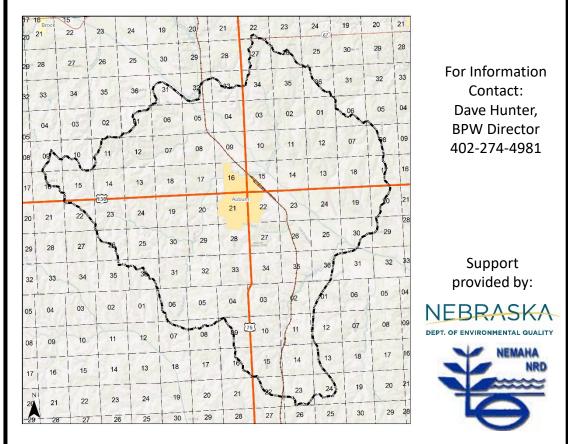
The ultimate goal is to educate producers and citizens on what they can do to reduce nitrate concentrations in the aquifer and reduce bacteria contributions to surface water. The Plan will also include a strategy to reduce infiltration of nitrates past the effective root zone of crops. An additional goal is to identify options to enhance recharge of the aquifer to help protect the system from drought. Conservation practices, such as cover crops, buffer strips, and grassed waterways are being considered by a Stakeholder Group consisting of several producers and Auburn citizens within the area. Other members include the Auburn BPW, Nemaha NRD, NDEQ, and the consultant, Leggette, Brashears, & Graham, of Lincoln, who is responsible for writing the Plan. The Stakeholder Group has met once, and will meet two additional times in 2017. A public open house will be held when a full draft plan is developed, likely late in 2017.

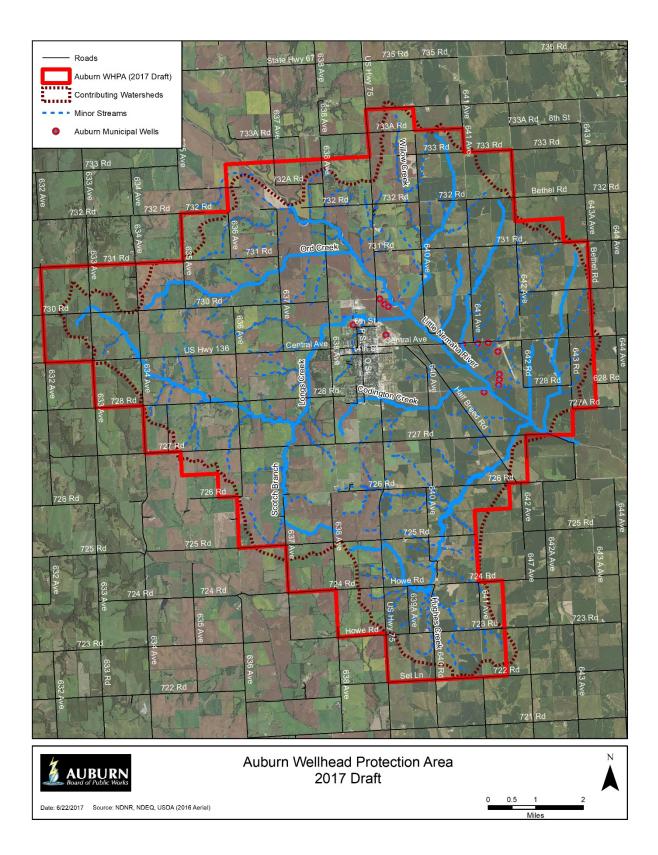
Plan development is anticipated to be completed before the end of 2017 and will then be reviewed and approved by NDEQ. After approval, the Auburn BPW will become eligible for grant funding and work with Nemaha NRD to begin a program to offer cost-share and incentives to producers to implement practices that will improve water quality. Additional incentives will be considered for home owners with inadequate septic systems within the WHPA.

For more information, or to provide input, you can contact Auburn BPW General Manager, Dave Hunter at 402-274-4981, or <u>dhunter@auburnbpw.com</u>.

Auburn Drinking Water Protection Project

The Auburn Board of Public Works (BPW) is asking the help of property owners to identify abandoned wells. The BPW can assist with the full cost to decommission these wells within the area of interest shown below. Please contact the BPW if you would like your well properly abandoned.

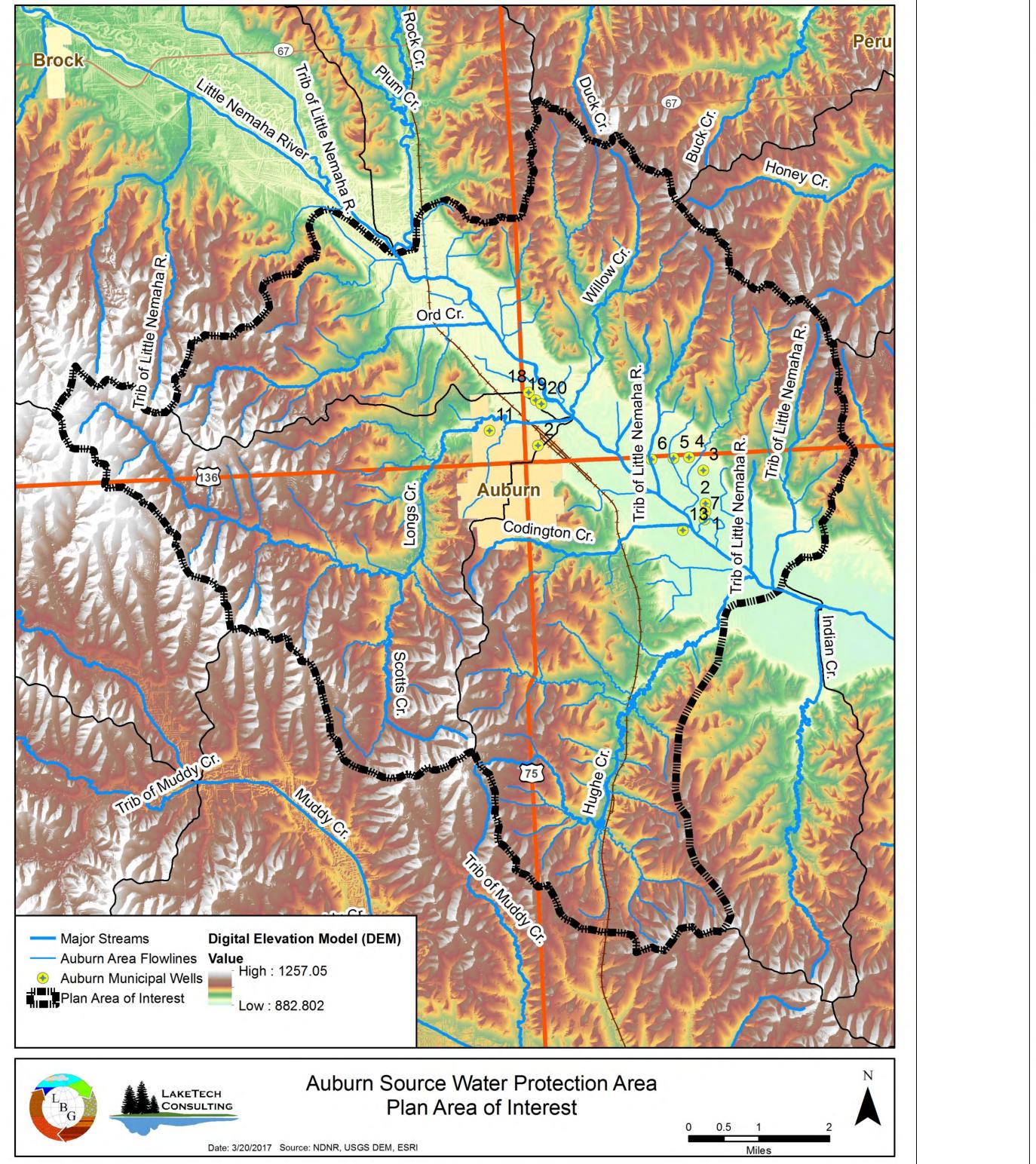


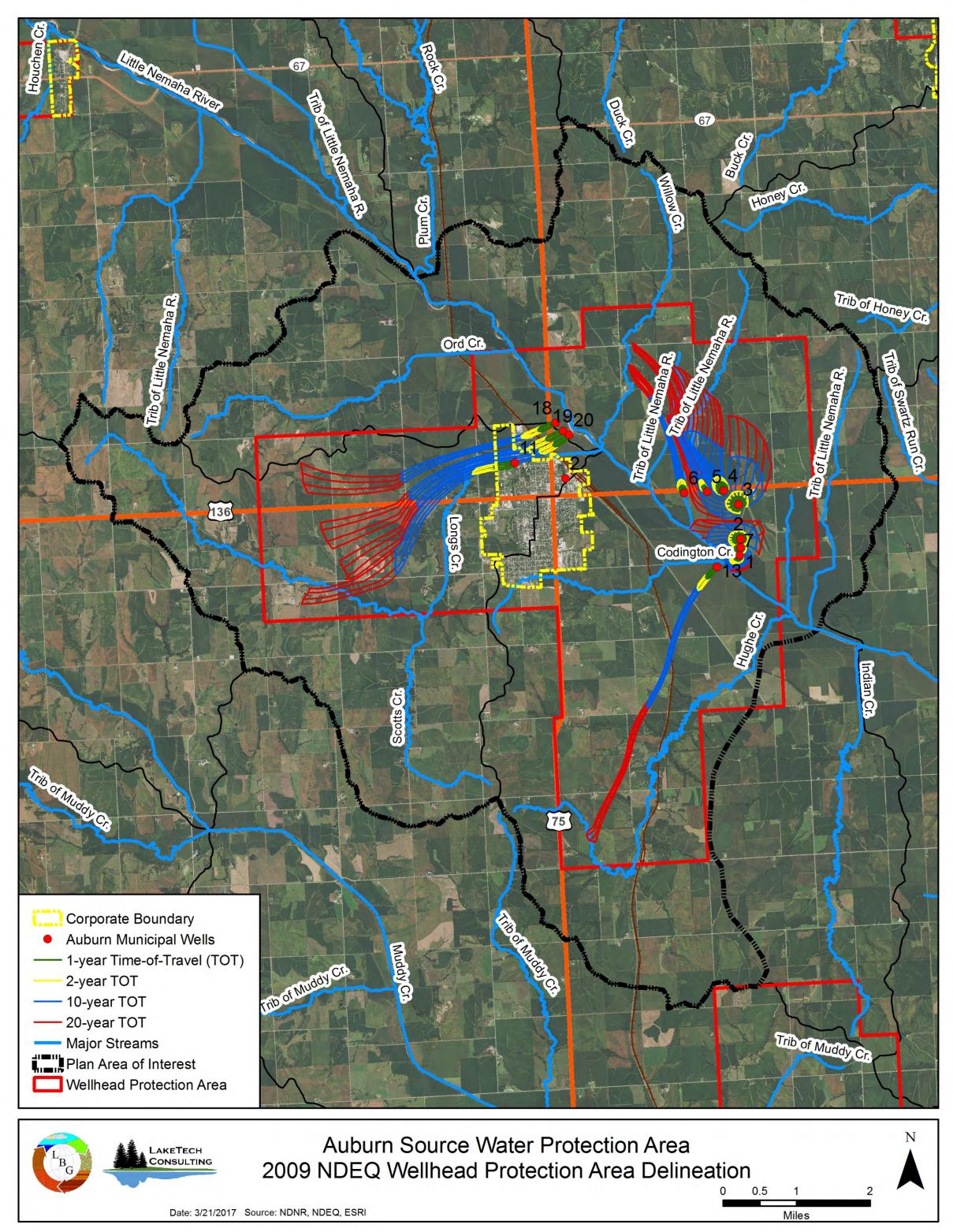


Auburn Drinking Water Protection Plan

What is the intent of the plan?

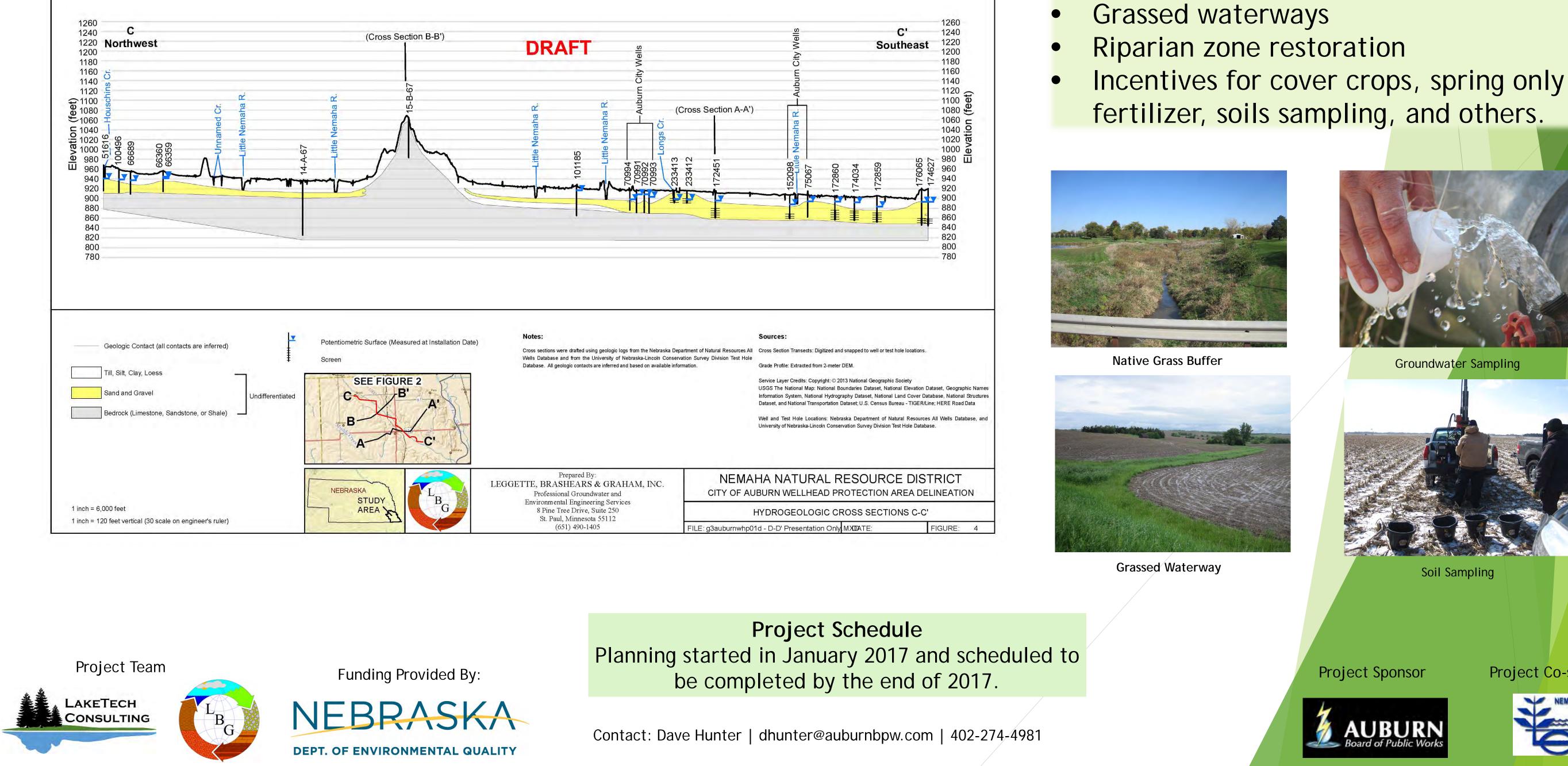
The plan is documenting a proactive approach to improve the quality of Auburn's drinking water supply. The plan will create eligibility for state funding sources that can assist with installing conservation practices. The plan area includes the local alluvial aquifer and waterways that flow above it. The overall goal is to reduce pollutant loading, especially nitrates, to the aquifer.





WATER QUALITY BMPS

Stream and waterway buffers



Groundwater Sampling



Soil Sampling

Project Co-sponsor







Auburn Drinking Water Protection Plan

Stakeholder Group Meeting #2 Auburn Board of Public Works July 10, 2017 – 6:30pm

1. Drinking Water Protection Plan Status

- Review of rough draft
- Plan full draft September 2017

2. Wellhead Protection Area Discussion

• WHPA report/map to NDEQ for review

3. Wellhead Protection Plan Update

- Stakeholder Group to also serve as committee
- Contaminant source inventory
- Plan from 2009 will be updated and submitted to NDEQ for review

4. Water Quantity Issues

- Consideration of in-stream recharge options
- Wetland/recharge near Long's Creek NDOR property

5. Conservation Practices

- Review BMP siting map
- Consider Nebraska Environmental Trust Grant

6. Next Steps

- Continue plan writing
- Final Stakeholder Group Meeting (September 2017)
- Open house present draft plan, receive public input





July 10, 2017 at 6:30PM – Auburn Board of Public Works Office Stakeholder Group Meeting #2 of 2 – Sign-in **Auburn Drinking Water Protection Plan**

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Auburn Drinking Water Protection Plan Stakeholder Group Meeting #3 of 3 Auburn Board of Public Works September 21, 2017 – 5:30pm

1. Drinking Water Protection Plan Status

- Draft plan complete and ready for review
- Will incorporate changes from all reviewers and submit final for NDEQ/EPA review and approval

2. Little Nemaha Aquifer Recharge Project

- Submitted joint application to Nebraska Environmental Trust with Nemaha NRD on September 5
- Focus on recharge structures, borrow pit for recharge, and monitoring wells (NRD focus on monitoring wells)

3. Wellhead Protection Area

- WHPA report finalized, but WHPA may change slightly
- Changes in WHPA boundary will be incorporated as comments are incorporated into the Plan

4. Conservation Practices

• Goals related to land treatment acres, cost, etc.

5. Implementation Strategy

- Discuss phase I over four years
- Watershed rotation and priorities

6. Open House

- Educate on local hydrogeology, water quality and quantity issues
- Drinking Water Protection Plan purpose and key recommendations

7. Next Steps

• Make final changes to plan and await NDEQ and EPA approval





September 21, 2017 at 5:30PM – Auburn Board of Public Works Office Stakeholder Group Meeting #3 of 3 – Sign-in **Auburn Drinking Water Protection Plan**

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September 21, 2017 at 7:00PM – Auburn Board of Public Works Office **Auburn Drinking Water Protection Plan OPEN HOUSE – Sign-in**

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September 21, 2017 at 7:00PM – Auburn Board of Public Works Office **Auburn Drinking Water Protection Plan OPEN HOUSE – Sign-in**

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				Jon. mohr@lbg.mn. com	Jane, les, andrew (1)	EMIAIL
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