Village of Sauk Village
Project Plan
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1.0 INTRODUCTION

1.1 Purpose
The purpose of this Project Plan is to present an analysis of the Village of Sauk Village’s current water system and to provide recommendations for water system improvements for a 20-year planning period.

1.2 Location
The Village of Sauk Village is located in Cook and Will Counties in northeastern Illinois. It is bordered by the communities of Lynwood, Ford Heights, Chicago Heights, Steger, Crete, and unincorporated Cook and Will Counties.

1.3 Population/Demographics
The population of Sauk Village was 10,506 per the 2010 census, comprised of 3,685 households. At the time of the census, the population was 23.8% White, 62.0% African American, 11.1% Hispanic or Latino (from all races), 0.1% Indian, 0.3% Asian, 0.2% from other races, and 2.5% from two or more races. Of these 10,506 people, 34.5% were under the age of 18, 10.1% from 18 to 24, 11.9% from 25 to 34, 19.4% from 35 to 49, 15.9% from 50 to 64, and 8.0% who were 65 years of age or older.

Sauk Village’s future population projection is based on reasonable assumptions from historic census data (see Appendix 1 for population forecast). Between 1970-2010, Sauk Village’s population grew by an average of 1%. Utilizing this growth rate projects a 2030 population of 12,819.

1.4 Current Service Area
Sauk Village’s public water supply service area measures approximately 4.0 square miles. The Village of Sauk Village provides water to 2,943 customers that consist of 2,874 residential, 61 commercial, and 8 school customers. The public water supply also serves two private developments: Candlelight Village and Weatherstone Lakes mobile home parks.

1.5 Future Service Area
Future development within Sauk Village will expand the Village’s current service area which includes: a recently established 325-acre industrial park in the northwest section of Sauk Village that continues to expand; the redevelopment of properties along the Sauk Trail Corridor; and the conversion of agricultural land to subdivisions within the Village. Future economic engines in the Chicago Southland area, such as a new airport and Metra services, will provide additional impetus for future development.
2.0 ESTIMATE OF WATER USAGE

2.1 Current Water Usage
Average day demand (ADD) is the average total water supplied by Sauk Village’s water system per day. Maximum day demand (MDD) is the maximum total water supplied by Sauk Village’s water system per day. The ADDs, MDDs, and ratios of MDD to ADD for the months in 2012 are listed below.

<table>
<thead>
<tr>
<th>MONTH</th>
<th>MDD (MGD)</th>
<th>ADD (MGD)</th>
<th>MDD:ADD</th>
</tr>
</thead>
<tbody>
<tr>
<td>January</td>
<td>1.66</td>
<td>1.34</td>
<td>1.24</td>
</tr>
<tr>
<td>February</td>
<td>1.75</td>
<td>1.15</td>
<td>1.52</td>
</tr>
<tr>
<td>March</td>
<td>1.56</td>
<td>1.25</td>
<td>1.25</td>
</tr>
<tr>
<td>April</td>
<td>1.51</td>
<td>1.02</td>
<td>1.48</td>
</tr>
<tr>
<td>May</td>
<td>0.98</td>
<td>0.79</td>
<td>1.24</td>
</tr>
<tr>
<td>June</td>
<td>1.65</td>
<td>0.98</td>
<td>1.68</td>
</tr>
<tr>
<td>July</td>
<td>1.21</td>
<td>0.92</td>
<td>1.32</td>
</tr>
<tr>
<td>August</td>
<td>0.99</td>
<td>0.80</td>
<td>1.24</td>
</tr>
<tr>
<td>September</td>
<td>0.88</td>
<td>0.74</td>
<td>1.19</td>
</tr>
<tr>
<td>October</td>
<td>0.93</td>
<td>0.74</td>
<td>1.26</td>
</tr>
<tr>
<td>November</td>
<td>0.82</td>
<td>0.72</td>
<td>1.14</td>
</tr>
<tr>
<td>December</td>
<td>1.21</td>
<td>0.72</td>
<td>1.68</td>
</tr>
<tr>
<td>AVERAGES</td>
<td>1.26</td>
<td>0.93</td>
<td>1.35</td>
</tr>
</tbody>
</table>

Utilizing the 2010 census population of 10,506, the resulting average water usage per person was 89 gallons per capita per day (gpcpd), and the maximum water usage was 167 gpcpd (based on the peak MDD of 1.75 mgd in February 2012).

2.2 Projected Water Usage
Utilizing the projected 2030 population of 12,819 listed in Section 1.3 and the ADD of 89 gpcpd calculated in Section 2.1, the projected 2030 ADD is 1.14 mgd. Likewise, multiplying the projected 2030 population and the MDD of 167 gpcpd calculated in Section 2.1, the projected 2030 MDD is 2.14 mgd.
3.0 **EXISTING WATER FACILITIES**

### 3.1 Existing Public Water Supply

The Village of Sauk Village pumps and treats groundwater for their public water supply. The Village has two water treatment plants. The first treatment plant, WTP 1, houses Well 1 and Well 2, and the second treatment plant, WTP 2, houses Well 3 (see Appendix 2). The raw groundwater pumped from these wells is aerated, passes through an iron filter, and is injected with fluoride, phosphate, and chlorine. In spite of this treatment, the Village’s water users have had ongoing issues for many years with the water quality, including taste, odor, corrosion, high hardness, and scaling of the water piping.

The Village also experienced groundwater contamination when concentrations of vinyl chloride and other volatile organic compounds (VOCs) were detected during routine testing in 2009. The Village then removed Well 3 from service due to the presence of the vinyl chloride. This has compromised the Village’s ability to meet the firm capacity requirements of the IEPA. During peak demand days, the Village will not be able to produce enough water if the remaining largest capacity well is also out of service.

A summary of the Village’s actual well capacities as reported by Sauk Village’s operators is presented below.

<table>
<thead>
<tr>
<th>WELL</th>
<th>CAPACITY (GPM)</th>
<th>CAPACITY (MGD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Well 1</td>
<td>680</td>
<td>0.98</td>
</tr>
<tr>
<td>Well 2</td>
<td>1,000</td>
<td>1.44</td>
</tr>
<tr>
<td>Wells 1&amp;2 Combined</td>
<td>1,600¹</td>
<td>2.30</td>
</tr>
<tr>
<td>Well 3 (out of service)</td>
<td>1,000</td>
<td>1.44</td>
</tr>
<tr>
<td>Firm Capacity (current)</td>
<td>680</td>
<td>0.98</td>
</tr>
<tr>
<td>Firm Capacity (all wells operational)</td>
<td>1,680</td>
<td>2.42</td>
</tr>
</tbody>
</table>

The current firm capacity of 0.98 mgd is barely sufficient to provide the 2012 average day demand of 0.93 mgd. The current firm capacity does not provide the 2012 MDD of 1.75 mgd. However, if Well 3 could be restored to service, the resulting firm capacity of

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¹ The combined pumping capacity of Wells 1&2 is diminished due to the influence of the cone of depression generated by each well pump.
2.42 mgd would be sufficient to provide sufficient water capacity to supply both the current maximum day demand of 1.75 mgd and the projected 2030 MDD of 2.14 mgd.

A summary of vinyl chloride (VC) test results from raw groundwater at both treatment plant locations is presented below.

<table>
<thead>
<tr>
<th>COLLECTION DATE</th>
<th>WELL 1 VC (ug/l)</th>
<th>WELL 2 VC (ug/l)</th>
<th>WELL 3 VC (ug/l)</th>
</tr>
</thead>
<tbody>
<tr>
<td>July 2009</td>
<td>Non-Detect</td>
<td>Non-Detect</td>
<td>2.37</td>
</tr>
<tr>
<td>November 2009</td>
<td>0.96</td>
<td>0.50</td>
<td>3.49</td>
</tr>
<tr>
<td>March 2010</td>
<td>0.99</td>
<td>0.61</td>
<td>4.61</td>
</tr>
<tr>
<td>May 2010</td>
<td>0.74</td>
<td>0.60</td>
<td>4.81</td>
</tr>
<tr>
<td>September 2010</td>
<td>1.14</td>
<td>0.84</td>
<td>4.34</td>
</tr>
<tr>
<td>December 2010</td>
<td>0.97</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>March 2011</td>
<td>1.44</td>
<td>0.68</td>
<td>5.14</td>
</tr>
<tr>
<td>May 2011</td>
<td>1.15</td>
<td>0.95</td>
<td>5.93</td>
</tr>
<tr>
<td>August 2011</td>
<td>1.13</td>
<td>0.80</td>
<td>4.48</td>
</tr>
<tr>
<td>October 2011</td>
<td>1.25</td>
<td>0.88</td>
<td>5.45</td>
</tr>
<tr>
<td>January 2012</td>
<td>1.14</td>
<td>0.75</td>
<td>5.68</td>
</tr>
<tr>
<td>April 2012</td>
<td>1.06</td>
<td>0.95</td>
<td>7.93</td>
</tr>
<tr>
<td>July 2012</td>
<td>0.84</td>
<td>0.54</td>
<td>4.45</td>
</tr>
<tr>
<td>October 2012</td>
<td>0.81</td>
<td>0.70</td>
<td>3.12</td>
</tr>
<tr>
<td>November 2012</td>
<td>0.74</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>December 2012</td>
<td>0.74</td>
<td>0.59</td>
<td></td>
</tr>
</tbody>
</table>

In addition to the above issues, the iron removal equipment at both treatment plants requires improvements. The iron removal equipment capacity at both treatment plants is 1,000 gpm. The media within the pressure filter at WTP 1 has never been replaced, and the tank interior has not been inspected for structural integrity. The structural integrity of the iron filter at WTP 2 has been compromised, and the media has never been replaced. Also, because Well 3 has been out of service, parts of the iron filter and chemical feed equipment have been removed from WTP 2 for use at WTP 1 to keep that facility in service. This insufficient iron removal treatment has resulted in poor water quality.
3.2 **Need for Proposed Public Water Supply Improvements**
Sauk Village’s water supply facilities need the following improvements:

1. Equipment at both treatment plants to removal vinyl chloride from the raw groundwater to enable operation of both plants, restoring firm capacity
2. Replacement of iron filters at both treatment plants to remove iron from the raw groundwater

3.3 **Existing Storage Facilities**
The Village currently has two elevated tanks and a ground storage reservoir within the community. The capacity of the North Elevated Tank is 400,000 gallons, which is located near WTP 2. The capacity of the West Elevated Tank is 500,000 gallons, which is located west of I-394 and south of Sauk Trail. The ground storage reservoir capacity is 300,000 gallons, which is located at WTP 1. The Village’s total storage capacity is 1,200,000 gallons.

3.4 **Need for Proposed Storage Facility Improvements**
Currently Sauk Village’s storage capacity is sufficient with the current ADDs and MDDs. As Sauk Village’s population expands and/or future development increases water demands, storage facility improvements will be reassessed.

3.5 **Existing Water Distribution System**
The Village has approximately 43 miles of water main providing service to residential and commercial customers. The water mains range from 3 inches to 16 inches in diameter. Water is distributed throughout the system by pump stations at each treatment plant, while system pressure is stabilized by the elevated tanks.

The distribution system has a high percentage of water losses as detailed below.
<table>
<thead>
<tr>
<th>MONTH</th>
<th>TOTAL WATER SUPPLIED (GAL)</th>
<th>TOTAL WATER BILLED (GAL)</th>
<th>WATER LOSS (GAL)</th>
<th>WATER LOSS (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>January 2011</td>
<td>42,165,000</td>
<td>22,184,200</td>
<td>19,980,800</td>
<td>47%</td>
</tr>
<tr>
<td>February 2011</td>
<td>40,146,000</td>
<td>16,522,600</td>
<td>23,623,400</td>
<td>59%</td>
</tr>
<tr>
<td>March 2011</td>
<td>43,390,000</td>
<td>23,117,600</td>
<td>20,272,400</td>
<td>47%</td>
</tr>
<tr>
<td>April 2011</td>
<td>43,474,000</td>
<td>17,805,200</td>
<td>25,668,800</td>
<td>59%</td>
</tr>
<tr>
<td>May 2011</td>
<td>45,668,000</td>
<td>29,637,800</td>
<td>16,030,200</td>
<td>35%</td>
</tr>
<tr>
<td>June 2011</td>
<td>44,680,000</td>
<td>40,954,300</td>
<td>3,725,700</td>
<td>8%²</td>
</tr>
<tr>
<td>July 2011</td>
<td>46,220,000</td>
<td>2,504,100</td>
<td>43,715,900</td>
<td>95%</td>
</tr>
<tr>
<td>August 2011</td>
<td>46,290,000</td>
<td>18,305,500</td>
<td>27,984,500</td>
<td>60%</td>
</tr>
<tr>
<td>September 2011</td>
<td>44,047,000</td>
<td>23,188,100</td>
<td>20,858,900</td>
<td>47%</td>
</tr>
<tr>
<td>October 2011</td>
<td>45,092,000</td>
<td>12,669,500</td>
<td>32,422,500</td>
<td>72%</td>
</tr>
<tr>
<td>November 2011</td>
<td>46,207,000</td>
<td>20,336,000</td>
<td>25,871,000</td>
<td>56%</td>
</tr>
<tr>
<td>December 2011</td>
<td>48,121,000</td>
<td>17,100,500</td>
<td>31,020,500</td>
<td>64%</td>
</tr>
<tr>
<td>January 2012</td>
<td>41,500,000</td>
<td>21,640,000</td>
<td>19,860,000</td>
<td>48%</td>
</tr>
<tr>
<td>February 2012</td>
<td>33,466,000</td>
<td>13,536,500</td>
<td>19,929,500</td>
<td>60%</td>
</tr>
<tr>
<td>March 2012</td>
<td>38,844,000</td>
<td>20,345,700</td>
<td>18,498,300</td>
<td>48%</td>
</tr>
<tr>
<td>April 2012</td>
<td>30,648,000</td>
<td>14,794,400</td>
<td>15,673,600</td>
<td>52%</td>
</tr>
<tr>
<td>May 2012</td>
<td>24,495,000</td>
<td>16,640,800</td>
<td>7,854,200</td>
<td>32%</td>
</tr>
<tr>
<td>June 2012</td>
<td>29,260,000</td>
<td>20,493,300</td>
<td>8,766,700</td>
<td>30%</td>
</tr>
<tr>
<td><strong>AVERAGES</strong></td>
<td><strong>40,761,833</strong></td>
<td><strong>19,543,117</strong></td>
<td><strong>21,218,717</strong></td>
<td><strong>51%</strong></td>
</tr>
</tbody>
</table>

² There were billing issues in June 2011 that were corrected by July 2011.
3.6 Need for Water Distribution System Improvements

The significant water losses detailed above within the distribution system require a leak detection survey to identify the leakage locations. Once identified, leaking water mains, valves, hydrants, and other facilities can be repaired to significantly reduce water losses. This is evidenced by the significant water supply reduction that has been observed since early 2012 when Sauk Village’s Public Works Department identified and repaired several major water main leaks. Since February 2012, Sauk Village’s water pumping totals have fallen from 40 million gallons per month to 30 million gallons per month, and then in the last six months to about 22 million gallons per month.

In addition to the above, Sauk Village’s water system only has one water main that connects the east side of the Village to the west side across I-394 (see the water atlas in Appendix 3). Should a water main break occur on this connection and shut down of the main is required for repair, then the west side of the Village will only have the water remaining in the West Elevated Tank to serve water demands. This is because all the Village’s wells are on the east side of I-394. This water main break scenario (which has happened recently) isolates the west part of the Village from a water supply, which is a potentially dire situation especially if a fire occurs in this region.

We recommend a 16-inch diameter water main loop connection either along the Canadian National railroad on the north side of the Village, or from the Sauk Pointe Industrial Park to the Lincoln Meadows subdivision on the south side of the Village (see Appendix 3).

4.0 EXISTING AND POTENTIAL VIOLATIONS

4.1 Existing Violations

4.1.1 Deficient Firm Capacity

As discussed previously, with Well 3 out of operation the current firm capacity of 0.98 mgd is just over the 2012 ADD of 0.93 mgd, and is just sufficient to meet current average water demand. The current firm capacity is insufficient to provide the 2012 MDD of 1.75 mgd.

4.1.2 Vinyl Chloride Contamination

In 2009, VC contamination was detected in Well 3. When VC levels exceeded the federal Maximum Contaminant Level (MCL) of 2 parts per billion (ppb), Well 3 was taken out of service. More recently, VC was also detected in Wells 1&2 at levels approximately half of the MCL. These VC levels triggered a public notice regarding the presence of VC in the distribution system. Pursuant to the detection and public notice, the IEPA and Illinois Office of the Attorney General pursued enforcement measures against Sauk Village to correct the community water quality issues. An order was filed on July 27, 2012 by the office of the Illinois Attorney General to require temporary air stripping units for the current operating wells. The units were provided and installed by the IEPA, and are
currently operational at WTP 1. Since the installation of the temporary air strippers, the treated water sampling results have indicated VC levels to be non-detect.

Below is a timeline of events concerning Sauk Village’s water supply contamination:

- **June 2009** – The IEPA mailed public notices to users of the Sauk Village water supply that water from Well 3 was contaminated with high concentrations of VC. The frequency of VC sampling was increased to a quarterly schedule.

- **July 2009** – Sauk Village subsequently took Well 3 out of service as a precaution.

- **July 16, 2012** – The IEPA notified Sauk Village that the VC concentrations at Wells 1&2 were approaching 1 ppb.

- **July 23, 2012** – Sauk Village notified residents that VC was detected in the finished water at a level greater than 1 ppb. Under an order filed by the Office of the Illinois Attorney General, the IEPA contracted for two sets of temporary air strippers (Units 1, 2, 3, and 4) to be installed at WTP 1 to remove VC from Wells 1&2. Sauk Village was also required to provide bottled water to its customers.

- **July 27, 2012** – The Office of the Illinois Attorney General filed an order to require Sauk Village to install its own air stripping units and assume the costs of operating the temporary system contracted by the IEPA.

- **August 4, 2012** – The temporary air stripping Units 1 and 2 were fully operational and removing VC to below the detectable limit.

- **August 13, 2012** – The IEPA reported that VC was no longer being detected in the water distributed to the users of Sauk Village.

- **August 17, 2012** – Testing verified that the temporary air stripping Units 3 and 4 were removing VC to below the detectable limit. The Village was no longer required to provide bottled water to its customers.

### 4.2 Potential Future Violations

#### 4.2.1 Deficient Firm Capacity

If Well 3 is not restored to operation, the current firm capacity of 0.98 mgd is insufficient to provide for the projected 2030 ADD of 1.14 mgd or 2030 MDD of 2.14 mgd. However, if Well 3 could be restored to service, the resulting firm capacity of 2.42 mgd would be sufficient to provide sufficient water capacity.
4.2.2  Vinyl Chloride Contamination
If the contaminated VC plume in Sauk Village’s groundwater aquifer remains in
the vicinity of the Village’s well intakes for years to come and vinyl chloride
removal is not provided at the treatment plants, then the VC MCL could be
exceeded in the future.

5.0  DETAILED DISCUSSION OF IMPROVEMENTS

5.1  Water Treatment Plant Improvements

5.1.1  Water Treatment Plant 1
The temporary air stripping units previously discussed in Section 4.1.2 are
currently in operation and removing VC to below the detectable limit. However,
the treatment system established is truly a temporary installation with equipment
resting on trailers; flexible piping; electrical cords lying on the ground; equipment
blanketed to achieve winterization; etc. In addition, the rental charges are cost
prohibitive for a long-term solution. Therefore, a permanent treatment system to
achieve VC removal is recommended, along with other improvements to WTP 1.
These improvements are shown on the preliminary process flow diagram and
proposed site layout in Appendix 4, and are summarized below:

• Installation of a containerized, prefabricated, low profile air stripping
  system. The air strippers will be low profile air strippers similar to the
temporary strippers currently installed, except that the proposed
strippers will include side-removable trays to help facilitate
maintenance. The system will include three 530-gpm capacity air
strippers, each with two stripping trays (expandable to four). Forced air
will be supplied by one 30 HP blower for each unit. Treatment
modeling predicts that these units will remove VC up to an influent
concentration of 20 ppb to a non-detect level. With the addition of two
additional stripping trays, these units will remove VC up to an influent
concentration of 750 ppb to a non-detect level.

• The air stripper effluent will collect in a sump located below the units,
  and will be discharged utilizing a VFD-driven pump. The pump’s VFD
will maintain level control by speeding up or slowing down the pump to
match the stripper effluent flow rate. The pump will re-pressurize the
flow, pumping the treated water either to the existing ground storage
reservoir, or to the existing high service pump station according to the
water distribution system demand.

• Replacement of the existing 1,000 gpm iron removal filter with a new
  1,600 gpm horizontal pressure filter. The filter will be designed to
achieve iron removal below the Illinois MCL of 1.0 mg/l at MDD
conditions with the other filter at WTP 2 out of service (firm capacity).

• Upsizing of the existing iron removal filter backwash tank to adequately
contain a full backwash cycle.
• Installation of a new standby power generator with automatic transfer switch to provide emergency power to WTP 1.

• Existing chemical addition of phosphate to sequester hardness; chlorine for iron removal pre-chlorination and post-treatment disinfection; and fluoride for dental health will remain operational.

• Installation of structures, piping, valves, controls, and appurtenances as required.

• Installation of lockable gates and perimeter fencing along the north side of the treatment buildings to completely enclose the facility with security fencing.

The aeration of the water downstream of the iron filters in the temporary air strippers resulted in a rapid buildup of iron and hardness on the air stripper trays, resulting in the need for a heavy cleaning of one of the strippers after only a few months of operation. To counter this, Sauk Village began feeding polyphosphate to sequester the iron and hardness. This has improved water quality as evidenced by compliments from residents received by Public Works staff. Furthermore, the new iron removal filters are expected to achieve additional improved water quality.

5.1.2 Water Treatment Plant 2

Improvements to WTP 2 are required to bring Well 3 back into operation to restore system firm capacity. These improvements are shown on the preliminary process flow diagram and proposed site layout in Appendix 5, and are summarized below:

• Installation of a containerized, prefabricated, low profile air stripping system. The system will include two 500-gpm capacity air strippers, each with two stripping trays (expandable to four). Forced air will be supplied by one 30 HP blower for each unit. Treatment modeling predicts that these units will remove VC up to an influent concentration of 21 ppb to a non-detect level. With the addition of two additional stripping trays, these units will remove VC up to an influent concentration of 847 ppb to a non-detect level.

• The air stripper effluent will collect in a sump located below the units, and will be discharged utilizing a VFD-driven pump. The pump’s VFD will maintain level control by speeding up or slowing down the pump to match the stripper effluent flow rate. The pump will re-pressurize the flow, pumping the treated water to a new high service pump station.

• Installation of a high service pump station to boost water pressure and transfer flow to the distribution system.

• Replacement of the existing 1,000 gpm iron removal filter with a new 1,000 gpm horizontal pressure filter. The filter will be designed to achieve iron removal below the Illinois MCL of 1.0 mg/l at MDD conditions with the other filter at WTP 1 out of service (firm capacity).
• Installation of a new, larger electrical feed, as required.

• Installation of a new standby power generator with automatic transfer switch to provide emergency power to WTP 2. Removal of the abandoned well motor drive.

• Existing chemical addition of phosphate to sequester hardness; chlorine for iron removal pre-chlorination and post-treatment disinfection; and fluoride for dental health will remain operational.

• Rehabilitation of the well building.

• Installation of structures, piping, valves, controls, and appurtenances as required.

5.1.3 Distribution System
Sauk Village recently authorized a leak detection survey to be performed. The project was awarded to Associated Technical Services, Ltd. for a cost of $12,672.00. The field work associated with this survey is scheduled to be completed by April 15, 2013. The leak detection survey report is scheduled to be completed by May 13, 2013.

Once the leak locations are identified by the leak detection survey, Sauk Village’s Public Works staff will begin to repair the defective infrastructure. The additional water billing income generated by the Village’s February 2013 water rate increase from $5.50/1,000 gallons to $7.50/1,000 gallons is projected to be about $60,000 per bi-monthly billing period. This additional income will fund the initial distribution system repairs.

If Sauk Village receives a $5,500,000 loan for the improvements to their water treatment plants and if the cost estimate for the project is accurate, Sauk Village’s water rate increase will be sufficient to pay the debt service from the loan and the additional operation and maintenance costs with an annual surplus of about $100,000. With this funding Sauk Village Public Works staff can replace about 400 feet of water main, 50 valves, or 25 fire hydrants each year.

After Sauk Village’s water loss rate has been reduced to an acceptable level, then the project to establish a second water main connection across I-394 will be considered. The estimated cost of this project is about $1,000,000. Therefore, within the timeframe of the loan repayment and with the Village’s projected annual surplus mentioned above, this project would require banking approximately 10 years of surplus income to fund the project. Outside of the PWSL debt service period, this project would be easier to fund.

5.1.4 Improvement Project Phasing
Given Sauk Village’s projected financial situation discussed above, a phased project approach is recommended.
**Phase 1 – Water Treatment Plant Improvements and Distribution System Repairs**

Phase 1 of the project will include water treatment plant improvements and distribution system repairs. Improvements to WTP 1 and WTP 2 can be constructed simultaneously under the same contract. The WTP 1 construction can occur with minimal disruption to the existing plant operation, with the exception of the iron filter replacement. Therefore, replacement of the WTP 1 iron filter will be conducted only once WTP 2 is operational. The treatment plant improvements are projected to be completed by summer 2014 (see project schedule in Section 6.3).

Distribution repairs will commence after completion of the leak detection survey, and will continue in the following years with the funding available until the water loss rate is reduced to an acceptable level.

**Phase 2 – Construction of Second Water Main Crossing**

Phase 2 of the project will involve construction of a second water main crossing I-394 to provide water supply redundancy and achieve looping of the system. This project will commence after Phase 1 of the project is completed when funding is available.

6.0 **DETAILED COST ESTIMATES AND PROJECT SCHEDULE**

6.1 **Projected Improvement Costs**

Below is an engineer’s opinion of probable costs for the proposed improvements.
<table>
<thead>
<tr>
<th>ITEM</th>
<th>WTP 1</th>
<th>WTP 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Air Stripping System</td>
<td>$625,000</td>
<td>$450,000</td>
</tr>
<tr>
<td>Air Stripping System</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Installation</td>
<td>$20,000</td>
<td>$10,000</td>
</tr>
<tr>
<td>Iron Filter</td>
<td>$400,000</td>
<td>$400,000</td>
</tr>
<tr>
<td>Iron Filter Installation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Backwash Tank Expansion</td>
<td>$50,000</td>
<td></td>
</tr>
<tr>
<td>High Service Pump Station</td>
<td></td>
<td>$300,000</td>
</tr>
<tr>
<td>Standby Generator</td>
<td>$100,000</td>
<td>$100,000</td>
</tr>
<tr>
<td>Standby Generator Installation</td>
<td>$10,000</td>
<td>$10,000</td>
</tr>
<tr>
<td>New Electrical Service</td>
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<td>High Voltage Electrical</td>
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</tr>
<tr>
<td>Low Voltage Electrical</td>
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<tr>
<td>Demolition</td>
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<tr>
<td>Piping, Fittings, and Valves</td>
<td>$75,000</td>
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<tr>
<td>Well Building Rehabilitation</td>
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<td>SCADA</td>
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<td>Structural</td>
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<td>$50,000</td>
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<td>Site Improvements</td>
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<td>$25,000</td>
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<td><strong>SUBTOTAL</strong></td>
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<td>Contingency (15%)</td>
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<td><strong>TOTAL ESTIMATED</strong></td>
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<td><strong>CONSTRUCTION COSTS</strong></td>
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<td>Design Engineering</td>
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<td>Construction Engineering</td>
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<td><strong>$2,984,000</strong></td>
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<td><strong>PROJECT COSTS</strong></td>
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<td><strong>TOTAL COMBINED</strong></td>
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<td></td>
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<tr>
<td><strong>PROJECT COST</strong></td>
<td><strong>$5,335,000</strong></td>
<td></td>
</tr>
</tbody>
</table>
6.2 **Projected Operation, Maintenance, and Replacement Costs**
Below is an engineer’s opinion of operation and maintenance costs (O&M) costs for the proposed improvements. These costs along with replacement costs are considered over the 20-year planning period to yield the operation, maintenance and replacement (OM&R) costs (see Appendix 6). Only costs incurred with proposed improvements that are in addition to existing equipment are considered in this analysis because the current water rate is sufficient for the OM&R costs associated with the existing water system.

<table>
<thead>
<tr>
<th>ITEM</th>
<th>TOTAL HP</th>
<th>TOTAL HRS/YR</th>
<th>ELECTRICAL RATE ($/KW-HR)</th>
<th>LABOR RATE ($/HR)</th>
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<tr>
<td>Stripper Sump Pumps - Electrical Cost</td>
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<td>3,650</td>
<td>$0.08</td>
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<td>$9,000</td>
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<tr>
<td>Annual Stripper Cleaning - Labor Cost</td>
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<td>16</td>
<td></td>
<td>40</td>
<td>$1,000</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td><strong>$23,000</strong></td>
</tr>
</tbody>
</table>

6.3 **Project Schedule**
The proposed project schedule for the treatment plant improvements is envisioned as follows.
<table>
<thead>
<tr>
<th>EVENT</th>
<th>COMPLETION DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Project Plan Submittal</td>
<td>1/31/13</td>
</tr>
<tr>
<td>IEPA Project Plan Review</td>
<td>2/28/13</td>
</tr>
<tr>
<td>Sauk Village Holds Project Plan/PEID Public Meeting and Receives Public Comments</td>
<td>3/26/13</td>
</tr>
<tr>
<td>IEPA Final Project Plan Approval</td>
<td>4/9/13</td>
</tr>
<tr>
<td>IEPA Construction Permit Application and Loan Application Submittal</td>
<td>4/15/2013</td>
</tr>
<tr>
<td>IEPA Construction Permit and Loan Application Review</td>
<td>5/15/2013</td>
</tr>
<tr>
<td>Project Bid and Award</td>
<td>7/15/2013</td>
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<tr>
<td>Loan Agreements Signed and Notice to Proceed Issued</td>
<td>9/15/2013</td>
</tr>
<tr>
<td>Air Stripper System Delivery</td>
<td>2/1/2014</td>
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<tr>
<td>Air Stripper System Installation</td>
<td>3/1/2014</td>
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<tr>
<td>Remaining Project Construction Complete</td>
<td>9/15/2014</td>
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7.0 REGULATORY COMPLIANCE
The proposed improvements will achieve compliance with the IEPA’s requirements for water quality and quantity, and will be designed and operated in accordance with 35 Ill. Administrative Code 651-654. Site design will comply with the Village of Sauk Village’s municipal code requirements and NPDES Phase II stormwater standards. Construction activities shall be in compliance with the IEPA’s General Permit for Construction Sites (ILR10).

8.0 ENVIRONMENTAL IMPACTS
Environmental sign-offs were applied for under the previous Project Plan submitted to the IEPA. Because the proposed project areas are unchanged with this new Project Plan, these sign-offs are included in Appendix 7, and are discussed below.

8.1 Historical and Cultural Resources
A sign-off from the Illinois Historic Preservation Agency (IHPA) was granted on 10/10/2012. This project will not impact any historical or cultural resources.
8.2 Recreation Areas, Wetlands, and Rare and Endangered Species
The Illinois Department of Natural Resources’ (IDNR’s) Ecological Compliance Assessment Tool (EcoCAT) was utilized to evaluate the impacts of this project on recreation areas, wetlands, and rare and endangered species. Correspondence from the IDNR indicated that adverse impacts are unlikely, and that consultation has been effectively terminated.

8.3 Construction in Floodways, Wetlands, and Stream Banks
According to the National Flood Insurance Program’s Flood Insurance Rate Map (FIRM) published by the Federal Emergency Management Agency (FEMA), the proposed project sites do not lie within a floodplain.

The National Wetland Inventory does not show wetlands within the project areas.

8.4 Air and Water Quality
Construction of the proposed project will potentially result in erosion. As surfaces are excavated, or heavy machinery is driven across them, dust and dirt that are normally anchored by vegetation are disturbed. This dust and dirt can then become airborne or waterborne. The airborne dust and dirt can cause environmental allergies, and in general is a nuisance to the surrounding areas. Waterborne dust and dirt can cause water quality problems by clogging catch basins, ditches, and elevating turbidity and suspended solids in natural waterways. Erosion also causes problems because topsoil is stripped and vital nutrients necessary for vegetation growth are removed.

There are ways to mitigate these problems. Construction site erosion control has seen major advancements in recent years through the implementation of Best Management Practices (BMPs). The simplest way to prevent erosion impacts is to prevent erosion from taking place in the first place. Measures such as erosion control blankets and stabilized construction roads can prevent erosion. However, inevitably some small amount of erosion will occur. To mitigate this, silt fences shall be installed around the perimeter of the construction site. This fabric will act as a barrier between the construction site and the surrounding areas to prevent eroded dust and dirt from escaping. Also, ditch checks and catch basin barriers shall be installed where necessary to prevent eroded materials from entering either the Village’s storm sewer collection system, which discharges to surrounding natural waterways. Instead, eroded materials will be contained within the construction site.

9.0 FINANCIAL ANALYSIS

9.1 Financial Schedule
Sauk Village intends to utilize the IEPA Public Water Supply Loan Program (PWSLP) for this project. The current funding limit for a loan processed through the PWSLP is $15,000,000 with a projected interest rate of 1.930%. Based on the Village’s financial capacity (see next section for discussion), Sauk Village intends to apply for a $5,335,000 loan to be repaid over a 20-year period. The additional annual cost to be incurred by Sauk Village for the PWSLP loan and extra operation, maintenance, and replacement costs resulting from the proposed improvements are detailed in Appendix 6.
9.2 Residential Rate Structure
The Village’s current water rate is $5.50 per 1,000 gallons. The average monthly water consumption is 9,345 gallons per customer. The current average monthly residential water bill is approximately $51.40.

The Village intends to repay the loan for the proposed project with proceeds generated from a water rate increase that will be implemented in February 2013. A copy of the Village’s water utility rate ordinance is provided in Appendix 8.

In addition to the initial infrastructure costs, the water rate must be increased to account for the additional OM&R costs of the new facilities. The water rate will increase 36% to $7.50 per 1,000 gallons (as shown in Appendix 8), resulting in an average monthly residential water bill of approximately $70.09. The water rate increase is projected to result in an additional $469,000 of water billings per year, which is sufficient for repayment of the loan principal and interest combined with the additional OM&R costs as calculated in Appendix 6.
Population Forecast

Census Population
Historically 1% growth

Projected Population
@ 1% growth

Population

<table>
<thead>
<tr>
<th>Year</th>
<th>Population</th>
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<tbody>
<tr>
<td>1970</td>
<td>7,000</td>
</tr>
<tr>
<td>1975</td>
<td>7,800</td>
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<td>1980</td>
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<td>2010</td>
<td>10,506</td>
</tr>
<tr>
<td>2015</td>
<td>12,819</td>
</tr>
<tr>
<td>2020</td>
<td>12,819</td>
</tr>
<tr>
<td>2025</td>
<td>12,819</td>
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<tr>
<td>2030</td>
<td>12,819</td>
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</tbody>
</table>
Village of Sauk Village
Water Quality Improvement Plan
Village Limits & Supply Well Locations

Legend
Water Structures
- Wells
- Village Limits
WTP IMPROVEMENTS - SAUK VILLAGE, ILLINOIS

WTP 2 - PROCESS FLOW DIAGRAM

LEGEND
- RAW WATER
- FILTERED WATER
- FINISHED WATER
- BACKWASH
- ELECTRIC POWER WIRING
- PROPOSED IMPROVEMENTS

PREPARED BY:

DATE: 1/24/2013
10339_02.PROC_Flow Diagram.dwg - WTP2
**Village of Sauk Village**

**20-Year Operation, Maintenance, and Replacement Cost Analysis**

**Water Treatment Plant Improvements**

| Interest Rate | 1.930% |
| Inflation Rate | 2.5% |
| Annual Operation and Maintenance Cost | $23,000 |
| Initial Cost | $5,335,000 |

<table>
<thead>
<tr>
<th>Year</th>
<th>Loan Repayment</th>
<th>O &amp; M Cost</th>
<th>Replacement Cost</th>
<th>Total</th>
<th>Notes</th>
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<tr>
<td>1</td>
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<td>$347,071</td>
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<td>$347,646</td>
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<td>3</td>
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<td>$50,000</td>
<td>$405,777</td>
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</tr>
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<td>$50,000</td>
<td>$410,840</td>
<td>Inspect filter interior, weld, and paint</td>
</tr>
</tbody>
</table>

**Total: $7,258,952**
IEPA Loan Applicant Environmental Checklist

Checklist must be signed by loan applicant's Authorized Representative (not engineering consultant)

ALL loan applicants must provide items 1 and 2 below – Items 3-6 are specific to conditions of project.

1) National Historic Preservation Act, Section 106 sign-off:
   Circle one:  Attached  OR  Date requested

   Circle one:  EcoCAT printout  DNR Letter  Date DNR consultation requested:

3)  Yes  No  Project involves construction in or near a stream bank (includes stream/river crossing), floodway and/or wetland.
   IF YES:  By signing below applicant certifies they will comply with the Rivers, Lakes & Streams Act.
   IF YES:  Comments from the Army Corps of Engineers are:
   Circle one:  Attached  OR  Date requested

4)  Yes  No  Project involves conversion of prime agricultural land to other uses.
   IF YES  -  Description and map of the area to be converted along with a discussion of the necessity of utilizing prime agricultural land for the project must be provided in planning.

5)  Yes  No  Project includes growth resulting in more than a 30% reserve capacity in the present or proposed service.
   IF YES  -  Prior to planning approval a detailed discussion in the planning documents must be provided documenting potential secondary impacts of the proposed project.

WASTEWATER PROJECTS ONLY

N.A.  6A)  Yes  No  Project is within jurisdiction of a Designated Water Quality Management Agency such as Chicago Metropolitan Agency for Planning (CMAP), Greater Egypt Regional Planning & Development Commission (GERPDC) or Southwestern Illinois Planning Commission (SIPC).
   IF YES  -  Comments from the appropriate agency regarding the project, growth projections and Facility Planning Area modifications (if applicable) are:
   Circle one:  Attached  OR  Date requested

N.A.  6B)  Yes  No  A change in the Facility Planning Area is proposed
   IF YES  -  Comments from Illinois Department of Agriculture regarding the FPA change are required:
   Circle one:  Attached  OR  Date requested

Specific contact information for the various offices and agencies which must be contacted, as well as the sources for further information, is detailed within the instruction guide for this checklist.

Signed:  
Loan Applicant's Authorized Representative

Date:  1/28/13
Illinois Historic Preservation Agency  
Attn: Joe Phillippe  
Preservation Services Division  
1 Old State Capitol  
Springfield, Illinois 62701

Subject: Village of Sauk Village – Water Treatment Plant Nos. 1 & 2 Improvements

Dear Mr. Phillippe:

On behalf of the Village of Sauk Village, Baxter & Woodman, Inc. is preparing a Project Plan for improvements to the Village’s two existing water treatment plants. The improvements include well rehabilitation, rehabilitation or replacement of iron removal filters, and construction of air strippers.

There are two project sites, located in Cook County, Sections 24 and 25, Township 35N, Range 14E in Sauk Village. There are no standing structures of historical significance within the proposed construction limits. Enclosed is a copy of a location map showing the water treatment plant sites.

Please call if you have any questions or require additional information in order to complete your review.

Very truly yours,

BAXTER & WOODMAN, INC.
CONSULTING ENGINEERS

Elisa P. Bonkowski, P.E.

EPB:csw

Enc.
I:\Crystal Lake\SAUK\V:\120468-Water Supply30-ReportStudy\Work\Project Plan\HPA sign-off request.doc
Illinois Historic
Preservation Agency

1 Old State Capitol Plaza • Springfield, Illinois 62701-1512 • www.illinois-history.gov

Cook County
Sauk Village
Between East Sauk Trail and 220th Street
Section:24-Township:35N-Range:14E, Section:25-Township:35N-Range:14E
IBPA LOAN
Water Treatment Plant #1 & #2 improvements

October 10, 2012

Elisa Bonkowski
Baxter & Woodman
8678 Ridgefield Rd.
Crystal Lake, IL 60012

Dear Ms. Bonkowski:

We have reviewed the documentation submitted for the referenced project(s) in accordance with 36 CFR Part 800.4. Based upon the information provided, no historic properties are affected. We, therefore, have no objection to the undertaking proceeding as planned.

Please retain this letter in your files as evidence of compliance with section 106 of the National Historic Preservation Act of 1966, as amended. This clearance remains in effect for two (2) years from date of issuance. It does not pertain to any discovery during construction, nor is it a clearance for purposes of the Illinois Human Skeletal Remains Protection Act (20 ILCS 3440).

If you are an applicant, please submit a copy of this letter to the state or federal agency from which you obtain any permit, license, grant, or other assistance.

Sincerely,

Anne E. Haaker
Deputy State Historic Preservation Officer
Applicant: Baxter & Woodman
Contact: Elisa P. Bonkowski
Address: 8678 Ridgefield Road
          Crystal Lake, IL 60012
Project: Sauk Village WTP No. 1 Improvements
Address: 2217 220th St, Sauk Village

Description: Construction of air stripper and iron filter equipment at the Village's WTP No. 1 to remove vinyl chloride and iron

Natural Resource Review Results

Consultation for Endangered Species Protection and Natural Areas Preservation (Part 1075)
The Illinois Natural Heritage Database shows the following protected resources may be in the vicinity of the project location:

Sauk Village Railroad Prairie INAI Site

Wetland Review (Part 1090)
The National Wetlands Inventory does not show wetlands within 250 feet of the project location.

An IDNR staff member will evaluate this information and contact you within 30 days to request additional information or to terminate consultation if adverse effects are unlikely.

Location
The applicant is responsible for the accuracy of the location submitted for the project.

County: Cook
Township, Range, Section:
35N, 14E, 25

IL Department of Natural Resources Contact
Tracy Evans
217-785-5500
Division of Ecosystems & Environment

Local or State Government Jurisdiction
IL Environmental Protection Agency
David Cook
1021 North Grand Ave East
P.O. Box 19276
Springfield, Illinois 62794-9276
Disclaimer
The Illinois Natural Heritage Database cannot provide a conclusive statement on the presence, absence, or condition of natural resources in Illinois. This review reflects the information existing in the Database at the time of this inquiry, and should not be regarded as a final statement on the site being considered, nor should it be a substitute for detailed site surveys or field surveys required for environmental assessments. If additional protected resources are encountered during the project’s implementation, compliance with applicable statutes and regulations is required.

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September 19, 2012

Elisa P. Bonkowski
Baxter & Woodman
8678 Ridgefield Road
Crystal Lake, IL 60012

Re: Sauk Village WTP No. 1 Improvements
Project Number(s): 1303714 [SAUKV 120468.30, 1303710]
County: Cook

Dear Applicant:

This letter is in reference to the project you recently submitted for consultation. The natural resource review provided by EcoCAT identified protected resources that may be in the vicinity of the proposed action. The Department has evaluated this information and concluded that adverse effects are unlikely. Therefore, consultation under 17 Ill. Adm. Code Part 1075 and 1090 is terminated.

Consultation for Part 1075 is valid for two years unless new information becomes available that was not previously considered; the proposed action is modified; or additional species, essential habitat, or Natural Areas are identified in the vicinity. If the project has not been implemented within two years of the date of this letter, or any of the above listed conditions develop, a new consultation is necessary. Consultation for Part 1090 (Interagency Wetland Policy Act) is valid for three years.

The natural resource review reflects the information existing in the Illinois Natural Heritage Database and the Illinois Wetlands Inventory at the time of the project submittal, and should not be regarded as a final statement on the site being considered, nor should it be a substitute for detailed site surveys or field surveys required for environmental assessments. If additional protected resources are encountered during the project’s implementation, you must comply with the applicable statutes and regulations. Also, note that termination does not imply IDNR’s authorization or endorsement of the proposed action.

Please contact me if you have questions regarding this review.

Tracy Evans
Division of Ecosystems and Environment
217-785-5500
Applicant: Baxter & Woodman
Contact: Elisa P. Bonkowski
Address: 8678 Ridgefield Road
          Crystal Lake, IL 60012

Project: Sauk Village WTP No. 2 Improvements
Address: Carolina Drive, Sauk Village

Description: Construction of air stripper and iron filter equipment at the Village's WTP No. 2 to remove vinyl chloride and iron

Natural Resource Review Results

Consultation for Endangered Species Protection and Natural Areas Preservation (Part 1075)
The Illinois Natural Heritage Database shows the following protected resources may be in the vicinity of the project location:

Sauk Village Railroad Prairie INAI Site

Wetland Review (Part 1090)
The National Wetlands Inventory does not show wetlands within 250 feet of the project location.

An IDNR staff member will evaluate this information and contact you within 30 days to request additional information or to terminate consultation if adverse effects are unlikely.

Location
The applicant is responsible for the accuracy of the location submitted for the project.
County: Cook
Township, Range, Section:
35N, 14E, 24

IL Department of Natural Resources Contact
Tracy Evans
217-785-5500
Division of Ecosystems & Environment

Local or State Government Jurisdiction
IL Environmental Protection Agency
David Cook
1021 North Grand Ave East
P.O. Box 19276
Springfield, Illinois 62794-6276

Page 1 of 2
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Privacy
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September 19, 2012

Elisa P. Bonkowski
Baxter & Woodman
8678 Ridgefield Road
Crystal Lake, IL 60012

Re: Sauk Village WTP No. 2 Improvements
   Project Number(s): 1303715 [SAUKV 120468.30]
   County: Cook

Dear Applicant:

This letter is in reference to the project you recently submitted for consultation. The natural resource review provided by EcoCAT identified protected resources that may be in the vicinity of the proposed action. The Department has evaluated this information and concluded that adverse effects are unlikely. Therefore, consultation under 17 Ill. Adm. Code Part 1075 and 1090 is terminated.

Consultation for Part 1075 is valid for two years unless new information becomes available that was not previously considered; the proposed action is modified; or additional species, essential habitat, or Natural Areas are identified in the vicinity. If the project has not been implemented within two years of the date of this letter, or any of the above listed conditions develop, a new consultation is necessary. Consultation for Part 1090 (Interagency Wetland Policy Act) is valid for three years.

The natural resource review reflects the information existing in the Illinois Natural Heritage Database and the Illinois Wetlands Inventory at the time of the project submittal, and should not be regarded as a final statement on the site being considered, nor should it be a substitute for detailed site surveys or field surveys required for environmental assessments. If additional protected resources are encountered during the project’s implementation, you must comply with the applicable statutes and regulations. Also, note that termination does not imply IDNR’s authorization or endorsement of the proposed action.

Please contact me if you have questions regarding this review.

Tracy Evans
Division of Ecosystems and Environment
217-785-5500
THE VILLAGE OF SAUK VILLAGE
COOK AND WILL COUNTIES, ILLINOIS

ORDINANCE
NUMBER 12 - 014

AN ORDINANCE AMENDING SECTION 53.01 (CHARGES) OF CHAPTER 53
(WATER), TITLE V (PUBLIC WORKS) OF THE VILLAGE CODE

LEWIS TOWERS, Mayor
DEBRA L. WILLIAMS, Clerk

ENOCH BENSON IV
DERRICK BURGESS
ROBERT CHAVEZ
DAVID HANKS
EDWARD MYERS
ROSIE WILLIAMS
Trustees

Published in pamphlet form by authority of the President and Board of Trustees of the Village of Sauk Village
ODELSON & STERK, LTD. - Village Attorneys - 3318 West 95th Street - Evergreen Park, Illinois 60805
VILLAGE OF SAUK VILLAGE
COOK AND WILL COUNTIES, ILLINOIS

ORDINANCE No. 12-014

AN ORDINANCE AMENDING SECTION 53.01 (CHARGES) OF CHAPTER 53
(WATER), TITLE V (PUBLIC WORKS) OF THE VILLAGE CODE

WHEREAS, the Village of Sauk Village, Cook and Will Counties, Illinois, is a non-home
rule municipality pursuant to the Illinois Constitution; and

WHEREAS, the Village of Sauk Village has certain police powers to enact regulations
for the health and safety of the residents of the Village and pursuant to its non-home
rule power, the Village has certain powers relating to its government and affairs; and

WHEREAS, the Village Sauk Village ("Village") owns and operates a waterworks and
sewerage system for the benefits of its residents; and

WHEREAS, the Illinois Municipal Code authorizes the Village to impose and collect
charges for the usage of the waterworks and sewerage system; and

WHEREAS, the Village water rates are not sufficient to cover expenses for the Village’s
current water system and therefore, the Village finds that it is necessary to raise water
rates to $5.50 per 1,000 gallons immediately in order to cover existing necessary costs
for the maintenance and operation of the Village water system; and

WHEREAS, the Village water system requires treatment to remove vinyl chloride
contamination and therefore, the Village finds that it is necessary to raise water rates to
$7.50 per 1,000 gallons effective six months from today’s date (February 14, 2013) in
order to cover necessary costs for the maintenance, operation and treatment of the
Village water system; and

WHEREAS, the Village President and Board of Trustees find that it is in the best
interest of the Village and its residents to amend Section 53.01 of the Village Code
regarding the charges for water provided through the Village’s waterworks system.

NOW, THEREFORE, BE IT ORDAINED by the President and the Board of Trustees of
the Village of Sauk Village, Cook and Will Counties, Illinois, as follows:

SECTION ONE. Recitals. The foregoing recitals are adopted as express findings of
the Corporate Authorities of the Village of Sauk Village and are incorporated herein by
specific reference.

SECTION TWO. That Title 5, Chapter 53, Section 53.01 is amended in its entirety to read as follows:
Sec. 53.01. – There is hereby established charges for water provided through the Village’s waterworks system as set forth in the following schedule:

Effective as of August 14, 2012 or as soon as implementation is possible under the Village billing system: $5.50 for each 1,000 gallons consumed.

Effective as of February 14, 2013 or as soon thereafter as implementation is possible under the Village billing system: $7.50 for each 1,000 gallons consumed.

SECTION THREE. If any section, paragraph, clause or provision of this Ordinance shall be held invalid, the invalidity thereof shall not affect any other provision of this Ordinance.

SECTION FOUR. Any ordinance or portion of any ordinance in conflict with any provisions of this Ordinance is hereby repealed solely to the extent of such conflict.

SECTION FIVE. This Ordinance shall be in full force and effect upon its passage, approval and publication in pamphlet form as provided by law.

ADOPTED this 14th day of August 2012, pursuant to a roll call as follows:

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TOTAL 5 1 1

APPROVED by the Mayor on August 14, 2012.

[Signature]  Lewis Towers, Mayor

ATTEST: [Signature]
Debra L. Williams, Village Clerk
STATE OF ILLINOIS
COUNTIES OF COOK AND WILL

CERTIFICATION

I, Debra L. Williams, do hereby certify that I am the duly qualified and elected Clerk of the Village of Sauk Village, Cook and Will Counties, Illinois, and that as such Clerk, I do have charge of and custody of the books and records of the Village of Sauk Village, Cook and Will Counties, Illinois.

I do hereby further certify that the foregoing is a full, true and correct copy of Ordinance No. 12-014, “AN ORDINANCE AMENDING SECTION 53.01 (CHARGES) OF CHAPTER 53 (WATER), TITLE V (PUBLIC WORKS) OF THE VILLAGE CODE,” adopted and approved by the President and Board of Trustees of the Village of Sauk Village, Illinois on August 14, 2012.

IN WITNESS WHEREOF, I have hereunto affixed my hand and the Corporate Seal of the Village of Sauk Village, Cook and Will Counties, Illinois this 14th day August, 2012.

__________________________________
Debra L. Williams, Village Clerk
Village of Sauk Village