

## **PUBLIC WORKS DIRECTOR REPORT**

### **Reporting Period:**

**Prepared By:** David Joyner, Public Works Director

**Date:** November 3, 2022

### **Administration**

The Public Works Administration team are progressively training our new refuse operator on Asset & Essentials and creating work orders and invoices for self-hauls at the land fill and refuse pick-ups. Public Works is working closely with Engineering firm KUNA, to develop a design for the new Lift Station project. We welcomed Kuna to the village this past month and started the discussion of design and construction.

The administration team is also working with EPS on shipping all our materials needed in keeping workflow moving forward for the Power Plant upgrade. Progress has slowed down with the monetary impact that the city has encountered. We are still making progress with what we are able.

### **Maintenance and Operation Division**

The Maintenance & Operations Division has been focusing on the preventive maintenance with city housing, government buildings and our U.S. Coast Guard caretaker responsibilities. With organizing and inventorying our materials and supplies; we are upgrading and repairing all possible opportunities we are able. This month we have repaired most of the locks and the doors in the city government buildings and the water well houses.

Part of our inventory and organization efforts include the moving of construction and electrical materials to different areas that are more suited to the utilization efficiency and climate of the storage areas. We are utilizing the Public works warehouse for electrical inventory and the wood and other housing and commercial building construction materials are being relocated to Polar Star building. This allows to keep the divisions separate efficiently and serves to protect some of the construction materials in a more suited climate.

### **Motor Pool Division**

The Motor Pool Division is continuing the repairs as needed to the City Vehicles and equipment as needed. The planning & scheduling is being handled by the Public Works Administrative Assistant. We are continually doing maintenance and repairs for business and local villagers on a work invoice per customer. A reminder to all the village that the city does not provide parts for the vehicles that work is requested. We only provide labor and the facility to do the work that is requested. All parts needed (oil, filters, etc.) will need to be purchased by the customer.

### **Bulk Fuel Utility**

Bulk Fuel had a visit from the Alaska Department of Environmental Conservation, which inspected our tank farm and fuel system at the city dock. The inspectors also did a joint spill drill with city employees and TDX SNP fuel. We deployed the fuel spill response boat and set boom in the water. The drill was a successful operation overall. The city tank farm over all was found to be in satisfactory condition with very little findings. The main finding was an inventory sheet that is due every six months. This was overlooked in July of this year as we are still replenishing from the fuel spill at the TDX SNP tank farm. It was noted by the Inspectors, that Marc Galanin showed good leadership during the spill drill in helping to direct and organize all the individuals that were involved in the spill drill.

The new mechanical registers have been ordered to replace the truck rack and one of the registers at the city dock. These registers will be replaced on the first of November. As of now we are using manual tank dip measurements at the truck rack. Our fuel levels are at a good level till spring fuel barge delivery.



### Electric Utility

The electric utility power plant upgrade is moving forward as we are starting to receive materials for the construction of the fuel room for the day tanks. This is allowing us to progress forward to the completion of the power plant upgrade.

# PROJECT OVERVIEW

TUE 4/19/22 - FRI 6/30/23

% COMPLETE

18%

#### MILESTONES DUE

Milestones that are coming soon.

Name	Finish
Fuel System	Fri 2/24/23
Fuel System Purchasing and Receiving	Fri 1/13/23
Fuel System Construction	Fri 1/27/23
Switch Gear Purchasing and Allocation	Tue 11/1/22
Construction Materials Purchasing and Allocation	Tue 1/3/23
Coolant System Design	Fri 11/25/22
Install Generators and Engines	Fri 2/3/23
Install Cooling System	Thu 3/2/23
Install Switch Gear	Thu 3/30/23
System Testing	Wed 4/5/23

The electrician has been moving forward with completing repairs and upgrades around the city. He has also completed the KANBAN report for the electrical materials needed. The electrician has been working on planning for repair and upgrade of electrical systems within the city buildings. We are getting a quote for a lineman to come to the island to assist in transformer replacements and high-power upgrades.

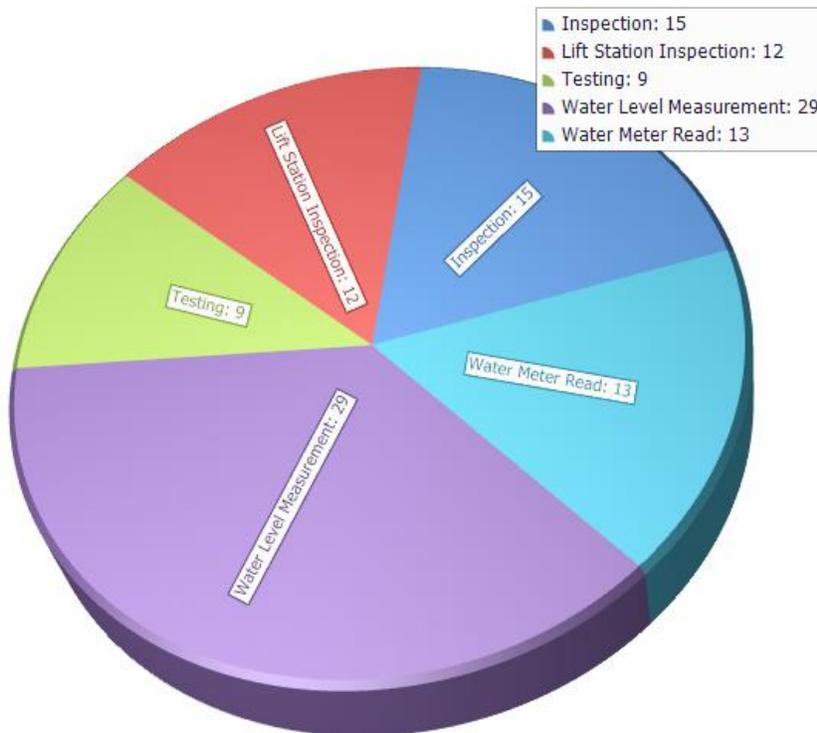


### Water/Sewer Utility

The Engineers and surveyors from Kuna engineering visited the island and took a survey of the location of the current lift stations and the possible future locations of the new lift stations. While here we discussed some types of materials to use for the construction of the lift stations. We also discussed possible equipment the city could lease and easements that might be needed for the construction of the lift stations and new sewer system upgrade.

We have the water tower repair scheduled for the week of the 31<sup>st</sup> until Nov. 4<sup>th</sup>. Kent Huschka from Wood Tank and Pipe will be on hand to complete the repair. Adrian Dirks will be working directly with Kent Huschka to complete the repair of the liner inside the water tower.





Below is the report and letter from the survey and corrective actions of our sewer and water systems.

## Sanitary Survey Deficiencies and Corrective Action Plan

### Significant Deficiencies

**Saint Paul Public Water  
System (AK2260286)  
September 29th, 2022**

Action plan responses are listed in **RED** beneath deficiencies. Plan created by *DEC RMW Theo Graber, Saint Paul Director of Public Works David C. Joyner, and water operator Adrian Dirks*  
DEC Leah Van Sandt's review comments in **blue**.

#### 1. Water Storage Tank Air Vent Not Screened (SCRN – SF001)

Finished Water Storage Tank#1's roof vent is not screened. Please install screen to prevent entry of possible contaminants.

The city has #24 mesh and the appropriate safety gear on hand and will coordinate an effort to scale the tanks and install a band of mesh around the vents to prevent contaminant intrusion.  
Due by September 30, 2023 – Extended due date to 9/30/2023 w/ comments – LVS 9/29/22

## 2. Water Storage Tank Air Vent Not Screened (SCRN – SF002)

Finished Water Storage Tank#2's roof vent is not screened and has holes that could possibly allow entry of potential contaminants. Please install screen and repair holes on the storage tank's roof vent.

The city has #24 mesh and the appropriate safety gear on hand and will coordinate an effort to scale the tanks and install mesh over the air vents to prevent contaminant intrusion. Due by September 30, 2023 - Extended due date to 9/30/2023 w/ comments – LVS 9/29/22

## 3. Well #1 Has Missing Bolts on Well Cap (SEAL - WL001) – CLOSED 9/29/22

The South Well#1 (WL001) has two missing bolts on the sanitary well cap. Please replace the missing bolts to ensure the well is properly sealed and watertight, thereby, protecting the well against entry of vermin or potential contaminants. Additionally, the surveyor indicated the check valve for this well is awaiting replacement at the time of survey inspection. Please notify our department when these have been corrected.

The missing bolts have been replaced and the well head is appropriately sealed. **Deficiency has been resolved.** Documented by RMW Theo Graber 9-9-2022

I now closed this deficiency in DEC SDWIS database w/ photo verification as of 9/29/2022 -LVS



## Well Pump Turns on But Trips the Breaker (PGOC – WL003)

Well #3 was not used at the time of the sanitary survey inspection due to electrical issues. It was reported that when the pump is turned on, it constantly trips the breaker shortly after. Both operators and electricians were determining the causes. Please correct this electrical issue with the well pump to get this well source back to proper operating condition.

The operators and public works crew will troubleshoot this issue and correct it. Due by September 30, 2023: Extended due date to 9/30/2023 w/ comments – LVS 9/29/22

#### **4. Inactive Well #6 Has Open Electrical Connection on Well Cap (SEAL – WL006)**

This inactive well needs to have the open electrical connection at the well cap to be sealed if it is going to be maintained as inactive well. If it is not going to be maintained as inactive well, it needs to be decommissioned.

**The operators and public works will seal the open connections and maintain this well as a backup in a safe and sealed condition. Due by September 30<sup>th</sup>, 2023.**

**Extended due date to 9/30/2023 w/ comments – LVS 9/29/22**

#### **5. Electrical Conduit Is Disconnected from the Well Cap (SEAL – WL007)**

While the electrical conduit is not attached, it leaves an opening and gap between the conduit and the well head. The electrical conduit needs to be completely attached to properly seal it.

**The operators and public works will re-attach and seal the conduit. Due by September 30<sup>th</sup>, 2023. Extended due date to 9/30/2023 w/ comments – LVS 9/29/22**

#### **6. No Well Vent Observed (WLSC –WL001)**

The surveyor noted that no well cap/casing air vent was observed on the South Well#1 (WL001). Air vents should also be screened. Well cap/casing air vents allow equalizing air into the casing to prevent casing vacuum when pump is running. Please ensure the well cap used is equipped with air vent. Provide photo verification of this corrective action to our department.

**The operators and public works will procure well vents and install them. Due by September 30<sup>th</sup>, 2023. Extended due date to 9/30/2023 w/ comments – LVS 9/29/22**

#### **7. No Well Vent Observed (WLSC –WL002)**

The surveyor noted that no well cap/casing air vent was observed on the Well#2 (WL002). Air vents should also be screened. Well cap/casing air vents allow equalizing air into the casing to prevent casing vacuum when pump is running. Please ensure the well cap used is equipped with air vent. Provide photo verification of this corrective action to our department.

**The operators and public works will procure well vents and install them. Due by September 30<sup>th</sup>, 2023. Extended due date to 9/30/2023 w/ comments – LVS 9/29/22**

#### **8. No Well Vent Observed (WLSC –WL003)**

The surveyor noted that no well cap/casing air vent was observed on the Well#3 (WL003). Air vents should also be screened. Well cap/casing air vents allow equalizing air into the casing to prevent casing vacuum when pump is running. Please ensure the well cap used is equipped with air vent. Provide photo verification of this corrective action to our department.

**The operators and public works will procure well vents and install them. Due by September 30<sup>th</sup>, 2023. Extended due date to 9/30/2023 w/ comments – LVS 9/29/22**

## **9. No Well Vent Observed (WLSC –WL004)**

The surveyor noted that no well cap/casing air vent was observed on the Well#4 (WL004). Air vents should also be screened. Well cap/casing air vents allow equalizing air into the casing to prevent casing vacuum when pump is running. Please ensure the well cap used is equipped with air vent. Provide photo verification of this corrective action to our department.

The operators and public works will procure well vents and install them. Due by September 30<sup>th</sup>, 2023. Extended due date to 9/30/2023 w/ comments – LVS 9/29/22

## **10. No Well Vent Observed (WLSC –WL005)**

The surveyor noted that no well cap/casing air vent was observed on the Well#5 (WL005). Air vents should also be screened. Well cap/casing air vents allow equalizing air into the casing to prevent casing vacuum when pump is running. Please ensure the well cap used is equipped with air vent. Provide photo verification of this corrective action to our department.

The operators and public works will procure well vents and install them. Due by September 30<sup>th</sup>, 2023. Extended due date to 9/30/2023 w/ comments – LVS 9/29/22

## **11. No Well Vent Observed (WLSC I–WL006)**

The surveyor noted that no well cap/casing air vent was observed on the unused Well#6 (WL006). Air vents should also be screened. Well cap/casing air vents allow equalizing air into the casing to prevent casing vacuum when pump is running. If this unused well is going to be maintained as a backup source, please ensure the well cap used is equipped with air vent. As applicable, provide photo verification of this corrective action to our department.

The operators and public works will procure well vents and install them. Due by September 30<sup>th</sup>, 2023. Extended due date to 9/30/2023 w/ comments – LVS 9/29/22

## **12. No Well Vent Observed (WLSC –WL007)**

The surveyor noted that no well cap/casing air vent was observed on the Well#5 (WL005). Air vents should also be screened. Well cap/casing air vents allow equalizing air into the casing to prevent casing vacuum when pump is running. Please ensure the well cap used is equipped with air vent. Provide photo verification of this corrective action to our department.

# Minor Deficiencies

## 1. No Certified Water Operator (CERT)

Saint Paul is classified as a Class 1 Water Treatment and Distribution public water system. This requires to have a Level 1 certified water operator. Currently, none of the water operators hold certification at the required level, although two current water operators have provisional small, treated water system certifications expiring 12/31/2024. This deficiency was also noted in previous sanitary survey inspection and remains unresolved. Please contact the DEC Operator Certification program, at phone 907-465-1139 or email [dec.opcert@alaska.gov](mailto:dec.opcert@alaska.gov), to get assistance and information on operator training and certification. Please notify our drinking water program once the current operators achieve the Level 1 operator certifications.

Operators Adrian Dirks and Monty Baker have both taken and passed the WT-1 exam and received provisional certification. Once their year of hours accumulate, they will receive their formal Level 1 Water Treatment certifications and be compliant. Due by September 30th, 2023. Noted into DEC DW database. -LVS 9/29/2022

## 2. Water Storage Tank Hatch Not Locked (STWL – SF002)

Finished Water Storage Tank#2's access hatch was not locked. However, the access ladder was locked. Treated water storage access hatch is required to be locked for security and to prevent potential entry of possible contaminants.

The Operators and Public Works will install locks on the doors. Due by September 30th, 2023. 3. Noted into DEC DW database. -LVS 9/29/2022

## 4. Water Storage Tank Leak Was Evident During Survey Inspection (LEAK – SF002)

A small water leak visible outside of the finished water storage tank #2 was detected during the survey inspection (see Tank B on the survey photo journal). The surveyor indicated the city was in contact with the firm that replaced the tank liner to find a viable solution. Please provide photo verification to our department once this deficiency is corrected.

The city is still negotiating with the contractor to repair the leak. Due by September 30th, 2023. Noted into DEC DW database. -LVS 9/29/2022

## 5. No Routine Testing Tag on Backflow Preventer in the Processing Plant (NCRM – DS001)

Backflow preventers are to be tested annually by qualified personnel to ensure they are working properly. It was noted on the survey report that the backflow preventer installed at the Trident Fish Processing plant did not have a service or inspection tag as proof of routine testing or indication of when it was last tested. Please arrange with the Fish Processing Plant administration to have this backflow preventer tested and provide a photo verification of tester-signed and dated inspection tag to our department. Noted into DEC DW database. -LVS 9/29/2022 The city will coordinate with Trident who will arrange for a certified backflow prevention device tester to come to Saint Paul and test and certify the device. Due by September

30th, 2023.

## Minor Deficiencies, continued

**Well Grouting (GSEA).** Our engineering section is reviewing the grouting of the annular space of all the well sources for Saint Paul public water system. Review is based on available well driller's information to determine if the following well sources have sufficient well grouting or if it can be approved for alternative method of grouting based on several factors such as the age of the well, historical lab results for total coliform monitoring, etc. Upon engineering review and determination, we will notify your public water system administration. For questions regarding the well grouting, you may contact Roy Robertson, P.E., 907-269-7631 or [roy.robertson@alaska.gov](mailto:roy.robertson@alaska.gov).

The following are considered minor deficiencies until either well grouting or alternate method of grouting is approved or if corrective actions to ensure appropriate grouting is completed for each well source.

6. **Well Grouting (GSEA - WL001)** - South Well#1, WELTS LOGID 20418
7. **Well Grouting (GSEA - WL002)** - North Well#2, WELTS LOGID 20419
8. **Well Grouting (GSEA - WL003)** - Fredrika 1 Well#3, WELTS LOGID 20415
9. **Well Grouting (GSEA - WL004)** - Fredrika 2 Well#4, WELTS LOGID 20416
10. **Well Grouting (GSEA - WL005)** - Fredrika 3 Well#5, WELTS LOGID 23263
11. **Well Grouting (GSEA - I-WL006)** - Fredrika 4 Well#6, WELTS LOGID 23264
12. **Well Grouting (GSEA -WL007)** - Fredrika 5 Well#7, WELTS LOGID 23265.

### 1. **Unused Well#6 Needs To Be Properly Maintained or Decommissioned (ABND – WL006)**

It was reported that Well #6 has not been in operation. If it is still going to be used in the future, it does need to be maintained and the electrical connection opening to the well needs to be properly sealed. If it is no longer planned for future use, it needs to be properly decommissioned in a manner that conforms to Appendix H of ANSI/AWWA Standard A100-97. If the well cannot be decommissioned as required under the standard, an alternative method must be approved through the engineering approval process. Please contact our department at 907-269-7653 to notify us of your intended use of Well#6 and arrange applicable course of action as described above.

### 2. **Well Pump Electrical Disconnect Lever Not Working (EWMP – WL004)**

Although the electrical wires appear to be maintained properly, the well pump electrical disconnect lever is not connected to the breaker and therefore, does not work properly. Please arrange to have this fixed and provide photo verification to our department.

**3. Record retention requirements** - According to 40 CFR 141.33, all PWSs are required to maintain records on site or at a convenient location near the premises for sample results, distribution system maintenance records and plans of the water system. Record retention requirements are outlined below.

Records to Keep	Period of Time Years
✓ Public Notices .....	3
✓ Actions to correction violations .....	3
✓ Bacteriological Analysis .....	5
✓ Chemical Analysis .....	10
✓ Sanitary Survey Reports .....	10
✓ Approval(s) to Operate .....	Recommended Indefinitely
✓ Maintenance/Repair Records .....	Recommended Indefinitely
✓ RTCR Sample Siting Plan .....	Until Superseded - Recommended Indefinitely

**City of Saint Paul Public Water System, Sanitary Survey Date 5/11/2021,  
PWSID#: 260286; Community Water System; Source(s): Groundwater.  
Sanitary Survey Response Letter and Report**

This letter is the follow-up to the sanitary survey conducted by Andres Benitez-Ospina on 5/11/2021, at the City of Saint Paul Public Water System. The Drinking Water Program received the sanitary survey on 6/14/2021. Based on the onsite inspection we have determined that your system has **13** significant deficiencies, **12** minor deficiencies, and **7** recommendations. Deficiencies, reminder(s) and recommendation(s), along with required action deadlines, are included in the enclosed deficiency list. Documentation with written verification that the listed deficiencies have been corrected (including photo documentation where appropriate) is required to close out the deficiencies.

Please be advised that any modifications to the drinking water system other than routine repairs must first be approved by the Drinking Water Program. Please contact one of our engineers before making any changes, to determine if you need to submit engineered plans for approval.

Drinking Water Regulations under 18 AAC 80.430 establish that Saint Paul Public Water System must have a sanitary survey conducted at least every 3 years. Your next sanitary survey will be during the calendar year of 2024. If you have any questions about this survey or its findings, please contact me at (907) 269-7653 or via email at

[leah.vansandt@alaska.gov](mailto:leah.vansandt@alaska.gov).

Sincerely,

Leah A. Van Sandt

Environmental Program Specialist

Drinking Water Program, Anchorage Office

Enclosure(s): 2021 sanitary survey report

## Refuse Utility

The Refuse department is continually using the flat bed for residential refuse pickups. This will be delayed for one more month as the new hydraulic pumps for the garbage truck should be in by the middle of November. The operator is in the process of organizing and cleaning the landfill, this includes the removal of the old landfill operator office. We are planning the construction of the new burn box, which construction should start this spring. The city clerk in conjunction with the director of public works is working on getting Refuse operator training scheduled as well as the refrigeration removal training scheduled. We have listed all the houses that may need to have appliances removed and placed in the Landfill. This notice will go out to the village within the next couple months.

