



Topic: Storm Water Management System Update
Presenter(s): Chris Lindquist, Director of Community Education; Karsten Anderson, Superintendent

Recommendation

This agenda item is for discussion purposes only, no board action is needed.

Background Information

Saint Francis High School (SFHS) is currently facing failures in two separate, original stormwater management systems: the **stadium system** and the **west parking lot / north drive lane system**. Both systems are over 50 years old, constructed with aging brick and mortar, and have reached the end of their operational lifespans.

Temporary measures have been deployed to ensure safety and continuity for recent and upcoming events, but comprehensive, long-term solutions are required.

Current System Status & Immediate Actions

1. West Parking Lot & North Drive Lane

This system consists of three manholes leading to "dry wells" (cisterns) fed by roof rain leaders.

- **Status:** The brick-and-mortar structures are crumbling. One dry well failed near the end of the school year.
- **Immediate Action:** A temporary repair was expedited to ensure safety for the Pioneer Days parade and graduation.
- **Long-Term Plan:** A permanent solution for this specific well will be integrated into the upcoming parking lot repaving project. The remaining two dry wells are scheduled for repair this fall, following the conclusion of the fall sports season, to align with the stadium infrastructure timeline.
- **Note:** A long term and likely costly solution will need to be implemented in the north, west, and south parking lots of SFHS.

2. Stadium Infrastructure

The stadium relies on approximately 12 dry wells that are in various stages of structural failure.

- **Status:** Four high-priority wells—two along the front of the home bleachers and two along the fence line—are failing. Early this summer, one well completely washed out, posing an immediate hazard.
- **Immediate Action:** SFHS contracted a team to inject structural grout into the washout to stabilize the soil and prevent further erosion.
- **Long-Term Plan:** This stabilization buys time to design a comprehensive, long-term stadium stormwater management plan, with implementation targeted to begin after the fall sports season.



Engineering Challenges & Potential Solutions

The primary engineering challenge for both areas is identifying where to direct and store the excess stormwater. Three potential solutions are under consideration:

Option	Pros	Cons / Constraints
Surface Retention Pond	Standard stormwater management.	Unfeasible; would require eliminating critical student practice fields.
New Large-Scale Dry Well <i>(Proposed near the equipment pole shed)</i>	Efficient footprint.	Highly dependent on the depth of the local water table.
Underground Retention System <i>(Sub-surface storage beneath the field)</i>	Preserves surface field space. For the above reasons, this may also need to be an option for the SFHS original parking lots when they are repaved.	The most capital-intensive option.

Next Steps: Data Collection



To determine the most viable and cost-effective long-term strategy, the district has authorized the following preliminary studies:

- **Soil Borings:** Core soil samples are being taken at six key locations to evaluate soil composition and water table depth.
- **Wetland Delineation:** A study is underway in the area north and east of the tennis courts and practice fields to establish environmental boundaries.

Data from these assessments will guide the final engineering recommendations and project budgets.