

Introduction

- **Problem:** In Calgary, storm drain blockages cause recent service requests related to water pooling near storm drains exceeding 1,000 [1].
- advanced sensors, to enhance infrastructure resilience and minimize public safety risks.
- public safety and economic efficiency, with potential savings in repair costs and traffic delays.
- sensors for prompt maintenance, precise data, and scalable solutions. Unlike competitors, we provide precise debris level measurements, enhancing data reliability and offering diverse client metrics.
- safer roads, and improve infrastructure reliability.



Storm Drain Basin Monitoring System













Our Dashboard creates sensor-specific graphs showing: ✓ Debris accumulation ✓ Water level

✓ Sensor status (clogged/open)

CONTACT:

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References:

[1] C. News, "Water pools near storm drains causing issues across Calgary," The Weather Network, https://www.theweathernetwork.com/en/news/weather/severe/city-tacklesmore-than-1-000-service-requests-as-water-pools-near-storm-drains



In the **dashboard**, the user will be able to select a basin unit by clicking the marker placed on that map.

Information about the sensor is provided, for example if its active or not.

- ✓ Past water levels
- ✓ Debris graphs for selected dates
- ✓ Sensor data from specific times
- ✓ Graphs will reflect data from the sensor chosen on the map.

