

PROJECT NOTICE

Lauderdale Flood Mitigation Project

JULY 2022

PROJECT OVERVIEW

The Lauderdale Flood Mitigation Project has been initiated to reduce the risk of flooding in the Lauderdale and area neighbourhoods. The project is currently in the preliminary design phase.

As part of the project, EPCOR will be constructing a dry pond in the Grand Trunk Off-Leash Dog Park. Dry ponds are drainage facilities which are designed to stay dry the vast majority of the time and only begin to collect water in large rain events when the stormwater system cannot handle the water volumes. During heavy storm events, the dry pond will act as storage facility. The water will then drain from the dry pond into the downstream stormwater system when there is capacity. The dry pond will help reduce pooling of water on the streets, flooding of manholes, and the risk of basement flooding.

Various storm infrastructure, including sewer separation east and south of the dry pond area, will also be installed or upgraded throughout the neighbourhood. Additionally, low impact development (LID) will also be considered throughout the project area as a method to increase storage and retention during storm events.

This project is part of EPCOR's Stormwater Integrated Resource Plan (SIRP) which aims to reduce the risk of flooding in Edmonton neighbourhoods and is funded in part by the Government of Canada's Disaster Mitigation and Adaptation Fund (DMAF).

COMMUNITY IMPACT

During dry pond construction, we expect to keep a reduced area of the dog park open for use, along with the parking lot, with safety measures in place for park users. The specific footprint and size of the dry pond within the dog park has not yet been determined; however, the facility needs to be designed to accommodate the future LRT alignment, the dog park access road and parking lot.

The size of the area able to remain open during dry pond construction will be based on the technical design requirements and community/dog park user feedback.

Once construction has been completed and landscaping established, the dry pond area **will return to its existing size and use** as part of the fenced Grand Trunk Off-Leash Dog Park - with enhanced amenities.

Construction of the dry pond and storm infrastructure upgrades work is anticipated to start in **2023**, after public engagement has been completed and final designs have been approved.

COMMUNITY ENGAGEMENT

We recognize the importance of the Grand Trunk Off-Leash Dog Park to the Lauderdale community and dog park users, as the off-leash dog park allows owners and their dogs to spend time together and allows dogs a space for play and socialization.

EPCOR is committed to working with the community and dog park users to develop an engagement approach that provides project transparency, a process to manage any questions or issues, and provides meaningful communication to residents.

Throughout the design stages of the project, EPCOR will be asking for feedback on enhancements to the dog park that will be intended to not only meet the diverse needs of small and big dogs, but also add amenities for dog owners.

We will be distributing surveys and hosting public information sessions at various stages of the project to provide an opportunity for residents to gain more information about the project, ask questions, identify concerns and issues and provide feedback on identified design elements of the project.

WHAT'S HAPPENING

To support the design of the dry pond, a geotechnical investigation is required to determine the soil types that are present below the ground surface. This activity will involve drilling boreholes along 127 Avenue, 129 Avenue, 109 Street and within the Grand Trunk Park and the Grand Trunk Off-Leash Dog Park.

Additionally, about 20 hydrovac excavations will be necessary to locate and identify existing underground infrastructure throughout the neighbourhood. A topographic survey will also occur throughout the project area.

Most work will be completed in public right-of-way, except for the Grand Trunk Park and the Grand Trunk Off-Leash Dog Park. Some excavation locations will be in grassy areas adjacent the sidewalks.

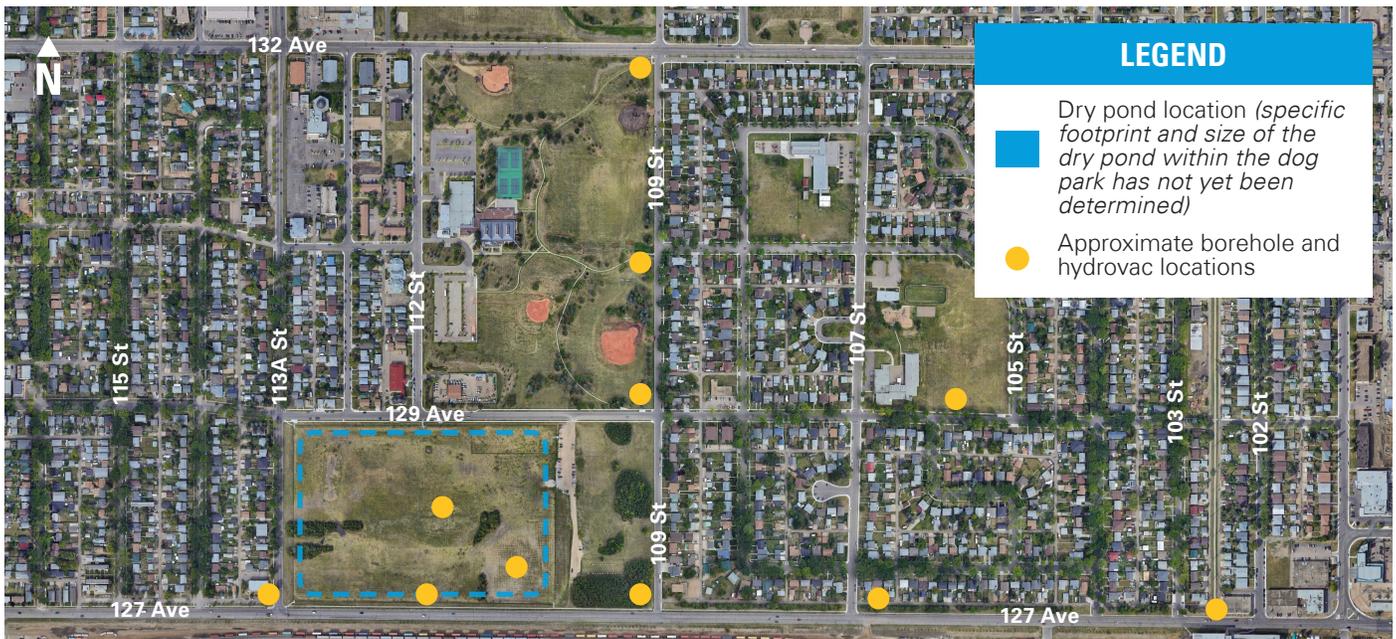
All affected landscaping, pavements, sidewalks and alleyways will be restored to their original condition. Impacted grassy areas will be restored using topsoil and sod.

The activities will involve:

- Excavating using a hydrovac truck
- Drilling boreholes using a truck-mounted drill rig
- Temporary steel plates on roadways, where required
- Backfilling and surface restoration of all test holes
- Surveying

During the geotechnical investigation, residents may experience general noise from the hydrovac trucks, and equipment used for drilling, excavation, and restoration.

MAP OF INVESTIGATION LOCATIONS



The specific footprint and size of the dry pond within the dog park has not yet been determined; however, the facility needs to be designed to accommodate the future LRT alignment, the dog park access road and parking lot. **During dry pond construction, we expect to keep a reduced area of the dog park open for use, along with the parking lot.**

TRAFFIC IMPACTS

During the geotechnical borehole drilling and hydrovac excavation, some lanes will be temporarily closed. Lanes will be closed as the work progresses and will reopen once the work has been completed in the area. At least one lane of traffic will be maintained at all times.

Some temporary sidewalk closures may be required where hydrovac locations are adjacent to sidewalks. Pedestrians will be directed safely around the work area.

IMMEDIATE DOG PARK IMPACTS

For the locations in the dog park, the trucks and equipment will need to access the locations from within the park itself. Temporary snow fencing will be installed around the boreholes and equipment during the borehole drilling. The excavated area will be backfilled and restored with a mixture of sand and clay. The fence will be removed and the turf will be restored using the material that was removed prior to the drilling.

All crews are aware of the high use of the dog park and will take extra care and caution to ensure safety for both dogs and dog owners.

SCHEDULE

The geotechnical investigation is scheduled to begin in **late July 2022** and is expected to be completed within **one week**, weather permitting.

The hydrovac excavation and surveying is anticipated to begin in **early August 2022** and is expected to be completed by **late August 2022**, weather permitting. Typical work hours will be **7:00 a.m. to 7:00 p.m., Monday to Saturday**.

The actual dry pond construction is anticipated to start in 2023 after public engagement has been completed and final designs have been approved.

SAFETY

The investigation locations will be barricaded and marked as a restricted area. We will take every precaution to ensure public safety. Please keep a safe distance from the investigation sites and the equipment. We thank you for your patience and understanding as we perform this necessary work.

PROJECT UPDATES

If you would like to receive updates on the Lauderdale Flood Mitigation Project, including opportunities to provide feedback, please send your email address to EPCORdrainage@epcor.com.

DOG PARK AMENITIES

As part of the Lauderdale Flood Mitigation Project, a large portion of the green space in the Grand Trunk Off-Leash Dog Park will be impacted. During dry pond construction, we expect to keep a reduced area of the dog park open for use, along with the parking lot, with safety measures in place for park users. *The size of the area able to remain open during dry pond construction will be based on the technical design requirements and community/dog park user feedback.*

Throughout the design stages of the project, EPCOR will be asking for feedback on enhancements to the dog park through surveys and public information sessions.

It is EPCOR's responsibility to build the dry pond and maintain the underground drainage infrastructure. However, the ownership and maintenance of the dry pond surface, vegetation and amenities is a City of Edmonton responsibility.

WE WANT TO HEAR FROM YOU!

As part of the project EPCOR is committed to enhancing features for dog park users, but we need your feedback.

Join us at the dog park for a public information session on:

July 23, 2022 from 11:00 a.m. to 2:00 p.m.

July 24, 2022 from 1:00 p.m. to 4:00 p.m.

August 9, 2022 from 3:00 p.m. to 6:00 p.m.

August 10, 2022 from 5:00 p.m. to 8:00 p.m.



Example of a dry pond from the Steinhauer & Ermineskin Flood Mitigation Project where the community chose soccer fields to be re-established.

COMMON QUESTIONS

Why is the project needed?

Lauderdale is serviced with a mix of combined sanitary and storm lines, and some separate storm lines. In a combined sewer, both sanitary and stormwater flow together in the same pipe. There is no stormwater management facility in the neighbourhood, and the current overland (or surface drainage system) is not sufficient. There are several areas in this neighbourhood that sag where water pools, which puts the Lauderdale community at risk of flooding during intense rainfall events.

Are dry ponds safe?

A dry pond is built with standard safety measures. The sides are typically gently sloped, anywhere from five to ten feet in horizontal length for every one foot of vertical drop. Hazard signs are installed to warn of the safety risk when ponds are wet.

Dry ponds are graded so stormwater pools in specific areas first. This helps keep the majority of the area dry and drains more quickly when they do become flooded. Water that does collect in a dry pond drains very quickly, often between one to three hours after a heavy rainfall.

Will the dog park be closed during construction?

During dry pond construction, we expect to keep a reduced area of the dog park open for use, along with the parking lot, with safety measures in place for park users. The size of the area able to remain open during dry pond construction will be based on the technical design requirements and community/dog park user feedback.

The specific footprint and size of the dry pond within the dog park has not yet been determined; however, the facility needs to be designed to accommodate the future LRT alignment, the dog park access road and parking lot.

MORE INFORMATION

EPCOR Drainage Services

Phone: (780) 509-8080

E-mail: EPCORdrainage@epcor.com

This project is funded in part by the Government of Canada.



Did EPCOR look at alternative locations for the dry pond?

Yes, we looked at several different dry pond location options; however, there is limited green space in Lauderdale. One of the alternative options that was considered was Grand Trunk Park. This area is not feasible from a technical perspective due to the major combined sewer line that runs directly underneath the park. Additionally, the City of Edmonton recently renewed several baseball diamonds and park trails, which includes a "no construction" restriction for a minimum of three to four years.

What can residents and dog park users expect during dry pond construction?

Residents and users can expect to see the contractor use a combination of excavators, loaders, skid steers, and tandem trucks, as well as other equipment. Details regarding traffic accommodations, construction impacts, and timelines will be provided in future notices as we get closer to the start of construction and confirm those details with the contractor.

What is Low Impact Development (LID)?

An LID facility is drainage infrastructure with landscaped features that reduce the volume, and slow the flow, of stormwater that enters the drainage system during and after a rainfall event. They achieve this by allowing rainfall to enter the ground and be filtered by soil so the stormwater is not all going directly into the underground system and overwhelming it.

BOOK A FREE FLOOD PREVENTION INSPECTION

Drainage systems in many Edmonton neighbourhoods are being improved to reduce the risk of flooding. Maintaining good drainage on your residential property is an important part of the flood prevention equation.

EPCOR can help you minimize the risk of flooding on your property from a heavy rain fall event. Book a free inspection with one of our flood prevention advisors to help identify individual property risks and recommendations to mitigate those risks. A subsidy for a backwater valve, which helps to protect your home from a sewer line back up, is also available.



Book online!

Book a free flood prevention inspection with one of our advisors online.

Contact us at floodprevention@epcor.com or visit epcor.com/floodprevention to learn more.