

What We Heard Report

Mitigating Flood Risk at the **Rossdale
Water Treatment Plant**

Phase Two Community Engagement

November 2022
epcor.com/floodprotection



BACKGROUND: PROJECT AT A GLANCE

Name	Mitigating Flood Risk at the Rossdale Water Treatment Plant
Phase	Phase Two Community Engagement
Timing	October 2021 – June 2022
Site	Rossdale Water Treatment Plant (9469 Rossdale Road Northwest, Edmonton, Alberta)
Engagement opportunity & information shared	<p>The project website (epcor.com/floodprotection) included the following project information and input opportunities:</p> <ul style="list-style-type: none"> ▪ Project newsletter ▪ Online survey ▪ Self-guided walking tour information ▪ Registration information for community workshops ▪ Community workshop handout <p>The following community and Indigenous engagement opportunities were held from September 2021 through June 2022:</p> <ul style="list-style-type: none"> ▪ Online community workshops ▪ Indigenous perspectives workshops ▪ Indigenous walking tours ▪ Archaeological monitoring ▪ Community-led engagement opportunity ▪ Small group meetings <p>In December 2021, a newsletter was mailed to residents in the surrounding communities (Rossdale, Downtown, Oliver, Garneau, Strathcona). In May 2022, a postcard was sent to residents reminding of engagement opportunities. As well, workshop opportunities were shared with local community leagues</p> <p>In January 2022, a newsletter was emailed to all Indigenous Nation and community representatives included within the project engagement plan.</p>

LAND ACKNOWLEDGEMENT

The banks of the North Saskatchewan River, where both Edmonton’s water treatment plants (E.L. Smith and Rossdale) are located, have been gathering places since time immemorial. The Rossdale Water Treatment Plant is located adjacent to Indigenous burial grounds. We respectfully acknowledge that this is Treaty 6 territory – the traditional lands of the Blackfoot, the Cree, the Dene, the Nakota Sioux, the Saulteaux, and later the Métis. EPCOR acknowledges this history and values the perspectives of those with traditional ties to these lands.

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PROJECT BACKGROUND

EPCOR is taking action to protect the water supply for people in Edmonton and more than 65 surrounding communities in the event of a major flood, while also partnering with local neighbourhoods on flood resilience. We want to limit potential damage to the facilities and resume water treatment as quickly as possible. More than 1.3 million people rely on this water every day.

Both of Edmonton's water treatment plants (E.L. Smith and Rossdale¹) are located in the floodplain of the North Saskatchewan River, where they bring untreated water out of the river, treat it, and then pump safe, clean drinking water to homes and businesses. As these locations present an increased chance of flooding, we have a plan to protect Edmonton's drinking water supply. By taking action now, we can manage the risk associated with a major flood and ensure

Did you know? This work is being supported by more than \$21 million in grant funding through the Alberta Community Resilience Program and the Government of Canada's Disaster Mitigation & Adaptation Fund.

that customers receive clean, safe and reliable water service as soon as possible after a flooding emergency.

We're planning for the future at the water treatment plants. Part of that

planning involves looking at changes in weather trends. Over the next 30 years, climate change modelling predicts that extreme weather will be more frequent and air temperatures will increase. For the North Saskatchewan River, this is expected to lead to higher flows in the winter and spring, with earlier or multiple spring runoff periods (caused by melting snowpack), and lower flows during the summer and fall.

Preparing the two water treatment plants for a major flood event will include three kinds of work:

1. Increasing protection to critical assets, or relocating them.
2. Preventing river water from backing up into the water treatment plants through drainage pipes that discharge to the river.
3. Developing barriers to protect critical equipment and drinking water reservoirs if the river overtops its banks.

¹ While the information contained in this report is specific to Rossdale, we are also planning for the future at the E.L. Smith Water Treatment Plant. As the timing and scope of the work needed to protect the Rossdale Water Treatment Plant from the impacts of a major flood differs from what is needed at E.L. Smith, we have chosen to separate our summary of community engagement at each plant into their own reports moving forward.

For more information about the community engagement work done to date at the E.L. Smith Water Treatment Plant, please refer to the E.L. Smith-specific What We Heard Report (for Phase 2 and subsequent phases).

The first two categories of work will generally take place within existing buildings on both plant sites and within the existing fence lines. The third category of work (installing flood barriers) will take place on the fence line and be visible to those living, working and recreating around the Rossdale and E.L. Smith plants.

COMMUNITY CONTEXT

ROSSDALE

The Rossdale Water Treatment Plant is located at 9469 Rossdale Road in Edmonton's North Saskatchewan River Valley on Treaty 6 territory. The facility is a well-known historical site in the heart of the city. The Rossdale site has been providing water and power to Edmonton and its surrounding areas for more than 100 years.

A City of Edmonton recreational trail parallels the water treatment plant fence line to the east and south. The North Saskatchewan River curves along the east and south sides of the plant. On the west side of the plant is the Walterdale Bridge, the Rossdale powerplant, and an Indigenous memorial park.

The plant is bordered to the north by Rossdale Road and to the east by the Rossdale neighbourhood. Across the river are a number of City of Edmonton recreational trails, and the Garneau and Strathcona communities. The area around the project area includes a mixture of single-family homes, apartment buildings, commercial businesses, parks and public facilities.

INDIGENOUS NATIONS & COMMUNITIES

We recognize that the Rossdale Water Treatment Plant is located next to Indigenous burial grounds. As such, it was important to EPCOR that we seek out, hear, and include the perspectives of Indigenous Nations and communities with an interest in these lands.

In addition to our discussions with those who live near and recreate around the water plants, we have engaged 32² Indigenous Nations and communities with an interest in these lands and will continue these conversations throughout this project.

² At project commencement there were 31 Indigenous Nations and communities included. In January 2022 another community was added to those EPCOR has engaged.

EPCOR is aligning with the principles of OCAP®³ (Ownership, Control, Access, Possession) for this work, and continues to work with participating Knowledge Keepers and Indigenous Nations and communities to ensure protocols are in place for appropriate management of the Indigenous knowledge that is shared.

We are committed to respecting and protecting archaeological resources throughout our project design and construction processes. All ground disturbance work at the plant will undergo review and approval by *Alberta Culture, and Status of Women*. Any plan that disturbs the ground or vegetation will consider the Indigenous heritage of our sites and how we will incorporate proper ceremony, mitigation of impact and restoration.

We are committed to ensuring that Indigenous Nations and communities are involved in monitoring any ground disturbance work required during this project; that we've appropriately considered the historical context and need for ceremony; and that opportunities are equitable, safe and effective. Furthermore, our monitoring principles were developed in conversation with Indigenous Nations and communities, and reflect our desire to learn from these groups about their preferences for engaging through Indigenous monitors.

The Rosssdale plant is located in the area where multiple iterations of Fort Edmonton were located. The reasons this site was attractive to the people who built the Fort there were the same reasons that Indigenous Peoples had used the area as a meeting and trading ground since time immemorial. Today, EPCOR's Rosssdale site includes the Rosssdale Water Treatment Plant, the Rosssdale and Bellamy Substations, and other EPCOR-owned facilities.

We recognize the archaeological and historical significance of the site; the importance of this area in fostering communities predates the City of Edmonton itself. As such, we are committed to preserving the heritage and history of Rosssdale, providing more open and public space and minimizing impacts to the community.

DECISION-MAKING

EPCOR makes project decisions by considering a number of factors, including technical requirements, environmental impacts, costs to water ratepayers, and community input. Community input will be used alongside these other considerations for the project to select designs that are aligned with community values, are suitable for the Rosssdale Water Treatment Plant site, and are mindful of costs to water ratepayers.

³ OCAP® is a registered trademark of the First Nations Information Governance Centre. Learn more at <https://fnigc.ca/ocap-training/>.

This public and Indigenous engagement process was done to the **Refine** level in our public engagement framework, which means that **we sought community and Indigenous input to help us improve the quality of the project design.**

We will ensure that community and Indigenous feedback is directly reflected in the project design and share how participant input influenced the final design through these What We Did & What We Heard reports.

TIMELINE

As shown in the table below, community and Indigenous engagement is ongoing and will continue throughout this project. At this time, we anticipate construction to begin in 2024. While we will engage with the community and Indigenous Nations and communities to ask for specific input at the stages noted on the timeline, we are committed to working with community members throughout the planning and construction of these necessary flood barriers.

Preliminary Design		
Phase One	May – September 2021	Community and Indigenous engagement about early concepts to understand what should be considered in the design process for the flood barriers.
Phase Two	October 2021 – June 2022	Community and Indigenous engagement about refined options for the flood barriers, including further conversations about potential community amenities to include in the flood barrier area.
Phase Three	Planned for fall 2022	Community and Indigenous engagement about the selected designs.
Detailed Design		
Phase Four	2023	Community and Indigenous engagement on the detailed design of the flood barriers. This will include discussions about the specific barrier treatments, landscaping plans and any potential amenities.
Construction		
Phase Five	2024-2027	Ongoing communication with the community and ongoing communication and engagement with Indigenous Nations and communities about construction plans , impacts and timing.
Complete!	2027	Community event to celebrate completion of the water treatment plant flood barriers.

HOW WE COMMUNICATED, ENGAGED & WHO PARTICIPATED

The following section provides an overview of the community and Indigenous engagement process, how it was supported with communications and who choose to participate.

ENGAGEMENT OVERVIEW

In June 2022, we wrapped up our second phase of community engagement for this project. We heard from participants through a variety of formats, including collaborative workshops, surveys, emails, and one-on-one conversations.

Indigenous engagement activities for this project take a holistic approach and offer multiple pathways for Indigenous Nations and communities to participate. For these reasons, it is difficult to assign engagement activities to discrete phases. We have heard from Indigenous participants in many ways, including online workshops, in-person tours, emails, phone conversations, monitoring activities, ceremonies and telephone surveys.

In the first phase of engagement for this project, we showed the community early concepts of the flood barriers, and asked what we should consider in the design process for the flood barriers. The goal for that phase of engagement was to hear from participants about how they experience the areas where flood barriers are needed to protect the two water treatment plants, and how EPCOR can improve these experiences through project design, while being mindful of costs and environmental footprint.

In this second phase of engagement, we shared designs for the Rossdale Water Treatment Plant that were refined based on

Community engagement for this project has been ongoing since May 2021. This report highlights the second phase of community engagement for this project, which took place from **October 2021 through June 2022**.

For readers interested in learning more about our community engagement efforts prior to September 2021, a summary of the first phase of community engagement is available on our project webpage at epcor.com/floodprotection.

Over the upcoming years, EPCOR will continue to work with those connected to the Rossdale Water Treatment Plant to understand how we can best integrate these flood barriers into the community and existing landscape.

the feedback received during Phase 1⁴. The goals for this phase of engagement were to:

- Confirm what was heard during Phase 1 engagement from participants about how they want the barriers to look and feel (design considerations).
- Identify community interests, perspectives, experiences, issues, and key considerations relating to the flood barriers.
- Brainstorm additional considerations for the project team to evaluate while designing the flood barriers.

During these conversations, we asked participants **how they use and value the areas** where permanent flood barriers are needed in Rossdale and **what EPCOR should consider** as we select designs for the flood barriers needed to protect the Rossdale Water Treatment Plant in a flood event.

COMMUNICATION ACTIVITIES

We employed a number of tactics to communicate information about the project to community members, Indigenous rights holders and other parties interested in the area around the Rossdale Water Treatment Plant. This included posting project information and input opportunities on our project webpage at epcor.com/floodprotection (also accessed through the Rossdale Water Treatment Plant website at epcor.com/rossdale), including:

- Project need and scope
- Phase 1 (early design concepts) What We Did & What We Heard Report
- Map showing location of planned flood barriers
- Types of flood barriers
- Flood barrier design considerations
- Current engagement activities
- Community newsletters

The project webpage also included descriptions and links to the following engagement activities for Phase 2 (refined design concepts):

- Self-guided walking tour documents (including a map)
- Online community survey
- Registration information for the online and in person workshops

In addition to posting information online, EPCOR mailed a project newsletter by unaddressed mail to addresses in the communities surrounding the water treatment plant, including:

⁴ For more information about what we heard from participants in Phase 1 (Early Design Concepts) and how we used that input, please refer to the Phase 1 What We Did & What We Heard Report located on the project webpage at epcor.com/floodprotection

- Rosedale
- Downtown
- Oliver
- Strathcona
- Garneau

This newsletter was mailed to more than 40,000 people and included information about the following:

- An overview of the flood protection project
- EPCOR’s role in flood protection
- What we heard during conversations in Phase One (May - September 2021) of our engagement
- How that feedback was used to inform project details
- Refined flood barrier design options for around the Rosedale Water Treatment Plant
- How you can work with us to improve the project design
- Next steps for the project

A newsletter, including the information described above, but presented slightly differently, was also emailed to consultation office representatives of the 32 Indigenous Nations and communities that EPCOR is engaging with on the project.

Details about each of the communication activities are noted in the table below.

Communication Activity	Interaction
Project webpage (<i>Rosedale-specific content at Protecting the Rosedale Water Treatment Plant from Flooding on epcor.com</i>)	Web content at epcor.com/floodprotection specific to Rosedale included information about the options for flood barrier design, look and feel
Project Newsletter and follow-up postcard*	<p>Mailed to participants located near the Rosedale Water Treatment Plant and those who opted into our mailing list (online at epcor.com/rosedale)</p> <ul style="list-style-type: none"> ▪ Unaddressed mail: More than 40,000 each (newsletter and postcard) <p>Emailed to Indigenous Nation and community representatives included in EPCOR’s project engagement plan. Newsletter content was adapted for this audience and included links to the online survey (a postcard was not sent as follow-up)</p>

Communication Activity	Interaction
	<ul style="list-style-type: none"> ▪ Consultation office representatives from 32 Indigenous Nations and communities
Community-Led Engagement Graphic Assets	<p>Emailed artwork (jpgs) for Indigenous Nations and communities to post on their social media platforms, inviting their representatives to provide feedback (via the survey)</p> <ul style="list-style-type: none"> ▪ Consultation office representatives from 32 Indigenous Nations and communities
Archaeologist Summary Video (1)	<p>Recorded presentation by Stantec archaeologist summarizing activities related to monitoring program to share during virtual community update sessions, and other scheduled viewing sessions. (Refer to engagement activity table for distribution.)</p>
Direct emails	<ul style="list-style-type: none"> ▪ Emails sent to consultation office representatives from 32 different Indigenous Nations and communities. Email was the main form of communication to notify of opportunities to engage. ▪ Emails sent to the Indigenous Nations and communities to share the post card advertising the Rossdale public workshops in May 2022 ▪ A small number of direct emails to special interest groups
Direct phone calls	<ul style="list-style-type: none"> ▪ Over 50 follow up calls to Indigenous Nation and community representatives ▪ A small number of follow up calls to individuals who reached out to EPCOR

ENGAGEMENT ACTIVITIES

This section is broken into public engagement activities and Indigenous engagement activities.

Public Engagement Activities

We held a number of small group discussions with the Rossdale Community League in early 2022 to discuss the project and understand community concerns. During those conversations we heard a number of questions about flood risk and resiliency – specifically relating to concerns from Rossdale residents about the potential impact of a major flood on their personal properties.

In response to these questions, we hosted an online information session in May 2022 where we shared information about the resources (in place and in development) available to understand flood risks, and address them at a property, neighbourhood, and community level. These resources were also shared with community members on our website and in all subsequent conversations.

In response to the feedback provided by the Rossdale Community League, we held an in-person workshop at the Rossdale Community Hall to answer questions about community flood resiliency and discuss the early design concepts for Rossdale. These online and in person sessions were complemented by an online survey that provided respondents with an opportunity to share feedback on design considerations for Rossdale as well as the E.L. Smith Water Treatment Plant. We also connected with individual community members through email and phone.

These conversations provided participants with opportunities to learn about why this work is needed and provide feedback about what EPCOR should consider as we select designs for the flood barriers needed to protect the Rossdale Water Treatment Plant in a situation where the North Saskatchewan River overtops its banks.

During these conversations, EPCOR shared information about:

- What we heard in phase 1 engagement
- Where the water treatment plant flood barriers will be located
- Possible types of flood barriers around the water treatment plants and how these different types of barriers impact the location
- Resources that are available to understand flood risks, and address them at a household, neighbourhood, and community level

During these activities, participants were asked to provide responses to key discussion questions, focussed on understanding:

- Additional feedback to build on what we heard in phase one about how the community uses and values the area where the flood barriers will be built
- What type of flood barriers community members would like to see in select locations around the plant
- Which design considerations are important for EPCOR to consider while building flood barriers in these locations

- What type of amenities community members want to see incorporated into the design of the flood barrier at each location

The feedback shared by participants in these sessions was used to confirm what was heard during the first phase of engagement and help EPCOR further understand how the community uses and values the areas where the flood barriers will be built. It also helped EPCOR understand community preferences for the type of flood barrier that is constructed in two locations along with design considerations in the areas where flood barriers will be constructed and the reasons for these preferences.

Participation and interest in these engagement opportunities included 3 participants attending the online session and 11 attending the in-person session. It is worth noting that these events took place during the COVID-19 pandemic, as well as the Stanley Cup playoffs when the Edmonton Oilers were in contention, which we expect contributed to this low engagement. We experienced higher levels of participation from members of the public through our online survey. This indicates to us that online surveys are a tool that works for community members and, as such, will continue to be used on this project.

What we heard in response to the questions we asked throughout our engagement activities is included in the following section. Participation numbers for each of the engagement activities are noted in the table below.

Engagement Activity	Participation
Rossdale Online Information Session (1)	3 participants
Rossdale In-Person Session (1)	11 participants
Rossdale Community League Meetings (3)	Between 5 and 14 participants
Community Online Survey (1)	96 respondents
Self-Guided Walking Tour Survey (1)	5 participants
Edmonton Water Community Advisory Panel Meeting (1)	8 participants
Online Event Follow up Surveys (Rossdale) (1)	2 respondents
1:1 Conversations (email and phone)	14

Indigenous Engagement Activities

Indigenous engagement activities for the project take a holistic approach, offer multiple pathways to engage and dynamically reflect ongoing feedback. For instance, inclusion of the

Virtual Protocol and Ceremony Discussion and Ceremony were based on direct feedback from Indigenous Nations and communities.

During phase two Indigenous engagement activities, EPCOR continued to share information about the project and provided participants with opportunities to share feedback, preferences and concerns about the planned flood barriers and asked what opportunities for Indigenous inclusion should be considered at each flood barrier location and for the project as a whole.

- What we heard in phase one Indigenous and public engagement
- Where the water treatment plant flood barriers will be located
- Possible types of flood barriers around the water treatment plants and how these different types of barriers impact the location

During these activities, participants were asked to provide responses to key discussion questions, focussed on understanding:

- Additional feedback to build on what we heard in phase one about how the community uses and values the area where the flood barriers will be built
- What type of flood barriers and materials are preferred at specific locations
- What opportunities for Indigenous inclusion should be considered at each flood barrier location and more broadly on the project

The feedback shared by participants in these sessions was used to confirm what was heard during the first phase of engagement and help EPCOR further understand how Indigenous Nations and communities use and value the areas where the flood barriers will be built. It also helped EPCOR understand preferences for the type of flood barriers to be constructed and materials for these barriers, as well as important design considerations.

What we heard in response to the questions we asked throughout our engagement activities is included in the next section. Indigenous engagement activities that occurred during phase two of the project, along with participation numbers are included in the in the table below.

Indigenous Engagement Activity	Participation
Indigenous Perspectives Online Workshops (4) (Content was gathered under the principles of OCAP® to support Walking Tour outcomes. For this reason, input gathered through this activity is excluded from the feedback section of this report.)	11 Knowledge Keepers and Elders, and 3 helpers representing 6 different Indigenous Nations or communities whose traditional territories EPCOR operates within.
Indigenous Walking Tours (4)	33 people representing 17 different Indigenous Nations or communities whose traditional territories EPCOR operates within.

Indigenous Engagement Activity	Participation
Virtual Community Update Sessions (4) (March sessions included viewing of archaeologist summary video from Utility Locate monitoring.)	28 people representing 12 different Indigenous Nations or communities (November 2021). 31 people representing 11 different Indigenous Nations or communities (March 2022).
Online Survey (community-led engagement) (1)	0 respondents
One-on-one meetings with EPCOR	Requested by 4 Indigenous Nations and communities.
Engaging through Indigenous Monitors (2)	7 representatives from 6 Indigenous Nations participated as monitors for 2- or 3-day shifts 23 representatives from 16 Indigenous Nations or communities participated as monitors for 2-day shifts (Utility Locate Monitoring, February and March 2022)
Virtual Protocol and Ceremony Discussion (1)	8 Elders and Knowledge Keepers, and 6 support staff (who attended only in a support role, not as active contributors) from 6 Indigenous Nations and communities provided guidance to EPCOR regarding appropriate protocol and/or Ceremony related to ground disturbance activities and an incident. (May 2022)
Ceremony (1)	32 representatives from 6 Indigenous Nations and communities participated in/attended a Pipe Ceremony and feast at Rossdale as recommended by Elders and Knowledge Keepers during the Virtual Protocol and Ceremony Discussion. (June 2022)

PARTICIPANTS

During the engagement activities detailed above, we talked to a number of community members about how the necessary flood barriers around the Rossdale Water Treatment Plant will look and be experienced by those who live, work and recreate in the areas around the facility, as well as rights-holders and Indigenous Nations and communities with an interest in the areas around the facility. We heard from a number of community members who shared their perspectives on which design considerations are important for EPCOR to consider while building flood barriers around Rossdale. We heard from:

- Property owners
- Residents
- Indigenous Nations and communities
- Members of the public
- Community leagues
- Elected officials
- Government agencies
- EPCOR employees
- Other interested parties

We have also been coordinating our planning and design efforts with other projects underway in the area, including the City of Edmonton's Ribbon of Green, River Crossing and Touch the Water project teams.

WHAT WE ASKED & HEARD

We have compiled and assessed all the perspectives, suggestions, and comments we have received from residents, members of the public, organizations, other interested parties and Indigenous Nations and communities. As described earlier in the report, we began by asking participants to describe how they use and value the area around the Rossdale Water Treatment Plant in the initial phase of engagement on this project. In this second phase, we wanted to understand and appreciate **the perspectives of community members** along with **what considerations were important for EPCOR to include in our selection process** for flood barriers to protect the Rossdale Water Treatment Plant.

Generally speaking, the majority of respondents told us that they are attracted to the area for various recreational and transportation uses including biking, walking, running, and/or enjoying the natural state of the area. Indigenous participants referenced many histories and stories of the area, and the area's historical and contemporary significance to Indigenous peoples. We heard that access to the river and plants is important and that harvesting remains an important activity in the area. Respondents also told us that preservation and enhancement of the ecology of the area were priorities.

EPCOR took the opportunity in this phase to ask about specific design considerations including incorporating art, education, space for community gathering and other amenities. Respondents

provided a variety of input on these topics, though it should be noted that the majority of participants in this engagement phase emphasized that designs and plans for the four Rosssdale locations should align with the existing character of Rosssdale. EPCOR should also provide space and amenities for community gathering, allowing the public to move through, use and enjoy the area. Indigenous participants prioritized the natural area and the need to preserve and enhance the ecology of the area as important design considerations. Respondents also indicated that access to the river, harvesting and gathering areas was important. We heard that art should be from Indigenous artists and that Indigenous peoples and histories of the area should be honoured and shared in different ways on and near the flood barriers.

A summary of what we heard from residents, members of the public and other interested parties in response to each of the key questions that we asked during the second phase of engagement (refined design concepts) is included below. A summary of the feedback received during engagement with Indigenous Nations and communities connected to the plant site follows in a subsequent section.

ADDRESSING NEIGHBOURHOOD FLOOD RISK

During conversations with the Rosssdale community, we heard a number of questions relating to the impact of the project, and EPCOR's role as a neighbour in the community. Community members told us it is important for EPCOR to address these larger concerns before engaging on flood barrier design. To summarize these concerns:

1. What is EPCOR doing to support flood protection for the community as a whole?
2. How is EPCOR ensuring that the proposed flood barriers will not adversely affect nearby homes in the event of a major flood?
3. What are the approval processes for the funding and project overall, and how can community members get involved in those processes?

A key commitment of our plans to protect the Rosssdale Water Treatment Plant is that the flood barriers will not worsen flooding in the surrounding neighbourhood or negatively impact nearby homes. EPCOR relies on hydraulic modelling from the provincial government, which is based on work by the United States Army Corps of Engineers. The modelling, as confirmed by a third-party consultant, shows that there would be no change in the water level across the flood plain or water flows around Rosssdale due to the treatment plant flood barriers.

PARTNERS IN FLOOD RESILIENCE

EPCOR also has programs in place to help mitigate the impacts of both rainfall and river-related flooding.

To manage flood impacts to residential and commercial customers in Edmonton, including the Rosssdale neighbourhood, EPCOR has developed the Stormwater Integrated Resource Plan (SIRP). SIRP is a 20-year, \$1.6-billion plan that includes a variety of actions to slow, move, secure, predict and respond to flooding in Edmonton neighbourhoods. For more information about SIRP, visit epcor.com/floodmitigation.

As part of efforts to help residents protect their properties from the impact of a major flood, we have actively promoted our Homeowner Flood Prevention Program. This includes a free Flood Prevention Program available to residents in the City of Edmonton. Our flood prevention advisors are available to help residents identify their individual property risks and options to mitigate those risks. A backwater valve subsidy is also available to eligible properties. For more information, visit epcor.com/floodprevention.

We are also committed to helping protect our neighbours. In the event of a severe flood from the river overtopping its banks, the City of Edmonton and Alberta Environment and Parks would activate their Emergency Operations Centre. EPCOR would work with our partners during the response, and ensure that safe, clean water remains available to help with response and recovery efforts.

PUBLIC FEEDBACK

The following responses were gathered from residents, members of the public and other parties interested in the Rossdale Water Treatment Plant, during community workshops, small group meetings, one on one conversations and the online survey.

We have also included anonymous participant quotes pulled from the online survey. EPCOR has aimed to reflect themes and summarize participant input from the community engagement activities in a manner that captures the essence of what was shared. Any errors or omissions made in this summary report are based solely on our interpretation and analysis of that input.

Understanding Area Use & Value

[What is your connection to the Rossdale Water Treatment Plant?](#)

The majority of those who participated in our various engagement activities for Rossdale indicated that they recreate in the area around the water treatment plant or live in the area.

[How do you currently use and experience the areas where flood barriers are needed to protect the Rossdale Water Treatment Plant in a major flood event? What activities are you engaged in around the plant?](#)

In response to this question, community members confirmed what EPCOR heard during the first phase of engagement on this project, sharing that they value the area most for recreation (such as walking/ running, cycling, and dog walking on the North Saskatchewan River) along with general enjoyment of nature (including viewing the river and green space) and transportation.

Preferences for Flood Barrier Types (in Select Locations)

There are five key locations around the Rossdale Water Treatment Plant that need permanent flood barriers. A combination of grass-covered embankments and flood walls will be built around the plant to meet technical requirements, reduce the impacts to vegetation and minimize the cost to rate payers. These are shown on the map below.



In the newsletter mailed in December 2021 as well as the online survey, we asked participants to share their preferences for which type of flood barrier we construct in three locations (locations 2, 3 and 4). After mailing this newsletter, the project team determined that a flood wall was necessary at location 4 in order to meet engineering requirements. As a result, community preferences were only gathered for locations 2 and 3 during subsequent conversations. As

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feedback was not gathered consistently about location 4, details about the responses that we did receive are not included in this report.

That said, the responses we did initially receive indicated a preference for the flood wall:

- 29% preferred a back filled wall
- 62% preferred a flood wall
- 8% had no opinion

At locations 2 and 3 we asked participants what kind of barrier they preferred. We provided them with renderings and cross sections of how the different barrier designs would look. The three primary options explored were a grass embankment, a flood wall and a combination of the two.

We shared the map shown above and asked community members to consider:

- Which type of barrier would they prefer in each location – and what do they like about it?
- Which type of barrier option do they least prefer in each location – and what don't they like about it?
- What else should we consider as we select what type of flood barrier to build in each location?

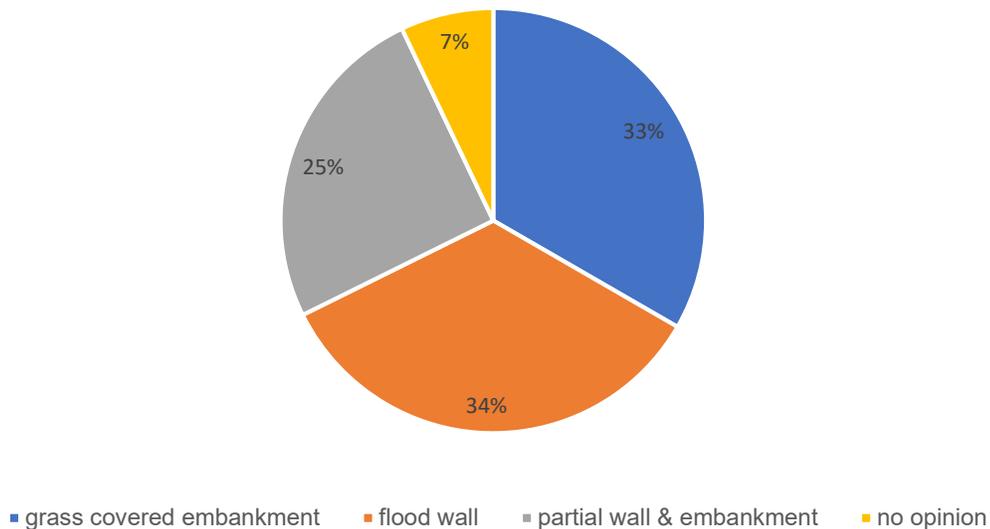
The feedback that we received is summarized below and grouped according to each location.

Location 2 – East of Drinking Water Reservoirs

This flood barrier will be located east of the water treatment plant facing the Rossdale neighbourhood. Between the flood barrier and the multi-use trail along 101 Street, there is currently a grassy space with trees.

For this location we asked participants if they preferred a grass-covered embankment, flood wall, or partial wall and embankment for the flood barrier. The responses were relatively evenly distributed between these options.

Community Preference for Barrier Type at Location 2



In addition to asking participants which type of barrier they preferred, we also asked why they preferred the option that they chose. The following summarizes their responses according to each flood barrier type option presented east of the drinking water reservoirs:

Grass covered embankment:

- Most participants who preferred the grass covered embankment said they liked it because it looked more natural and would blend in better with the natural environment. They noted that felt it was less destructive to the area, less institutional in appearance, and in general contained less concrete. A small number of participants said that they preferred this option because it could be used for recreation. Two participants preferred it because it would allow for more diverse foliage to be planted, and one participant thought it would make a more effective barrier. A small number of people said that they preferred an embankment to the other options because it looked nicer, and there is “less opportunity for hiding behind the wall”.
- A small number of participants said that they didn’t like the grass covered embankment because they didn’t like the appearance of the fence, and that it didn’t blend in.

Flood wall:

- Most participants who preferred the flood wall shared that they thought it looked better and provided more space for recreation. Some noted that they thought the flood wall looked cleaner and tidier than the grass embankment. They also mentioned the desire to have recreational amenities in the space, and some requested walking paths on top of the wall. Other comments were that the flood wall would be easier to maintain, better for dealing with melting snow, provide more space for art and murals, offer more options for

a diversity of vegetation, create more space, be cheaper, and blend in better. Some also mentioned that they thought bricks look nice.

- Those who strongly opposed having a wall mentioned that they felt it created a sense of separation in the space, that they look more institutional, and that “they are the visual equivalent of a “keep out” sign”.

Partial wall with an embankment:

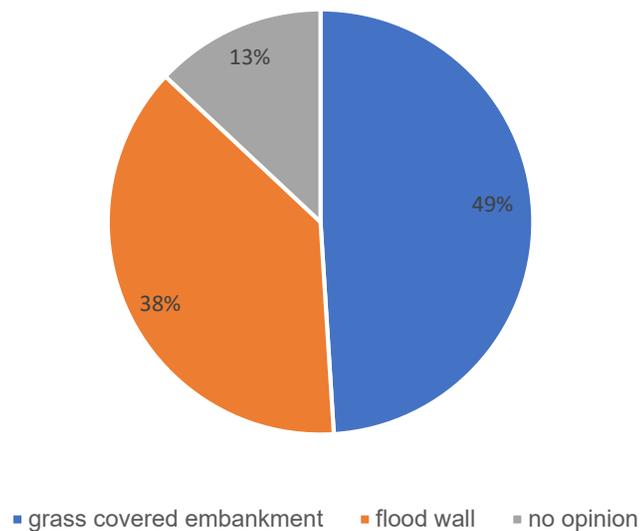
- Those who preferred the partial wall with an embankment said they thought it looked nicer. Some said they thought it was tidier, less institutional in appearance, and more natural. Several people also thought that it would be more versatile and better for recreation. A couple people said they liked it because it minimized the amount of fence, and a few said they thought it integrated better with the natural landscape of the river valley.

Location 3 – East of Water Treatment Plant

This flood barrier will be located east of the water treatment plant, near Fire Station No. 21. Between the flood barrier and the multi-use trail along 101 Street, there is currently a grassy space with trees and landscaped beds.

For this location we asked participants what kind of barrier they preferred: grass covered embankment or flood wall. While a small majority of people indicated that they preferred a grass covered embankment in this area, a large number of participants indicated their preference for a flood wall.

Community Preference for Barrier Type at Location 3



In addition to asking participants which type of barrier they preferred, we also asked why they preferred the option that they chose. The following summarizes their responses:

Grass covered embankment:

- A large portion of people preferred the grass covered embankment because they said it looked better, was more natural, less destructive to the area, and less institutional in appearance. Some also said that they thought it blended in better with the surrounding environment and architecture. One person thought that a higher fence would help to prevent vandals, another that it would be more effective as a barrier. A couple people suggested that foliage other than grass also be planted. And a handful of people commented that they wanted to use it for recreation and liked having open space that was easily accessible.

"Maybe you can put up a small walk path where you can feature the different neighborhoods surrounding the Water Plant and it will not look like the plant is separated by a wall from the community but is an integral part of the community."
- Those who were opposed to the grass option mentioned that they did not like fences, and that it didn't blend in.

Flood wall:

- Most participants who preferred the flood wall for this location shared that they felt it looked better, was tidier and cleaner, and blended in better with the surrounding environment. One person mentioned that they thought the bricks blended well with the water plant. Several thought that it would be more versatile, and better for recreation and amenities. A number liked it because it provided more level, flat space than the embankment. Some mentioned they thought it would provide more space for art, murals, and design, more options for vegetation, and better flood protection.
- A small number who voiced their opposition to the flood wall said they thought it was institutional and uninviting and was a potential target for vandalism.

Design Considerations for the Flood Barriers

During our first phase of engagement, we heard from participants that there are a number of considerations that we should include when designing how these necessary flood barriers will look and be experienced by those using the areas around the two water treatment plants. During this phase of engagement, we presented three potential design considerations to participants for feedback and asked participants to share their perspectives and preferences about these considerations. These design considerations included:

- *Education and history:* adding educational or historical features to the area and honoring Indigenous connections to the site.

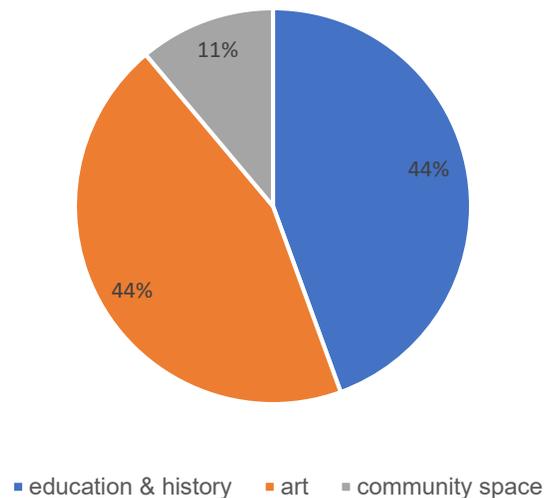
- *Art*: adorning the area with local or Indigenous art, murals or sculptures.
- *Community space*: adding features that foster a welcoming or flexible space. Supporting recreational use of the area.

Participants were asked about which out of the three design considerations were most important to them. In the online survey they were asked to select up to two options. The following summarizes the responses of participants to the online survey, along with a smaller number of in person responses that were more open ended.

Location 1 (North of Drinking Water Reservoirs)

North of the drinking water reservoirs (location 1), participants shared that community space, education and history are most important for EPCOR to consider in designing how the necessary flood barriers will look and feel. More specific comments for this location included the desire for the history of the site to include the architecture, and for the art to be tied to the history of Rossdale.

Community Preferences for Design Considerations at Location 1 (North of Drinking Water Reservoirs)



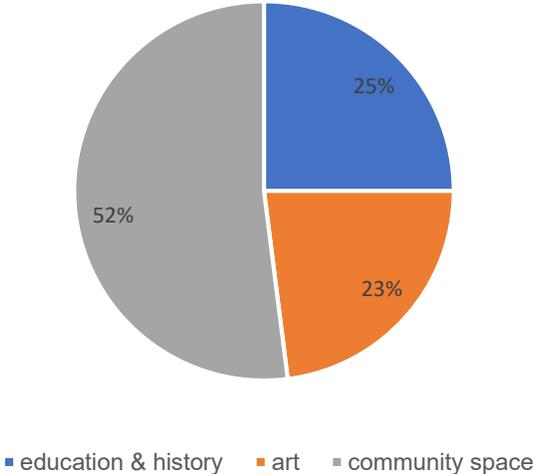
Locations 2 & 3 (Near Rossdale Community)

In the areas directly adjacent to the Rossdale community (locations 2 and 3 on the map), we hear that community space is important to participants. Several participants suggested that the design incorporate organic architectural elements from the surrounding environment. There were also suggestions to arrange tours of the area, incorporate play elements such as hopscotch on the pavement, a leave a lock bridge like in Paris, and to incorporate “classic lamps post lighting that feels signature to the history of the neighbourhood”.

Relating to education and history, there were some specific suggestions to include both settler and Indigenous history, and to include information about the historic fairgrounds. There were also suggestions to have signage that interprets the local flora. Other suggestions were to include photos of old and new Edmonton.

For art and culture someone offered an example of the “Mother Earth Calling” statue already in the community as something they’d like to see more of. Another suggestion was to incorporate art that highlights the green space, enhancing peace of mind in the city, and encouraging contemplation of our history. Other suggestions were for murals, sculptures, Indigenous art, and interactive sculptures for kids.

Community Preferences for Design Considerations at Locations 2 & 3 (Near Rossdale Community)

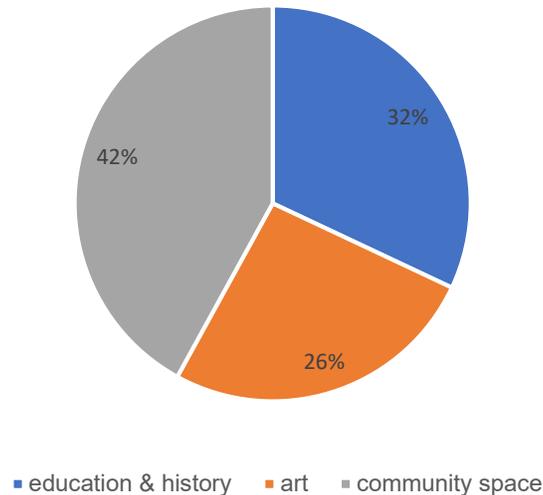


Locations 4 & 5 (Facing the River)

Along the river (locations 4 and 5), participants suggested that community space, education and history were most important to consider when designing how the flood barriers look and feel. As almost all the suggestions that were provided in locations 2 & 3 (see above) were also repeated for locations 4 & 5, they have not been duplicated here for the sake of brevity.

Specific suggestions for education and history included that colour should be used that blends into or highlight the architecture.

Community Preferences for Design Considerations in Locations 4 & 5 (Facing the River)



Brainstorming Amenities

We also asked participants to share ideas for amenities they would like to see incorporated into the design of the flood barriers at Rossdale.

Location 1 (North of Drinking Water Reservoirs)

No suggestions for amenities were received for location 1 (north of the drinking water reservoirs).

Locations 2 & 3 (Near Rossdale Community)

In the areas directly adjacent to the Rossdale community, the most common suggestions for amenities were for seating, such as benches and picnic tables; running, walking, and biking paths; and green space that includes natural vegetation. Someone asked that consideration be given to proper drainage for the tables and benches. Another person asked for better access between the community and Rossdale Road.

There were also suggestions for a host of other amenities that are outside the scope of this project, including: washrooms, garbage and recycling receptacles, lighting, playground, barbeques, covered areas, bicycle facilities such as lock ups and pump tracks, outdoor exercise equipment, water fountains, drinking water, community gathering space, fruit trees, community gardens, off the leash dog park, restaurants, and dog amenities.

Eighteen people said they wanted to keep the area as simple and natural as possible, integrating the natural flora, and avoiding any disruption to the river valley eco system. They also noted that they wanted to eliminate the chain link fence and barbed wire.

A handful of people were concerned about the budget, and suggested money be saved and the design be low maintenance.

One person said they wanted EPCOR relocate the plant to north of 97th Ave between Rossdale Road NW and return the land to City to establish the entire area south of 97 as a park.

Locations 4 & 5 (Facing the River)

The most common suggestions for the locations along the river were for seating and paths. Similar suggestions were repeated as were made for locations 2 & 3. Some unique suggestions were for flowers, trees, and shrubs to be included as vegetation in addition to grass. There was also a suggestion to include a boat launch.

Additional Suggestions

Participants also shared additional suggestions for amenities that didn't fit under a particular location. One of these that came up several times was to ensure that EPCOR not clutter the area, because it is quite narrow, and there needs to be adequate space for people on the paths to safely move through the area. One suggestion to help with this was to ensure signs and art are kept off the trail, so as not to create any blockages when people stop to look at them.

We also heard a suggestion to separate transportation lanes from recreation to avoid congestion. Another participant shared their idea that Rossdale should be turned into a park or build a two-lane tunnel from the road that would also be a berm to protect the community, with bike lanes on top. Another requested that EPCOR ensure colours blend in to reflect current architecture and aren't distracting for people moving through the space.

Someone suggested that the history of the baseball field be included in any signage.

INDIGENOUS FEEDBACK

As discussed previously, Indigenous engagement takes a holistic approach, adapting engagement activities based on ongoing feedback. With multiple pathways for participation, not every engagement activity seeks to answer specific engagement questions. For instance, monitoring activities are a way for EPCOR to engage with community members but these activities do not include specific questions for participants to respond to.

For reference, the engagement questions that have been asked so far include:

1. What might the proposed flood barriers look and feel like?
2. How can we minimize impact to the land?
3. What are the most important things for EPCOR to think about as the proposed flood barriers are designed?
4. How can we honour the ways that you, your community, your Nation and ancestors connect or connected with the land and water around the Rosssdale Water Treatment Plant?
5. How can we increase understanding of and celebrate the traditional and historical significance of these areas for EPCOR and the public?
6. Envision the project being complete. How are you, your Nation, your community and non-Indigenous peoples interacting with the spaces around the proposed flood barriers?

Feedback and responses were gathered from Indigenous Nation and community representatives interested in the Rosssdale Water Treatment Plant, during in-person walking tours, virtual information sharing and guidance seeking workshops, monitoring activities and one on one conversations.

Direct quotes included in the table below come from virtual information sharing workshops and in-person walking tours. However, similar themes were observed in one on one conversations and monitoring activity feedback. Because some themes emerged across more than one question, we have grouped responses by theme, rather than question, shown in the table below.

To facilitate interpretation of the preferences portion of the table, a map from the Indigenous Walking Tours is included below. It is important to note that at the time of the first Indigenous Walking Tours, on-site signage for the virtual community walking tour was not yet installed. Stop of interest numbers from the walking tours do not align with flood barrier locations indicated in the virtual community walking tour and differ from those included in the January 2022 project update newsletter. The following map should be used when referencing stop numbers recorded in the table below.



Map showing point of interest stops at the Rosedale Water Treatment Plant for Indigenous Walking Tours held in October 2021, April 2022 and May 2022

Themes and participant quotes from Indigenous engagement activities that took place from September 2021 through June 2022 are included in the table below. Preferences are not presented in chart form since not all feedback recorded by note-takers during the walking tours had individualized attributions and there is the possibility that some feedback may have been recorded by more than one note-taker (with some in float roles).

Theme	Quote or supporting participant evidence
Understanding area use and value	
Allow for interaction with the land	“At this spot maybe there could be opportunity for Ceremony. A place for families to gather, enjoy the river valley and pick berries.” (Rosdale #3 and 4)
Harvesting opportunities	Community members harvest berries and medicines.

Theme	Quote or supporting participant evidence
<p>Concerns over tree removal</p> <p>Replanting should occur</p>	<p>“What happens to trees that are removed? (Rosssdale #3 and 4)”</p> <p>“We would like to be consulted on the types of trees/shrubs that are replanted.”</p> <p>“Highbush cranberries - all along river. Grow well here. Can eat berries and make jam. Inner bark (cambium layer) is used for medicines. Red willow is from here used in pipes. Commercial cedar bush is not from here.” (Rosssdale #4)</p> <p>“Cedar, maple, chokecherry, aspen, spruce, juniper and willow.” (for replanting. Rosssdale #3)</p> <p>“Plant trees instead of spending on wall design.”</p>
<p>Consideration for Environment</p> <p>Importance of Water</p>	<p>““We need to be careful of our natural resources...in this area in Edmonton much of this area has been disturbed. As much as can be saved and brought back (should be – in relation to trees). It is important that we do this.”</p> <p>“Check with the water tables to make sure there are no issues (due to the piles). Water tables are so delicate.”</p> <p>“The water should be very important to all of us. Feeds everything that we eat...The water is sacred.”</p>
<p>Flood Concerns</p>	<p>“Consider impact of flood on neighbourhood. Where does the water go?”</p> <p>“Is EPCOR prepared to mitigate against flooding that could happen before construction in two years?”</p>
<p>Many histories and stories of the areas</p>	<p>“Plaques, benches that say this is treaty territory. Telling stories of the area to people.”</p> <p>“We want to be the people sharing the story.”</p> <p>“This was a Sundance area.” (North of reservoir)</p>
<p>Importance of Treaty</p>	<p>“Historical sites are to be protected by the Nations under Treaties.”</p>

Theme	Quote or supporting participant evidence
Design considerations and preferences (refer to map on previous page for location references)	
Diverse preferences	<p>A mix of preference for walls, berms and materials. Rosssdale #1 –A combination of preferences for walls, berms and wall/berm combinations were heard. Stone was the preferred material for walls. For some, red brick was a reminder of residential schools.</p> <p>“Combo barrier with stone.” (Rosssdale #1) “Berms are more natural.” (Rosssdale #1) “Stone wall will allow more trees to be replanted.” (Rosssdale #1) Rosssdale #2 - A mix of preference for berm, combination berm/wall and wall. For respondents that indicated a preference for walls or a combination of berm/wall, stone was the preferred material.</p> <p>“Whatever will last the longest.” (Rosssdale #2)</p> <p>Rosssdale #3 – A combination of preferences for berms and walls were heard, with slightly more recorded preferences for walls. Most respondents who indicated a preference for walls preferred a material that would allow for Indigenous artwork or words.</p> <p>“Wall with art along it. Nice that there's more land surface area around the plant with the wall.” (Rosssdale #3)</p> <p>“Walls provide opportunity for Indigenous art but berms are nature. Preference is berm.” (Rosssdale #3)</p> <p>Rosssdale #4 – Preferences for stone, brick and materials that would allow for artwork to adorn the walls or be displayed along the walls were heard.</p> <p>“Story-telling plaques/medallions (like at Walterdale).” (Rosssdale #4) “A place to post local Indigenous art.” (Rosssdale #4)</p> <p>No specific preferences were indicated at Rosssdale #5.</p>
Indigenous artwork	<p>“Artwork should be by Treaty Six artists.” Artwork should represent stories and histories of the area. “Plaques, benches that say this is treaty territory. Telling stories of the area to people.”</p> <p>“Row of flagpoles with different Nations’ flags (not too touristy).”</p>

Theme	Quote or supporting participant evidence
Acknowledge Indigenous perspectives	<p>“Maybe include stories, books, plaques in ways other than on the walls. Represent background of Indigenous peoples here and their languages.”</p> <p>“Around old Fort Edmonton hang interpretive renderings or art showing the history of the Fort.”</p> <p>“Two people can't speak for the whole Nation. We need to bring this to our Elders” (other community representatives).</p>

Opportunities for Indigenous inclusion

Ceremony and protocol at various times	<p>“Pipe ceremony before shovels are in the ground.”</p> <p>“Sites here should have monitoring and protocol.”</p> <p>“Strongly suggest something should be in place for chance finds.”</p>
Participate in monitoring throughout the project	<p>“Monitors on site at all times. Notify in advance.”</p> <p>“Want archaeological monitors during ground disturbance and are looking for opportunities.”</p> <p>“Sites here should have monitoring and protocol.”</p> <p>“Glad the Nations are being included in this work. Glad for EPCOR to create these opportunities to work with Nations....Grateful and thankful to partner with EPCOR.”</p>
Employment opportunities	<p>Construction employment</p> <p>“Bid - vendors list and how to get on it. May be some Nations with experience.”⁵</p>

Technical interest in the project

	<p>Pile depth, erosion, facilities, impact on groundwater, access to analysis reports comparing berms and walls.</p>
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⁵ All quotations in this table come from coded summaries for the Walking Tours and Virtual Community Update Sessions in Fall 2021 and Spring 2022.

OUR COMMITMENT TO VEGETATION MANAGEMENT

EPCOR is committed to stewarding the environment at our water and wastewater treatment plants. That means minimizing the impact of our activity on vegetation and wildlife, and replanting, restoring or replenishing habitat to its previous state, or greater, within our fenceline.

To do this, we have begun to develop a vegetation management plan to improve overall ecological structure and function and restore habitat on our sites. We are mapping current vegetation at each site and outlining a long-term plan to increase natural areas. This could include wildflower/pollinator gardens, developing a diverse undergrowth and forest succession strategy around already treed areas, and planting more trees to support city-wide goals toward improving the urban forest.

In addition to developing vegetation management plans for our sites, we will be looking for opportunities to work collaboratively with the City of Edmonton and align with the Urban Forest Management Plan on vegetation and habitat management outside our fencelines.

For the flood barrier project, we will restore vegetation that is lost due to the construction of these barriers so that we achieve an overall net gain in ecosystem structure and function in the area. This includes expanding natural areas within our fenceline if we are unable to restore them outside.

HOW WE USED THIS INPUT

We compiled and assessed all of the perspectives, suggestions, and comments received during the first phase of community engagement on this project.

We combined this information with the technical requirements of protecting Edmonton's water treatment plants in a situation where the North Saskatchewan River overtops its banks to refine our early design concepts and develop refined options for consideration during the second phase of engagement.

For Rossdale, while there was no clear community preference for the type of barrier to be used at each location, community input did provide insights into how they want the barriers to look and feel. EPCOR will take these considerations forward as we begin detailed design of the barriers.

- *Create space for recreation and transportation.*
- *Blend into existing surroundings*
- *Consider how to discourage vandalism.*
- *Improve "institutional" look/feel of the WTP.*
- *Celebrate the history of the area.*

Thank you to everyone who has provided feedback about this project to date!

This is a collaborative effort and we appreciate your insight and input. The feedback you've provided to date has helped us understand what we should consider as we select designs for the Rossdale site.

- *Add amenities that support recreation and community gathering*
- *Align with City, EPCOR, and Community priorities.*

We are looking forward to continuing these conversations over the coming months as we work together to further improve our plans to protect the Rossdale Water Treatment Plant in the event of a major flood.

WHAT'S NEXT

Over the coming months, we will continue to work with the communities around the Rossdale and E.L. Smith Water Treatment Plants confirm the feedback we have received and improve the quality of the project design.

We are committed to working with participants to develop designs that meet the needs of your community while being mindful of costs. We will ensure that the feedback received is reflected in the project design and share how community input influenced the final design.

In the next phase of engagement (Phase Three: Selected Designs), we plan to share the barrier locations selected for construction at the E.L. Smith Water Treatment Plant and confirm what we heard in terms of design considerations. In future phases of engagement, we will work with community members on the proposed designs and amenities.

Phase three engagement will be initiated in fall 2022, with formal engagement opportunities to be scheduled.

WE WANT TO HEAR FROM YOU! FOR MORE INFORMATION, PLEASE CONTACT:

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