

West Jasper Place/Sherwood Communities Open House

October 3, 2016



Agenda

- Welcome and Introductions
- Open House Overview
- Context & Background
- Project Details
- Question Period
- Breakout Discussion



Open House Overview

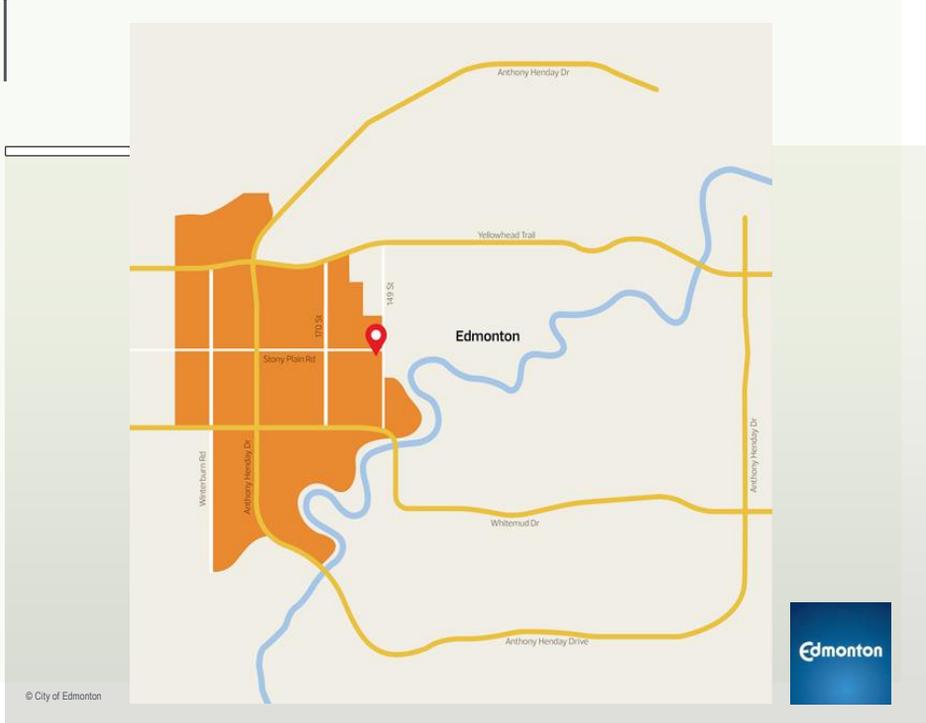


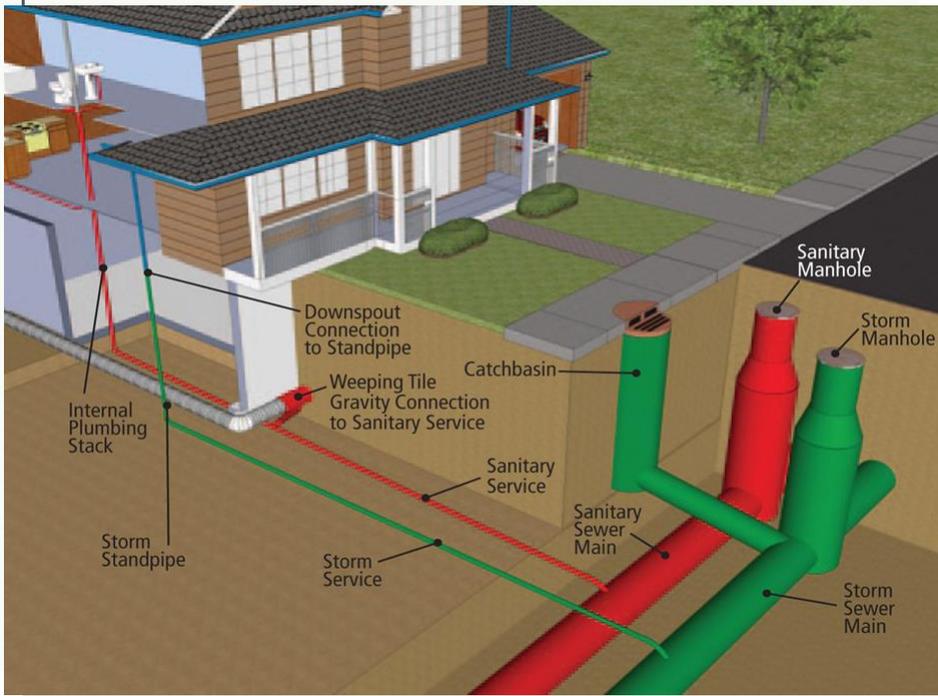
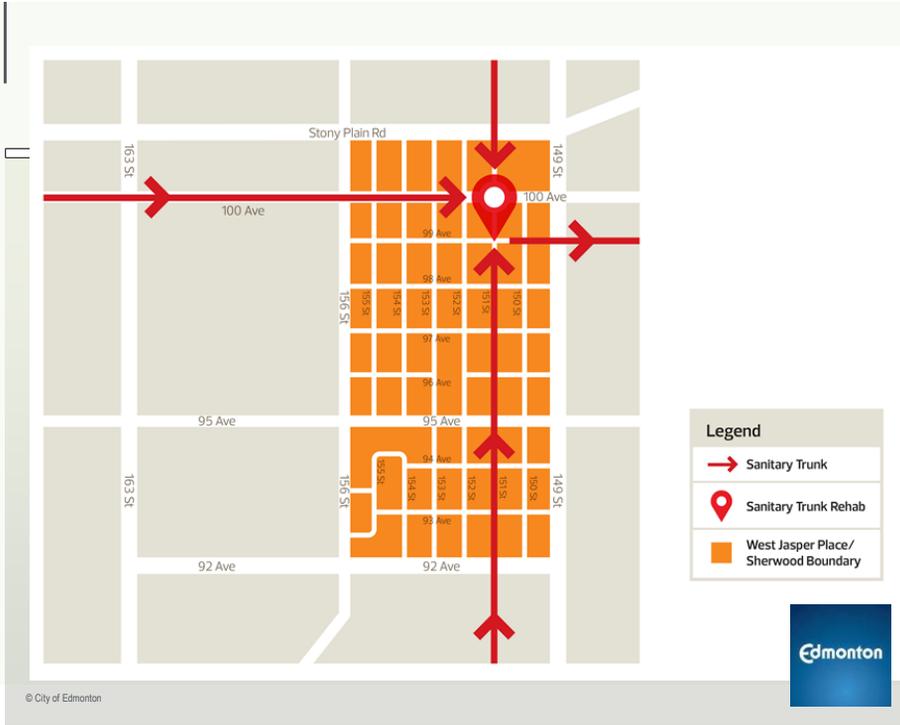
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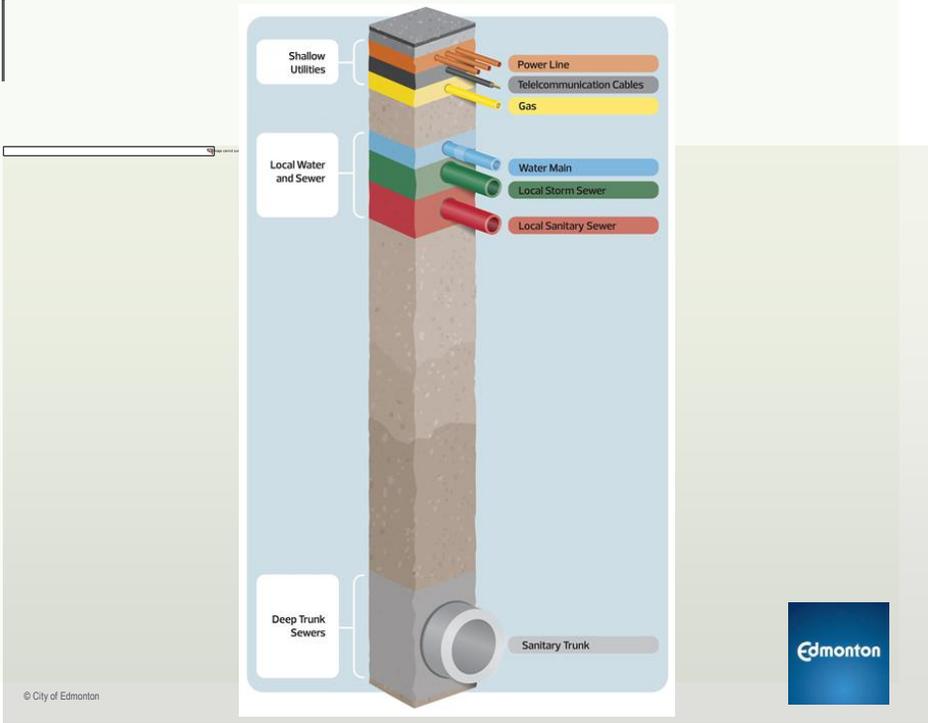
Context & Background



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Construction History

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Construction History

Year

- | | |
|----------------------------------------|-------------|
| 1. Neighbourhood Renewal | 2009 - 2010 |
| 2. WESS Stage W13 | 2011 - 2014 |
| 3. Odour Control Shafts | 2015 - 2016 |
| 4. 151 Street/99 Avenue Rehabilitation | Ongoing |
| 5. 100 Avenue Repair | Ongoing |



Trunk Sewer Repair/Rehabilitation Process



Trunk Sewer Repair/Rehabilitation Process

1. Stabilizing the situation
2. Assessing the issue
3. Engineering Design
4. Construction



Current Status of Work



Sanitary Trunk Sewer Assessment



Current Trunk Sewer Repair and Rehabilitation Work



100 Avenue Trunk Sewer Repair



Odour Control and Monitoring

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Odour Control

Odour Control

- Air Scrubbers (100 Ave - 151 Street/153 Street)
- Chemical treatment
 - Nitrates
 - Hydrogen Peroxide



Gas Monitoring

- Real Time H₂S and CO monitor at 99 Avenue
- Other additional ambient monitors at both 99 Avenue and 100 Avenue
- Continue to share data with AHS



Noise Mitigation



Noise Mitigation

- Monitoring
- All readings are below Alberta OH&S limits
- Mitigation Measures



Traffic Impact Mitigation



Traffic Impact Mitigation

- Monitoring and assessment
- 100 Avenue
- 98 Avenue 4-Way Stop pilot



Department Name
Branch Name

Thank you.



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**West Jasper Place/Sherwood Communities Open House
October 3, 2016 at West Jasper/Sherwood Community Hall**

Attendance: 40 (approximate), including Ward 1 Councillor Andrew Knack.

Presenters: Todd Wyman, Acting Executive Director, Utility Infrastructure, City of Edmonton.
Clem Yong, Director, Project Delivery, City of Edmonton.

Note: the Powerpoint presentations are available at: edmonton.ca/westedmontonsewer

PRESENTATIONS

Context and Background

To put into context the drainage work currently going on in West Jasper Place, Mr. Wyman provided an overview of the magnitude of the work, challenges involved and the approach Drainage Services (now part of Utilities Infrastructure) takes in identifying and resolving drainage issues throughout the city, not just in West Jasper Place. This approach essentially has three phases:

1. Stabilizing the situation to ensure public and work safety.
2. Data collection: Gaining access to pipes and using mechanical (closed circuit TV, sonar, laser), and visual inspections to determine the condition of sewer pipes and what repairs/reconstruction may be required.
3. Analyzing the data and creating an action plan to resolve the issue.
4. Design and implementation (construction) of the recommended solution.

If an unexpected problem occurs, the City's first priority is to stabilize the situation. This may include immediately closing all or a portion of a road for public safety, which was done recently on 100 Avenue following the discovery in August of a partially crumbled roof in the deep trunk sewer running underneath 100 Avenue (a collector of sewage from many west Edmonton neighbourhoods).

Mr. Wyman acknowledged drainage work has been going on in the neighbourhood a long time, beginning with the upgrading and rehabilitation of shallow sanitary and stormwater sewer pipes during neighbourhood renewal in 2009-2010. Unexpected issues with the planned 151 Street/99 Avenue sewer line rehabilitation and the unplanned deep trunk sewer repair under 100 Avenue have led to significant delays.

He said he sympathized with residents' frustration with the length of time and inconvenience the work has caused. He assured the crowd his group does not want to be in the neighbourhood any longer than necessary. However, he stressed their priority is to do the work well and completely, so they do not

have to return. How much longer they may be in the neighbourhood can't be determined until all of the data collection and analysis is completed.

Gas Monitoring Study Results

Mr. Wyman related the findings of a third-party study done in West Jasper Place that tested for Volatile Organic Compounds, fixed gases like carbon monoxide, and reduced sulphur compounds such as hydrogen sulphide and mercaptans. The tests showed the risks to human health were low although odours from sewer gas may be noticeable.

The tests were done in the spring of 2016 about a metre below the surface inside a manhole at 151 Street and 100 Avenue. He noted that concentrations of sewer gases measured inside the manhole would be much greater than those encountered above ground. A summary of the study is available on the City's website.

Project Update

Mr. Yong provided an update on the status of drainage work in the neighbourhood, odour and noise mitigation measures, and traffic management. Highlights of his presentation include:

- Inspection and assessment work will be completed by the spring of 2017
- To minimize the time for completing all of the work, the information will be used as it is received. This will allow any required new work to begin while the inspections and assessments continue.
- If inspections of other areas of the trunk sewer show the need for urgent repairs, they will take priority.
- The urgent repair work on the 100 Avenue deep sewer trunk will take several months. Once that is finished, crews will return to rehabilitating the sewer trunk along 151 Street and at 99 Avenue.
- Odours from construction shafts are being controlled by using two air scrubbers and injecting nitrates and hydrogen peroxide upstream to minimize the production of the hydrogen sulphide.
- Real time monitoring of hydrogen sulphide and carbon monoxide at 151 Street and 99 Avenue shaft continues ([live streaming to the City's website](#)). This, plus the data for other monitors at 99 and 100 Avenue intersections are shared with Alberta Health Services.
- Efforts have been made to reduce the noise coming from the air scrubbers, construction sites and the temporary pump station. Decibel measurements show the noise levels are well below those that are allowed by the Alberta Occupational Health and Safety Code.
- Drainage is working with Transportation Operations to monitor, assess and make adjustments to construction activity so traffic and pedestrian impacts are minimized. Mr. Yong confirmed:
 - Construction work will not obstruct the multi-use trail along the south side of 100 Avenue.
 - The pedestrian crosswalk at 100 Avenue at 151 Street will remain open.

- Although not directly connected to drainage work in the area, Darryl Mullen of Transportation Operations confirmed a four way stop, as a pilot project, will be placed at 98 Avenue and 153 Street to discourage speeding.

Comments and Feedback

Following the presentations, participants were invited to ask questions and provide feedback, either in front of the large group or later, at conversation stations set up around the hall. Several also provided comments via a feedback survey. This is a synopsis of the questions and feedback.

Construction

Many of those in attendance supported the City doing thorough inspections and taking whatever time is necessary to do the work well so a return to the neighbourhood, once the work is done, is prevented. However, several other attendees felt the City should set a schedule and stick to it so residents know when the work will end. They were tired of living in a disruptive state and felt the City should provide residents with special considerations like tax relief and improvement of road conditions.

A few questions related to the nature of inspections and whether an entire redesign of the existing deep sewers may be required. It was reiterated that the type and nature of any further work that may be required won't be known until after all inspections are complete.

Clarification was sought by a few attendees regarding who is responsible for the work and for minimizing mistakes. It was explained that the City is accountable for the work, the project manager provides oversight but some of the work is done by external contractors who can provide expertise or resources that the City cannot.

One person requested that the intersection at 99 Avenue and 151 Street be opened as soon as the work there is completed. He was opposed to that being used as an access point for any additional underground work that may be needed downstream.

Odour

A few attendees questioned the gas monitoring and its accuracy and requested more details regarding the work done. City staff related that the spring 2016 study was done by Intrinsik, an independent Calgary consulting firm that provides services throughout North America focusing on environmental and health consulting, toxicology, and health risk assessment. Constant air testing of carbon monoxide and hydrogen sulphide at the intersection of 151 Street and 100 Avenue is being managed by a City contractor. The data is reported [live](#) on-line.

One person suggested odour reports in the neighborhood be tracked so an assessment of the effectiveness of odour mitigation procedures can be done. Residents were encouraged to call 311 if they smell odours, this is how Drainage staff are tracking incidents.

Noise

There were concerns expressed that the air scrubbers may be causing negative air flow in homes by creating a vacuum in the pipes. Those who raised the issue suggested this may be causing unusual noises, behaviours and smells coming from toilets and drains that did not exist before the air scrubbers were employed.

There were a couple of complaints about the noise from generators at the pump station (100 Avenue. and 151 Street) and the scrubber on 100 Avenue.

Traffic and Roads

There were concerns expressed about the inadequacy of traffic signage in the neighbourhood. Some residents were also concerned with traffic disruptions and site line, potholes, street ponding, storage areas, and other conditions that affected drivers and pedestrians in certain areas of the neighbourhood. Specific areas cited were:

- The intersection at 151 Street and 99 Avenue.
- The 100 Avenue air scrubber, particularly with its intended move eventually to 99 Avenue just east of 151 Street.

They urged the City to address these issues now, and not wait until construction was done.

It was noted by a couple of attendees that blocking a street or intersection encourages people to use alleys as thoroughfares. As alleys are not designed for this, it is both dangerous and causes a rapid deterioration of laneways that, in some cases, are already in bad condition.

Updates

Updates to interested West Jasper Place and Sherwood residents are provided through emails and bi-weekly bulletins, delivered by email or mail (for those without email). Task Force meeting minutes, community meeting summaries, presentations, handouts and more are posted on the City of Edmonton website at edmonton.ca/westedmontonsewer

To join the mailing list or for additional information, contact 311 or email drainageprojects@edmonton.ca