



Green Line Board May 2023 Public Progress Report

1.0 Executive Summary

Green Line continued to advance its procurement and early works construction activities through the month of May.

Procurement milestones from May include the 78 Avenue Project, which received two Request for Proposals (RFP) submissions. Following the Green Line Board's approval, Green Line began negotiations on May 26, 2023, with the first negotiations proponent and expects to identify the successful proponent and have the contract executed in early June 2023. As part of the Development Phase, Green Line and the Development Partner (BTC) commenced the technical information exchange sessions and continue to work on upcoming deliverables of the Development Phase.

There were also two touchpoints with City Council in May. On May 3, 2023, Green Line provided a project update to the Access and Design Sub-Committee of Council and shared a draft checklist being used by the team to monitor accessibility during construction. On May 16, 2023, the Land Use / Area Redevelopment Plan (ARP) amendments, relevant to the Eau Claire Market and future LRT station lands, were presented at Council Public Hearing, receiving unanimous approval.

From a safety perspective Green Line continues to monitor safety compliance and incidents. There was one property damage incident which occurred on May 2, 2023, when an aged water line ruptured resulting in an interruption to the water supply to an adjacent building. The scope of repairs required full lane closures over a weekend and shutting off water supply to additional buildings. Green Line worked with impacted businesses to ensure that their operations could be sustained by providing temporary water until the line was repaired.

1.1 Construction Highlights

Shallow utility relocation work (such as third-party telecom, electricity, and gas utilities) continues within Beltline and Downtown, in addition to engineering design works for the remaining shallow utility work. Deep utility relocation works in Beltline include City sanitary, water and stormwater utilities.



Looking west at deep utility relocation work on 12 Avenue S.E., west of 6 Street S.E.



Looking east at Enmax vault installation at 2 Street S.W. and 5 Avenue S.W.

Green Line continues to work to minimize construction impacts to the travelling public and coordinate construction activities among third-party utilities, PCL who is managing BDURP construction activities on behalf of Green Line.

The following utility relocation work in the Beltline and Downtown continued during May with a look ahead at planned construction activity for the month of June:

| Beltline | | |
|--|------------|---------------------|
| Construction activity | May | June |
| Installation of deep utilities on 12 Avenue, east of 5 Street S.E. | Completed | - |
| Installation of a new sanitary and storm manhole on Olympic Way, north of 12 Avenue S.E. | Underway | Continues |
| Installation of a new feedermain along Olympic Way, between 12 Avenue and 11 Avenue S.E. | Completed | - |
| Installation of new sanitary and storm lines at Olympic Way and 11 Avenue S.E. intersection. | Underway | Continues |
| Installation of deep utilities on 12 Avenue north pass of intersection at 5 Street S.E. | Started | Expected Completion |
| Enmax Transmission Line relocation work in 10 Avenue S.W. between 2 Street S.W. and MacLeod Trail S.E. | Underway | Continues |
| Roadwork at 12 Avenue between 5 Street S.E. and 6 Street S.E. | Completed | - |



| Downtown | | |
|--|---|--|
| Construction activity | May | June |
| Telus duct bank relocation work on 4 Avenue between 1 Street and 2 Street S.W. | Underway | Expected Completion |
| Enmax duct bank relocation works at: <ul style="list-style-type: none"> 7 Avenue between 2 Street and 1 Street S.W. 1 Street between 7 Avenue and 2 Avenue S.W. | Completed (7 Avenue) Underway (1 Street) | Continues (1 Street) |
| Enmax vault installations on south side of 5 Avenue S.W.: <ul style="list-style-type: none"> east of 2 Street S.W. west of 2 Street S.W. Enmax duct bank and vault installation on north side of 5 Avenue S.W. west of 2 Street S.W. | Completed (original 2 vaults) | Continues (duct and vault on north side) |
| Telus duct bank installation work on 6 Avenue between 1 Street and 2 Street S.W. | Underway | Expected Completion |

1.2 Program Status Dashboard

The table below provides the program status dashboard update for May 2023, including the overall program status and a comparison to the previous month.

| Functional Area | May Status | April Status | Comments |
|---|---------------------------------------|---------------------------------------|--|
| Health & Safety | ● | ● | <ul style="list-style-type: none"> There was one property damage incident on May 2, 2023. |
| Environmental | ● | ● | <ul style="list-style-type: none"> No environmental incidents occurred in May 2023. Transitioning environmental assessment data to BTC. |
| Stakeholder Relations | ● | ● | <ul style="list-style-type: none"> Connected with 173 businesses, residents, and key partners in May 2023 (427 in April 2023). |
| Schedule | ● | ● | <ul style="list-style-type: none"> Phase 1 DBF-DP on-boarding activities are on schedule. BDURP construction key milestones are on schedule. |
| Cost | ● | ● | <ul style="list-style-type: none"> Green Line continues to proactively monitor program costs. Appropriate mitigation measures for key risks continue to be identified and implemented. |
| Quality | ● | ● | <ul style="list-style-type: none"> Program Quality Management Plan implementation continued with ongoing oversight of design quality management, BDURP construction works, and LRV Supply project quality compliance. |
| *Definitions of the dashboard statuses can be found online in the Monthly board report and financial summary legend . | | | |



1.3 Financial Summary as of May 31, 2023

Green Line continues to monitor the financial position of the program.

| Category | Committed Cost | Cost to Date | Cost Year to Date |
|-----------------------------------|------------------------|----------------------|---------------------|
| Owner’s Cost | \$87,482,644 | \$87,003,017 | \$7,036,899 |
| Design & Engineering | \$302,451,495 | \$287,222,589 | \$18,723,354 |
| Construction, Land & Other Assets | \$689,013,681 | \$487,714,361 | \$31,951,438 |
| Bus Rapid Transit | \$5,121,973 | \$5,121,973 | \$478,677 |
| Grand Total | \$1,084,069,793 | \$867,061,939 | \$58,190,368 |

*Details on specific inclusions can be found online in the [Monthly board report and financial summary legend](#).

1.4 Milestone Schedule

Upcoming milestones and achievements for the Green Line program include:

| Achievements Completed | Upcoming Milestones |
|---|---|
| <p>May 16, 2023 – Amendments were approved at the Public Hearing of Council for the Eau Claire Land Use / Area Redevelopment Plan (ARP).</p> <p>May 24, 2023 – LRV Axle journal bearing testing completed</p> | <p>June 2023 – 78 Avenue Project contract announcement</p> <p>Q4 2023 – aiming for LRV Final Design Review (FDR) completion</p> |

1.5 Risk Management

Risks and opportunities are continually monitored by Green Line, some key items of note from May 2023 are:

- **Risk:** Green Line continues to monitor financial and construction market changes. Regular external due diligence is ongoing to identify, evaluate and validate information and assumptions. With the Development Phase Agreement signed and Green Line moved into the Development Phase, construction market risk level is significantly reduced but will continue to be monitored.
- **Risk:** Utility relocation works in Beltline and Downtown are ongoing in busy traffic corridors, which has a potential to impact travelling public and pedestrians. Green Line continues to proactively engage and notify stakeholders of potential construction related impacts (e.g., road closures) and is working actively with City business units on a regular basis to optimize traffic control, lane closures, and assist with traffic management in Beltline and Downtown overall.

1.6 Public Affairs

BDURP construction is ongoing in the Beltline and Downtown and coordinated traffic and pedestrian detours are in place to maintain area access. Green Line continues to collaborate with Third-Party Utilities to ensure impacted businesses are prepared, that access is being maintained, and business operations are considered during construction planning.



Integrated Green Line project and Rivers District hoarding was installed on 11 Avenue S.W. to support wayfinding and the overall aesthetic in the area.

In early May, a downtown office building was impacted for the second time due to a water service line break. The emergency repair work resulted in an unplanned water service outage and full road closure over a weekend for half a block on 5 Avenue S.W. Green Line worked closely with Enmax, the City’s Mobility and Water Services teams, and impacted businesses to ensure temporary water services were provided and access to impacted sites were maintained during the repair work. A temporary loading zone was installed to support multiple events over the weekend closure, and a media release was issued to make Calgarians aware of the impacts to the roadway.

On May 3, 2023, Green Line provided a project update to the Access and Design Sub-Committee of Council and shared a draft checklist being used by the team to monitor accessibility during construction. Committee members have been invited to provide their feedback and expressed interest in participating in a site visit to share their input. On May 24, 2023, Green Line met with over a dozen downtown property management companies to provide a monthly construction outlook. Participant response is positive, with feedback to continue to keep them informed.

In addition to the eight construction notices sent to 237 stakeholders in Beltline and Downtown during the month of May, direct stakeholder outreach for May 2023 is summarized below. The number of inquiries received through email and 311 channels remained steady compared to the previous month, with an increase in direct emails from property owners and tenants who were in receipt of a Notice of Intent to Expropriate.

| Outreach Activity | Activity (May) |
|----------------------------------|----------------|
| Business outreach* | 126 |
| Residential/property outreach* | 9 |
| Key stakeholder/partner meetings | 38 |
| Email/social/311 requests | 10 |
| Information sessions/events | 5 |

* Outreach includes calls, meetings, and on-site visits.

In advance of construction for the 78 Avenue Project beginning this summer, Green Line presented to over 300 students in Ogden (kindergarten to grade seven), to share information about the upcoming project and how to stay safe during construction. The team has also been meeting with local social agencies in the area and developing relationships to better support the community during construction. In addition, the Green Line Street Team attended the Let it Grow event in Ogden to connect with community members and provide details on the construction information sessions beginning in June.

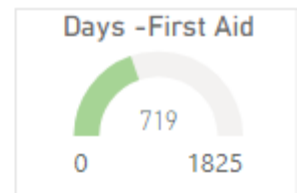
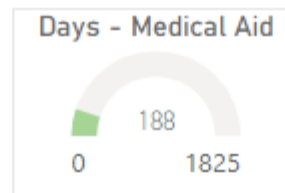
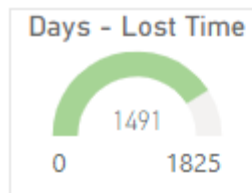
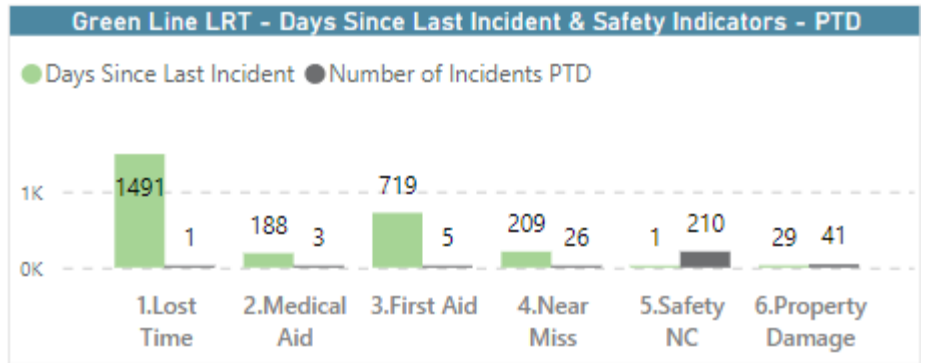
The Green Line website home page was revamped and launched in May to feature “What’s happening now” content and improve the overall functionality of the site. These changes allow visitors to access the most current information and news at a glance and provide new options to delve deeper into the site based on interests.



2.0 Health & Safety

Green Line monitors the safety compliance of Green Line staff, consultants, and contractors at construction sites. First Tower safety orientation including emergency procedures, muster point and equipment locations continues for new hires.

There was one property damage incident which occurred on May 2, 2023. A Third-Party Utility company was pulling a steel pile from the excavation on 5 Avenue and 2 Street S.W. when the adjacent water line ruptured resulting in a short-term interruption of water supply to the adjacent building. No physical contact with the waterline was made but vibration resulting from the piling operation has caused damage to the over 80 years old waterline. The waterline was replaced by the City and Green Line is working with the City Water Services team to proactively identify aged infrastructure and develop appropriate mitigation measures. Details on the mitigation measures undertaken with impacted businesses is outlined in section 1.6.



PTD = Program to Date

Safety Audit

Green Line safety provided BDURP contractor performance safety records to the external consultant to perform a safety data assessment. The first stage of the audit was completed in May. Green Line staff are reviewing the report and will assess next steps to best utilize the external consultant's data analysis of the CM Contractor's Safety Management System.

Safety Reporting

| Performance Indicator | | Green Line & City Staff | Contractors | Green Line, City Staff & Contractors |
|---|-----------------|-------------------------|-------------|--------------------------------------|
| TRIFR: Total Recordable Injury Frequency Rate | per 200,000 hrs | ● | ● | ● |

**Statistics based on a rolling 12-month period from May 31, 2022, to May 31, 2023.*

3.0 Environmental

Environmental assessments were wrapped up in February, and no new field assessments were done in May.