

## PROJECT STATUS REPORT

To:	Village of Lytton	Contact:	CAO – Michael Baker
Project:	Lytton Recovery	From:	Recovery Project Manager – James Heigh
Report Period:	February 2023	Date Issued:	March 9, 2023

### 1. Project Dashboard

Current Project Phase:



Status	Overall Status	Scope	Budget	Schedule
Last Period	<b>High Risk</b>	<b>High Risk</b>	<b>High Risk</b>	<b>High Risk</b>
This Period	<b>High Risk</b>	<b>High Risk</b>	<b>High Risk</b>	<b>High Risk</b>

### Project Status Executive Summary

#### Matcon

Actions this month include:

- Demobilization of most crews and equipment.
- Excavation of localized contamination on properties following initial soil testing completed (hotspot removal).
- Retaining wall removal and partial backfill of some lots along Main St.
- Contaminated soil removal and disposal on all available properties.

As of Feb 17, 8 properties have not been remediated, 4 of which are on stand-by order from property owner, 2 of which are awaiting Archeological approval, 1 is a high risk environmental site, 1 needs geotechnical guidance on the retaining wall. Shovel Testing has been agreed upon to proceed but the number of properties is still being verified while the remaining properties are remediated. Backfilling will take a maximum of 90 days and will overlap with the final stages of shovel testing. The timeline can be decreased for backfilling if additional resources are made available at the time.

#### IBI

Arcadis IBI Group has been concurrently completing the following activities in the VoL during the month of February:

#### **Remedial Works Status**

Onsite remedial works were shut down by Matcon on February 10, 2023.

#### **Soil Stockpiles**

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Following shut of down site works by Matcon, IBI identified forty stockpiles (mostly waste soils). IBI recommend that these piles be removed or site protected as soon as possible to prevent potential impacts during the upcoming spring precipitation events and subsequent freshet. These stockpiles will be removed or protected once Matcon has returned to site in March.

### **Soil Sample Collection and Analysis (Confirmatory Samples)**

Post-remedial confirmatory soil samples are being collected by IBI field staff from completed remedial excavations in general accordance with the BC Ministry of Environment Technical Guidance 1. Confirmatory soil samples are analyzed for contaminants of concern previously identified during the site investigation component.

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### AEW LP

In February, A.E.W. continued work on the approved scope to perform the role of archaeology consultant and heritage monitor for the Village of Lytton properties, which includes the screening of excavated materials and regulatory reports as required by legislation. A.E.W. conducted 19 days of work that included: monitoring contractor debris removal, screening/raking material for potential heritage artifacts, and testing material. There were zero unscheduled workdays. Currently, 151 lots have been approved for monitoring of which A.E.W. is actively monitoring work or has monitored on all these that have been clear for remediation. Potential archaeological sites have been uncovered on 92 lots.

The currently approved works regarding screening of excavated materials will end on available soils at the end of February until the Civil Contractor is on site to complete the hot spots and the remaining soils remediations through the Village.

Additional works to be added to the contract will include the subsurface investigation (shovel testing), on all properties with newly identified Heritage values, through March and April, as well as associated monthly reporting, and a final report for works completed.

A.E.W completed the interim archaeology report that was due at the end of February. The report has been sent to Indigenous Communities for consultation and engagement, and the report was presented to KHC.

Matcon reduced to a smaller crew part way through February. A.E.W. continued screening work on piles in the Village and commenced work on the West Side including observation and post-impact inspections.

Crew size in February was higher than in January at 11.5 persons compared to 10.0

Field Directors Abby Wilson and Meaghan Griffith are co-field directing the work in the village, supported by Archaeology Assistants Brendan Whitley and Carissa Nakesch and a team of Heritage Field Technicians.

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### Infrastructure

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Well #2 water line disinfection works has been complete and well #2 is online. Well #2 now starts and stops automatically, in an event of high creek water turbidity.

An instrumentation tech. from Exceed engineering visited the site to assess and provide feedback on various aspects of the Water Treatment Plant, including:

- damaged instrumentation,
- electrical equipment,
- communications assessment/reliability,
- Programming Logic
- Site intrusion alarm/monitoring system functionality
- VFD #2 Kiosk ventilation Assessment

A report from Exceed Engineering is expected in Early March with more information on the assessment done at the site. This report will then be used to contract out work for establishing full functionality to the WTP communications and operations systems. Once complete, the Boil Water Notice can be removed.

DFA continues to review the additional funding requests for the Lytton Creek debris pond, intake pond, and various water system-related works. No timeline on approval is available, however, an Engineer review is required by the DFA Engineering Team before approvals can be completed. This review will not delay the recovery works as funding from the Province will allow for repairs and recovery while DFA works to provide funding on their end.

With the debris accumulating in with intake pond and worries of additional debris entering the intake pond during freshet, the intake pond was cleaned of all debris, to ensure sufficient volume of water will be available in the intake pond when additional debris enters the intake pond. The intake pond will need to be repeatedly cleaned until the dam is repaired/rebuilt.

Phases 1 and 2 of the leak detection programs have now been completed by Cloudburst Water. A major leak had been found in the Ponderosa area. Work is being completed to determine the scope required to repair this leak and a tender for system repairs will be posted publicly in March. Once a Proponent is selected, the repair works will begin in order to bring the water system to full operations with the supply of potable water throughout the Village.

BC Hydro has completed all the installation of all poles and wires in there phase 1 plan. The village now has energized power lines.

Staff are working to complete the Master Service Agreement with the Geotechnical Consultant in order to bring them on board and begin geotechnical assessments through the Village.

Staff continue to identify additional grant opportunities for future works, and Reports to Council will be provided for the approval to proceed with applications when eligibility is verified.

Colliers is working on developing several RFPs including Sanitary line works, water systems upgrades, alternative energy studies, Public Works Building Design RFP and several more to have required work lined up as remediation works is beginning their final stages and the Village gets ready for infrastructure works. The sanitary line works will be to camera, flush, and identify issues with the sanitary pipes. For the water system procurements, Colliers is working on a

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design RFP for water system upgrade designs for the approved pipe resizing and for the fire flows.

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## 2. Key Risk Changes

Risk Title	Impact on Scope / Schedule / Budget	Mitigation Strategy
<b>Shovel testing program</b>	Schedule delay and / or cost increase	Review AEW recommendations and work closely with Regulator to move the program through priority properties. Focus on properties with Building Permit applications to reduce delays for residential rebuild.
<b>Heritage Site identification</b>	Increase in the budget. Increase in the number of monitoring days Increase in back-end reporting	Budget increase. Increase the number of monitoring days.
<b>Project Funding</b>	Delays on project funding for Remediation and Archaeology will delay overall project schedule	Develop accurate budget estimates and provide adequate information for funding decision approvals.

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### 3. Budget Status

Zone 1 & 2 hot spot removal has been completed. Matcon worked through hot spot removals in Zones 3 – 6 in late in early February prior to site demobilization between Feb 10-17. Backfilling will be completed on all properties once remobilization occurs and a Site Alteration Permit is issued.

Additional budget estimates are being developed for IBI, A.E.W. and Matcon to complete the final remediation and backfill works.

Current Project Status	Cost	Comments
Baseline Budget	\$25,731,694	Planned Budget
Committed	\$24,479,829	
Approved Change Orders	\$22,188,126.13	Matcon, IBI, AEW CO's
Forecast Cost at Completion	\$32,259,188	Based on increased costs for Shovel Testing program and backfill of properties
Forecast Variance at Completion	-\$6,527,494	

### 4. Schedule Status

The schedule has been readjusted to add the demobilization of the Matcon equipment from Mid Feb through Mid-May at which time the backfilling should begin if Site Alteration Permits are issued. Backfilling of properties can be completed within a 6 – 8-week period if AEW is able to provide sufficient crews for shovel testing.

We expect the work on site will materially slow until these properties are ready for final remediation. The work will resume once more favorable weather conditions exist for the final work in Zone 7 and the shovel testing program has been fully developed, approved and funded.

Row	Milestone	Planned Baseline	Current Plan	Actual/Forecast	Variance Current Plan – Actual/Forecast (weeks)
1	Procurement of Environmental QP	Mar 01, 2022	Mar 01, 2022	Mar 01, 2022	0
2	Procurement of Prime Contractor	Mar 01, 2022	Mar 01, 2022	Mar 01, 2022	0
3	Procurement of Archaeologist and Heritage Monitors	Apr 01, 2022	Apr 01, 2022	Apr 01, 2022	0
4	Construction mobilization	Mar 08, 2022	Mar 08, 2022	Mar 08, 2022	0
5	Completion of Work in Zone 1 and Hobo Hollow	May 19, 2022	March 30, 2023		6
6	Establish a safe corridor between Highway 12 and CN Rail bridge for public access	May 19, 2022	May 19, 2022	May 22, 2022	0.5
7	Completion of Work in Zone 2	June 6, 2022	March 30, 2023		0
8	Completion of Work in Zone 3	June 22, 2022	March 30, 2023		0

9	Procure Watershed Analysis Engineering Team	June 24, 2022	June 24, 2022	Feb, 2023	6
10	Completion of Work in Zone 4	July 8, 2022	March 30, 2023		0
11	UV System Repair and fully operational	July 8, 2022	July 8, 2022	July 11, 2022	0
12	Completion of Work in Zone 5	July 26, 2022	March 30, 2023		0
13	Completion of Work in Zone 6	August 11, 2022	March 30, 2023		0
14	Source Water Protection Plan Update	August 26, 2022	February 28, 2023		15
15	Completion of Work in Zone 7	August 29, 2022	May 30, 2023		0
16	Leak Detection Phase 1		September 16, 2022	Sept 16 <sup>th</sup> , 2022	0
17	Geotech Agreement signed	September 30, 2022	January 30, 2023		0
18	Leak Detection Phase 2		February, 2023	January 27, 2023	0
19	Substantial Performance	Sept 30, 2022	June 30, 2023		8
20	Water system online	April 1, 2023	May 30, 2023		

## 5. Project Photos



Photo 1 – Stockpiled soils on Fraser Street from hotspot remediation in Zone 1-3



Photo 2 – Zone 1 & Zone 2 hot spot removal complete



Photo 3 – Zone 2 hotspot remediation.



Photo 4 – Zone 3 Hotspot remediation



Photo 5 – Zone 3 hotspot remediation



Photo 6 – Zone 3 hotspots