

# VIA E-MAIL: dave.young@vancouver.ca

 Victoria File:
 26250-20/0700

 Regional File:
 26250-20/0525

 Site ID:
 1244

October 6, 2022

David Young, Contaminated Sites Specialist City of Vancouver 507 West Broadway, Suite 320 Vancouver, BC V5Z 0B4

Dear David Young:

## Re: Approval in Principle – 688 Cambie Street, Vancouver, British Columbia

Please find enclosed an Approval in Principle respecting the contaminated site referenced above.

In addition to the conditions set out in Schedule B of the Approval in Principle, please be advised of the following:

- 1. Information about the site will be included in the Site Registry established under the *Environmental Management Act*.
- 2. The provisions of this Approval in Principle are without prejudice to the right of the Director to make orders or impose requirements as the Director may deem necessary in accordance with applicable laws. Nothing in this Approval in Principle will restrict or impair the Director's powers in this regard.
- 3. A qualified environmental consultant should be available to identify, characterize and appropriately manage:
  - (a) any environmental media that may be contaminated, or
  - (b) soil which may exceed the standards triggering a Contaminated Soil Relocation Agreement set out in Part 8 of the Contaminated Sites Regulation

and may be encountered during any future subsurface work at the site.

4. This Approval in Principle does not authorize entry upon, crossing over, or use for any purpose of private or Crown lands or works, unless and except as authorized by the owner of such lands or works. The responsibility for obtaining such authority rests with the persons

undertaking remediation. It is also the responsibility of those persons to ensure that all activities conducted under this Approval in Principle are carried out with due regard to the rights of third parties, and comply with other applicable legislation that may be in force.

- 5. Additional permits and approvals may be required before remediation begins.
- 6. All site materials (e.g., excavated soil, replaced soil, groundwater from dewatering, pumping, well development etc.) must be characterized and managed in accordance with applicable legislation and ministry guidance.
- 7. Groundwater wells that are no longer required must be properly decommissioned in accordance with the *Water Sustainability Act's* Groundwater Protection Regulation.
- Please be advised that there are inherent health and safety risks associated with remediation activities at contaminated sites. Development of site-specific work procedures in accordance with WorkSafeBC regulations is warranted. Please direct related questions to the WorkSafeBC office at 604-276-3100 (Lower Mainland only) or 1-888-621-7233 (toll free in B.C.).
- 9. Any substantial modifications to the approved remediation plan, including substantial changes to the remediation schedule, conditions or circumstances described in the risk assessment upon which the remediation plan is based, or changes in land use, must be promptly identified by written submission to the Director.
- 10. If an application for a Certificate of Compliance is to be submitted for the site, the confirmation of remediation report accompanying the application must demonstrate compliance with the remediation standards and criteria in force at the time the application for the Certificate is made, which may differ from the remediation standards and criteria in force at the time of issuance of this Approval in Principle.

Issuance of this Approval in Principle is a decision that may be appealed under Part 8 of the *Environmental Management Act*.

If you require clarification of any aspect of this Approval in Principle, please contact the undersigned at <u>George.Szefer@gov.bc.ca.</u>

Yours truly,

George Szefer, M.Eng., P.Eng. For Director, *Environmental Management Act* 

Enclosure

cc: City of Vancouver, Contaminated.Sites@vancouver.ca

Anna Popova, CSAP Society 613-744 West Hastings Street, Vancouver, BC, V6C 1A5 (BY EMAIL) apopova@csapsociety.bc.ca

Travis Deeter, P.Ag., Approved Professional, Thurber Engineering Ltd. 900-1281 West Georgia Street, Vancouver, BC, V6E 3J7 (BY EMAIL) tdeeter@thurber.ca

Scott Steer, R.P.Bio., Approved Professional, Steer Environmental Associates Ltd. 1515 Holland Street, Nelson, BC, V1L 3E2 (BY EMAIL) <u>scott.steer@steerenvironmental.com</u>

Client Information Officer, ENV, Victoria (BY EMAIL) <u>csp\_cio@Victoria1.gov.bc.ca</u>

Eagle Eye Security Ltd. Office number-7, 8140 120 St Unit 103, Surrey, BC, V3W 3N3 (BY EMAIL) info@eagleeyesecurity.ca



# **APPROVAL IN PRINCIPLE** (Pursuant to Section 53 of the *Environmental Management Act*)

**THIS IS TO CERTIFY** that the remediation plan described herein submitted by the City of Vancouver for the contaminated site identified in Schedule A of this document has been approved.

When implemented, the remediation plan must be implemented in accordance with the requirements and conditions specified in Schedule B.

The substances for which remediation will be conducted and for which this Approval in Principle is valid are specified in Schedule C.

I have issued this Approval in Principle based on a review of the documents listed in Schedule D. I, however, make no representation or warranty as to the accuracy or completeness of that information.

A Director may rescind this Approval in Principle if conditions imposed in the Approval in Principle are not complied with or any fees payable under Part 4 of the Act or regulations are outstanding.

This Approval in Principle should not be construed as an assurance that there are no hazards present at the site.

October 6, 2022 Date Issued

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#### Schedule A

The site covered by this Approval in Principle is located at 688 Cambie Street, Vancouver, British Columbia which is more particularly known and described as:

Block 48, District Lot 541, Plan 8970

PID: 009-860-991

The approximate centre of the site using the NAD (North American Datum) 1983 convention is:

Latitude:	49°	16'	46.69"
Longitude:	123°	6'	42.76"

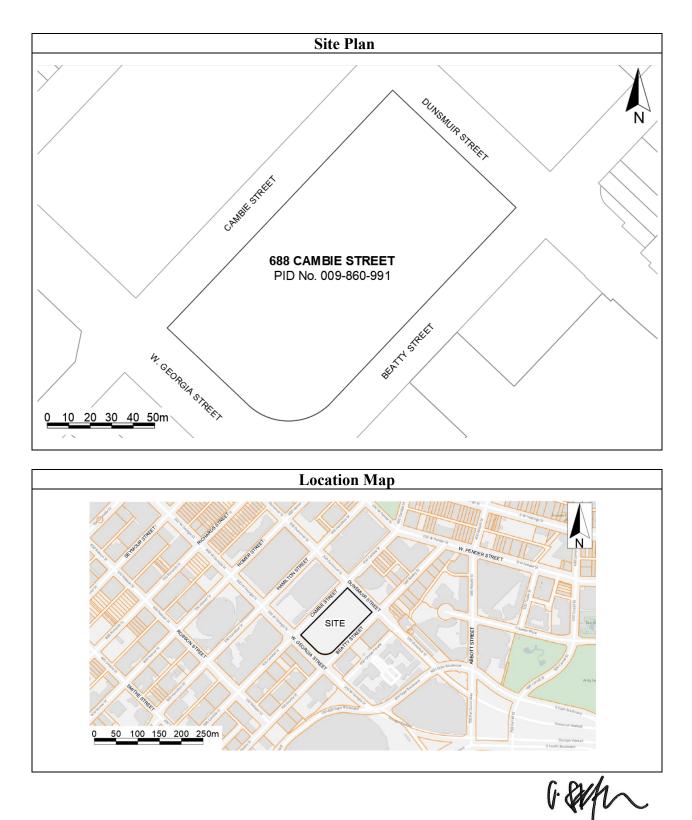
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Signing Authority For Director, Environmental Management Act

Site Identification Number 1244 Version 9.0 R

October 6, 2022 Date Issued

 $2 \ of \ 10$ 



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## Schedule B

### **Requirements and Conditions**

- 1. Remediation, including monitoring, inspections and maintenance of any works, must be undertaken by the responsible person in the manner and schedule specified in the plan listed in Schedule D or as specified in a modification of the plan approved by the Director.
- 2. Any substantial modifications to the approved remediation plan, including substantial changes to the remediation schedule, conditions or circumstances described in the risk assessment upon which the remediation plan is based, or changes in land, vapour, water, or sediment use, must be promptly identified in a written submission by the responsible person to the Director. An application for an amendment or new Approval in Principle may be necessary.
- 3. Up-to-date records of monitoring, inspections and maintenance of any works must be maintained by the responsible person or their agent. The records must be available for inspection by the Director.
- 4. Remediation must be completed within 10 years of the date of issuance of this Approval in Principle.
- 5. Remediation must be confirmed in accordance with applicable legislation and ministry guidance. Within 90 days of completing remediation, a report summarizing confirmation of remediation must be prepared in accordance with section 49 (2) of the Contaminated Sites Regulation and submitted to the Director.
- 6. A statement signed by an Approved Professional must be submitted to the Director within 90 days of the anniversary of the date of issuance of this Approval in Principle. The statement must include the following:
  - (a) A summary of remedial activities undertaken during the reporting period; and
  - (b) An assessment comparing remediation progress to the actions and schedule set out in the plans referenced above. Refer to Condition 3 above if remedial progress differs substantially from the schedule set out in the approved plan.

If requested by the Director, a report signed by an Approved Professional must be submitted for review to the Director and must include the following:

(a) A summary of remedial activities undertaken to date;

October 6, 2022 Date Issued

Signing Authority For Director, *Environmental Management Act* 

- (b) An assessment comparing remediation progress to the actions and schedule set out in the plan referenced above. Refer to Condition 3 above if remedial progress differs substantially from the schedule set out in the approved plan;
- (c) Evaluation of the performance of the institutional and/or engineering controls; and
- (d) Supporting documentation (e.g., analytical reports, records of inspection, maintenance of treatment works, etc.).
- 7. The documents listed in Schedule D indicate that vapour attenuation factors were applied to meet Contaminated Sites Regulation numerical standards at the site. These vapour attenuation factors were selected based on assumptions about the structures, locations and depths of buildings existing or expected at the site. These assumptions include the following:
  - (a) Future Site buildings will consist of two mixed-use buildings with commercial use at grade with underground parkades.

Any inconsistencies that arise between the structures, locations and depths of proposed or constructed buildings at the site and the range of structures, locations and depths of buildings assumed in the selection of vapour attenuation factors in the documents listed in Schedule D must be promptly identified by the responsible person in a written submission to the Director. An application for an amendment or new Approval in Principle may be necessary.

October 6, 2022 Date Issued

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### Schedule C

#### Substances and Uses

## Substances to be remediated in soil for commercial land soil use:

To meet numerical remediation standards:

lead	7439-92-1
zinc	7440-66-6

To meet risk-based remediation standards:

LEPHs	NA
VPHs	NA
xylenes	1330-20-7

#### Substances evaluated in soil for commercial land soil use:

To meet local background concentrations:

selenium 7782-49-2

Substances to be remediated in water for marine aquatic water use:

#### To meet risk-based remediation standards:

acenaphthene	83-32-9
acridine	260-94-6
anthracene	120-12-7
benz(a)anthracene	56-55-3
benzo(a)pyrene	50-32-8
chrysene	218-01-9
EPHw10-19	NA
fluoranthene	206-44-0
fluorene	86-73-7
LEPHw	NA
naphthalene	91-20-3

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phenanthrene	85-01-8
pyrene	129-00-0
VHw6-10	NA
VPHw	NA

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Site Identification Number 1244 Version 9.0 R

### **Schedule D**

#### **Documents**

Document Title	Author / Company	Document Date
Performance Verification Plan, 688 Cambie Street, Vancouver, BC, Site ID: 1244	Steer Environmental Associates Ltd.	June 2, 2022
Human Health and Ecological Risk Assessment, 688 Cambie Street, Vancouver, BC	Steer Environmental Associates Ltd.	June 2022
Detailed Site Investigation and Remediation Plan, 688 Cambie Street, Vancouver, BC	Thurber Engineering Ltd	May 25, 2022
Stage 1 Preliminary Site Investigation, 688 Cambie Street, Vancouver, BC	Thurber Engineering Ltd	May 18, 2022
Protocol 6 Preapproval Application to Not Delineate Contaminants of Concern and for Approval in Principle longer than 5 years – 688 Cambie Street (SITE ID 1244) and Adjacent Land beneath Beatty Street (SITE ID 15721), Vancouver, BC, PID: 009- 860-991	Ministry of Environment and Climate Change Strategy	March 3, 2022
Request for Preapproval Under Protocol 6, 688 Cambie Street, Vancouver, BC, PID: 009-860-991, Site ID: 1244 & 15721	Thurber Engineering Ltd	October 27, 2021
Human Health and Ecological Risk Assessment, 688 Cambie Street, Vancouver, BC	Steer Environmental Associates Ltd.	July 2018
Environmental Summary for Temporary Modular Housing, 688 Cambie Street, Vancouver, BC	Thurber Engineering Ltd.	June 29, 2018
Progress Report, Dual Phase Extraction System (DPES) Decommission	Keystone Environmental Ltd.	May 29, 2017
Site Profile – 688 Cambie Street	SNC-Lavalin Inc.	November 8, 2016
Site Risk Reclassification Site 1244 & 15721	BC Ministry of Environment	October 3, 2016
Summary of Site Condition, 688 Cambie Street, Vancouver, BC (Site ID: 8071)	SNC-Lavalin Inc.	July 28, 2016
Site Risk Classification Report	SNC-Lavalin Inc.	July 28, 2016
Water Use Determination at 688 Cambie Street, Vancouver, BC	SNC-Lavalin Inc.	May 5, 2016

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Signing Authority For Director, Environmental Management Act

Document Title	Author / Company	Document Date
Q1 2016 Additional Investigation at 688 Cambie Street, Vancouver, BC	SNC-Lavalin Inc.	April 29, 2016
Mann-Kendall Toolkit for Trend Analysis	SNC-Lavalin Inc.	April 20, 2016
2015 Groundwater Monitoring, Sampling, and Geophysical Survey at 688 Cambie Street, Vancouver, BC	SNC-Lavalin Inc.	July 29, 2015
High Risk Site – Reporting Requirements, Source Site: 688 Cambie Street, Vancouver, PID: 009-860-991	BC Ministry of Environment	February 12, 2015
Summary of Findings, Off-Site Investigations along Beatty Street, Adjacent to 688 Cambie Street, Vancouver, BC	Active Earth Engineering Ltd.	April 29, 2014
Re: Notification of Likely or Actual Offsite Migration to Neighbouring Property from 688 Cambie Street, Vancouver, BC	BC Ministry of Environment	November 20, 2013
Re: High Risk Site Conditions - Notification of Likely or Actual Offsite Migration, Source Site: 688 Cambie Street, Vancouver, BC, PID: 009-860-991	BC Ministry of Environment	November 6, 2013
Notification of Likely or Actual Off-Site Migration, Beatty Street between West Georgia Street and Dunsmuir Street, Vancouver, BC	Active Earth Engineering Ltd.	September 17, 2013
Groundwater Quality Assessment, 688 Cambie Street, Vancouver, BC	Active Earth Engineering Ltd.	December 17, 2012
Stage 2 Preliminary Site Investigation, Northern Acre – 688 Cambie Street, Vancouver, BC	Active Earth Engineering Ltd.	November 2012
150 Dunsmuir Street, Vancouver, BC – Remediation System	Keystone Environmental Ltd.	December 2007
Report of Findings, Preliminary Site Investigation Stage 1, 150 Dunsmuir Street/688 Cambie Street, Vancouver, BC	Keystone Environmental Ltd.	June 2006
Supplemental Soil and Groundwater Investigation Letter – Beatty Street	Keystone Environmental Ltd.	January 2006
December 2004 Groundwater Sampling Letter	Keystone Environmental Ltd.	January 2005
Client Brief and Schedule 8 Drawings	Keystone Environmental Ltd.	February 2000

6. Step L

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Document Title	Author / Company	Document Date	
Summary of Previous Investigation and	Keystone	August 9, 1999	
Remediation Activities	Environmental Ltd.	August 9, 1999	
Status Report – 150 Dunsmuir Street	City of Vancouver	July 14, 1999	
Soil Tables	Keystone	January 1,	
	Environmental Ltd.	1999	
Interim Closure Report, 150 Dunsmuir Street,	Keystone	March 1995	
Vancouver, BC	Environmental Ltd.	March 1995	
Site Investigation and Remedial Plan, 150 Dunsmuir	Keystone	August 1002	
Street, Vancouver, BC	Environmental Ltd.	August 1993	
Report of Findings, July 13, 1993	O'Connor Associates	July 1993	
	Environmental Inc.	July 1995	
Deport of Findings April 7, 1002	O'Connor Associates	Amril 1003	
Report of Findings, April 7, 1993	Environmental Inc.	April 1993	

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October 6, 2022 Date Issued

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