



# Phase I Environmental Site Assessment

9 Erskine Lane, View Royal, British Columbia

Prepared for:

# WestUrban Developments Ltd.

1-1170 Shoppers' Row Campbell River, BC V9W 2C8

Attn: Frank Limshue Development Manager

July 25, 2019

Pinchin File: 243564.000



Issued To:	WestUrban Developments Ltd.		
Contact:	Frank Limshue		
	Development Manager		
Issued On:	July 25, 2019		
Pinchin File:	243564.000		
Issuing Office:	Richmond, BC		
Primary Contact:	Rio Roessaptono, M.Eng., P.Eng., Project Manager,		
	604.238.2908		
	rroessaptono@pinchin.com		

Author:

Jessica Pagotto, B.Sc. Senior Project Coordinator 250.551.6875 jpagotto@pinchin.com

Reviewer:

Tadd Berger, M.Sc., EP, P.Ag., CSAP Operations Manager; Practice Leader 604.238.2938 tberger@pinchin.com



### **EXECUTIVE SUMMARY**

Pinchin Ltd. (Pinchin) was retained on June 7, 2019 through an Authorization to Proceed, Limit of Liability and Terms of Engagement signed by Frank Limshue of WestUrban Developments Ltd. (Client) to conduct a Phase I Environmental Site Assessment (ESA) of the property located at 9 Erskine Lane, View Royal, British Columbia (hereafter referred to as the Site).

The Site is developed with a two-storey single-family residential dwelling (Site Building A), and a detached garage (Site Building B).

Pinchin was advised by the Client that the purpose of the Phase I ESA was to assess potential issues of environmental concern in relation to the potential acquisition and future redevelopment of the Site.

The Phase I ESA was completed in general accordance with the Canadian Standards Association (CSA) document entitled *"Phase I Environmental Site Assessment, CSA Standard Z768-01"* dated November 2001 (reaffirmed 2016) and the general requirements of the BC Contaminated Sites Regulation (CSR), including a review of readily-available historical records, a review of readily-accessible regulatory records, a Site reconnaissance, interviews, an evaluation of information and reporting, subject to the limitations outlined in Section 8.0 of this report.

Based on the results of the Phase I ESA completed by Pinchin, the following could result in potential subsurface impacts at the Site:

- On-Site metal impacted fill resulting for landfilling on 7 Erskine Lane; and
- Metal and hydrocarbon impacted soils on 7 Erskine Lane resulting from historical welding, machine shops, boat building/repair, paint removal, landfilling and sandblasting.

Based on information reviewed in Section 3.6, it is Pinchin's understanding that the owner of 7 Erskine Lane intends to conduct independent remediation both on their property and on-Site in an effort to obtain a Certificate of Compliance (CoC) for both properties. It is proposed that remedial activities and closure soil sampling will be conducted prior to the redevelopment of each property. Pinchin notes that a CoC would be required prior to the redevelopment of the Site and would also improve environmental quality by reducing risks to human health and the environment. As such, Pinchin is not recommending a Phase II ESA at this time. However, progress towards obtaining a CoC for 7 Erskine and the affected portions of the Site should be monitored.

Given the year of construction of the Site Buildings (i.e., approximately 1940s), there is a potential for friable and non-friable asbestos-containing materials (ACMs) to be present in the Site Buildings. Pinchin did not conduct an asbestos survey as part of this Phase I ESA, nor was any destructive or intrusive sampling or inspection conducted as part of this Phase I ESA. The Site Representative advised Pinchin



that no asbestos surveys have been previously conducted at the Site, and that an Asbestos Management Program has not been developed for or implemented at the Site.

This Executive Summary is subject to the same standard limitations as contained in the report and must be read in conjunction with the entire report.



### TABLE OF CONTENTS

1.0	INTRO	DDUCTION	1
	1.1 1.2	Background Scope of Work	
2.0	SITE	DESCRIPTION	2
	2.1 2.2 2.3	Site Location and Physical Description Topographic, Geologic and Hydrogeological Setting Site Operations	3
3.0	HISTO	DRICAL RECORDS REVIEW	4
	3.1 3.2 3.3 3.4 3.5 3.6 3.7	Site Interviews and Records. Aerial Photographs and Satellite Imagery. Fire Insurance Plans. City Directories Land Titles. Previous Environmental Reports. Historical Summary.	5 7 7 8 8
4.0	REGL	JLATORY INFORMATION AND CORRESPONDENCE	. 12
	4.1 4.2 4.3 Atlas	Site Regulatory Information Local and Municipal Government British Columbia Ministry of Environment and Climate Change Strategy Water Resourc 13	12 e
	4.4 4.5	ERIS and British Columbia Ministry of the Environment Site Registry Regulatory Information Summary	
5.0	SITE	RECONNAISSANCE	
	5.1 5.2 5.3 5.4 5.5 5.6 5.7 5.8 5.9 5.10 5.11 5.12 5.13	Hazardous Materials Storage Tanks	15 15 16 16 17 17 17 18 19 19 19 20 20
6.0	ACTI	/ITIES ON ADJACENT PROPERTIES	. 20
7.0	FINDI	NGS AND RECOMMENDATIONS	. 21
8.0	TERM	IS AND LIMITATIONS	. 22
9.0	REFE	RENCES	. 23



### **FIGURES**

FIGURE 1	Кеу Мар
FIGURE 2	Site and Surrounding Land Use Plan

## APPENDICES

APPENDIX I	Current Land Title of the Site
APPENDIX II	BC MOECCS Water Resource Atlas Search Result
APPENDIX III	ERIS Report
APPENDIX IV	Qualifications of Assessor
APPENDIX V	Photographs



### 1.0 INTRODUCTION

### 1.1 Background

Pinchin Ltd. (Pinchin) was retained on June 7, 2019 through an Authorization to Proceed, Limit of Liability and Terms of Engagement signed by Frank Limshue of WestUrban Developments Ltd. (Client) to conduct a Phase I Environmental Site Assessment (ESA) of the property located at 9 Erskine Lane, View Royal, British Columbia (hereafter referred to as the Site).

The Site is developed with a two-storey single-family residential dwelling (Site Building A), and a detached garage (Site Building B).

Pinchin was advised by the Client that the purpose of the Phase I ESA was to assess potential issues of environmental concern in relation to the potential acquisition and future redevelopment of the Site.

### 1.2 Scope of Work

The Phase I ESA was completed in general accordance with the Canadian Standards Association (CSA) document entitled "*Phase I Environmental Site Assessment, CSA Standard Z768-01*" dated November 2001 (reaffirmed 2016) and the general requirements of the BC Contaminated Sites Regulation (CSR), including a review of readily available historical and regulatory records, a Site reconnaissance, interviews, an evaluation of information and reporting, all subject to the limitations outlined in Section 8.0 of this report.

Pinchin conducted a Site reconnaissance on June 12, 2019, and was accompanied by Ms. Joanne Adams, part owner of the Site since their family acquired the Site in 1963, and hereafter referred to as the Site Representative.

In addition, Pinchin reviewed the following documents as provided by the Client:

- Report entitled "Draft PSI, DSI and Remediation Plan, 7 Erskine Lane, View Royal, BC" prepared for 1132785 BC Ltd., prepared by Islander Engineering (Islander) and dated April 2018 (2018 Islander Draft PSI, DSI and Remediation Plan Report);
- Memo entitled "Scenario 5 Release Request –Rezoning and Development Permit Application Approved Professional Opinion Letter for 7 Erskine Lane, View Royal, PID: 018-361-790" prepared for the Ministry of Environment and Climate Change Strategy Land Remediation Section, prepared by TRI Environmental Consulting Inc. (TRI) and dated April 25, 2018 (2018 TRI Scenario 5 Release Request); and
- Report entitled *"Authorization Agreement, Proposed Remediation for 7 Erskine Lane, View Royal, BC"* between 1132785 BC Ltd. (Dustin Lamoureux), owner of 7 Erskine Lane



and Darlene Grigull, Executrix of the Site and dated May 29, 2018 (2018 Proposed Remediation Agreement).

### 2.0 SITE DESCRIPTION

### 2.1 Site Location and Physical Description

As indicated on Figure 1 (Key Map), the Site is located immediately east of the intersection of Erskine Lane and Watkiss Way, in View Royal, British Columbia. Pinchin notes that View Royal is a town in Greater Victoria. A right-of-way for a municipal water line transects the Site, separating it into a north and south portion. The Site is situated in an area that predominantly consists of commercial and residential land uses. Figure 2 illustrates the Site and surrounding area.

Торіс	Details		
Latitude and Longitude	48° 27' 54.27" North and 123° 26' 10.24" West.		
Approximate Site Area	2.1 hectares (5.3 acres).		
Buildings on-Site	Site Building A: Located on the south-central portion of the Site. Site Building B: Located on the south-central portion of the Site.		
Approximate Year of Construction and Significant Additions or Renovations	1940s.		
Number of Floors (Including ground level)	Site Building A: Two, in addition to one subsurface level. Site Building B: One.		
Subsurface Levels	Site Building A: One. Site Building B: None observed and none reported by the Site Representative.		
Approximate Footprint Areas of Buildings	Site Building A: 115 square metres (m <sup>2</sup> ) (1,215 square feet (ft <sup>2</sup> )). Site Building B: 20 m <sup>2</sup> (200 ft <sup>2</sup> ).		
Approximate Total Areas of Buildings	Site Building A: 345 m <sup>2</sup> (3,645 ft <sup>2</sup> ). Site Building B: 20 m <sup>2</sup> (200 ft <sup>2</sup> ).		
Heating / Cooling	Site Building A: Oil-fuelled forced air furnace. Site Building B: None observed and none reported by the Site Representative.		

A summary of the physical description of the Site, including the Site Buildings, is provided below:



Торіс	Details
Elevators	None observed and none reported by the Site Representative.
Emergency Generators	None observed and none reported by the Site Representative.
Landscaped / Grassed/Bare Ground Areas	The majoring of the Site is occupied by forested land.
Paved or Other Sealed Surface Materials	None observed.

# 2.2 Topographic, Geologic and Hydrogeological Setting

Торіс	Findings	
Topography of Site and Surrounding Area	The Site is generally at a higher elevation than the surrounding properties. There is a regional slope down to the south-southwest.	
Site Grade Relative to the Adjoining Properties	The adjoining property to the north of the northern portion of the Site is approximately 2 meters (m) higher in elevation than the Site. The adjoining property to the north of the south portion of the Site is between approximately 1 m and 10 m lower in elevation than the Site. The adjoining property to the east of the Site is between approximately 0 m and 4 m higher in elevation than the Site, with a gradual slope downgradient beyond the adjacent property. The adjoining property to the south of the Site is between approximately 0 m and 10 m lower in elevation than the Site. The adjoining property to the west of the Site is between approximately 0 m and 5 m lower in elevation than the Site.	
Subsurface Soils	Based on the findings of the 2018 Islander Draft PSI, DSI and Remediation Plan Report, the subsurface generally consists of sandy gravel with crushed rock, sandy silt, silty sand and clay.	
Fill Materials	Based on information reviewed in Section 3.6, landfilling has been identified at 7 Erskine Lane (adjacent property to the east). Metal impacted fill has also been identified to be encroaching onto the Site by approximately 5 to 6 m. Refer to Section 3.6 for further discussion on fill materials.	
Bedrock Type	Westcoast Crystalline Complex; quartz diorite, tonalite, hornblende- plagioclase gneiss, quartz-feldspar gneiss, amphibolite, diorite, agmatite, gabbro, marble and metasediments (iMap BC).	
Inferred Bedrock Depth	During the Site reconnaissance Pinchin observed bedrock outcrops to the north and east of the Site.	



Торіс	Findings
Inferred Groundwater Depth	Based on the findings of the 2018 Islander Draft PSI, DSI and Remediation Plan Report groundwater is located between 5 meters below ground surface (mbgs) and 6 mbgs.
Nearest Open Water Body	Craigflower Creek is located approximately 130 m southwest of the Site.
Inferred Groundwater Flow Direction	South-southwest based on topography and the nearest body of water.

### 2.3 Site Operations

Site Building A is a two-storey single-family dwelling with a basement. Site Building B is a detached garage and is located adjacent to the west of Site Building A. A pool and pump house are located to the south of the Site Buildings. A diesel aboveground storage tank (AST) and a propane AST are located on the exterior of Site Building A. A municipal water line divides the Site into north and south portions. The remainder of the Site is treed land.

Further details regarding on-Site operations are provided in Section 5.0.

### 3.0 HISTORICAL RECORDS REVIEW

### 3.1 Site Interviews and Records

The Site Representative advised Pinchin of the following with respect to the historical occupancy and operations at the Site:

- The Site Buildings were constructed in approximately 1940 with minor interior renovations in subsequent years;
- Occupants of the Site Buildings have always been residents;
- No dry cleaning operations have historically taken place at the Site;
- No retail fuel outlets (RFOs) have operated at the Site; and
- The adjacent property to the east (7 Erskine Lane) has submitted a Notification about Likely or Actual Substance Migration pertaining to landfilling which has encroached onto the Site. Refer to Section 3.6 for further discussion on the environmental impacts resulting from on-property activities at 7 Erskine Lane.

Pinchin also interviewed Mr. Josh Bartley from Islander Engineering Ltd. Mr. Bartley is the lead engineer overseeing the environmental investigations both at 7 Erskine Lane as well as on-Site.



### 3.2 Aerial Photographs and Satellite Imagery

Copies of aerial photographs dated 1932, 1946, 1949, 1956, 1964, 1968, 1974, 1979, 1986, 1992, 1997 and 2005 were obtained from the UBC Geographic Information Centre (GIC) in Vancouver, BC and reviewed by Pinchin. In addition, Pinchin reviewed Google Earth<sup>™</sup> satellite imagery dated 2010, 2015 and 2018.

A summary of information inferred with respect to the Site is provided in the following table:

Year of Photograph	Site
1932	The Site appears to be occupied by undeveloped forested land.
1946 to 1968	The Site appears to be occupied by a building similar in size and configuration to the current Site Building A as well as forested land.
1974	Similar to 1968; however, the Site appears to be separated into north and south portions by the present-day municipal water line. Site Building A is constructed on the south portion of the Site.
1979 to 2018	Similar to 1974. A building similar in size and configuration to the current the Site Building B appears to have been constructed. A pool also appears to be located to the south of the Site Buildings.

A summary of information inferred with respect to the surrounding area is provided in the following table:

Year of Photograph	North	East	South	West
1932 to 1946	Undeveloped forested and agricultural land.	Undeveloped forested and agricultural land.	Erskine Lane followed by undeveloped forested and agricultural land.	Undeveloped forested and agricultural land.
1949 to 1968	Similar to 1946.	An agricultural property followed by single-family residential dwellings and Highway 1.	Erskine Lane followed by few single-family residential dwellings and undeveloped land.	Similar to 1946.



Year of Photograph	North	East	South	West
1974	Similar to 1968.	A commercial property with an exterior storage yard used for boats and vehicles. This is followed by single-family residential dwellings and Highway 1.	Similar to 1968.	Similar to 1968.
1979	Undeveloped forested land followed by a property which appears to be under development.	Similar to 1974.	Similar to 1974.	Similar to 1974.
1986	Undeveloped forested followed by a portion of Hospital Way. This is followed by an inferred hospital.	Similar to 1979.	Similar to 1979.	Similar to 1979.
1992	Undeveloped forested and gravelled land followed by a portion of Hospital Way. This is followed by an inferred hospital.	Similar to 1986.	Similar to 1986.	Similar to 1986.
1997	Similar to 1992; however, Hospital Way has been fully constructed.	Similar to 1992.	Similar to 1992 with the construction of additional single- family residential dwellings.	Watkiss Way followed by agricultural and undeveloped land.



Year of Photograph	North	East	South	West
2005 to 2015	Similar to 1997.	Similar to 1997.	Similar to 1997.	Watkiss Way followed by single-family residential dwellings and undeveloped land.
2018	Similar to 2015.	Similar to 2015.	Similar to 2015.	Similar to 2015; however, the majority of the previously observed undeveloped land appears to be occupied by agricultural land.

Based on information reviewed in Sections 3.4 and 3.6, Jenkins Marine Ltd. (boat repair/servicing facility), has operated to the east of the Site since the 1970s (also identified as 7 Erskine Lane). Pinchin has identified that the commercial property with an exterior storage yard used for boats and vehicles to be Jenkins Marine Ltd. This property appeared to be occupied by Jenkins Marine Ltd. in the 1974 to 2018 aerials photographs. Refer to Section 3.6 for further discussion on the environmental impacts resulting from on-property activities at 7 Erskine Lane.

### 3.3 Fire Insurance Plans

The Catalogue of Canadian Fire Insurance Plans 1875-1975 does not list the Site or surrounding area. Therefore, no Fire Insurance Plans (FIPs) could be obtained for review.

### 3.4 City Directories

City directories for the years 1940 to 1999 were reviewed by Pinchin at the Vancouver Public Library, in Vancouver, British Columbia. It should be noted that no city directories were available for the City of Victoria subsequent to 1999. A summary of information obtained with respect to the Site is provided in the following table:

Year(s)	Occupant Listings for Site Address		
1940 t0 1960	Not listed		
1970 to 1999	Residential		



In general, the city directories indicated that the surrounding area has historically consisted of commercial and residential land uses since 1940. No historical dry cleaning operations, RFOs or other operations of potential environmental concern were identified, with the exception of the following:

Jenkins Marine Ltd. (boat repair/servicing facility) and Don's Boat Transport, were listed at 5 Erskine Lane from 1975 until 1999. Pinchin notes that 5 Erskine Lane is located approximately 60 m southeast of the Site and is situated hydraulically down to transgradient of the Site relative to the inferred groundwater flow direction. Based on information reviewed in Section 3.6, Pinchin notes that 5 Erskine Lane and 7 Erskine Lane may have historically comprised a lager property. Refer to Section 3.6 for further discussion on the environmental impacts resulting from on-property activities at 7 Erskine Lane.

### 3.5 Land Titles

A copy of the current land title was obtained by Pinchin from BC Online. Based on information obtained from BC Online, the Site is described as "Lot B, Section 93, Esquimalt District Plan 26648, Except Part in Plan VIP62088". The land title indicated that "Beverley Adams" was listed as the registered owner of the Site at the time of this assessment. No liens or other encumbrances indicating potential environmental concern were noted within the current title.

A copy of the current land title is included in Appendix I.

### 3.6 **Previous Environmental Reports**

### 2018 Islander Draft PSI, DSI and Remediation Plan Report

Islander conducted a series of investigations at 7 Erskine Lane in order to supplement previous investigations in the overall effort to obtain a Certificate of Compliance (CoC) for the property. According to the report, Areas of Potential Environmental Concern (APECs) were identified at the property resulting from previous on-property activities under the ownership of Jenkins Marine. The APECs included:

- Welding or machine shops;
- Dry docks, ship building or boat repair and maintenance, including pain removal from hulls;
- Construction demolition material, including without limitation asphalt and concrete landfilling; and
- Sand blasting waste disposal.



Pinchin notes that the main on-property building, located approximately 10 m east of the Site, contains a repair shop, fabrication bay and storage bay. The landfilling was identified throughout the property and adjacent to the east of the southern portion of the Site. The landfilling was also identified to be encroaching onto the Site by approximately 5 to 6 m.

It was reported that the proposed future redevelopment plans for the property included a multi-tenant residential complex with a single level of underground parking. As such, High Density Residential land use standards, which include intake of contaminated soil, groundwater used for drinking water, toxicity to soil invertebrates and plants and groundwater used for freshwater and marine aquatic life, were considered applicable to the property. Pinchin notes that the future redevelopment plans for the Site are similar to that of 7 Erskine Lane. Therefore, these standards are also considered applicable to the Site.

Test pitting and drilling were conducted on the property between April and August 2017. Three boreholes were installed on the property (IEL-BH131-MW, IEL-BH130-MW and IEL-BH127- MW), one of which was installed near the eastern Site boundary (IEL-BH130-MW), in the location of the identified fill. Several test pits were also dug along the eastern Site boundary as well as on-Site. Submitted soil samples were analyzed for light and heavy extractable petroleum hydrocarbons (LEPH and HEPH), polycyclic aromatic hydrocarbons (PAH), volatile petroleum hydrocarbons (VPH), volatile organic compounds (VOCs), metals and leachate quality (TCLP). Select metals, LEPH, HEPH and benzene concentrations were reported above the applicable CSR standards on the property. A metal exceedance was reported within the Site boundaries. In addition, several soil samples exceeded CSR Protocol 11 Upper Cap Concentrations for Human Health and Ecological Heath, including locations adjacent to the Site boundary. No exceedances of the Hazardous Waste Regulation (HWR) Schedule 4 Table 1 standards for leachate quality were reported

Submitted groundwater samples were analyzed for LEPH, HEPH, PAH, VPH, VOCs, dissolved metals and glycols. Concentrations in groundwater met the applicable CSR standards. It was reported that the groundwater wells were dry in the summer months and two of the three wells had groundwater present in the winter months. Given that the property has a moderate steep slope to the south-southwest, it was inferred that groundwater flow is in a similar direction.

No direct soil vapour sampling was completed; however, soil vapour concentrations were estimated using detectable parameters in soil. No parameters for groundwater were detectable, however soil vapour concentrations were estimated using detection limits for those parameters detected in soils. Estimates were made using recommended partitioning equations, as described in Exhibit 2 of Health Canada's Federal Contaminated Risk Assessment in Canada: Guidance for Soil Vapour Intrusion Assessment at Contaminated Sites. Estimated soil vapour concentrations meet applicable standards for the property without the application of any attenuating factors.



Following the investigations, contaminated soils were identified in the following two areas:

- Placed Fill Soils (approximately 1500m<sup>3</sup>): along the south slope and along the toe of the slope of the property near the south and west sides and extending west onto the Site; and
- Surficial Soils (approximately 750m<sup>3</sup>): primarily near the historical boat fabrication areas. The main contamination in this area is metals with one location indicating a shallow hydrocarbon impact. In the northeast portion of the property, the surficial contamination is bounded vertically by shallow bedrock.

It was reported that contaminated soils would be removed from the property during redevelopment, which was projected to begin in the summer of 2018.

### 2018 TRI Scenario 5 Release Request

TRI completed a Scenario 5 Release Request as part of a rezoning and development permit application for 7 Erskine Lane. TRI reviewed the historical investigations completed at the property and concluded that the extent of contamination in the fill areas have been estimated from the placement of the fill which can be visually distinguished by elevation and stratigraphy.

As it pertains specifically to the Site, TRI reported that soil contamination extends onto the Site and is associated with the metal impacted fill soil. The extent of the fill soil is visible by depth, colour and texture and it appears visually to only exceed the western property line by approximately 6 m. Only metal contamination was identified in samples collected from soils along the property's western property boundary. TRI reported that there remains a need for horizontal and vertical delineation through soil analyses on-Site. Ten soil samples reported metal concentrations of one or more of arsenic, copper, lead or zinc above either or both of the Human Health or Ecological Upper Cap Concentrations listed in Protocol 11. Six of the samples are present at less than one meter below grade and four at depths greater than one meter below grade. Two of the samples are located at depths greater than one meter below grade.

TRI reported that hydrocarbon impacts associated with the fill layers have been horizontally and vertically delineated and are present within the property boundaries. However, it was reported that there is incomplete analytical delineation of one petroleum hydrocarbon sample exceeding the standards in the surficial soils located west of the main fabrication building, both horizontally to the west and vertically. TRI reported that there are plans to finalize the delineation during proposed the excavation and disposal of the impacted soils.



TRI reported that there is a commitment from the property owner to pursue independent remediation and to procure a CoC for their property as well as the Site.

### 2018 Proposed Remediation Agreement

The Proposed Remediation Agreement between Dustin Lamoureux of 1132785 BC Ltd. (owner of 7 Erskine Lane) and Darlene Grigull (Executrix of the Site) was established as part of the proposed redevelopment of 7 Erskine Lane. According to the agreement, former on-property activities at 7 Erskine Lane have included boat maintenance and repair as well as landfilling with soils of unknown origin. These activities have resulted in on-property subsurface contamination as well as subsurface contamination at the shared Site boundary (approximately 6 m into the Site from the shared boundary). It is proposed that as part of the re-development process, subsurface contamination at the property and Site will be remediated. The proposed scope of work for this remediation will include 5 m from the Site boundary into the Site and will include:

- Sediment and erosion control measures;
- Grubbing and shrubbery removal as needed;
- Excavation and removal of approximately 100 m<sup>3</sup> of contamination soil;
- Collection of surficial soil samples following the excavation to confirm sufficient contaminated soil removal; and
- Placement of clean fill soils in the excavation.

The agreement also includes a Notice of Likely or Actual Migration dated April 2018 between the source property and the Site. The notice reports the presence of benzene, arsenic, antimony, cadmium, copper, molybdenum, lead and zinc in fill materials encroaching onto the Site.

Based on a review of the above-noted reports, Pinchin notes that following:

- Metal impacted fill soil has been identified on-Site. The extent of the fill soil is visible by depth, colour and texture and it appears visually to only encroach onto the Site by approximately 6 m. However, the vertical and horizontal extent of the metal impacted fill has not been fully delineated;
- Metal and hydrocarbon contamination in soil have been identified on the property located adjacent to the east of the Site. While full delineation has not been achieved on the property, hydrocarbon impacted soil has been reportedly delineated within the property boundaries. Groundwater and soil vapour impacts have not been identified;
- Ten soil samples reported metal concentrations of one or more of arsenic, copper, lead or zinc above either or both of the Human Health or Ecological Upper Cap



Concentrations listed in Protocol 11. Six of the samples are present at less than one meter below grade and four at depths greater than one meter below grade. Two of the samples are located on the western property line between the property the Site; however, these samples are located at depths greater than one meter below grade; and

• No exceedances of the HWR Schedule 4 Table 1 standards for leachate quality were reported.

Based on the information reviewed above, as well as Pinchin's telephone correspondence with Islander, there is an agreement with the owner of 7 Erskine Lane to pursue independent remediation and to obtain a CoC for their property as well as the Site. Remedial activities on-Site will include excavation and closure soil sampling in order to confirm remediation has been achieved.

Pinchin notes that a CoC would be required for the future redevelopment of the Site and would certify that the Site has been satisfactorily remediated to meet the applicable standards set by the Environmental Management Act and CSR. A CoC for the Site and 7 Erskine Lane would also improve environmental quality by reducing risks to human health and the environment.

## 3.7 Historical Summary

Based on the results of the historical review, the following could result in potential subsurface impacts at the Site:

• Jenkins Marine Ltd., located at 7 Erskine Lane, which has operated adjacent to the east of the Site since the 1970s and has resulted in subsurface impacts in soil, both on-property and at the Site.

### 4.0 REGULATORY INFORMATION AND CORRESPONDENCE

### 4.1 Site Regulatory Information

The Client provided Pinchin with a copy of the following regulatory information:

• A Notice of Likely or Actual Substance Migration from a Neighbouring Property dated April 2018 was submitted for off-site migration from 7 Erskine Lane (source property) and the Site. The notice identifies the presence of benzene, arsenic, antimony, cadmium, copper, molybdenum, lead and zinc in fill materials encroaching onto the Site.

### 4.2 Local and Municipal Government

The Town of View Royal Fire Department was contacted to request copies of any records pertaining to the installation or removal of storage tanks. The Town indicated that it does not maintain records related to storage tanks.



# 4.3 British Columbia Ministry of Environment and Climate Change Strategy Water Resource Atlas

A search of existing wells in the area on the British Columbia Ministry of Environment and Climate Change Strategy (MOECCS) Water Resource Atlas well database indicated that there were six wells located within a 500 m radius of the Site; four of unknown use and two of private domestic use. The nearest well is located approximately 90 m south of the Site. The search results are located in Appendix II.

# 4.4 ERIS and British Columbia Ministry of Environment and Climate Change Strategy Site Registry

Pinchin submitted a request to Environmental Risk Information Service Ltd. (ERIS) for a review of the following databases, as they pertain to the Site and surrounding properties:

- "Authorization Management System (formerly WASTE)";
- "Compliance and Enforcement Summary";
- "Contaminated Sites on Federal Land";
- "Inventory of PCB Storage Sites";
- "Scott's Manufacturing Directory";
- "National Pollutant Release Inventory";
- "Waste Receivers Summary";
- "Receivers Special Waste Information System (SWIS)";
- "Waste Generators Summary";
- "Generators Special Waste Information System (SWIS)";
- "Waste Disposal Site Inventory";
- "National Environmental Emergencies System (NEES)";
- "Hazardous Waste Facilities";
- "BC Oil and Gas Commission Incidents";
- "Surrey Tank Construction Permits";
- "Site Registry"; and
- "Retail Fuel Storage Tanks".

A copy of the ERIS report is provided in Appendix III. Based on a review of the information obtained from the above-noted sources, Pinchin notes the following:



- The Site was listed in the Site Registry (ID 21587). According to the detailed report, a Notice of Likely or Actual Substance Migration from a Neighbouring Property dated April 2018 was submitted for off-site migration from 7 Erskine Lane (ID 21586) (the source property to the east) and the Site. The Site is identified as a non-high risk. Refer to Section 3.6 for further discussion on the environmental impacts resulting from onproperty activities at 7 Erskine Lane;
- 7 Erskine Lane is listed in the Site Registry (ID 21586). According to the detailed report, a Notice of Independent Remediation Initiation and a Notice of Likely or Actual Substance Migration from a Neighbouring Property were submitted to the MOECCS in May 2018. The affected parcel is the Site (ID 21587). The property was identified as high risk. The property was issued a freeze release under Scenario 5 in July 2018. The MOECCS noted that remediation on the property was to be completed within five years of the issuance of the freeze release. Refer to Section 3.6 for further discussion on the environmental impacts resulting from on-property activities at 7 Erskine Lane;
- Jenkins Marine Ltd., located a 5 Erskine Lane, is listed in Scott's Manufacturing Directory for boat building. This business is also listed in the unplottable summary for the generation of used waste oil absorbent products. Pinchin notes that 5 Erskine Lane is located approximately 60 m southeast of the Site and is situated hydraulically down to transgradient of the Site relative to the inferred groundwater flow direction. Based on information reviewed in Section 3.6, Pinchin notes that 5 Erskine Lane and 7 Erskine Lane may have historically comprised a lager property. Refer to Section 3.6 for further discussion on the environmental impacts resulting from on-property activities at 7 Erskine Lane; and
- The remaining properties, including those listed in the unplottable summary, are located more than 100 m from the Site. Based on distance, these properties did not warrant further discussion.

### 4.5 Regulatory Information Summary

Based on Pinchin's review of the regulatory information reviewed, the following could result in potential subsurface impacts at the Site:

• Jenkins Marine Ltd., located at 7 Erskine Lane, which has operated adjacent to the east of the Site since the 1970s and has resulted in subsurface impacts in soil, both on-property and at the Site.



### 5.0 SITE RECONNAISSANCE

Pinchin (see Appendix IV for assessor qualifications) conducted a Site reconnaissance on June 12, 2019, and was accompanied by the Site Representative. The Site reconnaissance included a walk-through of accessible areas of the interior of the Site Buildings and exterior areas. At the time of the Site reconnaissance, the ground surface was dry, and the weather was clear. The Site reconnaissance was documented with notes and photographs. The results of the Site reconnaissance are discussed below. Photographs of some of the features noted during the Site reconnaissance are attached in Appendix V.

### 5.1 Hazardous Materials

Торіс	Findings
Chemicals	Chemicals typically used for general purpose cleaning, body aesthetics and building maintenance (e.g., window cleaners, hair dye, bleach, paints, deodorizers, etc.) were noted on-Site at the time of the Site reconnaissance. Chemicals observed on-Site were stored within manufacturer-supplied containers in various locations throughout Site Building A.
	Pool chemicals are stored in the pump house.
	Diesel stored in a steel AST is located adjacent to Site Building A.
Compressed Gases	Propane (500-pound (lb) tank), used to fuel the on-Site dryer, is located adjacent to Site Building A. 20-lb cylinders of propane are stored in Site Building B. Based on the nature of propane gas, it is Pinchin's opinion that the storage of this compressed gas is unlikely to result in potential subsurface impacts at the Site.
Hazardous Waste	None observed and none reported by the Site Representative.

No spills or evidence of historical spills (i.e., staining) were observed in the chemical storage areas noted above. The interior floor slabs were was observed to be in good condition (i.e., no cracking or pitting) and the exterior ground surface in the vicinity of the diesel AST (a concrete slab surrounded by bare ground), was also in good condition. No floor drains or catch basins were present in the vicinity of the chemical storage areas.

### 5.2 Storage Tanks

5.2.1 Aboveground Storage Tanks

The following ASTs were observed on-Site:



Size	Construction Material	Single or Double Wall	Age	Product Stored	Location
250 litres	Steel	Single	Unknown	Diesel	Adjacent to Site Building A.
500 lbs	Steel	Single	Unknown	Propane	Adjacent to Site Building A.

Based on the nature of propane gas, it is Pinchin's opinion that the storage of this compressed gas is unlikely to result in potential subsurface impacts at the Site.

No spills or evidence of historical spills (i.e., staining) were observed in the vicinity of the diesel AST. The ground surface in the vicinity of the diesel AST (a concrete slab surrounded by bare ground), was also in good condition. No floor drains or catch basins were present in the vicinity of the diesel AST. Based on this, it is Pinchin's opinion that the diesel AST is unlikely to result in potential subsurface impacts at the Site.

## 5.2.2 Underground Storage Tanks

No evidence of underground storage tanks (USTs) (i.e., fill/vent pipes) was observed on-Site, and none were reported by the Site Representative. However, Pinchin notes that the Site Representative has not been associated with the Site since its development. Although USTs are commonly associated with buildings of this age (i.e., approximately 1940s), Pinchin was unable to confirm or refute the presence of former on-Site USTs. No evidence of former USTs was observed by Pinchin.

Торіс	Findings
Water Supply Source	Capital Regional District. Water is obtained by the CRD from the Sooke watershed. Groundwater is not used as a source of potable water.
Water Use	Water is primarily used for domestic-related activities.
Sanitary/Process Wastewater Receptor	A septic tank and associated septic bed are located on-Site; however, at the time of the Site reconnaissance, the Site Representative could not confirm the location. The Site Representative advised Pinchin that the septic system is strictly utilized for sanitary effluent. It was reported that the septic system is cleaned every five years by Coast VI.
Pits, Sumps or Lagoons	None observed and none reported by the Site Representative.

### 5.3 Water and Wastewater



Торіс	Findings
Grease Traps	A grease trap is associated with the septic tank in order to filter grease from kitchen drains prior to entering the septic tank.
Oil/Water Separators	None observed and none reported by the Site Representative.
Storm Water Flow and Receptor	Storm water would likely run overland to percolate naturally through the soil.
Wells	None observed and none reported by the Site Representative.
Watercourses, Ditches or Standing Water	None observed and none reported by the Site Representative.

### 5.4 Hydraulic Equipment

No evidence of hydraulic equipment (i.e., hydraulic hoists, elevators, compactors, dock levels, etc.) was identified at the Site during the Site reconnaissance.

### 5.5 Polychlorinated Biphenyls

The use of polychlorinated biphenyls (PCBs) as dielectric fluids in electrical equipment such as transformers, fluorescent lamp ballasts, and capacitors was common up to about 1980. The Federal PCB Regulations, SOR/2008-273, regulate the manufacture, import, export, sale, use and processing of PCBs. In addition, these regulations aim to eliminate the use of high level PCBs (greater than 500 milligrams per kilogram (mg/kg)), as well as low level PCBs (50-500 mg/kg) on or within 100 m of a "Sensitive Site" (e.g., drinking water treatment facility, feed/food processing plant, child care facility, schools, hospitals, etc.), by December 31, 2009. Light ballasts, pole top transformers, and other electrical equipment with low level PCBs (50-500 mg/kg) in non-sensitive sites are aimed to be eliminated by December 31, 2025.

Given the year of construction of the Site Buildings (i.e., approximately 1940s), there is a potential that the electrical equipment observed on-Site may contain PCBs. No transformers were observed on-Site. No hydraulic equipment was observed on-Site.

Typical buildings of this age may contain PCBs in paint, caulking and window putties. Testing for the presence of PCBs in these materials is beyond the scope of this Phase I ESA. The potential presence of PCBs in these materials could result in future costs if extensive renovation requiring removal of these materials or demolition activities are undertaken at the Site. The extent of such potential issues could not be assessed as part of this Phase I ESA.



### 5.6 Asbestos-Containing Materials

Asbestos-containing materials (ACMs) are commonly found in building construction materials (particularly in older buildings constructed prior to 1985). Friable asbestos (friable is defined as a material that can be crumbled, powdered or pulverized by hand pressure) was widely used in sprayed fireproofing until 1973, and in decorative or finishing plasters, and thermal systems insulation until the early 1980s. Non-friable or manufactured asbestos products were widely used in building construction including in vinyl floor tiles, sheet flooring, ceiling tiles, pipe gaskets, roofing materials, asbestos cement boards, and numerous other products until the mid-1980s. A very limited number of non-friable asbestos products in limited quantities are still in use currently in building construction.

Given the year of construction of the Site Buildings (i.e., approximately 1940s), there is a potential for friable and non-friable ACMs to be present in the Site Buildings. Pinchin did not conduct an asbestos survey as part of this Phase I ESA, nor was any destructive or intrusive sampling or inspection conducted as part of this Phase I ESA. The Site Representative advised Pinchin that no asbestos surveys have been previously conducted at the Site, and that an Asbestos Management Program (AMP) has not been developed for or implemented at the Site.

The potential presence of ACMs could result in management issues and future costs if renovation or demolition activities are undertaken at the Site. The extent of such potential issues could not be assessed as part of this Phase I ESA.

### 5.7 Lead-Containing Paints

Lead was commonly used as an additive in paints with no restricted level up until the mid-1970s. This included architectural paints used on interior and exterior surfaces, primers and coatings for anti-corrosive purposes, consumer paints, and paint on furniture and other household items. Beginning in 1976, the federal government limited the amount of lead in consumer paints to 5,000 parts per million (ppm) and steadily reduced the lead content, primarily in the interest of public safety. In 2005, the limit was reduced to 600 ppm and in 2010, the limit was further reduced to 90 ppm, however, there is no restriction on lead in paints used for anti-corrosion purposes (e.g., steel primers and exterior coatings) and road and line markings. In June 2016, these exemptions were removed and as of this date, any paint sold should not contain more than 90 ppm, even if sold for anti-corrosion purposes.

Pinchin did not conduct an assessment of lead in painted surfaces as part of this Phase I ESA, and the Site Representative advised Pinchin that no surveys have been previously conducted at the Site. Prior to any demolition or renovation activities, a designated substance survey (including lead) would be required. During Pinchin's Site reconnaissance, painted surfaces (where observed) were in good condition (i.e., no peeling or flaking).



### 5.8 Ozone-Depleting Substances

The bulk storage of ozone-depleting substances (ODSs) was not observed. The Site Representative reported that the bulk storage of ODSs has not been carried out at the Site.

Residential refrigeration units were observed on-Site. These units may include refrigerants, such as R22 or R12, that are noted within the phase-out schedules for elimination in both Provincial and Federal regulations. No other sources of ODSs were observed at the time of the Site reconnaissance.

### 5.9 Radon

Radon is a radioactive gas formed by naturally occurring radioactive breakdown of uranium in soil, rocks and even groundwater. Radon is invisible and odourless and, as such, cannot be detected by humans. Furthermore, radon escapes from the ground and mixes with outdoor air forming concentrations that are too low to be of concern; however, if radon enters a building the concentrations can increase to higher levels. Health Canada has developed guidelines for acceptable levels of radon in dwellings and public buildings and has indicated that radon levels should not exceed 200 Becquerel per cubic metre (Bq/m<sup>3</sup>); however, there are currently no regulations governing acceptable levels of radon within buildings, and no requirements for testing or mitigation if levels are found to exceed the current Health Canada guidelines. Testing for radon in the Site Buildings was beyond the scope of this Phase I ESA. The Site Representative reported that no radon surveys have been carried out at the Site.

### 5.10 Mould or Microbial Contamination

The presence of mould or other microbiological contamination in buildings has become a concern to building tenants and owners due to potential health effects on occupants and users. Provincial Ministries of Labour have recently issued guidelines on enforced regulations to protect the health of construction workers who are exposed to mould in the course of building renovation. The presence of water leaks or high humidity can cause the growth or amplification of mould within building environments.

A comprehensive inspection for mould, which would require intrusive testing, was not performed as part of this Phase I ESA. Visible mould or water-damaged areas were not observed at the time of the Site reconnaissance. The Site Representative was not aware of the presence of mould in the Site Buildings. In addition, the Site Representative was not aware of any historical leaks in the Site Buildings or past flooding events.



## 5.11 Air Emissions

Торіс	Findings	
Washroom Vents	Washroom vent exhausts are discharged through roof stacks.	
Kitchen Vents	Kitchen exhausts are discharged through roof stacks.	
Heating/Cooling	Site Building A: Oil-fuelled forced air furnace.	
	Site Building B: None observed and none reported by the Site Representative.	
Emergency Generators	None observed and none reported by the Site Representative.	
Process Vents	None observed and none reported by the Site Representative.	
Odours	No strong, pungent or noxious odours were identified.	
Permits / Approvals	The Site Representative advised Pinchin that Site Owner (Beverley Adams), does not hold any permits/approvals for the Site, as related to air emissions or discharges.	

## 5.12 Staining and Stressed Vegetation

No evidence of historical chemical discharges or releases (i.e., staining or stressed vegetation) was observed during the Site reconnaissance. The Site Representative reported that no known historical chemical spills have occurred on-Site.

### 5.13 Non-Hazardous Wastes

Торіс	Findings
Non-hazardous Wastes	Domestic refuse is deposited in plastic bins. The domestic refuse is removed for off-Site disposal weekly by the Town of View Royal.
Recyclables	Recyclables (i.e., cans, bottles, newsprint, plastics, and cardboard) are stored in plastic totes and are removed to an off-Site recycling facility bi-weekly by the Town of View Royal.

### 6.0 ACTIVITIES ON ADJACENT PROPERTIES

The Site is located in an urban area that predominantly consists of residential and commercial land use. A description of the adjacent properties is summarized in the following table, based on Pinchin's observations from the Site and publicly accessible locations:



	North	East	South	West
Operation or Activity	Undeveloped forested and gravelled land (a quarry). This is followed by Hospital Way and a hospital.	Jenkins Marine followed by single- family residential dwellings and Highway 1.	Erskine Lane followed by single-family residential dwellings.	Watkiss Way followed by single- family residential dwellings and agricultural land.
Direction with Respect to Inferred Groundwater Flow	Upgradient.	Down to transgradient.	Downgradient.	Down to transgradient.
Visible Emissions	None observed.	None observed.	None observed.	None observed.
Visible Outdoor Storage of Hazardous Materials	None observed.	Steel drums were observed adjacent to the Site boundary.	None observed.	None observed.

Based on Pinchin's observations of the adjacent properties at the time of the Site reconnaissance, the following could result in potential subsurface impacts at the Site:

 Jenkins Marine Ltd., located at 7 Erskine Lane, which has operated adjacent to the east of the Site since the 1970s and has resulted in subsurface impacts in soil, both onproperty and at the Site.

### 7.0 FINDINGS AND RECOMMENDATIONS

Based on the results of the Phase I ESA completed by Pinchin, the following could result in potential subsurface impacts at the Site:

- On-Site metal impacted fill resulting for landfilling on 7 Erskine Lane; and
- Metal and hydrocarbon impacted soils on 7 Erskine Lane resulting from historical welding, machine shops, boat building/repair, paint removal, landfilling and sandblasting.

Based on information reviewed in Section 3.6, it is Pinchin's understanding that the owner of 7 Erskine Lane intends to conduct independent remediation both on their property and on-Site in an effort to obtain a Certificate of Compliance (CoC) for both properties. It is proposed that remedial activities and closure soil sampling will be conducted prior to the redevelopment of each property. Pinchin notes that a CoC would be required prior to the redevelopment of the Site and would also improve environmental quality by reducing risks to human health and the environment. As such, Pinchin is not recommending a Phase II



ESA at this time. However, progress towards obtaining a CoC for 7 Erskine and the affected portions of the Site should be monitored.

Given the year of construction of the Site Buildings (i.e., approximately 1940s), there is a potential for friable and non-friable ACMs to be present in the Site Buildings. Pinchin did not conduct an asbestos survey as part of this Phase I ESA, nor was any destructive or intrusive sampling or inspection conducted as part of this Phase I ESA. The Site Representative advised Pinchin that no asbestos surveys have been previously conducted at the Site, and that an AMP has not been developed for or implemented at the Site.

### 8.0 TERMS AND LIMITATIONS

This Phase I ESA was performed in order to identify potential issues of environmental concern associated with the Site located at 9 Erskine Lane, View Royal, British Columbia, at the time of the Site reconnaissance. This Phase I ESA was performed in general compliance with currently acceptable practices for environmental site investigations, and specific Client requests, as applicable to this Site.

This report was prepared for the exclusive use of WestUrban Developments Ltd. (Client), subject to the terms, conditions and limitations contained within the duly authorized proposal for this project. Any use which a third party makes of this report, or any reliance on or decisions to be made based on it, is the sole responsibility of such third parties. Pinchin accepts no responsibility for damages suffered by any third party as a result of decisions made or actions conducted.

If additional parties require reliance on this report, written authorization from Pinchin will be required. Such reliance will only be provided by Pinchin following written authorization from Client. Pinchin disclaims responsibility of consequential financial effects on transactions or property values, or requirements for follow-up actions and costs. No other warranties are implied or expressed. Furthermore, this report should not be construed as legal advice. Pinchin will not provide results or information to any party unless disclosure by Pinchin is required by law.

The information provided in this report is based upon analysis of available documents, records and drawings, and personal interviews. In evaluating the Site, Pinchin has relied in good faith on information provided by other individuals noted in this report. Pinchin has assumed that the information provided is factual and accurate. In addition, the findings in this report are based, to a large degree, upon information provided by the current owner/occupant. Pinchin accepts no responsibility for any deficiency, misstatement or inaccuracy contained in this report as a result of omissions, misinterpretations or fraudulent acts of persons interviewed or contacted, or contained in reports that were reviewed. The scope of work for this Phase I ESA did not include an intrusive investigation for designated substances (i.e., asbestos, mould, etc.) and, therefore, these materials may be present in concealed areas.



Pinchin makes no other representations whatsoever, including those concerning the legal significance of its findings, or as to other legal matters touched on in this report, including, but not limited to, ownership of any property, or the application of any law to the facts set forth herein. With respect to regulatory compliance issues, regulatory statutes are subject to interpretation and these interpretations may change over time.

The CSA document entitled "*Phase I Environmental Site Assessment, CSA Standard Z768-01*" dated November 2001 (reaffirmed 2016), does not apply to environmental auditing or environmental management systems. Therefore, with respect to Site operations and conditions, compliance with applicable Federal, Provincial or Municipal acts, regulations, laws and/or statutes was not evaluated as part of the Phase I ESA.

## 9.0 REFERENCES

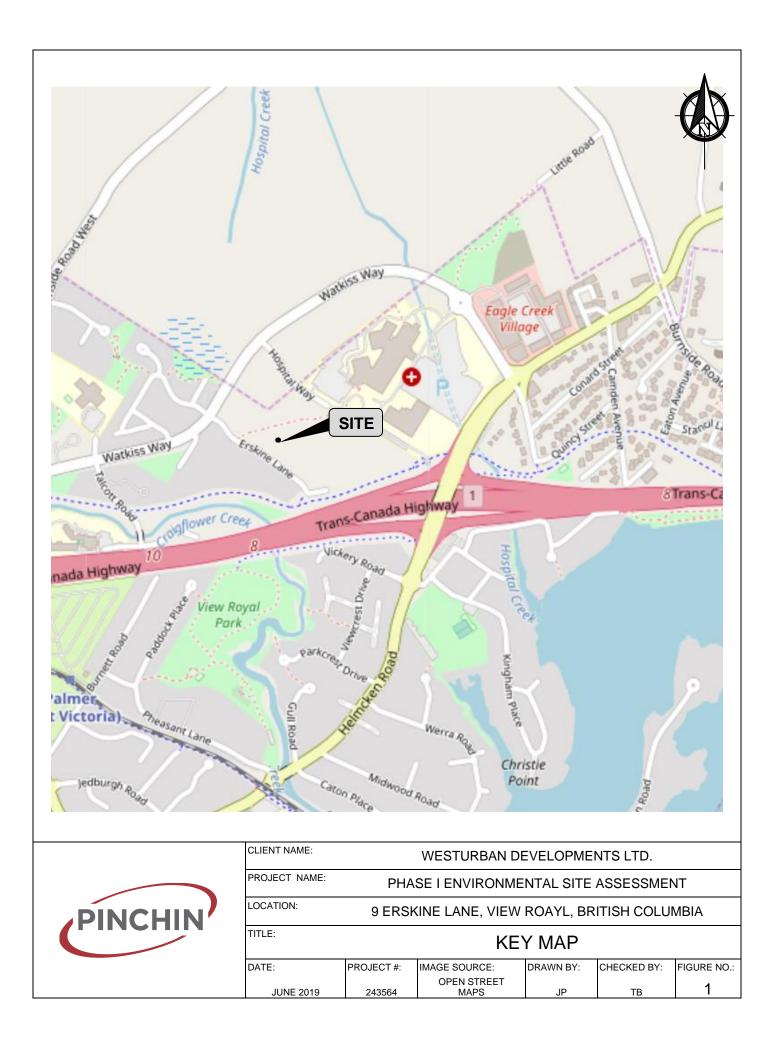
- 1. BC Centre for Disease control website radon contamination: http://www.bccdc.ca/healthenv/Contaminants/Radon/default.htm
- 2. Health Canada. "Cross-Canada Survey of Radon Concentrations in Homes Final Report", dated March 2012.
- **3**. BC Online Site Registry.
- 4. British Columbia Ministry of the Environment On-Line Water Resource Atlas.
- Canadian Standards Association (CSA) Standard. CSA Z768-01, Phase I Environmental Site Assessment, Canadian Standards Association International, November 2001, reaffirmed 2012.
- 6. City of Capital Regional District Online GIS.
- ERIS report entitled "9 Erskine Lane, View Royal, British Columbia", and dated June 12, 2019 (ERIS Project # 20190607238).
- 8. Google™ Earth.
- 9. Report entitled "*Draft PSI, DSI and Remediation Plan, 7 Erskine Lane, View Royal, BC*" prepared for 1132785 BC Ltd., prepared by Islander and dated April 2018.
- Memo entitled "Scenario 5 Release Request –Rezoning and Development Permit Application Approved Professional Opinion Letter for 7 Erskine Lane, View Royal, PID: 018-361-790" prepared for the Ministry of Environment and Climate Change Strategy Land Remediation Section, prepared by TRI and dated April 25, 2018.
- Report entitled "Authorization Agreement, Proposed Remediation for 7 Erskine Lane, View Royal, BC" between 1132785 BC Ltd. (Dustin Lamoureux), owner of 7 Erskine Lane and Darlene Grigull, Executrix of the Site and dated May 29, 2018.

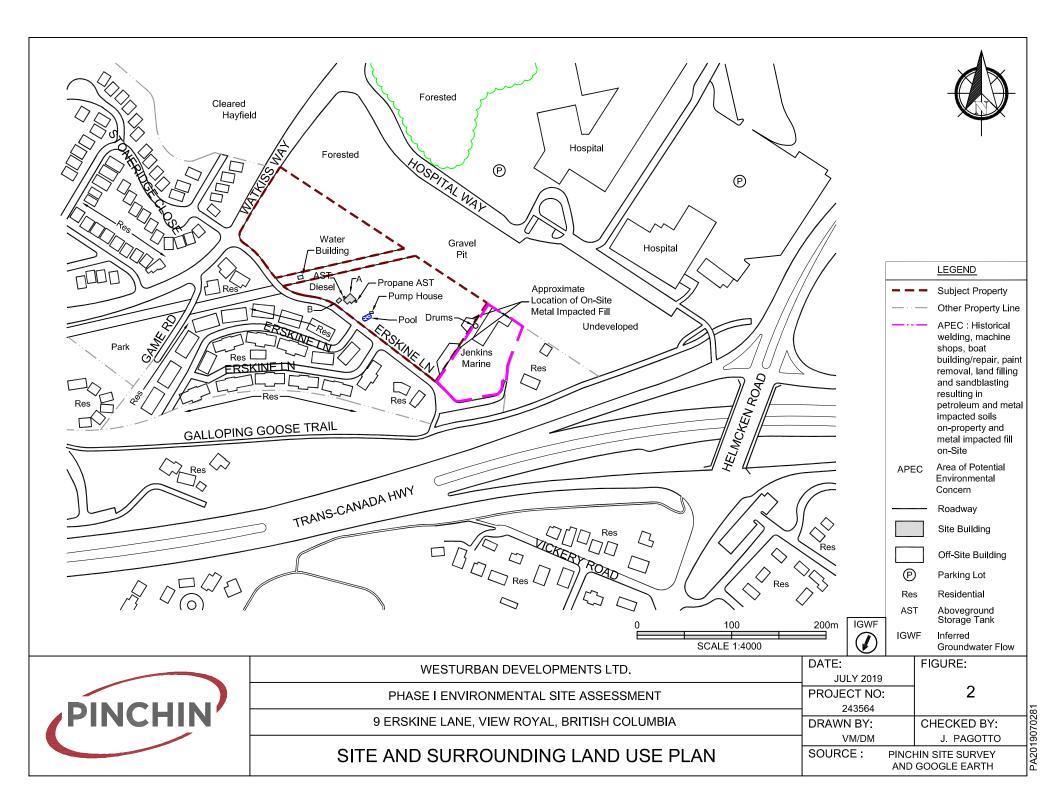


- Ministry of Environment, Environmental Management Act, Contaminated Sites Regulation (BC Reg375/96). 2019.
- **13**. UBC Geographic Information Centre.

243564.000 Phase I ESA Report, 9 Erskine Lane, View Royal, BC, WestUrban, July 25, 2019 Template: Master Report for Phase I ESA Stage 1 PSI - BC, EDR, June 14, 2019

**FIGURES** 





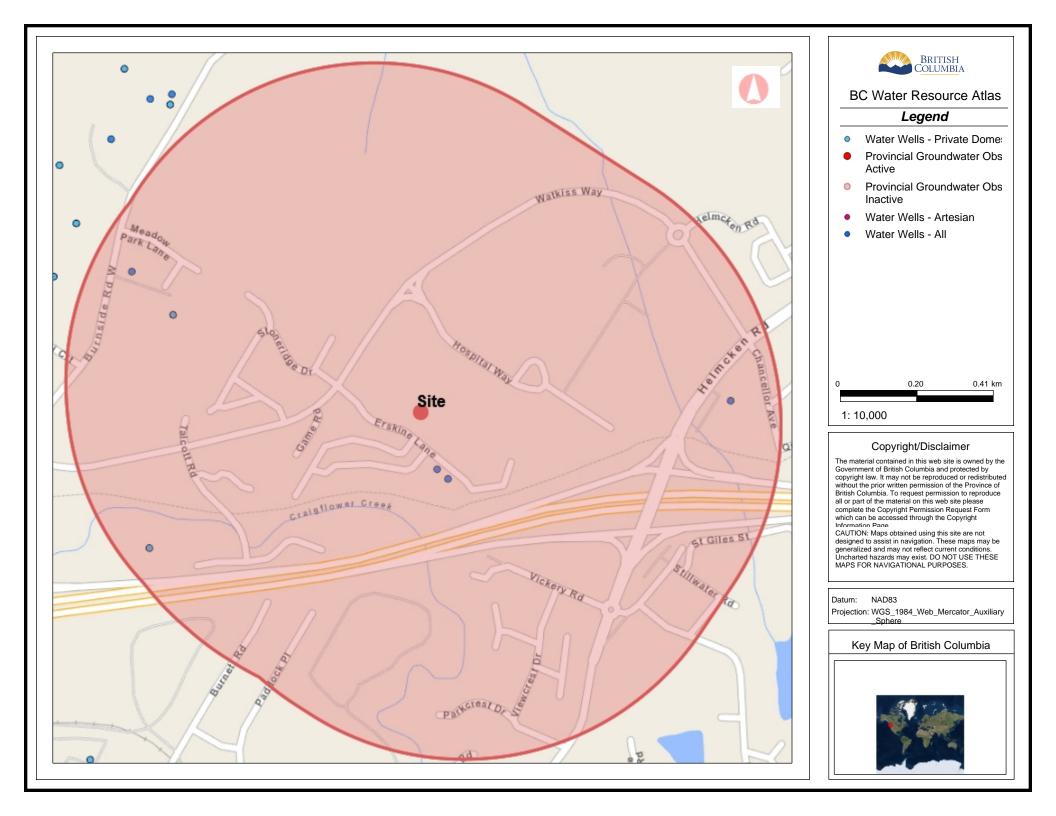
APPENDIX I Current Land Title of the Site File Reference: 243564 Declared Value \$ 621800

# \*\*CURRENT INFORMATION ONLY - NO CANCELLED INFORMATION SHOWN\*\*

Land Title District Land Title Office	VICTORIA VICTORIA
<b>Title Number</b> From Title Number	EW106420 EW106419
Application Received	2004-08-10
Application Entered	2004-08-23
Registered Owner in Fee Simple Registered Owner/Mailing Address:	BEVERLEY ADAMS 9 ERSKINE LANE VICTORIA, BC V8Z 1R7 IN TRUST DDEW106420
Taxation Authority	View Royal, Town of
Description of Land Parcel Identifier: Legal Description: LOT B, SECTION 93, ESQUIMALT DI PLAN VIP62088	002-364-531 STRICT, PLAN 26648, EXCEPT PART IN
Legal Notations	NONE
Charges, Liens and Interests Nature: Registration Number: Registered Owner: Remarks:	UNDERSURFACE RIGHTS M76301 HER MAJESTY THE QUEEN IN RIGHT OF THE PROVINCE OF BRITISH COLUMBIA INTER ALIA AFB 3.257.3685 DD 35249
Nature: Registration Number: Registration Date and Time: Remarks:	EASEMENT 105260G 1943-03-11 14:47 INTER ALIA THAT PART FORMERLY THE NORTHERLY 5 FEET OF LOT 2, PLAN 4206, APPURTENANT TO LOT 1, PLAN 4206

<b>TITLE SEARCH PRINT</b> File Reference: 243564 Declared Value \$ 621800		2019-06-07, 14:00:02 Requestor: Jasmine Koh
Duplicate Indefeasible Title	NONE OUTSTANDING	
Transfers	NONE	
Pending Applications	NONE	
Pending Applications	NONE	

APPENDIX II BC MOECCS Water Resource Atlas Search Result



APPENDIX III ERIS Report



**Project Property:** 

Project No: Report Type: Order No: Requested by: Date Completed: 243564, 9 Erskine Lane, View Royal, British Columbia 9 Erskine Lane View Royal BC V8Z 1R7 243564 Custom BC Standard Report Plus 20190607238 Pinchin Ltd. June 12, 2019

# Table of Contents

Table of Contents	2
Executive Summary	3
Executive Summary: Report Summary	4
Executive Summary: Site Report Summary - Project Property	
Executive Summary: Site Report Summary - Surrounding Properties	7
Executive Summary: Summary By Data Source	8
Мар	
Aerial	11
Topographic Map	12
Detail Report	
Unplottable Summary	
Unplottable Report	27
Appendix: Database Descriptions	29
Definitions	36

# Notice: IMPORTANT LIMITATIONS and YOUR LIABILITY

Reliance on information in Report: This report DOES NOT replace a full Phase I Environmental Site Assessment but is solely intended to be used as a database review of environmental records.

License for use of information in Report: No page of this report can be used without this cover page, this notice and the project property identifier. The information in Report(s) may not be modified or re-sold.

Your Liability for misuse: Using this Service and/or its reports in a manner contrary to this Notice or your agreement will be in breach of copyright and contract and ERIS may obtain damages for such mis-use, including damages caused to third parties, and gives ERIS the right to terminate your account, rescind your license to any previous reports and to bar you from future use of the Service.

No warranty of Accuracy or Liability for ERIS: The information contained in this report has been produced by ERIS Information Limited Partnership ("ERIS") using various sources of information, including information provided by Federal and Provincial government departments. The report applies only to the address and up to the date specified on the cover of this report, and any alterations or deviation from this description will require a new report. This report and the data contained herein does not purport to be and does not constitute a guarantee of the accuracy of the information contained herein and does not constitute a legal opinion nor medical advice. Although ERIS has endeavored to present you with information that is accurate, ERIS disclaims, any and all liability for any errors, omissions, or inaccuracies in such information and data, whether attributable to inadvertence, negligence or otherwise, and for any consequences arising therefrom. Liability on the part of ERIS is limited to the monetary value paid for this report.

Trademark and Copyright: You may not use the ERIS trademarks or attribute any work to ERIS other than as outlined above. This Service and Report(s) are protected by copyright owned by ERIS Information Limited Partnership. Copyright in data used in the Service or Report(s) (the "Data") is owned by ERIS or its licensors. The Service, Report(s) and Data may not be copied or reproduced in whole or in any substantial part without prior written consent of ERIS.

# **Executive Summary**

# Property Information:

Project Property:243564, 9 Erskine Lane, View Royal, British Columbia<br/>9 Erskine Lane View Royal BC V8Z 1R7

**Project No:** 

243564

# **Coordinates:**

	Latitude: Longitude: UTM Northing: UTM Easting: UTM Zone:	48.46524 -123.435924 5,368,103.58 467,775.51 UTM Zone 10U
Elevation:		90 FT 27.49 M

# Order Information:

Order No: Date Requested: Requested by: Report Type: 20190607238 June 7, 2019 Pinchin Ltd. Custom BC Standard Report Plus

# Historical/Products:

# Executive Summary: Report Summary

Database	Name	Searched	Search Radius	Project Property	Within 0.50 km	0.50 km to 1.00 km	Total
AMS	Authorization Management System (formerly WASTE)	Y	0.50	0	0	-	0
ARIS	Assessment Report Indexing	Ν	0.50	-	-	-	-
AUWR	System Automobile Wrecking & Supplies	Ν	0.50	-	-	-	-
BOGW	BC Oil and Gas Wells	Ν	0.50	-	-	-	-
CDRY	Dry Cleaning Facilities	Ν	0.50	-	-	-	-
CHEM	Chemical Register	Ν	0.50	-	-	-	-
CNG	Compressed Natural Gas Stations	Ν	0.50	-	-	-	-
COAL	Coal Tar Sites	Ν	0.50	-	-	-	-
CONV	Compliance and Enforcement	Y	0.50	0	0	-	0
DIS	Summary Wastewater Discharge Inventory	Ν	0.50	-	-	-	-
EEM	Environmental Effects Monitoring	Ν	0.50	-	-	-	-
EHS	ERIS Historical Searches	Ν	0.50	-	-	-	-
EIIS	Environmental Issues Inventory System	Ν	0.50	-	-	-	-
EM	Environmental Monitoring Locations	Ν	0.50	-	-	-	-
FCON	Federal Convictions	Ν	0.50	-	-	-	-
FCS	Contaminated Sites on Federal Land	Y	0.50	0	0	-	0
FISH	Commercial Fisheries	Ν	0.50	-	-	-	-
FOFT	Fisheries & Oceans Fuel Tanks	Ν	0.50	-	-	-	-
GEN	Waste Generators Summary	Y	0.50	0	1	-	1
GEN2	Generators - Special Waste Information System (SWIS)	Y	0.50	0	2	-	2
GHG	Greenhouse Gas Emissions from Large Facilities	Ν	0.50	-	-	-	-
HWF	Hazardous Waste Facilities	Y	0.50	0	0	-	0
IAFT	Indian & Northern Affairs Fuel Tanks	Ν	0.50	-	-	-	-
LUM	Lumber Mills	Ν	0.50	-	-	-	-
MINE	Canadian Mine Locations	Ν	0.50	-	-	-	-
MNR	Minerals Deposits Database	Ν	0.50	-	-	-	-
NATE	National Analysis of Trends in Emergencies System (NATES)	Ν	0.50	-	-	-	-
NCPL	Non-Compliance Reports	Ν	0.50	-	-	-	-
NDFT	National Defense & Canadian Forces Fuel Tanks	Ν	0.50	-	-	-	-
NDSP	National Defense & Canadian	Ν	0.50	-	-	-	-
NDWD	Forces Spills National Defence & Canadian Forces Waste Disposal Sites	Ν	0.50	-	-	-	-
NEBI	National Energy Board Pipeline	Ν	0.50	-	-	-	-
NEBP	Incidents National Energy Board Wells	Ν	0.50	-	-	-	-
NEES	National Environmental Emergencies System (NEES)	Y	0.50	0	0	-	0

Database	Name	Searched	Search Radius	Project Property	Within 0.50 km	0.50 km to 1.00 km	Total
NPCB	National PCB Inventory	Ν	0.50	-	-	-	-
NPRI	National Pollutant Release	Y	0.50	0	0	-	0
OG INCIDENTS	Inventory BC Oil and Gas Commission	Ν	0.50	-	-	-	-
OGWW	Incidents Oil and Gas Wells	Ν	0.50	-	-	-	-
PAP	Canadian Pulp and Paper	Ν	0.50	-	-	-	-
PCB	Inventory of PCB Storage Sites	Y	0.50	0	1	-	1
PCFT	Parks Canada Fuel Storage Tanks	Ν	0.50	-	-	-	-
PES	Pesticide Register	Ν	0.50	-	-	-	-
PRAI	Private Aggregate Inventory	Ν	0.50	-	-	-	-
PUAI	Public Aggregate Inventory	Ν	0.50	-	-	-	-
REC	Waste Receivers Summary	Y	0.50	0	1	-	1
REC2	Receivers - Special Waste Information System (SWIS)	Y	0.50	0	0	-	0
RST	Retail Fuel Storage Tanks	Y	0.50	0	0	-	0
SCT	Scott's Manufacturing Directory	Y	0.50	0	1	-	1
SREG	Site Registry	Y	1.00	1	1	1	3
STNK	Surrey Tank Construction Permits	Y	0.50	0	0	-	0
TCFT	Transport Canada Fuel Storage Tanks	Ν	0.50	-	-	-	-
VTNK	Vancouver Heating Oil Underground Storage Tanks	Ν	0.50	-	-	-	-
WDS	Waste Disposal Site Inventory	Y	0.50	0	0	-	0
WWIS	Water Well Information System	Ν	0.50	-	-	-	-
		Total:		1	7	1	9

# Executive Summary: Site Report Summary - Project Property

Мар Кеу	DB	Company/Site Name	Address	Dir/Dist (m)	Elev diff (m)	Page Number
<u>1</u>	SREG	9 Erskine Lane, View Royal, Victoria	9 ERSKINE LANE VIEW ROYAL No Entry VICTORIA BC	-/0.0	0.00	<u>13</u>
			Site ID   Updated: 21587   19-Jul-2018			

# Executive Summary: Site Report Summary - Surrounding Properties

DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
SREG	7 Erskine Lane, View Royal	7 ERSKINE LANE ( VIEW ROYAL) VICTORIA BC	SE/100.0	3.22	<u>14</u>
		Site ID   Updated: 21586   19-Jul-2018			
SCT	Jenkins Marine Ltd.	5 Erskine Lane Victoria BC V8Z 1R7	ESE/165.3	5.81	<u>20</u>
GEN2	VICTORIA GENERAL HOSPITAL	1 HOSPITAL WAY, VICTORIA, BC BC	NE/190.4	-4.35	<u>20</u>
GEN2	VANCOUVER GENERAL HOSPITAL	#1 HOSPITAL WAY, VICTORIA, BC BC	NE/190.4	-4.35	<u>21</u>
PCB	CAPITAL HEALTH REGION	1 HOSPITAL WAY VICTORIA BC V8Z 6R5	NE/190.4	-4.35	<u>21</u>
REC	CAPITAL HEALTH REGION	1 Hospital Way Victoria BC V8Z 6R5	NE/190.4	-4.35	<u>22</u>
GEN	Capital Health Region	35 Helmcken Road, Victoria BC	NE/364.1	-7.41	<u>23</u>
SREG	E & N Rail Trail, Victoria	E & N RAIL TRAIL - ADJACENT TO CRAIGFLOWER CREEK No Entry VICTORIA BC Site ID / Updated: 17447   08-May-2015	S/995.3	-12.12	<u>23</u>
	SREG SCT GEN2 GEN2 PCB REC GEN	SREG7 Erskine Lane, View RoyalSCTJenkins Marine Ltd.GEN2VICTORIA GENERAL HOSPITALGEN2VANCOUVER GENERAL HOSPITALPCBCAPITAL HEALTH REGIONRECCAPITAL HEALTH REGIONGENCapital Health Region	SREG   7 Erskine Lane, View Royal   7 ERSKINE LANE ( VIEW ROYAL) VICTORIA BC     SREG   7 Erskine Lane, View Royal   7 ERSKINE LANE ( VIEW ROYAL) VICTORIA BC     SCT   Jenkins Marine Ltd.   5 Erskine Lane Victoria BC V8Z 1R7     GEN2   VICTORIA GENERAL HOSPITAL WAY, VICTORIA, BC BC     GEN2   VANCOUVER GENERAL HOSPITAL WAY, VICTORIA, BC BC     PCB   CAPITAL HEALTH REGION   1 HOSPITAL WAY, VICTORIA, BC BC     PCB   CAPITAL HEALTH REGION   1 HOSPITAL WAY     GEN   CAPITAL HEALTH REGION   1 HOSPITAL WAY     SREG   E & N Rail Trail, Victoria   E & N RAIL TRAIL - ADJACENT TO CRAIGFLOWER CREEK NO Entry	SREG   7 Erskine Lane, View Royal   7 ERSKINE LANE (VIEW ROYAL) VICTORIA BC   SE/100.0     SCT   Jenkins Marine Ltd.   5 Erskine Lane Victoria BC V8Z 1R7   ESE/165.3     GEN2   VICTORIA GENERAL HOSPITAL   1 HOSPITAL WAY, VICTORIA, BC   NE/190.4     GEN2   VANCOUVER GENERAL HOSPITAL   #1 HOSPITAL WAY, VICTORIA, BC   NE/190.4     PCB   CAPITAL HEALTH REGION   1 HOSPITAL WAY VICTORIA BC V8Z 6R5   NE/190.4     REC   CAPITAL HEALTH REGION   1 Hospital Way Victoria BC V8Z 6R5   NE/190.4     GEN   Capital Health Region   35 Helmcken Road, Victoria BC   NE/190.4     SREG   E & N Rail Trail, Victoria   E & N RAIL TRAIL - ADJACENT TO CRAIGELOWER CREEK No Entry VICTORIA BC   S/995.3	SREG   7 Erskine Lane, View Royal   7 ERSKINE LANE ( VIEW ROYAL) VICTORIA BC Site ID / Updated: 21586   19-Jul-2018   SE/100.0   3.22     SCT   Jenkins Marine Ltd.   5 Erskine Lane Victoria BC V8Z 1R7   ESE/165.3   5.81     GEN2   VICTORIA GENERAL HOSPITAL   1 HOSPITAL WAY, VICTORIA, BC BC   NE/190.4   -4.35     GEN2   VANCOUVER GENERAL HOSPITAL   #1 HOSPITAL WAY, VICTORIA, BC BC   NE/190.4   -4.35     PCB   CAPITAL HEALTH REGION   1 HOSPITAL WAY, VICTORIA, BC NE/190.4   NE/190.4   -4.35     REC   CAPITAL HEALTH REGION   1 HOSPITAL WAY VICTORIA BC V8Z 6R5   NE/190.4   -4.35     GEN   Capital Health Region   35 Heimcken Road, Victoria BC   NE/190.4   -4.35     GEN   Capital Health Region   35 Heimcken Road, Victoria BC   NE/364.1   -7.41     SREG   E & N Rail Trail, Victoria   E & N RAIL TRAIL - ADJACENT TO CRAIGFLOWER CREEK No Entry   S/995.3   -12.12

# Executive Summary: Summary By Data Source

# **GEN** - Waste Generators Summary

A search of the GEN database, dated 1993-Sep 30, 2017 has found that there are 1 GEN site(s) within approximately 0.50 kilometers of the project property.

Lower Elevation	<u>Address</u>	<b>Direction</b>	<u>Distance (m)</u>	<u>Map Key</u>
Capital Health Region	35 Helmcken Road, Victoria BC	NE	364.10	<u>5</u>

# **<u>GEN2</u>** - Generators - Special Waste Information System (SWIS)

A search of the GEN2 database, dated Jan 2011-Dec 2014 has found that there are 2 GEN2 site(s) within approximately 0.50 kilometers of the project property.

Lower Elevation	<u>Address</u>	<b>Direction</b>	<u>Distance (m)</u>	<u>Map Key</u>
VANCOUVER GENERAL HOSPITAL	#1 HOSPITAL WAY, VICTORIA, BC BC	NE	190.39	<u>4</u>
VICTORIA GENERAL HOSPITAL	1 HOSPITAL WAY, VICTORIA, BC BC	NE	190.39	<u>4</u>

# PCB - Inventory of PCB Storage Sites

A search of the PCB database, dated 1989, May 1993-2010\* has found that there are 1 PCB site(s) within approximately 0.50 kilometers of the project property.

Lower Elevation	<u>Address</u>	<b>Direction</b>	<u>Distance (m)</u>	<u>Map Key</u>
CAPITAL HEALTH REGION	1 HOSPITAL WAY VICTORIA BC V8Z 6R5	NE	190.39	<u>4</u>

# **<u>REC</u>** - Waste Receivers Summary

A search of the REC database, dated 1992-2010\* has found that there are 1 REC site(s) within approximately 0.50 kilometers of the project property.

Lower Elevation	<u>Address</u>	<b>Direction</b>	<u>Distance (m)</u>	<u>Map Key</u>
CAPITAL HEALTH REGION	1 Hospital Way Victoria BC V8Z 6R5	NE	190.39	<u>4</u>

# **<u>SCT</u>** - Scott's Manufacturing Directory

A search of the SCT database, dated 1992-Mar 2011\* has found that there are 1 SCT site(s) within approximately 0.50 kilometers of the project property.

Equal/Higher Elevation	<u>Address</u>	<b>Direction</b>	<u>Distance (m)</u>	<u>Map Key</u>
Jenkins Marine Ltd.	5 Erskine Lane Victoria BC V8Z 1R7	ESE	165.26	<u>3</u>

# SREG - Site Registry

A search of the SREG database, dated Apr 30, 2019 has found that there are 3 SREG site(s) within approximately 1.00 kilometers of the project property.

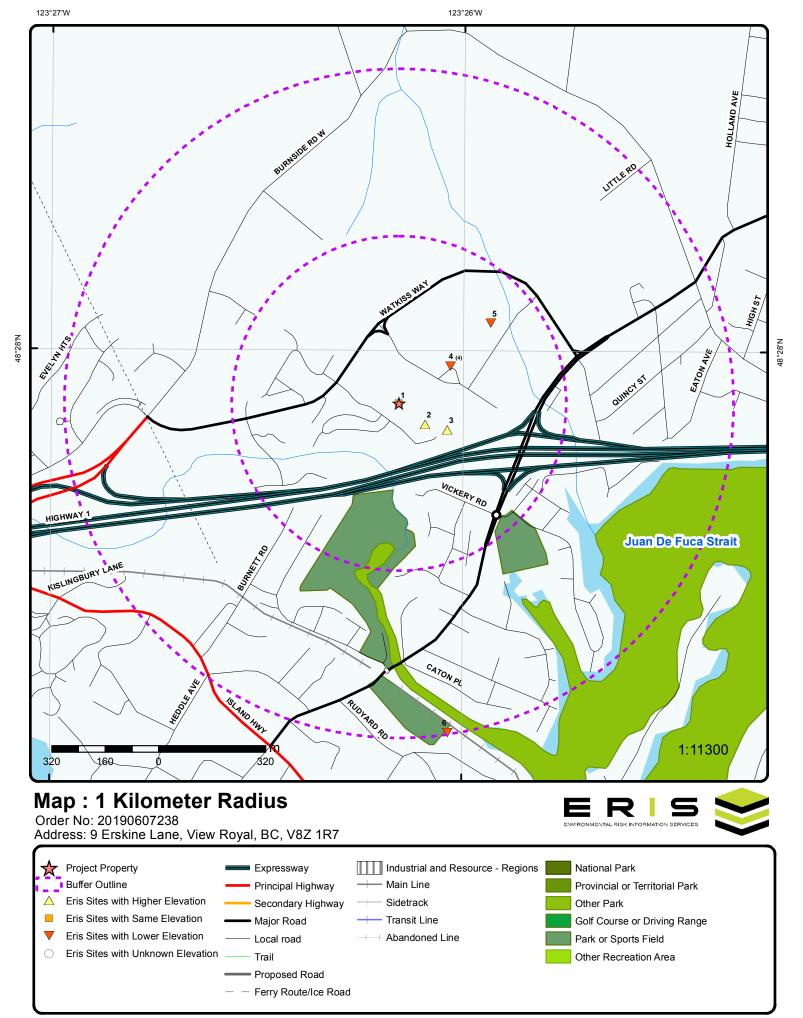
Equal/Higher Elevation 9 Erskine Lane, View Royal, Victoria	Address 9 ERSKINE LANE VIEW ROYAL No Entry VICTORIA BC Site ID   Updated: 21587   19-Jul-2018	<u>Direction</u> -	<b>Distance (m)</b> 0.00	<u>Map Key</u> <u>1</u>
7 Erskine Lane, View Royal	7 ERSKINE LANE ( VIEW ROYAL) VICTORIA BC <i>Site ID   Updated:</i> 21586   19-Jul-2018	SE	100.01	2
Lower Elevation	Address	Direction	<u>Distance (m)</u>	<u>Map Key</u>

S

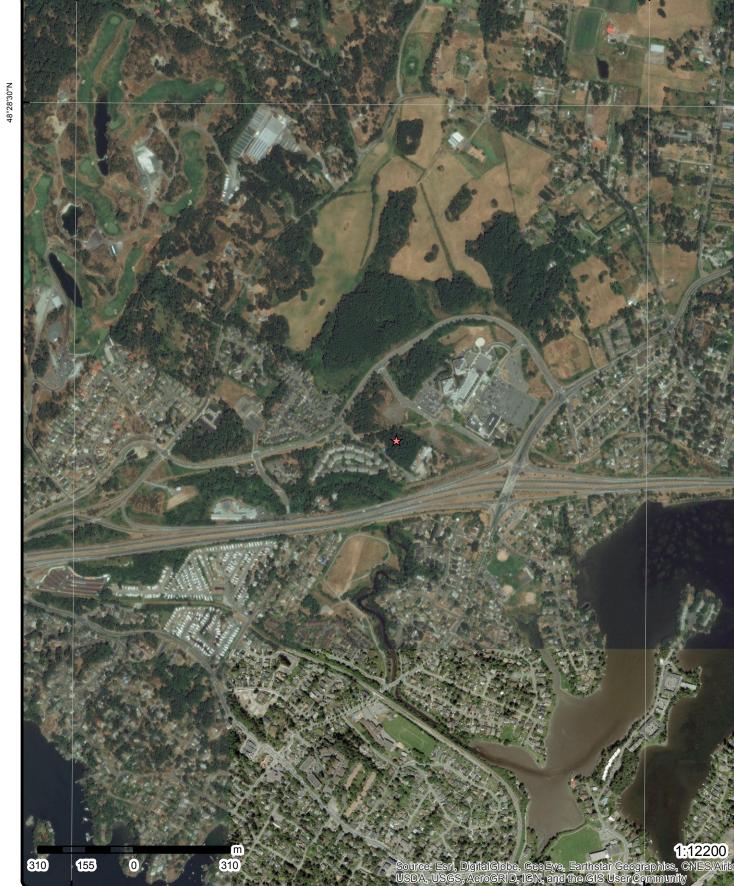
E & N Rail Trail, Victoria

E & N RAIL TRAIL - ADJACENT TO CRAIGFLOWER CREEK No Entry VICTORIA BC Site ID | Updated: 17447 | 08-May-2015

<u>tion</u>	<u>Distance (m)</u>	<u> Map Ke</u>
	995.28	<u>6</u>



Source: © 2015 DMTI Spatial Inc.



ISDA

Address: 9 Erskine Lane, View Royal, BC, V8Z 1R7

Source: ESRI World Imagery

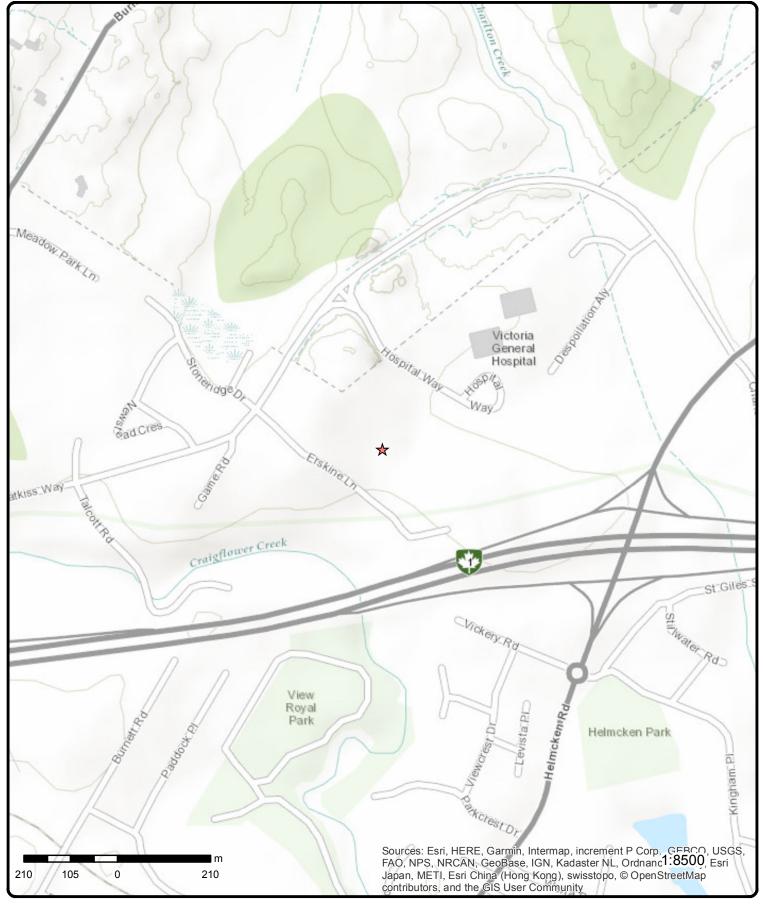
# Order No: 20190607238



48°28'30"N

123°25'30"W

© ERIS Information Limited Partnership



# **Topographic Map**

Address: 9 Erskine Lane, View Royal, BC, V8Z 1R7

Source: ESRI World Topographic Map

Order No: 20190607238



© ERIS Information Limited Partnership

# Detail Report

Map Key	Number Records		Direction/ Distance (m)	Elev/Diff (m)	Site		DB
1	1 of 1		-/0.0	27.5/0.00	9 Erskine Lane, View 9 ERSKINE LANE VII VICTORIA BC		SREG
Site ID: Victoria File Regional File Record State Status as of: Cleanup Sta Category: Location Des Site Note:	e No: us: : tus:	21587 26250-20/2 No File NOT ASSIG April 2019 Not Applical	SNED	FIRMED USING (	Registered: Updated: Detail Removed: Postal Code: Latitude DMS: Longitude DMS: Latitude: Longitude: GOOGLE EARTH AND LTS	07-May-2018 19-Jul-2018 16-Jul-2018 V8Z 1R7 48d 27m 54.4s 123d 26m 08.9s 48.465111 123.435806 SA	
Registry Nota Event ID: Notation Typ Initiated Date Approved Date Region: Ministry Con Notation Nota Required Act Requirement Requirement	be and Act: e: ate: htact: res: tions: t Due Date:	N SI 02 02 N S S S S S S S S	0416 OTIFICATION REI ITE. Environmenta 2-May-2018 2-May-2018 anaimo, Vancouve AMWAYS, JENNIF ource Parcel 7 Ers ite: 21586 o Actions Entered	I Management Ac er Island FER	t: General	STANCE MIGRATION FROM N	NEIGHBOURING
Participant:		Islander Eng	gineering Ltd		Role:	SUBMITTED BY	
Registry Nota Event ID: Notation Typ Initiated Date Approved Da Region: Ministry Con Notation Nota Required Act Requirement Requirement	be and Act: e: ate: htact: tes: tions: t Due Date:	SI 06 07 7/ 50 Si Si	1151 ITE RISK CLASSII 6-Apr-2018 6-Apr-2018 anaimo, Vancouve AN, PETER ource Parcel 7 Ers ite: 21586 o Actions Entered	er Island		ntal Management Act: Genera	I
Participant:		Islander Eng	gineering Ltd		Role:	SUBMITTED BY	
<u>Site Participa</u> Participant: Participatior Notes:		Site Informa EMP	ation Advisor		Start Date: End Date:	May-02-2018	

• •	umber of ecords	Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Participants Role	):	Ministry Contact				
Site Participants						
Participant: Participation Tyj Notes:		, Peter		Start Date: End Date:	Apr-06-2018	
Participants Role	):	Ministry Contact				
<u>Site Participants</u>						
Participant: Participation Tyj Notes:		nder Engineering Ltd G		Start Date: End Date:	Apr-06-2018	
Participants Role	); ;	Environmental Cor	nsultant/Contracto	r		
Site Participants						
Participant: Participation Tyj Notes:		ms, Beverly R		Start Date: End Date:	May-02-2018	
Participants Role	):	Property Owner				
Associated Sites						
Associated Site Notes:	<b>ID:</b> 2158	86 SOURCE PARCEL AFFECTED PARC		Effective Date:	5/2/2018	
Parcel Descriptio	ons					
Date Added: LTO PID(s): Land Description	002-	2018 364-531		Crown Land PIN#: Crown Land File#:		
<u>2</u> 1 o	of 1	SE/100.0	30.7 / 3.22	7 Erskine Lane, Vi 7 ERSKINE LANE VICTORIA BC		SREG
Site ID: Victoria File No: Regional File No: Region: Record Status: Status as of: Cleanup Status: Category: Location Desc: Site Note:	NO F NOT Apri	50-20/21586 File FASSIGNED I 2019 Applicable	NFIRMED USING	Registered: Updated: Detail Removed: Postal Code: Latitude DMS: Longitude DMS: Latitude: Longitude: GOOGLE EARTH AND I	07-May-2018 19-Jul-2018 16-Jul-2018 No Entry 48d 27m 52.5s 123d 26m 05.5s 48.464583 123.434861 _TSA	
Registry Notation	<u>15</u>					
Event ID: Notation Type an Initiated Date:	nd Act:	91146 RELEASE OF APF Environmental Mar 13-Jul-2018			NCE OF INDEPENDENT REME	DIATION ISSUED.
		10 001 2010				

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Approved Da	ite:	13-Jul-2018			
Region:		Nanaimo, Vancouve	er Island		
Ministry Con	tact:	HANEMAYER, VIN	CENT (SURREY)	C	
Notation Not		Release Of Soil Rer	noval, Zoning And	Development Applications Under Scenario 5 (Site Redevelopment)	
Required Act	tions:	No Actions Entered	, 0		
Requirement					
	Received Date:				

<u>Registry Notations</u>
---------------------------

Event ID:	91147
Notation Type and Act:	REQUIREMENT(S) IMPOSED UNDER EMA SECTION 54(3)(D). Environmental Management Act: General
Initiated Date:	13-Jul-2018
Approved Date:	13-Jul-2018
Region:	Nanaimo, Vancouver Island
Ministry Contact:	HANEMAYER, VINCENT (SURREY) C
Notation Notes:	No Notes Entered
Required Actions:	A Statement By An Approved Professional Must Be Submitted Annually To The Director Within 30 Days Of The
-	Anniversary Of The 13 July, 2018 Release Letter.
Required Actions.	

Requirement Due Date: Requirement Received Date:

**Registry Notations** 

Event ID:	91148
Notation Type and Act:	REQUIREMENT(S) IMPOSED UNDER EMA SECTION 54(3)(D). Environmental Management Act: General
Initiated Date:	13-Jul-2018
Approved Date:	13-Jul-2018
Region:	Nanaimo, Vancouver Island
Ministry Contact:	HANEMAYER, VINCENT (SURREY) C
Notation Notes:	No Notes Entered
Required Actions:	Remediation Must Be Completed Within Five Years Of The 13 July, 2018 Release Letter.
•	Remediation Must Be Confirmed According To Applicable Legislation And Ministry Guidance. Within 90 Days Of
	Completing Remediation, A Report Summarizing Confirmation Of Remediation Shall Be Submitted To The
	Director.

SITE PROFILE REVIEWED - FURTHER INVESTIGATION REQUIRED BY THE MINISTRY. Environmental

Requirement Due Date: Requirement Received Date:

### **Registry Notations**

*Event ID: Notation Type and Act:* 

Initiated Date: Approved Date: Region: Ministry Contact: Notation Notes: Required Actions: Requirement Due Date: Requirement Received Date:

# **Registry Notations**

Event ID: 91116 Notation Type and Act: SITE PROFILE RECEIVED. Environmental Management Act: General Initiated Date: 28-Jun-2018 Approved Date: No Entry Region: Nanaimo, Vancouver Island HANEMAYER, VINCENT (SURREY) C Ministry Contact: Notation Notes: Notation Generated In Site Profile On 2018-07-10 By Vchanema No Actions Entered **Required Actions:** Requirement Due Date:

Management Act: General

Nanaimo, Vancouver Island

**Detailed Site Investigation** 

Auto Inserted From Site Profile

HANEMAYER, VINCENT (SURREY) C

erisinfo.com | Environmental Risk Information Services

91117

11-Jul-2018

No Entry

Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Requirement l	Received Date:				
Participant:	Island	ler Engineering Ltd		Role:	SITE PROFILE SUBMITTED BY
Registry Nota	<u>tions</u>				
Event ID: Notation Type Initiated Date: Approved Dat Region: Ministry Conta Notation Note Required Acti Requirement I Requirement I	e: act: s: ons:	90414 NOTICE OF INDEP 02-May-2018 02-May-2018 Nanaimo, Vancouve SAMWAYS, JENNIF Start: 2018-05-15 No Actions Entered	r Island	EDIATION INITIAT	TION SUBMITTED. Environmental Management Act: Genera
Participant:	Island	der Engineering Ltd		Role:	SUBMITTED BY
Registry Nota	<u>tions</u>				
Event ID: Notation Type Initiated Date: Approved Date Region: Ministry Conta Notation Note	e: act:	90415 NOTIFICATION REG Environmental Mana 02-May-2018 02-May-2018 Nanaimo, Vancouve SAMWAYS, JENNIF Affected Parcel: 9 E	igement Act: G r Island ER	eneral	TUAL SUBSTANCE MIGRATION TO NEIGHBOURING SITE
Required Action Requirement I	ons:	Site: 21587 No Actions Entered	,		·
Participant:	Island	ler Engineering Ltd		Role:	SUBMITTED BY
Registry Nota	<u>tions</u>				
Event ID: Notation Type Initiated Date: Approved Dat Region: Ministry Conta Notation Note Required Acti Requirement I Requirement I	e: act: s: ons:	91152 SITE RISK CLASSIF 06-Apr-2018 06-Apr-2018 Nanaimo, Vancouve YAN, PETER Affected Parcel: 9 E Site: 21587 No Actions Entered	r Island		HIGH RISK. Environmental Management Act: General , Bc)
Participant:	Island	der Engineering Ltd		Role:	SUBMITTED BY
Registry Nota	<u>tions</u>				
Event ID: Notation Type Initiated Date: Approved Date Region: Ministry Conta Notation Note Required Actio	e: act: s:	06-Apr-2018 06-Apr-2018 Nanaimo, Vancouve HANEMAYER, VINO No Notes Entered If There Are Confirm	r Island CENT (SURRE <sup>N</sup> ed To Be Imme	/) C ediate Risks Assoc	onmental Management Act: General ciated With The High Risk Conditions, The Ministry Should B a And Schedule For The Implementation Of Any Required

Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site		DE
		Mitigative Or Risk M	Management Mea	asures Should Be Prov	ided.	
Requirement Requirement	Due Date: Received Date:					
Participant:	Isla	nder Engineering Ltd		Role:	SUBMITTED BY	
Site Participa	<u>nts</u>					
Participant: Participation Notes:		nder Engineering Ltd G		Start Date: End Date:	Apr-01-2018	
Participants F	Role:	Site Profile Contact	t			
Participants F	Role:	Environmental Con	sultant/Contracto	or		
Participants F	Role:	Site Profile Comple	etor			
Site Participa	<u>nts</u>					
Participant: Participation Notes:		Information Advisor P		Start Date: End Date:	May-02-2018	
Participants F	Role:	Ministry Contact				
Site Participa	nts					
Participant: Participation Notes:		emayer, Vincent (Surrey) P	С	Start Date: End Date:	Apr-06-2018	
Participants I	Role:	Main Ministry Conta	act			
Site Participa	<u>nts</u>					
Participant: Participation Notes:		2785 Bc Ltd G		Start Date: End Date:	May-02-2018	
Participants F	Role:	Property Owner				
Site Participa	<u>nts</u>					
Participant: Participation Notes:		, Peter P		Start Date: End Date:	Apr-06-2018	
Participants F	Role:	Ministry Contact				
Documents o	n File					
Document or Authored Dat Submitted Da	e:	Draft - Psi, Dsi & R 01-Apr-2018 28-Jun-2018	emediation Plan,	7 Erskine Lane, View	Royal, Bc	
Document En	try Notes:					
Nothing Noted						

	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Participant and	d Role:	Islander Engineering	J Ltd - Author			
<u>Associated Site</u> Associated Site Notes:		SOURCE PARCEL 2	21586	Effective Date:	5/2/2018	
Notes.		AFFECTED PARCE				
Suspected Lan	nd Use - Notes					
Land Use Desc Notes:	cription:	Sandblasting Waste Inserted For Site Pro		04-06		
Suspected Lan	nd Use - Notes					
Land Use Desc Notes:	cription:	Welding Or Machine Inserted For Site Pro				
Suspected Lan	nd Use - Notes					
Land Use Desc Notes:	cription:	Dry Docks, Ship Buil Inserted For Site Pro		pair Incl. Paint Removal 04-06		
Suspected Lan	nd Use - Notes					
Land Use Desc Notes:	cription:	Const. Demo. Mater Inserted For Site Pro		And Ashpalt, Landfillin 04-06		
Parcel Descript	<u>tions</u>					
Date Added: LTO PID(s): Land Descriptic	5/2/2018 018-361 <b>'on:</b>			Crown Land PIN#: Crown Land File#:		
Current Site Pr	rofile Information					
Date Entered: Date Complete Decision Date:		May-02-2018 Apr-06-2018 Jul-11-2018				

Decision Date:	Jul-11-2018
Date Received:	Jun-28-2018
Date Registrar Recorded:	Jun-28-2018
Date Answer Completed:	Apr-06-2018
Reg Date Entered:	Jul-10-2018
Investigation?:	Yes
Local Authority:	Town Of View Royal
Local Authority Date Recorded:	Jun-28-2018
Site Profile Comments:	No Comment

# Site Profile Note All Questions

# Important Note:

SPECIAL NOTE REGARDING SITE PROFILE QUESTIONS In the bulk data provided by the Ministry of the Environment, the Current Site Profile information for any given site ONLY INCLUDES QUESTIONS TO WHICH THE ANSWER IS YES. Here, for informational purposes only, we provide the list of ALL current site profile questions.

# All Questions:

Мар Кеу	Number of	Direction/	Elev/Diff	Site
	Records	Distance (m)	(m)	

### AREAS OF POTENTIAL CONCERN

- Petroleum, Solvent Or Other Polluting Substance Spills To The Environment Greater Than 100 Litres?
- Residue Left After Removal Of Piled Materials Such As Chemicals, Coal, Ore, Smelter Slag, Air Quality Control System Baghouse Dust?
- Discarded Barrels, Drums Or Tanks?
- Contamination Resulting From Migration Of Substances From Other Properties?

### FILL MATERIALS

Fill Dirt, Soil, Gravel, Sand Or Like Materials From A Contaminated Site Or From A Source Used For Any Of The Activities Listed Under Schedule 2?
Discarded Or Waste Granular Materials Such As Sand Blasting Grit, Asphalt Paving Or Roofing Material, Spent Foundry Casting Sands, Mine Ore, Waste Rock Or Float?

- Dredged Sediments, Or Sediments And Debris Materials Originating From Locations Adjacent To Foreshore Industrial Activities, Or Municipal Sanitary Or Stormwater Discharges?

### WASTE DISPOSAL

- Materials Such As Household Garbage, Mixed Municipal Refuse, Or Demolition Debris?

- Waste Or Byproducts Such As Tank Bottoms, Residues, Sludge, Or Flocculation Precipitates From Industrial Processes Or Wastewater Treatment?

- Waste Products From Smelting Or Mining Activities, Such As Smelter Slag, Mine Tailings, Or Cull Materials From Coal Processing?
- Waste Products From Natural Gas And Oil Well Drilling Activities, Such As Drilling Fluids And Muds?

- Waste Products From Photographic Developing Or Finishing Laboratories; Asphalt Tar Manufacturing; Boilers, Incinerators Or Other Thermal Facilities (Eg. Ash); Appliance, Small Equipment Or Engine Repair Or Salvage; Dry Cleaning Operations (Eg. Solvents); For From The Cleaning Or Repair Of Parts Of Boats, Ships, Barges, Automobiles Or Trucks, Including Sandblasting Grit Or Paint Scrapings? \*[1]

\*[1] Note prior to 2009, question 5 was worded as follows: "Waste Products From Photographic Developing Or Finishing Laboratories; Asphalt Tar Manufacturing; Boilers, Incinerators Or Other Thermal Facilities (Eg. Ash); Appliance, Small Equipment Or Engine Repair Or Salvage; Dry Cleaning Operations (Eg. Solvents); Or Automobile And Truck Parts Cleaning Or Repair?"

TANKS OR CONTAINERS USED OR STORED, OTHER THAN TANKS USED FOR RESIDENTIAL HEATING FUEL\*[2]

- Underground Fuel Or Chemical Storage Tanks Other Than Storage Tanks For Compressed Gases? \*[2A]
- Above Ground Fuel Or Chemical Storage Tanks Other Than Storage Tanks For Compressed Gases? \*[2B]

\*[2] Note prior to 2009, this section was referred to "Tanks Or Containers Used Or Stored".

\*[2A] Note prior to 2009, question 1 was worded as follows: "Underground Fuel Or Chemical Storage Tanks?"

\*[2B] Note prior to 2009, question 2 was worded as follows: "Above Ground Fuel Or Chemical Storage Tanks?"

### HAZARDOUS WASTES OR HAZARDOUS SUBSTANCES \*[3]

- Pcb-Containing Electrical Transformers Or Capacitors Either At Grade, Attached Above Ground To Poles, Located Within Buildings, Or Stored?
- Waste Asbestos Or Asbestos Containing Materials Such As Pipe Wrapping, Blown-In Insulation Or Panelling Buried?
- Paints, Solvents, Mineral Spirits Or Waste Pest Control Products Or Pest Control Product Containers Stored In Volumes Greater Than 205 Litres?

\*[3] Note, prior to 2009, this section was referred to "Special (Hazardous) Wastes Or Substances".

### LEGAL OR REGULATORY ACTIONS OR CONSTRAINTS

- Government Orders Or Other Notifications Pertaining To Environmental Conditions Or Quality Of Soil, Water, Groundwater Or Other Environmental Media?

- Liens To Recover Costs, Restrictive Covenants On Land Use, Or Other Charges Or Encumbrances, Stemming From Contaminants Or Wastes Remaining Onsite Or From Other Environmental Conditions?

- Government Notifications Relating To Past Or Recurring Environmental Violations At The Site Or Any Facility Located On The Site?

## Site Profile Note - Questions

Category Precursor: Category and Question:	Is there currently or to the best of your knowledge has there previously been on the site any deposit of: Fill Materials - Discarded Or Waste Granular Materials Such As Sand Blasting Grit, Asphalt Paving Or Roofing Material, Spent Foundry Casting Sands, Mine Ore, Waste Rock Or Float? Yes
Site Profile Note - Questions	
Category Precursor: Category and Question:	Is there currently or to the best of your knowledge has there previously been on the site any deposit of: Fill Materials - Fill Dirt, Soil, Gravel, Sand Or Like Materials From A Contaminated Site Or From A Source Used For Any Of The Activiities Listed Under Schedule 2? Yes

	Number o Records	f Direction/ Distance (m)	Elev/Diff (m)	Site	DE
<u>3</u> 1	of 1	ESE/165.3	33.3 / 5.81	Jenkins Marine Lt 5 Erskine Lane Victoria BC V8Z 1	SCT
Established: Plant Size (ft²): Employment:		01-JAN-67 65340			
<u>Details</u> Description: SIC/NAICS Code	e:	Boat Building 336612			
Description: SIC/NAICS Code	e:	Boat Building 336612			
<u>4</u> 1	of 4	NE/190.4	23.1 / -4.35	VICTORIA GENER 1 HOSPITAL WAY BC	GEN2
<u>Waste Manifests</u>	<u>s - 2012</u>				
Manifest No: TDG Code: TDG Class: TDG Group: Packing Code: Handling Code:	U 8 11 0	J029294 IN3261 .0-CORROSIVE -Dangerous 7-Other 1-Storage		Date Shipped: Date Received: Copy 3 Date: Qty Shipped: Qty Rcvd: Trans Lic No:	08-08-2012 08-13-2012 09-07-2012 10 KG 10 KG LT0976
Waste Receiver: Receiving Addr:	: 1	C ENVIRONMENTAL FIELD 04-1772 BROADWAY STRE OQUITLAM, BC WASTE CORROSI	ET, PORT	Waste Trans: Trans Addr:	STERICYCLE, ULC 100-1407 KEBET WAY, PORT COQUITLAM BC
Waste Name:		WASTE CORROSI	VE ACIDIC, ORG		
Manifest No: TDG Code: TDG Class: TDG Group: Packing Code: Handling Code: Waste Receiver: Receiving Addr:	U 3 11 0 0 2 <i>:</i> B : 1	J029294 IN1992 .0-FLAMMABLE -Dangerous 7-Other 1-Storage C ENVIRONMENTAL FIELI 04-1772 BROADWAY STRE :OQUITLAM, BC		Date Shipped: Date Received: Copy 3 Date: Qty Shipped: Qty Rcvd: Trans Lic No: Waste Trans: Trans Addr:	08-08-2012 08-13-2012 09-07-2012 10 L 10 L LT0976 STERICYCLE, ULC 100-1407 KEBET WAY, PORT COQUITLAM BC
Waste Name:		Flammable liquids,	poisonous, n.o.s		20
Manifest No: TDG Code: TDG Class: TDG Group: Packing Code: Handling Code: Waste Receiver: Receiving Addr: Waste Name:	U 6 11 0 0 2 8 2 3 1	J029294 IN2811 .1-POISONOUS -Dangerous 1-Drum 1-Storage C ENVIRONMENTAL FIELI 04-1772 BROADWAY STRE :OQUITLAM, BC POISONOUS SOLI	EET, PORT	Date Shipped: Date Received: Copy 3 Date: Qty Shipped: Qty Rcvd: Trans Lic No: Waste Trans: Trans Addr:	08-08-2012 08-13-2012 09-07-2012 400 KG 400 KG LT0976 STERICYCLE, ULC 100-1407 KEBET WAY, PORT COQUITLAM BC
Manifest No: TDG Code: TDG Class: TDG Group: Packing Code: Handling Code:	U 8 11 0	J029294 IN3262 .0-CORROSIVE -Dangerous 7-Other 1-Storage		Date Shipped: Date Received: Copy 3 Date: Qty Shipped: Qty Rcvd: Trans Lic No:	08-08-2012 08-13-2012 09-07-2012 10 KG 10 KG LT0976

Map Key	Number Records		Elev/Diff (m)	Site		DE
Waste Receiv Receiving Ad		BC ENVIRONMENTAL FIELD 104-1772 BROADWAY STRE COQUITLAM, BC		Waste Trans: Trans Addr:	STERICYCLE, ULC 100-1407 KEBET WAY, P BC	PORT COQUITLAN
Waste Name:		WASTE CORROSI	VE SOLID, INORG	GANIC		
<u>4</u>	2 of 4	NE/190.4	23.1/-4.35	VANCOUVER GE. #1 HOSPITAL WA BC	NERAL HOSPITAL Y, VICTORIA, BC	GEN2
Waste Manife	ests - 2011					
Manifest No:		BH302602		Date Shipped:	04-28-2011	
TDG Code:		UN3139		Date Received:	04-29-2011	
TDG Class:		5.2-OXIDIZING & ORGANIC		Copy 3 Date:	05-04-2011	
TDG Group:		II-Dangerous		Qty Shipped:	5 KG	
Packing Code	<b>.</b>	01-Drum		Qty Rcvd:	5 KG	
Handling Cod		01-Storage		Trans Lic No:	LT0956	
Waste Receiv		R S ENVIRONMENTAL FIELI	SERVICES OF	Waste Trans:	R S ENVIRONMENTAL F	
music never	cr.	B.C. INC.	021111020 01	Music muns.	B.C. INC.	
Receiving Ad	ldr:	104 - 1772 BROADWAY ST, COQUITLAM, BC		Trans Addr:	104 - 1772 BROADWAY S COQUITLAM, BC	ST, PORT
Waste Name:		OXIDIZING SUBST	ANCES, LIQUID,	N.O.S.		
Manifest No:		BH302602		Date Shipped:	04-28-2011	
TDG Code:		UN2810		Date Received:	04-29-2011	
TDG Class:		6.1-POISONOUS		Copy 3 Date:	05-04-2011	
TDG Group:		II-Dangerous		Qty Shipped:	65 KG	
Packing Code	e:	01-Drum		Qty Rcvd:	65 KG	
Handling Cod		01-Storage		Trans Lic No:	LT0956	
Waste Receiv		<b>R S ENVIRONMENTAL FIELI</b>	D SERVICES OF	Waste Trans:	R S ENVIRONMENTAL F	IELD SERVICES
		B.C. INC.			B.C. INC.	
Receiving Ad		104 - 1772 BROADWAY ST, COQUITLAM, BC		Trans Addr:	104 - 1772 BROADWAY S COQUITLAM, BC	ST, PORT
Waste Name:		POISONOUS LIQU	ID, N.O.S.			
Manifest No:		BH302602		Date Shipped:	04-28-2011	
TDG Code:		UN1760		Date Received:	04-29-2011	
TDG Class:		8.0-CORROSIVE		Copy 3 Date:	05-04-2011	
TDG Group:		II-Dangerous		Qty Shipped:	5 KG	
Packing Code	e:	07-Other		Qty Rcvd:	5 KG	
Handling Cod	le:	01-Storage		Trans Lic No:	LT0956	
Waste Receiv		R S ENVIRONMENTAL FIELI	O SERVICES OF	Waste Trans:	R S ENVIRONMENTAL F	IELD SERVICES
Receiving Ad	ldr:	B.C. INC. 104 - 1772 BROADWAY ST, I	PORT	Trans Addr:	B.C. INC. 104 - 1772 BROADWAY \$	ST PORT
Ū.		COQUITLAM, BC			COQUITLAM, BC	,
Waste Name:		CORROSIVE LIQU	IDS, N.O.S.			
Manifest No:		BH302602		Date Shipped:	04-28-2011	
TDG Code:		UN2811		Date Received:	04-29-2011	
TDG Class:		6.1-POISONOUS		Copy 3 Date:	05-04-2011	
TDG Group:		III-Moderately Dangerous		Qty Shipped:	60 KG	
Packing Code	e:	01-Drum		Qty Rcvd:	60 KG	
Handling Cod	le:	01-Storage		Trans Lic No:	LT0956	
Waste Receiv		R S ENVIRONMENTAL FIELI	O SERVICES OF	Waste Trans:	R S ENVIRONMENTAL F	IELD SERVICES (
Receiving Ad	ldr:	B.C. INC. 104 - 1772 BROADWAY ST,	PORT	Trans Addr:	B.C. INC. 104 - 1772 BROADWAY \$	ST, PORT
Waste Name:		COQUITLAM, BC POISONOUS SOLI	DS, N.O.S.		COQUITLAM, BC	
			,			
<u>4</u>	3 of 4	NE/190.4	23.1/-4.35	CAPITAL HEALTI	REGION	PCB
-				1 HOSPITAL WAY		FUB
				VICTORIA BC V82	7 6R5	

Мар Кеу	Number Records		Direction/ Distance (m)	Elev/Diff (m)	Site		DB
BCG NO: Status:		BCG00316 ACTIVE	i		Status Date: Region:	14-NOV-00 VANCOUVER ISLAND	
<u>Details</u> Waste Descr Storage: Waste in 30 I Generating D Handling Des	Days: Description:	0 8 G	POLYCHLORINAT KG 113 KG GENERATED ONE STORAGE				
Waste Descr Storage: Waste in 30 I Generating D Handling Des	Days: Description:	1 0 0	POLYCHLORINAT 2 L 1 L GENERATED CON STORAGE				
Waste Descr Storage: Waste in 30 I Generating D Handling Des	Days: Description:	2 0 G	POLYCHLORINAT 105 L 1 L GENERATED ONE STORAGE				
Waste Descr Storage: Waste in 30 I Generating D Handling Des	Days: Description:	5 0 G	POLYCHLORINAT 41 L L GENERATED ONE STORAGE				
Waste Descr Storage: Waste in 30 I Generating D Handling Des	Days: Description:	0 1 G	POLYCHLORINAT KG 376 KG GENERATED ONE STORAGE				
Waste Descr Storage: Waste in 30 I Generating D Handling Des	Days: Description:	0 3 G	POLYCHLORINAT   KG  588 KG GENERATED ONE  STORAGE				
Waste Descr Storage: Waste in 30 I Generating D Handling Des	Days: Description:	0 3 G	POLYCHLORINAT KG 818 KG GENERATED ONE STORAGE				
Waste Descr Storage: Waste in 30 I Generating D Handling Des	Days: Description:	0 8 G	POLYCHLORINAT KG 575 KG SENERATED ONE STORAGE				
<u>4</u>	4 of 4		NE/190.4	23.1/-4.35	CAPITAL HEAL 1 Hospital Way Victoria BC V8Z		REC
Company NC Year: Region:	D:	2	3CG00316 007 /ANCOUVER ISLA	AND			
<u>Details</u> Type of Wast	te:	F	uel oil or Gas oil				

22

Map Key	Number Records		Elev/Diff (m)	Site		DB
<u>5</u>	1 of 1	NE/364.1	20.1/-7.41	Capital Health Region 35 Helmcken Road, Vi BC		GEN
Generator No Status: Region: Mailing Addr Waste Gener Comments:	r:	BCG00316 Active VANCOUVER ISLAND 1 Hospital Way, Vid 35 Helmcken Road FORMERLY GREA	l, Victoria	Status Date: Registration Dt: DSPITAL SOCIETY(GVHS)	14-Nov-2000 13-Jan-1995	
<u>Details</u> Business Ty <sub>l</sub> Physical Sta Amount in S TDG PIN No: Certified By Waste:	te: torage:	Infectious substance	ces, human, n.o.s.	Generation Code: Handling Code: Amount per 30 Days: TDG Class: Date Certifier Signed:		
Business Ty Physical Sta Amount in S TDG PIN No: Certified By Waste:	te: torage:	GENERAL HOSPITALS Solid UN2814 Wolfgang Lehwald Infectious Substant	ces, Human, N.O.S.	Generation Code: Handling Code: Amount per 30 Days: TDG Class: Date Certifier Signed:	Continuously Thermal Treatment 12000 KG 6.2 02-Jan-1992	
<u>6</u>	1 of 1	S/995.3	15.4 / -12.12	E & N Rail Trail, Victo E & N RAIL TRAIL - AI CRAIGFLOWER CREE VICTORIA BC	DJACENT TO	SREG
Site ID: Victoria File Regional File Record Statu Status as of: Cleanup Stat Category: Location Des Site Note:	e No: us: tus:		OVIDED BY CONSU ciated Sites for this s		05-Dec-2014 08-May-2015 07-May-2015 N/A 48d 27m 23.0s 123d 26m 02.0s 48.456389 123.433889	
Registry Not Event ID: Notation Typ Initiated Date Approved Da Region: Ministry Con Notation Not Required Ac Requirement	be and Act: e: ate: ntact: tes: tions: t Due Date:	General 07-May-2015 07-May-2015 Nanaimo, Vancouw SAMWAYS, JENN Completed: 2014-0 No Actions Entered	rer Island IFER )3-25	ATION COMPLETION SUE	3MITTED. Environmental Man	agement Act:
Participant:		Mcelhanney Consulting Serv	ices Ltd	Role:	SUBMITTED BY	
<u>Registry Not</u>	tations					

Мар Кеу	Number Records		Direction/ Distance (m)	Elev/Diff (m)	Site	DE
Event ID: Notation Type Initiated Date Approved Da Region: Ministry Cont Notation Note Required Act Requirement Requirement	e: te: tact: es: tions: Due Date:	ate:	75472 NOTICE OF INDEPI 03-Dec-2014 03-Dec-2014 Nanaimo, Vancouve SAMWAYS, JENNIF Start: 2014-12-03 No Actions Entered	r Island	DIATION INITIATION	N SUBMITTED. Environmental Management Act: Gene
Participant:		Mcelhani	ney Consulting Servic	es Ltd	Role:	SUBMITTED BY
Registry Nota	ations					
Event ID: Notation Type Initiated Date Approved Da Region: Ministry Com Notation Note Required Act Requirement Requirement	e: te: tact: es: tions: Due Date:	ate:	75532 SITE RISK CLASSIF 02-Dec-2014 02-Dec-2014 Nanaimo, Vancouve O'GRADY, TYLER No Notes Entered No Actions Entered		NON-HIGH RISK. Env	vironmental Management Act: General
Participant:		Mcelhani	ney Consulting Servic	es Ltd	Role:	SUBMITTED BY
Site Participa	<u>ants</u>					
Participant: Participation Notes:	Туре:	Site Infor EMP	mation Advisor		Start Date: End Date:	Dec-03-2014
Participants I	Role:		Ministry Contact			
Site Participa	<u>ants</u>					
Participant: Participation Notes:	Туре:	Capital R ORG	egional District		Start Date: End Date:	Dec-03-2014
Participants I	Role:		Property Owner			
Site Participa	<u>ints</u>					
Participant: Participation Notes:	Туре:	O'Grady, EMP	Tyler		Start Date: End Date:	Dec-02-2014
Participants I	Role:		Ministry Contact			
Site Participa	<u>ants</u>					
Participant: Participation Notes:	Туре:	Mcelhanı ORG	ney Consulting Servic	es Ltd	Start Date: End Date:	Dec-02-2014
Participants I	Role:		Environmental Cons	ultant/Contracto	r	

Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Parcel Descri	iptions				
Date Added:	12/4/201	4		Crown Land PIN#:	
LTO PID(s):	024-635-	987		Crown Land File#:	
Land Descrip	otion:	LOT 1 SECTIONS 8	AND 27 ESQU	IMALT DISTRICT PLAN VIP69799	

25

# Unplottable Summary

# Total: <u>4</u> Unplottable sites

DB	Company Name/Site Name	Address	City	Postal
GEN2	QUANTUM FACILITIES INC.	GOLDSTREAM PARK HWY 1, VICTORIA, BC	BC	
GEN2	JENKINS MARINE	D JETTY COLWOOD-WILDERT RD, VICTORIA, BC	BC	
GEN2	QUANTUM FACILITIES INC.	GOLDSTREAM PARK HWY 1, VICTORIA, BC	BC	
SCT	Northern Lights Candles 2008	RR 1 Site 9 C-5 Sany Bay	Victoria BC	VOL 1W0

# **Unplottable Report**

### <u>Site:</u> QUANTUM FACILITIES INC. GOLDSTREAM PARK HWY 1, VICTORIA, BC BC



Manifest No:	BH835841	Date Shipped:	01-06-2012
TDG Code:	BC0007	Date Received:	01-06-2012
TDG Class:	9.0-MISCELLANEOUS	Copy 3 Date:	01-16-2012
TDG Group:	III-Moderately Dangerous	Qty Shipped:	588 L
Packing Code:	03-Bulk	Qty Rcvd:	588 L
Handling Code:	01-Storage	Trans Lic No:	LT0029
Waste Receiver:	NEWALTA CORPORATION	Waste Trans:	MCRAE'S ENVIRONMENTAL SERVICES LTD.
Receiving Addr:	1080 MAUGHAN RD, NANAIMO, BC	Trans Addr:	7783 PROGRESS WAY, DELTA, BC
Waste Name:	(L17 OILY WATER SLUDGE/DEE	BRIS)CERAMIC BEADS, WA	ASTE OIL FILTER CAKE, ALUMINIUM, SAND

# <u>Waste Manifests - 2014</u>

JENKINS MARINE

Site:

Manifest No:	BJ912234	Date Shipped:	01-20-2014
TDG Code:	BC0007	Date Received:	01-21-2014
TDG Class:	9.0-MISCELLANEOUS	Copy 3 Date:	03-28-2014
TDG Group:	III-Moderately Dangerous	Qty Shipped:	200 L
Packing Code:	03-Bulk	Qty Rcvd:	197 L
Handling Code:	03-Chemical Treatment	Trans Lic No:	LT0765
Waste Receiver:	TERVITA ENVIRONMENTAL SERVICES LTD.	Waste Trans:	TERVITA ENVIRONMENTAL SERVICES LTD.
Receiving Addr:	825 ADMIRALS ROAD, VICTORIA, BC	Trans Addr:	13511 VULCAN WAY, RICHMOND, BC
Waste Name:	(L17 OILY WATER SLUDGE/DEBRIS)	CERAMIC BEADS, WA	ASTE OIL FILTER CAKE, ALUMINIUM, SAND

### <u>Site:</u> QUANTUM FACILITIES INC. GOLDSTREAM PARK HWY 1, VICTORIA, BC BC

D JETTY COLWOOD-WILDERT RD, VICTORIA, BC BC

# Waste Manifests - 2012

Manifest No:	BH835841	Date Shipped:	01-06-2012
TDG Code:	BC0001	Date Received:	01-06-2012
TDG Class:	9.0-MISCELLANEOUS	Copy 3 Date:	01-16-2012
TDG Group:	III-Moderately Dangerous	Qty Shipped:	20 L
Packing Code:	03-Bulk	Qty Rcvd:	20 L
Handling Code:	01-Storage	Trans Lic No:	LT0029
Waste Receiver:	NEWALTA CORPORATION	Waste Trans:	MCRAE'S ENVIRONMENTAL SERVICES LTD.
Receiving Addr:	1080 MAUGHAN RD, NANAIMO, BC	Trans Addr:	7783 PROGRESS WAY, DELTA, BC
Waste Name:	LEACHABLE TOXIC -L17 OIL,CC SOLVENT	MPRESSION OIL, GEAR, H	IYDRAULIC. GREASE, AQUACENT, PREMIUM

## <u>Site:</u> Northern Lights Candles 2008 RR 1 Site 9 C-5 Sany Bay Victoria BC V0L 1W0

Established: Plant Size (ft²): Employment:

27

3/1/2008 1200 Database: GEN2

Database: SCT

Database: GEN2

Database: GEN2 <u>--Details--</u> Description: SIC/NAICS Code:

All Other Miscellaneous Manufacturing 339990

Environmental Risk Information Services (ERIS) can search the following databases. The extent of historical information varies with each database and current information is determined by what is publicly available to ERIS at the time of update. Note: Databases denoted with "\*" indicates that the database will no longer be updated. See the individual database description for more information.

# Authorization Management System (formerly WASTE):

AMS is the Ministry of Environment's waste permit administration system. It maintains data related to the administration of permits issued under the Environmental Management Act and registrations under various regulations where the regulation requires a discharger to register. It will include information such as companies or individuals permitted to discharge waste; type of business and locations at which waste disposal is permitted; the types, amounts and frequency of waste products that are permitted to be discharged at given locations; issue date and more. This was previously referred to as the "WASTE" database.

Government Publication Date: 1957-Sep 30, 2018

### Assessment Report Indexing System:

Automobile Wrecking & Supplies:

# British Columbia Ministry of Employment and Investment, where they are then maintained and housed by the Geological Survey Branch. The assessment reports provided by the Geological Survey Branch contain summary information for reports approved to November 1998; on geology, geophysics, geochemistry, drilling, prospecting and physical work. Government Publication Date: Mar 31, 2019

This database provides an inventory of known locations that are involved in the scrap metal, automobile wrecking/recycling, and automobile parts & supplies industry. Information is provided on the company name, location and business type.

regarding well number, well name, operator name, location, depth, status, as well as drill date and type. Please note that this database will not be updated, information on wells drilled after January 2006 can be found in the Oil and Gas Wells (OGW) database under the 'Private Source Database'

Government Publication Date: 1999-Jan 31, 2019

# BC Oil and Gas Wells:

Dry Cleaning Facilities:

Chemical Register:

### section. Government Publication Date: 1918-Jan 2006\*

List of dry cleaning facilities made available by Environment and Climate Change Canada. Environment and Climate Change Canada's Tetrachloroethylene (Use in Dry Cleaning and Reporting Requirements) Regulations (SOR/2003-79) are intended to reduce releases of tetrachloroethylene to the environment from dry cleaning facilities. Government Publication Date: Jan 2004-Dec 2017

CHEM This database includes a listing of locations of facilities within the Province or Territory that either manufacture and/or distributes chemicals.

Government Publication Date: 1999-Jan 31, 2019

# **Compressed Natural Gas Stations:**

Canada has a network of public access compressed natural gas (CNG) refuelling stations. These stations dispense natural gas in compressed form at 3,000 pounds per square inch (psi), the pressure which is allowed within the current Canadian codes and standards. The majority of natural gas refuelling is located at existing retail gasoline that have a separate refuelling island for natural gas. This list of stations is made available by the Canadian Natural Gas Vehicle Alliance. Government Publication Date: Dec 2012 - Mar 2019

Coal Tar Sites: COAL This one-time study is an inventory of all known and historical coal tar sites, identifying sites that produced coal tar and other related tars during the mid 1800's to the mid 1900's.

Government Publication Date: 1992\*

Private

Provincial

Provincial

Provincial

Federal

BOGW The BC Oil and Gas Wells database was collected from the BC Oil and Gas Commission and is a comprehensive database that includes information

CDRY

CNG

Private

Private

Provincial

ARIS Within British Columbia, the "Mineral Tenure Act Regulation", requires that results of mineral exploration and development programs be submitted to the

AMS

AUWR

# Compliance and Enforcement Summary:

# Wastewater Discharge Inventory:

Environmental Effects Monitoring:

ERIS Historical Searches:

The Environmental Effects Monitoring program assesses the effects of effluent from industrial or other sources on fish, fish habitat and human usage of fisheries resources. Since 1992, pulp and paper mills have been required to conduct EEM studies under the Pulp and Paper Effluent Regulations. This database provides information on the mill name, geographical location and sub-lethal toxicity data.

This database summarizes orders, tickets and convictions issued by the Ministry of the Environment under applicable ministry and federal legislation. Orders are issued when action is required to prevent or stop actual or potential impact to the environment. Tickets apply to all tickets paid, deemed quilty by non-payment or expiry, or contested in court and found guilty by a judge. Convictions apply to all court convictions of ministry legislation as well as federal legislation where the ministry has taken action. This reporting summary began in January 2006, replacing Non-Compliance Reports by the former Ministry of Water, Land & Air Protection. See the Non-Compliance Reports (NCPL) database below for more information. This database is part

of a larger COORS (Conservation Officer On-Line Reporting System) database controlled by the Ministry of Environment in BC.

ERIS has compiled a database of all environmental risk reports completed since March 1999. Available fields for this database include: site location, date of report, type of report, and search radius. As per all other databases, the ERIS database can be referenced on both the map and "Statistical

Environmental Issues Inventory System: The Environmental Issues Inventory System was developed through the implementation of the Environmental Issues and Remediation Plan. This plan was established to determine the location and severity of contaminated sites on inhabited First Nation reserves, and where necessary, to remediate those that posed a risk to health and safety; and to prevent future environmental problems. The EIIS provides information on the reserve under investigation, inventory number, name of site, environmental issue, site action (Remediation, Site Assessment), and date investigation completed. Government Publication Date: 1992-2001\*

List of environmental monitoring locations included in the Environmental Monitoring System (EMS) maintained by BC's Ministry of the Environment. EMS is the ministry's primary monitoring data repository. The system was designed to capture data covering physical/chemical and biological analyses performed on water, air, solid waste discharges and ambient monitoring sites throughout the province.

**FCON** Environment Canada maintains a database referred to as the "Environmental Registry" that details prosecutions under the Canadian Environmental Protection Act (CEPA) and the Fisheries Act (FA). Information is provided on the company name, location, charge date, offence and penalty.

Contaminated Sites on Federal Land: The Federal Contaminated Sites Inventory includes information on known federal contaminated sites under the custodianship of departments, agencies and consolidated Crown corporations as well as those that are being or have been investigated to determine whether they have contamination arising from past use that could pose a risk to human health or the environment. The inventory also includes non-federal contaminated sites for which the Government of Canada has accepted some or all financial responsibility. It does not include sites where contamination has been caused by, and which are under the control of, enterprise Crown corporations, private individuals, firms or other levels of government.

Government Publication Date: Jun 2000-Oct 2018

**Commercial Fisheries:** 

30

Federal Convictions:

The Fisheries, Aquaculture & Commercial Fisheries Branch of the Ministry of Water, Land & Air Protection maintains a database of fish processing plant approvals, licenses and activities. Each year, licenses need to be renewed. Government Publication Date: 1993-2019

FOFT Fisheries & Oceans Canada maintains an inventory of aboveground & underground fuel storage tanks located on Fisheries & Oceans property or controlled by DFO. Our inventory provides information on the site name, location, tank owner, tank operator, facility type, storage tank location, tank contents & capacity, and date of tank installation.

Government Publication Date: 1964-Sep 2018

Government Publication Date: 1990-Dec 2018

# therefore the database will not be updated. Government Publication Date: 1957-1995\*

Government Publication Date: 1992-2007\*

# Profile" page. Government Publication Date: 1999-Apr 30, 2019

# Environmental Monitoring Locations:

# Government Publication Date: Mar 2011-Mar 31, 2019

# Government Publication Date: 1988-Jun 2007\*

# Fisheries & Oceans Fuel Tanks:

# EM

FCS

FISH

# Federal

# Federal

# Provincial

Federal

### CONV

DIS

EEM

EHS

### This inventory contains information regarding direct dischargers of toxic pollutants for the following operations: Industrial; Commercial; Agricultural; Mining; Municipal; Urban; Aquaculture; and Pulp & Paper, operating under provincial permits. Please note that this program was discontinued and

Provincial

Provincial

Federal

Private

Federal

Provincial

EIIS

Waste Generators Summary:

Within British Columbia, the Special Waste Regulation defines a waste generator as any site, equipment and/or operation involved in the production, collection, handling and/or storage of regulated wastes. A generator of regulated waste is reguired to register the waste generation site and each waste produced, collected, handled, or stored at the site. This database contains the registration number (BCG#), company name and address of registered generators; including the types of hazardous wastes generated and the form of treatment used in the handling of the waste. Some of "Waste Generators Summary" addresses may represent mailing addresses rather than waste/hazardous sites. This information is a summary of all years from June 1993 to September 2010. Please note that a British Columbia Generator number (BCG#) are not unique to a company. This database is part of a larger SWIS (Special Waste Information System) database controlled by the Ministry of Environment in BC. Waste Generators Summary data are historic and no longer being updated.

Government Publication Date: 1993-Sep 30, 2017

The Special Waste Information System (SWIS) maintained by the BC Ministry of Environment holds information related to the generation and transportation of hazardous waste under the Hazardous Waste Regulation. This is a list of waste shipper sites (waste generators) included in hazardous waste transport manifests from 2011 - 2014, accompanied by manifest details.

Government Publication Date: Jan 2011-Dec 2014

Greenhouse Gas Emissions from Large Facilities:

Generators - Special Waste Information System (SWIS):

List of greenhouse gas emissions from large facilities made available by Environment Canada. Greenhouse gas emissions in kilotonnes of carbon dioxide equivalents (kt CO2 eq). Government Publication Date: 2013-Dec 2017

Hazardous Waste Facilities: HWF A list of Hazardous Waste Facilities in British Columbia made available by the Ministry of Jobs, Trade and Technology in the BC Data Catalogue. Government Publication Date: Sep 30, 2017

Indian & Northern Affairs Fuel Tanks: IAFT The Department of Indian & Northern Affairs Canada (INAC) maintains an inventory of aboveground & underground fuel storage tanks located on both federal and crown land. Our inventory provides information on the reserve name, location, facility type, site/facility name, tank type, material & ID number, tank contents & capacity, and date of tank installation.

Government Publication Date: 1950-Aug 2003\*

### This database provides information regarding the general location and estimated annual output capacity of major timber processing facilities within the province of British Columbia. Government Publication Date: 1997-2017

Private Canadian Mine Locations: MINE This information is collected from the Canadian & American Mines Handbook. The Mines database is a national database that provides over 290 listings on mines (listed as public companies) dealing primarily with precious metals and hard rocks. Listed are mines that are currently in operation, closed, suspended, or are still being developed (advanced projects). Their locations are provided as geographic coordinates (x, y and/or longitude, latitude). As of 2002, data pertaining to Canadian smelters and refineries has been appended to this database.

Government Publication Date: 1998-2009\*

Minerals Deposits Database:

Lumber Mills:

The Ministry of Energy and Mines maintains a database of more than 12,000 metallic mineral, industrial mineral and coal deposits and occurrences within British Columbia. Information within our report pertains to primary name, elevation, mining division, commodities, and status. Please note that as of January 27, 1999, information included within this database was divided into 2 categories: released and unreleased areas. Records for unreleased areas may contain incomplete, unedited, and/or inaccurate data.

Government Publication Date: May 30, 2018

# National Analysis of Trends in Emergencies System (NATES):

In 1974 Environment Canada established the National Analysis of Trends in Emergencies System (NATES) database, for the voluntary reporting of significant spill incidents. The data was to be used to assist in directing the work of the emergencies program. NATES ran from 1974 to 1994. Extensive information is available within this database including company names, place where the spill occurred, date of spill, cause, reason and source of spill, damage incurred, and amount, concentration, and volume of materials released. Government Publication Date: 1974-1994\*

Federal

Provincial

Provincial

Federal

Provincial

Provincial

Federal

31



Provincial

GEN

GEN2

GHG

LUM

**MNR** 

NATE

# Non-Compliance Reports:

# Government Publication Date: 1990-Mar 2001\*

and Enforcement Summary (CPL) database above for more information.

### National Defense & Canadian Forces Fuel Tanks: The Department of National Defense and the Canadian Forces maintains an inventory of all aboveground & underground fuel storage tanks located on

### prohibited any release of this database. Government Publication Date: Up to May 2001\*

National Defense & Canadian Forces Spills:

The Department of National Defense and the Canadian Forces maintains an inventory of spills to land and water. All spill sites have been classified under the "Transportation of Dangerous Goods Act - 1992". Our inventory provides information on the facility name, location, spill ID #, spill date, type of spill, as well as the quantity of substance spilled & recovered.

The Department of National Defence and the Canadian Forces maintains an inventory of waste disposal sites located on DND lands. Where available, our inventory provides information on the base name, location, type of waste received, area of site, depth of site, year site opened/closed and status.

DND lands. Our inventory provides information on the base name, location, tank type & capacity, tank contents, tank class, date of tank installation, date tank last used, and status of tank as of May 2001. This database will no longer be updated due to the new National Security protocols which have

From 1990 to March 2001 the Ministry of Water, Land & Air Protection maintained a reporting system that identified any reported concern that pertained to compliance with authorized waste management permits or plans, approvals, orders, operational certificates and regulations, or any other activity under the Waste Management Act. This reporting system was discontinued in April of 2001; therefore there will be no updates to this database. However, beginning in January 2006 the Ministry of the Environment began publishing Compliance and Enforcement Summaries. See the Compliance

Government Publication Date: Mar 1999-Apr 2018

# National Defence & Canadian Forces Waste Disposal Sites:

# National Energy Board Pipeline Incidents:

Government Publication Date: 2001-Apr 2007\*

Locations of pipeline incidents from 2008 to present, made available by the National Energy Board (NEB). Includes incidents reported under the Onshore Pipeline Regulations and the Processing Plant Regulations related to pipelines under federal jurisdiction, does not include incident data related to pipelines under provincial or territorial jurisdiction. Government Publication Date: 2008-Dec 31, 2018

The NEBW database contains information on onshore & offshore oil and gas wells that are outside provincial jurisdiction(s) and are thereby regulated by

# National Energy Board Wells:

# the National Energy Board. Data is provided regarding the operator, well name, well ID No./UWI, status, classification, well depth, spud and release date.

Government Publication Date: 1920-Feb 2003\*

# National Environmental Emergencies System (NEES):

### In 2000, the Emergencies program implemented NEES, a reporting system for spills of hazardous substances. For the most part, this system only captured data from the Atlantic Provinces, some from Quebec and Ontario and a portion from British Columbia. Data for Alberta, Saskatchewan, Manitoba and the Territories was not captured. However, NEES is also a repository for previous Environment Canada spill datasets. NEES is composed of the historic datasets ' or Trends ' which dates from approximately 1974 to present. NEES Trends is a compilation of historic databases, which were merged and includes data from NATES (National Analysis of Trends in Emergencies System), ARTS (Atlantic Regional Trends System), and NEES. In 2001, the Emergencies Program determined that variations in reporting regimes and requirements between federal and provincial agencies made national spill reporting and trend analysis difficult to achieve. As a consequence, the department has focused efforts on capturing data on spills of substances which fall under its legislative authority only (CEPA and FA). As such, the NEES database will be decommissioned in December 2004

Government Publication Date: 1974-2003\*

Government Publication Date: 1993-May 2017

# National PCB Inventory:

Environment Canada's National PCB inventory includes information on in-use PCB containing equipment in Canada including federal, provincial and private facilities. Federal out-of-service PCB containing equipment and PCB waste owned by the federal government or by federally regulated industries such as airlines, railway companies, broadcasting companies, telephone and telecommunications companies, pipeline companies, etc. are also listed. Although it is not Environment Canada's mandate to collect data on non-federal PCB waste, the National PCB inventory includes some information on provincial and private PCB waste and storage sites. Some addresses provided may be Head Office addresses and are not necessarily the location of where the waste is being used or stored. Government Publication Date: 1988-2008\*

### Federal National Pollutant Release Inventory: Environment Canada has defined the National Pollutant Release Inventory ("NPRI") as a federal government initiative designed to collect comprehensive national data regarding releases to air, water, or land, and waste transfers for recycling for more than 300 listed substances.

## Provincial

NCPL

NDFT

NDSP

**NDWD** 

NEBP

NEES

Federal

Federal

Federal

Federal

NEBI

Federal

Federal

Federal

**NPRI** 

NPCB

## emergency. Includes pipeline spills, releases, and damage to active and discontinued pipelines; does not include incidents that did not result in damage to the pipeline or a release of contents. Government Publication Date: Nov 30, 2018

**OGWW** The Nickle's Energy Group (publisher of the Daily Oil Bulletin) collects information on drilling activity including operator and well statistics. The well information database includes name, location, class, status and depth. The main Nickle's database is updated on a daily basis, however, this database is updated on a monthly basis. More information is available at www.nickles.com.

A list of oil and gas pipeline incidents in British Columbia made available by BC Oil and Gas Commission. An incident is defined as a present or imminent event or circumstance, resulting from oil and gas activity that is outside the scope of normal operations which may or may not be an

Canadian Pulp and Paper: PAP This information is part of the Pulp and Paper Canada Directory. The Directory provides a comprehensive listing of the locations of pulp and paper mills

Inventory of PCB Storage Sites: PCB The Ministry of Water, Land & Air Protection maintains a database of all active Polychlorinated Biphenyls (PCB) waste storage sites within the Special Waste Information System. Please note that there is no requirement to maintain an accurate listing of all inactive PCB waste storage equipment and/or disposal sites. The records within this database provide information regarding site name, location, an inventory of stored wastes and quantities, and status date (when site first active/inactive). Previous to May 1993, data was collected from a different source and is only available for 1989. Inventory of

Parks Canada Fuel Storage Tanks: Federal Canadian Heritage maintains an inventory of known fuel storage tanks operated by Parks Canada, in both National Parks and at National Historic Sites. The database details information on site name, location, tank install/removal date, capacity, fuel type, facility type, tank design and owner/operator. Government Publication Date: 1920-Jan 2005\*

This is a database of individuals who apply for a service or vendor license for the use of registered pesticides. A service license is denoted by an "S" in the license number, likewise, a vendor license by a "V" in the license number. Government Publication Date: 1989-Aug 2018

PRAI Within British Columbia, aggregate pits are designated as mines; and as such, the Ministry of Energy and Mines is responsible for their planning, management and regulation, including permitting, health, safety and reclamation. Owners or operators of all private aggregate pits must file Notices of Work as part of the permitting and reclamation process. In 1994, the Geological Survey Branch initiated the Aggregate Program, in order to establish an inventory of natural and crushed aggregate pits. Information about each pit in the database file includes its location, NTS map sheet number, Notice of Work file number and status (active/inactive) and the type of landform hosting the pit. This database was a one-time inventory and will not be updated. Government Publication Date: 1975-1996\*

Information about public aggregate pits in British Columbia is collected and managed by the Ministry of Transportation and Highways. Data has been gathered on more than 2000 pits, in respect to pit name, type and geographical location. Government Publication Date: 1960-2001\*

RFC The Special Waste Regulation defines the disposal of regulated waste through an operating waste management system or a waste disposal site operated or used pursuant to the terms and conditions of a Certificate of Approval or a Provisional Certificate of Approval. A waste receiving location is any site or facility to which waste is transferred through a waste carrier. A receiver of regulated waste is required to register the waste receiving facility. This database represents registered receivers of regulated wastes, identified by registration number, company name and address. Some of "Waste Receivers Summary" addresses may represent mailing addresses rather than waste/hazardous sites. This database is part of a larger SWIS (Special Waste Information System) database controlled by the Ministry of Environment in BC. Waste Receivers Summary data are historic and no longer being updated.

Government Publication Date: 1992-2010\*

erisinfo.com | Environmental Risk Information Services

# Oil and Gas Wells:

Government Publication Date: 1988-Feb 28, 2019

and the products that they produce.

Government Publication Date: 1999, 2002, 2004, 2005, 2009-2014

# PCB Storage Sites data are historic and no longer being updated.

Government Publication Date: 1989, May 1993-2010\*

# Pesticide Register:

# Private Aggregate Inventory:

# Public Aggregate Inventory:

# Waste Receivers Summary:

Provincial

### Provincial **OG INCIDENTS**

Private

Private

Provincial

PCFT

PES

PUAI

Provincial

Provincial

Provincial



33

<u>Receivers - Special Waste Information System (SWIS):</u>

The Special Waste Information System (SWIS) maintained by the BC Ministry of Environment holds information related to the generation and transportation of hazardous waste under the Hazardous Waste Regulation. This is a list of waste receiver sites included in hazardous waste transport manifests from 2011 - 2014, accompanied by manifest details.

Government Publication Date: Jan 2011-Dec 2014

# Retail Fuel Storage Tanks: This database includes an inventory of retail fuel outlet locations (including marinas) that have on their property gasoline, oil, waste oil, natural gas and /

or propane storage tanks.

Site Registry:

# Scott's Manufacturing Directory:

Government Publication Date: 1999-Jan 31, 2019

Scott's Directories is a data bank containing information on over 200,000 manufacturers across Canada. Even though Scott's listings are voluntary, it is the most comprehensive database of Canadian manufacturers available. Information concerning a company's address, plant size, and main products are included in this database. Government Publication Date: 1992-Mar 2011\*

This information is collected from the Ministry of Environment's Site Registry. It is not a registry of contaminated sites, although some sites on the registry are contaminated. Most sites have already been investigated and require minor remediation, or have already been cleaned up to government requirements. The Registry also stores environmentally relevant historic information about sites including: names of participants, legal and administrative notations, references to pertinent documents submitted to the ministry, associations with other sites, and much more. 1. Please note the information provided in the Detail Reports have been updated to the best of our ability as provided by the source, BC Government. For more information, please contact your ERIS sales representative.

Government Publication Date: Apr 30, 2019

Surrey Tank Construction Permits:

A list of building permits issued for the removal, construction, and decommissioning of storage tanks in the City of Surrey. This list is made available by the City of Surrey Building Division of the Department of Planning and Development. Government Publication Date: Dec 31, 2018

Transport Canada Fuel Storage Tanks: List of fuel storage tanks currently or previously owned or operated by Transport Canada. This inventory also includes tanks on The Pickering Lands, which refers to 7,530 hectares (18,600 acres) of land in Pickering, Markham, and Uxbridge owned by the Government of Canada since 1972; properties on this land has been leased by the government since 1975, and falls under the Site Management Policy of Transport Canada, but is administered by Public Works and Government Services Canada. This inventory provides information on the site name, location, tank age, capacity and fuel type. Government Publication Date: 1970-Aug 2018

Vancouver Heating Oil Underground Storage Tanks: VTNK A list of heating oil Underground Storage Tanks made available by the City of Vancouver. The City of Vancouver maintains records of UST removals, abandonments, and installations for heating oil storage tanks.

Government Publication Date: Jun 1995 - Apr 2019

# Waste Disposal Site Inventory:

This inventory pertains to active, regulated waste disposal sites within the province of British Columbia. Registered companies may hold a permit or certificate for release of the following waste types: Effluent, Refuse, Air and Special Waste Storage. Information on Waste Disposal Sites after 1998 is contained within the Authorizations (AUTH) database.

Government Publication Date: 1980-1998\*

## Water Well Information System:

This database was collected from the Groundwater Information Center of the Ministry of Water, Land & Air Protection and contains over 90,000 records. Comprehensive information is available for each well including: well location (address/site area), latitude/longitude, legal description (section, lot, plan, district lot, range, township), BCGS Mapsheet No., depth of well, construction dates, well status and lithology. The accuracy of well locations is also provided, as well as the reference source for obtaining geographic coordinates.

Government Publication Date: Jul 31, 2018

# Provincial

REC2

RST

SCT

SREG

**STNK** 

TCFT

WDS

**WWIS** 

Private

Private

Provincial

Provincial

Provincial

Federal

Provincial

Provincial

erisinfo.com | Environmental Risk Information Services

# Definitions

**Database Descriptions:** This section provides a detailed explanation for each database including: source, information available, time coverage, and acronyms used. They are listed in alphabetic order.

**Detail Report**: This is the section of the report which provides the most detail for each individual record. Records are summarized by location, starting with the project property followed by records in closest proximity.

Distance: The distance value is the distance between plotted points, not necessarily the distance between the sites' boundaries. All values are an approximation.

Direction: The direction value is the compass direction of the site in respect to the project property and/or center point of the report.

*Elevation:* The elevation value is taken from the location at which the records for the site address have been plotted. All values are an approximation. Source: Google Elevation API.

**Executive Summary:** This portion of the report is divided into 3 sections:

'Report Summary'- Displays a chart indicating how many records fall on the project property and, within the report search radii.

'Site Report Summary'-Project Property'- This section lists all the records which fall on the project property. For more details, see the 'Detail Report' section.

'Site Report Summary-Surrounding Properties'- This section summarizes all records on adjacent properties, listing them in order of proximity from the project property. For more details, see the 'Detail Report' section.

<u>Map Key:</u> The map key number is assigned according to closest proximity from the project property. Map Key numbers always start at #1. The project property will always have a map key of '1' if records are available. If there is a number in brackets beside the main number, this will indicate the number of records on that specific property. If there is no number in brackets, there is only one record for that property.

The symbol and colour used indicates 'elevation': the red inverted triangle will dictate 'ERIS Sites with Lower Elevation', the yellow triangle will dictate 'ERIS Sites with Higher Elevation' and the orange square will dictate 'ERIS Sites with Same Elevation.'

<u>Unplottables:</u> These are records that could not be mapped due to various reasons, including limited geographic information. These records may or may not be in your study area, and are included as reference.

APPENDIX IV Qualifications of Assessor



# **Qualifications of Assessors**

# Jessica Pagotto, B.Sc.

Senior Project Coordinator

Pinchin Ltd.

Jessica Pagotto joined Pinchin Ltd. in February 2010 after completing her Degree in Biological Science from the University of Guelph, in Guelph, Ontario. Jessica's experience includes full project office and field work for Phase I ESAs, Phase 2 ESAs, DSIs and soil and groundwater remediation. Jessica has also conducted environmental monitoring for several projects across British Columbia. She has experience in sediment and erosion control, compliance monitoring, spill and emergency response, water monitoring as well as writing Environmental Management Plans.

APPENDIX V Photographs





Photo 1 – View of the south elevation of Site Building A.



Photo 2 – West elevation of Site Building B.





Photo 3 – Heating oil AST adjacent to the west wall of Site Building A.



Photo 4 – Municipal water line and associated infrastructure constructed through the Site, as well as the northern portion of the Site.



Phase I Environmental Site Assessment 9 Erskine Lane, View Royal, British Columbia Photographs



Photo 5 – Properties located north of the Site.



Photo 6 - Properties located south of the Site.





Photo 7 – Properties located east of the Site.



Photo 8 – Properties located west of the Site.