



RECORD OF SITE CONDITION

3.4 Occupant(s)			
Are there occupants at the site?	☒ Yes	☐ No	☐ To be determined (TBD)
Occupant(s)	☒ Same as operator	☐ Same as landowner	☐ Other
What is the type of occupancy?	☐ Apartment building	☐ Town house	☐ Single detached house
	☐ Agricultural	☐ Industrial	☐ Commercial
	☒ Other (specify) <u>Public Works Building</u>		

4 OPERATING STATUS	
☐ Operating ☐ Suspended ☒ Abandoned ☐ Decommissioning in progress ☐ Closed ☐ Reclaimed (provide Reclamation Certificate No.(s): _____)	☐ Not applicable

5 TYPE OF ACTIVITY AND SITE					
5.1 Petroleum Storage Tank Site				☒ Yes	
5.1.1 AENV file No.(s)		PTMAA site No.		0119	
5.1.2 Types of activity					
☒ Retail gas station	☐ Aviation fuelling station	☐ Bulk fuel	☐ Other (specify): _____		
5.2 Upstream Oil and Gas Facility				☐ Yes	
5.2.1 AENV file No.(s)		ERCB authorization No.(s)			
5.2.2 ERCB authorization type		☐ Approval ☐ License ☐ Permit ☐ Order ☐ Other (specify) _____			
5.2.3 Types of activity					
☐ Wellsite and associated facility	☐ Satellite	☐ Battery	☐ Pipeline		
☐ Compressor and pumping station	☐ Other (specify): _____				
5.3 Approved Facility Under Environmental Protection and Enhancement Act (EPEA)					☐ Yes
5.3.1 AENV approval No.(s)					
5.3.2 Types of approved activity					
☐ Chemical manufacturing plant	☐ Enhanced recovery in-situ oil sands or heavy oil processing plant	☐ Fertilizer manufacturing plant	☐ Landfill		
☐ Metal manufacturing plant	☐ Oil refinery	☐ Oilsands processing plant	☐ Oil production site		
☐ Pesticide manufacturing plant	☐ Petrochemical manufacturing plant	☐ Pipeline	☐ Power plant		
☐ Pulp and paper processing plant	☐ Sour gas processing plant	☐ Sulphur manufacturing or processing plant	☐ Waste management facility		
☐ Wood treatment plant	☐ Other (specify): _____				

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5.4 Facility Under EPEA Code of Practice				☐ Yes	
5.4.1 AENV registration No.(s)					
5.4.2 Type of Code of Practice					
☐ Asphalt paving plant	☐ Compressor and pumping station	☐ Concrete producing plant	☐ Landfill		
☐ Pesticides	☐ Pipeline	☐ Land treatment of soils containing hydrocarbons	☐ Sand and gravel pit		
☐ Small incinerator	☐ Sweet gas processing plant	☐ Other (specify): _____			
5.5 Other Activity					
☐ Yes					
5.5.1 AENV file No.(s)		Other site ID No.(s)		Authorized by	
5.5.2 Types of activity					
☐ Dry cleaning operation	☐ Highway maintenance yard	☐ Transportation			
☐ Other (specify): _____					

6 SITE CHARACTERIZATION					
6.1 What Environmental Site Assessments (ESA) Have Been Conducted and Completed to Date?					
☐ Phase I ESA ☒ Phase II ESA (check all that apply.) ☒ Initial intrusive sampling ☐ delineation completed ☐ post-remediation monitoring ☐ final confirmatory sampling					
6.2 Contaminants of Potential Concern (COPC)					
6.2.1 Does the site have any of the conditions that require the mandatory use of Alberta Tier 2 Soil and Groundwater Remediation Guidelines (2008), as amended? (check all that apply in Section 6.2.1.1.)					
☒ Yes ☒ No (→ proceed to Section 6.2.2.)					
6.2.1.1 Identify any conditions that require the approaches of the Alberta Tier 2 guidelines. (see Alberta Tier 1 Soil and Groundwater Remediation Guidelines (2008), as amended, for details.)					
☒ Contamination within 30 cm of building foundation	☒ Unusual building feature (eg. earthen floor)	☐ Contamination within 10 m distance of surface water body			
☒ Fractured bedrock	☐ Potentially high hydraulic conductivity ($> 10^{-5}$ m/sec.)	☐ Other (see Alberta Tier 1 guidelines and specify): _____			
6.2.1.2 Did the Alberta Tier 2 approach lead to a soil or groundwater guideline that was lower than the corresponding Tier 1 guideline for the same contaminant(s)?					
☐ Yes ☐ TBD ☐ No (→ proceed to Section 6.2.2.)					
6.2.1.3 If you answered 'yes' or 'TBD' to Section 6.2.1.2, identify the group of contaminants for each COPC with a mandatory Tier 2 guideline that is lower than the corresponding Tier 1 guideline (check all that apply, see Alberta Tier 1 guidelines, Tables 1-4 for detailed listing).					
☐ General and inorganic parameters	☐ Metals				
☐ Hydrocarbons	☐ Halogenated aliphatics				
☐ Chlorinated aromatics	☐ Pesticides				
☐ Other organics	☐ Radionuclides				
☐ Salt	☐ Other (specify): _____				

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6.2.1.4 Did any past or current ESA relevant to this investigation identify an exceedance of the mandatory Tier 2 guidelines referred to in Section 6.2.1.3 (e.g. Tier 2 guidelines that are lower than the corresponding Tier 1 guidelines)?		☐ Yes	☐ No	☐ TBD
6.2.1.5 If you answered 'yes' in Section 6.2.1.4, have all relevant COPC been remediated to meet the mandatory Tier 2 guidelines?		☐ Yes	☐ No	
6.2.2. Did any past or current ESA relevant to this investigation identify a drilling waste disposal area?				
☐ Yes ☒ No (→ proceed to Section 6.2.3.)				
6.2.2.1 If a drilling waste disposal area was identified, did any past or current ESA identify non-compliance with the compliance options outlined in <i>Assessing Drilling Waste Disposal Areas: Compliance Options for Reclamation Certification</i> (AENV, 2007), as amended?				
☐ Yes ☐ No				
6.2.2.2 If you answered 'yes' in Section 6.2.2.1, have all COPC been remediated to meet the compliance options outlined in <i>Assessing Drilling Waste Disposal Areas: Compliance Options for Reclamation Certification</i> (AENV, 2007), as amended?				
☐ Yes ☐ No				
6.2.2.3 For any COPC that did not meet the compliance options in <i>Assessing Drilling Waste Disposal Areas</i> , identify the group of contaminants (check of all that apply, see the Alberta Tier 1 guidelines, Tables 1-4 for detailed listing).				
☐	General and inorganic parameters	☐	Metals	
☐	Hydrocarbons	☐	Halogenated aliphatics	
☐	Chlorinated aromatics	☐	Pesticides	
☐	Other organics	☐	Radionuclides	
☐	Salt	☐	Other (specify): _____	
6.2.3 For all areas and COPCs not assessed under Sections 6.2.1 or 6.2.2, did any ESA relevant to this investigation identify an exceedance over the Alberta Tier 1 guidelines?				
☒ Yes ☐ No (→ proceed to Section 6.3.)				
6.2.3.1 If you answered 'yes' in Section 6.2.3, have all COPC been remediated to meet the Alberta Tier 1 guidelines?				
☐ Yes ☒ No ☐ TBD				
6.2.3.2 For any COPC that exceeded Alberta Tier 1 guidelines in Section 6.2.3.1, identify the group of contaminants. (check all that apply, see the Alberta Tier 1 guidelines, Tables 1-4 for detailed listing.)				
☐	General and inorganic parameters	☐	Metals	
☒	Hydrocarbons	☐	Halogenated aliphatics	
☐	Chlorinated aromatics	☐	Pesticides	
☐	Other organics	☐	Radionuclides	
☐	Salt	☐	Other (specify): _____	

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6.3 Status of Investigation

6.3.1 Identify soil and groundwater guidelines used to assess the COPCs that are the subject of this investigation (check all that apply).

- ☒ Alberta Tier 1 Soil and Groundwater Remediation Guidelines – 2008, as amended
☐ Coarse grained ☒ Fine grained
☒ Alberta Tier 2 Soil and Groundwater Remediation Guidelines – 2008, as amended
☒ Pathway exclusion ☐ Guideline adjustment ☐ Site specific remediation objectives
☐ Assessing Drilling Waste Disposal Areas: Compliance Options for Reclamation Certification (AENV, 2007), as amended
☐ Other (specify): _____

6.3.2 What land use classification(s) is used?

- ☐ Natural ☐ Agricultural ☒ Residential ☐ Commercial ☐ Industrial ☐ Other (specify: _____)

6.3.3 What is the outcome of the investigation? (check one only.)

- ☐ For all COPCs on-site and off-site, no exceedance has been found above any applicable soil and groundwater guidelines in any prior and current assessments.
☐ All contamination on-site and off-site has been completely remediated and meets the applicable soil and groundwater guidelines.
☒ One or more COPC still exceeds the applicable soil or groundwater guidelines.

6.3.4 How many contaminated areas are there currently at the site?

- _____ ☐ None ☒ TBD

6.3.5 Are all contaminated areas and potential contaminated areas assessed during this investigation?

- ☐ Yes ☒ No

6.3.6 For all areas of potential environmental concern, list the dates when the contamination was discovered (specify dd-mon-yyyy): 17-Nov-08; 12-Mar-09

6.3.7 For all areas that have been identified in Section 6.3.4, have all substance releases been reported to AENV?

- ☒ Yes ☒ No ☐ Not applicable

6.3.8 If the answer to Section 6.3.7 is 'yes', list all Incident No.(s) (attach separate sheet if necessary):

- 294-719; _____ ☐ Not assigned

6.3.9 What is the approximate, cumulative amount of land area remaining exceeding applicable remediation guidelines? _____ (m²) ☐ None ☒ TBD

6.3.10 Is there non-aqueous phase liquid (NAPL) product remaining on site? ☒ Yes ☐ No ☐ TBD

6.3.11 Is there non-aqueous phase liquid (NAPL) product remaining off site? ☒ Yes ☐ No ☐ TBD

6.3.12 What is the remediation status of the contaminated areas at site?

- | | |
|---|---|
| ☐ No remediation required | ☒ Site has exceedance but no remediation plan |
| ☐ Remediation plan developed | ☐ Active remediation |
| ☐ Remediation completed | ☐ Post remediation assessment completed |
| ☐ Ongoing risk management plan – on-site | ☐ Ongoing risk management plan – off-site |
| ☐ Remediation Certificate issued for some area(s) (provide Remediation Certificate No.(s): _____) | |
| ☐ Remediation Certificate cancelled for some area(s) (provide Remediation Certificate No.(s): _____) | |

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Direction for Completing the Remainder of the Form

Attach the analytical summary tables of the COPCs that are the subject of this investigation and still present at this site. A detailed listing of COPCs can be found with Tables 1-4 in *Alberta Tier 1 Soil and Groundwater Remediation Guidelines* (AENV, 2008), as amended. Refer to the *RSC User's Guide* for detailed information on format and other requirements regarding the summary table.

For the remainder of the form, follow the directions below:

- If the COPCs on-site and off-site have never exceeded any applicable soil and groundwater guidelines in any prior and current assessments, → proceed to Section 8, or
- If the COPCs on-site and off-site have been completely remediated and meet the applicable soil and groundwater guidelines, → proceed to Section 8, or
- For all other circumstances, continue with Section 6.4.

6.4 Key Transport Factors for Existing COPCs

6.4.1 What is the horizontal distance to the nearest water well from the edge of the nearest contaminated area?
☐ 0-50 m ☒ 50-100 m ☐ 100-300 m ☐ 300-1000 m ☐ > 1000 m

6.4.2 What is the horizontal distance to the nearest surface water body from the edge of the contaminated area?
☐ ≤10 m ☐ 10-50 m ☐ 50-100 m ☐ 100-300 m ☒ 300-1000 m ☐ > 1000 m

6.4.3 Does delineation achieve closure above the groundwater water table that is nearest to the ground surface?
☐ Yes (→ go to Section 6.5.) ☒ No ☐ TBD

6.4.4 Is the groundwater that is nearest the ground surface a domestic use aquifer (DUA) as defined in Alberta Tier 2 guidelines?
☒ Yes ☐ No ☐ TBD ☐ Not required (NR)

6.4.5 Is there a hydraulic barrier, as defined in Alberta Tier 2 guidelines, between the base of the contaminated area and the DUA?
☐ Yes ☒ No ☐ TBD ☐ NR

6.4.6 If you answered 'yes' to Section 6.4.5, provide the measured largest value of the hydraulic conductivity (as value $\times 10^{-7}$ m/sec.) for the 5.0 m vertical layer from the bottom of the contaminated zone.
 _____ ($\times 10^{-7}$ m/sec.) ☐ TBD ☐ NR

6.5 On-site Characterization

6.5.1 What is the dominant soil texture that governs substance transport at the site?
☐ Coarse grained ☒ Fine grained ☐ TBD ☐ Not applicable (must identify reason in Section 6.2.1.1.)

6.5.2 What are the shallowest and deepest measured depths (meters below ground surface) of the water table at site?
 Shallowest: 2.5 (m) Deepest: 3.0 (m) ☐ TBD ☐ NR (specify max. depth assessed: _____ (m))

6.5.3 What is the dominant horizontal direction of groundwater flow for the near surface water table?
 (N, NW, etc.: S) ☐ TBD ☐ NR

6.5.4 What is the existing land use classification?
☐ Natural ☐ Agricultural ☒ Residential ☐ Commercial ☐ Industrial ☒ Other (specify) _____

6.5.5 What is the end land use classification?
☐ Natural ☐ Agricultural ☒ Residential ☐ Commercial ☐ Industrial ☐ Other (specify) _____

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6.5.6 Identify exposure pathways for which the applicable guidelines are exceeded on-site (check all that apply).

☒ Vapour inhalation	☐ Soil ingestion
☒ Ingestion of potable water	☐ Soil dermal (skin) contact
☐ Fresh water aquatic life	☒ Soil contact for plants and invertebrates
☐ TBD	☒ Other (specify): <u>Management Limits</u>

6.6 Off-site Characterization

6.6.1 Are there COPCs off-site exceeding applicable soil or groundwater guidelines?

- ☐ No (→ if on-site contamination was reported, proceed to Section 7, otherwise, proceed to Section 8.)
☒ Yes ☐ TBD

6.6.2 What is the current land use classification for any off-site area(s) identified in Section 6.6.1?

- ☐ Natural ☐ Agricultural ☒ Residential ☐ Commercial ☐ Industrial ☐ Other (specify) _____

6.6.3 What is the end land use classification for any off-site area(s) identified in Section 6.6.1?

- ☐ Natural ☐ Agricultural ☒ Residential ☐ Commercial ☐ Industrial ☐ Other (specify) _____

6.6.4 Is there any substance concentration under a road allowance exceeding the applicable soil or groundwater guidelines?

- ☒ Yes ☐ No (→ proceed to Section 6.6.6.) ☐ TBD

6.6.5 What is the most sensitive land use classification adjacent to the road allowance?

- ☐ Natural ☐ Agricultural ☒ Residential ☐ Commercial ☐ Industrial ☐ Other (specify) _____

6.6.6 Identify exposure pathways for which the applicable guidelines are exceeded off-site (check all that apply).

☒ Vapour inhalation	☐ Soil ingestion
☒ Ingestion of potable water	☐ Soil dermal (skin) contact
☐ Fresh water aquatic life	☒ Soil contact for plants and invertebrates
☐ TBD	☐ Other (specify): _____

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7 RISK MANAGEMENT PLAN (RMP)

7.1 What is the Plan for Contaminated Areas Still Remaining on and off the Site? (check one only.)

- ☐ Complete remediation (→ proceed to Section 8).
☒ Partial remediation with risk management for some residual contamination.
☐ Risk management for all remaining contamination.

7.2 Key Progress of RMP

7.2.1 If the site needs an on-going RMP, answer all the following questions that apply to the RMP.

☐ Yes	☒ No	Are contaminated areas completely delineated horizontally and vertically in soil?
☐ Yes	☒ No	Are contaminated areas completely delineated horizontally and vertically in groundwater?
☐ Yes	☒ No	Is source identified and completely delineated?
☒ Yes	☐ No	Is source migrating or has migrated off-site?
☒ Yes	☐ No	Is source left as is?
☐ Yes	☒ No	Is source partially removed and residual source being managed?
☐ Yes	☒ No	Is source controlled with physical or administrative methods?
☒ Yes	☐ No	Are all pathways of concern identified?
☐ Yes	☒ No	Have all relevant receptors been identified and protected?
☐ Yes	☒ No	Is there a monitoring program in place to verify RMP success?
☒ Yes	☐ No	Are there third parties related to this RMP? (if the answer is 'no', skip the next question.)
☐ Yes	☒ No	If there are third parties, have all of them accepted the RMP?
☐ Yes	☒ No	Is there a commitment from person(s) responsible to implement and monitor the RMP until final remediation guidelines are achieved?
☐ Yes	☒ No	Is there a contingency plan in place should the RMP fail?
☐ Yes	☒ No	Is the RMP implemented for the site?

Public Disclosure and Privacy Notification

The Record of Site Condition form is a public record that is disclosed in accordance with section 35 of the *Environmental Protection and Enhancement Act*, *Disclosure of Information Regulation*, and *Ministerial Order 23/2004*. Reasonable efforts have been made to minimize collection of personal information where possible. Personal information on the form is collected under the authority of section 12(c) and other provisions of the *Environmental Protection and Enhancement Act* and is in compliance with section 33(a) and 33(c) of the *Freedom of Information and Protection of Privacy Act* (FOIP). Personal information collected on this form will be used by Alberta Environment for the purposes of administering its programs.

Accuracy of Information

The information in this document has been submitted by persons other than Alberta Environment. The Department and the Government of Alberta cannot and do not warrant that the information in this document is current, accurate, complete, or free of errors. Persons accessing the information provided should not rely on it, and any reliance on the information provided is taken at the sole risk of the user. Users of this information are advised to conduct their own due diligence to satisfy themselves of the environmental condition of the property of interest.

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8 DECLARATION

This *Record of Site Condition* form was prepared for the purpose of reporting on the state of environmental site conditions and, where applicable, for the purpose of remediation or reclamation, for:

VILLAGE OF BARONS - PUBLIC WORKS BUILDING (site name) (the "Site").

I, as the licensed operator or authorized representative, have reviewed all information that was used in preparation of this form and I am satisfied that it was prepared in a manner consistent with the Applicable Standard¹ together with any relevant additional guidance that is available from Alberta Environment as of this date for conducting environmental site assessments.

Having conducted reasonable inquiries to obtain all relevant information, to my knowledge, the statements made in this form are true as of this date. I have disclosed all pertinent information of which I am aware concerning the historical and current environmental condition of the Site to the Director.

Any use which a third party, other than the Crown in right of Alberta, makes of this form, or any reliance on or decisions to be made based on it, are the responsibility of such third parties. The undersigned accepts no responsibility for damages, if any, suffered by any third party, other than the Crown in right of Alberta, as a result of decisions made or actions based on this form. Any exclusions or disclaimers to the contrary contained in any attachment to this form are of no force or effect as against the Crown in right of Alberta.

Footnote ¹:

"Applicable Standard" means

a) for the purposes of upstream oil and gas sites,

i) *Alberta Environment Phase I Environmental Site Assessment Guideline for Upstream Oil and Gas Sites* (AENV 2001),

ii) *CSA Standard Z769, Phase II Environmental Site Assessment*, as amended, for any Phase II site assessment information used in preparation of this form on all upstream oil and gas sites not included in a) i);

b) for the purposes of all other sites, *CSA Standard Z768, Phase I Environmental Site Assessment*, as amended, for any Phase I site assessment information and with *CSA Standard Z769, Phase II Environmental Site Assessment*, as amended, for any Phase II site assessment information used in preparation of this form.

By signing below, I as the licensed operator or authorized representative, confirm the information provided herein is correct and complete, to the best of my knowledge and belief.

	<u>LAURIE BECK</u>	<u>Administrator</u>	<u>[Signature]</u>	<u>28/01/2010</u>
Name of operator	Name of authorized representative	Title of authorized representative (e.g. officer, director)	Signature	Date (dd-mon-yyyy)