STAFF REPORT TO COMMITTEE

MEETING TYPE & DATE:	Electoral Area Services Committee of March 18, 2026
FROM:	LAND USE SERVICES - Development Services
SUBJECT:	Application No. RZ24A04 (240 Okotoks Drive/PID: 030-309-581 and 296 Meadow Way/PID: 000-005-398)
FILE:	RZ24A04

REPORT SUMMARY

The purpose of this report is to present external agency and First Nation comments regarding the application to redesignate and rezone the subject properties from residential to industrial, for the existing auto wrecking and metal recycling use.

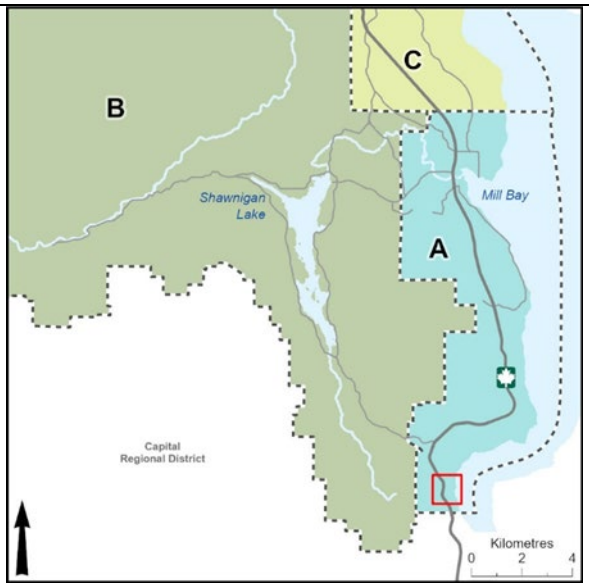
Staff have prepared draft amendment bylaws, as directed by the CVRD Board, and recommend the bylaws proceed to 1st and 2nd reading; that a public hearing be held; and that additional requirements be completed prior to consideration of adoption of the amendment bylaws.

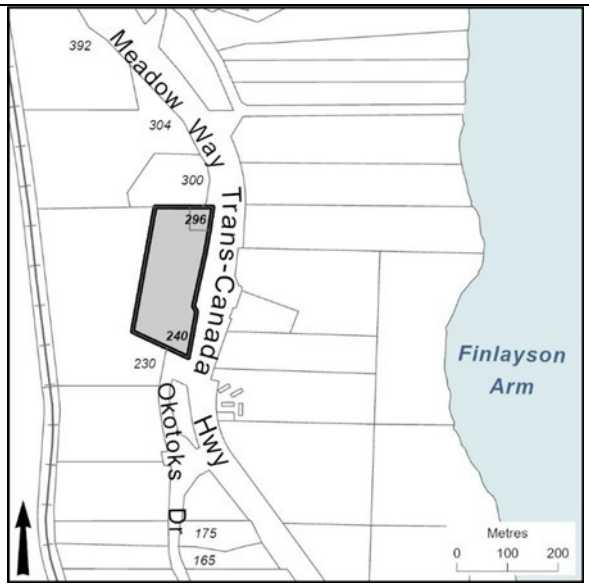
RECOMMENDED RESOLUTION

That it be recommended to the Board:

1. That the draft Amendment Bylaws No. 4642 (OCP) and 4643 (Zoning Bylaw) for Application No. RZ24A04 (240 Okotoks Drive, PID: 030-309-581 and 296 Meadow Way, PID: 000-005-398), be forwarded to the Board for consideration of 1st and 2nd reading.
2. That a public hearing be scheduled for Application No. RZ24A04 (240 Okotoks Drive, PID: 030-309-581 and 296 Meadow Way, PID: 000-005-398), prior to 3rd reading.
3. That prior to consideration of adoption of the amendment bylaws, a Section 219 covenant be registered in favour of the CVRD to secure the following:
    a. Installation and maintenance of onsite stormwater and wastewater infrastructure, as recommended in the Ecological Overview by Danaca Consulting, dated June 30, 2024;
    b. All vehicle dismantling, fluid draining and storage of automotive fluids shall occur only within designated surfaced areas in accordance with the Automotive Recyclers Environmental Association (AREA) Environmental Certification Program;
    c. Annual water quality testing and reporting of the existing onsite groundwater well(s);
    d. Installation of a continuous landscape screen with provisions to maintain the health and dimensions of the screening.
4. That prior to consideration of adoption of the amendment bylaws, a statutory right-of-way be registered to secure access for Malahat Fire Rescue to the onsite water storage tank.

LOCATION MAP





BACKGROUND

This application proposes to redesignate the subject properties from Small Lot Rural to Industrial, and rezone from RR-2 Rural Residential 2 to I-8 Auto Wrecking/Salvage Industrial 8, with site-specific provisions.

The application was last considered by the EASC on April 2, 2025. The Board passed the following resolutions at the April 9, 2025, CVRD Board meeting:

> *That Application No. RZ24A04 (240 Okotoks Drive, PID: 030-309-581 and 296 Meadow Way, PID: 000-005-398), be referred to the following external agencies and First Nations:*
>
> 1. *Electoral Area A – Mill Bay/Malahat Advisory Planning Commission;*
> 2. *BC Transit;*
> 3. *Cowichan Valley School District (SD 79);*
> 4. *Island Health;*
> 5. *Malahat Fire Rescue;*
> 6. *Ministry of Environment and Climate Change Strategy;*
> 7. *Ministry of Transportation and Transit;*
> 8. *Ministry of Water, Land and Resource Stewardship;*
> 9. *Royal Canadian Mounted Police (RCMP);*
> 10. *Cowichan Tribes;*
> 11. *Malahat Nation;*
> 12. *Pauquachin First Nation;*
> 13. *Te'mexw Treaty Association;*
> 14. *Tsartlip First Nation;*
> 15. *Tsawout First Nation;*
> 16. *Tseycum First Nation; and*
>
> *That Official Community Plan and Zoning Amendment Bylaws for Application No. RZ24A04 (240 Okotoks Drive, PID: 030-309-581 and 296 Meadow Way, PID: 000-005-398), be prepared and forwarded to the Board for consideration of 1st and 2nd reading.*

A summary of referral responses received to date are provided in Attachment A.

Amendment bylaws have been prepared and may be considered by the Board at a subsequent meeting.

POLICY AND REGULATORY CONSIDERATIONS

Official Community Plan (OCP) for the Electoral Areas Bylaw No. 4373:

This application was initially considered under the now-repealed OCP Bylaw No. 4270. With the adoption of OCP Bylaw No. 4373, this application is assessed solely under OCP Bylaw No. 4373.

The subject property is designated Small Lot Rural and is not within a Growth Containment Boundary (GCB). The proposed rezoning is not consistent with the OCP and requires an OCP amendment to include the subject property within a land use designation reflective of the proposal.

The **General Industrial** designation appears to be the most appropriate land use designation for the existing use. This designation enables industrial buildings and structures on large lots, typically along major highway corridors for access, distribution of materials and tourism-related visibility. Sites have access to community water or sewer systems, and are typically oriented around circulation, loading areas, surface parking and storage spaces. Accessory commercial uses are allowed. Building type and density is variable.

Relevant OCP policies include:

- *Policy CC.7 Minimize waste generation and encourage greater diversion of all waste materials, including organics, recyclables and construction and demolition waste, from solid waste streams, with the goal of achieving zero waste.*
- ***Policy CC.23** Promote and support water conservation measures with residents, business owners and industry (e.g. xeriscaping, water audits, grey water recycling).*
- ***Policy MI.22** Employ low-impact development practices for all residential, commercial, industrial and mixed employment land use designations. These practices include*
    - *protecting natural features that catch and retain water, such as wetlands, streams and forest corridors*
    - *disturbing land as little as possible when laying out streets and lots*
    - *reducing the size of building footprints*
    - *emphasizing cluster developments where appropriate*
    - *minimizing stormwater generation and runoff, for example by reducing contiguous paved areas or by using pervious materials for surfacing.*
- *Policy MI.38 Consider access to water, sewer and drainage infrastructure.*
- *Policy MI.41 Ensure development accommodates fire flows that can control fires in high-risk industrial settings.*
- *Policy DC.29 Support accessory retail and office uses in mixed employment and industrial lands.*
- *Policy RP.44 Provide access to a wide variety of strategic employment lands, including high tech, advanced manufacturing, green enterprise and filming studios*.

The subject properties are currently subject to Development Permit Areas (DPA) 1 Riparian Protection, DPA 4 Aquifer Protection and DPA 5 Wildfire Hazard.

As part of the OCP amendment, the properties will need to be included in the DPA 9 Form & Character (Industrial) - which is applicable to "*...buildings and sites used for assembling, storing, transporting, distributing, wholesaling, testing, repairing or salvaging goods, materials or things*"; and DPA 10 Water and Energy Conservation; Greenhouse Gas Emissions Reduction. Future development of the site will be subject of the DPAs, unless exempted in CVRD Bylaw No. 4485 – Development Permit Exemptions and Guidelines.

South Cowichan Zoning Bylaw No. 3520:

The subject properties are currently zoned RR-2 Rural Residential 2, which permits agriculture, horticulture and single detached dwelling as principal uses.

The applicant is proposing to rezone the subject properties to the I-8 Auto Wrecking/Salvage Industrial 8 zone, which permits the following principal uses: *Automobile salvage or wrecking yard, including trucks and other vehicles; Automobile workshop; Sales of used automotive parts and products;* and accessory uses: *Sales of new auto parts; Single detached dwelling.*

In addition, the applicant is requesting the following site-specific accessory uses:

- Vehicle storage;
- Vehicles repair and sales.

Siting regulations for the I-8 zone are found in Section 13.15 of Bylaw No. 3520.

Section 13.15.4 requires: *Any parcel in the I-8 Zone shall be comprehensively screened by continuous evergreen vegetation from any fronting public road.*

COMMISSION / AGENCY / DEPARTMENTAL CONSIDERATIONS

See Attachment A for the referral comments received to date, summarized as follows:

- **Malahat Nation** recommend sampling of soil, material and water be undertaken to determine if contaminated areas are on site; and encourage recommendations in the ecological report be followed.
- **Ministry of Water, Land and Resource Stewardship** state that a water licence application has been submitted; the diversion, use or storage of water cannot begin until the application has been reviewed and a decision to authorize use is made.

Advisory Planning Commission (APC):

The application was referred the Electoral Area A – Mill Bay/Malahat APC on May 8, 2025, where the APC passed the following recommendation to the Board:

> *It was moved and seconded that it be recommended that the APC support Rezoning/OCP Amendment Application File No. RZ24A02 subject to the following:*
> - *that the operation of the business comply with all regulatory agencies,*
> - *that the property be surrounded by a noise abating hedge,*
> - *that test well(s) be installed with regular testing, and*
> - *that a stormwater management plan be developed with proper treatment of possible contaminates.*

PLANNING ANALYSIS

The applicant is proposing to redesignate and rezone the subject properties to bring the existing auto wrecking and salvage use into compliance with zoning regulations. The existing residential use on the smaller parcel (296 Meadow Way) is proposed to continue. Approval of this application would formalize the existing use and enable future improvements and potential expansion of the

business in accordance with the permitted uses in the I-8 zone. Also noted, the applicant is requesting site-specific accessory uses – vehicle storage and vehicle sales.

As part of the OCP amendment, the properties will be included into DPAs for form and character (industrial development) and for energy and water conservation, and the reduction of greenhouse gas emissions. Inclusion into these DPAs will guide re-development of the property in relation to building materials, landscaping (screening and buffering), lighting, signage and rainwater management, along with other aspects of development.

The General Industrial designation is considered to be the most suitable land use designation for the proposal. This designation is typically on larger lots along major highway corridors, to allow better access and distribution of materials. The OCP states that this designation has access to community water or sewer systems; however, it is noted there are no community systems within the vicinity and servicing is provided on site. Much of the CVRD's industrial lands are not within serviced areas. The OCP supports protecting existing industrial lands and the expansion of industrial development to meet community employment and economic development needs.

Servicing:

There are no community water nor sewer systems within the vicinity of the subject properties.

Water is provided by two wells – one on each of the subject properties. It is understood that minimal water use is required for the operation, as the applicant has indicated water use is primarily for bathroom/office facilities. Domestic use of water on the smaller lot (296 Meadow Way) does not require a licence. The applicant has submitted a (Commercial Enterprise) water license application to the Ministry of Water, Land and Resource Stewardship (WLRS). At the time of this report, a referral from WLRS has not been received by the CVRD and no determination has been made regarding the water licence. Provincial WLRS staff have indicated that they have received the application and that the diversion, use or storage of water cannot occur until a decision to authorize the use has been made.

Both parcels are serviced by onsite sewerage system.

Environmental Considerations:

The Ecological Overview, by Danaca Consulting (Attachment C) notes that the current operation complies with the BC Automotive Recyclers Environmental Associated (AREA) Environmental Certification Program and has maintained a Gold Environmental Rating since 2003. The AREA program requires an Environmental Management Plan (EMP) to prevent site contamination and ensure the proper handling of vehicles and associated materials. Facilities under this program must meet provincial regulations under the *Environmental Management Act, Vehicle Dismantling and Recycling Industry Environmental Planning Regulation,* and are audited by the Association.

No major objections to the proposed rezoning were received from external referrals and internal CVRD divisions; however, given the nature of the past and present use there were concerns related to environmental impacts, and more specifically to surface and groundwater. Both Malahat Nation and the Area A APC supported water testing onsite and addressing stormwater management.

Rather than require a separate groundwater monitoring well, considered to be inappropriate for this location, the applicant has agreed to annual groundwater testing and reporting of the existing well(s), secured by a covenant.

In addition, the staff recommendation includes the requirement for stormwater and wastewater infrastructure, and designated surface areas for vehicle dismantling, fluid draining and storage of automotive fluids in accordance with AREA requirements, to be secured by a voluntary covenant.

Screening/Buffering Requirements:

In terms of screening, the site currently has limited vegetation around the perimeter of the property. A chain link fence runs along the property boundary adjacent to the TCH, resulting in partial visibility to passing traffic. At the main entrance, a corrugated metal fence has been installed, while the remaining perimeter features a combination of corrugated metal, wire, chain link and wooden fencing, and cedar shrubbery.

Pursuant to Section 13.15.4 of Bylaw No. 3520, all parcels located within the I-8 zone must be comprehensively screened from any fronting public road by continuous evergreen vegetation. The intention of landscape screens is to effectively screen potentially unsightly land uses from public view and to mitigate noise spillover impacts on adjacent parcels.

DPA 5 guidelines emphasize the importance of integrating FireSmart landscaping principles where appropriate, in order to enhance community resilience and reduce wildfire risk. To align with FireSmart principles and reduce fire risk, the draft zoning bylaw amendment could include a proposed revision to Section 13.15.4 to remove “evergreen” and simply require “continuous vegetation” for landscaping.

The staff recommendation includes a covenant requirement for a continuous landscape screen to provide both aesthetic and noise abatement. The covenant could also include a landscape maintenance provision to maintain the health and dimensions of the landscape screen.

The applicant has submitted a landscape plan by Danaca Consulting (Attachment D) that would incorporate a mix of FireSmart planting and fencing.

SRW for Fire Rescue Access to Water:

Malahat Fire Rescue is currently permitted to access the onsite water supply tanks for firefighting purposes; however, no formalized access agreement is in place. To ensure reliable, 24/7 access, it is recommended that a Statutory Right-of-Way (SRW) be secured between the property owner and Malahat Fire Rescue.

Existing Buildings and Structures:

CVRD Building Inspection staff have visited the site and provided an overview of existing buildings and structures on the subject property, specifically those related to the Malahat Auto Wreckers operation. In their overview, Building Inspection staff have identified existing buildings and structures that are reasonable to retain and upgrade, and that appear suitable for legalizations through building permits; and existing buildings and structures that appear appropriate to remove/demolish and replace.

Building Inspection staff support the rezoning application, noting the historic use of the property, and noting that a successful rezoning will enable full regulatory compliance while supporting improved building safety outcomes.

Recommendation:

The existing auto wrecking and salvage use has been in operation for over 50 years. The current application seeks to bring the longstanding use into compliance with bylaw regulations, enabling

the property owner to construct new or upgraded buildings and structures to support improvements and potential expansion of the operation.

There is an identified need for appropriately located industrial and employment lands with suitable access and servicing. Although the properties are not serviced by community water nor sewer system, servicing is managed onsite. Relevant OCP policies and objectives support waste-reduction and diversion initiatives and encourage a mix of commercial and industrial uses that contribute to local employment. The existing operation provides a regional service focused on vehicle recycling and waste diversion.

Referral comments highlighted concerns regarding environmental impacts, particularly potential surface and groundwater contamination associated with the existing use. Redevelopment of the site will require compliance with Development Permit Area guidelines, as well as zoning and building regulations. The applicant is amenable to registering a covenant to secure stormwater management measures; designated areas for vehicle dismantling, fluid drainage and storage; and annual water testing and reporting to monitor site conditions. In addition, a SRW is recommended to formalize Malahat Fire Rescue's access to the onsite water storage tank for firefighting purposes. Both the covenant and SRW are recommended to be secured prior to bylaw adoption.

Staff recommend proceeding with the draft bylaw amendments for 1st and 2nd reading, followed by a public hearing.

OPTIONS

Option 1: (recommended, proceed to bylaw readings)

That it be recommended to the Board:

1. That the draft Amendment Bylaws No. 4642 (OCP) and 4643 (Zoning Bylaw) for Application No. RZ24A04 (240 Okotoks Drive, PID: 030-309-581 and 296 Meadow Way, PID: 000-005-398), be forwarded to the Board for consideration of 1st and 2nd reading.
2. That a public hearing be scheduled for Application No. RZ24A04 (240 Okotoks Drive, PID: 030-309-581 and 296 Meadow Way, PID: 000-005-398), prior to 3rd reading.
3. That prior to consideration of adoption of the amendment bylaws, a Section 219 covenant be registered in favour of the CVRD to secure the following:
    a. Installation and maintenance of onsite stormwater and wastewater infrastructure, as recommended in the Ecological Overview by Danaca Consulting, dated June 30, 2024;
    b. All vehicle dismantling, fluid draining and storage of automotive fluids shall occur only within designated surfaced areas in accordance with the Automotive Recyclers Environmental Association (AREA) Environmental Certification Program;
    c. Annual water quality testing and reporting of the existing onsite groundwater well(s);
    d. Installation of a continuous landscape screen with provisions to maintain the health and dimensions of the screening.
4. That prior to consideration of adoption of the amendment bylaws, a statutory right-of-way be registered to secure access for Malahat Fire Rescue to the onsite water storage tank.

Option 2: (refer back to staff, request more information)

That it be recommended to the Board:

That Application No. RZ24A04 (240 Okotoks Drive, PID: 030-309-581 and 296 Meadow Way, PID: 000-005-398), be referred back to staff for further information.

Option 3: (deny the application)

That it be recommended to the Board that Application No. RZ24A04 (240 Okotoks Drive, PID: 030-309-581 and 296 Meadow Way, PID: 000-005-398), be denied.

GENERAL MANAGER COMMENTS

Insert comments

Submitted by: J. Dubyna, Planner III
Concurrence: M. Pressman, MPlan, RPP, MCIP, Manager, Development Services
Concurrence: A. Kjerulf, MCP, RPP, MCIP, GM Land Use Services

Reviewed for form and content and approved for submission to the Committee:

Resolution:	Financial Considerations:
☐ X Corporate Officer	☐ X Chief Financial Officer

ATTACHMENTS:
Attachment A – Referral Responses Summary
Attachment B – Site Plan
Attachment C – Ecological Overview, Danaca Consulting, June 30, 2024
Attachment D – Landscape Plan, Danaca Consulting, June 11, 2025

Referral Response Summary

Application No. RZ24A04

Organization: RCMP
Name/Title: Sgt. Colin Cook, Shawnigan Lake RCMP
Date of Response: April 22, 2025
Level of Support: No Comment

Comments: No concerns.

Organization: Malahat Fire Rescue
Name/Title: Tanya Patterson, Fire Chief
Date of Response: April 28, 2025
Level of Support: Support

Comments: No issues.

Organization: Ministry of Water, Land and Resource Stewardship
Name/Title: Cori Tryon, Senior Authorizations Specialist (West Coast Regional Water Authorizations)
Date of Response: May 2, 2025
Level of Support: Support with Conditions

Comments:
Please be advised that any activities that involve the use, storage or diversion of groundwater and water from a stream or work within a water body require authorization, unless exempted, under the *Water Sustainability Act* (WSA) from the Authorizations Branch of the Ministry of Water, Land and Resource Stewardship (WLRS). More information related to activities that require WSA authorization can be found here. Information related to the application process can be found at FrontCounter BC's website.

Based on my review, there are no water licences appurtenant to these parcels; however, a water licence application has been submitted. The diversion, use or storage of water cannot begin until the application has been reviewed and a decision is made to grant the authorization.

Organization: Electoral Area A Advisory Planning Commission (APC)
Name/Title: n/a
Date of Response: May 8, 2025
Level of Support: Support with Conditions

MOTION:
It was moved and seconded that it be recommended that the APC support Rezoning/OCP Amendment Application File No. RZ24A02 subject to the following:

- that the operation of the business comply with all regulatory agencies,
- that the property be surrounded by a noise abating hedge,
- that test well(s) be installed with regular testing, and
- that a stormwater management plan be developed with proper treatment of possible contaminates.

MOTION CARRIED

Organization: Malahat Nation
Name/Title: Carmen Pavlov, Referrals Coordinator
Date of Response: June 6, 2025
Level of Support: No Objection

Comments: *See attached letter dated June 6, 2025.*

Malahat Nation
110 Thunder Road | Mill Bay, BC | V0R 2P4
Tel: (250) 743-3231 | Fax: (250) 743-3251
info@malahatnation.com | www.malahatnation.com

June 6th, 2025

Malahat Referral No: R25056

Linda Powers
Records Administrative Assistant
Land Use Services Department
CVRD

Via email: linda.powers@cvrd.bc.ca

RE: Malahat Nation Response to Rezoning Application Referral for Malahat Auto Parts

Dear Linda,

Thank you for your consultation request dated April 11th, 2025, regarding the rezoning application for Malahat Auto Parts located in Malahat Nation's traditional territory.

At this time and with the information we have been provided, Malahat Nation does not object to the proposed rezoning. However, the Nation recommends that the site undertakes soil, material, and water sampling processes to determine if contaminated areas are on site. Malahat also encourages all recommendations laid out in the ecological report be followed, including (but not limited to):

- Stormwater and wastewater management plans and improvements.
- Wate management plans.
- Sediment control plans.
- Spill prevention plans for development and operation.

We continue to require disclosure on an ongoing basis regarding the rezoning of this property and any other related matters.

Thank you for your time and consideration.

Sincerely,

Carmen Pavlov
Referrals Coordinator
Malahat Nation

Rem. A
Plan VIP56326

Rem. 1
Plan 38729

Road on Plan EPP70070

Centerline of Wood Fence
68.74
139
60cm Maple
50cm Fir
59 Spike
26 Spike
Gate Post
45.81
Rem. Parcel A
(DD 186208I)
District Lot 105
55cm Cedar
2.56
Building
2.43
39.02
22 Spike
Crusher
Crusher Ramp
25 Spike
47.37
Centerline of Wire Fence
249.53
24 Spike
110cm Cedar
Right of Way 122733G
A
Plan EPP72442
2.97 ha
60 Spike
106.42
80cm Cedar
80cm Cedar
143 Spike
Centerline of Old Metal Fence
Dome Tent
Concrete Block Dome
Building
Seacan Dome
Approximate location of works related to BC Hydro SRW CA6714702
0.75m Concrete Block
0.75m Concrete Block
198 Spike
Toe of Boulder
Top of Slope
Toe of Slope
283 Feltmark
Gravel Access
Dome Tent
Building
Concrete Pad
Catch Basin
Edge of Pavement
Edge of Mountable Asphalt Curb
92.53
197 MAG
50.42
Trans-Canada Highway
Road on Plan EPP70072
Rem. District Lot 105
171 Spike
Barn
11.86
74.83
Centerline of Old Metal Fence
392
Gate Post
47.25
Road on Plan EPP89648
369 MAG
Rem. 9
Plan 2001

LEGEND

- Denotes Standard Iron Post Found
- Denotes Traverse Station Placed
- Denotes Coniferous Tree
- Denotes Deciduous Tree
- 234.00+ Denotes Typical Spot Elevation
- Denotes Utility Pole
- Denotes Utility Pole Anchor

N

SITE PLAN

MALAHAT AUTO WRECKING & RECYCLING

Lot A, District Lot 105,
Malahat District,
Plan EPP72442

ADDRESS : 720 Okotoks Road, Malahat	
PROJECT SURVEYOR : RPH	
DRAWN BY : BAR	DATE : MAR 13/24
OUR FILE : 34730	REVISION :

JEA J.E. ANDERSON & ASSOCIATES
SURVEYORS – ENGINEERS
4212 GLANFORD AVE, VICTORIA, B.C. V8Z 4B7
TEL: 250-727-2214 FAX: 250-727-3395
E-MAIL : info@jeanderson.com
VICTORIA-NANAIMO-PARKSVILLE-CAMPBELL RIVER

V:_Projects\34730\06\03\Microsurvey\34730.dwg

Distances and elevations are in metres

Elevations are geodetic based on GNSS observations

Elevations are at grade unless noted otherwise

Dimensions from property line are to siding

This sketch does not constitute a redefinition of the legal boundaries hereon described and is not to be used in any matter which would assume same.

J.E. Anderson & Associates accepts no responsibility or liability for any damages that may be suffered by a third party as a result of any decision made, or actions taken based on this document.

This plan is intended for use as a topographic site plan. It is based on Land Title Office records and ties to surrounding survey evidence and does not represent a boundary survey. Critical lot dimensions, lot areas and building setbacks should be confirmed by a legal cadastral survey.

Subject to charges, legal notations, and interests shown on: Title No. CB105968 (P.I.D. 030-309-581)

0 4 8 16 24 32 40

The intended plot size of this plan is 560mm in width by 864mm in height (D size) when plotted at a scale of 1:400.

Rem. 1
Plan 38729

Road on Plan EPP70070

Trans-Canada Highway

Road on Plan EPP70071

A
Plan EPP72442

Rem. Parcel A
(DD 186208I)
District Lot 105
0.194 ha

Asphalt Driveway

Gravel Driveway

Dwelling

Garage

Well Shed

Top of Bank

Approximate Disposal Field

Gate Post

55cm Cedar

139

440

394 Spike

395 Spike

396 Felt Mark

415

24.10

21.74

16.53

16.55

8.22

4.79

1.19

1.78

1.16

43.80

5.27

19.24

45.81

2.56

11.75

2.68

9.42

12.23

7.96

1.62

11.75

2.43

39.02

2.50

15.46

17.71

7.40

224.17 (Wire)

234.07 (Wire)

230.82 (Slab)

235.55 (Wire)

223.74 (Wire)

LEGEND

- ● --- Denotes Standard Iron Post Found
- ▲ --- Denotes Traverse Station Placed
- --- Denotes Coniferous Tree
- 230.50 + --- Denotes Typical Spot Elevation
- —OH—OH— --- Denotes Overhead Powerlines

SITE PLAN

MALAHAT AUTO WRECKING & RECYCLING

Parcel A (DD 186208-1), District Lot 105, Malahat District, Except Part in Plans EPP29107 and EPP70071

ADDRESS : 296 Meadow Way, Malahat	
PROJECT SURVEYOR : RPH	
DRAWN BY : BAR	DATE : JULY 05/24
OUR FILE : 34730	REVISION :

J.E. ANDERSON & ASSOCIATES
SURVEYORS – ENGINEERS
4212 GLANFORD AVE, VICTORIA, B.C. V8Z 4B7
TEL: 250-727-2214 FAX: 250-727-3395
E-MAIL : info@jeanderson.com
VICTORIA–NANAIMO–PARKSVILLE–CAMPBELL RIVER

0 1.5 3 6 9 12 15

The intended plot size of this plan is 560mm in width by 432mm in height (C size) when plotted at a scale of 1:150.

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Subject to charges, legal notations, and interests shown on: Title No. CA9999352 (P.I.D. 030-309-581)

Distances and elevations are in metres

Elevations are geodetic based on GNSS observations

Elevations are at grade unless noted otherwise

Dimensions from property line are to siding

V:_Projects\34730\06\03\Microsurvey\34730.dwg (Site Plan 2)

DANACA
CONSULTING

Ecological Overview

Subject Property: 240 Okotoks Road, Malahat BC

Report Date: June 30, 2024

Client Name: Jeff Montgomery
c/o Malahat Auto Wrecking and Metal Recycling
240 Okotoks Road
Malahat BC, V0R 2L0

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Contents

Disclaimer

This plan has been prepared with the best information available at the time of writing, including a review of available information from the local government and Province of British Columbia. This plan has been developed to provide the owner with information to support the rezoning process within development permit areas of the Cowichan Valley Regional District. It is the owner's responsibility to complete the due diligence for this project.

This plan is for the use of the property owner and for the Cowichan Valley Regional District. Any use of this plan by other parties is done so exclusively at their risk. The author assumes no responsibility for: [i] iterations of this plan that are unsigned by the author, [ii] any changes made to this document other than those made or endorsed by the author.

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Background and Scope of Work

Malahat Auto Wrecking and Metal Recycling (the Client) is the owner of the property located at 240 Okotoks Drive, Cobble Hill, BC (hereafter referred to as the Client) which is within the Cowichan Valley Regional District (CVRD) (Figure 1 and 2). The Subject Property is legally described as LOT A DISTRICT LOT 105 MALAHAT DISTRICT PLAN EPP72442 PID: 000-033-057. The Subject Property is currently zoned RR-2 Rural Residential 2 Zone and is proposing to rezone to the I-8 Auto Wrecking/Salvage Industrial 8 Zone to come into compliance with the existing auto wrecking and salvage use. The 2.97-hectare property is completely developed for its existing auto wrecking and salvage use.

As part of the due diligence process, the Client retained Danaca Consulting (Danaca) to conduct an overview Ecological Assessment (EA) because the intention is to rezone the property to I-8 Auto Wrecking/Salvage Industrial 8 Zone.

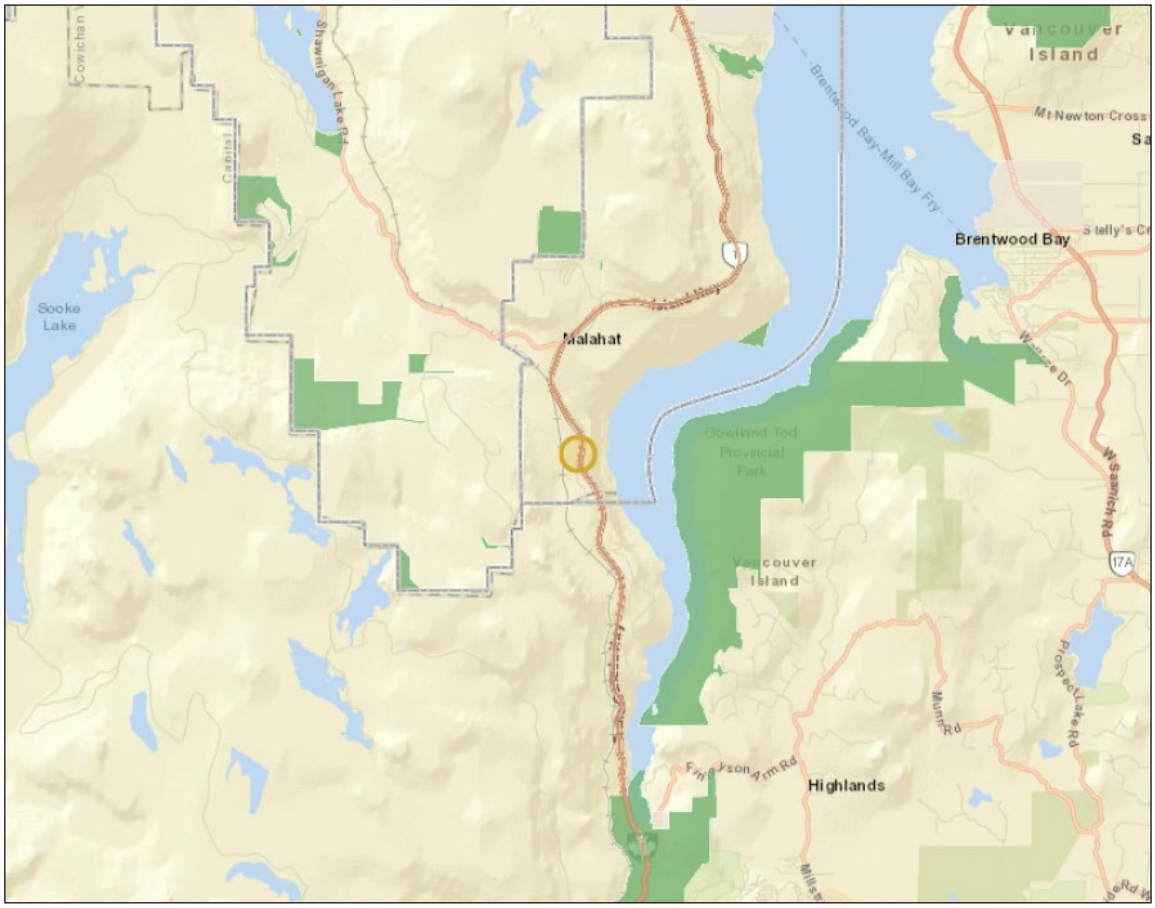


Figure 1: Regional context of 240 Okotoks Drive, Cobble Hill, BC.

Figure 2: Subject Property at 240 Okotoks Drive, Cobble Hill, BC.

Scope of Work

The scope of work for the Environmental Assessment was:

- Background research and review.
- Site assessment including an evaluation of natural features, ground truthing background review data, and evaluating sensitive habitat components. Site analysis of existing environmental protection measures in place, including any stormwater provisions.
- Reporting, which compiles the findings of the background review and site assessment findings with recommendations for development including implementation of best management practices and mitigation measures, recommendations for future studies, if needed, regarding future rezoning. Please note that this scope of work does include any submissions related to contaminated sites and involved a visual inspection only. No materials sampling, soil sampling, water sampling or subsurface examination were conducted.

The proposed rezoning occurs in the CVRD Area A Mill Bay/Malahat Local Area Plan and Cowichan Valley Regional District Schedule C Development Permit Areas apply. Specifically, the following Development Permit areas address the protection of the natural environment:

- DPA 1 Riparian Area Protection
- DPA 2 Environmentally Sensitive Areas Protection - Mature Forest (Figure 3)
- DPA 4 Aquifer Protection

DPA 12 Industrial Development for Form and Character will apply to this property should the proposed rezoning be successful. DPA 12 is not addressed in this report.

Figure 3: Mature Forest Sensitive Ecosystem polygon adjacent to 240 Okotoks Drive, Cobble Hill, BC.

Proposed Development

The owners want to rezone their property from the existing RR-2 Rural Residential 2 Zone to the I-8 Auto Wrecking/Salvage Industrial 8 Zone to come into compliance with the existing auto wrecking and salvage use.

This 2.97-hectare parcel has existing auto wrecking and salvage use. The existing access is from Okotoks Road via the Trans-Canada Highway. The property abuts C-3 Rural Service Commercial 3 Zone and C-4 Rural Tourist Commercial 4 Zone.

The proposed rezoning is requested to allow alignment between the zone and the existing use. Currently most of the labour associated with wrecking and recycling activities occurs outside or under

temporary cover in all weather conditions. The rezoning will permit the construction of new buildings to accommodate the operational needs of the business. An Industrial Development Permit will be required before a building permit is issued. New permanent structures will improve environmental protection and management of contaminants of concern (COCs), as well as improve onsite conditions for the 12 employees and employee recruitment and retention. The ability to construct new buildings will enable the facility to both improve prevention of COCs from migrating to surface and groundwater and expand its recycling opportunities in the emerging EV recycling market and thus create additional employment opportunities. The region will be provided a better service as well as the environmental benefits of COC containment, recycling and reusing auto parts.

Malahat Auto Recycling is committed to being a "green" auto recycler. The construction of new structures and hard surfacing will increase environmental benefits to ensure that dry storage is available.

Desktop Assessment

Sensitive and Rare Ecosystems

The BC CDC identifies a total of 67 animal species that are red or blue-listed and are known to occur within the CVRD. Thirty-five of these species are identified as endangered, special concern, or threatened by Committee on the Status of Wildlife in Canada (COSEWIC) and 31 species are identified as at risk through Species at Risk Act (SARA)[1]. The current environmental data and information available for the area was reviewed prior to conducting the field assessment for the site. In part, this included a review of the Official Community Plan for Electoral Areas Bylaw No. 4270 Area A Mill Bay/Malahat Local Area, aerial photography (CVRD Regional Map), the Sensitive Ecosystem Inventory (SEI) for the Area A Mill Bay/Malahat, the BC Conservation Data Centre (CDC) records for rare species occurrences, the BC Fisheries Inventory Data Queries (FIDQ) and the Wildlife Tree Stewardship Program (WiTS) occurrences.

The Biogeoclimatic Ecosystem Classification mapping indicates that the Subject Property is within the Coastal Douglas-fir moist mild subzone (CDFmm). This zone is restricted to low elevations along southeast Vancouver Island from Bowser to Victoria, the Gulf Islands south of Cortes Island, and a narrow strip along the Sunshine Coast near Halfmoon Bay. Elevational limits range from sea level to approximately 150 m. The CDFmm lies in the rainshadow of the Vancouver Island and Olympic mountains resulting in warm, dry summers and mild, wet winters. Growing seasons are very long and feature pronounced water deficits on zonal and drier sites. The CDFmm represents the mildest climate in Canada. The understorey is dominated by salal (*Gaultheria shallon*), dull Oregon grape (*Mahonia nervosa*), ocean-spray (*Holodiscus discolor*), and Oregon beaked moss (*Kindbergia oregana*). Less prominent species include baldhip rose (*Rosa gymnocarpa*), snowberry (*Symphoricarpos albus*), western trumpet honeysuckle (*Lonicera ciliosa*), vanilla leaf (*Achlys triphylla*), and rough goose neck moss (*Rhytidiadelphus triquetrus*). Drier sites are characterized by the presence of Garry oak and arbutus, as well as numerous members of the lily family.

[1] Cowichan Valley Regional District. 2010. State of the Environment Report.

The property is within the Malahat Coastal Benchland and is bordered by Colpman Creek 90 m to the north and Irving Creek approximately 175 m to the south. Their watershed codes are 920-219600 and 920-219400, respectively, and both watercourses drain into Finlayson Arm. While both watercourses are registered in the FIDQ, neither watercourse has any fisheries observations or other associated data listed in the database. Camsusa Creek (920-215500), immediately to the south, has rainbow trout fry/parr recorded in 2017; however, it lacks the steep slopes to the marine interface associated with Colpman and Irving. These steep slopes (>44%) would likely prevent anadromous species (salmon and trout) from migrating upstream in either of these creeks. If there are pools or year-round flows in these creeks, they may have resident trout or other fish species.

According to the Sensitive Ecosystem Inventory (SEI) for the Mill Bay/Malahat Local Area, the subject site abuts and or has marginal overlap by the Mature Forest (80-250 years old) SEI polygon[2].

Rare Element Occurrences

The Ministry of Environment and Climate Change Strategy's (ENV) Conservation Data Centre (CDC) maintains a database of potentially occurring red and blue-listed animal and plant species in British Columbia. This database was used to determine whether any rare plants, animals or ecosystems are documented as occurring on or near the Subject Property. No element occurrences associated with provincially listed species were shown to overlap with the Subject Property based on the background research conducted.

Wildlife Tree Stewardship Atlas

Wildlife Tree Stewardship Atlas (WiTS) was accessed to determine the known distribution of wildlife trees (e.g. raptor nests) on, or adjacent to, the Subject Property. The nearest documented WITS waypoints to the Subject Property are bald eagle (*Haliaeetus leucocephalus*) nests. BAEA-102-057 and BAEA-102-059 are approximately 500 m southeast and downslope of the property at the edge of Finlayson Arm.

The proposed rezoning will bring the existing use into compliance with the zone and thus no new activities or uses are proposed. While the bald eagle nests are within the recommended 1 km blasting buffers that are implemented as part of the provincial Best Management Practices (BMPs), if more intrusive industrial activities (i.e. blasting) were required as part of potential future development, the noise levels from potential future industrial activities would likely have no impact on the bald eagle nesting potential. This is due to the combination of the distance, slope, occurrence of residential activities, and the Trans Canada Highway 1 background noise between the Subject Property and the nests.

Contaminated Sites Registry

This portion of the desktop review was conducted after the site visit, based on information provided by the owner. A small portion of the Subject Property in the northeast was formerly Hogg's VW Repair & Parts. The Ministry of Transportation and Infrastructure (MOTI) appropriated a strip of Hogg's and Malahat Auto Wrecking and Metal Recycling adjacent to the highway for expansion (approx. 2017-2019)

[2] Madrone Environmental Services Ltd. 2018. Environmentally Sensitive Areas (ESAs) Mapping in the Cowichan Region – Phase II. 31 pp.

and conducted contaminated site reviews. The Site Registry was queried in May 2024 for details (see Appendix 1). The summaries provided indicate the following for both properties: "DETERMINATION OF CONTAMINATED SITE REQUESTED" and "PRELIMINARY DETERMINATION OF CONTAMINATED SITE ISSUED - SITE NOT CONTAMINATED". These summaries do not provide detail as to whether Stage 1 or 2 assessments were conducted and do not indicate whether the assessments included the whole of the properties in question or just the portion appropriated by the MOTI.

Site Assessment

A site visit was conducted on March 21, 2024 to evaluate:

- Natural features,
- Ground truthing background review data,
- Sensitive habitat components including the mature forest sensitive ecosystem and riparian features, and
- Site analysis of existing environmental protection measures in place, including any stormwater provisions.

Documented Best Management Practices for Waste Management

Laura Hooper, MSc, PAg, and Sara Stallard, BSc, AScT, met onsite with the business and property owner, Jeff Montgomery. Mr. Montgomery's family has owned the property since 1978 and has worked on the site since 1988 when it was operated by his father, Neil Montgomery. According to Mr. Montgomery there have been no fill activities on the site to his knowledge and no Reportable Spills, as per the BC *Environmental Management Act* (*EMA*)[3].

Malahat Auto Wrecking & Scrap Metal Recycling has been operated to comply with the BC Automotive Recyclers' Environmental Association (AREA) Environmental Certification Program (https://area-bc.ca/). According to their website, the purpose of AREA is to develop and implement an Environmental Certification Program for the automotive recycling industry by:

- Developing and administering the environmental certification process to ensure the environmentally safe removal, transportation, reuse or recycling of hazardous materials.
- Overseeing the communication of information and the on-going training of the industry.
- Working in partnership with the Ministry of Environment, Environment Canada, the Insurance Corporation of BC and other partners to develop, implement and administer the environmental management system for automotive recyclers in an effective and efficient manner.

Under this program, the business is inspected every three years, and its environmental compliance is rated as Bronze, Silver, or Gold. Under the name Malahat Auto Parts Ltd., the Client has achieved a Gold Environmental Rating by inspection since 2003. Best management practices (BMP's) to achieve this rating include the documentation to track the fluids/recyclable wastes through manifests, from the arrival of the car at the site to delivery of wastes at recycling destinations. Each vehicle received is documented and has a manifest that is kept for inspection. All shipping is done via authorized

[3] Reportable Spill types and volumes under the *EMA* are defined in Appendix 2.

transporters to dedicated facilities. Manifests are kept accessible for inspection by AREA personnel every 3 years, with spot visits by BC Ministry of Environment and Climate Change.

As part of the site visit, the owner produced complete environmental records, including inspection reports, and manifests. An Environmental Management Plan dated April 28, 2023 for the operation was noted on-site.

- All fluids and batteries are drained/removed in the dedicated Dismantling Bay facility and stored under cover (unless otherwise noted, e.g. tires).
- Engine & transmission oil is stored in drums and shipped to recycler with manifests.
- Radiator coolant/antifreeze is stored in drums and shipped to recycler (not regulated).
- Gas & diesel are stored in appropriate tanks and re-used by staff.
- Air conditioning (AC) refrigerant is removed with an AC recovery unit and stored in gas cylinders, shipped to local automotive repair facilities with a bottle exchange (documented with each car removal).
- Windshield washer fluid is re-packaged and offered free to staff and clients.
- Automotive batteries are stored on pallets and wrapped for shipping to the recycler with manifests as per Transport Canada requirements.
- 9V batteries and power tool rechargeable batteries are stored separately and are not regulated.
- Household battery recycling is located at main office.
- Tires are racked for resale or stored in a combination of covered and uncovered in piles using guidelines from the Tire Stewardship of BC (https://tsbc.ca/). This is common to have approximately 200-400 tires on site.
- Tire weights are stored in lidded plastic buckets prior to shipping.
- Brakes drums and rotors are stored in bins (asbestos pads stay with the vehicles).
- Alternators, wires, radiators are stored in dedicated bins.
- EV batteries are stored in and near the Barn/Old Office & Repair Bay (no fluids, therefore no leaching).
- Mercury containing pellets from convenience light switches and ABS sensors are stored in lidded plastic buckets prior to shipping.

Site Description

The Subject Property is relatively flat with a gentle slope toward the east, ending at an abrupt slope to the Trans-Canada Highway. It has been completely cleared and has been exposed to anthropogenic disturbances with exposed soils/gravels. The property is completely fenced, and access is controlled by a gate. The southern-most portion of the property has an asphalt access driveway and a gravel parking area that provides access to a one-story office building. The majority of the property is well-organized storage of scrap vehicles in rows with a gravel access road bisecting the property north to south. Movable storage bins, both covered and un-covered, are found throughout the site, but mostly adjacent to buildings and the southern end of the access road. Various sized piles of tires are also located throughout the site. There are small areas of surface staining (general oils/hydrocarbons) in the gravels around the shops and some surface areas contain waste metal shavings and small car parts (springs, plastics, etc.) (Photos 1-13).

Appendix 3 is a site layout of the existing facilities. The facilities and sorting areas are described below:

- The Main Office building has a repair bay and dome tent attached to the rear of the building which is used for storage and cleaning parts (including engines) for resale. The floor of the tented area is concrete with a floor drain leading to an oil separator and then to a rock pit which drains to ground (Photos 5, 14-16).
    - Drainage from the roof leaders is conducted east via a large black PVC pipe to the Trans-Canada Highway drainage ditch (flows south to settling pond and then to Irving Creek) (Photo 17).
    - Perimeter drainage intercepting surface flow is conducted south to the driveway ditch leading to Okotoks Road and thence to the Trans-Canada Highway ditch. The slotted manhole cover in the gravel parking area is part of this drainage structure (Photos 18 and 19).
- A mostly abandoned two-storey barn in the southwest corner of the property is the former office and repair bay. It is currently used to store hybrid batteries and electric batteries, but stores several old containers of chemicals and fluids (unknown contents) (Photo 20).
- The Dismantling and Storage Area is part of three adjacent structures in the south-central portion of the property. These structures provide dry storage for controlled materials (i.e. shipping containers providing structure to the container dome provide protected storage for salvaged fluids and car batteries), cover for employees when removing fluids, and a hoist and ramp to facilitate salvage.
    - The Seacan Dome is the main dismantling bay and is composed of a concrete floor and side walls of shipping containers with a Quonset hut-like high roof structure, open at both ends (Photo 21). The shipping containers are used for materials/recycling storage and dismantling work areas. Fluids are removed here, including a specialized machine for removal and compression of air conditioning (AC) refrigerant (Photo 22).
        - The concrete floor has a floor drain leading to a rock pit that drains to ground.
    - The Concrete Block Dome serves as a dismantling bay and has attached structures including a wooden building with a concrete floor attached to a metal domed roof with concrete walls and a small oil shed with concrete floors (Photos 23 and 24). The Oil Shed houses secure tanks for diesel, acetone, gasoline, waste oil, antifreeze and AC refrigerant (Photos 25 and 26).
        - There is a floor drain connected to a rock pit that drains to ground.
    - Additional parts storage is in a large Dome Tent at the north end of this group of structures. It has a gravel floor and contains metal shelving along the interior walls for parts storage (engines, transmissions, etc.) and large movable bins for batteries and other salvaged items (Photos 27 and 28).
- A Weigh Scale is located at the south end of the access road, east of the Dismantling and Storage structures (Photo 29).
- The northeast corner has a concrete block Crusher Ramp and steel dumping area that was formerly part of Hogg's VW Repair and Parts (see previous in Contaminated Sites Registry). This area has a General Scrap Metal (non-auto) deposition area at the base of the ramp that is uncovered and contains material dumped from roll off bins and peddler traffic (uncommon) and also contains mixed non-metal trash to be sorted (Photo 30). A large steel crusher/baler has a

crusher that compacts and bales steel for recycling (Photo 31). A stockpile of propane tanks and tires is located adjacent to an excavator (Photo 32).

- The sloping ground in this area pools surface water to flow through the empty propane tank pile and offsite to the east toward the ditch adjacent to the Trans-Canada Highway (Photo 33).

In addition to the drains (associated with building structures) and surface flow (crusher/baler area) listed above, the only other surface flow consists of stormwater runoff west of the Main Office building. This shallow depression collects runoff from near the Weigh Scale and flows south to empty into the west ditch at the driveway entrance. A scrap vehicle and various scrap wastes are located within the flow depression (Photo 34).

The property is secured by fencing: wood panel fence to the west to screen from the residential area, and page wire or chain link around the remaining perimeter. A chain link double gate restricts access to the main entrance of the property (Photos 2-4).

Waste Management

240 Okotoks Road was purchased by the current owner's family in 1978 and has been actively managed by the current owner since 2010. Given this long history on the land, we are confident in the depth of the knowledge of the site. The site has no history of soil deposits/filling and no history of reportable spills.

We observed an Environmental Management Plan was observed and the Environmental Policy and Emergency Spill Response Plans were posted in the main office of the facility. In addition, we observed the End of Life Vehicle Management Program document and documentation of an Environmental Audit that was conducted of the Environmental Review Protocols by the BC Automotive Recyclers' Environmental Association.

As a generator of hazardous waste, Malahat Auto Wrecking and Metal Recycling is responsible to ensure they are not storing more regulated waste than is permitted under their Generator Registration Number (Table 1). They are responsible for properly and fully characterizing the hazardous waste to prepare it for shipment and disposal. When shipping the materials, they are responsible for determining the proper shipment methods, completing manifests where required, and ensuring the transporter holds a valid transport licence. They are also required to ensure that the hazardous waste is transported to a waste management facility that is authorized to receive the materials under the Hazardous Waste Regulation. We observed shipment manifests, complete with licences to transport hazardous waste, in the detailed documentation on site. Manifests are filed for inspection by Automotive Recyclers' Environmental Association (AREA) every 3 years, and spot visits by BC Ministry of Environment. Records retained on site date back to 2021.

Table 1 Limits of hazardous waste storage for batteries and liquid waste oil for Malahat Auto Wrecking and Metal Recycling.

Materials	Regulatory Agency	Quantity Produced (30 days)	Quantity Stored	Storage Method
Batteries	Ministry of Environment and Climate Change Strategy	6800 kg	13600 kg	Stored on pallets and wrapped for shipping to recycler with manifest as per transport Canada requirements. Dry Storage.
Liquid waste oil Used Oil	Ministry of Environment and Climate Change Strategy	1000 L	2000 L	Drums

We observed the manifests for the shipments of non-regulated waste to waste disposal/recycling facilities when that waste was shipped with regulated waste. The destinations of all non-regulated waste generated in day-to-day operations are summarized in Table 2.

Table 2 Non-regulated materials generated at Malahat Auto Wrecking and Metal Recycling.

Material	Storage Method	End-use or Destination
Antifreeze Radiator Coolant	Drums	Shipped to recyclers with hazardous waste
Gasoline	Drums	Repurposed on-site or shipped to recyclers with hazardous waste
Refrigerant	Bottles	Sold to autobody shops in southern Vancouver Island to recharge A/C units with a bottle exchange system
Scrap Metal and Automobiles	Open air storage, neat rows of vehicles	Crushed and bailed for recycling or retained for spare parts
Tires	Racked for resale or stored in combination of covered and uncovered in piles	Processed via Tire Stewardship BC
Windshield Washer Fluid	Plastic containers	Re-packaged and offered free to staff and clients
Brake Drums and Rotors	Stored in bins Asbestos pads stay with the vehicles	Scrap metal recycling
Alternators, Wires, and Radiators	Stored in bins	Scrap metal recycling
Propane Tanks	Open air storage	Scrap metal recycling

We observed the washing of engines and parts washing using industrial cleaners and degreasers, combined with hot-water pressure washing. Solutions used include Morado by ZEP (extra-heavy-duty industrial cleaner and degreaser, for example) and Duca-sol by Ducan. The wastewater from this process enters an oil separator tank and then rock-pit for ground disposal. The safety data sheets are in Appendix 4. Floor drains that lead to rock-pit disposal are located in two of the other roofed structures (Seacan Dome and Concrete Block Dome). All pits have grit separators that require cleaning on a regular basis.

Stormwater

Directed stormwater runoff appears to be limited to the flows leading into the ditches on either side of the driveway at the entrance that flow to Okotoks Road ditches (gravel parking area with the slotted manhole cover and shallow depression west of the Main Office) (Photos 18 and 34) and the depression at the crusher/baler area which flows east toward the Trans-Canada Highway roadside ditch (Photo 33). No surface staining was observed in the depression west of the office and minimal surface staining of soils was observed in the drainage path south of the crusher/baler below the empty propane tank pile.

Wildlife

Known Occurrences

The following wildlife was observed during the site review: eastern cottontail (*Sylvilagus floridanus*), European wall lizard (*Podarcis muralis)*, and house wren (*Troglodytes aedon*).

Potential Occurrences

Nuszdorfer et al.[4] lists wildlife species as having the potential to inhabit this biogeoclimatic zone.

Mammals: Black-tailed Deer are the most abundant large ungulate, although Roosevelt Elk were present before the conversion of the coastal plain into agricultural fields and small communities. Both Black Bear and Cougar are common throughout but are usually eliminated when they enter rural and urban areas. Their numbers are therefore not as high as they could be. Recently, the Gray Wolf has invaded Vancouver Island, too; and while they are more abundant in the Coastal Western Hemlock zone to the north and west, they occasionally enter the CDF in search of deer. Marten, Raccoon, California Myotis, Red Squirrel, and Deer Mouse were also listed as common in mixed coniferous and deciduous forests.

Birds: Mature and old-growth coniferous forests are important for birds that eat conifer seeds, or wood-boring and bark insects. Species that breed in these forest habitats are: Pileated Woodpecker, Yellow-bellied Sapsucker, Hairy Woodpecker, Downy Woodpecker, Steller's Jay, Raven, Chestnut-backed Chickadee, Brown Creeper, Winter Wren, and Varied Thrush. Some species are highly specialized such as the Western Flycatcher, which only inhabits thickets in depressions, ravines, or along waterways. Deciduous thickets and shrubbery offer a variety of flying insects and seeds for breeding populations of House Wren, Hutton's Vireo, Black-headed Grosbeak, and White-crowned Sparrow. They also list the Red-tailed Hawk, Northern Saw-whet Owl, Blue Grouse, Ruffed Grouse, Common Merganser, Steller's

[4] Nuszdorfer, F.C., Klinka, K., & Demarchi D.A. (1991). Chapter 5: Coastal Douglas-fir Zone in D. Meidinger & J. Pojar (Eds.), Ecosystems of British Columbia (pp. 81-95). BC Ministry of Forests. https://www.for.gov.bc.ca/hfd/pubs/docs/srs/srs06.pdf

Jay, Hairy Woodpecker, House Wren, Hutton's Vireo, Black-headed Grosbeak, White-crowned Sparrow, and Townsend's Warbler as common in mixed coniferous and deciduous forests.

Amphibians and Reptiles: Western Toad, Pacific Treefrog, Western Red-backed Salamander, Ensatina Salamander, and the Northwestern Salamander.

Sensitive Ecosystems

Mature Forest Features Description

Mature forests are generally >80 years old and < 250 years old. Mature forests are not as structurally complex as old forests but can function as essential habitat areas for many wildlife species and as primary connections between ecosystems in a highly fragmented landscape. There are two main subclasses of mature forests: conifer dominated (> 75% coniferous species) and mixed conifer and deciduous (<75% coniferous and < 75% broadleaf composition). The Subject Property is adjacent to a conifer dominated mature forest which is protected from encroachment by fencing at the property line, and a natural sloping of the property away from the western property line. There is a gravel laneway providing access to the stored hulks. This laneway provides passive protection to the root zones of the mature forest.

The Subject Property has is nearly completely cleared except for seven large trees: five large cedar trees (55 cm – 110 cm diameter), one large maple (60 cm) and one large fir tree (50 cm). There is a band of trees on the southwestern edge of the property immediately adjacent to the mature forest polygon. This is a remnant of the mature forest polygon and contains two large cedar trees (80 cm diameter) and small arbutus (*Arbutus menziesii*), Douglas-fir (*Pseudotsuga menziesii*), Red alder (*Albus rubra*) and Bigleaf maple (*Acer macrophyllum*). The understory is comprised of salal (*Gaultheria shallon*), dull Oregon grape (*Mahonia nervosa*), oceanspray (*Holodiscus discolor*), June plum (*Oemelaria cerasiformis*), and cherry (*Prunus* sp.) and grasses (Photos 7 and 35).

There is a small amount of Scotch Broom (*Cytisus scoparius*) and Himalayan blackberry (*Rubus armeniacus*), both invasive species, in the disturbed areas along the perimeter of the property. It is being proactively managed by the property owner (Photo 36).

Riparian Features Description

All properties within the CVRD are subject to the Riparian Protection Development Permit Area. The Subject Property is bounded by two creeks, one to the north and one to the south. Colpman Creek is approximately 90 m to the north side of 240 Okotoks Road and Irving Creek is 175 m to the south. The subject site drains toward Irving Creek via roadside ditches, culverts and a settling pond south of Okotoks Road. There is no fish access to the site. Fish access to the roadside ditches adjacent to the site is highly unlikely. The Subject Property is not within the 30 m Riparian Assessment Area (RAA) of either Colpman or Irving Creek, however, given the topography and alignment of the highway the adjacent ditches would have a 2-m SPEA under the Riparian Area Protection Regulation (RAPR) for Irving Creek.

Recommendations

Sensitive Ecosystem Development Permit Area Boundary Adjustment

The mapped Mature Forest sensitive ecosystem polygon adjacent to the property is shown in Figure 3. There were no sensitive ecosystems observed on the property. The band of vegetation on the southwestern property line is not comprised of trees of a sufficient age/size and number or shrub understory to warrant classification as a mature forest ecosystem.

<u>Recommendation 1:</u> We recommend that the fencing remain in place to prevent encroachment into the mature forest and to continue to observe the setback for hulk storage using the laneway buffer. Tree protection measures must be developed by an ISA certified arborist to protect trees being retained during any future development.

Stormwater and Wastewater Management

Swales

The two observed depressions conducting surface water pooling/flow (crusher/baler area and west of the Main Office) contained metal/other scrap/waste materials. All scrap/waste materials should be stored outside of depressions conveying stormwater to eliminate the potential for the transport of contaminants (metals, hydrocarbons, VOCs, etc.) into local waters or aquifers.

- No soil or water samples were taken as part of this assessment. Sampling and analysis of soil (and stormwater if possible) in these two locations is recommended to document the composition of offsite runoff.
- Green infrastructure, such as small vegetated surface swales, could intercept sediment-laden water or potential contaminants from the site.

Rock Pits

The discharge conveyed by the floor drains in the dismantling areas of buildings runs to rock pits and is dissipated below ground. Part 5 of AREA's 2023 Code of Practice (COP) recommends that dismantling areas have:

- Dismantling pads designed in such a way to retain all the fluids that may be spilled or released during draining (approximately 25 liters).
- Dismantling pads must be made of impervious materials and in an enclosed building or contained under a roof of sufficient size to prevent snow or rain fell from reaching the pad.

The space available to the operation to provide dry storage, hazardous waste storage, and dismantling areas is limited and restricted by the current zoning of the Subject Property. Currently, all dry storage areas, hazardous waste storage areas, and dismantling areas observed on the Subject Property were on concrete pads therefore is compliant with the AREA's COP. We recommend that the facility keep records of the annual inspections and maintenance (sludge removal) of the oil/water separators and monitor the discharge to insure they meet the water quality levels of the AREA's COP:

- Total Suspended Solids (TSS): 20 mg/L

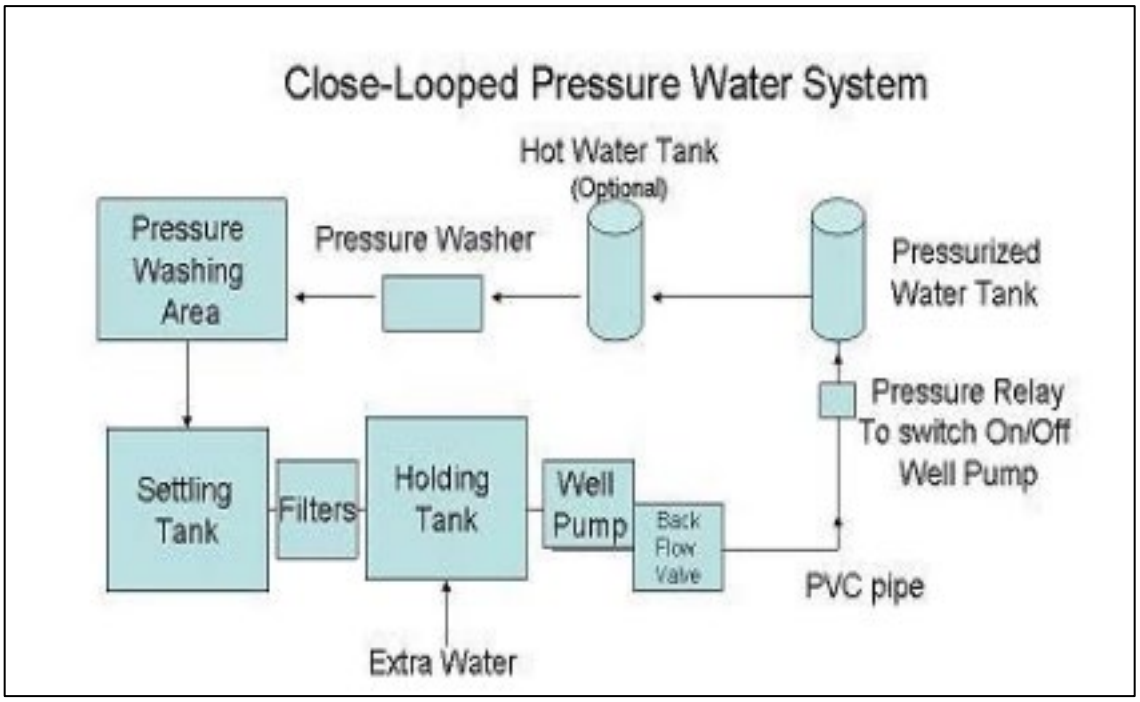
- Biochemical Oxygen Demand (BoD): 20 mg/L
- Oil and Grease: 10 mg/L

AREA's COP recommends that soaps and degreasers not be included in the runoff to the oil/water separators. In particular, the floor drain adjacent to the Main Office includes pressure washing using the degreasers described previously and presumably carrying the hydrocarbons and metals being washed off engine and other car parts into an oil/water separator and rock pit. While the full composition of these discharges and the subsurface receiving environment was not assessed in this report, AREA's COP contains the following recommendations for pressure washer facilities.

Recommendation 2: We recommend a detailed, site-specific Stormwater Management Plan is recommended as part of future development.

Pressure Washers[5]

The design below is the basic design that some recyclers use for a 'closed-loop' pressure washing system. Make sure you have a plumber or engineer design the pipe and pump size. The goal is to avoid discharging water to the ground or the environment.



A septic tank makes a good settling tank – oil and sludge in settling Tank needs to be pumped out occasionally. Filters can be simply absorbent pads that absorb the oil and antifreeze in water. If possible, design a system so that water from the pressure washing area drains using gravity to the holding tank. Extra water will need to be added to the holding tank when water levels get low (water will be lost to evaporation). Aerate the water in the holding tank using a large aquarium air pump to avoid smell.

[5] Courtesy of Automotive Recyclers Environmental Association (https://area-bc.ca/pressure-washers/)

Construction Practices

The proposed rezoning does not include any construction activities; however, general Construction Best Management Practices (BMPs) are provided in Appendix 5 and are recommended as part of any future construction or development. These BMPs are general and specific BMPs should be prepared when a detailed development plan is proposed.

Recommendation 3: We recommend site-specific Construction Best Management Practices (BMPs) be developed and implemented wen a detailed development plan is proposed.

Revegetation

Should there be a desire or future requirements to replant any disturbed areas (i.e. perimeter fence) with native species the following species are recommended:

- Douglas-fir (*Pseudotsuga menziesii*)
- Western red cedar (*Thuja plicata*)
- Red alder (*Albus rubra*)
- Bigleaf maple (*Acer macrophyllum*)
- Nootka rose (*Rosa nutkana*)
- Oceanspray (*Holodiscus discolor*)
- June plum (*Oemelaria cerasiformis*)
- Saskatoon berry (*Amelanchier alnifolia*)
- Dull Oregon grape (*Mahonia nervosa*)
- Sword fern (*Polystichum munitum*)
- Salal (*Gaultheria shallon*)
- Kinnickinnick (*Arctostphylos uva-ursi*)

Development Permit Guidelines

This project, while within three applicable development permit areas, is not proposing redevelopment of the site as part of the rezoning process. We have provided an overview of the applicability of each DPA should the property owner proposed development on the Subject Property.

Sensitive Ecosystem (Mature Forest) Development Permit Area

The following guidelines (in Schedule C: Development Permit Areas of Bylaw 4270) for the Sensitive Ecosystem (Mature Forest) Development Permit Area will be applicable to future development, and should addressed in future development proposal as follows:

Guideline		**Applicable/Not Applicable**
SE1.	Maintain a minimum 15 m natural buffer adjacent to sensitive ecosystem areas that:	
	a. recognizes natural processes and changing natural boundaries;	Applicable

Guideline		Applicable/Not Applicable
	b. avoids disturbance of native vegetation, and removes and/or control invasive plant species on the priority plant list;	Applicable
	c. avoid disturbance to large trees, snags, stumps and logs;	Not Applicable
	d. deter grazing by livestock in sensitive ecosystem areas;	Not Applicable
	e. deter predation and disturbance of wildlife by pets and domestic animals in sensitive and other important ecosystem areas; and	Not Applicable
	f. maintain wildlife corridors between the ecosystem and nearby wildlife habitat patches.	Not Applicable
SE2.	Include in the environmental site plan measures to maintain connectivity and linkages with adjacent sensitive ecosystems and other habitat areas through the use of corridors and greenways to minimize fragmentation. These connectivity features should be as undisturbed/natural as possible (i.e., include a variety of structural attributes or layers such as trees, shrubs, stumps, logs, etc.)	Not Applicable
SE3.	Where the development site contains or is adjacent to a natural watercourse	
	a. prevent access to the watercourse by construction activities, except as approved by government agencies having jurisdiction;	Not Applicable
	b. preserve and restore the watercourse to natural condition, including the planting and retaining of vegetation and trees to preserve and protect fish habitat and riparian areas, control drainage and erosion and protect banks; and	Not Applicable
	c. ensure the environmental site plan complies with provisions of the B.C. Water Sustainability Act, Canada Fisheries Act and B.C. Riparian Areas Protection Regulation.	Not Applicable
SE4.	Design and implement a sediment and erosion control plan to protect sensitive ecosystems from silt smothering of low-growing plants where land disturbance is planned or likely.	Not Applicable
SE5.	Where utilities, servicing and infrastructure are required near sensitive ecosystems	Applicable
	a. locate these works within sensitive ecosystem areas and associated buffers only	Applicable

Guideline		Applicable/Not Applicable
	where the installation is necessary, such as essential public roads, utilities, public works and pathways, and where there is no other physical alternative, by the determination of the local government;	
	b. manage construction to avoid adverse effects on sensitive ecosystem functions and conditions;	Applicable
	c. locate and design installations through the environmental site plan so that sensitive ecosystems can be maintained when adjacent lands are developed; and	Applicable
	d. restore and enhance any disturbed sensitive ecosystems to maintain previously existing natural conditions and functions of the sensitive ecosystem.	Not Applicable
SE6.	Use only native plant species where development occurs within or adjacent to a sensitive ecosystem, and do not use invasive plant species as identified by the Invasive Species Council of BC.	Applicable
SE7.	Create and implement a plan to control the introduction or spread of invasive plant species. This plan may include removal of invasive species by hand clearing, pruning, mowing, excavation, or other appropriate method. Disturbed sites are to be planted with appropriate native species.	Applicable
SE8.	Avoid development activities in areas that would disturb wildlife during nesting and breeding seasons. Ensure that wildlife agencies and experts are consulted as necessary to determine the best times and practices for development.	Applicable
SE9.	Minimize activities that disturb wildlife, compact or expose soils, or damage native vegetation, such as intensive recreation and livestock grazing. Where such activities are unavoidable, use designs that avoid public and livestock access to sensitive and important ecosystems (e.g., via roads and trails).	Not Applicable
SE10.	Minimize the presence of trails and other crossings within environmentally sensitive areas or sensitive ecosystems. Where they are required, they should be designed to	Not Applicable
	a. be as narrow as possible;	Not Applicable
	b. not impact natural hydrological processes (i.e.,	Not Applicable
	c. water flows and drainage pathways)	

Guideline		Applicable/Not Applicable
	d. provide the least intrusive and disruptive route to viewing areas;	Not Applicable
	e. avoid areas with high erosion potential;	Not Applicable
	f. ensure adequate drainage;	Not Applicable
	g. avoid sensitive or rare vegetation; and	Not Applicable
	h. prevent intrusion into wet areas including seepage sites and wetlands.	Not Applicable

Riparian Development Permit Area

All properties in the CRVD are, by default, within the Riparian Development Permit Area. The Subject Property is not within the 30 m Riparian Assessment Area (RAA) of either Colpman or Irving Creek, however, given the topography and alignment of the highway the adjacent ditches would have a 2-m SPEA under the Riparian Area Protection Regulation (RAPR) for Irving Creek. The following guidelines (in Schedule C: Development Permit Areas of Bylaw 4270) for the Riparian Development Permit Area will be applicable to future development due to the connection to Irving Creek:

Guideline		Applicable/Not Applicable
RP1.	No development should occur within a streamside protection and enhancement area except for	
	a. works authorized by the Minister of Fisheries and Oceans or a regulation under the Fisheries Act (Canada);	Applicable
	b. works and activities that comply with the laws and regulations of the Water Sustainability Act, such as bank repairs, stormwater outfalls, road crossings, footbridges and pipeline crossings; and	Applicable
	c. a local government has received an approved, non-expired assessment report from a QEP in which the report indicates how permitted use/density can be authorized on the parcel while causing minimum damage to the SPEA and, in some circumstances, how the SPEA encroachment can be compensated for by enhancement of contiguous land outside the SPEA.	Applicable
RP2.	Notwithstanding RP1, where a minor intrusion into a SPEA determined in accordance with that guideline is required and the SPEA is greater than 15 m setback, the SPEA boundary may be adjusted to accommodate the intrusion where all the following apply:	
	a. the SPEA intrusion is situated within a previously landscaped area;	Not Applicable

Guideline		Applicable/Not Applicable
	b. adjustment of the SPEA boundary does not result in any portion of the boundary being less than 10 m from the high-water mark;	Not Applicable
	c. terrain stability is not compromised;	Not Applicable
	d. land is added to the SPEA equal in area to that removed, so that there is no reduction in the overall SPEA area within the property;	Not Applicable
	e. new areas added to the SPEA to replace those removed are contiguous with the original SPEA and located as close to the stream as possible;	Not Applicable
	f. there is, in the opinion of the QEP who performed the riparian area assessment, no reduction in the overall quality of the fish and wildlife habitat provided by the SPEA;	Not Applicable
	g. a B.C. land surveyor survey plan is provided that identifies the high-water mark of the stream, top of the ravine bank if applicable and adjusted SPEA boundary in relation to the parcel boundaries and existing and proposed development; and	Not Applicable
	h. identify the SPEA in the development permit as an area that must remain free of development as a condition of development.	Not Applicable
RP3.	Address terrain stability as identified in a geotechnical assessment by a qualified engineer or geologist that may have an impact on the SPEA.	Not Applicable
RP4.	Retain lands within the riparian assessment area (including wetland, seasonal watercourse, lake or pond) in their natural state, preserving native vegetation and trees.	Applicable
RP5.	During construction, protect the root zones of trees located within the SPEA and those identified for retention outside the SPEA as identified by an arborist.	Applicable
RP6.	Remove and/or control invasive plant species on the priority plant list established by the Coastal Invasive Species Committee as identified by the QEP.	Applicable
RP7.	Restore previously disturbed riparian areas to a natural condition based on a local reference ecosystem identified by the qualified environmental professional.	Not Applicable
RP8.	Enhance and, where feasible, restore watercourses in already developed areas to improve watercourse quality from uplands to inlets.	Not Applicable

Guideline		Applicable/Not Applicable
RP9.	At the time of subdivision, allocate an area at least 30 m in width from the high-water mark of the watercourse or top of ravine bank to be designated in the development permit to remain free of buildings, structures and alterations of land; designate the riparian assessment area in the development permit as an area that must remain free of development; and lay out subdivision parcels accordingly.	Not Applicable
RP10.	Design subdivisions so that all parcels allow for a suitable building envelope and driveway that is set back from the riparian assessment area at least 7.5 m.	Not Applicable
RP11.	Design subdivisions to avoid crossings of riparian areas and to maximize the distance between roads and riparian areas.	Not Applicable
RP12.	Where a crossing of a riparian area is unavoidable, locate and design crossings to minimize the environmental impact.	Not Applicable
RP13.	Design subdivisions to avoid disruption of wildlife corridors in riparian areas.	Not Applicable
RP14.	Develop and implement a soil erosion and sediment control plan as part of site design and construction to prevent the discharge of sediment-laden water into a stream.	Applicable
RP15.	Install temporary fencing and signage to prevent encroachment into the streamside protection and enhancement area during land preparation and construction.	Applicable
RP16.	Minimize alteration of the contours of the land outside the areas approved for buildings, structures and site accesses by minimizing the deposit of fill and the removal of soil.	Not Applicable
RP17.	Locate buildings, structures and driveways to maximize separation from riparian areas.	Applicable

Aquifer Protection Development Permit Area

The following guidelines (in Schedule C: Development Permit Areas of Bylaw 4270) for Aquifer Protection Development Permit Area will be applicable to future development, and should addressed in future development proposal as follows:

Guideline		Applicable/Not Applicable
AP1.	Plan and undertake development activities in a manner that complies with B.C. and federal government guidelines for best management practices, including	

Guideline		Applicable/Not Applicable
	a. Develop with Care: Environmental Guidelines for Urban and Rural Land Development in British Columbia Government of British Columbia, 2014; and	Applicable
	b. Natural Resource Best Management Practices Government of British Columbia.	Not Applicable
AP2.	Follow B.C. and federal government best management practices for the protection of water quality and quantity in surface and groundwater hydrologic systems, including	
	a. Integrated Rainwater and Groundwater Management Water Sustainability Action Plan for British Columbia, 2012;	Applicable
	b. Land Development Guidelines for the Protection of Aquatic Habitat. Fisheries and Oceans Canada, 1993; and	Not Applicable
	c. Stormwater Planning. Government of British Columbia, 2002.	Applicable
AP3.	Do not construct any septic tank, storage tank, drainage, irrigation or water system in any area identified as having unstable soils or water laden lands subject to degradation. The development permit may allow individual and low-density septic disposal systems only if there is adequate investigation and monitoring to assess the effects of the proposal on the groundwater regime and the steps taken to mitigate degradation.	Unknown
AP4.	Ensure sewage treatment and disposal methods meet the requirements of the most recent Liquid Waste Management Plans.	Applicable
AP5.	Locate, design, construct and maintain buildings, structures and uses involving the transportation, storage or use of materials, chemicals, compounds, or substances that could contaminate an aquifer or groundwater, including materials or substances used during land alteration and construction activities, to minimize the possibility of contamination.	Applicable
AP6.	Implement landscape approaches such as xeriscaping that minimize watering requirements, preserve native vegetation and use non-invasive plant species suited to the local climate.	Applicable

Summary

The proposal for the Subject Property is to change the zoning to be in line with the existing use. There are no other development activities proposed. Construction Best Management Practices are recommended as part of any future construction or development.

The auto wrecking and salvage operations occurring on the subject property are being conducted within the industry guidelines and provincial government's regulations. This report recommends that improvements be made to the stormwater and wastewater management monitoring and, if additional site development occurs, improvements to the stormwater and wastewater infrastructure. Erosion and sediment control and spill prevention and response measures will be required during development to protect the aquifer. A detailed, site-specific waste management plan is recommended as part of future development.

The current use is not directly negatively impacting the adjacent Mature Forest. The owners are actively managing invasive species within this buffer and are further protecting the Mature Forest buffer with a laneway and fencing at the property line. If possible, future development should be limited to the existing disturbed areas to leave the remaining buffer to the sensitive Mature Forest ecosystem in intact.

The Subject Property is not within the 30 m Riparian Assessment Area (RAA) of either Colpman or Irving Creek, however, given the topography and alignment of the highway the adjacent ditches would have a 2-m SPEA under the Riparian Area Protection Regulation (RAPR) for Irving Creek.

Please do not hesitate to contact me with any questions you may have.

Sincerely,

Laura Hooper

Laura Hooper, MSc, PAg (#2546)

S. Stallard

Sara Stallard BSc. AScT (#22338), Envr Tech

Photo 1: Asphalt entrance and gate to 240 Okotoks Road.

Photo 2: Wooden fence on north property line of 240 Okotoks Road.

Photo 3: Typical chain link fence on east and south property line of 240 Okotoks Road.

Photo 4: Post and page wire fence on the west property line of 240 Okotoks Road.

Photo 5: Main office building at 240 Okotoks Road.

Photo 6: Well organized rows of hulks at 240 Okotoks Road.

Photo 7: Well organized rows of hulks at 240 Okotoks Road.

Photo 8: Dry storage of car parts destined for recycling in a dome tent at 240 Okotoks Road.

Photo 9: Dry storage of car parts destined for recycling in a dome tent at 240 Okotoks Road.

Photo 10: Well organized tires for recycling at 240 Okotoks Road.

Photo 11: Well organized tires for resale at 240 Okotoks Road.

Photo 12: Example of the soil surface staining from small spills at 240 Okotoks Road.

Photo 13: Example of the waste metal shavings and small car parts on the soil surface at 240 Okotoks Road.

Photo 14: Parts pressure-washing in dome tent attached to the main office building at 240 Okotoks Road.

Photo 15: Location of rock pit connected to the floor drain in dome tent of the main office at 240 Okotoks Road.

Photo 16: Rock pit connected to the floor drain in dome tent of the main office at 240 Okotoks Road.

Photo 17: Drainage spillway of the main office roof leaders at 240 Okotoks Road.

Photo 18: Slotted manhole cover in parking lot for overland flow and connected to the perimeter drain at 240 Okotoks Road.

Photo 19: Drainage ditch for perimeter drain and parking lot of 240 Okotoks Road.

Photo 20: Miscellaneous storage within two-storey barn (old shop/office) at 240 Okotoks Road.

Photo 21: Seacan Dome at 240 Okotoks Road.

Photo 22: Fluid removal area including a specialized machine for removal and compression of air conditioning (AC) refrigerant within Seacan Dome at 240 Okotoks Road.

Photo 23: Concrete Block Dome, flanked by the Seacan Dome and Dome Tent at 240 Okotoks Road.

Photo 24: Oil shed building at 240 Okotoks Road.

Photo 25: Interior of Concrete Block Dome at 240 Okotoks Road.

Photo 26: Interior of Oil Shed Building at 240 Okotoks Road.

Photo 27: Large Dome Tent at 240 Okotoks Road.

Photo 28: Storage within the Large Dome Tent at 240 Okotoks Road.

Photo 29: Weigh Scale at 240 Okotoks Road.

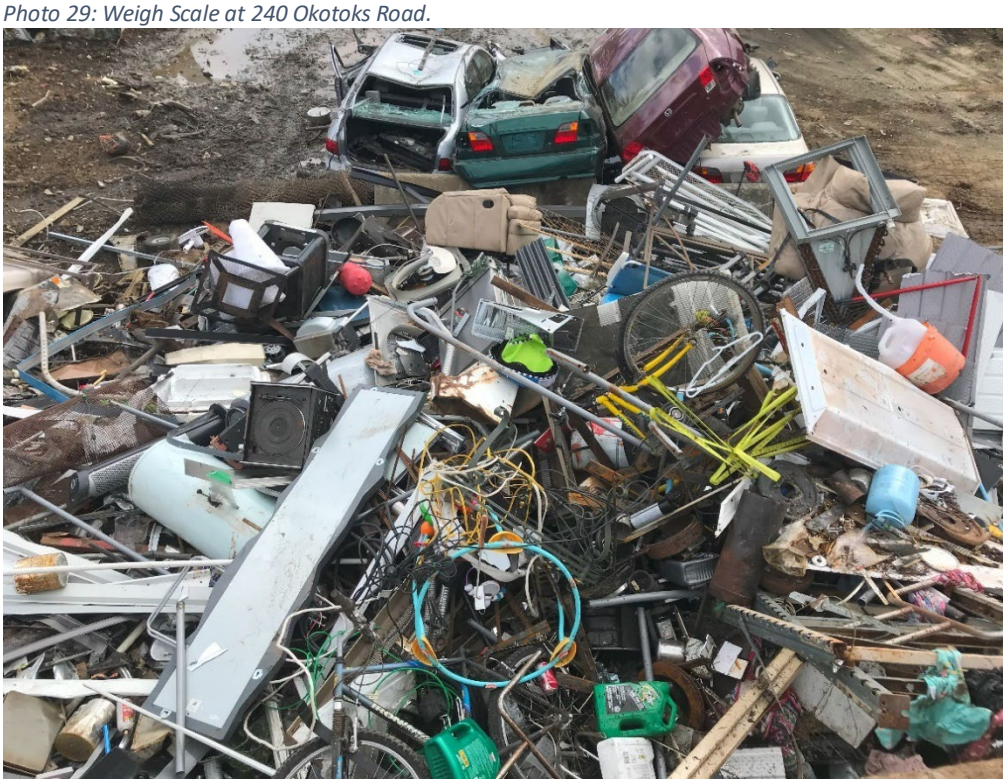


Photo 30: General Scrap Metal (non-auto) deposition area at the base of the Crusher Ramp that contains material dumped from roll off bins and peddler traffic at 240 Okotoks Road.

Photo 31: Steel Crusher Ramp area at 240 Okotoks Road.

Photo 32: Stockpile of propane tanks at 240 Okotoks Road.

Photo 33: Pooling of surface water at propane tanks that flows off site to the ditch adjacent to the Trans-Canada Highway.

Photo 34: Depression flowing south to empty into the west ditch at the driveway entrance of 240 Okotoks Road.

Photo 35: Band of vegetation at the western edge of Okotoks Road.

Photo 36: Invasive species management at 240 Okotoks Road.

Appendix 1: Contaminated Site Registry search results for 240 Okotoks Road.

From: BCOLHELP@gov.bc.ca
Subject: Site Registry Search Results
Date: May 6, 2024 at 4:59 PM

Site Registry - Area Search

BC Registries and Online Services

These are the records from the Site Registry that match the search criteria provided:

Folio:

Latitude: 48deg 32min 40.7sec

Longitude: 123deg 33min 56.6sec

Radius: 0.5km

Site ID:	Address/City:	Last Updated:
0000007211	265 TRANS CANADA HIGHWAY, MALAHAT	2013-04-22
0000015224	231 TRANS CANADA HIGHWAY, MALAHAT	2022-07-28
0000020988	290 TRANS-CANADA HIGHWAY, MALAHAT	2018-02-27
0000024189	WEST OF NORTHER JUNCTION OF OKOTOKS DR, MALAHAT	2023-04-06
0000024190	SOUTH OF NORTHER JUNCTION, MALAHAT	2022-03-04
0000024191	NORTH OF NORTHER JUNCTION OF, MALAHAT	2023-04-06

End of Search Results

Site Registry - Site Details Report

BC Registries and Online Services

SITE LOCATION

Site ID:	24191	**Latitude:**	48d 32m 32.7s
Victoria File:	26250-20/24191	**Longitude:**	123d 33m 56.5s
Regional File:			
Common Name:	SITE3 OKOTOKS DR MALAHAT	**Prov/State:**	BC
Site Address:	NORTH OF NORTHER JUNCTION OF OKOTOKS DR AND HWY 1		
City:	MALAHAT		
Postal Code:			

Notations:	3	**Participants:**	4	**Associated Sites:**	0
Documents:	3	**Susp. Land Use:**	0	**Parcel Descriptions:**	1

Location Description: LATS/LONGS VERIFIED WITH LTSA MAR 2021

NOTATIONS:

Notation Type: DETERMINATION OF CONTAMINATED SITE REQUESTED
Notation Class: ENVIRONMENTAL MANAGEMENT ACT: GENERAL
Initiated: 2021-03-08
Completed: 2021-03-08
Ministry Contact: POPOVA, ANNA
Note:
Required Actions:

Notation Participants

Name: MINISTRY OF TRANSPORTATION
Role: SUBMITTED BY
Name: PGL ENVIRONMENTAL CONSULTANTS
Role: APPROVED PROFESSIONAL

Notation Type: PRELIMINARY DETERMINATION OF CONTAMINATED SITE ISSUED - SITE NOT CONTAMINATED
Notation Class: ENVIRONMENTAL MANAGEMENT ACT: GENERAL
Initiated: 2021-04-28
Completed: 2021-04-28
Ministry Contact: MORTENSEN, ANNETTE
Note:
Required Actions:

Notation Participants

Name: BC TRANSPORTATION FINANCING AUTHORITY
Role: RECEIVED BY
Name: MORTENSEN, ANNETTE
Role: ISSUED BY

Notation Type: FINAL DETERMINATION OF CONTAMINATED SITE ISSUED - SITE NOT CONTAMINATED
Notation Class: ENVIRONMENTAL MANAGEMENT ACT: GENERAL
Initiated: 2021-07-12
Completed: 2021-07-12
Ministry Contact: CHAO, KO
Note: FINAL DETERMINATION - LOT B NORTH OF THE NORTHERN JUNCTION OF OKOTOKS DRIVE AND HIGHWAY 1, MALAHAT, BRITISH COLUMBIA
Required Actions:

Notation Participants

Name: BC TRANSPORTATION FINANCING AUTHORITY
Role: RECEIVED BY
Name: MORTENSEN, ANNETTE
Role: ISSUED BY

SITE PARTICIPANTS:

Participant: PGL ENVIRONMENTAL CONSULTANTS
Role(s): ORGANIZATION
Start Date: 2019-08-25 **End Date:**
Notes:

Participant: MINISTRY OF TRANSPORTATION
Role(s): ORGANIZATION
Start Date: 2021-03-08 **End Date:**
Notes:

Participant: MORTENSEN, ANNETTE
Role(s): EMPLOYEE
Start Date: 2021-04-28 **End Date:**
Notes:

Participant: BC TRANSPORTATION FINANCING AUTHORITY
Role(s): ORGANIZATION
Start Date: 2021-04-28 **End Date:**
Notes:

DOCUMENTS:

Title: SUMMARY OF SITE CONDITIONS
Document Date: 2019-08-25 **Received Date:** 2021-04-28

Document Participants

Name: PGL ENVIRONMENTAL CONSULTANTS
Role: AUTHOR

Title: STAGE 1 PRELIMINARY SITE INVESTIGATION, LOT 2, SITES 2 AND 3, OKOTOKS DRIVE, MALAHAT, BC
Document Date: 2020-01-01 **Received Date:** 2021-04-28

Document Participants

Name: PGL ENVIRONMENTAL CONSULTANTS
Role: AUTHOR

Title: STAGE 1 PRELIMINARY SITE INVESTIGATION UPDATE AND STAGE 2 PRELIMINARY SITE INVESTIGATION, LOT 2, SITE 2, 3, AND 5, OKOTOKS DRIVE, MALAHAT, BC
Document Date: 2020-07-01 **Received Date:** 2021-04-28

Document Participants

Name: PGL ENVIRONMENTAL CONSULTANTS
Role: AUTHOR

No associated sites have been submitted for this site

No suspect land uses have been submitted for this site

PARCEL DESCRIPTIONS:

Date Noted: 2021-03-08 **Parcel ID:** 031128670
Crown Land PIN: **Crown Lands File Number:**
Land Description: LOT B DISTRICT LOTS 105, 138 AND 149 MALAHAT DISTRICT PLAN EPP89649

No site profile has been submitted for this site

End of Site Details Report

Site Registry - Site Details Report

BC Registries and Online Services

SITE LOCATION

Site ID:	20988	**Latitude:**	48d 32m 43.3s
Victoria File:	26250-20/20988	**Longitude:**	123d 33m 54.8s
Regional File:			
Common Name:	290 TRANS-CANADA HWY MALAHAT	**Prov/State:**	BC
Site Address:	290 TRANS-CANADA HIGHWAY		
City:	MALAHAT		
Postal Code:			

Notations:	4	**Participants:**	8	**Associated Sites:**	0
Documents:	2	**Susp. Land Use:**	0	**Parcel Descriptions:**	2

Location Description: LATS/LONGS VERIFIED WITH GOOGLE EARTH SEP 2017

NOTATIONS:

Notation Type: SITE RISK CLASSIFIED - SITE IS NON-HIGH RISK
Notation Class: ENVIRONMENTAL MANAGEMENT ACT: GENERAL
Initiated: 2017-08-22
Completed: 2017-08-22
Ministry Contact: YAN, PETER
Note:
Required Actions:

Notation Participants

Name: SLR CONSULTING (CANADA) LTD.
Role: SUBMITTED BY

Notation Type: DETERMINATION OF CONTAMINATED SITE REQUESTED
Notation Class: ENVIRONMENTAL MANAGEMENT ACT: GENERAL
Initiated: 2017-09-13
Completed: 2017-09-13
Ministry Contact: POPOVA, ANNA
Note:
Required Actions:

Notation Participants

Name: MINISTRY OF TRANSPORTATION
Role: SUBMITTED BY
Name: SLR CONSULTING (CANADA) LTD.

Role: APPROVED PROFESSIONAL

Notation Type: PRELIMINARY DETERMINATION OF CONTAMINATED SITE ISSUED - SITE NOT CONTAMINATED
Notation Class: ENVIRONMENTAL MANAGEMENT ACT: GENERAL
Initiated: 2017-10-27
Completed: 2017-10-27
Ministry Contact: BROOKE, JULIA A
Note:
Required Actions:

Notation Participants

Name: SLR CONSULTING (CANADA) LTD
Role: ROSTERED EXPERT UNDER PROTOCOL SIX
Name: MINISTRY OF TRANSPORTATION
Role: RECEIVED BY
Name: BROOKE, JULIA A
Role: ISSUED BY

Notation Type: FINAL DETERMINATION OF CONTAMINATED SITE ISSUED - SITE NOT CONTAMINATED
Notation Class: ENVIRONMENTAL MANAGEMENT ACT: GENERAL
Initiated: 2017-12-13
Completed: 2017-12-13
Ministry Contact: SAMWAYS, JENNIFER
Note: ISSUED ON THE RECOMMENDATION OF AN APPROVED PROFESSIONAL (TRACI BRANNEN MAGEE) UNDER PROTOCOL 6 OF THE CONTAMINATED SITES REGULATION
Required Actions:

Notation Participants

Name: MINISTRY OF TRANSPORTATION AND INFRASTRUCTURE
Role: RECEIVED BY
Name: BROOKE, JULIA A
Role: ISSUED BY
Name: SLR CONSULTING (CANADA) LTD
Role: APPROVED PROFESSIONAL

SITE PARTICIPANTS:

Participant: SLR CONSULTING (CANADA) LTD.
Role(s): ORGANIZATION
Start Date: 2017-07-01 **End Date:**
Notes:

Participant: YAN, PETER
Role(s): EMPLOYEE
Start Date: 2017-08-22 **End Date:**
Notes:

Participant: POPOVA, ANNA
Role(s): EMPLOYEE
Start Date: 2017-09-13 **End Date:** 2021-06-14
Notes:

Participant: MINISTRY OF TRANSPORTATION
Role(s): ORGANIZATION
Start Date: 2017-09-13 **End Date:**
Notes:

Participant: SLR CONSULTING (CANADA) LTD
Role(s): ORGANIZATION
Start Date: 2017-10-27 **End Date:**
Notes:

Participant: BROOKE, JULIA A
Role(s): EMPLOYEE
Start Date: 2017-10-27 **End Date:**
Notes:

Participant: MINISTRY OF TRANSPORTATION AND INFRASTRUCTURE
Role(s): ORGANIZATION
Start Date: 2017-12-13 **End Date:**
Notes:

Participant: SAMWAYS, JENNIFER
Role(s): EMPLOYEE
Start Date: 2017-12-13 **End Date:** 2021-06-14
Notes:

DOCUMENTS:

Title: STAGE 1 AND 2 PRELIMINARY SITE INVESTIGATION, HOGGS VW REPAIR, 290 TRANS-CANADA HIGHWAY, MALAHAT, BC
Document Date: 2017-07-01 **Received Date:** 2017-09-21

Document Participants

Name: SLR CONSULTING (CANADA) LTD.
Role: AUTHOR

Title: SUMMARY OF SITE CONDITION
Document Date: 2017-09-01 **Received Date:** 2017-09-21

Document Participants

Name: SLR CONSULTING (CANADA) LTD.
Role: AUTHOR

No associated sites have been submitted for this site

No suspect land uses have been submitted for this site

PARCEL DESCRIPTIONS:

Date Noted:	2017-09-28	**Parcel ID:**	005489865
Crown Land PIN:		**Crown Lands File Number:**	
Land Description:	LOT 1 DISTRICT LOT 105 MALAHAT DISTRICT PLAN 8925 EXCEPT PART IN PLAN EPP72439		

Date Noted:	2017-11-30	**Parcel ID:**	030309581
Crown Land PIN:		**Crown Lands File Number:**	
Land Description:	LOT A DISTRICT LOT 105 MALAHAT DISTRICT PLAN EPP72442		

No site profile has been submitted for this site

End of Site Details Report

Appendix 2: Reportable spill types and volumes under the Environmental Management Act.

Ministry of Environment and Climate Change Strategy

March 2021

Spill Reporting

Report spills immediately

If a spill occurs, or is at imminent risk of occurring, responsible persons (spillers) must ensure that it is immediately reported to the Provincial Emergency Program (PEP)/ Emergency Management British Columbia (EMBC) by calling **1-800-663-3456.**

Section 91.2 of *Environmental Management Act* (EMA) identifies the requirements for spill reporting. The Spill Reporting Regulation (SRR) prescribes the information that is required, as well as the time and manner in which it is required, when reporting spills.

This Fact Sheet is designed to provide information for responsible persons on their reporting obligations should they be in possession, charge, or control of a substance when it spills or is at imminent risk of spilling.

Responsible Person

A responsible person has possession, charge or control of a substance or thing when a spill of the substance or thing occurs or is at imminent risk of occurring.

Definition of a Spill

A spill is defined by the *Environmental Management Act* as the introduction into the environment, other than as authorized and whether intentional or unintentional, of a substance or thing that has the potential to cause adverse effects to the environment, human health, or infrastructure.

The SRR identifies three reports that responsible persons must make based on specific criteria: Initial Report; Update to Minister Report; and End-of-Spill Report. Responsible persons may also be required to make a fourth report, a Lessons-Learned Report, if ordered to do so by a director. The purpose of these reports is to ensure that the Ministry of Environment and Climate Change Strategy (the ministry) has the appropriate information necessary to assess spill impacts and fulfil oversight and regulatory roles and responsibilities.

Initial Report

Section 4 of the SRR outlines the information required in the Initial Report. An Initial Report must be made immediately if any of the following occur or is at imminent risk of occurring:

1. **If the volume spilled, or likely to be spilled, is equal to or greater than the minimum quantity outlined in the SRR, the spill is reportable**. A list of substances and their reportable quantities is available in Appendix 2: Prescribed substances and quantities for immediate spill reporting of this Fact Sheet.

2. **If the spill enters, or is likely to enter, a body of water, the spill is reportable.** A body of water is defined in the SRR and includes both marine and fresh bodies of water whether or not they usually

contain water or ice, as well as streams, lakes, ponds, rivers, creeks, springs, aquifers, ravines, gulches, wetlands, and glaciers. The requirement to report a spill of a listed substance of any quantity also includes spills that enter a ditch that is not self-contained and connects to a body of water.

The Initial Report must be made immediately to EMBC by calling 1-800-663-3456. Anyone can make the Initial Report: however, the responsible person must ensure the report has been made and all the information outlined in section 4 of the SRR has been reported. (Appendix 1)

Natural Gas
A release of natural gas is reportable if: 1. The spill is caused by a breakage in a pipeline or fitting operated above 100 pounds per square inch (psi) that results in a sudden release of natural gas; and 2. The amount of the spill is, or is likely to be, equal to or greater than 10 kilograms (kg).

Update to Minister Report

Section 5 of the SRR outlines the requirement for the submission of Update to Minister Reports. Responsible persons must provide an Update to Minister Report:

1. **As soon as possible on request of the minister.**

2. **At least once every 30 days after the date that the spill began** until such time that an End-of-Spill Report is required.

3. **At any time that the responsible person has reason to believe that information that was previously reported as part of the Initial Report, as outlined in Appendix 1, was or has become inaccurate or incomplete.**

If the Update to Minister Report is requested by the Minister or if the spill lasts more than 30 days and the Update to Minister Report is required, an email will be sent by the ministry to the responsible person with instructions on how to complete the report form and how it must be submitted.

If the responsible person believes information previously reported as part of the Initial Report was or has become inaccurate or incomplete, the responsible person can contact the Environmental Emergency Program at SpillReports@gov.bc.ca, stating the Dangerous Goods Incident Report number in the subject line, to advise that an Update to Minister Report is required. Instructions on how to complete the report form and how it must be submitted will be sent to the responsible person by email.

End-of-Spill Report

Section 6 of the SRR outlines the requirement for the submission of End-of-Spill Reports. Responsible persons must submit a written report to the ministry within 30 days following the emergency response completion date of a spill, see information box below. An End-of-Spill Report is required when:

1. **The volume spilled is equal to or greater than the minimum quantity outlined in the SRR.** A list of substances and quantities for immediate spill reporting (is provided in Appendix 2.):

2. **The spill enters, or is likely to enter, a body of water-** 'body of water' is defined in the SRR.

The accountability to adhere to the requirements set out in the SRR is that of the responsible person. All reports, other than the Initial Report, are to be sent to the Environmental Emergency Program at SpillReports@gov.bc.ca.

Emergency Response Completion Date

The emergency response completion date is defined in section 8 of the SRR as the date that all the following criteria are met:

1. The Incident Command Post is disestablished.
2. The source of the spill is under control and is neither spilling nor at imminent risk of spilling.
3. Emergency actions to stabilize, contain, and remove the spill have been taken.
4. The waste has been removed from the spill site.
5. All evacuation notices have expired or been rescinded.
6. All equipment, personnel, and other resources used in emergency spill response actions have been removed from the spill site, other than resources required for sampling, testing, monitoring, assessing the spill site, or for recovery and restoration of the spill site.

Lessons-Learned Report

Section 7 of the SRR outlines the requirements of a Lessons-Learned Report. Within six months following the emergency response completion date of a spill, the director may order a Lessons-Learned Report from the responsible person. This report must be submitted to the director in the manner and form specified by the director. For additional information on the Lessons-Learned Report, please see the Lessons-Learned Fact Sheet.

B.C. Oil and Gas Commission Equivalency

Responsible persons regulated by the B.C. Oil and Gas Commission (the Commission) under the Emergency Management Regulation must provide an Initial Report to EMBC, but are exempt from the following requirements in the SRR:

- Section 5 Update to Minister Report;
- Section 6 End-of-Spill Report; and
- Section 7 Lessons-Learned Report.

Fines and Penalties

It is the responsibility of regulated persons, responsible persons and the owners of substances or things to understand and comply with EMA and its associated regulations.

This document is solely for the convenience of the reader and is intended to assist in understanding the legislation and regulations, not replace them. It does not contain and should not be construed as legal advice. Current legislation and regulations should be consulted for complete information.

Failure to be in compliance can result in convictions of fines and imprisonment, as outlined in *EMA* and its associated regulations.

Additional Fact Sheets

Fact sheets on other relevant topics are published by the Environmental Emergency Program (EEP) and available at:

www.gov.bc.ca/spillresponse

The complete list of available Fact Sheets:

01 Regulated Person
02 Responsible Person
03 Spill Reporting
04 Lessons-Learned Report
05 Cost Recovery
06 Requirement to Provide Information
07 Spill Contingency Planning
08 Testing Spill Contingency Plans
09 Recovery Plan

For more information, contact the Environmental Emergency Program at: SpillReports@gov.bc.ca

Appendix 1: Initial Report content

Report information	Description
1. Contact information of the individual making the report	First and last name, phone number, and email address
2. Contact information of the responsible person	First and last name, phone number, and email address
3. Contact information for the owner of the substance spilled	First and last name, phone number, and email address
4. Location, date, and time of the spill	Provide as much location specific information as possible, including: general directions, description of how to approach the area, latitude and longitude if available, street address, and the date and time in 24-hour clock format
5. Description of the spill site and surrounding area	Provide a description of the receiving environment of the spilled material (for example, the area is wooded and the ground is soft; there are sensitive riparian areas that are at risk of contamination)
6. A description of the source of the spill	The container from which the material spilled (for example, fishing vessel, above- or below-ground storage tank, tanker truck, pipeline, or railcar)
7. Type and quantity of the substance spilled	An estimate of the amount of product spilled and a description of the product type, including product name, UN number, and Safety Data Sheet [SDS] (for example, diesel, UN 1202, 50 liters). If unknown, a description of the spill (for example, sheen or slick approximately 20 meters by 20 meters)
8. Cause and impact of the spill	The circumstances leading to the spill; the immediate cause as well as any contributing factors. May be a combination of the activity and the incident (for example, motor vehicle accident derailment, equipment failure, fire, human error, intentional/unauthorized release, natural occurrence, or unknown)
9. Details of the actions taken or proposed	Provide any necessary/ helpful details of the actions taken or planned (for example, what steps have been taken to contain the spill, which responders have been deployed, and when they will be on scene)
10. The details of further action contemplated or required	Provide any necessary/ helpful details regarding next steps, including response actions, deployment of additional resources, and monitoring activities
11. The names of agencies on scene	Any persons, government, federal government, local government, or Indigenous agencies
12. The names of other persons or agencies advised concerning the spill	Any persons, government, federal government, local government, or Indigenous agencies

Appendix 2: Prescribed substances and quantities for immediate spill reporting[1]

Item	Column 1 Substance Spilled	Column 2 Specified Amount
1	Class 1, Explosives as defined in section 2.9 of the Federal Regulations[2]	50 kg, or less if the substance poses a danger to public safety
2	Class 2.1, Flammable Gases, other than natural gas, as defined in section 2.14 (a) of the Federal Regulations	10 kg
3	Class 2.2 Non-Flammable and Non-Toxic Gases as defined in section 2.14 (b) of the Federal Regulations	10 kg
4	Class 2.3, Toxic Gases as defined in section 2.14 (c) of the Federal Regulations	5 kg
5	Class 3, Flammable Liquids as defined in section 2.18 of the Federal Regulations	100 L
6	Class 4, Flammable Solids as defined in section 2.20 of the Federal Regulations	25 kg
7	Class 5.1, Oxidizing Substances as defined in section 2.24 (a) of the Federal Regulations	50 kg or 50 L
8	Class 5.2, Organic Peroxides as defined in section 2.24 (b) of the Federal Regulations	1 kg or 1 L
9	Class 6.1, Toxic Substances as defined in section 2.27 (a) of the Federal Regulations	5 kg or 5 L
10	Class 6.2, Infectious Substances as defined in section 2.27 (b) of the Federal Regulations	1 kg or 1 L, or less if the waste poses a danger to public safety or the environment
11	Class 7, Radioactive Materials as defined in section 2.37 of the Federal Regulations	Any quantity that could pose a danger to public safety and an emission level greater than the emission level established in section 20 of the Packaging and Transport of Nuclear Substances Regulations, 2015 (Canada)
12	Class 8, Corrosives as defined in section 2.40 of the Federal Regulations	5 kg or 5 L
13	Class 9, Miscellaneous Products, Substances or Organisms as defined in section 2.43 of the Federal Regulations	25 kg or 25 L

[1] If the spill enters, or is likely to enter, a body of water, it is reportable regardless of the quantity
'Federal regulations' refer to the Transportation of Dangerous Goods Regulations under the *Transportation of Dangerous Goods Act 1992*
'Hazardous Waste Regulation' refers to B.C. Reg. 63/88

14	Waste containing dioxin as defined in section 1 of the Hazardous Waste Regulation	1 kg or 1 L, or less if the waste poses a danger to public safety or the environment
15	Leachable toxic waste as defined in section 1 of the Hazardous Waste Regulation	25 kg or 25 L
16	Waste containing polycyclic aromatic hydrocarbons as defined in section 1 of the Hazardous Waste Regulation	5 kg or 5 L
17	Waste asbestos as defined in section 1 of the Hazardous Waste Regulation	50 kg
18	Waste oil as defined in section 1 of the Hazardous Waste Regulation	100 L
19	Waste that contains a pest control product as defined in section 1 of the Hazardous Waste Regulation	5 kg or 5 L
20	PCB wastes as defined in section 1 of the Hazardous Waste Regulation	25 kg or 25 L
21	Waste containing tetrachloroethylene as defined in section 1 of the Hazardous Waste Regulation	50 kg or 50 L
22	Biomedical waste as defined in section 1 of the Hazardous Waste Regulation	1 kg or 1 L, or less if the waste poses a danger to public safety or the environment
23	A hazardous waste as defined in section 1 of the Hazardous Waste Regulation and not covered under items 1 – 22	25 kg or 25 L
24	A substance, not covered by items 1 to 23, that can cause pollution	200 kg or 200 L
25	Natural gas	10 kg, if there is a breakage in a pipeline or fitting operated above 100 psi that results in a sudden and uncontrolled release of natural gas

Appendix 3: Layout of significant features of 240 Okotoks Road.

Rem. A
Plan VIP56326

Rem. 1
Plan 38729

Road on Plan EPP70070

Centerline of Wood Fence
68.74
139
60cm Maple
50cm Fir
59 Spike
26 Spike
Gate Post
45.81
Rem. Parcel A
(DD 186208I)
District Lot 105
55cm Cedar
2.56
Building
2.43
39.02
22 Spike
Crusher
Crusher Ramp
25 Spike
47.37
Centerline of Wire Fence
249.53
24 Spike
110cm Cedar
Right of Way 122733G
A
Plan EPP72442
2.97 ha
60 Spike
106.42
80cm Cedar
80cm Cedar
143 Spike
Centerline of Old Metal Fence
Dome Tent
Concrete Block Dome
Building
Seacan Dome
Approximate location of works related to BC Hydro SRW CA6714702
0.75m Concrete Block
0.75m Concrete Block
198 Spike
Toe of Boulder
Top of Slope
Toe of Slope
283 Feltmark
Gravel Access
Dome Tent
Building
Concrete Pad
Catch Basin
Edge of Pavement
Edge of Mountable Asphalt Curb
92.53
197 MAG
50.42
Trans-Canada Highway
Road on Plan EPP70072
Rem. District Lot 105
171 Spike
Barn
11.86
74.83
Centerline of Old Metal Fence
392
Gate Post
47.25
Road on Plan EPP89648
369 MAG
Rem. 9
Plan 2001

LEGEND

- Denotes Standard Iron Post Found
- Denotes Traverse Station Placed
- Denotes Coniferous Tree
- Denotes Deciduous Tree
- 234.00+ Denotes Typical Spot Elevation
- Denotes Utility Pole
- Denotes Utility Pole Anchor

N

SITE PLAN

MALAHAT AUTO WRECKING & RECYCLING

Lot A, District Lot 105,
Malahat District,
Plan EPP72442

ADDRESS : 720 Okotoks Road, Malahat	
PROJECT SURVEYOR : RPH	
DRAWN BY : BAR	DATE : MAR 13/24
OUR FILE : 34730	REVISION :

JEA J.E. ANDERSON & ASSOCIATES
SURVEYORS – ENGINEERS
4212 GLANFORD AVE, VICTORIA, B.C. V8Z 4B7
TEL: 250-727-2214 FAX: 250-727-3395
E-MAIL : info@jeanderson.com
VICTORIA-NANAIMO-PARKSVILLE-CAMPBELL RIVER

V:_Projects\34730\06\03\Microsurvey\34730.dwg

Distances and elevations are in metres

Elevations are geodetic based on GNSS observations

Elevations are at grade unless noted otherwise

Dimensions from property line are to siding

This sketch does not constitute a redefinition of the legal boundaries hereon described and is not to be used in any matter which would assume same.

J.E. Anderson & Associates accepts no responsibility or liability for any damages that may be suffered by a third party as a result of any decision made, or actions taken based on this document.

This plan is intended for use as a topographic site plan. It is based on Land Title Office records and ties to surrounding survey evidence and does not represent a boundary survey. Critical lot dimensions, lot areas and building setbacks should be confirmed by a legal cadastral survey.

Subject to charges, legal notations, and interests shown on: Title No. CB105968 (P.I.D. 030-309-581)

0 4 8 16 24 32 40

The intended plot size of this plan is 560mm in width by 864mm in height (D size) when plotted at a scale of 1:400.

Appendix 4: Safety Data Sheets (SDS) for cleaning products used at 240 Okotoks Road.

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Material name : ZEP MORADO SUPER CLEANER 5GL

Material number : 000000000000085635

Manufacturer or supplier's details

Company : Zep Inc.

Address : 350 Joe Frank Harris Parkway, SE
Emerson, GA 30137

Telephone : Compliance Services - 877-428-9937

Emergency telephone numbers

For SDS Information	:	Compliance Services - 877-428-9937
For a Medical Emergency	:	877-541-2016 Toll Free - All Calls Recorded
For a Transportation Emergency	:	CHEMTREC: 800-424-9300 - All Calls Recorded. In the District of Columbia 202-483-7616

Recommended use of the chemical and restrictions on use

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance	liquid
Colour	purple
Odour	ether-like

GHS Classification

Skin corrosion : Category 1
Serious eye damage : Category 1

GHS label elements

Hazard pictograms :

Corrosion

Signal word : Danger

Hazard statements : H314 Causes severe skin burns and eye damage.

Precautionary statements : **Prevention:**
P264 Wash skin thoroughly after handling.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
Response:
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353 IF ON SKIN (or hair): Take off

immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
P363 Wash contaminated clothing before reuse.
Storage:
P405 Store locked up.
Disposal:
P501 Dispose of contents/container in accordance with local regulation.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous components

Chemical name	CAS-No.	Concentration [%]
Alcohols, C9-11, ethoxylated	68439-46-3	>= 3 - < 5
2-butoxyethanol	111-76-2	>= 1 - < 3
sodium hydroxide	1310-73-2	>= 1 - < 3
Benzenesulfonic acid, mono-C10-16-alkyl derivs., sodium salts	68081-81-2	>= 1 - < 3

The exact percentages of disclosed substances are withheld as trade secrets.

SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.
Show this safety data sheet to the doctor in attendance.
Do not leave the victim unattended.
Get medical attention immediately.

If inhaled : If unconscious, place in recovery position and seek medical advice.
If symptoms persist, call a physician.

In case of skin contact : Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.
Wash off immediately with plenty of water for at least 15 minutes.
If skin irritation persists, call a physician.
Remove contaminated clothing and shoes.
Wash contaminated clothing before reuse.

In case of eye contact : Small amounts splashed into eyes can cause irreversible

tissue damage and blindness.
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Continue rinsing eyes during transport to hospital.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.
Never give anything by mouth to an unconscious person.
DO NOT induce vomiting unless directed to do so by a physician or poison control center.
Take victim immediately to hospital.
Do not give milk or alcoholic beverages.

Most important symptoms and effects, both acute and delayed : Effects are immediate and delayed.
Symptoms may include blistering, irritation, burns, and pain.
Effects are dependent on exposure (dose, concentration, contact time).
Causes severe skin burns and eye damage.
Review section 2 of SDS to see all potential hazards.

Notes to physician : Treat symptomatically. Symptoms may be delayed.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Dry chemical
Water spray jet
Alcohol-resistant foam
Carbon dioxide (CO2)

Unsuitable extinguishing media : High volume water jet

Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : Carbon dioxide (CO2)
Carbon monoxide
Smoke

Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Standard procedure for chemical fires.

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Use personal protective equipment.
Environmental precautions	:	Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains, inform respective authorities.
Methods and materials for containment and cleaning up	:	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling	:	Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Do not breathe vapours or spray mist. Take precautionary measures against static discharges. Provide sufficient air exchange and/or exhaust in work rooms. Dispose of rinse water in accordance with local and national regulations.
Conditions for safe storage	:	Keep container tightly closed in a dry and well-ventilated place. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.
Materials to avoid	:	Store and keep away from, oxidizing agents and acids.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
2-butoxyethanol	111-76-2	TWA	20 ppm	ACGIH
		TWA	5 ppm 24 mg/m3	NIOSH REL
		TWA	50 ppm 240 mg/m3	OSHA Z-1
		TWA	25 ppm 120 mg/m3	OSHA P0
		PEL	20 ppm 97 mg/m3	CAL PEL
sodium hydroxide	1310-73-2	C	2 mg/m3	ACGIH

		C	2 mg/m3	NIOSH REL
		TWA	2 mg/m3	OSHA Z-1
		C	2 mg/m3	OSHA P0
		C	2 mg/m3	CAL PEL

Biological occupational exposure limits

Component	CAS-No.	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
2-BUTOXYETHANOL	111-76-2	Butoxyacetic acid (BAA)	Urine	End of shift (As soon as possible after exposure ceases)	200.mg/g Creatinine	ACGIH BEI

Engineering measures : effective ventilation in all processing areas

Personal protective equipment

Respiratory protection : Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

Hand protection
Material : Protective gloves
Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye protection : Access to clean water to rinse eyes must be available, options include: eye wash stations or showers, or eye wash bottles with pure water.
Tightly fitting safety goggles
Wear face-shield and protective suit for abnormal processing problems.

Skin and body protection : Impervious clothing
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures : When using do not eat or drink.
When using do not smoke.
Wash hands before breaks and at the end of workday.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Colour : purple

Odour : ether-like

Odour Threshold : No data available

pH	:	13.5
Melting point/freezing point	:	No data available
Boiling point	:	98.9 °C
Flash point	:	does not flash
Evaporation rate	:	1
Upper explosion limit	:	No data available
Lower explosion limit	:	No data available
Vapour pressure	:	not determined
Relative vapour density	:	No data available
Density	:	1.0230 g/cm3
Solubility(ies)		
Water solubility	:	soluble
Solubility in other solvents	:	not determined
Partition coefficient: n-octanol/water	:	No data available
Auto-ignition temperature	:	not determined
Thermal decomposition	:	No data available
Viscosity		
Viscosity, kinematic	:	6.6 mm2/s (20 °C)

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	Stable
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reactions	:	No decomposition if stored and applied as directed.
Conditions to avoid	:	Heat, flames and sparks.
Incompatible materials	:	Acids Oxidizing agents This product contains sodium hydroxide or potassium hydroxide that may corrode some soft metals and may react with tin, zinc, aluminum to form hydrogen gas.
Hazardous decomposition products	:	Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

SECTION 11. TOXICOLOGICAL INFORMATION

Potential Health Effects

Aggravated Medical Condition	:	None known.
Symptoms of Overexposure	:	Effects are immediate and delayed. Symptoms may include blistering, irritation, burns, and pain. Effects are dependent on exposure (dose, concentration, contact time). Causes severe skin burns and eye damage. Review section 2 of SDS to see all potential hazards. Treat symptomatically. Symptoms may be delayed.

Carcinogenicity:

IARC	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
ACGIH	Confirmed animal carcinogen with unknown relevance to humans 2-butoxyethanol 111-76-2
OSHA	No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.
NTP	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Acute toxicity

Product:

Acute oral toxicity	:	Acute toxicity estimate : > 5,000 mg/kg Method: Calculation method
Acute inhalation toxicity	:	Acute toxicity estimate : > 200 mg/l Exposure time: 4 h Test atmosphere: vapour Method: Calculation method
Acute dermal toxicity	:	Acute toxicity estimate : > 5,000 mg/kg Method: Calculation method

Components:

Alcohols, C9-11, ethoxylated:

Acute oral toxicity	:	LD50 Oral Rat: 1,400 mg/kg

2-butoxyethanol:

Acute oral toxicity	:	LD50 Oral Rat: 880 mg/kg

Acute dermal toxicity : LD50 Dermal Rabbit: 1,060 mg/kg

sodium hydroxide:
Acute dermal toxicity : Acute toxicity estimate Rabbit: 1,350 mg/kg

Skin corrosion/irritation

Product:

Remarks: Extremely corrosive and destructive to tissue.

Serious eye damage/eye irritation

Product:

Remarks: May cause irreversible eye damage.

Respiratory or skin sensitisation

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

No data available

Reproductive toxicity

No data available

STOT - single exposure

No data available

STOT - repeated exposure

No data available

Aspiration toxicity

No data available

Further information

Product:

Remarks: No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:
sodium hydroxide :

Toxicity to fish	:	LC50 (Gambusia affinis (Mosquito fish)): 125 mg/l Exposure time: 96 h Test Method: static test LC50 (Oncorhynchus tshawytscha (chinook salmon)): 152 mg/l Exposure time: 96 h LC50 (Oncorhynchus mykiss (rainbow trout)): 40 mg/l Exposure time: 48 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 34 - 47 mg/l Exposure time: 48 h EC50 (Crangon crangon (shrimp)): 33 - 100 mg/l Exposure time: 48 h

Persistence and degradability

No data available

Bioaccumulative potential

Product:

Partition coefficient: n-octanol/water	:	Remarks: No data available

Mobility in soil

No data available

Other adverse effects

No data available

Product:

Regulation	40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances
Remarks	This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

Additional ecological information	:	Not applicable

Components:
sodium hydroxide :

Additional ecological information	:	Harmful to aquatic life.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues	:	Do not dispose of waste into sewer. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of in accordance with local regulations.
Contaminated packaging	:	Empty remaining contents. Dispose of as unused product. Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION

Transportation Regulation: 49 CFR (USA):
UN3266, Corrosive liquid, basic, inorganic, n.o.s., (SODIUM HYDROXIDE), 8, II

Transportation Regulation: IMDG (Vessel):
UN3266, CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S., (SODIUM HYDROXIDE), 8, II

Transportation Regulation: IATA (Cargo Air):
UN3266, Corrosive liquid, basic, inorganic, n.o.s., (SODIUM HYDROXIDE), 8, II

Transportation Regulation: IATA (Passenger Air):
UN3266, Corrosive liquid, basic, inorganic, n.o.s., (SODIUM HYDROXIDE), 8, II

Transportation Regulation: TDG (Canada):
UN3266, CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S., (SODIUM HYDROXIDE), 8, II

The product as delivered to the customer conforms to packaging requirements for shipment by road under US Department of Transportation (DOT) regulations. Additional transportation classifications noted above are for reference only, and not a certification or warranty of the suitability of the packaging for shipment under these alternative transport regulations.

SECTION 15. REGULATORY INFORMATION

TSCA list : No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
sodium hydroxide	1310-73-2	1000	*

*: Calculated RQ exceeds reasonably attainable upper limit.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Skin corrosion or irritation
Serious eye damage or eye irritation

SARA 302 : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 : The following components are subject to reporting levels established by SARA Title III, Section 313:

2-butoxyethanol	111-76-2	2.9312 %

California Prop. 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

The components of this product are reported in the following inventories:

DSL	All components of this product are on the Canadian DSL
TSCA	On TSCA Inventory

For information on the country notification status for other regions please contact the manufacturer's regulatory group.

Inventory Acronym and Validity Area Legend:

TSCA (USA), DSL (Canada), NDSL (Canada)

SECTION 16. OTHER INFORMATION

Further information

NFPA:

HEALTH	3
FLAMMABILITY	0
INSTABILITY	0
SPECIAL HAZARD.	

0 = not significant, 1 =Slight,
2 = Moderate, 3 = High
4 = Extreme

HMIS III:

HEALTH	3
FLAMMABILITY	1
PHYSICAL HAZARD	0

0 = not significant, 1 =Slight,
2 = Moderate, 3 = High
4 = Extreme, * = Chronic

OSHA - GHS Label Information:

Hazard pictograms :

Corrosion

Signal word : **Danger:**
Hazard statements : Causes severe skin burns and eye damage.
Precautionary statements :

Prevention: Wash skin thoroughly after handling. Wear protective gloves/ protective clothing/ eye protection/ face protection.
Response: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. Wash contaminated clothing before reuse.
Storage: Store locked up.
Disposal: Dispose of contents/container in accordance with local regulation.

Version:	5.1
Revision Date:	10/01/2023
Print Date:	06/03/2024

We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind. The information in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. Users should make their own investigations to determine the suitability and applicability of the information for their particular purposes. This SDS has been prepared by the Compliance Services organization supporting this manufacturer, supplier or distributor.

SAFETY DATA SHEET

This Material Safety Data Sheet meets or exceeds the requirements of the Canadian Controlled Product Regulations (WHMIS)

1. Identification

- **Product Name:** **Ducasol (The Duke)**
- **Product Identifier:** All purpose cleaner
- **Recommended use:** Cleaning, degreasing auto parts
- **Restrictions on use:** Not Known
- **Supplier Details:**

Ducan Industries LTD.
1920 Broadway Street,
Port Coquitlam, BC Canada, V3C 2N1

- **Emergency telephone number and any restrictions on the use of that number, if applicable**: (604) 942-0722

2. Hazard Identification

- **OSHA / HCS Status:** Not Known
- **GHS Classification:**
  - **Classification of the Substance or Mixture:**
    H 314 Contact Hazard - Skin: Skin Corrosion - Sub-category 1A
    H318 Contact Hazard – Eye: Eye Damage - Category 1 – causes serious eye damage

Reproductive Toxicity: Category 2

- **Label Elements:**
  - **Symbol (image) or the name of the symbol :** Corrosive Liquid
    (e.g. , flame, skull and crossbones)

  - **Signal word** Danger
  - **Hazard statement(s) Potential Health Effects**
    Acute effects:
    H314 Causes severe skin burns and eye damage.
  - **Precautionary statement(s):**

Prevention:
P260 Do not breathe mist / vapours / spray.
P264 Wash hands thoroughly after handling.
P280 Wear protective gloves / protective clothing / eye protection / face protection

Response:

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P321 Specific treatment (see First Aid Measures on Safety Data Sheet).

P363 Wash contaminated clothing before re-use.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P310 Immediately call a POISON CENTER or doctor/physician.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Storage:

P405 Store locked up.

P406 Store in corrosive resistant container with a resistant inner liner. Disposal:

P501 Dispose of contents/container in accordance with local/regional/national/international regulations

• **Other hazards which do not result in classification (e.g. molten metal hazard)**

This product is harmful to aquatic life. Avoid release to the environment.

3. Composition / Information on Ingredients

• **Substance:** Mixture

• **Chemical Nature:** Caustic Potash Solution

Component Name	CAS #	Wt%	Hazardous Codes
Potasium Hydroxide	1310 - 58 -3	1 - 5	H302 H314 H318
Glycol Ether EB	111- 76- 2	6 - 10	----
Isopropyl Alcohol 99%	67 - 63 - 0	2 - 4	-----
Tetrapotassium Pyrophosphate	7320 - 34 - 5	2 – 4	-----
Nitrilotriacetic Acid	139 -13 - 9	1 - 2	-----

4. First Aid Measures

• **General Advice:** In case of accident or if you feel unwell, seek medical advice immediately.

• **Eye Contact:** Check for and remove contact lenses, if present and easy to do. Immediately flush eyes with gentle but large stream of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Call a poison center or doctor/physician immediately.

• **Skin Contact:** Remove contaminated clothing and shoes immediately. Wash skin with plenty of water for at least 15 minutes. Wash clothing before reuse. Call a poison center or doctor/physician immediately.

• **Inhalation:** Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. WARNING! It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled or ingested material is toxic, infectious, or corrosive. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with the aid of a

pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a poison center or doctor/physician immediately.

• **Ingestion:** Do not induce vomiting, unless directed to do so by medical personnel. Rinse mouth with water. If vomiting occurs, keep head low so that vomit does not enter lungs. Never give anything by mouth to an unconscious person. Call a poison center or doctor/physician immediately.

• **Most Important Symptoms and Effects, Both Acute and Delayed:** Corrosive. Causes severe burns and tissue damage if swallowed, inhaled, or exposed to the skin or eyes.

• **Protection of First- aiders:** First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists.

• **Note to Physician:** Treat symptomatically and supportively.

5. Fire Fighting Measures

• **Extinguishing Media:**

◦ **Suitable Extinguishing Media:** Not combustible, however, if material is involved in a fire use: Fine water spray, normal foam, dry agent (carbon dioxide, dry chemical powder).

◦ **Hazchem or Emergency Action Code**: 2R

◦ **Specific Hazards Arising from Product:** Non-combustible material. Corrosive, Excessive thermal conditions may cause decomposition and yield potassium oxides. Contact with metals may yield hazardous hydrogen gas.

• **Hazardous Combustion Products:** Carbon monoxide, Carbon dioxide, Potassium oxides, Oxides of phosphorus and nitrogen oxides (NOx)

• **Special Protective Equipment and Precautions for Fire- Fighters:** Not combustible, however following evaporation of aqueous component residual material can decompose if involved in a fire, emitting toxic fumes. Contact with metals may liberate hydrogen gas which is extremely flammable. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to products of decomposition.

6. Accidental Release Measures

• **Personal Precautions, Protective Equipment and Emergency Procedures:**

◦ **For Non-emergency Personnel:** Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Avoid breathing vapor or mist. Provide adequate ventilation.

◦ **For Emergency Responders:** See Section 8 for proper protective equipment to be worn while cleaning an accidental spill.

◦ **Environmental Precautions:** Prevent product from entering sewers, natural waterways, or confined spaces.

• **Methods and Materials for Containment and Cleanup:**

◦ **Small Spill:** Restrict access to area until completion of cleanup. Stop the flow if it can be done safely. For small spills, contain and collect with absorbent.

◦ **Large Spill:** For larger spills, soak up spill with absorbent that does not react with product. Put contaminated material into the proper covered, labeled containers for disposal. Contaminated absorbent may pose the same hazards as the spilled product.

7. Handling and Storage

• Precautions for Safe Handling:

◦ **Protective Measures:** See Section 8 for proper protective equipment to be worn. Avoid contact with eyes, skin and clothing. Only use with adequate ventilation. Keep containers tightly closed while not in use.

◦ **Advice on General Occupational Hygiene:** Avoid inhalation of vapor or mist. Do not swallow. Do not get in eyes. Avoid prolonged or repeated contact with skin. Handle in accordance with good industrial hygiene and safety.

• Conditions for Safe Storage, Including Any Incompatibilities: Store in a dry, ventilated area. Store at 15-25 °C. Store away from heat and incompatible materials (see section 10). Store in original container. Do not store in metallic containers. Keep containers tightly closed and upright. Keep away from food, drink, and animal foodstuffs. Keep out of the reach of children. Comply with all national, state, and local codes pertaining to the storage, handling, dispensing, and disposal of this product.

• Materials to Avoid: Do not store or handle near open flame, heat or other sources of ignition.

8. Exposure Controls / Personal Protection

• Control Parameter, Including Occupational Exposure Limits:

Ingredient Name	Exposure Limits
Potassium Hydroxide	**ACGIH TLV :** 2 mg / m3 Ceil. **OSHA PEL:** 2 mg / m3
Glycol Ether EB	**ACGIH TLV,** TWA: 20 ppm, **OSHA Z-1,**TWA: 50 ppm, 240 mg/m3 **OSHA PO,** TWA: 25 ppm, 120 mg/m3 **NIOSH REL,** TWA: 5 ppm, 24 mg/m3
Isopropyl Alcohol	**CGIH TLV (United States, 3/2012).** TWA: 200 ppm 8 hours. STEL: 400 ppm 15 minutes. **OSHA PEL (United States, 6/2010).** TWA: 400 ppm 8 hours. TWA: 980 mg/m3 8 hours. **NIOSH REL (United States, 1/2013)** TWA: 400 ppm 10 hours. TWA: 980 mg/m3 10 hours. STEL: 500 ppm 15 minutes. STEL: 1225 mg/m3 15 minutes.
Tetrapotassium Pyrophosphate	**OSHA,** TWA: 15 mg/m3 (Total Dust) TWA: 5 mg/m3 (Respirable fraction)

• Appropriate Engineering Controls: Ensure adequate ventilation. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

◦ **Environmental Exposure:** Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

• Individual Protection Measures:

◦ **Hygiene Measures:** Wash hands, forearms and face thoroughly after handling the product, before eating, smoking and using the lavatory and at the end of working period.

◦ **Skin Protection:** Wear appropriate chemical resistant clothing (with long sleeves) and appropriate chemical resistant gloves.

◦ **Eye and Face Protection:** Chemical splash-proof goggles, safety glasses with unperforated side shields. Make sure eyewash stations and safety showers are close to the workstation location.

- **Footwear:** Chemical resistant boots or overshoes.
- **Respiratory Protection:** An air-purifying, NIOSH-approved respirator with appropriate cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Use a positive-pressure, air-supplied respirator if there is any potential for an uncontrolled release, if exposure levels are unknown, or if any other circumstances exist where air-purifying respirators may not provide adequate protection.
- **Other:** Eye wash station should be located near work area.

9. Physical and Chemical Properties

- **Appearance (Physical State, Color):** Blue Clear Liquid
- **Odor:** Alcohol,
- **Odor Threshold:** Not Established
- **pH:** 13.0
- **Melting Point:** Not Applicable
- **Boiling Point:** 97 °C
- **Flammability:** Not Flammable
- **Lower Flammable:** Not Available
- **Higher Flammable:** Not Available
- **Vapour Pressure:** Not established
- **Vapour Density:** Not established
- **Flash point:** Not Applicable
- **Evaporation Rate:** Not established (n-butyl acetate = 1)
- **Decomposition Temperature:** Not applicable.
- **Specific Gravity:** 0.99 g/cm3 Water = 1
- **Partition Coefficient:** Not determined
- **Autoignition temperature:** Not determined
- **Decomposition Temperature:** Not determined
- **Volatiles:** Not determined
- **Viscosity, Kinematic** Not determined
- **Solubility in water:** Soluble
- **Explosive Properties:** Not Explosive
- **Oxidizing Properties:** The product is not classified as oxidizing.

10. Stability and Reactivity

- **Reactivity:** Not Reactive
- **Chemical Stability:** Product is stable to normal heat, light.
- **Possibility of Hazardous Reactions:** Can react with strong oxidizing agents.
- **Conditions to Avoid:** To maintain product effectiveness, avoid excessive heat, open flames.
- **Incompatibility:** Strong oxidizing agents
- **Hazardous Decomposition Products:** Carbon monoxide, Carbon dioxide, Potassium oxide, Oxides of phosphorus, nitrogen oxides (NOx)

11. Toxicological Information

- **Information on Likely Routes of Exposure:** Inhalation, Skin Contact, Ingestion, Eye Contact.
- **Acute Toxicity:**
  - **Product:** Not classified based on available information.
  - **Ingredients:**

Potassium Hydroxide: LD50 Oral 273 mg/m3 Oral

Glycol Ether EB:	LD50 1,414 mg/m3 (guinea pig) LC50 > 3.1 mg/l , > 641 ppm (guinea pig) 1 h Dermal LD50 > 2,000 mg/kg (guinea pig)
Isopropyl Alcohol:	Oral LD50, 5,000 mg/kg (Rat) Dermal LD50, 12,800 mg/kg (Rabbit) Inhalation Gas LC50, 45,248 ppm (Rat)
Tetrapotassium Pyrophosphate:	Skin LD50, 4,640 mg/m3 (Rabbit) Ingestion/Oral LD50, 1,000 mg/m3 (Rabbit)
Nitrilotriacetic Acid:	Oral LD50, 1,100 mg/kg (Rat) Dermal LD50, > 5 mg/kg (Rabbit) Inhalation Gas LC50, > 5 mg/L (Rat)

- **Skin Corrosion / Irritation:**
  - **Product:** Not classified based on available information.
  - **Ingredients:**

Potassium Hydroxide: Category 1 A – Causes severe skin burns and eye damage.
Glycol Ether EB: Causes skin irritation
Isopropyl Alcohol: Mild irritant to skin
Tetrapotassium Pyrophosphate: Causes skin irritation. Irritation is likely to be more severe if the skin is moist or wet.

- **Serious Eye Damage/Eye Irritation:**
  - **Product:** Not classified based on available information.
  - **Ingredients:**

Potassium Hydroxide: Category 1– Causes serious eye damage.
Glycol Ether EB: Causes serious eye irritation
Isopropyl Alcohol: Moderate to severe eye irritation 24 hours 100 mg
Tetrapotassium Pyrophosphate: Causes eye irritation.

- **Respiratory or Skin Sensation:** Negative

- **Germ Cell Mutagenicity:** Not available

- **Carcinogenicity:**
  - **Ingredients:**

Nitrilotriacetic Acid:
IARC (International Agency for Research on Cancer) has listed Group 2B (Possibly Carcinogenic to Humans) for Nitrilotriacetic Acid.
NTP (National Toxicity Program) has listed Nitrilotriacetic Acid as “Reasonably Anticipated” carcinogen.

- **Reproductive Toxicity:** No known significant effects.

- **STOT- Single Exposure:**

Isopropyl Alcohol: Category 3 Narcotic Effects

- **STOT - Repeated Exposure:** Not classified based on available information.

- **Repeated Dose Toxicity:** Not classified based on available information.

- **Aspiration Toxicity:** Not classified based on available information.

• Potential Acute Health Effects:
Isopropyl Alcohol:

Eye Contact: Causes serious eye irritation
Inhalation: Can cause central nervous system (CNS) depression. May cause drowsiness and dizziness.
Skin Contact: Not known significant effects or critical hazards.
Ingestion: Can cause central nervous system (CNS) depression. Irritating to mouth, throat and stomach.

• Symptoms Related to the Physical, Chemical and Toxicological Characteristics:

Eye Contact: Adverse symptoms may include the following: Pain or irritation, watering, redness.
Inhalation: Adverse symptoms may include the following: Nausea or vomiting, headache, drowsiness / fatigue, dizziness / vertigo, unconsciousness.
Skin Contact: No specific data is available.
Ingestion: No specific data is available.

12. Ecological Information

• Ecotoxicity:

◦ **Ingredients:**

Isopropyl Alcohol:

Acute LC50 1,400,000 to 1,950,000 µg/l marine water, 48 hours Cragnon
Acute LC50 4,200 mg/l Fresh water, 96 hours, fish rasbora heteromorpha

Fish Toxicity

◦ **Ingredients:**

Potassium Hydroxide: LC50 Western Mosquitofish (Gambusia affinis): 80 mg/m3, 96 h
Nitrilotriacetic Acid: LC50 > 100 mg/l 96 h Freshwater
EC50 > 100 mg/l 96 h Water Flea

Toxicity to Algae:

◦ **Ingredients:**

Nitrilotriacetic Acid: EC50 > 100 mg/l 72 h Fresh Water Algae

Invertebrate Toxicity:

◦ **Ingredients:**

• Persistence and degradability:
Nitrilotriacetic Acid: Soluble in water Persistence is unlikely based on information available.

• Bioaccumulative Potential:
Biodegradation:

◦ **Ingredients:**

Potassium Hydroxide: Expected to be readily biodegradable.
Glycol Ether EB: 90.4% rapidly degradable. (After 28 days in a ready biodegradable test).
Isopropyl Alcohol: This ingredient has low potential for bioaccumulation. Log Pow 0.05

• Mobility in Soil:
Glycol Ether EB: Not expected to hydrolyze readily.
Nitrilotriacetic Acid: Will likely be mobile in the environment due to water solubility.

• Results of PBT and vPvB assessment half-life: No data available.

• **Other Adverse Effects:** No data available.

13. Disposal Considerations

• **Disposal Method:** Do not empty into drains; dispose of this material and its container in a safe way. To be disposed of as hazardous waste. Disposal should be in accordance with local, state or national legislation.

14. Transport Information

• **UN Number:** UN 1814
• **UN Proper Shipping Name:** Potassium Hydroxide Solution
• **Transport Hazard Class:** 8
• **Packing Group: III**
• **ERG: 154**
• **Environmental Hazards:** See Section 12. Ecological Information
• **Transport in Bulk, If Applicable:** Not Applicable
• **Special Precautions: Transport within user's premises:** Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident and spillage.

15. Regulatory Information

• **Canadian Federal Regulations:**

• **DSL:** All chemical substances in this product comply with the CEPA 1999 and NSNR and are on or exempt from listing on the Canadian Domestic Substances List (DSL).

• **WHMIS classification:** Class D2B Other Toxic Effects, Corrosive

• **U. S. TSCA Inventory Status:** All component of this product are either on the Toxic Substances Control Act (TSCA) inventory list or exempt.

• **SARA 302:** No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

• **SARA 313:** This material does not contain any chemical components with known CAS numbers that exceed threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

16. Other Information

• **NFPA:**
Flammability: 2
Health : 2
Instability : 0
Special Hazard: None

• **Preparation Date:** August 11th, 2016

• **Prepared by:** Ducan Industries 1920 Broadway Street Port Coquitlam B.C. Canada V3C 2N1

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• **Revisions/Review Date:** Not Applicable

Appendix 5: General Construction Best Management Practices for future development.

The proposed rezoning does not include any construction activities; however, the following general Best Management Practices (BMPs) are recommended as part of any future construction or development. These BMPs are general and specific BMPs should be prepared when a detailed development plan is proposed.

Protecting Ecological Features

- Locations of no-go zones, critical root zones of retained trees and vegetation, and sensitive areas are fenced and communicated to all personnel.
- Clearing of trees or shrubs between February 1 and August 15 must be preceded by a nesting bird survey to confirm no active nests will be disturbed (BC Wildlife Act, Section 34 and Federal Migratory Bird Act)
- Avoid placing soil/gravel piles or heavy construction materials around roots of trees to be retained, or otherwise compacting soils or cutting into root zones. Protective tree fencing to be used for delineating protected areas.
- Contact Environmental Monitors immediately with any concerns.

Tree Protection

- ISA Certified Arborist is consulted for construction (e.g. well installation) activities adjacent to trees to be retained along the edge of the well site the trees to be retained will have the limits of their Critical Root Area (CRZ) defined by an ISA certified arborist.
- These CRZs will be separated from the development by robust tree protection fencing (e.g. snow fencing).
- No construction-related material shall be stored within any fenced off area.
- An ISA Certified Arborist should be consulted prior to clearing, blasting, rock breaking or filling (soil or rock) adjacent to the Critical Root Zone (CRZ) (e.g. near the dripline) of trees to be retained to provide tree protection measures to minimize root damage and ensure that they remain viable over the long-term. In future development phases, if new construction is proposed and building location and designs are created, an arborist should be consulted to develop specific measures for any trees to be retained.

Erosion & Sediment Control

During any new construction, the contractor must implement environmental protection measures to ensure that no contaminants, such as spills or sediment-laden water, enter downstream receiving environments. These measures should include:

- Minimize vegetation removal.
- Installation of erosion and sediment control structures (e.g. sediment fence) between the construction are and creek or other water bodies.

- Scheduling excavation activities during dry weather, where possible, and additional care and protection will be required while excavation activities are carried out during wet weather
- Cover exposed soils, if needed (e.g. poly, tarps, mulch, seeding, 'rough and loose' treatment)
- Ensure soil and debris stockpiles are placed away from the SPEAs and sediment-laden water cannot flow into the waterbodies.
- Contact Environmental Monitor immediately with any concerns.

Spill Prevention & Response

- Equipment is inspected for leaks prior to beginning work.
- Spill response kits (capable of addressing the volume of fuel/oils/chemicals on site) are on site when any heavy machinery is working, and operators are trained in their use.
- Equipment refueling is at a designated location and >30 m from aquatic ecosystems.
- Fuel generators must be placed in a spill-proof container (e.g. plastic bin, or other impermeable containment area such as poly-lined depression with berms).
- Store all fuel cans in spill-proof containers (e.g. plastic bin, or other impermeable containment area such as poly-lined depression with berms).
- Concrete wash-water and wet concrete is highly alkaline and toxic to fish and other aquatic organisms. All concrete wash-water from equipment, trucks and/or hand tools needs to be directed to a settling area away from runoff paths to the waterbodies. Freshly poured concrete needs to be covered when rain is forecasted, or runoff needs to be isolated from waterbodies during the curing process.
- In case of spills, the following general steps are recommended:
    - Stop source of spill/prevent further spillage (turn off valves, right overturned containers)
    - Block spill from reaching aquatic (marine or freshwater) environment or pathways to waterbodies
    - Block spill from spreading
    - Call Environmental Monitors
    - Clean up spilled materials
- Contact Environmental Monitors immediately with any concerns.

MALAHAT AUTO WRECKING AND METAL RECYCLING
240 OKOTOKS DRIVE, MALAHAT

SHEET LIST

GENERAL LANDSCAPE NOTES

GENERAL:

1. DRAWINGS AND SPECIFICATIONS ARE TO BE READ IN CONJUNCTION WITH ALL OTHER DRAWINGS/SPECIFICATIONS IN THIS PROJECT SET. ANY DISCREPANCIES AMONG DRAWINGS, SPECIFICATIONS AND INDUSTRY BEST PRACTICES TO BE REPORTED TO THE PROJECT / CONSTRUCTION MANAGER AND THE LANDSCAPE CONSULTANT FOR DIRECTION.
2. ALL LANDSCAPE SPECIFICATION SECTIONS AND DRAWINGS ARE AFFECTED BY REQUIREMENTS OF DIVISION 01 SECTIONS (PROVIDED IN THE PROJECT MANUAL). CONTRACTOR TO FAMILIARIZE THEMSELVES WITH ALL SITE CONDITIONS, INCLUDING THE LIMITS OF WORK AND EXISTING FEATURES TO BE PROTECTED, PRIOR TO SUBMITTING BIDS/QUOTES.
3. CONTRACTOR TO CONFIRM LOCATION AND ELEVATION OF ALL UNDERGROUND UTILITIES/FEATURES PRIOR TO COMMENCING WORK.
4. CONTRACTOR TO TAKE NECESSARY PRECAUTIONS TO PROTECT SITE FEATURES / CONDITIONS, WITHIN AND BEYOND THE LIMITS OF WORK EXISTING AT THE TIME OF CONSTRUCTION. ALL DISTURBED SURFACES, AREAS, STRUCTURES, VEGETATION, HABITAT ETC. ON PUBLIC / PRIVATE PROPERTY TO PROMPTLY BE RESTORED TO EQUAL OR BETTER CONDITION THAN EXISTING AND TO THE SATISFACTION OF THE MUNICIPALITY HAVING JURISDICTION / PROPERTY OWNER.
5. CONTRACTOR TO MAINTAIN THE SITE IN A SAFE AND TIDY CONDITION AT ALL TIMES. DO NOT OBSTRUCT PEDESTRIAN OR VEHICULAR CIRCULATION. DO NOT LEAVE UNPROTECTED HOLES / PITS / OPENINGS OVERNIGHT. ALL EXCESS MATERIALS AND REFUSE TO BE REMOVED FROM THE SITE DAILY UNLESS OTHERWISE DIRECTED BY THE CONSTRUCTION MANAGER.

STANDARDS:

1. ALL WORK ON MUNICIPAL PROPERTY TO CONFORM TO THE STANDARDS OF THE AUTHORITY HAVING JURISDICTION.
2. ALL LANDSCAPE WORK ON THE DEVELOPMENT SITE TO CONFORM TO THE CURRENT EDITION AT TIME OF ISSUE OF THE *Canadian Landscape Standard* (CLS), UNLESS SPECIFICALLY STATED OTHERWISE IN WRITTEN SPECIFICATIONS AND ON DRAWINGS.
3. ALL HARD SURFACE (INCLUDING BUT NOT LIMITED TO PAVING, CONCRETE RETAINING WALLS AND CONCRETE PLANTERS) TO CONFORM TO THE *Master Municipal Construction Documents Association PLATINUM EDITION* (MMCD) AND MMCD SUPPLEMENTAL DRAWINGS AND SPECIFICATIONS, UNLESS SPECIFICALLY STATED OTHERWISE IN WRITTEN SPECIFICATIONS AND ON DRAWINGS.
4. IN CASES OF CONFLICT BETWEEN THE CLS AND THE MMCD, THE MORE STRINGENT REQUIREMENT WILL TAKE PRECEDENCE.
5. LANDSCAPE CONTRACTOR TO BE FAMILIAR WITH MUNICIPAL DEVELOPMENT STANDARDS AND BE IN POSSESSION OF THE CLS AND MMCD MANUALS AND SUPPLEMENTAL DRAWINGS AND SPECIFICATIONS.
6. GROWING MEDIUM AND GROWING MEDIUM TESTING TO CLS Section 5.
7. IRRIGATION DESIGN AND INSTALLATION TO IIABC STANDARDS AND CLS Section 10.

COORDINATION:

1. CONTRACTOR TO COORDINATE INSTALLATION OF IRRIGATION AND ELECTRICAL SLEEVES WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL AND CIVIL WORKS.

SUBMITTALS:

1. CONTRACTOR TO PROVIDE SAMPLES, TEST RESULTS AND SHOP DRAWINGS TO LANDSCAPE CONSULTANT FOR REVIEW AND APPROVAL 45 DAYS PRIOR TO INSTALLATION. SEE ALSO SUBMITTALS TABLE BELOW FOR ADDITIONAL INFORMATION

GROWING MEDIUM TESTING:

1. GROWING MEDIUM TEST RESULTS ARE MANDATORY.
2. TEST RESULTS TO INCLUDE ANALYSIS OF ALL GROWING MEDIUM NUTRIENTS NOTED IN CLS 5.2.7 AND ARE TO BE REPORTED IN THE SAME UNITS AS NOTED IN THAT SECTION.
3. TEST RESULTS TO INCLUDE ANALYSIS OF SOIL TEXTURE, ORGANIC CONTENT AND ACIDITY AS PER CLS 5.3.5 AND BE REPORTED IN THE SAME UNITS AS NOTED IN THAT SECTION (continued next page).

DANACA CONSULTING

GROWING MEDIUM TESTING (continued).
4. TEST RESULTS TO INCLUDE RECOMMENDATIONS FOR AMENDMENTS TO MEET THE REQUIREMENTS FOR EACH GROWING MEDIUM TYPE.
5. RECOMMENDED GROWING MEDIUM TESTING FACILITY: Pacific Soil Analysis Inc. 11720 Voyageur Way, Richmond, BC V6X 3G9 OR APPROVED EQUAL.

MANDATORY INSPECTIONS:
1. CONTRACTOR TO ALERT THE LANDSCAPE CONSULTANT A MINIMUM OF 3 WORKING DAYS PRIOR TO REQUIRED LANDSCAPE INSPECTIONS.

SUBSTITUTIONS:
1. REQUESTS FOR SUBSTITUTIONS TO CONFORM TO THE DIVISION 01 SECTION AND BE SUBMITTED TO THE LANDSCAPE CONSULTANT, THROUGH THE PROJECT ADMINISTRATOR, A MINIMUM OF 45 DAYS PRIOR TO SCHEDULED WORK
2. PLEASE NOTE THAT SOME SUBSTITUTIONS MAY REQUIRE MUNICIPAL APPROVAL.

WARRANTY:
1. CONTRACTOR SHALL WARRANTY ALL WORKMANSHIP AND MATERIALS FOR 1 FULL YEAR FOLLOWING THE DATE OF TOTAL PERFORMANCE AS PER MMCD UNLESS SPECIFICALLY NOTED OTHERWISE. FAULTY MATERIALS AND WORKMANSHIP SHALL BE PROMPTLY REPAIRED / REPLACED TO THE SATISFACTION OF THE LANDSCAPE CONSULTANT.

ENVIRONMENTAL PROTECTION:
1. CONTRACTOR TO INSTALL AND MAINTAIN SEDIMENTATION FILTRATION MEASURES AS REQUIRED FOR LANDSCAPE WORKS TO PREVENT MATERIALS FROM LEAVING THE SITE AND / OR ENTERING STORM DRAINS; STOCKPILED LANDSCAPE MATERIALS ARE TO BE KEPT TARPED.

IRRIGATION – DESIGN/BUILD

IRRIGATION:
1. IT IS THE INTENTION OF THE PROJECT THAT THE LANDSCAPE CONTRACTOR FURNISH A FUNCTIONAL TEMPORARY IRRIGATION SYSTEM AS DESCRIBED ON THE DRAWINGS AND IN THIS SECTION.
2. IT IS THE INTENTION OF THE PROJECT THAT THE LANDSCAPE CONTRACTOR FURNISH A FUNCTIONAL AUTOMATIC IRRIGATION SYSTEM TO ALL ON-SITE AND OFF-SITE LANDSCAPE AREAS AS DESCRIBED ON THE LANDSCAPE DRAWINGS AND IN THIS SECTION.
3. THE SCOPE OF WORK INCLUDES SUPPLY AND INSTALLATION OF BACKFLOW PREVENTER, CONTROLLER, ALL IRRIGATION COMPONENTS, IRRIGATION SLEEVES, 1 YEAR MAINTENANCE/WARRANTY (SEE WRITTEN SPECIFICATIONS AND REQUIREMENTS BELOW) AND AN OPERATION MANUAL.
4. THE IRRIGATION CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR AND ELECTRICAL CONTRACTOR FOR THE INSTALLATION OF IRRIGATION SLEEVES.

MAINTENANCE
1. UPON COMPLETION OF IRRIGATION INSTALLATION, CONTRACTOR TO SUBMIT AS-CONSTRUCTED DRAWINGS, OPERATION AND MAINTENANCE MANUAL, TOOLS PROVIDED BY THE MANUFACTURER AND BASE IRRIGATION SCHEDULE TO IIABC STANDARDS (SECTION 10 OF CLS).
2. INSPECT AND CALIBRATE IRRIGATION SYSTEM AS PER SEASONAL REQUIREMENTS.
3. INSPECT GROWING MEDIUM FREQUENTLY (MINIMUM MONTHLY AND WEEKLY DURING PERIODS OF DROUGHT AND HIGH HEAT) FOR MOISTURE CONTENT AND ADJUST IRRIGATION SCHEDULE AS OFTEN AS REQUIRED TO MAINTAIN THE HEALTH OF THE PLANT MATERIAL DUE TO: RAPID DRAINAGE IN THE GROWING MEDIUM, ABSENCE OF A WATER TABLE, FINITE AMOUNT OF GROWING MEDIUM, AND EXPOSURE TO CLIMATIC CONDITIONS.
4. CONTRACTOR TO COORDINATE WITH THE OWNER'S MAINTENANCE REPRESENTATIVE AND TOGETHER PERFORM ONE WINTERIZATION AND ONE SPRING START-UP DURING THE ONE YEAR WARRANTY PERIOD.

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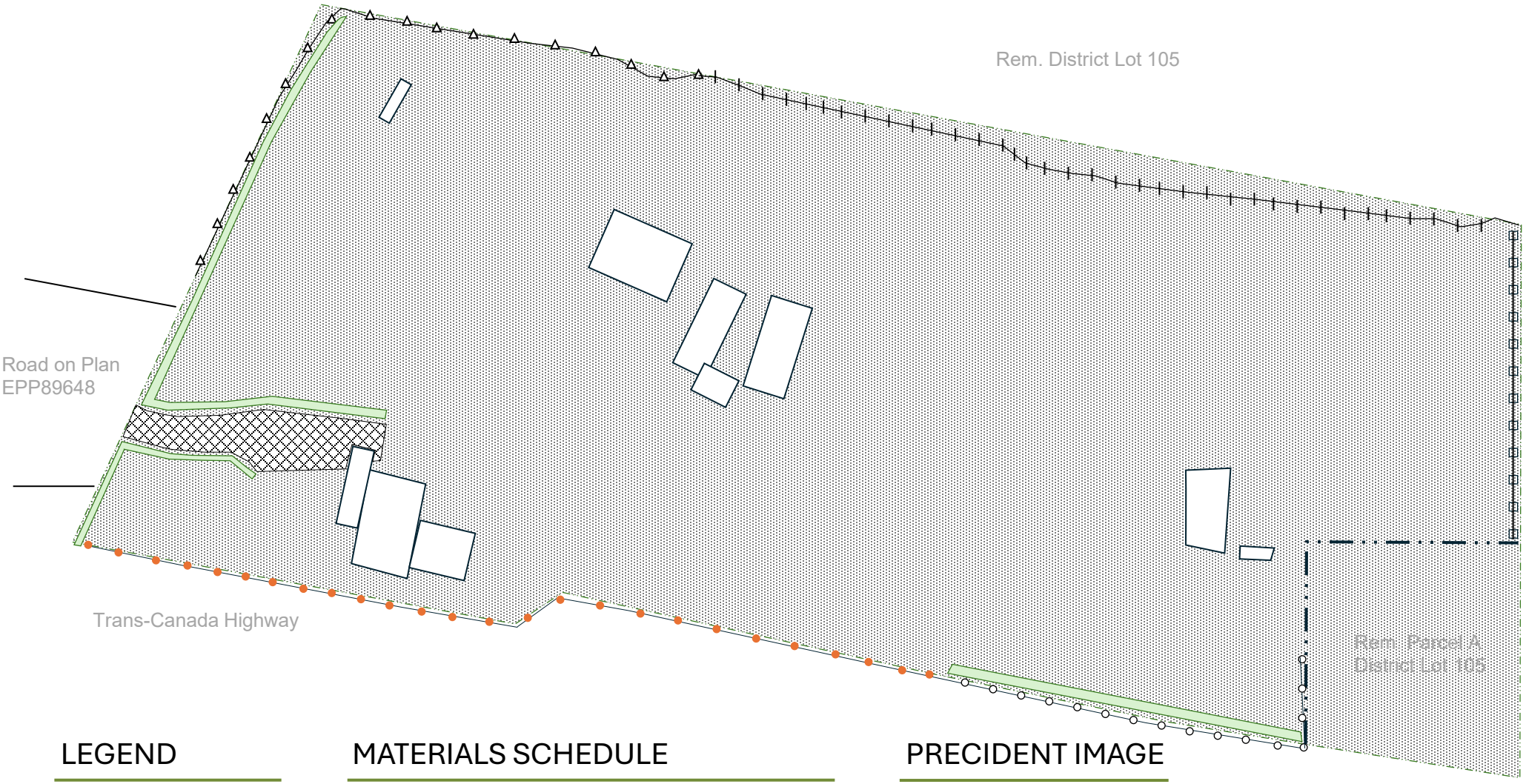

LEGEND

- Property Line
- Building Footprint
- Chain Link Fence
- Metal Fence
- Wire Fence
- Wood Fence

MATERIALS SCHEDULE

SYMBOL	DESCRIPTION	QTY
	ON SITE PLANTING AREA REFER TO PLANTING AND SOIL PLAN	117 m^2
	PRIVACY SLATS	183 m
	PAVING TYPE A: COMPACTED GRAVEL AND NATIVE SOILS	N/A
	PAVING TYPE B: ASPHALT	N/A

PRECIDENT IMAGE

DANACA CONSULTING

2554 Sooke River Road,
Sooke, BC, V9Z 0X8
danacaconsulting@gmail.com
250-588-8208

OWNER/CLIENT:
Jeff Montgomery

PROJECT NAME:
Malahat Auto Wrecking and Metal Recycling

PROJECT ADDRESS:
240 Okotoks Drive, Malahat, BC

DESIGNED AND DRAWN BY:
Laura Hooper

REVISION DATE:
June 11, 2025

SEAL:

NORTH ARROW:

DRAWING TITLE:
Materials Plan

DWG NO: L1.01
SCALE: 1:125

LEGEND

Property Line	
Building Footprint	
Chain Link Fence	
Metal Fence	
Wire Fence	
Wood Fence	

PLANT SCHEDULE

SYMBOL	DESCRIPTION	QTY
●	SNOWBRUSH (*CEANOTHUS VELUTINUS*) FireSmart BC Approved	307

LANDSCAPE PLAN NOTES

LANDSCAPE INSTALLATION NOTES:

- ALL SOFT LANDSCAPE MATERIALS AND INSTALLATION TO CONFORM TO THE CURRENT EDITION OF THE BCSLA/BCLNA B.C. LANDSCAPE STANDARD UNLESS SPECIFICALLY STATED OTHERWISE ON THESE DRAWINGS OR CVRD SPECIFICATION DOCUMENTS.
- ALL HARD SURFACE LANDSCAPE MATERIALS AND INSTALLATION TO CONFORM TO THE CURRENT EDITION OF THE MASTER MUNICIPAL CONSTRUCTION DOCUMENTS (MMCD) UNLESS SPECIFICALLY STATED OTHERWISE ON THE DRAWINGS OR CVRD SPECIFICATION DOCUMENTS.

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DESIGNED AND DRAWN BY:
Laura Hooper

REVISION DATE:
June 11, 2025

SEAL:

NORTH ARROW:

DRAWING TITLE:
Planting Plan

DWG NO: L2.01

SCALE: 1:125

LEGEND

- Property Line
- Building Footprint
- Chain Link Fence
- Metal Fence
- Wire Fence
- Wood Fence

SOIL DEPTH SCHEDULE

SYMBOL	DESCRIPTION	QTY
	600 mm DEPTH GROWING MEDIUM – 2P (CLS) PLANTING AREAS	117 m²

LANDSCAPE PLAN NOTES

GROWING MEDIUM NOTES:

- ORGANIC MATTER CONTENT OF 15% DRY WEIGHT IN PLANTING BEDS
- DEPTH OF 600 MM FOR SHRUB BEDS.
- PH BETWEEN 6.0 TO 7.0.
- SUBSOIL SCARIFIED TO A DEPTH OF MINIMUM 100 MM WITH SOME TOPSOIL TO BE INCORPORATED INTO THE SUBSOIL.
- PLANTING BEDS TO BE MULCHED WITH A MINIMUM OF 50 MM OF ORGANIC MATERIALS.

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DESIGNED AND DRAWN BY:
Laura Hooper

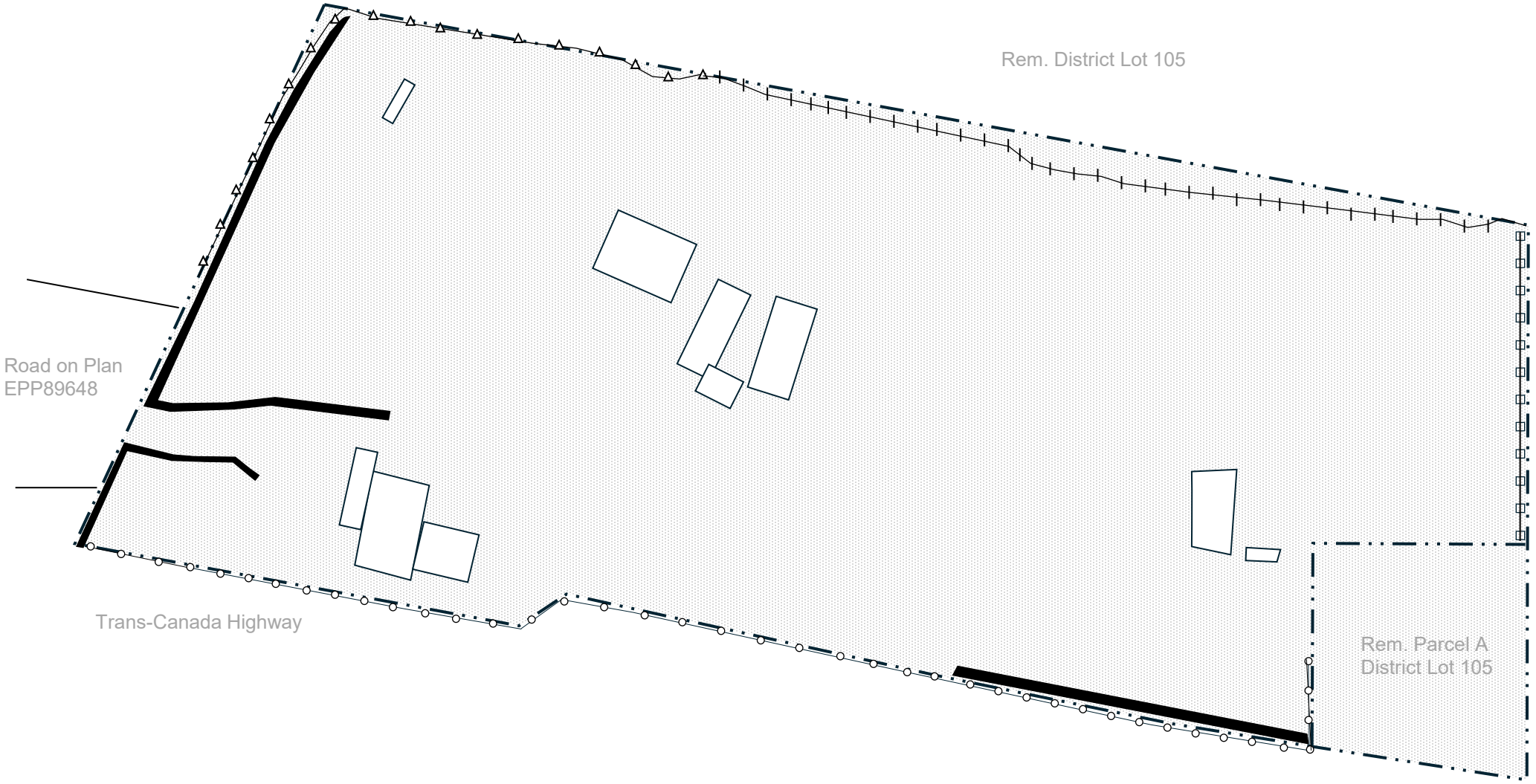
REVISION DATE:
June 11, 2025

SEAL:

NORTH ARROW:

DRAWING TITLE:
Soil Depth Plan

DWG NO: L3.01
SCALE: 1:125



LEGEND

- Property Line
- Building Footprint
- Chain Link Fence
- Metal Fence
- Wire Fence
- Wood Fence

IRRIGATION LEGEND

SYMBOL	DESCRIPTION
■	DRIP IRRIGATION

IRRIGATION PLAN NOTES

IRRIGATION NOTES:

- ALL ON-SITE LANDSCAPE AREAS ARE TO BE IRRIGATED BY A PERMANENT AUTOMATICIRRIGATION SYSTEM TO CVRD STANDARDS FOR A PERIOD OF 2 YEARS.
- AUTOMATIC UNDERGROUND IRRIGATION SYSTEM TO BE DESIGNED BY AN IIABC CERTIFIED IRRIGATION DESIGNER AND INSTALLED TO IIABC STANDARDS.
- DRIP IRRIGATION WITH AUTOMATED CONTROLLER, BLACKFLOW PREVENTION DEVICE AND WINTERIZATION BLOW OUT VALVE.

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REVISION DATE:
June 11, 2025

SEAL:

NORTH ARROW:

DRAWING TITLE:
Irrigation Plan

DWG NO: L4.01

SCALE: 1:125