

## **Appendix H-3: Fumaria Solar Project Permit Applications**





**KITTITAS COUNTY**  
**DEPARTMENT OF PUBLIC WORKS**

**ACCESS AND ADDRESS APPLICATION**

Application for:  Address \$100.00  Access \$270.00  Access and Address \$330.00  
Payment Method:  Check \_\_\_\_\_  Cash

Owner Name Reecer Creek Solar LLC Permit # \_\_\_\_\_  
Mailing Address 6616 223rd Ave NE  
Redmond, WA 98053  
Phone Number 425-681-1205  
Email Address jaypitt@microsoft.com  
  
Applicant Name TUUSO Energy, LLC  
Mailing Address 500 Yale Ave North  
Seattle, WA 98109  
Phone Number 206-303-0198  
Email Address jason.evans@tuusso.com



DATE STAMP

**Request Access and/or Address for:**

Approved Subdivision     Pending Subdivision     Agricultural Access  
 Single Family Dwelling     Commercial Access     Temporary Access  
 Other Photovoltaic solar project

Number of Lots to be served by the Access: 1

Assessor's Map No.: 18-18-09000-0011

Plat Name N/A Lot N/A

Road Name of Access Location: Clarke Road

Distance and Direction to Nearest Intersection or Adjacent Address:  
0.38 miles east of the Faust Rd Intersection

Desired Width of Driveway: 12 FT (Minimum Width Requirement is based on length of driveway)

**CALL BEFORE YOU DIG 1-800-424-5555 OR 811**

Applicant is responsible for calling for underground utility locates 48 hours prior to construction.

- I have attached a site map with details on the access, driveway and any buildings (existing or proposed).
- Applicant will stake along right-of-way to mark desired location of access.
- Applicant agrees to perform the work in compliance with the Kittitas County Road Standards and the requirements on the Access Permit.
- Applicant certifies that the access applied for is only for the purpose indicated.

Applicant declares he/she is the owner or owner's agent of the real property whose access is under construction.  
Applicant Signature \_\_\_\_\_ Date \_\_\_\_\_









# KITTITAS COUNTY COMMUNITY DEVELOPMENT SERVICES

411 NORTH RUBY STREET SUITE #2 ■ ELLENSBURG, WA 98926  
PHONE (509) 962-7506 ■ FAX (509) 962-7682

## General Application for Construction

<b>Assessor Map Number:</b>		<b>Official Use Only:</b>	
(Use <a href="http://www.co.kittitas.wa.us/assessor/property.asp">http://www.co.kittitas.wa.us/assessor/property.asp</a> if needed) Example 21-12-35000-0021		Permit #:	
<u>  1  </u> <u>  7  </u> - <u>  1  </u> <u>  9  </u> - <u>  1  </u> <u>  8  </u> <u>  0  </u> <u>  4  </u> <u>  0  </u> - <u>    </u> <u>    </u> <u>    </u>		Date Applied:	
Short Plat/ Subdivision:		Intake:	
Lot #:			

Site Address: 4561 No. 6 Road and 2100 Tjossem Road, Ellensburg, WA 98926			
Project Description/ Nature of Work: Camas 5-MW Solar Project		Square Foot Total:	
Specific Use of Structure: To generate renewable electricity		No. of Bedrooms: 0	
Heating System Type & Location: N/A	Heating System Fuel Type: N/A	Fireplace Fuel Type: N/A	Hot Water Location & Fuel: N/A
<input type="checkbox"/> New Residential <input type="checkbox"/> Residential Alteration <input type="checkbox"/> Residential Addition <input type="checkbox"/> Foundation	<input type="checkbox"/> New Commercial <input type="checkbox"/> Commercial Alteration <input type="checkbox"/> Commercial Addition <input type="checkbox"/> Tenant Improvement	<input type="checkbox"/> Multi-Family <input type="checkbox"/> Demolition <input type="checkbox"/> Mobile Home <input type="checkbox"/> Accessory Building	<input type="checkbox"/> Accessory Building Alteration <input type="checkbox"/> Agricultural Building <input checked="" type="checkbox"/> Other <b>New Industrial</b>

<b>PROPERTY OWNER:</b>	Valley Land Company, LLC	Day Phone: 509-962-2840
Mailing Address:	1585 Tjossem Road	
City, State, ZIP:	Ellensburg, WA 98926	
E-mail:	jbrunson@fairpoint.net	Cell Phone: 509-899-2840
<b>CONTRACTOR:</b>		Day Phone:
Contact:		
Address, City, State, ZIP:		
E-mail:		Cell Phone:
Contractor License #:		Expiration Date:
<b>ARCHITECT/ ENGINEER/ DESIGNER:</b>		Day Phone:
Contact:		
Address, City, State, ZIP:		
E-mail:		Cell Phone:
Professional License No.:		Expiration Date:

<b>APPLICANT/ AGENT:</b>	Jason Evans	Day Phone: 206-708-6055
Company (if any):	TUUSSO Energy LLC	
Address, City, State, ZIP:	500 Yale Avenue North, Seattle, WA 98109	
E-mail:	Jason.evans@tuusso.com	Cell Phone: 206-303-0198

**This Section To Be Completed For Construction Permits Only**

**Pursuant to RCW 19.27.095 (2)(i-ii) The requirements for a fully completed construction application shall include:**

- i. The name, address, and phone number of the office of the lender administering the interim construction financing, if any: OR
- ii. The name and address of the firm that has issued a payment bond, if any, on behalf of the prime contractor for the protection of the owner, if the bond is for an amount not less than 50% of the total amount of the construction project.

If for any reason the information requested below is not available at the time of application, the applicant shall provide the information as soon as it can be reasonably be obtained.

<input type="checkbox"/> Lending Agency Name:	Phone:
---	--------

Mailing Address:	City:	State:	ZIP:
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I acknowledge by checking this box that this project has no lending agency for construction financing.

<input type="checkbox"/> Bonding Agency Name:	Phone:
---	--------

Mailing Address:	City:	State:	ZIP:
------------------	-------	--------	------

I acknowledge by checking this box that this project has no bonding agency.

**If you are the Owner and Acting As Your Own Contractor, please complete the following declaration:**

I acknowledge that I am applying for a construction permit through the Kittitas County Community Development Services. I also acknowledge that I am not a licensed contractor, specialty or general, or that I am not acting as a contractor and wish to be exempt from the requirements of the Washington State Contractor's Act, per RCW 18.27.090, and will abide by all provisions and conditions of the exemption as stated. I agree that if I use the assistance of any person(s) to provide labor and/or assistance, I will retain only contractors registered and currently licensed as required under the laws of the State of Washington.

I (print name) \_\_\_\_\_ certify under penalty of perjury under the laws of the State of Washington that the foregoing is true and correct.

Owner Signature: \_\_\_\_\_ Date: \_\_\_\_\_

1. All permits shall expire by limitation and be declared void if any one of the following apply:
  - a. Work is not started within 365 days of obtaining a permit.
  - b. Work is abandoned for 365 days or more after beginning work.
  - c. An inspection and approval of work completed has not been performed by Kittitas County Community Development Services for 365 days.
2. The building permit card and approved construction plans shall be kept on the site of work until completion of the project.
3. It shall be the duty of the permit holder or their agent to notify the building official that such work is ready for inspection. It shall be the duty of the person requesting any inspections required by code to provide access to and means for inspection of such work. Work shall not be done beyond the point indicated in each successive inspection without first obtaining the approval of the building official. Any portion that does not comply shall be corrected and such portion shall not be covered or concealed until authorized by the building official.
4. No building or structure shall be used or occupied, and no change in the existing occupancy classification of a building or structure or portion thereof shall be made until the building official has issued a Certificate of Occupancy.
5. Work shall be installed in accordance with the approved construction documents, and any changes made during construction that are not in compliance with the approved construction documents shall be resubmitted for approval as an amended set of construction documents.

I hereby acknowledge that I have read this application and certify under penalty of perjury under the laws of the State of Washington that the above answers are true and complete to the best of my knowledge. I agree to comply with all current codes, laws, regulations and permit requirements related to this project. I hereby certify that I will pay all fees as required by law, including any applicable review fees if I do not purchase the permit. I further agree to, and hereby grant to Kittitas County Community Development Services and Department of Public Works a right to enter onto the premises as described for this permit application, for the purpose of making such inspections and tests as may be required. By signing this application, the Owner certifies that they are the legal owner of the property. All permit fees are non-refundable.

Owners Signature: (Required)	Authorized Agent Signature:
Print Name:	Print Name:
Date:	Date:

# Tuusso Energy: Fumaria Solar Project

## NOI Application

September 5, 2017

### SECTION 1. CONTACT INFO

#### Contact Information

[Section Help](#)

This Notice of Intent application requires the following contact types: **Permittee, Site Owner, and Site Contact.** Please use the table below to fill in your required contacts. You may add additional contact types that are not pre-listed.

*Note: Please remember you are responsible for notifying the Department of Ecology when your contact information changes.*

Contact Type	First Name	Last Name	Organization Name	Action
Permittee	Jason	Evans	Tuusso Energy, LLC	Edit - Remove
Site Contact	Jason	Evans	Tuusso Energy, LLC	Edit - Remove
Site Owner	Jay	Pittenger	Reecer Creek Solar LLC	Edit - Remove

Your mailing address will be standardized against the postal service (USPS) mailing database when you click on the "Update" button. Verification may be necessary.

Honorific:  **Contact Type:** Permittee

**First Name:**  **Last Name:**

Organization Name:  Title:

**Mailing Address:**

**Country:**

**City:**  **State:**  **Zip:**  -

**Email Address:**

**Business Phone:**  -  -  Ext.  **Fax Number:**  -  -

**Cell Phone:**  -  -  **UBI Number:**

Your mailing address will be standardized against the postal service (USPS) mailing database when you click on the "Update" button. Verification may be necessary.

Honorific:  **Contact Type:** Site Owner

**First Name:**  **Last Name:**

Organization Name:  Title:

**Mailing Address:**

**Country:**

**City:**  **State:**  **Zip:**  -

**Email Address:**

**Business Phone:**  -  -  Ext.  **Fax Number:**  -  -

**Cell Phone:**  -  -  **UBI Number:**

## SECTION 2. FACILITY/SITE INFO

### Facility/Site Information

[Section Help](#)

Your facility address will be standardized against the postal service (USPS) mailing database when you click on the "Select facility from map" link. Verification may be necessary.

This Facility/Site's Ownership Type is:

Facility/Site Name:

Street Address:

City:

Zip:

Or

If the site lacks a street address, list its specific location. Example: Intersection of Highway 61 and 34.

Location Description:

### Find my facility/site on a map

Please use the pop up map to complete the latitude, longitude and county information below. Use the pencil tool on the map to locate your facility at the front door or site entrance. *(The map may take a second to pop up.)*

Latitude: 47.058166

Longitude: -120.583634

County: Kittitas

## SECTION 3. SITE/PROJECT INFO

### Project Information

[Section Help](#)

**Type of Construction Activity:** *(check all that apply)*

- Highway or Road (city, county, state)
  Residential
  Commercial
  Industrial
  Utilities
  Other *(specify):*

**Project/Site Size:**  acres

**Soil Disturbance Size:**  acres

The total size of the project site in acres. This is all land that is owned or controlled by the permittee.

Total area of soil disturbance for your site/project over the life of the project. Include grading, equipment staging, excavation, borrow pit, material storage areas, dump areas, haul roads, side-cast areas, off-site construction support areas, and all other soil disturbance acreage associated with the project. (Note: 1 acre = 43,500 ft<sup>2</sup>).

**Estimated Project Start Date:**

**Estimated Project End Date:**

**Will 1,000 cubic yards or more of poured concrete or recycled concrete be used over the life of the project?**  Yes  No

### Site Conditions

**Are you aware of contaminated soils present on the site?**  Yes  No

**Are you aware of groundwater contamination located within the site boundary?**  Yes  No

### Other Permits

Please enter other permits issued by Water Quality for this site.

Permit Number	Action
<input type="text"/>	Add

## SECTION 4. DISCHARGE LOCATION

### Discharge Location/Outfall Information

[Section Help](#)

Will water discharge directly or indirectly (through a storm drain system or roadside ditch) into one or more surface waterbodies (wetlands, creeks, lakes, and all other surface waters and water courses)?

If your project includes dewatering, you must include dewatering plans and discharge locations in your site Stormwater Pollution Prevention Plan.

### Location of Discharge into Surface Waterbody (Outfall Location)

Select the waterbody location (outfall) on the pop up map where the site has the potential to discharge into a waterbody (enter all locations). If you have 100% infiltration, you must select where the infiltration point is as your outfall. *(The map may take a second to pop up.)*

Outfall Number	Outfall Name	Lat/Long	Action
1	Infiltration	47.05817/-120.583629	Edit - Remove

## SECTION 5. NOI INFORMATION

### Stormwater Pollution Prevention Plan (SWPPP)

You must develop a SWPPP prior to starting construction. Do **not** submit your SWPPP with your application. The exception is that Ecology may request a copy of all or part of your SWPPP if you answered yes to the questions under the Site Conditions heading on the Site/Project Info tab.

I have read and agree to the information above

### Best Management Practices (BMPs)

You must use the BMPs listed in the Stormwater Management Manual for Western Washington or the Stormwater Management Manual for Eastern Washington or other manuals approved by Ecology. Alternatively, you may use demonstrably equivalent BMPs on the basis of permit condition S9.C.4. If you intend to use a BMP at your site that is not included in these manuals, but that you believe meets the definition of a demonstrably equivalent BMP, you must notify the appropriate regional office. (See Definitions in the Construction Stormwater General Permit).

*Note that if you receive permit coverage without indicating the preference for a demonstrably equivalent BMP and later decide to use one, you must provide Ecology with notice of the selection of an equivalent BMP no less than 60 days before the intended use of the equivalent BMP.*

<http://www.ecy.wa.gov/programs/wq/stormwater/construction/contacts.html>

I have read and agree to the information above

## SECTION 6. DMR

### Discharge Monitoring Reports (DMRs)

**Permittees must submit monitoring data using Ecology's WQWebDMR program.**

To sign up for WQWebDMR, or to register a new site, go to <http://www.ecy.wa.gov/programs/wq/permits/paris/webdmr.html>. If you are unable to submit your DMRs electronically, you may contact Ecology to request a waiver. Ecology will generally only grant waiver requests to those permittees without internet access. Only a permittee or representative, designated in writing, may request access to or a waiver from WQWebDMR. If you have questions on this process, contact Ecology's WQWebDMR staff at [WQWebPortal@ecy.wa.gov](mailto:WQWebPortal@ecy.wa.gov) or 1-800-633-6193, Option 3 (toll free).

I have read and agree to the information above

## SECTION 7. SEPA

### State Environmental Policy Act (SEPA)

[Section Help](#)

This Notice of Intent (NOI) is incomplete and cannot be approved until the applicable SEPA requirements under Chapter 197-11 WAC are met.

Who is the SEPA lead agency on your site?

Has the SEPA lead agency issued a final decision on your checklist?  No  Yes  Exempt

More SEPA information is available at: <http://www.ecy.wa.gov/programs/sea/sepa/e-review.html>

## SECTION 8. PUBLIC NOTICE

### Public Notice

Section Help

You must publish a public notice at least **once** a week for **two** consecutive weeks with **seven days** between publications, in at least a **single** newspaper of general circulation in the county in which the construction is to take place. Ecology cannot grant permit coverage sooner than the end of the 30-day public comment period, which begins on the date of the **second** public notice.

You may choose to use a system generated public notice and download it below. If not, you need to upload the public notice used.

- I will use the system generated public notice document
- I will upload my own public notice

Tuusso Energy, LLC, Jason Evans, 500 Yale Ave N Seattle, WA 98109, is seeking coverage under the Washington State Department of Ecology's Construction Stormwater NPDES and State Waste Discharge General Permit.  
The proposed project, Fumaria Solar Project, is located at TBD (near 2130 Clarke Rd), Ellensburg, WA 98926 in Kittitas county.  
This project involves 35 acres of soil disturbance for Other (photovoltaic solar panel site) construction activities.  
All discharges and runoff goes to ground water.  
Any persons desiring to present their views to the Washington State Department of Ecology regarding this Application, or interested in Ecology's action on this Application, may notify Ecology in writing no later than 30 days of the last date of publication of this notice. Ecology reviews public comments and considers whether discharges from this project would cause a measurable change in receiving water quality, and, if so, whether the project is necessary and in the overriding public interest according to Tier II antidegradation requirements under WAC 173-201A-320.

Comments can be submitted to:  
Department of Ecology  
Attn: Water Quality Program, Construction Stormwater  
P.O. Box 47696, Olympia, WA 98504-7696

Clicking the text will copy it to your clipboard, if allowed. Open notice in a new window for printing.

To add a public notice to your application, select the newspaper name and enter your public notice dates, then click on the "Add" link. If you do not click the "Add" link, the public notice entry will be lost.

**Note:** This system does not publish your public notice in the newspaper for you. You must submit your public notice text to your selected newspaper.

Newspaper Name	First Notice	Second Notice	Action
Ellensburg - Daily Record	<input type="text"/>	<input type="text"/>	Add

\* First notice date is required.  
\* Second notice date is required.

## SECTION 9. QUESTIONS

### For Questions...

Please contact the following staff per your construction site's location.

If your construction site is located in:	Contact the following staff:
City of Seattle, Kitsap, Pierce, or Thurston County	Josh Klimek 360-407-7451 josh.klimek@ecy.wa.gov
Adams, Asotin, Columbia, Ferry, Franklin, Garfield, Grant, Lincoln, Pend Oreille, Skagit, Snohomish, Spokane, Stevens, Walla Walla, Whatcom, or Whitman County	Shawn Hopkins 360-407-6442 shawn.hopkins@ecy.wa.gov
Benton, Chelan, Clallam, Clark, Cowlitz, Douglas, Grays Harbor, Jefferson, Kittitas, Klickitat, Lewis, Mason, Okanogan, Pacific, Skamania, Wahkiakum, or Yakima County	Joyce Smith 360-407-6858 joyce.smith@ecy.wa.gov
Island, King, or San Juan County	RaChelle Stane 360-407-6556 rachelle.stane@ecy.wa.gov

Tuusso Energy, LLC, Jason Evans, 500 Yale Ave N Seattle, WA 98109, is seeking coverage under the Washington State Department of Ecology's Construction Stormwater NPDES and State Waste Discharge General Permit.

The proposed project, Fumaria Solar Project, is located at TBD (near 2130 Clarke Rd), Ellensburg, WA 98926 in Kittitas county.

This project involves 35 acres of soil disturbance for Other (Solar Panel Farm) construction activities.

All discharges and runoff goes to ground water.

Any persons desiring to present their views to the Washington State Department of Ecology regarding this application, or interested in Ecology's action on this application, may notify Ecology in writing no later than 30 days of the last date of publication of this notice. Ecology reviews public comments and considers whether discharges from this project would cause a measurable change in receiving water quality, and, if so, whether the project is necessary and in the overriding public interest according to Tier II antidegradation requirements under WAC 173-201A-320.

Comments can be submitted to:

Department of Ecology

Attn: Water Quality Program, Construction Stormwater

P.O. Box 47696, Olympia, WA 98504-7696

Construction Stormwater General Permit

# Stormwater Pollution Prevention Plan (SWPPP)

for

**Tuusso Energy: Fumaria Solar Project**

Prepared for:

**The Washington State Department of Ecology  
Central Regional Office**

<b>Permittee / Owner</b>	<b>Developer</b>	<b>Operator / Contractor</b>
Tuusso Energy LLC	Jason Evans	TBD

**TBD (Near 2130 Clarke Rd), Ellensburg, WA 98926**

### **Certified Erosion and Sediment Control Lead (CESCL)**

<b>Name</b>	<b>Organization</b>	<b>Contact Phone Number</b>
TBD	TBD	TBD

### **SWPPP Prepared By**

<b>Name</b>	<b>Organization</b>	<b>Contact Phone Number</b>
Sarah Foster, EI	Encompass Engineering & Surveying	(509)-674-7433

### **SWPPP Preparation Date**

July 28, 2017

### **Project Construction Dates**

<b>Activity / Phase</b>	<b>Start Date</b>	<b>End Date</b>
Phase 1	4/1/2018	10/31/2018

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Appendix/Glossary

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- A. Site Map
- B. BMP Details
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**Correspondence**D. Site Inspection Form

**Site Inspection Form**E. Construction Stormwater General Permit

F. 303(d) List Waterbodies / TMDL Waterbodies Information

G. Contaminated Site Information

**Contaminated Site Information**H. Engineering Calculations

## List of Acronyms and Abbreviations

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<b>Acronym / Abbreviation</b>	<b>Explanation</b>
<b>303(d)</b>	Section of the Clean Water Act pertaining to Impaired Waterbodies
<b>BFO</b>	Bellingham Field Office of the Department of Ecology
<b>BMP(s)</b>	Best Management Practice(s)
<b>CESCL</b>	Certified Erosion and Sediment Control Lead
<b>CO<sub>2</sub></b>	Carbon Dioxide
<b>CRO</b>	Central Regional Office of the Department of Ecology
<b>CSWGP</b>	Construction Stormwater General Permit
<b>CWA</b>	Clean Water Act
<b>DMR</b>	Discharge Monitoring Report
<b>DO</b>	Dissolved Oxygen
<b>Ecology</b>	Washington State Department of Ecology
<b>EPA</b>	United States Environmental Protection Agency
<b>ERO</b>	Eastern Regional Office of the Department of Ecology
<b>ERTS</b>	Environmental Report Tracking System
<b>ESC</b>	Erosion and Sediment Control
<b>GULD</b>	General Use Level Designation
<b>NPDES</b>	National Pollutant Discharge Elimination System
<b>NTU</b>	Nephelometric Turbidity Units
<b>NWRO</b>	Northwest Regional Office of the Department of Ecology
<b>pH</b>	Power of Hydrogen
<b>RCW</b>	Revised Code of Washington
<b>SPCC</b>	Spill Prevention, Control, and Countermeasure
<b>su</b>	Standard Units
<b>SWMMEW</b>	Stormwater Management Manual for Eastern Washington
<b>SWMMWW</b>	Stormwater Management Manual for Western Washington
<b>SWPPP</b>	Stormwater Pollution Prevention Plan
<b>TESC</b>	Temporary Erosion and Sediment Control
<b>SWRO</b>	Southwest Regional Office of the Department of Ecology
<b>TMDL</b>	Total Maximum Daily Load
<b>VFO</b>	Vancouver Field Office of the Department of Ecology
<b>WAC</b>	Washington Administrative Code
<b>WSDOT</b>	Washington Department of Transportation
<b>WWHM</b>	Western Washington Hydrology Model

# 1 Project Information

Project/Site Name: Fumaria Solar Project  
Street/Location: TBD (Near 2130 Clarke Rd)  
City: Ellensburg State: WA Zip code: 98926  
Subdivision: NA  
Receiving waterbody: Privately owned, existing irrigation pond

## 1.1 Existing Conditions

Total acreage (including support activities such as off-site equipment staging yards, material storage areas, borrow areas).

Total acreage: 35.24  
Disturbed acreage: 35.00  
Existing structures: 0  
Landscape: Gently sloped grassland, generally to the southeast. A small portion of the topography: western edge is steep and slopes to the west.  
Drainage patterns: Flows generally south/southeast  
Existing Vegetation: Range/grassland  
Critical Areas (wetlands, streams, high erosion risk, steep or difficult to stabilize slopes): Irrigation ditch along southern boundary

List of known impairments for 303(d) listed or Total Maximum Daily Load (TMDL) for the receiving waterbody: None

Table 1 includes a list of suspected and/or known contaminants associated with the construction activity.

No known contaminants on site or associated with construction activity.

**Table 1 – Summary of Site Pollutant Constituents**

Constituent (Pollutant)	Location	Depth	Concentration
NA	NA	NA	NA

## 1.2 Proposed Construction Activities

Description of site development (example: subdivision):

Photovoltaic solar facility project site with all weather-access roads, inverter stations, and modular trackers with solar panels.

Description of construction activities (example: site preparation, demolition, excavation):

1. Pre-construction meeting
2. Grade and install construction entrance
3. Install perimeter protection

4. Grade and stabilize construction roads
5. Install vibratory driven H piles for wide flange steel beams
6. Install electrical underground and mechanical trackers
7. Install panels
8. Perform any required site restoration.

Description of site drainage including flow from and onto adjacent properties. Must be consistent with Site Map in Appendix A:

Flows from stormwater are principally infiltrated on-site. Any excess runoff from the site during large storm events will follow the existing natural ground slope towards the south of the site. The flow will exit the site via the southeast corner in an existing irrigation ditch and enter an existing irrigation pond.

Description of final stabilization (example: extent of revegetation, paving, landscaping): Existing vegetation will be preserved as much as possible during construction. For any disturbed areas, they will be revegetated with native vegetation.

*Contaminated Site Information:*

Proposed activities regarding contaminated soils or groundwater (example: on-site treatment system, authorized sanitary sewer discharge):

No contamination is known to be on site.

## 2 Construction Stormwater Best Management Practices (BMPs)

The SWPPP is a living document reflecting current conditions and changes throughout the life of the project. These changes may be informal (i.e., hand-written notes and deletions). Update the SWPPP when the CESCL has noted a deficiency in BMPs or deviation from original design.

### 2.1 The 13 Elements

#### 2.1.1 Element 1: Preserve Vegetation / Mark Clearing Limits

List and describe BMPs:

BMP C101: Preserving Natural Vegetation

Natural vegetation will be preserved throughout the site except for those areas requiring grading or incidentally disturbed during construction. Natural vegetation will also be preserved on the small steep slope on the western edge of the site.

Installation Schedules: TBD

Inspection and Maintenance plan: TBD

Responsible Staff: TBD

BMP C102: Buffer Zones

Buffer zones will be established at the limits of the proposed facility to protect existing wetlands and relieve downstream impacts. Existing vegetation will be maintained within the buffer zones throughout construction.

Installation Schedules: TBD

Inspection and Maintenance plan: TBD

Responsible Staff: TBD

#### 2.1.2 Element 2: Establish Construction Access

List and describe BMPs:

BMP C105 – Stabilized Construction Entrance

A single, stabilized construction entrance will be provided at the entrance to the leased land. It will be off of the private driveway that comes off the end of Clarke Rd where vehicles will be entering/exiting, in order to prevent tracking out from the site.

Installation Schedules: TBD

Inspection and Maintenance plan: TBD

Responsible Staff: TBD

### 2.1.3 Element 3: Control Flow Rates

Will you construct stormwater retention and/or detention facilities?

Yes  No

Will you use permanent infiltration ponds or other low impact development (example: rain gardens, bio-retention, porous pavement) to control flow during construction?

Yes  No

Project will not impair or alter downstream conveyance systems. Full dispersion on site will be used to account for increased flows due to proposed impervious areas. Per Chapter 2.2.6 of the SWMMEW there are exemptions for new development when flow control is not required as long as certain conditions are met. Per exemption 1, "Any project able to disperse, without discharging to surface waters, the total 25-year runoff volume for the proposed development condition" is exempt from meeting the flow control requirements. The Fumaria project will use full dispersion as the main way to handle increased flows due to impervious areas. As outlined in SWMMEW Chapter 6.5, BMP F6.42, full dispersion allows up to 10% of the site that is impervious to be characterized as non-effective impervious area by dispersing runoff into the native vegetation area. On the Fumaria site, the impervious areas may conservatively make up to 4.9% of the site while the rest of the site will maintain the existing vegetation or plantings similar to existing vegetation. This is under the 10% threshold, making full dispersion a viable option.

List and describe BMPs:

BMP F6.42- Full dispersion: Runoff from impervious areas within the site will be dispersed within the site utilizing the native vegetation.

BMP C102 – Buffer Zones (See Element 1)

BMP C233 – Silt Fence will also control flow rates from the site during construction (See Element 4).

Installation Schedules: TBD

Inspection and Maintenance plan: TBD

Responsible Staff: TBD

### 2.1.4 Element 4: Install Sediment Controls

List and describe BMPs:

BMP C233- Silt Fence: Silt Fence will surround the site at all areas downslope of all disturbed areas and will be placed upslope of any existing water bodies. The silt fence will also serve to mark the clearing limits per Element 1 above.

Installation Schedules: TBD

Inspection and Maintenance plan: TBD

Responsible Staff: TBD

### 2.1.5 Element 5: Stabilize Soils

#### The Central Basin\*, East of the Cascade Mountain Crest

Season	Dates	Number of Days Soils Can be Left Exposed
During the Dry Season	July 1 – September 30	30 days
During the Wet Season	October 1 – June 30	15 days

\*Note: The Central Basin is defined as the portions of Eastern Washington with mean annual precipitation of less than 12 inches.

Soils must be stabilized at the end of the shift before a holiday or weekend if needed based on the weather forecast.

Anticipated project dates: Start date: 04/01/2018 End date: 10/31/2018

Will you construct during the wet season?

Yes  No

List and describe BMPs:

BMP C123- Plastic Covering: Plastic covering will be used as necessary to protect any soil stockpiles that are produced from construction activity.

Installation Schedules: TBD

Inspection and Maintenance plan: TBD

Responsible Staff: TBD

### 2.1.6 Element 6: Protect Slopes

Will steep slopes be present at the site during construction?

Yes  No

The majority of the site is relatively flat and is not expected to require protection for slopes. There is one small portion of land on the western edge of the site with a steep slope, which will remain undisturbed for the duration of the project.

List and describe BMPs: None

Installation Schedules: NA

Inspection and Maintenance plan: NA

Responsible Staff: NA

### **2.1.7 Element 7: Protect Drain Inlets**

There are no storm drain inlets on the site.

List and describe BMPs: None

Installation Schedules: NA

Inspection and Maintenance plan: NA

Responsible Staff: NA

### **2.1.8 Element 8: Stabilize Channels and Outlets**

Provide stabilization, including armoring material, adequate to prevent erosion of outlets, adjacent stream banks, slopes, and downstream reaches, will be installed at the outlets of all conveyance systems.

As mentioned previously in Element 3, full dispersion will be in effect at the project site and off-site runoff will be minimal. Due to this there will be no on-site conveyance channels or outlets to account for.

List and describe BMPs: None

Installation Schedules: NA

Inspection and Maintenance plan: NA

Responsible Staff: NA

### 2.1.9 Element 9: Control Pollutants

The following pollutants are anticipated to be present on-site: No known pollutants are present on-site.

**Table 2 – Pollutants**

Pollutant (List pollutants and source, if applicable)
NA

List and describe BMPs: None

Installation Schedules: NA

Inspection and Maintenance plan: NA

Responsible Staff: NA

Will maintenance, fueling, and/or repair of heavy equipment and vehicles occur on-site?

Yes  No

Contractor is required to keep a spill kit on site and use spill prevention measures throughout the construction process, in order to address any potential fuel spills or equipment breakdowns.

List and describe BMPs: None

Installation Schedules: NA

Inspection and Maintenance plan: NA

Responsible Staff: NA

Will wheel wash or tire bath system BMPs be used during construction?

Yes  No

List and describe BMPs: Wheel wash is not proposed at this time; however, if construction activities are such that sediment may be tracked with tires off-site a wheel wash will be used and any wastewater generated would be disposed at a local permitted facility.

Installation Schedules: NA

Inspection and Maintenance plan: NA

Responsible Staff: NA

Will pH-modifying sources be present on-site?

Yes  No **If yes, check the source(s).**

**Table 3 – pH-Modifying Sources**

<input checked="" type="checkbox"/> None
--

<input type="checkbox"/>	Bulk cement
<input type="checkbox"/>	Cement kiln dust
<input type="checkbox"/>	Fly ash
<input type="checkbox"/>	Other cementitious materials
<input type="checkbox"/>	New concrete washing or curing waters
<input type="checkbox"/>	Waste streams generated from concrete grinding and sawing
<input type="checkbox"/>	Exposed aggregate processes
<input type="checkbox"/>	Dewatering concrete vaults
<input type="checkbox"/>	Concrete pumping and mixer washout waters
<input type="checkbox"/>	Recycled concrete
<input type="checkbox"/>	Recycled concrete stockpiles
<input type="checkbox"/>	Other (i.e., calcium lignosulfate) [please describe:]

List and describe BMPs: None

Installation Schedules: NA

Inspection and Maintenance plan: NA

Responsible Staff: NA

Concrete trucks must not be washed out onto the ground, or into storm drains, open ditches, streets, or streams. Excess concrete must not be dumped on-site, except in designated concrete washout areas with appropriate BMPs installed.

Will uncontaminated water from water-only based shaft drilling for construction of building, road, and bridge foundations be infiltrated provided the wastewater is managed in a way that prohibits discharge to surface waters?

Yes  No

List and describe BMPs: None

Installation Schedules: NA

Inspection and Maintenance plan: NA

Responsible Staff: NA

### 2.1.10 Element 10: Control Dewatering

No dewatering is proposed or expected to occur as part of the project.

**Table 4 – Dewatering BMPs**

<input type="checkbox"/>	Infiltration
<input type="checkbox"/>	Transport off-site in a vehicle (vacuum truck for legal disposal)
<input type="checkbox"/>	Ecology-approved on-site chemical treatment or other suitable treatment technologies
<input type="checkbox"/>	Sanitary or combined sewer discharge with local sewer district approval (last resort)

<input type="checkbox"/>	Use of sedimentation bag with discharge to ditch or swale (small volumes of localized dewatering)
--------------------------	---

List and describe BMPs: None

Installation Schedules: NA

Inspection and Maintenance plan: NA

Responsible Staff: NA

### **2.1.11 Element 11: Maintain BMPs**

All temporary and permanent Erosion and Sediment Control (ESC) BMPs shall be maintained and repaired as needed to ensure continued performance of their intended function.

Maintenance and repair shall be conducted in accordance with each particular BMP specification (see *Volume II of the SWMMWW* or *Chapter 7 of the SWMMEW*).

Visual monitoring of all BMPs installed at the site will be conducted at least once every calendar week and within 24 hours of any stormwater or non-stormwater discharge from the site. If the site becomes inactive and is temporarily stabilized, the inspection frequency may be reduced to once every calendar month.

All temporary ESC BMPs shall be removed within 30 days after final site stabilization is achieved or after the temporary BMPs are no longer needed.

Trapped sediment shall be stabilized on-site or removed. Disturbed soil resulting from removal of either BMPs or vegetation shall be permanently stabilized.

Additionally, protection must be provided for all BMPs installed for the permanent control of stormwater from sediment and compaction. BMPs that are to remain in place following completion of construction shall be examined and restored to full operating condition. If sediment enters these BMPs during construction, the sediment shall be removed and the facility shall be returned to conditions specified in the construction documents.

### **2.1.12 Element 12: Manage the Project**

The project will be managed based on the following principles:

- Projects will be phased to the maximum extent practicable and seasonal work limitations will be taken into account.
- Inspection and monitoring:
  - Inspection, maintenance and repair of all BMPs will occur as needed to ensure performance of their intended function.
  - Site inspections and monitoring will be conducted in accordance with Special Condition S4 of the CSWGP. Sampling locations are indicated on the [Site Map](#).

Sampling station(s) are located in accordance with applicable requirements of the CSWGP.

- Maintain an updated SWPPP.
  - The SWPPP will be updated, maintained, and implemented in accordance with Special Conditions S3, S4, and S9 of the CSWGP.

As site work progresses the SWPPP will be modified routinely to reflect changing site conditions. The SWPPP will be reviewed monthly to ensure the content is current.

**Table 5 – Management**

<input checked="" type="checkbox"/>	Design the project to fit the existing topography, soils, and drainage patterns
<input checked="" type="checkbox"/>	Emphasize erosion control rather than sediment control
<input checked="" type="checkbox"/>	Minimize the extent and duration of the area exposed
<input checked="" type="checkbox"/>	Keep runoff velocities low
<input checked="" type="checkbox"/>	Retain sediment on-site
<input checked="" type="checkbox"/>	Thoroughly monitor site and maintain all ESC measures
<input type="checkbox"/>	Schedule major earthwork during the dry season
<input type="checkbox"/>	Other (please describe)

### **2.1.13 Element 13: Protect Low Impact Development (LID) BMPs**

There are no existing or proposed LID facilities associated with the project site. Buffer zones will be established during construction to protect off-site wetlands and drainage ditches.

### 3 Pollution Prevention Team

Table 7 – Team Information

<b>Title</b>	<b>Name(s)</b>	<b>Phone Number</b>
<b>Certified Erosion and Sediment Control Lead (CESCL)</b>	TBD	TBD
<b>Resident Engineer</b>	TBD	TBD
<b>Emergency Ecology Contact</b>	TBD	TBD
<b>Emergency Permittee/ Owner Contact</b>	TBD	TBD
<b>Non-Emergency Owner Contact</b>	TBD	TBD
<b>Monitoring Personnel</b>	TBD	TBD
<b>Ecology Regional Office</b>	Central Regional Office	(509)-575-2490

## 4 Monitoring and Sampling Requirements

Monitoring includes visual inspection, sampling for water quality parameters of concern, and documentation of the inspection and sampling findings in a site log book. A site log book will be maintained for all on-site construction activities and will include:

- A record of the implementation of the SWPPP and other permit requirements
- Site inspections
- Stormwater sampling data

File a blank form under Appendix D.

The site log book must be maintained on-site within reasonable access to the site and be made available upon request to Ecology or the local jurisdiction.

Numeric effluent limits may be required for certain discharges to 303(d) listed waterbodies. See CSWGP Special Condition S8 and Section 5 of this template.

### 4.1 Site Inspection

Site inspections will be conducted at least once every calendar week and within 24 hours following any discharge from the site. For sites that are temporarily stabilized and inactive, the required frequency is reduced to once per calendar month.

The discharge point(s) are indicated on the [Site Map](#) (see Appendix A) and in accordance with the applicable requirements of the CSWGP.

### 4.2 Stormwater Quality Sampling

#### 4.2.1 Turbidity Sampling

Requirements include calibrated turbidity meter or transparency tube to sample site discharges for compliance with the CSWGP. Sampling will be conducted at all discharge points at least once per calendar week.

Method for sampling turbidity:

**Table 8 – Turbidity Sampling Method**

<input checked="" type="checkbox"/>	Turbidity Meter/Turbidimeter (required for disturbances 5 acres or greater in size)
<input type="checkbox"/>	Transparency Tube (option for disturbances less than 1 acre and up to 5 acres in size)

The benchmark for turbidity value is 25 nephelometric turbidity units (NTU) and a transparency less than 33 centimeters.

If the discharge's turbidity is 26 to 249 NTU **or** the transparency is less than 33 cm but equal to or greater than 6 cm, the following steps will be conducted:

1. Review the SWPPP for compliance with Special Condition S9. Make appropriate revisions within 7 days of the date the discharge exceeded the benchmark.

2. Immediately begin the process to fully implement and maintain appropriate source control and/or treatment BMPs as soon as possible. Address the problems within 10 days of the date the discharge exceeded the benchmark. If installation of necessary treatment BMPs is not feasible within 10 days, Ecology may approve additional time when the Permittee requests an extension within the initial 10-day response period.
3. Document BMP implementation and maintenance in the site log book.

If the turbidity exceeds 250 NTU or the transparency is 6 cm or less at any time, the following steps will be conducted:

1. Telephone or submit an electronic report to the applicable Ecology Region's Environmental Report Tracking System (ERTS) within 24 hours.
  - **Central Region** (Benton, Chelan, Douglas, Kittitas, Klickitat, Okanogan, Yakima): (509) 575-2490 or [http://www.ecy.wa.gov/programs/spills/forms/nerets\\_online/CRO\\_nerets\\_online.html](http://www.ecy.wa.gov/programs/spills/forms/nerets_online/CRO_nerets_online.html)
  - **Eastern Region** (Adams, Asotin, Columbia, Ferry, Franklin, Garfield, Grant, Lincoln, Pend Oreille, Spokane, Stevens, Walla Walla, Whitman): (509) 329-3400 or [http://www.ecy.wa.gov/programs/spills/forms/nerets\\_online/ERO\\_nerets\\_online.html](http://www.ecy.wa.gov/programs/spills/forms/nerets_online/ERO_nerets_online.html)
  - **Northwest Region** (King, Kitsap, Island, San Juan, Skagit, Snohomish, Whatcom): (425) 649-7000 or [http://www.ecy.wa.gov/programs/spills/forms/nerets\\_online/NWRO\\_nerets\\_online.html](http://www.ecy.wa.gov/programs/spills/forms/nerets_online/NWRO_nerets_online.html)
  - **Southwest Region** (Clallam, Clark, Cowlitz, Grays Harbor, Jefferson, Lewis, Mason, Pacific, Pierce, Skamania, Thurston, Wahkiakum,): (360) 407-6300 or [http://www.ecy.wa.gov/programs/spills/forms/nerets\\_online/SWRO\\_nerets\\_online.html](http://www.ecy.wa.gov/programs/spills/forms/nerets_online/SWRO_nerets_online.html)
2. Immediately begin the process to fully implement and maintain appropriate source control and/or treatment BMPs as soon as possible. Address the problems within 10 days of the date the discharge exceeded the benchmark. If installation of necessary treatment BMPs is not feasible within 10 days, Ecology may approve additional time when the Permittee requests an extension within the initial 10-day response period
3. Document BMP implementation and maintenance in the site log book.
4. Continue to sample discharges daily until one of the following is true:
  - Turbidity is 25 NTU (or lower).
  - Transparency is 33 cm (or greater).
  - Compliance with the water quality limit for turbidity is achieved.
    - 1 - 5 NTU over background turbidity, if background is less than 50 NTU
    - 1% - 10% over background turbidity, if background is 50 NTU or greater
  - The discharge stops or is eliminated.

### 4.2.2 pH Sampling

pH monitoring is required for “Significant concrete work” (i.e., greater than 1000 cubic yards poured concrete over the life of the project). The use of recycled concrete or engineered soils (soil amendments including but not limited to Portland cement-treated base [CTB], cement kiln dust [CKD] or fly ash) also requires pH monitoring.

For significant concrete work, pH sampling will start the first day concrete is poured and continue until it is cured, typically three (3) weeks after the last pour.

For engineered soils and recycled concrete, pH sampling begins when engineered soils or recycled concrete are first exposed to precipitation and continues until the area is fully stabilized.

If the measured pH is 8.5 or greater, the following measures will be taken:

1. Prevent high pH water from entering storm sewer systems or surface water.
2. Adjust or neutralize the high pH water to the range of 6.5 to 8.5 su using appropriate technology such as carbon dioxide (CO<sub>2</sub>) sparging (liquid or dry ice).
3. Written approval will be obtained from Ecology prior to the use of chemical treatment other than CO<sub>2</sub> sparging or dry ice.

Method for sampling pH: None required

**Table 9 – pH Sampling Method**

<input type="checkbox"/>	pH meter
<input type="checkbox"/>	pH test kit
<input type="checkbox"/>	Wide range pH indicator paper

## 5 Discharges to 303(d) or Total Maximum Daily Load (TMDL) Waterbodies

### 5.1 303(d) Listed Waterbodies

Is the receiving water 303(d) (Category 5) listed for turbidity, fine sediment, phosphorus, or pH?

Yes  No

List the impairment(s):

NA

### 5.2 TMDL Waterbodies

Waste Load Allocation for CWSGP discharges:

NA

List and describe BMPs:

NA

Discharges to TMDL receiving waterbodies will meet in-stream water quality criteria at the point of discharge.

The Construction Stormwater General Permit Proposed New Discharge to an Impaired Water Body form is included in Appendix F.

## **6 Reporting and Record Keeping**

### **6.1 Record Keeping**

#### **6.1.1 Site Log Book**

A site log book will be maintained for all on-site construction activities and will include:

- A record of the implementation of the SWPPP and other permit requirements
- Site inspections
- Sample logs

#### **6.1.2 Records Retention**

Records will be retained during the life of the project and for a minimum of three (3) years following the termination of permit coverage in accordance with Special Condition S5.C of the CSWGP.

Permit documentation to be retained on-site:

- CSWGP
- Permit Coverage Letter
- SWPPP
- Site Log Book

Permit documentation will be provided within 14 days of receipt of a written request from Ecology. A copy of the SWPPP or access to the SWPPP will be provided to the public when requested in writing in accordance with Special Condition S5.G.2.b of the CSWGP.

#### **6.1.3 Updating the SWPPP**

The SWPPP will be modified if:

- Found ineffective in eliminating or significantly minimizing pollutants in stormwater discharges from the site.
- There is a change in design, construction, operation, or maintenance at the construction site that has, or could have, a significant effect on the discharge of pollutants to waters of the State.

The SWPPP will be modified within seven (7) days if inspection(s) or investigation(s) determine additional or modified BMPs are necessary for compliance. An updated timeline for BMP implementation will be prepared.

## 6.2 Reporting

### 6.2.1 Discharge Monitoring Reports

**Cumulative soil disturbance is one (1) acre or larger; therefore,** Discharge Monitoring Reports (DMRs) will be submitted to Ecology monthly. If there was no discharge during a given monitoring period the DMR will be submitted as required, reporting “No Discharge”. The DMR due date is fifteen (15) days following the end of each calendar month.

DMRs will be reported online through Ecology’s WQWebDMR System.

### 6.2.2 Notification of Noncompliance

If any of the terms and conditions of the permit is not met, and the resulting noncompliance may cause a threat to human health or the environment, the following actions will be taken:

1. Ecology will be notified within 24-hours of the failure to comply by calling the applicable Regional office ERTS phone number (Regional office numbers listed below).
2. Immediate action will be taken to prevent the discharge/pollution or otherwise stop or correct the noncompliance. If applicable, sampling and analysis of any noncompliance will be repeated immediately and the results submitted to Ecology within five (5) days of becoming aware of the violation.
3. A detailed written report describing the noncompliance will be submitted to Ecology within five (5) days, unless requested earlier by Ecology.

Anytime turbidity sampling indicates turbidity is 250 NTUs or greater, or water transparency is 6 cm or less, the Ecology Regional office will be notified by phone within 24 hours of analysis as required by Special Condition S5.A of the CSWGP.

- **Central Region** at (509) 575-2490 for Benton, Chelan, Douglas, Kittitas, Klickitat, Okanogan, or Yakima County
- **Eastern Region** at (509) 329-3400 for Adams, Asotin, Columbia, Ferry, Franklin, Garfield, Grant, Lincoln, Pend Oreille, Spokane, Stevens, Walla Walla, or Whitman County
- **Northwest Region** at (425) 649-7000 for Island, King, Kitsap, San Juan, Skagit, Snohomish, or Whatcom County
- **Southwest Region** at (360) 407-6300 for Clallam, Clark, Cowlitz, Grays Harbor, Jefferson, Lewis, Mason, Pacific, Pierce, Skamania, Thurston, or Wahkiakum

Include the following information:

1. Your name and / Phone number
2. Permit number
3. City / County of project
4. Sample results
5. Date / Time of call
6. Date / Time of sample

7. Project name

In accordance with Special Condition S4.D.5.b of the CSWGP, the Ecology Regional office will be notified if chemical treatment other than CO<sub>2</sub> sparging is planned for adjustment of high pH water.

**Please see Page G-3-35 for shared SWPPP Appendices**

