INITIAL INVESTIGATION FIELD REPORT

WASHINGTON STATE DEPARTMENT OF ECOLOGY

☐ **Check this box if you have attached any documents to this form (using the paperclip icon on the left).**

ERTS #(s):	N/A
Parcel #(s):	456234
County:	Kittitas
FSID #:	66921
CSID #:	15545
UST #:	N/A

SITE INFORMATION

Site Name (Name over door):	Site Address (including City, State and Zip):	Phone / Email
Roslyn #4 Mine Site	205 East Dakota Avenue, Roslyn WA 98941	none listed
Site Contact, Title, Business: Forterra Roslyn LLC	Site Contact Address (including City, State and Zip): PO Box 4189, Seattle, WA 98194	Phone (206) 905-6957 Email dosterhage@forterra.org
Site Owner, Title, Business: Forterra Roslyn LLC	Site Owner Address (including City, State and Zip): PO Box 4189, Seattle, WA 98194	Phone (206) 905-6957 Email dosterhage@forterra.org
Site Owner Contact, Title, Business: Forterra Roslyn LLC	Site Owner Contact Address (including City, State and Zip): PO Box 4189, Seattle, WA 98194	Phone (206) 905-6957 Email dosterhage@forterra.org
Previous Site Owner(s): New Suncadia LLC	Additional Info (for any Site Information Item):	
Alternate Site Name(s):		

Latitude (Decimal Degrees):	47.220942
Longitude (Decimal Degrees):	120.989753

INSPECTION INFORMATION

☑ Please check this box if there is relevant inspection information, such as data or photos, in an existing site report for this site.

Inspection Conducted? Yes ☐ No ☒	Date/Time:	Entry Notice: Announced ☐	Unannounced ☐
Photographs taken?	Yes ☐	No ☒	Note: Attach photographs or upload to PIMS
Samples collected?	Yes ☐	No ☒	Note: Attach record with media, location, depth, etc.

RECOMMENDATION

No Further Action (Check appropriate box below):		**LIST on Confirmed and Suspected Contaminated Sites List**: ☒
Release or threatened release does not pose a threat	☐	
No release or threatened release	☐	
Refer to program/agency (Name: _____)	☐	
Independent Cleanup Action Completed (contamination removed)	☐	

COMPLAINT (Brief Summary of ERTS Complaint):

Former coal mine site, now being considered for redevelopment as single family housing. Legacy mine use left behind confirmed metals concentration above MTCA in soils and possibly groundwater. Developer would like to enter into a cleanup agreement with Ecology to prepare the site for residential use.

CURRENT SITE STATUS (Brief Summary of why Site is recommended for Listing or NFA):

Confirmed total petroleum hydrocarbon, heavy metal, heavy oil and polycyclic aromatic hydrocarbons in site soils, potential for these in site groundwater. Potential for polycyclic biphenyl contamination in soils and groundwater.

Investigator: Mary Monahan Date Submitted: 3/18/2022

OBSERVATIONS ☐ **Please check this box if you included information on the Supplemental Page at end of report.**

Description (If site visit made, please be sure to include the following: site observations, site features and cover, chronology of events, sources/past practices likely responsible for contamination, presence of water supply wells and other potential exposure pathways, etc.):

All available documents provided by Maul, Foster and Alonghi were reviewed. The list of documents includes a Phase I Environmental Site Assessment, a number of limited sampling reports, a recent technical memo discussing data results and a site development plan provided by a developer. The site has a 120+ year history of industrial use, first as a coal mine, followed by small industrial facilities, all which have the potential to cause releases to the environment.

Soil contaminants of concern include: arsenic, cadmium, lead, nickel, zinc, chromium, mercury, total petroleum hydrocarbons, polycyclic aromatic hydrocarbons, and possibly polycyclic biphenyls.

Groundwater contaminants of concern include: arsenic, chromium, lead and polycyclic aromatic hydrocarbons.

Documents reviewed:

Phase I Environmental Site Assessment, October 2020, including appendices containing previous sampling reports and data

CONTAMINANT GROUP	CONTAMINANT	SOIL	GROUNDWATER	SURFACE WATER	AIR	SEDIMENT	DESCRIPTION
Non-Halogenated Organics	Phenolic Compounds						Compounds containing phenols (Examples: phenol; 4-methylphenol; 2-methylphenol)
	Non-Halogenated Solvents						Organic solvents, typically volatile or semi-volatile, not containing any halogens. To determine if a product has halogens, search HSDB (http://toxnet.nlm.nih.gov/cgi-bin/sis/htmlgen?HSDB) and look at the Chemical/Physical Properties, and Molecular Formula. If there is not a Cl, I, Br, F in the formula, it's not halogenated. (Examples: acetone, benzene, toluene, xylenes, methyl ethyl ketone, ethyl acetate, methanol, ethanol, isopropranol, formic acid, acetic acid, stoddard solvent, Naptha). *Use this when TEX contaminants are present independently of gasoline.*
	Polynuclear Aromatic Hydrocarbons (PAH)	C	S				Hydrocarbons composed of two or more benzene rings.
	Tributyltin						The main active ingredients in biocides used to control a broad spectrum of organisms. Found in antifouling marine paint, antifungal action in textiles and industrial water systems. (Examples: Tributyltin; monobutyltin; dibutyltin)
	Methyl tertiary-butyl ether						MTBE is a volatile oxygen-containing organic compound that was formerly used as a gasoline additive to promote complete combustion and help reduce air pollution.
	Benzene						Benzene
	Other Non-Halogenated Organics						TEX
	Petroleum Diesel						Petroleum Diesel
	Petroleum Gasoline						Petroleum Gasoline
	Petroleum Other	C	S				Oil-range organics
Halogenated Organics (see notes at bottom)	PBDE						Polybrominated di-phenyl ether
	Other Halogenated Organics						Other organic compounds with halogens (chlorine, fluorine, bromine, iodine). search HSDB (http://toxnet.nlm.nih.gov/cgi-bin/sis/htmlgen?HSDB) and look at the Chemical/Physical Properties, and Molecular Formula. If there is a Cl, I, Br, F in the formula, it is halogenated. (Examples: Hexachlorobutadiene; hexachlorobenzene; pentachlorophenol)
	Halogenated solvents						PCE, chloroform, EDB, EDC, MTBE
	Polychlorinated Biphenyls (PCB)	S	S				Any of a family of industrial compounds produced by chlorination of biphenyl, noted primarily as an environmental pollutant that accumulates in animal tissue with resultant pathogenic and teratogenic effects
	Dioxin/dibenzofuran compounds (see notes at bottom)						A family of more than 70 compounds of chlorinated dioxins or furans. (Examples: Dioxin; Furan; Dioxin TEQ; PCDD; PCDF; TCDD; TCDF; OCDD; OCDF). *Do not use for 'dibenzofuran', which is a non-chlorinated compound that is detected using the semivolatile organics analysis 8270*
Metals	Metals - Other	C	C				Cr, Se, Ag, Ba, Cd
	Lead	C	C				Lead
	Mercury	C	S				Mercury
	Arsenic	C	S				Arsenic
Pesticides	Non-halogenated pesticides						Pesticides without halogens (Examples: parathion, malathion, diazinon, phosmet, carbaryl (sevin), fenoxycarb, aldicarb)
	Halogenated pesticides						Pesticides with halogens (Examples: DDT; DDE; Chlordane; Heptachlor; alpha-beta and delta BHC; Aldrin; Endosulfan, dieldrin, endrin)

CONTAMINANT GROUP	CONTAMINANT	SOIL	GROUNDWATER	SURFACE WATER	AIR	SEDIMENT	DESCRIPTION
Other Contaminants	Radioactive Wastes						Wastes that emit more than background levels of radiation.
	Conventional Contaminants, Organic						Unspecified organic matter that imposes an oxygen demand during its decomposition (Example: Total Organic Carbon)
	Conventional Contaminants, Inorganic						Non-metallic inorganic substances or indicator parameters that may indicate the existence of contamination if present at unusual levels (Examples: Sulfides, ammonia)
	Asbestos	S					All forms of Asbestos. Asbestos fibers have been used in products such as building materials, friction products and heat-resistant materials.
	Other Deleterious Substances						Other contaminants or substances that cause subtle or unexpected harm to sediments (Examples: Wood debris; garbage (e.g., dumped in sediments))
	Benthic Failures						Failures of the benthic analysis standards from the Sediment Management Standards.
	Bioassay Failures						For sediments, a failure to meet bioassay criteria from the Sediment Management Standards. For soils, a failure to meet TEE bioassay criteria for plant, animal or soil biota toxicity.
Reactive Wastes	Unexploded Ordinance						Weapons that failed to detonate or discarded shells containing volatile material.
	Other Reactive Wastes						Other Reactive Wastes (Examples: phosphorous, lithium metal, sodium metal)
	Corrosive Wastes						Corrosive wastes are acidic or alkaline (basic) wastes that can readily corrode or dissolve materials they come into contact with. Wastes that are highly corrosive as defined by the Dangerous Waste Regulation (WAC 173-303-090(6)). (Examples: Hydrochloric acid; sulfuric acid; caustic soda)

(fill in contaminant matrix above with appropriate status choice from the key below the table)

Status choices for contaminants	
Contaminant Status	**Definition**
B— Below Cleanup Levels (Confirmed)	The contaminant was tested and found to be below cleanup levels. (Generally, we would not enter each and every contaminant that was tested; for example if an SVOC analysis was done we would not enter each SVOC with a status of "below". We would use this for contaminants that were believed likely to be present but were found to be below standards when tested
S— Suspected	The contaminant is suspected to be present; based on some knowledge about the history of the site, knowledge of regional contaminants, or based on other contaminants known to be present
C— Confirmed Above Cleanup Levels	The contaminant is confirmed to be present above any cleanup level. For example—above MTCA method A, B, or C; above Sediment Quality Standards; or above a presumed site-specific cleanup level (such as human health criteria for a sediment contaminant).
RA— Remediated - Above	The contaminant was remediated, but remains on site above the cleanup standards (for example—capped area).
RB— Remediated - Below	The contaminant was remediated, and no area of the site contains this contaminant above cleanup standards (for example— complete removal of contaminated soils).

Halogenated chemicals and solvents: Any chemical compound with chloro, bromo, iodo or fluoro is halogenated; those with eight or fewer carbons are generally solvents (e.g. halogenated methane, ethane, propane, butane, pentane, hexane, heptane or octane) and may also be used for or registered as pesticides or fumigants. Most are dangerous wastes, either listed or categorical. Organic compounds with more carbons are almost always halogenated pesticides or a contaminant or derivative. Referral to the HSDB is recommended if you are unfamiliar with a chemical name or compound, as it contains useful information about synonyms, uses, trade names, waste codes, and other regulatory information about most toxic or potentially toxic chemicals.

Dibenzodioxins and dibenzofurans are normalized to a combined equivalent toxicity based on 2,3,7,8-tetrachloro-p-dibenzodioxin as set out in WAC 173-340-708(8)(d) and in the Evaluating the Toxicity and Assessing the Carcinogenic Risk of Environmental Mixtures using Toxicity Equivalency Factors Focus Sheet (https://fortress.wa.gov/ecy/clarc/FocusSheets/tef.pdf). Results may be reported as individual compounds and isomers (usually lab results), or as a toxic equivalency value (reports).

FOR ECOLOGY II REVIEWER USE ONLY (For Listing Sites):

How did the Site come to be known: ☑ **Site Discovery (received a report):** 3/11/2022 (Date Report Received)
☐ **ERTS Complaint**
☐ **Other (please explain):** _____

Does an Early Notice Letter need to be sent: ☒ Yes ☐ No
If *No*, please explain why: _____

NAICS Code (if known): _____
Otherwise, briefly explain how property is/was used (i.e., gas station, dry cleaner, paint shop, vacant land, etc.):
_____

Site Unit(s) to be created (Unit Type): ☒ Upland (includes VCP & LUST) ☐ Sediment
If multiple Units needed, please explain why: _____

Cleanup Process Type (for the Unit): ☑ No Process ☐ Independent Action
☐ Voluntary Cleanup Program ☐ Ecology-supervised or conducted
☐ Federal-supervised or conducted

Site Status: ☒ Awaiting Cleanup ☐ Construction Complete – Performance Monitoring
☐ Cleanup Started ☐ Cleanup Complete – Active O&M/Monitoring
☐ No Further Action Required

Model Remedy Used? ☐
If yes, was this a transformer spill? ☐

Site Manager (Default: _____): _____

Specific confirmed contaminants include:

_____ in Soil

_____ in Groundwater

_____ in Other (specify matrix: _____)

Facility/Site ID No. (if known):
66921
Cleanup Site ID No. (if known):
15545

COUNTY ASSESSOR INFO: Please attach to this report a copy of the tax parcel/ownership information for each parcel associated with the site, as well as a parcel map illustrating the parcel boundary and location.

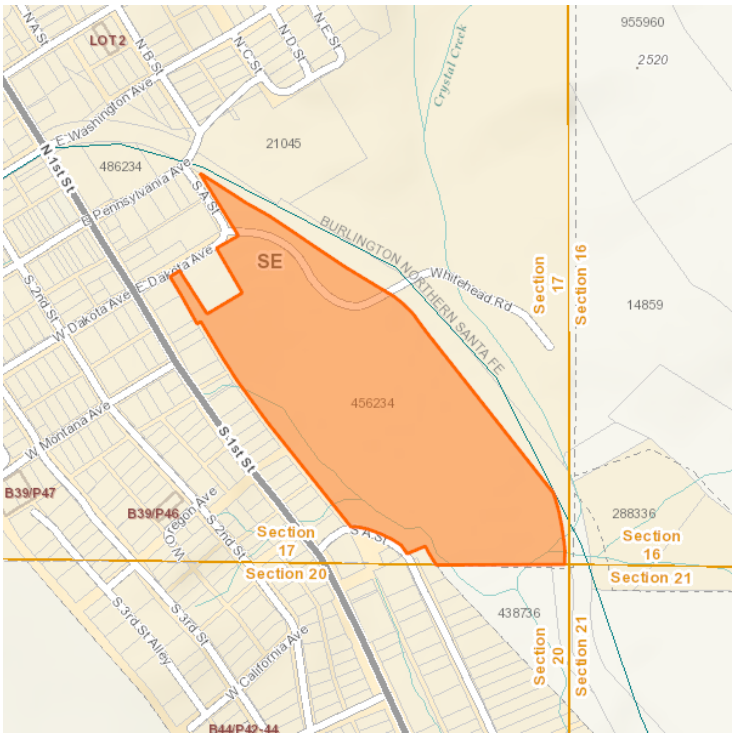
Additional or Supplemental Information from Observations Page

Property Report for Parcel#: 456234

Thursday, March 24, 2022

Parcel Information

Address:	205 E DAKOTA AVE, ROSLYN 98941
Tax Parcel ID:	456234
Map Number:	20-15-17042-0032
Recorded Area:	30.62 a
Owner Name	FORTERRA ROSLYN LLC
Name Cont:	
Mailing Address:	PO BOX 4189
City/State/Zip:	SEATTLE WA 98194-0189



Critical Areas Information

Contains > 30% Slope:	No
PHS Site Name:	N/A
Roof Hazard:	HIGH_EXTREEME HAZARD RATING
Roof Class:	CLASS A
Seismic Category:	D1
Shore Line:	N/A
Wetland Code:	PFOC, R4SBC, R5UBH
DNR Water Type:	Type 2 (F), Type 4 Seasonal (N)
FIRM Zone:	100 YEAR
FEMA Flood Map:	53037C0680D
Coalmine Shaft:	Yes
Airport Zone:	N/A
BPA Right of Way:	-1
Max Elevation:	2229
ISO:	0.061
PG:	136, Engineering is required

Domestic Water Information

Groundwater Permit Required?	Yes, Suitability Map
Qualifying Water Banks:	Big Creek WR, Bourne, Burchak, KittitasCnty(Clennon), Reecer Creek, KittitasCnty(Roth), New Suncadia(Big Creek), New Suncadia (SwaukFirstCreeks), New Suncadia (TeanawayRiver), Roan New Suncadia, Swiftwater Ranch, Trailside, Western Water Partners, Yakima Mitigation Services, NGR

Administrative Information

Zone and Allowed Uses:	
Land Use Category:	Please refer to the city of Roslyn
Commisioner District:	
Voter Precinct:	Roslyn 1, Roslyn Outlying
Hospital District:	HOSPITAL DISTRICT 2
School District:	Cle Elum-Roslyn School District
Irrigation District:	N/A
Weed District:	
Fire District:	CITY OF ROSLYN 57-1, Fire District 7 (Cle Elum)
Cemetery District:	N/A
Court District:	Upper District Court
PUD Comm District:	District 2
Parks and Rec District:	District 1
Wildland Urban Interface:	IR 1
Stock Restricted Area:	Open Range
COE Gas Service Area:	No