Department of Ecology Unmanned Aerial Systems (UAS)  Project Description and Checklist					
Ecology Program	ITSO GIS				
Project Title	Stillaguamish Hydrography Verification				
Ecology Project Manager	Joshua Greenberg	Phone: 360-742-6992			
Ecology Unit Supervisor	Christina Kellum	Phone: 360-489-4118			
Ecology Section Manager	Mark Solie	Phone: 360-742-2953  Phone: 360-515-8593			
Ecology Program Manager	Scott West				
Type of UAS operation (select one)	⊠ Ecology owned and operated □ Contracted □ Volunteer (not an Ecology employee)				
UAS Pilot(s) in Command (if known)	Bradley McMillan  FAA Remote Pilot Certified:   Yes □ No*  Ecology Certified:   Yes □ No*  *if No, certification by both FAA and Ecology is required prior to approval of project	Phone: 564-200-2415			
Reason for using UAS	To collect photographs of locations requiring verification of updated stream locations, culverts, fish passage, etc. The aerial perspective from drone imagery gives a better understanding of topography and how different stream systems interact with one another.				
Project Location	Stillaguamish Watershed: several locations requiring verification of updated stream locations  Area between Verlot and Silverton 48.070556 -121.687222  Downstream of Robe Canyon 48.103056 -121.953889  Jordan 48.147778 -122.035278  Nicks Rd above River Meadows Park 48.175278 -122.051389				
Project Description/Purpose	Ecology has been working with several contractors and local agencies to improve mapping of hydrography in the Stillaguamish watershed. These models are based primarily of Lidar derived surface data. While much of the verification of the data can be made from the desktop using aerial imagery and reviewing the lidar surface, there are some areas that could benefit from field research locally. The UAS imagery will allow us to quickly view some of the more challenging hydrography mapping regions, to determine the accuracy of the models.				
Scheduled Dates of Project	Start Date: 3/28/2023 End Date: 3/28/2023				
Does airspace require additional authorization by FAA or Air Traffic Control (ATC)?	□ Yes ⊠ No				
Will UAS be used regularly during project?	☐ Yes ⊠ No				

Type of data to be collected		<ul> <li>□ Environmental monitoring</li> <li>☑ Mapping/Orthomosaic</li> <li>☑ Site Photos</li> <li>□ Temperature/Thermal imaging</li> </ul>	☐ Structure-from-m ☑ Photography/Vide ☐ Lidar Other Enter here		
☐ Yes ⊠ N/A	If applicable, Ecology has approved a Quality Assurance Project Plan (QAPP) for monitoring projects that include data collection with a UAS				
Project Checklist					
$\boxtimes$	Pilot in command (PIC) has FAA Part 107 certification, and the training necessary to operate the UAS used in this project				
☐ Yes ⊠ N/A	Proper notification and permissions from air traffic control (ATC) were received if UAS flight will occur in airspace class B, C, D, or E airspace.				
$\boxtimes$	PIC has reviewed and understands the Department of Ecology UAS Policy 22-06 (applies to Ecology employees only).				
×	PIC has provided the Project Manager with a copy of the UAS Standard Operating Procedure (SOP).				
$\boxtimes$	PIC has read The National Telecommunications and Information Administration's (NTIA) document "Voluntary Best Practices for UAS Privacy, Transparency, and Accountability"				
Signatures					
Ecology UAS Coordinator: Fredhjille Market			Date 2/27/23		
Ecology Project Manager:			Date 2/27/2023		
Ecology Supervisor or Manager: Christina Kellum			Date 2/27/2023		
Ecology Program Manager: Scott West (approved via email)			Date 3/2/2023		
Ecology Deputy Directory:			Date 3/2/2023		

NOTE: Proper documentation of project and UAS use must be included on Ecology's <u>Drones - Washington State Department of Ecology</u> website after approval of this checklist and project according to Ecology's UAS Policy 22-06

## **ADA Accessibility**

The Department of Ecology is committed to providing people with disabilities access to information and services by meeting or exceeding the requirements of the Americans with Disabilities Act (ADA), Section 504 and 508 of the Rehabilitation Act, and Washington State Policy #188.

To request an ADA accommodation, contact Ecology by phone at 564-200-2415 or email at <a href="mailto:brad.mcmillan@ecy.wa.gov">brad.mcmillan@ecy.wa.gov</a>. For Washington Relay Service or TTY call 711 or 877-833-6341. Visit Ecology's website for more information.