Attachment 6

BLM Consultation Record Re: Upland Restoration

Received January 25, 2022

Alex Wolk

From: Heatley, Kevin B < kheatley@blm.gov>
Sent: Tuesday, January 25, 2022 11:31 AM
To: Diane Barr; Alex Wolk; Dave Coffman

Cc: Limb, Michael C; Hayner, Stephen G; Johnston, Kerry A; Leal, James J; Mata, Jennifer L

Subject: BLM Restoration Metrics - Oregon

Attachments: Use and Occupancy Plan_RestorationMetrics.docx

Follow Up Flag: Follow up Flag Status: Flagged

Diane, Alex, Dave,

We have attached a modified table D.2-1 from the Use & Occupancy Plan to address the expectations that the BLM has for vegetative restoration of the indicated sites. You will note that we have adopted most of the seed mixes and monitoring metrics previously proposed by RES in the RAMP plan. This should enhance consistency in plant community composition and aid in the logistics of restoration. Our ultimate expectation for these sites are healthy, regionally-representative, native plant communities consisting of a minimum of 80% cover of native vegetation and no more than 10% invasive, non-native vegetation.

Please note that, per our discussions on Jan 18th, the BLM will require that gravel fill material placed in staging areas be removed and these locations revegetated consistent with the attached metrics.

In addition, we wish to express concern regarding the proposed final condition of the Parcel B staging and fill areas located immediately to the east of the JC Boyle Dam. While these lands are not under the management of the BLM, they are directly adjacent to our popular Topsy Campground. Based upon our meeting last week, we understand that the current proposal is to leave these sites (approximately 20 acres) unvegetated and covered by inorganic fill. We are deeply concerned that this condition will result in an attractive nuisance that encourages behaviors incompatible with the peaceful enjoyment by the public of the Topsy Campground. We also anticipate that it will become an invasive vectoring source via hydrologic and vehicular transfer of invasive seeds and propagules. This will create potential long-term maintenance issues for the BLM in the canyon. We respectfully request that the KRRC re-evaluate the restoration plans for these locations.

We thank your team for the continued opportunity to work together on this important project and welcome any questions or concerns you may have regarding the restoration metrics.

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Table D.2-1: Project-Related Actions to be Completed on Oregon BLM Land

ID NUMBER	ACTION	DESCRIPTION	TIMING	BLM Vegetation Restoration and Monitoring Metrics
OR-BLM-01	J.C. Boyle Power Canal revegetation	Establish vegetation coverage to reduce invasive species, minimize visual discontinuity, and avoid nuisance behavior.	Post-Drawdown	Topsoil – Add sufficient topsoil (depth 3-8 inches) to seeding and planting areas to provide for an adequate seedbed for native plants to propagate.
				Seed and Planting List - Use a 50/50 combination of the upland pioneer seed list (Table 5-5) and the upland diversity mix (Table 5-8) in the RAMP plan and plant a mix of species from the tree and shrub list on Table 5-9.
				Seeding/Planting Timeline - Fall Oct-Nov (preferred) and Spring March – April
				Invasive Weed Management – Follow goals, objectives, and restoration activities for IEV treatment in Table 3-2 of the RAMP Plan
				Monitoring – Use monitoring metrics in Table 6-11, Table 6-12, Table 6-13, and Table 6-14 of the RAMP Plan. Use monitoring methods in 6.3.2 of the RAMP plan. After year five of post seeding and planting, achieve >80% cover of native vegetation and < 10% cover of invasive nonnative plants.

ID NUMBER	ACTION	DESCRIPTION	TIMING	BLM Vegetation Restoration and Monitoring Metrics
OR-BLM-02	Scour Hole Disposal site revegetation	Establish vegetation coverage on the upper most horizontal surface to reduce invasive species.	Post-Drawdown	Topsoil – Add sufficient topsoil (depth 3-8 inches) to seeding and planting areas to provide for an adequate seedbed for native plants to propagate.
				Seed and Planting List - Use a 50/50 combination of the upland pioneer seed list (Table 5-5) and the upland diversity mix (Table 5-8) in the RAMP plan and plant a mix of species from the tree and shrub list on Table 5-9.
				Seeding/Planting Timeline - Fall Oct-Nov (preferred) and Spring March – April.
				Invasive Weed Management – Follow goals, objectives, and restoration activities for IEV treatment in Table 3-2 of the RAMP Plan
				Monitoring – Use monitoring metrics in Table 6-11, Table 6-12, Table 6-13, and Table 6-14 of the RAMP Plan. Use monitoring methods in 6.3.2 of the RAMP plan. After year five of post seeding and planting, achieve >80% cover of native vegetation and < 10% cover of invasive nonnative plants.

ID NUMBER	ACTION	DESCRIPTION	TIMING	BLM Vegetation Restoration and Monitoring Metrics
OR-BLM-03	J.C. Boyle Powerhouse Access Road alignment at Scour Hole	Rehabilitate roadside swale, place boulders near roads edge, and achieve final stabilization adjacent to swale.	Post-Drawdown	Utilize native seed mix for swale revegetation
OR-BLM-04	J.C. Boyle Penstock hillside area revegetation	Upon removal of penstock, stabilize with coarse native rock or achieve 70% of background vegetation with proper drainage.	Post-Drawdown	Seed and Plant List - Use a 50/50 combination of the upland pioneer seed list (Table 5-5) and the upland diversity mix (Table 5-8) in the RAMP plan and plant a mix of species from the tree and shrub list on Table 5-9. Seeding/Planting Timeline - Fall Oct-Nov (preferred) and Spring March – April Invasive Weed Management - Follow goals, objectives, and restoration activities for IEV treatment in Table 3-2 of the RAMP Plan Monitoring - Use monitoring metrics in Table 6-11, Table 6-12, Table 6-13, and Table 6-14 of the RAMP Plan. Use monitoring methods in 6.3.2 of the RAMP plan. After year five of post seeding and planting, achieve >80% cover of native vegetation and < 10% cover of invasive nonnative plants.

ID NUMBER	ACTION	DESCRIPTION	TIMING	BLM Vegetation Restoration and Monitoring Metrics
OR-BLM-05	Penstock Access Road(s) rehabilitation	Upon exit, remove road cut with existing up and downslope road material better aligning with existing topography; stabilize with coarse native rock or achieve 70% of background vegetation with proper drainage and installation of water bars/tank trap.	Post-Drawdown	Seed List - Use a 50/50 combination of the upland pioneer seed list (Table 5-5) and the upland diversity mix (Table 5-8) in the RAMP plan. Seeding/Planting Timeline - Fall Oct-Nov (preferred) and Spring March – April
				Invasive Weed Management – Follow goals, objectives, and restoration activities for IEV treatment in Table 3-2 of the RAMP Plan
				Monitoring — Use monitoring metrics in Table 6- 11, Table 6-12, Table 6-13, and Table 6-14 of the RAMP Plan. Use monitoring methods in 6.3.2 of the RAMP plan. After year five of post seeding and planting, achieve >80% cover of native vegetation and < 10% cover of invasive non- native plants
OR-BLM-06	Oregon State Route (SR) 66/J.C. Boyle Dam Road improvements	Restore disturbed areas post-dam removal to keep public access to only the original road footprint; create micro-topography on surface to discourage vehicular access & parking , re-plant disturbed areas with vegetation types in adjacent landscape. (See OR-BLM-010a.)	Post-Drawdown	Site Prep and Topsoil - Remove gravel, soil decompaction add topsoil, if needed, for native seeding site prep. Install micro-topographic features to discourage vehicular access. Example - consider use of large woody debris and naturalized rock features. Seed List - Use a 50/50 combination of the upland pioneer seed list (Table 5-5) and the upland diversity mix (Table 5-8) in the RAMP plan

ID NUMBER	ACTION	DESCRIPTION	TIMING	BLM Vegetation Restoration and Monitoring Metrics
				and plant a mix of species from the tree and shrub list on Table 5-9.
				Seeding/Planting Timeline - Fall Oct-Nov (preferred) and Spring March – April
				Invasive Weed Management – Follow goals, objectives, and restoration activities for IEV treatment in Table 3-2 of the RAMP Plan
				Monitoring — Use monitoring metrics in Table 6-11, Table 6-12, Table 6-13, and Table 6-14 of the RAMP Plan. Use monitoring methods in 6.3.2 of the RAMP plan. After year five of post seeding and planting, achieve >80% cover of native vegetation and < 10% cover of invasive nonnative plants.
OR-BLM-07	J.C. Boyle Powerhouse and Tailrace Disposal Site rehabilitation	Establish vegetation coverage to reduce invasive species in filled Powerhouse and Tailrace area and adjacent areas, including riparian buffer at river's edge.	Post-Drawdown	Site prep and Topsoil – Soil decompaction and add sufficient topsoil (depth 3-8 inches) to seeding and planting areas to provide for an adequate seedbed for native plants to propagate.
				Seed List - Use a combination of Table 5-6 in Table 5-7 in the RAMP plan for seeding and plant a mix of riparian species from the tree and shrub list on Table 5-9.

ID NUMBER	ACTION	DESCRIPTION	TIMING	BLM Vegetation Restoration and Monitoring Metrics
				Seeding/Planting Timeline - Fall Oct-Nov (preferred) and Spring March – April. Invasive Weed Management – Follow goals, objectives, and restoration activities for IEV treatment in Table 3-2 of the RAMP Plan Monitoring – Use monitoring metrics in Table 6-11, Table 6-12, Table 6-13, and Table 6-14 of the RAMP Plan. Use monitoring methods in 6.3.2 of the RAMP plan. After year five of post seeding and planting, achieve >80% cover of native vegetation and < 10% cover of invasive nonnative plants.
OR-BLM-08	Staging Area(s) rehabilitation	Achieve final stabilization to restore predevelopment conditions and reduce establishment of invasive species.	Post-Drawdown	Site Prep and Topsoil - Remove gravel, soil decompaction add topsoil, if needed, for native seeding site prep. Seeding/Planting Timeline - Fall Oct-Nov (preferred) and Spring March – April. Seed List - Use a 50/50 combination of the upland pioneer seed list (Table 5-5) and the upland diversity mix (Table 5-8) in the RAMP plan and plant a mix of species from the tree and shrub list on Table 5-9.

ID NUMBER	ACTION	DESCRIPTION	TIMING	BLM Vegetation Restoration and Monitoring Metrics
				Invasive Weed Management – Follow goals, objectives, and restoration activities for IEV treatment in Table 3-2 of the RAMP Plan
				Monitoring – Use monitoring metrics in Table 6-11, Table 6-12, Table 6-13, and Table 6-14 of the RAMP Plan. Use monitoring methods in 6.3.2 of the RAMP plan. After year five of post seeding and planting, achieve >80% cover of native vegetation and < 10% cover of invasive nonnative plants
OR-BLM-09	Invasive Species management	Pretreatment, native seeding, and monitoring of invasive species at Power Canal, Disposal Sites, Access Roads, and Staging Areas.	Pre-Drawdown Drawdown Post-Drawdown	Invasive Weed Management – Follow goals, objectives, and restoration activities for IEV treatment in Table 3-2 of the RAMP Plan
OR-BLM-010a	Oregon SR 66 / J.C. Boyle Dam Access Road SF-299 permit	Complete SF-299 permit obtaining a temporary grant of right-of-way (ROW) for road improvements and access; comply with permit terms; close permit upon completion.	Pre-Drawdown Post-Drawdown	NA NA
OR-BLM-010b	J.C. Boyle Dam Access Road improvements from Oregon SR 66.	Include road improvements in SF-299 application for areas outside FERC Project Boundary; identify base rock source and	Pre-Drawdown Drawdown Post-Drawdown	NA

ID NUMBER	ACTION	DESCRIPTION	TIMING	BLM Vegetation Restoration and Monitoring Metrics
		quantities, widening, tree removal, and maintenance during dam construction.		
OR-BLM-11	J.C. Boyle Power Canal Access Road improvements	Conduct weekly regrading during construction (road to be left in place after construction and reduced to the width of a walking trail).	Pre-Drawdown Drawdown Post-Drawdown	NA
OR-BLM-12	J.C. Boyle Powerhouse Road widening at Scour Hole	Present final design for BLM review and comment; coordinate material use and placement; coordinate tree removal and disposition; provide specifications/construction notes on design sheet; avoid traffic interruptions during rafting access times. (Note this site is within FERC Project Boundary; see OR-BLM-03.)	Pre-Drawdown	NA
OR-BLM-13	Topsy Campground improvements	Remove concrete boat launch, concrete step floating dock, and concrete footing for the plastic dock. Floating dock to be reused and retained onsite for BLM to remove; retain ADA fishing platform as is (do not dismantle.) Achieve final stabilization for above-water (existing reservoir water surface) related land disturbance in accordance with NPDES 1200-C and restore below-water (existing	Pre-Drawdown Drawdown Post-Drawdown	NA

ID NUMBER	ACTION	DESCRIPTION	TIMING	BLM Vegetation Restoration and Monitoring Metrics
		reservoir water surface) areas following drawdown per the RAMP.		
OR-BLM-14	Distribution Line removal	Remove a distribution line between J.C. Boyle Powerhouse Road and Power Canal Access Road that traverses through BLM land. This line is authorized under OROR 024416; no changes to this authorization are required, as it includes other uses that will remain.	Drawdown	NA
OR-BLM-15	Public signage on J.C. Boyle Dam and Powerhouse Access Roads	Install advance signage to notify vehicles using Oregon SR 66 of construction trucks entering/exiting at the intersection.	Pre-Drawdown Drawdown Post-Drawdown	NA