

**HABITAT IMPROVEMENT PROGRAM
(HIP III)
2013/9724
01EOFW00-2013-F-0199**

2014 ANNUAL MONITORING REPORT



201483 Green Island Channel Restoration Project Phase 2



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SUMMARY

This is the second annual monitoring report required under the Habitat Improvement Program III Biological Opinion (HIP III). This report generally summarizes activities completed in calendar year 2014 and reports on the incidental take resulting from those activities and compares them with 2013. Project locations were georeferenced and visual maps were made.

There has been an increase in the number, scope, and complexity of projects across the board. BPA has been successful in meeting incidental take criteria with the exception of turbidity. Several projects have not meet criteria, which was found to be the most stringent amongst all current restoration programmatic. Explanations are given and corrective procedures were followed.

BPA's Environmental Planning and Analysis Group (KEC) has hosted a series of training sessions across the basin to ensure compliance with the HIPIII. Response was overwhelmingly positive. We are optimistic that these trainings shall ensure a higher level of HIPIII compliance.

The Restoration Review Team (RRT) has continued to conduct both functional and technical reviews and solidified their role in the HIPIII process, thus bringing a higher level of accountability in meeting BPA's habitat restoration objectives across the basin. The RRT has been a great forum in communicating with sponsors and finding out what has been working well and what has not.



201452 Tucannon PA 15 LWD Placement

HIPIII PROJECTS AUTHORIZED

During 2014, the HIP III BOs (Biological Opinions) authorized 106 individual projects (Table 1) of these 7 were withdrawn (shown bolded in blue). (Table 2). A majority of the activity categories were low risk (76), 22 were medium risk, and 7 were considered high risk. Refer to Figure 1, Figure 8 and Figure 9 for georeferenced locations of low, medium, and high risk projects.

TABLE 1. HIPIII PROJECT AUTHORIZATIONS 2014

HIP3 NO#	PROJECT TITLE	NMFS Habitat Branch	USFWS Field Office	RISK
201401	Amazon Basin/West Eugene Wetlands	U Willamette	NA	LOW
201402	Isquilktp Creek Watershed Project 2013	Columbia Basin	La Grande	LOW
201403	Rainwater Wildlife Area	Columbia Basin	La Grande	LOW
201404	Yakima Phase II/Huntsville Screens Operations and Maintenance	Columbia Basin	NA	LOW
201405	Klickitat Watershed Enhancement	Columbia Basin	NA	LOW
201406	YTAHP- Cowiche Creek—Cowiche Creek Water Users Association	Columbia Basin	Wenatchee	LOW
201407	Protect and Restore Lapwai Creek Watershed	N Snake	NA	LOW
201408	North Fork John Day Habitat Enhancement Project 2013 (Fox Creek)	S Snake	NA	MED
201409	Grande Ronde Subbasin Restoration 13 (Phase 1)	S Snake	NA	MED
201410	Rock Creek Fish and Habitat Assessment	S Snake	NA	LOW
201411	Lapwai Creek Anadromous Habitat	N Snake	NA	LOW
201412	ODFW Operation and Maintenance	Upper Willamette	Portland	LOW
201413	Asotin Creek Wildlife Mitigation	Columbia Basin	Spokane	LOW
201414	Umatilla Fish Passage Operation and Maintenance	Columbia Basin	NA	LOW
201415	Idaho Department Fish and Game Administration	S Snake	NA	LOW
201416	Water Entity - Water Transaction Program	Columbia Basin	La Grande	LOW
201417	Water Entity - Water Transaction Program	NA	Helena	LOW
201418	YKFP O&M: Lower Yakima - Supplementation Complex	Columbia Basin	NA	LOW
201419	YKFP O&M: Lower Yakima - Supplementation Complex	Columbia Basin	NA	LOW
201420	Sulphur Creek Restoration, Water Conservation and Pipeline Project	N Snake	Chubbock	LOW
201421	Umatilla River Habitat Restoration with Confederated Tribes of the Umatilla Indian Reservation	Columbia Basin	NA	LOW
201422	Hood River Fish Habitat	Columbia Basin	Portland	LOW
201423	Coeur D'Alene Fisheries Habitat Restoration	N Snake	Spokane	LOW
201424	Hangman Creek Wildlife and Fisheries	N Snake	NA	LOW
201425	Wanaket Wildlife Area	Columbia Basin	La Grande	LOW
201426	Idaho Department Fish and Game Operations and Maintenance	S Snake	Chubbock	LOW
201427	Umatilla Hatchery Satellite Facilities Herbicide Use	Columbia Basin	La Grande	LOW
201428	Umatilla Hatchery Herbicide Use	Columbia Basin	Portland	LOW
201429	Shoshone-Bannock Wildlife Mitigation	S Snake	NA	LOW

HIP3 NO#	PROJECT TITLE	NMFS Habitat Branch	USFWS Field Office	RISK
201430	Klickitat Watershed Enhancement	Columbia Basin	Wenatchee	LOW
201431	Shillapoo Wildlife Area	Columbia Basin	Lacey	LOW
201432	Fall Chinook Acclimation – Big Canyon Acclimation site and Sweetwater Compound	N Snake	Boise	LOW
201433	Fall Chinook Acclimation – Captain John Rapids Site	N Snake	Lacey	LOW
201434	Umatilla River Habitat Restoration with Confederated Tribes of the Umatilla Indian Reservation	Columbia Basin	La Grande	LOW
201435	Natural Production Management and Monitoring	Columbia Basin	Bend	LOW
201436	Yankee Fork Restoration: Preacher’s Cove 2014	S Snake	Chubbock	HIGH
201437	YKFP O&M	Columbia Basin	Wenatchee	LOW
201438	Nez Perce Tribal Hatchery O&M	N Snake	Boise	LOW
201439	Sunnyside Wildlife Area	Columbia Basin	Wenatchee	LOW
201440	Isqúultpe Creek Watershed Project 2014	Columbia Basin	La Grande	LOW
201441	Lower Clearwater/Potlatch Watershed	N Snake	NA	LOW
201442	Antoine Creek Diversion Removal	Columbia Basin	Wenatchee	MED
201443	Antoine Creek Culvert Replacement	Columbia Basin	Wenatchee	LOW
201444	Lower Clearwater/Potlatch Watershed	N Snake	NA	LOW
201445	Potlatch River Watershed Restoration	N Snake	NA	LOW
201446	Lower Clearwater and Potlatch Watersheds Habitat Improvements	N Snake	NA	MED
201447	Rock Creek Fish Habitat Enhancement Project (Phase 2)	S Snake	NA	MED
201448	Mill Creek Habitat Restoration	Columbia Basin	NA	MED
201449	NE Oregon Wildlife Project - Precious Lands	S Snake	La Grande	LOW
201450	Keystone to Kiosk RM 0.8-2.3	Columbia Basin	Wenatchee	MED
201451	Entiat Nation Fish Hatchery Phase II	Columbia Basin	Wenatchee	MED
201452	Tucannon (PA 15)	N Snake	Spokane	MED
201453	Tucannon (PA 1 & 3)	N Snake	Spokane	MED
201454	Rock Creek Fish and Habitat Assessment	Columbia Basin	NA	LOW
201455	Yakima Basinwide Tributary Passage and Flow-WE:Y	Columbia Basin	Wenatchee	LOW
201456	Potlatch River Watershed Restoration	N Snake	NA	LOW
201457	Sioux Lane Culvert Replacement	S Snake	Chubbock	LOW
201458	John Day Habitat Enhancement Project	Columbia Basin	La Grande	LOW
201459	Entiat River Side Channel Enhancement RM 1.6-1.7 (Foreman Side Channel)	Columbia Basin	Wenatchee	MED
201460	Hellsgate Winter Range 14	Columbia Basin	Wenatchee	LOW
201461	6-Ranch Habitat Restoration Project	NA	La Grande	HIGH
201462	Hungry Horse Mitigation/Flathead	NA	Helena	LOW
201463	Harrison Side Channel	Columbia Basin	Wenatchee	MED
201464	Yakima Phase II Fish Screen Operations and Maintenance	Columbia Basin	Wenatchee	LOW
201465	Lemhi River Restoration	S Snake	Chubbock	LOW
201466	NPT Resident Fish Substitution	N Snake	Boise	LOW
201467	Lapwai Creek Watershed Restoration	N Snake	Spokane	LOW
201468	Rainwater Wildlife Area	Columbia Basin	La Grande	MED

HIP3 NO#	PROJECT TITLE	NMFS Habitat Branch	USFWS Field Office	RISK
201469	Opal and Trout Creek Fish Passage Improvement	Columbia Basin	NA	MED
201470	John Day Tributary Passage and Flow	Columbia Basin	La Grande	LOW
201471	Wenas Wildlife Refuge	Columbia Basin	Wenatchee	LOW
201472	1890's Vegetation Management	Columbia Basin	Wenatchee	LOW
201473	Eagle Rocks Riparian Vegetation Management	Columbia Basin	Wenatchee	LOW
201474	Umatilla Anadromous Fish Habitat Project - Hoeft Dam Removal	Columbia Basin	NA	MED
201475	Beaver Creek Invasive Species Control	Columbia Basin	Wenatchee	LOW
201476	Tucannon River Riparian Habitat Projects – Project Areas 22, 23, 26, & 40	Columbia Basin	Spokane	MED
201477	Kentch Channel Restoration Floodplain Work and Invasive Species Control	Columbia Basin	La Grande	HIGH
201478	Rock Creek Fish and Habitat Assessment	Columbia Basin	NA	LOW
201479	CHaMP Habitat Monitoring	Columbia Basin	La Grande	LOW
201480	Scotch Creek Wildlife Mitigation	Columbia Basin	NA	LOW
201481	Technical Support for BiOp RM&E Coordinated Assessments	Columbia Basin	Wenatchee	LOW
201482	John Day Tributary Passage and Flow	Columbia Basin	La Grande	LOW
201483	Green Island Channel Restoration Project Phase 2	U Willamette	NA	HIGH
201484	Yakima Basin Side Channels	Columbia Basin	Wenatchee	LOW
201485	ESA Habitat Restoration (Pole Creek)	N Snake	Boise	HIGH
201486	North Fork Toppenish Creek Fish Barrier Removal and Floodplain Reconnection	Columbia Basin	NA	LOW
201487	Lapwai Creek Watershed Restoration	N Snake	Spokane	LOW
201488	Lake Pend Oreille Kokanee Mitigation	NA	Spokane	LOW
201489	Coeur D'Alene Fisheries Habitat Restoration	NA	Spokane	LOW
201490	Natural Production Management and Monitoring - PIT Tag Array	Columbia Basin	Bend	LOW
201491	Logan Valley Wildlife Mitigation	NA	La Grande	LOW
201492	North Fork John Day Habitat Enhancement Project 2013	Columbia Basin	La Grande	LOW
201493	John Day Tributary Passage and Flow	Columbia Basin	NA	MED
201494	Lower Yakima Valley Riparian Wetlands Restoration	Columbia Basin	NA	LOW
201496	Albeni Falls Wildlife Mitigation - Kalispel Tribe	NA	Spokane	LOW
201497	John Day Tributary Passage and Flow Capital – Med Risk, Bettencourt Olsen Diversion Project	Columbia Basin	NA	MED
201498	Yakima Basin Side Channels	Columbia Basin	Wenatchee	MED
201499	Bayhorse Creek Culvert to Bridge Replacement	S Snake	Chubbock	LOW
2014100	Nursery Bridge west bank ladder maintenance, Walla Walla River	Columbia Basin	La Grande	LOW
2014101	Fox Creek Channel	Columbia Basin	La Grande	MED
2014102	Water Entity - Water Transaction Program	Columbia Basin	Portland	LOW
2014104	Nursery Bridge Fish Passage and Channel Stabilization Project	Columbia Basin	La Grande	HIGH
2014105	Pine Creek Beaver Dam Analogs - Pilot	Columbia Basin	NA	MED

HIP3 NO#	PROJECT TITLE	NMFS Habitat Branch	USFWS Field Office	RISK
2014106	Umatilla Anadromous Fish Habitat with ODFW	Columbia Basin	NA	LOW
2014108	White Ditch Piping Project	Columbia Basin	La Grande	LOW
2014110	Lemhi River Restoration	S Snake	Chubbock	MED



201442 Antoine Creek Diversion Removal (Before)



201442 Antoine Creek Diversion Removal (After)

TABLE 2: PROJECT ACTIVITIES (Withdrawn not counted)

Category	Subcategory	ACTIVITIES	2013	2014
1. Fish Passage Restoration. (See Figure 3)				
	A. Profile Discontinuities.			
		a. Dams, Water Control or Legacy Structure Removal.	1	2
		b. Consolidate, or Replace Existing Irrigation Diversions.	3	3
		c. Headcut and Grade Stabilization.	3	6
		d. Low Flow Consolidation.	0	0
		e. Providing Fish Passage at an Existing Facility.	2	6
	B. Transportation Infrastructure.			
		f. Bridge and Culvert Removal or Replacement.	8	11
		g. Bridge and Culvert Maintenance.	0	0
		h. Installation of Fords.	2	0
2. River, Stream, Floodplain, and Wetland Restoration. (See Figure 4)				
		a. Improve Secondary Channel and Wetland Habitats. (Figure 6)	6	11
		b. Set-back or Removal of Existing, Berms, Dikes, and Levees.	2	7
		c. Protect Streambanks Using Bioengineering Methods.	4	8
		d. Install Habitat-Forming Natural Material Instream Structures (Large Wood, Boulders, and Spawning Gravel). (Figure 7)	11	20
		e. Riparian Vegetation Planting.	19	30
		f. Channel Reconstruction.	2	4
3. Invasive and Non-Native Plant Control.				
		a. Manage Vegetation using Physical Controls.	18	32
		b. Manage Vegetation using Herbicides.	39	45
4. Piling Removal.				
			0	0
5. Road and Trail Erosion Control, Maintenance, and Decommissioning.				
		a. Maintain Roads.	2	4
		b. Decommission Roads.	0	3
6. In-channel Nutrient Enhancement.				
			0	0
7. Irrigation and Water Delivery/Management Actions.				
		a. Convert Delivery System to Drip or Sprinkler Irrigation.	3	2
		b. Convert Water Conveyance from Open Ditch to Pipeline	4	5
		c. Convert from Instream Diversions to Groundwater	0	0
		d. Install or Replace Return Flow Cooling Systems.	1	0
		e. Install Irrigation Water Siphon Beneath Waterway.	2	0
		f. Livestock Watering Facilities.	4	8
		g. Install New or Upgrade/Maintain Existing Fish Screens.	3	4
8. Fisheries, Hydrologic, and Geomorphologic Surveys.				
			18	25
9. Special Actions (for Terrestrial Species).				
		a. Install/develop Wildlife Structures.	0	0
		b. Fencing construction for Livestock Control	1	5
		c. Implement Erosion Control Practices.	0	3
		d. Plant Vegetation.	2	6
		e. Tree Removal for LW Projects.	0	3

INCIDENTAL TAKE REPORTING

The NMFS & USFWS HIP III BO defined four categories of incidental take based on the likelihood of adverse effects to ESA-listed species.

“Short-term impacts to water quality (e.g., suspended sediment, temperature, dissolved oxygen demand and contaminants): The total length of stream reach that is modified by construction each year. 90 projects per year that include near or in-water construction is a threshold for reinitiating consultation.”

- 27 projects were implemented in 2014 that involved in-stream/near-stream construction. This was 7 more than was implemented in 2013.

“The visible increase in suspended sediment associated with construction activities.

- a. up to 50 feet from the project area in streams that are 30 feet wide or less;*
 - b. up to 100 feet from the discharge point or nonpoint source of runoff for streams between 30 and 100 feet wide;*
 - c. up to 200 feet from the discharge point or nonpoint source for streams greater than 100 feet wide; and*
 - d. up to 300 feet from the discharge point or nonpoint source for areas subject to tidal or coastal scour.”*
- It is not clear if length of turbidity plume is a reinitiation trigger. The following three projects had turbidity plumes greater than the visible increase distance stated above (Table 3).

TABLE 3: PROJECTS WITH LARGE TURBIDITY PLUMES

HIPIII NO#	PROJECT	Plume Length
201442	Antoine Creek Diversion Removal	1000
Explanation	In Okanogan County, WA. Removal of large structure, plume subsided within 1 hour	
HIPIII NO#	PROJECT	Plume Length
201452	Antoine Creek Culvert Replacement	1000
Explanation	In Okanogan County, WA. Removal of Culvert downstream of bridge, plume subsided within 4 hours	
HIPIII NO#	PROJECT	Plume Length
201452	Tucannon (PA 15)	1000
Explanation	In Columbia County, WA. The project placed 26 log jams and 32 single logs structures, cumulative length of turbidity plume was 1000 feet	

- The following three projects had an increase in turbidity >10% for more than 2 monitoring intervals (Table 4). In all instances the work stopped, additional best management practices (BMP)s were implemented and NMFS was contacted as soon as the EC Lead was notified.

TABLE 4: PROJECTS WITH 2 MONITORING INTERVAL EXCEEDENCES

HIPIII NO#	PROJECT	Plume Length
201474	Umatilla Anadromous Fish Habitat Project - Hoelt Dam Removal	75
Explanation	In Umatilla County, OR. During the installation and removal of coffer dams and associated bypass pipe, there was an exceedance of over 10% occurred for more than 2 monitoring intervals, work was stopped, installation of additional wattles and straw bales and turbid water was pumped into an abandoned ditch. NMFS & USFWS was notified in December 2014.	

HIPIII NO#	PROJECT	Plume Length
201493	John Day Tributary Passage and Flow	100
Explanation	In Grant County, OR. During the placement of rock there was an exceedance of over 10% for 2 monitoring intervals. Work was stopped however erosion control materials were not on-site due to an oversight by the subcontractor, corrective action was taken. Outside of USFWS jurisdiction, NMFS was notified in February 2015.	

HIPIII NO#	PROJECT	Plume Length
201468	Rainwater Wildlife Area	500
Explanation	In Columbia County, WA. Due to an inability to completely seal and isolate the work area there was an exceedance of over 10% for 2 monitoring intervals. The proponent implemented additional BMPs (smaller work area isolations, increasing pump capacity, and discharging outside of the wetted width). NMFS and USFWS was notified in December 2014	

“Short-term impacts to water quality (e.g., due to application of chemical herbicides). Up to 1,000 total riparian acres may be treated in a calendar year under this programmatic consultation.”

TABLE 5: ACRES TREATED WITH HERBICIDE

Acres treated		
	Riparian	Upland
2013	409	2482
2014	449	8282

Refer to Figure 2 for approximate locations of herbicide applications.

“Juvenile fish handling and dewatering during work area isolation. Capture and/or mortality of listed juvenile salmonids during work area isolation is limited to 7500 captured and 375

injured or killed per calendar year. This is further broken down by recovery domain In the Willamette-Lower Columbia (WLC) recovery domain, up to 1,200 juvenile salmonids may be taken and up to 60 may be killed. For the Interior Columbia (IC) recovery domain, 5,925 juvenile fish captured with 296 fish injured or killed per calendar year; and for the Oregon Coast (OC) recovery domain, 375 juvenile fish captured and 19 injured or killed per calendar year.”

- In 2014 there was more than 4 times the amount of fish captured than in 2013, likely due to the increase in number, scope and complexity of the projects. However the incidental take due to fish handling and capture was still substantially below the allowable limits. The extremely low level of mortality <0.3% affirms the competence of our project proponents fish handling.

TABLE 6: 2014 INCIDENTAL TAKE DUE TO FISH HANDLING

Take Category		Allowable Take Limits	2013 Actual Take	2014 Actual Take
Capture and mortality of listed salmonids by recovery domain	IC – all take	5925	841	3593
	IC – mortality	296	12	8
	OC – all take	375	0	0
	OC - mortality	19	0	0
	WLC – all take	1200	0	0
	WLC - mortality	60	0	0
Bull Trout	capture	250	0	14
	mortality	13	0	0



201409 Grande Ronde Subbasin Restoration Fish Salvage

APPROVED VARIANCES

BPA requested 19 variances with the most common variance requested being In Water Work Window (IWWW) Extensions (Table 7). Refer to figure 5 for approximate locations. There has been significant variability in processing times, especially with USFWS. This is likely due to unfamiliarity with the HIPIII in some field office locations. BPA would like to suggest a 30 day time limit in which we can consider a variance approved. Note days for processing times and average times below.

TABLE 7: APPROVED VARIANCES, PROCESSING TIMES, AND REASON

HIP3 NO#	Project	Habitat Branch	DAYS	Field Office	DAYS	REASON
201408	North Fork John Day Habitat Enhancement Project 2013 (Fox Creek)	E Oregon	1	NA	NA	Turbidity (before we had appropriate guidance)
201409	Grande Ronde Subbasin Restoration 13 (Phase 1)	S Snake	49	NA	NA	IWWW Extension
201431	Shillapoo Wildlife Area	SW Washington	15	Lacey	40	Use of Non-Approved Herbicide (Compadre & Valid)
201435	Natural Production Management and Monitoring	Columbia Basin	43	Bend	43	IWWW Extension
201436	Yankee Fork Restoration: Preacher's Cove 2014	S Snake	16	Chubbock	52	IWWW Extension, Turbidity, Work Area Isolation, IWW without dewatering
201439	Sunnyside Wildlife Area	Columbia Basin	36	Wenatchee	52	Use of Non-Approved Herbicide (Vista - fluroxypyr)
201450	Keystone to Kiosk RM 0.8-2.3	Columbia Basin	10	Wenatchee	28	IWW without Dewatering, Machine operations in River
201452	Tucannon (PA 15)	N Snake	7	Spokane	12	Structural Connections (Bolo-ballast wood)
201459	Entiat River Side Channel Enhancement RM 1.6-1.7 (Foreman Side Channel)	Columbia Basin	3	Wenatchee	20	IWW without Dewatering
201463	Harrison Side Channel	Columbia Basin	18	Wenatchee	17	Staging Area within 150, overnight
201465	Lemhi River Restoration	S Snake	3	Chubbock	12	IWWW Extension
201471	Wenas Wildlife Refuge	Columbia Basin	4	Wenatchee	16	Use of Non-Approved Herbicide (Vista - fluroxypyr)
201483	Green Island Channel Restoration Project Phase 2	Upper Willamette	1	NA	NA	IWW without Dewatering, excavated material used on site & >10%

201485	ESA Habitat Restoration (Pole Creek)	N Snake	15	Boise	14	IWWW Extension
201488	Lake Pend Oreille Kokanee Mitigation	NA	NA	Spokane	7	Amount of Gravel Placed
201499	Bayhorse Creek Culvert to Bridge Replacement	Southern Snake	1	Chubbock	14	IWWW Extension
201410 4	Nursery Bridge Fish Passage and Channel Stabilization Project	Columbia Basin	1	La Grande	1	IWWW Extension & Fish Passage
201410 5	Pine Creek Beaver Dam Analogues - Pilot	Columbia Basin	3	NA	NA	Beaver Dam Analogues
201411 0	Lemhi River Restoration	Southern Snake	5	Chubbock	7	IWWW Extension
		Mean days processed	13	Mean days processed	22	



201463 Harrison Side Channel Riparian Vegetation Planting

NON-COMPLIANCE

In 2014 there were 6 instances of projects with issues of non-compliance, in each instance the EC Lead contacted the project sponsor and informed them of the issue and communicated that further non-compliance may result in elimination of future funding.

TABLE 8: NON_COMPLIANCE ISSUES

HIPIII NO#	NON-COMPLIANT PROJECT
201418	YKFP O&M: Lower Yakima - Supplementation Complex
Explanation	Project proponent used an unapproved herbicide (Genesis). We are still seeking more information regarding this non-compliance issue.
HIPIII NO#	NON-COMPLIANT PROJECT
201462	Hungry Horse Mitigation/Flathead
Explanation	Project proponent used unapproved herbicides (Flouroxypyr and Alligare 90). These herbicides were approved under the variance process for other projects. This was an oversight as the project proponent did not understand that variances are approved on a project-by-project basis.
HIPIII NO#	NON-COMPLIANT PROJECT
201471	Wenas Wildlife Refuge
Explanation	Project proponent used an unapproved herbicide (Diuron) and unapproved adjuvants (Liberate, Spreader 90 & Freeway). Project proponent provided toxicological data that shows that those chemicals have a hazard quotient and toxicity less than R-11 and LI-700. Nonetheless they proceeded without a variance.
HIPIII NO#	NON-COMPLIANT PROJECT
201484	Yakima Basin Side Channels
Explanation	Project proponent used an unapproved herbicide (Genesis). We are still seeking more information regarding this non-compliance issue.
HIPIII NO#	NON-COMPLIANT PROJECT
201489	Coeur D'Alene Fisheries Habitat Restoration
Explanation	Project proponent did not monitor turbidity. Corrective action was taken.
HIPIII NO#	NON-COMPLIANT PROJECT
2014104	Nursery Bridge Fish Passage and Channel Stabilization Project
Explanation	Project proponent did not monitor turbidity. Corrective action was taken.

HIPIII TRAINING

During the entire month of March and beginning of April 2015, BPA’s environmental compliance staff hosted a series of training sessions throughout the Columbia Basin (Table 9). This training was a follow-up to the guidance provided in the year prior and was intended to provide further background and tools to enhance project permitting and compliance with the HIPIII.

TABLE 9: BPA HOSTED TRAINING LOCATIONS

CITIES	LOCATIONS	DATE
Salem, Oregon	ODFW HQ	2/25/15
Walla, Walla WA	Marcus Whitman Hotel	3/3/15
La Grande, OR	LaGrande Ranger District	3/4/15
Boise, ID	IDFG HQ	3/10/15
Hood River, OR	Best Western Hood River	3/12/15
Moxee, WA	Moxee City Hall	3/17/15
Portland, OR	Rates Hearing Room	3/18/15
Coeur d’ Alene, ID	Coeur d’ Alene Location	3/24/15
Wenatchee, WA	Confluence Center	3/25/15
Salmon, ID	Salmon-Challis NF HQ	3/31/15
John Day, OR	OR Dept of Forestry	4/7/15

Discussions included a general overview of the HIPIII, presentation of the HIPIII handbook and HIPIII herbicide handbook, turbidity monitoring, introduction of conservation measures, the RRT process, documentation and forms, in addition to several compliance case studies. The interest and attendance was significant, over 320 project sponsors attended at 11 locations. Evaluations were collected and the responses were overwhelmingly positive. BPA environmental planning and analysis group plans on hosting these trainings on a tri-annual basis.



Training Session in Coeur d’ Alene, ID 3/24/15

HERBICIDE USE

Herbicide use continues to be the most widely utilized project activity category under the HIPIII (Table 10 & Figure 2). This is due to the numerous wildlife mitigation areas that BPA purchases and are managed under contract by various entities. There has been an increased interest in using herbicides not under the current list such as flouxypr and applications in tidal wetlands within the estuary.

TABLE 10: PROJECTS WITH HERBICIDE USAGE

HIPIII No#	PROJECT TITLE	RIPARIAN	UPLAND
201401	Amazon Basin/West Eugene Wetlands	0	60.5
201402	Isqúultpe Creek Watershed Project 2013	5.04	17.2
201403	Rainwater Wildlife Area	9.4	182.2
201405	Klickitat Watershed Enhancement	1.25	3
201407	Protect and Restore Lapwai Creek Watershed	22.4	0
201408	North Fork John Day Habitat Enhancement Project 2013 (Fox Creek)	9	3.5
201411	Lapwai Creek Anadromous Habitat	1.6	0
201412	ODFW Operation and Maintenance	42	503
201413	Asotin Creek Wildlife Mitigation	0	288
201414	Umatilla Fish Passage Operation and Maintenance	0	8
201418	YKFP O&M: Lower Yakima - Supplementation Complex	4	34
201419	YKFP O&M: Lower Yakima - Supplementation Complex	8	0
201424	Hangman Creek Wildlife and Fisheries	0	70
201425	Wanaket Wildlife Area	0	97.6
201426	Idaho Department Fish and Game Operations and Maintenance	0	262
201427	Umatilla Hatchery Satellite Facilities Herbicide Use	4.5	25
201428	Umatilla Hatchery Herbicide Use	0	18
201430	Klickitat Watershed Enhancement	2.5	11.5
201431	Shillapoo Wildlife Area	20	779
201432	Fall Chinook Acclimation – Big Canyon Acclimation site and Sweetwater Compound	1	4
201433	Fall Chinook Acclimation – Captain John Rapids Site	4	0
201434	Umatilla River Habitat Restoration with Confederated Tribes of the Umatilla Indian Reservation	19.56	24
201437	YKFP O&M	8	0
201438	Nez Perce Tribal Hatchery O&M	0	38.7
201439	Sunnyside Wildlife Area	0	537
201440	Isqúultpe Creek Watershed Project 2014	2	63
201449	NE Oregon Wildlife Project - Precious Lands	0.74	355
201458	John Day Habitat Enhancement Project	11	0
201460	Hellsgate Winter Range 14	0	640
201462	Hungry Horse Mitigation/Flathead	13	151
201464	Yakima Phase II Fish Screen Operations and Maintenance	1.5	0
201467	Lapwai Creek Watershed Restoration	1.6	0
201468	Rainwater Wildlife Area	20	945
201470	John Day Tributary Passage and Flow	4	136
201471	Wenas Wildlife Refuge	18	858
201472	1890's Vegetation Management	0	1

201473	Eagle Rocks Riparian Vegetation Management	0.5	0
201477	Kentch Channel Restoration Floodplain Work and Invasive Species Control	11.6	55
201480	Scotch Creek Wildlife Mitigation	0	0
201483	Green Island Channel Restoration Project Phase 2	12	0
201484	Yakima Basin Side Channels	106	25
201491	Logan Valley Wildlife Mitigation	0	0
201492	North Fork John Day Habitat Enhancement Project 2013	85	0
201494	Lower Yakima Valley Riparian Wetlands Restoration	0	1293
201496	Albeni Falls Wildlife Mitigation - Kalispel Tribe	0	794
2014106	Umatilla Anadromous Fish Habitat with ODFW	4.8	0



201499 Bayhorse Creek Culvert to Bridge Replacement (Before)



201499 Bayhorse Creek Culvert to Bridge Replacement (After)

RESTORATION REVIEW TEAM

The RRT continues to meet every 3 weeks and has 8 dedicated staff members in addition to two hydraulic engineers. We are continuously looking for innovative ways to streamline our process and ensure consistency in our reviews. To that end we have crafted functional review checklists and other guidance materials and sent team members to professional trainings. We have recently hired and trained another hydraulic engineer to assist in technical reviews.

There has been resistance to the RRT from some of our federal partners. The USBOR has push backed on our technical reviews and comments on several of their proposed projects under the Tributary Habitat Assessment Program. Our engineers have found some technical issues with some of their proposed actions and made formal comments under the RRT review process. BPA management has affirmed that they will continue to support technical reviews of high risk, high dollar, complex projects.

RRT Work Load

To date, 68 actions have been submitted to the RRT for review. Thus far, 46 of these actions have completed review. 5 of these projects were determined to be outside of the HIP3 and either recommended for individual consultation or alternative approaches. 14 of these actions were implemented in 2013; 21 are scheduled for implementation in calendar year 2014; and 4 in calendar year 2015.

In terms of risk level, completed RRT reviews are broken down in table 11 & 12. We expect the number of submittals for high risk actions to increase. Note that high risk actions would previously have required a Biological Assessment and an individual Section 7 Consultation.

TABLE 11: FY 2103 RRT PROJECTS THAT COMPLETED REVIEW

FY 13	No# Projects Approved	No# Projects HIPIII NA	No# Projects with Significant Engineering Changes
Medium Risk	4	3	1
High Risk	2	0	1

TABLE 12: FY 14 RRT PROJECTS THAT COMPLETED REVIEW

FY 14	No# Projects Approved	No# Projects HIPIII NA	No# Projects with Significant Engineering Changes
Medium Risk	14	5	2
High Risk	6	2	3

Currently, there are 13 medium risk and 5 high risk projects submitted to the RRT for work to be completed in 2015 (Table 13).

TABLE 13: FY 15 ONGOING RRT PROJECTS

FY 15	No# Projects Approved	No# Projects with Review Ongoing	No# Projects HIPIII NA	No# Projects with Significant Engineering Changes
Medium Risk	5	3	2	3
High Risk	0	4	1	0

The RRT continues to find projects that don't fit the HIPIII criteria and provide technical assistance to meet criteria. When the criteria still can't be met or if the project sponsor is resistant to changes, this is causing funding decisions to be questioned and re-evaluated. This is a testament to the success of the group for it is raising the bar on proposed restoration projects and meeting BPA's habitat restoration objectives.



201453 Tucannon PA 1& 3 Habitat Complexity



201498 Big Creek Fish Passage Project (Before)



201498 Big Creek Fish Passage Project (After)