

Duncan Dam Project Water Use Plan

Monitoring Programs and Physical Works Annual Report: 2014

Implementation Period: April 2013 to March 2014

- DDMMON-1 Lower Duncan River Ramping Rate Monitoring
- DDMMON-2 Lower Duncan River Habitat Use Monitoring
- DDMMON-3 Lower Duncan River Hydraulic Model Development
- DDMMON-4 Lower Duncan River Kokanee Spawning Monitoring
- DDMMON-5 Upper Duncan River Bull Trout Migration Monitoring
- DDMMON-6 Lower Duncan Dam Bull Trout Passage Monitoring
- DDMMON-7 Lower Duncan River Water Quality Monitoring
- DDMMON-8 Duncan Watershed Riparian and Cottonwood Monitoring
- DDMMON-9 Lower Duncan River Mosquito Monitoring and Management Plan Development
- DDMMON-10 Duncan Reservoir Fish Habitat Use Monitoring
- DDMMON-11 Duncan Reservoir Burbot Monitoring
- DDMMON-12 Duncan Reservoir Archaeological Overview Assessment
- DDMMON-13 Duncan Reservoir Archaeological Site Erosion Monitoring
- DDMMON-14 Duncan Wildlife Use Monitoring
- DDMMON-15 Lower Duncan River Stranding Protocol Development and Finalization
- DDMMON-16 Lower Duncan River Fish Stranding Impact Monitoring
- DDMMON-17 Duncan Reservoir Kokanee Stock Assessment
- DDMWORKS-1 Lower Duncan River Argenta Slough Erosion Protection
- DDMWORKS-2 Duncan Reservoir Glacier Creek Boat Ramp Extension
- DDMWORKS-3 Plan to Address Nutrient Retention Caused by Duncan Dam Operations
- DDMWORKS-4 Action Plan to Minimize Stranding of Kokanee Spawning in Lower Duncan River Sidechannels

For Conditional Water Licence for Duncan Dam and Reservoir 27027

April 30, 2014

BC Hydro Duncan Dam Project Water Use Plan Monitoring Programs and Physical Works Annual Report: 2014

1 Introduction

This document represents a summary of the status and the results of the Duncan Dam Water Use Plan (WUP) monitoring programs and physical works to March 31, 2014, as per the Duncan Dam Order under the *Water Act*, dated December 21, 2007. There are seventeen monitoring programs and four physical works.

2 Status

The following table outlines the dates that TOR for the Duncan Dam WUP Monitoring programs and physical works were submitted to and approved by the CWR.

Table 2-1: Dates of Duncan Dam WUP TOR Submissions and Approvals by the Comptroller of Water Rights

Monitoring Program & Physical Works TOR	Order Clause	Original ToR Submission		Most Recent ToR Resubmission	
		Date Submitted	Date Approved	Date Submitted	Date Approved
DDMMON-1 Lower Duncan River Ramping Rate Monitoring	Clause 5(e)	Apr 03, 2008	Apr 30, 2008		
DDMMON-2 Lower Duncan River Habitat Use Monitoring	Clause 5(e)	Aug 07, 2008	Sep 9,2008		
DDMMON-3 Lower Duncan River Hydraulic Model Development	Clause 5(e)	Apr 03, 2008	Apr 30, 2008	Mar 31, 2014	
DDMMON-4 Lower Duncan River Kokanee Spawning Monitoring	Clause 6(a)	Apr 03, 2008	Apr 30, 2008	Dec 19, 2008	Mar 17, 2009
DDMMON-5 Upper Duncan River Bull Trout Migration Monitoring	Clause 6(b)	Jan 23, 2008	Mar 05, 2008	Feb 22, 2010	Mar 18, 2010
DDMMON-6 Lower Duncan Dam Bull Trout Passage Monitoring	Clause 6(b)	Jan 23, 2008	Mar 05, 2008		
DDMMON-7 Lower Duncan River Water Quality Monitoring	Clause 6(c)	Dec 16, 2008	Mar 11, 2009		
DDMMON-8 Duncan Riparian Monitoring	Clause 6(d)	Aug 07, 2008	Sep 09, 2008	Nov 01, 2012	Nov 15, 2012
DDMMON-9 Lower Duncan River Mosquito Monitoring and Management Plan Development	Clause 6(e)	Aug 07, 2008	Sep 09, 2008	May 13, 2013	Jun 13, 2013
DDMMON-10 Duncan Reservoir Fish Habitat Use Monitoring	Clause 6(f)	Dec 16, 2008	Mar 11, 2009		
DDMMON-11 Duncan Reservoir Burbot Monitoring	Clause 6(g)	Apr 03, 2008	Apr 30, 2008	May 01, 2013	May 29, 2013
DDMMON-12 Duncan Reservoir Archaeological Overview Assessment	Clause 5(f)	Dec 04, 2009	Feb 05, 2010		
DDMMON-13 Duncan Reservoir Archaeological Site Erosion Monitoring	Clause 5(g)	Dec 04, 2009	Apr 07, 2010		
DDMMON-14 Duncan Wildlife Use Monitoring	Clause 6(h)	Aug 07, 2008	Sep 09, 2008		
DDMMON-15 Lower Duncan River Stranding Protocol Development and Finalization	Clause 5(e)	Dec 16, 2008	Mar 11, 2009	Jul 30, 2009	Aug 31, 2009

Monitoring Program & Physical Works TOR	Order Clause	Original ToR Submission		Most Recent ToR Resubmission	
		Date Submitted	Date Approved	Date Submitted	Date Approved
DDMMON-16 Lower Duncan River Fish stranding impact monitoring	Clause 5(e)	Jul 23, 2008	Sep 08, 2008		
DDMMON-17 Duncan Reservoir Kokanee Stock Assessment	Clause 6(f)	Dec 04, 2009	Apr 08, 2010		
DDMWORKS-1 Argenta Slough Erosion Protection	Clause 5(a)	Jan 23, 2008	Mar 18, 2008	Jun 12, 2013	Jul 05, 2013
DDMWORKS-2 Glacier Creek Boat Ramp	Clause 5(b)	Jan 23, 2008	Mar 18, 2008		
DDMWORKS-3 Plan to Address Nutrient Retention Caused by Duncan Dam Operations	Clause 5(d)	Jan 23, 2008	Mar 18, 2008		
DDMWORKS-4 Action Plan to Minimize Stranding of Kokanee Spawning in Lower Duncan River Sidechannels	Clause 5(c)	Dec 04, 2009	Apr 08, 2010	Dec 03, 2013	Jan 15, 2014

3 Schedule

The following table (Table 3-1) outlines the current schedule for the monitoring programs and physical works being delivered for the Duncan Dam WUP.

Table 3-1: Table of WUP Schedule

Monitoring Programs	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	
	WLR YR1	WLR YR2	WLR YR3	WLR YR4	WLR YR5	WLR YR6	WLR YR7	WLR YR8	WLR YR9	WLR YR10	WLR YR11 Final Review	
DDMMON-1 Lower Duncan River Ramping Rate Monitoring	✓	✓								■		
DDMMON-2 Lower Duncan River Habitat Use Monitoring	✓	✓	✓	✓	✓							
DDMMON-3 Lower Duncan River Hydraulic Model Development		✓	✓		✓					■		
DDMMON-4 Lower Duncan River Kokanee Spawning Monitoring	✓	✓	✓	✓	✓	✓	u/w	■	■	■		
DDMMON-5 Upper Duncan River Bull Trout Migration Monitoring	✓	✓			✓	✓		■		■		
DDMMON-6 Lower Duncan Dam Bull Trout Passage Monitoring	✓	✓	✓	x					■	■	■	
DDMMON-7 Lower Duncan River Water Quality Monitoring			✓	✓	✓							
DDMMON-8 Duncan Riparian Monitoring		✓	✓		✓	✓	■	■	■	■	■	
DDMMON-9 Lower Duncan River Mosquito Monitoring and Management Plan Development		✓	✓	✓	✓		■		■		■	
DDMMON-10 Duncan Reservoir Fish Habitat Use Monitoring		✓	✓	✓	✓		■		■		■	
DDMMON-11 Duncan Reservoir Burbot Monitoring		✓	✓	✓			■	■				
DDMMON-12 Duncan Reservoir Archeological Overview Assessment			✓									
DDMMON-13 Duncan Reservoir Archeological Site Erosion Monitoring				✓	✓	✓	■	■				
DDMMON-14 Duncan Wildlife Use Monitoring		✓		✓			x			■		
DDMMON-15 Lower Duncan River Stranding Protocol Development and Finalization		✓	✓	✓	✓	✓	■	■	■	■	■	
DDMMON-16 Lower Duncan River Fish stranding impact monitoring	✓	✓	✓	✓	✓	✓	■	■	■	■		
DDMMON-17 Duncan Reservoir Kokanee Stock Assessment									■	■	■	
Physical Works												
DDMWORKS-1 Argenta Slough Erosion Protection	✓	✓	x			x						
DDMWORKS-2 Glacier Creek Boat Ramp	x	✓										
DDMWORKS-3 Kootenay Lake Nutrient Loading Funding	✓	✓	✓	✓	✓	✓	■	■	■	■		
DDMWORKS-4 Action Plan to minimize stranding of kokanee stranding in Lower Duncan River Sidechannels							■	■	■	■	■	
Legend:	■	= Program to be undertaken/initiated in identified year										
	u/w	= Program is underway										
	✓	= Program completed for the year										
	x	= Program started, but encountered operational or hydrological delays										

4 Monitoring Programs and Physical Works Terms of Reference

The Monitoring Programs and Physical Works being implemented under the Duncan Dam WUP are described in Terms of Reference. These Terms of Reference and the reports for work completed to date can be found here:

http://www.bchydro.com/about/sustainability/conservation/water_use_planning/southern_interior/duncan_dam.html

5 Summary of Monitoring Programs

5.1 DDMMON-1 Lower Duncan River Ramping Rate Monitoring

5.1.1 Status

This monitoring program was initiated in 2008 and does not implement again until 2017. No report is attached.

5.2 DDMMON-2 Lower Duncan River Habitat Use Monitoring

5.2.1 Status

This monitoring project is complete.

5.3 DDMMON-3 Lower Duncan River Hydraulic Development

5.3.1 Status

This monitoring program was initiated in 2009. The next update to the hydraulic model will occur in 2017. The report for Year 3 dated October 31, 2013 is attached.

5.4 DDMMON-4 Lower Duncan River Kokanee Spawning Monitoring

5.4.1 Status

This monitoring program was initiated in 2008 and will be carried out every year over 10 years. No report attached. Report for Year 6 (2013 Data) due May 2014 to be submitted in next year's report.

5.5 DDMMON-5 Upper Duncan River Bull Trout Migration Monitoring

5.5.1 Status

This monitoring program was initiated in 2008 and will be carried out periodically over 10 years. Report for Year 3 dated July 2, 2013 is attached.

5.6 DDMMON-6 Lower Duncan Dam Bull Trout Passage Monitoring

5.6.1 Status

This monitoring program was initiated in 2008 for 3 years. Post-monitoring will recommence for 3 years in 2016 after the implementation of a new weir.

No report is attached.

5.7 DDMMON-7 Lower Duncan River Water Quality Monitoring

5.7.1 Status

This monitoring program was initiated in 2010 and was completed in 2012.

5.8 DMMON-8 Duncan Watershed Riparian and Cottonwood Monitoring

This project has been divided into two discrete monitoring components based on their locations in the Duncan River watershed.

5.8.1 DDMMON-8-1 Lower Duncan River Riparian Cottonwood Monitoring

5.8.1.1 Status

This monitoring program was initiated in 2009 and with the exception of 2011, will be carried out every year over 10 years.

Attached is the report for Year 4 dated March 2014.

5.8.2 DDMMON-8-2 Duncan Reservoir Riparian Monitoring

5.8.2.1 Status

This monitoring program was initiated in 2009, implemented in 2012, will next be carried out in 2015 and 2018.

No report is attached.

5.9 DDMMON-9 Lower Duncan River Mosquito Monitoring and Management Plan Development

5.9.1 Status

This monitoring program was initiated in 2009 and will be carried out periodically over 10 years. Report for Year 4 (2012) dated March 11, 2014 is attached.

5.10 DDMMON-10 Duncan Reservoir Fish Habitat Use Monitoring

5.10.1 Status

This monitoring program was initiated in 2009 and will be carried out periodically over 10 years. No implementation in 2013; the project will resume in 2014.

The Year 5 report (April 2012 – January 2013) dated February 27, 2013 is attached.

5.11 DDMMON-11 Duncan Reservoir Burbot Monitoring

5.11.1 Status

This monitoring program was initiated in 2009 and as a result of 2011 implementation the Terms of Reference were revised and accepted on May 29, 2013. The project is now a 5 year physical modelling study that will implement the remaining two years in 2014 and 2015.

No report is attached.

5.12 DDMMON-12 Duncan Reservoir Archaeological Overview Assessment

5.12.1 Status

This study was initiated in 2010 and was completed in 2011.

5.13 DDMMON-13 Duncan Reservoir Archaeological Site Erosion Monitoring

5.13.1 Status

This monitoring program was initiated in 2011 and will be carried out every year for 5 years.

Attached is the report for Year 3 dated October 31, 2013.

5.14 DDMMON-14 Duncan Wildlife Use Monitoring

5.14.1 Status

This monitoring program was initiated in 2009 and implemented in 2011. Based on an external review of this study, the Terms of Reference must be revised and will be submitted by November 28, 2014.

No report is attached.

5.15 DDMMON-15 Lower Duncan River Stranding Protocol Development and Finalization

5.15.1 Status

This project was initiated in 2009 and will be carried out every year for 10 years. The draft report is still in progress for Year 4 and will be submitted in the 2015 Annual Report.

5.16 DDMMON-16 Lower Duncan River Fish Stranding Impact Monitoring

5.16.1 Status

This project was initiated in 2008 and will be carried out every year for 10 years.

Attached is the report for Year 5 dated January 31, 2014.

5.17 DDMMON-17 Duncan Reservoir Kokanee Stock Assessment

5.17.1 Status

This study will be carried out every year for 3 years commencing in 2015.

6 Summary of Physical Works

6.1 DDMWORKS-1 Argenta Slough Erosion Protection

6.1.1 Status

Consultation with the regulators (Department of Fisheries and Oceans, and Ministry of Forests, Lands and Natural Resources) took place in January 2014 regarding the results of the Argenta Slough Erosion Protection Assessment dated November 29, 2013. The Assessment examined how a breach will affect the slough and the feasibility of any physical works to protect the slough. The regulators did not support proceeding with the physical works outlined in the Assessment as a result of the uncertainty of success and the potential damage to the slough that the physical works could create. The regulators agreed for BC Hydro to continue erosion monitoring in 2014 and create an ecological inventory of the areas of the slough that are threatened by a breach.

Attached is the Assessment Study dated November 29, 2013.

6.2 DDMWORKS-2 Glacier Creek Boat Ramp Extension

6.2.1 Status

The ramp was completed in May 2009. Inspection of the ramp is scheduled for spring of 2014.

6.3 DDMWORKS-3 Plan to Address Nutrient Retention Caused by Duncan Dam Operations

6.3.1 Status

Payments are made annually to the amount of 17.5% of the previous years fertilisation cost as per the letter of agreement between BC Hydro and the FWCP. In 2013, the payment was \$ 116,302.

6.4 DDMWORKS-4 Action Plan to Minimize Stranding of Kokanee Spawning in Lower Duncan River Sidechannels

6.4.1 Status

Consultation with the regulators (Department of Fisheries and Oceans and Ministry of Forests, Lands and Natural Resources) took place in January 2013. The regulators agreed to treat the Kokanee within the Lower Duncan River, Lardeau and Meadow Creek as one population based on genetic analysis conducted by Lemay & Russello 2011¹. In general, the regulators rejected physical works given issues with logistics, annual maintenance and potential secondary effects on other resources in the area. BC Hydro is currently evaluating alternatives.

7 Monitoring Programs and Physical Works Costs

The following table summarizes the Duncan Dam WUP monitoring programs and physical works costs approved by the Comptroller and the Actual Costs to March 31, 2014.

¹ Lemay M. A. and Russello M.A. 2011. Genetic stock identification of kokanee salmon from Kootenay Lake British Columbia, Report to BC Hydro.

Table 7-1: Duncan Dam WUP Monitoring Programs and Physical Works Costs

Monitoring Programs	Costs approved by CWR	Life to Date Actuals (LTD)	Estimated to Complete (Forecast)	Total Forecast (LTD and Forecast)	Variance Total to Approved	Explanation	Corrective Action
Duncan Dam WUP Annual Report	\$25,300	\$8,577	\$14,341	\$22,918	\$2,382	Efficiencies found during project implementation.	No corrective action required.
DDMM01A Ramping Rate	\$247,883	\$125,967	\$115,932	\$241,899	\$5,984	Efficiencies found during project implementation.	No corrective action required.
DDMM01A Ramping Rate - ONR DM	\$34,639	\$17,643	\$11,932	\$29,574	\$5,065		
DDMM01A Ramping Rate - ONR Imp	\$213,244	\$108,324	\$104,000	\$212,324	\$920		
DDMM02A Low Duncan HabitatUse	\$566,815	\$502,057	\$0	\$502,057	\$64,758	Project complete.	No corrective action required.
DDMM02A Low Duncan HabitatUse - ONR DM	\$84,707	\$40,585	\$0	\$40,585	\$44,122		
DDMM02A Low Duncan HabitatUse - ONR Imp	\$482,108	\$461,472	\$0	\$461,472	\$20,636		
DDMM03A Low Duncan Hydraulic	\$645,686	\$566,417	\$92,528	\$658,945	(\$13,259)	Due to model complexities and coordination tasks in the first year, direct management costs were higher than anticipated.	TOR revision was submitted on March 31, 2014; awaiting CWR approval.
DDMM03A Low Duncan Hydraulic - ONR DM	\$60,107	\$76,207	\$11,733	\$87,941	(\$27,834)		
DDMM03A Low Duncan Hydraulic - ONR Imp	\$585,579	\$490,210	\$80,795	\$571,005	\$14,574		
DDMM04A Low Duncan Kokanee Sp	\$1,462,700	\$561,398	\$516,455	\$1,077,853	\$384,847	Efficiencies found during project implementation.	No corrective action required.
DDMM04A Low Duncan Kokanee Sp - ONR DM	\$148,850	\$40,573	\$58,781	\$99,354	\$49,496		
DDMM04A Low Duncan Kokanee Sp - ONR Imp	\$1,313,850	\$520,825	\$457,674	\$978,499	\$335,351		
DDMM05A Up Duncan Bull Study	\$436,738	\$228,159	\$180,637	\$408,797	\$27,942	Efficiencies found during project implementation.	No corrective action required.
DDMM05A Up Duncan Bull Study - ONR DM	\$88,738	\$35,874	\$34,372	\$70,246	\$18,492		
DDMM05A Up Duncan Bull Study - ONR Imp	\$348,000	\$192,285	\$146,265	\$338,550	\$9,450		
DDMM06A Low Duncan Bull Pass	\$280,970	\$93,135	\$113,536	\$206,671	\$74,299	Efficiencies found during project implementation.	No corrective action required.
DDMM06A Low Duncan Bull Pass - ONR DM	\$78,970	\$27,205	\$13,536	\$40,741	\$38,229		
DDMM06A Low Duncan Bull Pass - ONR Imp	\$202,000	\$65,930	\$100,000	\$165,930	\$36,070		
DDMM07A Low Duncan Water Qual	\$154,827	\$106,114	\$0	\$106,114	\$48,713	Project complete.	No corrective action required.
DDMM07A Low Duncan Water Qual - ONR DM	\$43,003	\$22,077	\$0	\$22,077	\$20,926		
DDMM07A Low Duncan Water Qual - ONR Imp	\$111,824	\$84,037	\$0	\$84,037	\$27,787		
DDMM08A Low Duncan Riparian	\$1,457,738	\$566,657	\$749,314	\$1,315,971	\$141,767	Efficiencies found during project implementation.	No corrective action required.
DDMM08A Low Duncan Riparian - ONR DM	\$192,758	\$60,048	\$67,336	\$127,384	\$65,374		
DDMM08A Low Duncan Riparian - ONR Imp	\$1,264,980	\$506,609	\$681,978	\$1,188,587	\$76,393		
DDMM09A LDR Mosquito Mon	\$730,574	\$326,969	\$377,126	\$704,095	\$26,479	Efficiencies found during project implementation.	No corrective action required.
DDMM09A LDR Mosquito Mon - ONR DM	\$122,310	\$66,232	\$55,857	\$122,089	\$221		
DDMM09A LDR Mosquito Mon - ONR Imp	\$608,264	\$260,737	\$321,268	\$582,005	\$26,259		
DDMM10A Res Seasonal Habitat	\$791,362	\$525,138	\$215,590	\$740,728	\$50,634	Efficiencies found during project implementation.	No corrective action required.
DDMM10A Res Seasonal Habitat - ONR DM	\$117,205	\$52,619	\$43,095	\$95,714	\$21,491		
DDMM10A Res Seasonal Habitat - ONR Imp	\$674,157	\$472,519	\$172,495	\$645,014	\$29,143		
DDMM11A Duncan Burbot	\$829,768	\$521,635	\$188,016	\$709,651	\$120,117	Efficiencies found during project implementation.	No corrective action required.
DDMM11A Duncan Burbot - ONR DM	\$173,632	\$47,655	\$21,520	\$69,175	\$104,457		
DDMM11A Duncan Burbot - ONR Imp	\$656,136	\$473,980	\$166,496	\$640,476	\$15,660		
DDMM12A Duncan Arch Assess	\$68,632	\$71,521	\$0	\$71,521	(\$2,889)	Project complete.	No corrective action required.
DDMM12A Duncan Arch Assess - ONR DM	\$21,870	\$26,992	\$0	\$26,992	(\$5,122)		
DDMM12A Duncan Arch Assess - ONR Imp	\$46,762	\$44,529	\$0	\$44,529	\$2,233		
DDMM13A Duncan Arch Monitor	\$306,185	\$145,066	\$100,385	\$245,450	\$60,735	Efficiencies found during project implementation.	No corrective action required.
DDMM13A Duncan Arch Monitor - ONR DM	\$79,579	\$59,922	\$19,056	\$78,977	\$602		
DDMM13A Duncan Arch Monitor - ONR Imp	\$226,606	\$85,144	\$81,329	\$166,473	\$60,133		
DDMM14A DuncanResRiparianWLD	\$450,955	\$218,685	\$120,333	\$339,018	\$111,937	Efficiencies found during project implementation.	No corrective action required.
DDMM14A DuncanResRiparianWLD - ONR DM	\$97,167	\$60,947	\$22,563	\$83,511	\$13,656		
DDMM14A DuncanResRiparianWLD - ONR Imp	\$353,788	\$157,738	\$97,770	\$255,508	\$98,280		
DDMM15A LDR StrandingProtocol	\$257,049	\$107,134	\$118,079	\$225,213	\$31,836	Efficiencies found during project implementation.	No corrective action required.
DDMM15A LDR StrandingProtocol - ONR DM	\$71,421	\$15,511	\$34,987	\$50,498	\$20,923		
DDMM15A LDR StrandingProtocol - ONR Imp	\$185,628	\$91,624	\$83,092	\$174,716	\$10,912		
DDMM16A LDR Stranding Assess	\$1,002,995	\$425,015	\$458,919	\$883,934	\$119,061	Efficiencies found during project implementation.	No corrective action required.
DDMM16A LDR Stranding Assess - ONR DM	\$144,330	\$33,372	\$49,585	\$82,957	\$61,373		
DDMM16A LDR Stranding Assess - ONR Imp	\$858,665	\$391,643	\$409,334	\$800,977	\$57,688		
DDMM17A Duncan Res KoK Mon	\$248,583	\$460	\$237,305	\$237,764	\$10,819	Efficiencies in project implementation expected.	No corrective action required.
DDMM17A Duncan Res KoK Mon - ONR DM	\$49,281	\$460	\$38,003	\$38,462	\$10,819		
DDMM17A Duncan Res KoK Mon - ONR Imp	\$199,302		\$199,302	\$199,302	\$0		
DDMW01A Argenta Slough Eros	\$270,761	\$132,719	\$130,543	\$263,262	\$7,499	Efficiencies in project implementation expected.	No corrective action required.
DDMW01A Argenta Slough Eros - ONR DM	\$47,561	\$35,280	\$17,636	\$52,916	(\$5,355)		
DDMW01A Argenta Slough Eros - ONR Imp	\$223,200	\$97,438	\$112,907	\$210,345	\$12,855		
DDMW02A Glacier Creek Boat	\$197,339	\$123,521	\$46,432	\$169,953	\$27,386	Efficiencies found during project implementation.	No corrective action required.
DDMW02A Glacier Creek Boat - ONR DM	\$71,139	\$36,945	\$11,808	\$48,753	\$22,386		
DDMW02A Glacier Creek Boat - ONR Imp	\$126,200	\$86,576	\$34,624	\$121,200	\$5,000		
DDMW03A Plan Nutrient Reten	\$1,496,979	\$765,193	\$598,739	\$1,363,932	\$133,047	Efficiencies found during project implementation.	No corrective action required.
DDMW03A Plan Nutrient Reten - ONR DM	\$40,979	\$3,012	\$0	\$3,012	\$37,967		
DDMW03A Plan Nutrient Reten - ONR Imp	\$1,456,000	\$762,181	\$598,739	\$1,360,920	\$95,080		
DDMW04A Action Plan Kokanee	\$241,650	\$11,704	\$157,326	\$169,031	\$72,619	Efficiencies in project implementation expected.	No corrective action required.
DDMW04A Action Plan Kokanee - ONR DM	\$90,342	\$11,549	\$43,857	\$55,406	\$34,936		
DDMW04A Action Plan Kokanee - ONR Imp	\$151,308	\$155	\$113,469	\$113,624	\$37,684		
OR - Ordered Remissible							
ONR - Ordered Non-Remissible							

* Red values in parentheses denote overage.