

Glen Canyon Dam Adaptive Management Work Group
Agenda Item Information
August 24-25, 2010

Agenda Item

FY2010 Mid-year Expenditures

Action Requested

√ Information item only; we will answer questions but no action is requested

Presenters

Dennis Kubly, Chief, Adaptive Management Group, Upper Colorado Region, Bureau of Reclamation
John Hamill, Chief, Grand Canyon Monitoring and Research Center, U. S. Geological Survey

Previous Action Taken

√ By AMWG: At its August 2004 meeting, AMWG approved a budget process that included a semi-annual (mid-year and final) presentation of expenditures to date.

Relevant Science

N/A

Background Information

Attached please find the mid-year budget reports from the Bureau of Reclamation and the Grand Canyon Monitoring and Research Center.

Conclusions:

Bureau of Reclamation (see following spreadsheet for individual project lines)

•
GCMRC

- Through July 20, 2010 we have obligated or expended 85% of funds available for use in FY2010 (see TABLE 1).
- Expected funding to be carried over to FY2011.
 - We expect to fully expend all Power Revenue funds; no carryover is expected. (No funding is allowed to be carried over due to expiration of agreement.) Any unused Power Revenue funds will be returned to Reclamation.
 - \$37k Lake Powell funding will be carried over to FY2011 due to a decreased GCMRC SOW in FY10.
 - \$77,602 was returned to Reclamation for cancelled non-native fish control project; we assume Reclamation will carry these funds over to FY2011.
 - \$150K experimental funds for non-native fish control was not transferred from Reclamation to GCMRC due to cancellation of project; we assume Reclamation will carry over these funds to FY2011.
- No other actions or concerns are expected.

RECLAMATION

Managing Water in the West

Bureau of Reclamation FY 2010 Mid-year Expenditures

Glen Knowles
Bureau of Reclamation
Adaptive Management Work Group Meeting
August 24, 2010



U.S. Department of the Interior
Bureau of Reclamation

Glen Canyon Dam Adaptive Management Program

FY 2010 Expenditures for the Bureau of Reclamation (October 1, 2009 - June 30, 2010)

							Updated:	8/5/10
AMWG	Description	Budgeted Amount	Burden	Obligation	Expenditure Burden & Labor	% Used	Balance	
2010 - 3rd Quarter	Personnel Costs - Labor & Burden	\$174,449	\$24,137	\$174,449	\$104,017	60%	\$70,432	
2010 - 3rd Quarter	AMWG Member Travel Reimb	\$17,240		\$17,240	\$6,669	39%	\$10,571	
2010 - 3rd Quarter	AMWG Reclamation Travel Reimb.	\$13,994		\$13,994	\$9,277	66%	\$4,717	
2010 - 3rd Quarter	Facilitation Contract	\$26,609		\$26,609	\$25,298	95%	\$1,311	
2010 - 3rd Quarter	POAHG Expenses - Labor, Burden, & Travel	\$54,814	\$5,821	\$54,814	\$31,555	58%	\$23,259	
2010 - 3rd Quarter	Other	\$7,865		\$7,865	\$858	11%	\$7,007	
Subtotal		\$294,971	\$29,958	\$294,971	\$177,673	60%	\$117,298	
TWG								
2010 - 3rd Quarter	Personnel Costs - Labor	\$85,074	\$21,142	\$85,074	\$90,202	106%	-\$5,128	
2010 - 3rd Quarter	TWG Member Travel Reimb.	\$23,641		\$23,641	\$15,798	67%	\$7,843	
2010 - 3rd Quarter	Reclamation Travel	\$17,428		\$17,428	\$9,618	55%	\$7,810	
2010 - 3rd Quarter	TWG Chair / Facilitation	\$24,305		\$24,305	\$5,000	21%	\$19,305	
2010 - 3rd Quarter	Other	\$2,247		\$2,247	\$11,369	506%	-\$9,122	
Subtotal		\$152,695	\$21,142	\$152,695	\$131,987	86%	\$20,708	
OTHER								
2010 - 3rd Quarter	Compliance Documents	\$49,350	\$0	\$49,350	\$0	0%	\$49,350	
2010 - 3rd Quarter	Admin Support NPS Permitting	\$117,307		\$117,307	\$88,309	75%	\$28,998	
2010 - 3rd Quarter	Contract Administration - Labor, Burden, Travel	\$39,434	\$8,963	\$39,434	\$38,298	97%	\$1,136	
2010 - 3rd Quarter	Experimental Carryover Funds	\$396,102		\$396,102	\$0	0%	\$396,102	
2010 - 3rd Quarter	Integrated Tribal Resource Monitoring	\$141,027		\$141,027	\$59,192	42%	\$81,835	
2010 - 3rd Quarter	Non-Native Fish Suppression Contingency Fund	\$48,483		\$48,483	\$0	0%	\$48,483	
Subtotal		\$791,703	\$8,963	\$791,703	\$185,800	23%	\$605,903	
PROGRAMMATIC AGREEMENT ADMINISTRATION								
2010 - 3rd Quarter	Reclamation Administration and Travel	\$59,382	15,308	\$59,382	\$53,203	90%	\$6,179	
2010 - 3rd Quarter	GRCA Treatment Plan and Implementation	\$493,500		\$493,500	\$124,670	25%	\$368,830	
Subtotal		\$552,882	\$11,266	\$552,882	\$177,873	32%	\$375,009	
Reclamation Power Revenue Costs Total		\$1,792,251	\$71,329	\$1,792,251	\$673,334	38%	\$1,118,917	
TRIBAL CONTRACTS								
2010 - 3rd Quarter	Hopi Tribe	\$95,000		\$95,000	\$73,033	77%	\$21,967	
2010 - 3rd Quarter	Hualapai Tribe	\$95,000		\$95,000	\$95,000	100%	\$0	
2010 - 3rd Quarter	Navajo Nation	\$95,000		\$95,000	\$0	0%	\$95,000	
2010 - 3rd Quarter	Pueblo of Zuni	\$95,000		\$95,000	\$74,051	78%	\$20,949	
2010 - 3rd Quarter	Kaibab Band of Paiute Indians	\$95,000		\$95,000	\$68,143	72%	\$26,857	
DOI Agency Appropriated Funds Total		\$475,000		\$475,000	\$310,227	65%	\$164,773	
Total		\$2,267,251	\$71,329	\$2,267,251	\$983,561	43%	\$1,283,690	

Reclamation Expenditures to June 30, 2010

Power Revenues: \$1,792,251 budgeted

- Purposeful carry-forward \$513,240 (compliance, experiments, non-native fish)
- Expended \$673,333 (53% of remainder)
- Largest remainder GRCA Treatment Plan (\$368,830) additional invoices to come

Appropriated Funds: \$475,000 budgeted

- \$310,227 expended (65%)

RECLAMATION

TABLE 1

	A	C	D	M	N	P	X	Y	Z	AA	AB	AD
1	Grand Canyon Monitoring and Research Center											
2	Fiscal Year 2010 Adaptive Management Work Plan											
3	Actual Expenditures and Projected Carryover as of July 20, 2010											
4												
5	Grand Canyon Monitoring and Research Center Project Descriptions	Approved GROSS FY10 GCMRC Budget (incl <1.3%> CPI, FY09 Carryover, Burden & Experimental Funds)	Actual GROSS FY10 Budget (incl Burden)	Actual NET FUNDS AVAILABLE (excludes Burden)	TOTAL Burden Assessed FY10	Overall Burden Rate in FY10	FY-T-D Outstanding Commitments & Obligations in FY10	FY-T-D Expenditures in FY10	TOTAL COMMITMENTS, OBLIGATIONS & EXPENDITURES IN FY10	% USED to Date in FY10	Projected Additional Spending to End of FY10	Projected Carryover to FY11
6												
7	CAPPED POWER REVENUES											
8	GOAL 1 FOOD BASE											
9	Aquatic Food Base	531,183	510,776	456,765	51,253	11.22%	275,919	165,467	441,386	86.41%	69,390	-
10	Impacts of Flow Regimes on Aquatic Food Base	61,304	58,926	53,923	5,003	9.28%	42,436	16,490	58,926	100.00%	-	-
11	SUBTOTAL GOAL 1	592,487	569,702	510,688	56,256	11.02%	318,355	181,957	500,312	87.82%	69,390	-
12	GOAL 2 NATIVE FISHES											
13	LCR HBC Monitoring Lower 15km (HBC Population Est)	449,810	453,889	419,455	34,434	8.21%	368,615	85,274	453,889	100.00%	-	-
14	LCR HBC Monitoring Lower 1,200m	56,675	57,215	53,000	4,215	7.95%	47,741	9,475	57,215	100.00%	-	-
15	HBC Monitoring Above Chute Falls	141,332	141,829	127,287	14,542	11.42%	76,689	65,140	141,829	100.00%	-	-
16	Monitoring Mainstem Fishes (incl Diamond Down)	624,239	599,771	537,682	62,089	11.55%	318,270	280,837	599,107	99.89%	664	-
17	Nonnative Control Planning	62,943	70,724	59,715	11,009	18.44%	-	32,001	32,001	45.25%	38,723	-
18	Stock Assessment of Native Fish in Grand Canyon	109,436	77,520	65,846	11,674	17.73%	3,996	40,681	44,677	57.63%	32,843	-
19	Remote PIT Tag Reading	214,444	223,208	205,035	18,173	8.86%	134,081	62,458	196,538	88.05%	26,670	-
20	Mainstem Nonnative Fish Control	104,765	27,163	22,935	4,228	18.44%	-	27,163	27,163	100.00%	-	-
21	Near Shore Ecology / Fall Steady Flows	-	9,475	8,000	1,475	18.44%	-	3,509	3,509	37.03%	5,966	-
22	SUBTOTAL GOAL 2	1,763,644	1,660,794	1,498,955	161,840	10.80%	949,392	606,537	1,555,929	93.69%	104,866	-
23	GOAL 3 EXTIRPATED SPECIES											
24	None Identified	-	-	-	-	-	-	-	-	-	-	-
25	SUBTOTAL GOAL 3	-	-	-	-	-	-	-	-	-	-	-
26	GOAL 4 RAINBOW TROUT											
27	Monitor Lees Ferry Trout	173,542	173,541	161,434	12,107	7.50%	151,709	21,833	173,542	100.00%	-	-
28	SUBTOTAL GOAL 4	173,542	173,541	161,434	12,107	7.50%	151,709	21,833	173,542	100.00%	-	-

TABLE 1

	A	C	D	M	N	P	X	Y	Z	AA	AB	AD
5	Grand Canyon Monitoring and Research Center Project Descriptions	Approved GROSS FY10 GCMRC Budget (incl <1.3%> CPI, FY09 Carryover, Burden & Experimental Funds)	Actual GROSS FY10 Budget (incl Burden)	Actual NET FUNDS AVAILABLE (excludes Burden)	TOTAL Burden Assessed FY10	Overall Burden Rate in FY10	FY-T-D Outstanding Commitments & Obligations in FY10	FY-T-D Expenditures in FY10	TOTAL COMMITMENTS, OBLIGATIONS & EXPENDITURES IN FY10	% USED to Date in FY10	Projected Additional Spending to End of FY10	Projected Carryover to FY11
29	GOAL 5 KANAB AMBERSNAIL											
30	Monitor Kanab Ambersnail	24,442	20,090	18,355	1,735	9.45%	14,168	5,922	20,090	100.00%	-	-
31	SUBTOTAL GOAL 5	24,442	20,090	18,355	1,735	9.45%	14,168	5,922	20,090	100.00%	-	-
32	GOAL 6 SPRINGS / RIPARIAN											
33	Vegetation Mapping	94,582	85,375	72,085	13,290	18.44%	-	49,787	49,787	58.32%	35,588	-
34	Vegetation Synthesis	36,962	36,552	30,862	5,690	18.44%	-	35,632	35,632	97.48%	920	-
35	SUBTOTAL GOAL 6	131,544	121,927	102,947	18,979	18.44%	-	85,419	85,419	70.06%	36,508	-
36	GOAL 7 QUALITY OF WATER											
37	Water Quality Monitoring Lake - Powell & Tailwaters (see below - other funding)	-	-	-	-	-	-	-	-	-	-	-
38	Integrated Quality-of-Water Monitoring (Downstream of GCD)	1,011,523	955,540	854,287	101,252	11.85%	312,098	519,389	831,487	87.02%	124,053	-
39	Integrated Flow, Sediment Transport and Temperature Modeling of the CRE	306,546	325,045	300,755	24,290	8.08%	203,846	94,138	297,984	91.67%	27,061	-
40	SUBTOTAL GOAL 7	1,318,069	1,280,585	1,155,042	125,542	10.87%	515,944	613,528	1,129,471	88.20%	151,114	-
41	GOAL 8 SEDIMENT											
42	Integrated Longterm Monitoring of System Wide Changes in Sediment Storage	216,812	266,299	247,303	18,996	7.68%	230,388	27,945	258,332	97.01%	7,966	-
43	SUBTOTAL GOAL 8	216,812	266,299	247,303	18,996	7.68%	230,388	27,945	258,332	97.01%	7,966	-
44	GOAL 9 RECREATIONAL EXPERIENCE											
45	Sand Bar and Campable Area Monitoring	78,890	67,551	62,278	5,274	8.47%	53,346	10,799	64,146	94.96%	3,405	-
46	Compile Campsite Inventory and GIS Atlas	74,045	71,128	63,163	7,965	12.61%	19,958	30,981	50,939	71.62%	20,189	-
47	SUBTOTAL GOAL 9	152,935	138,679	125,441	13,239	10.55%	73,304	41,781	115,085	82.99%	23,594	-
48	GOAL 10 HYDROPOWER											
49	Monitor Power Generation and Market Values under Current and Future Dam Operations	45,316	40,881	34,518	6,364	18.44%	-	31,345	31,345	76.67%	9,537	-
50	SUBTOTAL GOAL 10	45,316	40,881	34,518	6,364	18.44%	-	31,345	31,345	76.67%	9,537	-
51	GOAL 11 CULTURAL											
52	Cultural Research & Development toward Core Monitoring, Phase II	414,257	471,530	444,911	26,619	5.98%	278,974	136,224	415,198	88.05%	56,332	-
53	SUBTOTAL GOAL 11	414,257	471,530	444,911	26,619	5.98%	278,974	136,224	415,198	88.05%	56,332	-

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54	GOAL 12 HIGH QUALITY MONITORING, RESEARCH & ADMINISTRATIVE											
55	Quadrennial & Resource-Specific Remote Sensing Overflight	193,006	200,001	168,868	31,133	18.44%	-	-	-		200,000	-
56	Integrated Image Analysis and Change Detection	231,623	262,518	232,475	30,043	12.92%	110,128	139,620	249,748	95.14%	12,770	-
57	Grand Canyon Integrated Oracle Database Management System	178,789	183,819	160,927	22,892	14.23%	58,231	89,349	147,580	80.29%	36,240	-
58	Biometrics & General Analysis	163,685	23,952	20,224	3,728	18.44%	-	21,040	21,040	87.84%	2,912	-
59	Library Operations	79,220	79,336	66,986	12,350	18.44%	12,910	47,253	60,162	75.83%	19,173	-
60	GIS Support for Integrated Analyses and Projects, GIS Lead	314,448	248,394	220,550	27,845	12.63%	110,128	104,472	214,600	86.39%	33,794	-
61	SUBTOTAL GOAL 12 DASA Portion	1,160,771	998,020	870,030	127,990	14.71%	291,396	401,734	693,130	69.45%	304,889	-
62	Logistics Base Costs (Other costs dispersed within projects)	207,519	205,753	173,725	32,028	18.44%	-	148,329	148,329	72.09%	57,424	-
63	Survey Operations	87,095	90,176	78,739	11,437	14.53%	38,024	43,419	81,443	90.32%	8,734	-
64	Control Network	177,669	170,307	146,403	23,904	16.33%	-	147,767	147,767	86.77%	22,540	-
65	SUBTOTAL GOAL 12 SUPPORT Portion	472,283	466,236	398,867	67,369	16.89%	38,024	339,515	377,539	80.98%	88,698	-
66	Enhancing the Conceptual Ecosystem Model to Identify Critical Ecosystem Interactions and Data Gaps	236,866	215,221	189,824	25,397	13.38%	82,485	76,051	158,536	73.66%	56,684	-
67	Low Steady Summer Flows - Data and Research Compilation, Synopsis and Synthesis	15,531	15,399	13,002	2,397	18.44%	-	9,477	9,477	61.55%	5,922	-
68	UBTOTAL GOAL 12 PLANNING Portion	252,397	230,620	202,826	27,794	13.70%	82,485	85,529	168,014	72.85%	62,606	-
69	Administrative Operations	144,404	257,554	228,746	28,808	12.59%	144,151	96,943	241,094	93.61%	16,459	-
70	GSA Vehicle Costs	62,699	62,179	52,500	9,679	18.44%	-	36,886	36,886	59.32%	25,293	-
71	I-Vehicle Fuel & Maintenance Costs	31,648	31,386	26,500	4,886	18.44%	-	10,349	10,349	32.97%	21,037	-
72	Program Planning & Management	1,179,939	1,156,800	971,267	179,063	18.44%	2,709	847,775	850,484	73.52%	306,316	-
73	AMWG / TWG Meeting Travel Funds	19,228	19,068	16,100	2,968	18.44%	-	11,746	11,746	61.60%	7,322	-
74	Independent Reviews (excludes Science Advisors)	13,446	1,777	1,500	277	18.44%	-	-	-	0.00%	1,777	-
75	Executive Director of Science Advisors Review and Coordination (incl Science Advisors' Expenses)	214,969	213,185	180,000	33,185	18.44%	149,270	63,915	213,185	100.00%	-	-
76	GCMRC Component of SBSC Sys Admin (IT) Support	260,793	304,527	257,681	46,846	18.18%	89,296	181,761	271,057	89.01%	33,470	-
77	SUBTOTAL GOAL12 ADMINISTRATIVE Portion	1,927,126	2,046,476	1,734,294	305,710	17.63%	385,426	1,249,375	1,634,801	79.88%	411,674	-
78	SUBTOTAL GOAL 12	3,812,577	3,741,352	3,206,017	528,864	16.50%	797,331	2,076,153	2,873,483	76.80%	867,867	-
79	GCMRC POWER REVENUES SUBTOTALS for FY2010	8,645,625	8,485,380	7,505,611	970,541	12.93%	3,329,563	3,828,643	7,158,206	84.36%	1,327,174	-

TABLE 1

	A	C	D	M	N	P	X	Y	Z	AA	AB	AD
5	Grand Canyon Monitoring and Research Center Project Descriptions	Approved GROSS FY10 GCMRC Budget (incl <1.3%> CPI, FY09 Carryover, Burden & Experimental Funds)	Actual GROSS FY10 Budget (incl Burden)	Actual NET FUNDS AVAILABLE (excludes Burden)	TOTAL Burden Assessed FY10	Overall Burden Rate in FY10	FY-T-D Outstanding Commitments & Obligations in FY10	FY-T-D Expenditures in FY10	TOTAL COMMITMENTS, OBLIGATIONS & EXPENDITURES IN FY10	% USED to Date in FY10	Projected Additional Spending to End of FY10	Projected Carryover to FY11
80	FUNDING OTHER THAN CAPPED POWER REVENUES											
81	Water Quality Monitoring - Lake Powell & Tailwaters	291,984	181,195	152,990	28,205	18.44%	-	137,338	137,338	75.80%	43,857	37,152
82	SUBTOTAL	291,984	181,195	152,990	28,205	18.44%	-	137,338	137,338	75.80%	43,857	37,152
83	Science Symposium Proceedings	-	60,555	51,226	9,329	18.21%	-	25,890	25,890	42.75%	34,666	-
84	Subtotal	-	60,555	51,226	9,329	18.21%	-	25,890	25,890	42.75%	34,666	-
85	Near Shore Ecology / Fall Steady Flows	552,825	751,454	676,351	75,102	11.10%	426,131	325,043	751,174	99.96%	279	-
86	Mainstem Nonnative Fish Control	150,000	-	-	-	-	-	-	-	-	-	-
87	Tribal River Trips	-	94,324	79,641	14,683	18.44%	-	70,688	70,688	74.94%	23,636	-
88	Subtotal	702,825	845,778	755,992	89,785	11.88%	426,131	395,732	821,862	97.17%	23,915	-
89	Experimental Study 1.A - Sand Budgeting	2,373	2,364	2,000	364	18.21%	-	2,364	2,364	100.01%	-	-
90	Experimental Study 1.C - Response of Sandbars & Select Cultural Sites	6,526	6,502	5,500	1,002	18.21%	-	6,502	6,502	99.99%	-	-
91	Experimental Study 1.D - Biological & Physical Aspects of Backwater Habitats	44,661	44,468	37,618	6,851	18.21%	-	44,464	44,464	99.99%	5	-
92	Experimental Study 3 - Aquatic Food Base Studies (Lower Trophic Levels)	5,960	5,911	5,000	911	18.21%	-	5,911	5,911	99.99%	-	-
93	Experimental Study - 7 Synthesis of Knowledge	175,000	301,279	277,193	24,087	8.69%	255,977	11,851	267,828	88.90%	33,451	-
94	Subtotal	234,520	360,524	327,311	33,214	10.15%	255,977	71,091	327,068	90.72%	33,456	-
95												
96	Total	9,874,954	9,933,432	8,793,130	1,131,074	12.86%	4,011,671	4,458,694	8,470,364	85.27%	1,463,067	37,152