



United States Department of the Interior

OFFICE OF THE SECRETARY
Washington, D.C. 20240

IN REPLY REFER TO

MEMORANDUM

To: Secretary

From: Mark Limbaugh 
Secretary's Designee, Glen Canyon Adaptive Management Program

Subject: Report and Recommendations from the Glen Canyon Dam Adaptive Management Program Federal Advisory Committee

DEC - 3 2006

The Glen Canyon Dam Adaptive Management Work Group (AMWG) convened by conference call on September 6, 2006, to discuss actions taken to meet responsibilities under the Federal Advisory Committee Act (FACA), the Grand Canyon Protection Act, and the Glen Canyon Dam Environmental Impact Statement Record of Decision. The primary purpose of the conference call was to receive recommendations to the Secretary of the Interior on Fiscal Year 2007 Glen Canyon Dam Releases and the Adaptive Management Program Budget and Work Plan. As your designee and chairman of the AMWG, and in accordance with the Group's charter under the FACA, the following recommendations are hereby formally transmitted:

Fiscal Year 2007 Hydrograph, Program Budget and Work Plan

The AMWG recommends to the Secretary of the Interior the Fiscal Year 2007 hydrograph, budget, and work plan as recommended by the Technical Work Group (TWG) with the following change: the hydrograph chart/table is modified by adding: "Note: Monthly volumes are subject to change in accordance with the final Annual Operating Plan for Colorado River Reservoirs 2007."

The motion passed by the following vote: Yes = 19; No = 1; Abstain = 1.

The referenced hydrograph and budget are provided as attachments to this memorandum. Because of its large size, the work plan is not attached but can be viewed electronically at the Upper Colorado Region Bureau of Reclamation web site. The link to this document is as follows: <http://www.usbr.gov/uc/rm/amp/amwg/mtgs/06sep06CC/index.html>.

The next AMWG meeting is scheduled for December 5-6, 2006, in Phoenix, Arizona. Agenda items will likely include the finalization of planning documents, including the Strategic Science Plan, the Monitoring and Research Plan, and the Long Term Experimental Plan; updates on ongoing research and monitoring; preparation of the FY 2008-2009 biennial budget and work plan, review of final FY 2006 budget expenditures; report from the Humpback Chub Recovery Consultation (HCBRC) Ad Hoc Group; Executive Summary of Grand Canyon Monitoring and Research Center completed science projects/reports, and a presentation on the Colorado River Storage Project Basin Fund (how rates are set and power is purchased) by Western Area Power Administration. I will forward any recommendations that arise from that meeting.

Attachments

cc list on next page.

cc: Deputy Secretary
Acting Assistant Secretary, Fish and Wildlife & Parks
Acting Assistant Secretary, Bureau of Indian Affairs
Commissioner, Bureau of Reclamation
Director, National Park Service
Director, Fish and Wildlife Service
Deputy Director, U.S. Geological Survey

Assistant Director, Wildlife Management, Arizona Game and Fish Department,
2221 W. Greenway Road, Phoenix, Arizona 85023
Attention: Bruce Taubert

Bureau of Indian Affairs, PO Box 10, Phoenix, Arizona 85001
Attention: Ms. Amy L. Heuslein

Department of Energy-WAPA, Western Area Power Administration,
150 E. Social Hall Avenue, Salt Lake City, Utah 84111
Attention: Brad Warren

The Hualapai Tribe, PO Box 179, Peach Springs, Arizona 86434
Attention: Ms. Loretta Jackson Kelly

Director, Cultural Preservation Office, The Hopi Tribe, PO Box 123,
Kykotsmovi, Arizona 86039
Attention: Leigh Kuwanwisiwma

National Park Service, Grand Canyon National Park, PO Box 129,
Grand Canyon, Arizona 86023
Attention: Joe Alston

Navajo Nation, Navajo Nation Inn Office Complex, PO Box 4950,
Window Rock, Arizona 86515
Attention: Steven Begay

Pueblo of Zuni, PO Box 339, Zuni New Mexico, 87327
Attention: Carleton Albert, Sr.

San Juan Southern Paiute Tribe, PO Box 2656, Tuba City, Arizona 86045

Southern Paiute Indian Consortium, Kaibab Paiute Indian Reservation,
Tribal Affairs Bldg., HC 65 Box 2, Pipe Springs, Arizona 86022
Attention: Mr. Charley Bulletts

State Supervisor, U.S. Fish and Wildlife Service, Arizona Ecological Services
Office, 2321 W. Royal Palm Road, Suite 103, Phoenix, Arizona 85021
Attention: Sam Spiller

Arizona Department of Water Resources, Office of Colorado River Management,
500 N. Third Street, Phoenix, Arizona 85004
Attention: Bill Werner

cc list continued on next page.

cc: Executive Director, Colorado River Board of California, 770 Fairmont Avenue,
Suite 100, Glendale, California 91203
Attention: Gerald Zimmerman

Colorado Water Conservation Board, 1313 Sherman Street, Room 718,
Denver, Colorado 80203
Attention: Rod Kuharich

Colorado River Commission of Nevada, 555 E. Washington Avenue, Suite 3100,
Las Vegas, Nevada 89101
Attention: Phillip Lehr

New Mexico Interstate Stream Commission, PO Box 25102, Santa Fe, New Mexico 87504
Attention: Jay C. Groseclose

Interstate Streams Engineer, Herschler Building, 4-E, 122 W. 25th Street,
Cheyenne, Wyoming 82002
Attention: John W. Shields

Director, Division of Water Resources, PO Box 146201, Salt Lake City, Utah 84114
Attention: Dennis Strong

Grand Canyon Wildlands Council, 7 Teypana Drive, Tijeras, New Mexico 87059
Attention: Mr. Max Oelschlaeger

President, Grand Canyon Trust, 2601 North Fort Valley Road, Flagstaff, Arizona 86001
Attention: Nikolai Ramsey

Federation of Fly Fishers, Northern Arizona Flycasters, 11475 Homestead Lane,
Flagstaff, Arizona 86004
Attention: Mark Steffen

Grand Canyon River Guides, PO Box 1934, Flagstaff, Arizona 86002
Attention: Andre Potochnik

Colorado River Energy Distributors Association, 4625 S. Wendler Drive, Suite 111,
Tempe, Arizona 85282
Attention: Ms. Leslie James

Utah Associated Municipal Power Systems, 2825 E. Cottonwood Parkway,
Suite 200, Salt Lake City, Utah 84121
Attention: Ted Rampton

Deputy Regional Director, Upper Colorado Region, U.S. Bureau of Reclamation,
125 S. State Street, Salt Lake City, Utah 84138
Attention: Darryl Beckmann

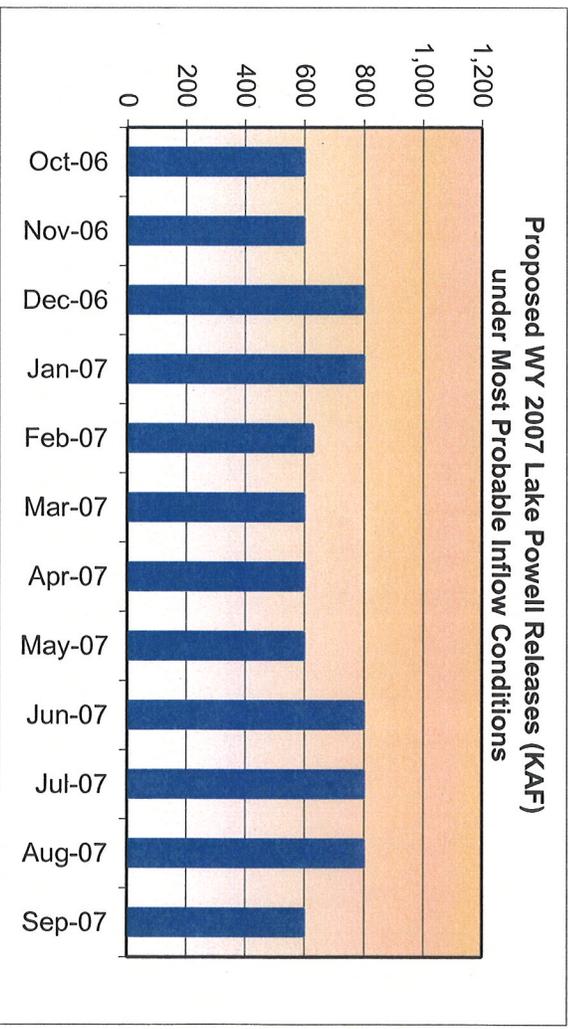
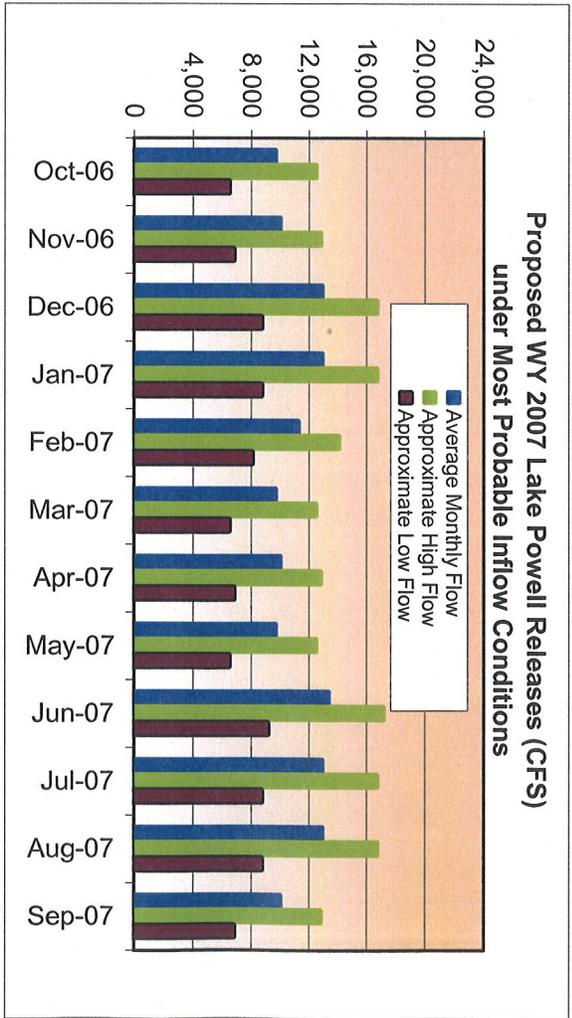
Regional Director, Upper Colorado Region, U.S. Bureau of Reclamation,
125 S. State Street, Salt Lake City, Utah 84138
Attention: Dennis Kubly
(w/budget att to each)

Glen Canyon Proposed WY 2007 Releases - August 17, 2006

Monthly Release KAF	Average Release CFS	Approx Daily CFS		Approx Daily Low CFS	Maximum Daily Range CFS	
		High	Low			
October-06	600	31	9758	12558	6558	6000
November-06	600	30	10083	12883	6883	6000
December-06	800	31	13011	16811	8811	8000
January-07	800	31	13011	16811	8811	8000
February-07	630	28	11344	14144	8144	6000
March-07	600	31	9758	12558	6558	6000
April-07	600	30	10083	12883	6883	6000
May-07	600	31	9758	12558	6558	6000
June-07	800	30	13444	17244	9244	8000
July-07	800	31	13011	16811	8811	8000
August-07	800	31	13011	16811	8811	8000
September-07	600	30	10083	12883	6883	6000
Total	8230					

Tom Ryan
8/17/2006

Note: Monthly volumes are subject to change in accordance with the final Annual Operating Plan for Colorado River Reservoirs 2007.



FISCAL YEAR 2007 BUDGET
 for the
Glen Canyon Dam Adaptive Management Program
 October 3, 2006
 (Recommended by the ANWG September 6, 2006)

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
	Project ID	Status	Category	Grand Canyon Monitoring and Research Center Descriptions	Project Budget (inc. CP Increase)	GCMRC FY06 FY07 Budget - FY07 (inc. Burden)	GCMRC DOI (Combined Burden and/or 17%)	GCMRC Project Subtotal (w/o Burden)	GCMRC Shared (Note 3)	GCMRC Project Related Travel/ Training	GCMRC Operations / Supplies	GCMRC Equipment Purchase/ Replacement	GCMRC AMP Logistics Support	Outside GCMRC & Contract Science Labor (17% Burden)	GCMRC Coop & Inter Agency Agmts (6% Burden)
52	U.S. Geological Survey - Biological Resource Division - GCMRC - Power Revenue Funded Projects														
53	GOAL 1 - FOOD BASE														
54	BIO 1.RA.07	O	R&D	Aquatic Food Base (FY07-FY09)	403,998	488,917	50,877	439,040	108,040	2,000	3,000	-	110,000	-	216,000
55	BIO 1.RA.07	N	R&D	Diet, Drift and Predation Data Analysis (FY07)	-	68,829	3,996	64,833	-	-	-	-	-	-	64,833
56	BIO 1.RA.07	N	R&D	Diet, Drift and Predation Data Analysis (FY07)	-	68,829	3,996	64,833	-	-	-	-	-	-	64,833
57					403,998	556,746	54,773	503,973	108,040	2,000	3,000	-	110,000	-	280,833
58	GOAL 2 - NATIVE FISHES														
59	BIO 2.RA.07	O	R&D	LCR HBC Monitoring Lower 15km (HBC Population Est. Ongoing)	-	388,128	26,818	361,310	12,720	-	-	-	-	-	314,590
60	BIO 2.RA.07	O	R&D	LCR HBC Monitoring Lower 15km (HBC Population Est. Ongoing)	-	37,312	2,942	34,370	2,700	-	-	-	-	-	26,370
61	BIO 2.RA.07	O	R&D	HBC Monitoring Above Crane Falls, Ongoing	53,550	73,504	5,997	67,507	2,700	-	-	-	-	-	49,807
62	BIO 2.RA.07	O	R&D	Monitoring Mainstem Fishes (Includes Diamond Down, Ongoing)	977,844	388,452	32,917	355,535	23,320	1,000	1,000	-	-	-	250,215
63	BIO 2.RA.07	O	R&D	Normative Control Planning (FY07-FY10)	-	95,144	13,824	81,320	81,320	-	-	-	-	-	-
64	BIO 2.RA.07	O	R&D	Normative Control Pilot Testing (FY07-FY10)	-	114,338	12,149	102,189	14,690	1,000	1,014	-	-	-	47,485
65	BIO 2.RA.07	O	R&D	Stock Assessment of Native Fish in Grand Canyon (FY07-Ongoing)	-	35,360	5,138	30,222	30,222	-	-	-	-	-	-
66	BIO 2.RA.07	O	R&D	Abundance Estimation Procedures (FY07-Ongoing)	-	35,360	5,138	30,222	30,222	-	-	-	-	-	-
67	BIO 2.RA.07	N	R&D	HBC SPC Preparation (FY07-FY10)	-	35,360	5,138	30,222	30,222	-	-	-	-	-	-
68	BIO 2.RA.07	N	R&D	HBC SPC Preparation (FY07-FY10)	-	35,360	5,138	30,222	30,222	-	-	-	-	-	-
69	BIO 2.RA.07	N	R&D	Yarnale Fish Habitat Data Analysis (FY07-FY10)	-	32,884	4,778	28,106	23,106	-	-	-	-	-	35,650
70	BIO 2.RA.07	N	R&D	Yarnale Fish Habitat Data Analysis (FY07-FY10)	-	21,39	2,139	19,250	19,250	-	-	-	-	-	6,000
71	BIO 2.RA.07	N	R&D	Remove F1 Tag Reading (FY07-FY09)	-	61,535	4,105	57,430	8,480	-	-	-	-	-	51,430
72	BIO 2.RA.07	N	R&D	Remove F1 Tag Reading (FY07-FY09)	-	78,434	7,914	70,520	4,240	-	-	-	-	-	37,040
73	BIO 2.RA.07	N	R&D	Test DIPSOLV Camera (FY07-FY09)	-	13,151	1,911	11,240	-	-	-	-	-	-	-
74	NA	O	R&D	Diamond Down Downstream Monitoring (See Monitoring Mainstem Fishes: BIO 2.RA.07)	81,000	-	-	-	-	-	-	-	-	-	-
75	NA	C	HCA	Warm Water Fish Monitoring Workshop (and Start-up Costs)	69,600	-	-	-	-	-	-	-	-	-	-
76	NA	C	HCA	Monitoring Parasites and Diseases	23,400	-	-	-	-	-	-	-	-	-	-
77	NA	C	EXP	Spawning Rides and Suppression Mechanisms	170,132	-	-	-	-	-	-	-	-	-	-
78	NA	C	EXP	Mechanical Removal of Normative Fish	795,192	-	-	-	-	-	-	-	-	-	-
79					2,111,318	1,428,751	130,909	1,295,842	251,241	9,000	7,014	-	178,000	-	812,697
80	GOAL 3 - EXTIRPATED SPECIES														
81	07.3.00	NA	NA	None Identified	-	-	-	-	-	-	-	-	-	-	-
82					-	-	-	-	-	-	-	-	-	-	-
83	GOAL 4 - RAINBOW TROUT														
84	BIO 4.RI.07	O	CM	Status & Trends of Less Fervid Trout (Ongoing)	156,492	122,768	7,468	115,300	-	-	-	-	-	-	116,300
85	BIO 4.RI.07	O	EXP	Evaluate Effects of Exp Flows on Rainbow Trout (FY07, Note 1)	-	48,029	2,719	45,310	-	-	-	-	-	-	45,310
86					156,492	170,797	10,187	160,610	-	-	-	-	-	-	155,610
87	GOAL 5 - KANAB AMBERSNAIL														
88	BIO 5.RI.07	O	R&D	Monitor Kanab Ambersnail (FY98-FY10)	88,832	32,727	3,286	29,441	3,817	-	-	-	-	-	10,000
89	BIO 5.RI.07	O	R&D	Monitor Kanab Ambersnail (FY98-FY10)	88,832	32,727	3,286	29,441	3,817	-	-	-	-	-	10,000
90					88,832	32,727	3,286	29,441	3,817	-	-	-	-	-	15,624
91					88,832	32,727	3,286	29,441	3,817	-	-	-	-	-	15,624

FISCAL YEAR 2007 BUDGET
for the
Glen Canyon Dam Adaptive Management Program
October 3, 2006
(Recommended by the ANWG September 6, 2006)

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
GCMRC Project ID	Status	Category	Grand Canyon Monitoring and Research Center Descriptions	Project Budget (inc. CP Increase)	GCMRC FY06 FY07 Budget - Gross (inc. Burden)	GCMRC DOI Customer Burden (Combined 6 and/or 17%)	GCMRC Project Subtotal (w/o Burden)	GCMRC Salaries (Note 4)	GCMRC Project Related Travel/ Training	GCMRC Operations/Supplies	GCMRC Equipment Purchase/ Replacement	GCMRC AMP Logistics Support	GCMRC & Contract Science Labor (17% Burden)	GCMRC Coop. & Inter Agency Apts. (% Burden)
52 U.S. Geological Survey - Biological Resource Division - GCMRC - Power Revenue Funded Projects														
52 GOAL 6 - SPRINGS / RIPARIAN														
91	O	R&D	Vegetation Mapping (FY07-FY10)	16,632	112,486	16,346	96,150	72,150	3,000	1,000	-	20,000	-	-
92	O	R&D	Vegetation Transects (FY07-FY10)	-	59,501	6,301	81,700	1,400	290	250	-	20,000	-	59,300
93	O	R&D	Vegetation Synthesis (FY07-FY10)	-	69,502	7,782	58,720	31,720	2,500	4,500	-	-	-	20,000
94	O	R&D	Vegetation Synthesis (FY07-FY10)	16,632	274,499	32,439	242,070	111,270	6,750	6,750	-	40,000	-	79,300
SUB-TOTAL GOAL 6				16,632	274,499	32,439	242,070	111,270	6,750	6,750	-	40,000	-	79,300
95 GOAL 7 - QUALITY-OF-WATER														
96	O	R&D	Water Quality Monitoring Lake - Powell & Tailwaters (Budget presented below, FY07-FY09)	-	-	-	-	-	-	-	-	-	-	-
97	N	CM	Integrated Quality-of-Water Monitoring (Downstream of GCD, FY07-Ongoing)	659,947	879,852	127,842	752,010	175,854	16,000	30,000	10,000	50,000	470,156	-
98	N	R&D	Modeling Support Linked with Integrated Quality-of-Water Monitoring (FY07-FY08)	-	76,465	11,110	65,355	-	-	-	-	-	65,355	-
99	N	R&D	Fine-Grained Sediment Storage Monitoring Project (FIS1) (Note 8)	271,625	-	-	-	-	-	-	-	-	-	-
100	C	R&D	Sub-TOTAL GOAL 7	1,131,572	956,317	138,952	817,365	175,854	16,000	30,000	10,000	50,000	535,511	-
101 GOAL 8 - SEDIMENT														
102	N	CM	See REC 9.R1.07 (SEDS-PEP Review in FY06 w/ Core Monitoring Planning & Development in FY07, New Project in FY08)	-	-	-	-	-	-	-	-	-	-	-
103	N	CM	Sub-TOTAL GOAL 8	-	-	-	-	-	-	-	-	-	-	-
104 GOAL 9 - RECREATIONAL EXPERIENCE														
105	O	R&D	Sand Bar and Campable Area Monitoring (FY07-FY11)	86,287	130,208	10,458	119,750	5,750	1,500	2,500	-	15,000	5,000	90,000
106	N	R&D	Evaluate Campable Area Monitoring Results Using Measured Field Data vs. Remotely Sensed Data (FY07)	-	47,031	2,714	44,317	-	-	500	-	-	-	43,817
107	N	R&D	Complete Campable Inventory and GIS Atlas (FY07-FY08)	-	64,445	7,425	57,020	16,400	2,500	2,500	-	15,000	-	20,620
108	N	R&D	Sub-TOTAL GOAL 9	86,287	241,684	20,597	221,087	22,150	4,000	5,500	-	30,000	5,000	154,437
109 GOAL 10 - HYDROPOWER														
110	N	CM	Monitor Power Generation and Market Values under Current and Future Dam Operations (FY07-Ongoing)	-	18,135	2,635	15,500	15,000	-	500	-	-	-	-
111	N	CM	Sub-TOTAL GOAL 10	-	18,135	2,635	15,500	15,000	-	500	-	-	-	-
112 GOAL 11 - CULTURAL														
113	O	R&D	Research & Development toward Core Monitoring (FY07-Note 10)	-	316,418	37,093	279,325	-	3,000	16,000	48,000	50,000	67,850	94,475
114	N	R&D	Implement Tribal Monitoring Projects (See funding in BOR section)	29,250	-	-	-	-	-	-	-	-	-	-
115	C	CM	Integrated Tribal Resource Monitoring	374,401	-	-	-	-	-	-	-	-	-	-
116	C	CM	Integrated Archaeological Site Monitoring (Note 10)	403,551	316,418	37,093	279,325	-	3,000	16,000	48,000	50,000	67,850	94,475
117	C	CM	Sub-TOTAL GOAL 11	403,551	316,418	37,093	279,325	-	3,000	16,000	48,000	50,000	67,850	94,475

FISCAL YEAR 2007 BUDGET
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A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	
Project ID	Status	Category	Grand Canyon Monitoring and Research Center Descriptions	Project Description	GCMRC FY06 Budget (inc. CR Increase)	GCMRC Proposed FY07 Budget - Gross (inc. Burden)	GCMRC DOI Customer Burden (Combined 6 and/or 17%)	GCMRC Project Subtotal (w/o Burden)	GCMRC Salaries (Note 4)	GCMRC Project Related Travel/ Training	GCMRC Operators/Supplies	GCMRC Equipment Purchase/Replacement	GCMRC AMP Logistics Support	Outside GCMRC & Contract Science Labor (17% Burden)	GCMRC Coop & Inter Agency Agmts (5% Burden)
118	GOAL	12	HIGH QUALITY MONITORING, RESEARCH & A&M												
119	DASA	12D1407	O	DASA (Ongoing)	32,877	148,400	8,400	140,000	-	-	-	-	-	-	140,000
120	DASA	12D2407	O	DASA (Ongoing)	157,105	171,445	24,911	146,534	122,034	2,000	2,500	-	-	-	20,000
121	DASA	12D3407	O	DASA (Ongoing; Note 7)	168,005	48,745	7,083	41,662	31,982	3,000	6,700	-	-	-	-
122	DASA	12D4407	O	DASA (FY07-FY11)	-	104,463	15,178	89,285	58,595	-	30,700	-	-	-	-
123	DASA	12D5407	O	DASA (Ongoing; Note 7)	186,017	231,704	29,277	202,427	123,542	4,000	28,200	-	-	-	46,595
124	DASA	12D6407	N	DASA (FY07-08)	-	84,199	4,786	79,413	-	-	-	-	-	-	79,413
125	NA		C	DASA Channel Mapping	32,877	-	-	-	-	-	-	-	-	-	-
126				Sub-total Goal 12 DASA Portion:	576,887	788,956	89,615	699,341	336,123	9,000	68,100	-	-	-	20,000
127	SUP	12S1407	O	SUP (Ongoing)	122,616	135,252	19,652	115,600	80,600	-	-	35,000	-	-	-
128	SUP	12S2407	O	SUP (Ongoing)	118,572	112,082	16,285	95,797	50,797	5,000	5,000	20,000	15,000	-	20,000
129	SUP	12S3407	O	SUP (Ongoing)	138,270	126,486	16,489	109,997	63,987	3,000	-	-	23,000	-	20,000
130				Sub-total Goal 12 Support Portion:	379,458	373,821	52,427	321,394	195,384	8,000	5,000	55,000	38,000	-	20,000
131	PLAIN	12P1407	N	R&D	-	-	-	-	-	-	-	-	-	-	-
132	PLAIN	12P2407	N	R&D	-	46,800	6,800	40,000	-	-	-	-	-	-	10,000
133				Sub-total Goal 12 Planning Portion:	-	46,800	6,800	40,000	-	-	-	-	-	-	10,000
134	ADM	12A1407	O	ADM (Ongoing)	772,545	790,942	114,923	676,019	144,769	25,000	5,000	-	-	-	-
135	ADM	12A2407	O	ADM (Ongoing)	566,444	908,802	132,048	776,754	716,504	40,250	20,000	-	-	-	-
136	ADM	12A3407	O	ADM (Ongoing)	17,550	17,550	2,550	15,000	15,000	15,000	-	-	-	-	-
137	ADM	12A4407	O	ADM (Ongoing)	380,250	275,514	39,101	236,413	31,513	7,000	1,000	-	-	-	187,000
138	ADM	12A5407	O	ADM (Ongoing)	354,510	320,438	46,559	273,879	-	4,000	70,000	100,000	-	-	99,879
139	ADM	12E1407	O	EXP	-	-	-	-	-	-	-	-	-	-	-
140	NA		O	ADM (Ongoing)	29,250	-	-	-	-	-	-	-	-	-	-
141	NA		C	ADM (Ongoing)	29,250	-	-	-	-	-	-	-	-	-	-
142	NA		C	ADM (Ongoing)	87,750	-	-	-	-	-	-	-	-	-	-
143	NA		C	ADM (Ongoing)	-	-	-	-	-	-	-	-	-	-	-
144				Sub-total Goal 12 Administrative/Management Portion:	2,237,548	2,313,247	335,782	1,978,065	897,788	83,000	608,600	700,000	38,000	-	296,879
145				Sub-TOTAL GOAL 12:	3,193,688	3,822,834	484,034	3,038,800	1,424,303	125,000	683,600	155,000	38,000	-	316,879
146				GCMRC Power Revenue Subtotal Projected for FY2007:	7,592,370	7,518,907	914,894	6,604,013	2,121,675	164,750	751,364	241,000	511,000	-	925,240

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U.S. Geological Survey - Biological Resource Division - GCMRC - Power Revenue Funded Projects														
147														
148			U.S. Geological Survey - Biological Resource Division - GCMRC - NON-Power Revenue Funded Projects											
149	BIO 7.R1.07	R&D	Water Quality Monitoring - Lake Powell & Tailwaters (FY07-09)	215,250	226,659	32,933	193,726	147,498	10,506	16,013	5,000	14,709	-	-
150	BIO TBD	R&D	Glen Canyon Dam TOD Experimental Studies (Note 9)	170,000	200,000	-	-	-	-	-	-	-	-	-
151			GCMRC Other Agreement Funded Project Subtotal	385,250	426,659	32,933	193,726	147,498	10,506	16,013	5,000	14,709	-	-
152			GCMRC TOTAL AMP FY2007 PLANNED PROGRAM COSTS:	7,977,620	7,946,666	947,827	6,797,739	2,269,473	175,256	767,377	246,000	528,709	925,240	1,888,984
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156			BOR & USGS-GCMRC AMP PROGRAM COSTS	FISCAL YEAR 2006	FISCAL YEAR 2007									
157			BOR Power Revenue Program Costs	1,320,426	1,725,222									
158			GCMRC Power Revenue Program Costs (gross)	7,592,370	7,518,907									
159			Subtotal BOR & GCMRC Power Revenue Program Costs	8,912,796	9,244,129									
160			BOR Non-Power Revenue Program Costs	477,375	475,000									
161			GCMRC Non-Power Revenue Program Costs	385,250	426,659									
162			Subtotal BOR & GCMRC Non-Power Revenue Program Costs	862,625	901,659									
163			Estimated Cost Share expense required by USGS policy	1,000,000	1,000,000									
164			TOTAL AMP PROGRAM COSTS (BOR & GCMRC):	10,775,421	11,145,789									
165														
166			FUNDING:	FY 2006	FY 2007									
167			USBR & USGS Power Revenues under cap	8,974,894	9,244,131									
168			FY06 Carry Over	-	-									
169			USGS Appropriations	1,095,000	1,095,000									
170			USBR Appropriations	295,000	295,000									
171			NPS Appropriations	95,000	95,000									
172			FWS Appropriations	95,000	95,000									
173			BIA Appropriations	95,000	95,000									
174			BOR Operations & Maintenance (QAMP)	215,250	226,659									
175			TOTAL AVAILABLE FUNDS	10,865,134	11,145,790									
176			TOTAL FUNDING NEEDED	10,775,421	11,145,789									
177			TOTAL AVAILABLE FUNDS - ESTIMATED COSTS	89,713	1									

Note: FY06 increased at 4.6% CPI; Other years' costs estimated increases @ 3% CPI per historic average.

Note: Tribal Participation and \$1M dollars of Burden/Cost Share Assistance Funding

Note: Tribal Participation and Environmental Research Agreement (TOD) Funding

Note: Tribal Participation Funding

Note: Tribal Participation Funding

Note: Tribal Participation Funding

FISCAL YEAR 2007 BUDGET
for the
Glen Canyon Dam Adaptive Management Program
October 3, 2006
(Recommended by the AMWG September 6, 2006)

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
GCMRC Project ID	Status	Category	Grand Canyon Monitoring and Research Center Descriptions	GCMRC FY06 Budget (inc. CPI Increase)	GCMRC Proposed FY07 Budget - Gross (inc. Burden)	GCMRC DOI Customer Burden (Combined 6 and/or 17%)	GCMRC Project Subtotal (w/o Burden)	GCMRC Salaries (Note 4)	GCMRC Project Related Travel/ Training	GCMRC Operations / Supplies	GCMRC Equipment Purchase / Replacement	GCMRC AMP Logistics Support	Outside GCMRC & Contract Labor (17% Burden)	GCMRC Coop & Inter Agency Agms (6% Burden)
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52 U.S. Geological Survey - Biological Resource Division - GCMRC - Power Revenue Funded Projects														
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NOTES TO SPREADSHEET														
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Notes of changes made to spreadsheet from SPG meetings held July 5-7 and July 18, 2006 --

181 Note 1: Line 85, BIO 4.E1.07, Evaluating Effects of Exp Flows on Rainbow Trout (FY07) funded by reducing FY07 Submerged Aquatic Vegetation Study by half from \$96,034 to \$48,000.

182 Note 2: Balance of FY07 Submerged Aquatic Vegetation Study (\$48,000 gross) and the Economic Analysis of Experimental Flows (\$146,200 gross) redirected to create funding availability of \$194,200.

184 With this funding, determined the following items would be funded: LCR gage \$30,000 net (\$35,100 gross; added to N97); integrated Tribal Resource Monitoring, \$125,000 net (\$132,500 gross, held by BOR in F23); Protocol evaluation panel (PEP) on trout at Lees Ferry, \$20,000 net (\$23,400 gross, added to Line 137); and additional funding to the MPS for permit facilitation, \$7,000 gross (removed from GCMRC budget and will be provided to MPS by BOR via an interagency agreement, F20). Additional note to file - the gross amount of these additional items equals \$199,000 which is \$3,800 over the identified funding and integrated under Administrative Operations, Line 134.

187 Note 3: Removed BOR portion of budget "Tribal River Trips for Consultation" which had been combined with current section "Agreements with Tribes".

189 Notes of changes made to spreadsheet after TWG meeting held August 2-3, 2006 --

190 Note 4: Column "I", This column heading and entries were changed to include only GCMRC salaries. Other USGS salaries were added to column "N" Outside GCMRC & Contract Science Labor.

191 Note 5: Line 68, BIO 2.R10.07, HBC PEP Preparation funding (approx. \$14,000) was redirected to the Little Colorado River Humpback Chub Monitoring of the Lower 15km (Line 59; BIO 2.R1.07) after discussion between USFWS and the GCMRC Program Manager.

192 USFWS HBC work underfunded; PEP planning preparation will be subsumed under other FY07 planning tasks.

193 Note 6: FY08 Estimated Budget column removed per USBR request in discussion between USBR and GCMRC on 8/12/06.

194 Note 7: Moved \$50,000 net in equipment costs from L120 and \$50,000 net in equipment costs from L123 and combined these costs in L138. In FY08 the equipment purchase was listed here and moving the budget to DASA created a difficult situation within SSSC and it was decided to restore the funding to the "I" support line for FY07. The purchase plan, management and oversight of the equipment rests with GCMRC as it always has.

197 Notes of changes and clarifications made to spreadsheet after AMWG approval, conference call meeting held September 6, 2006 --

198 Note 8: Line 99, Column E -- Added line to correctly show that the \$271,625 shown in Col. E, as FY08 funding was for the Fine-grained Sediment Storage Project (FIST) and not for the new FY07 project identified as Modeling Support Linked with Integrated Quality-of-Water Monitoring (FY07-FY08)

199 Note 9: D150, Changed the title of the agreement from the previous title: "Environmental Resource and Compliance" to the title of the new agreement beginning in FY2006 "Glen Canyon Dam Temperature Control Device (TCD) Experimental Studies".

200 Note 10: Lines 113, FY07 Project CLL, 11.R1.07, "Research and Development toward Core Monitoring" continues RAD initiated in FY06, Line 116, "Integrated Archaeological Site Monitoring".

201 Note 11: A "NOTES" header was inserted to help draw attention to the notes section (line 179).

202 Note 12: Line and column identifiers in "Notes" section, above, were updated to address line adjustments to the budget spreadsheet.

203 Note 13: Funding amounts were added to "Notes" section, above, to help clarify changes made.

204 Note 14: "Notes" were inserted in chronological order and renumbered to assist with clarification.

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208 Notes revised on 10/02/06 by Christine Beard, 928-556-7219, cbeard@usgs.gov