

**Reporting Schedule for Experimental Studies Associated with the March 2008 High Flow Experiment**

<b>Experimental Study</b>	<b>Description</b>	<b>Lead</b>	<b>Preliminary Report(s)<sup>1</sup></b>	<b>Draft Report<sup>2</sup></b>	<b>Final Report<sup>3</sup></b>
	<b>Sediment, archaeological sites, and backwaters</b>				
1.A. Sand Transport & budgeting	Data will be collected to determine the amount of sediment available in the system and its availability for rebuilding and maintaining sandbars and camping beaches, spatial patterns of erosion and deposition, and changes in sediment grain size	Topping	April 2008 and ongoing (with requisite USGS preliminary data notice)	June 2009 (with colleague review completed and Director approval)	Six months after submittal to journal or December 2009
1.B. Eddy-sandbar evolution & modeling studies	Data will be collected on the evolution of specific eddy sandbars before, during, and after a high flow. These data may be used to improve the predictive capabilities of the existing sediment model and determine the optimal peak flows of future high-flow experiments.	Wright	November 2008 (repeat bathymetry), May 2009 (velocity mapping)	May 2009 (bathymetric mapping), Dec 2009 (velocity and sediment transport dynamics)	January 2010
1.C. Response of sandbars at selected cultural and recreational sites	Data will be gathered to determine (1) if sandbars throughout the Colorado River ecosystem gain or lose sand as the result of a sand-enriched high flow, (2) if new sand can offset gully erosion, and (3) if enlarged sandbars provide source material for the windborne transport of sand upslope into archaeological sites.	Schmidt	August 2008	August 2009	January 2010
1.D. Response of sandbars at selected backwater habitats	Measure backwater habitats and sample them for fish in spring and fall to evaluate how (a) backwaters formed by a high flow change over time and (b) how fish, particularly humpback chub, use backwaters	Grans	August 2008 (results of BW inventory only). Preliminary fish reporting December 2008	August 2009 (per PG)	December 2009
Synthesis of Study 1	A synthesis report will be prepared on the results of 2008 HFE studies 1.A – 1.D	Schmidt and others	May 2009	December 2009	May 2010
	<b>Riparian vegetation</b>				
2. Riparian vegetation studies	Study will document changes in riparian vegetation (native versus nonnative) following a high flow to determine if disturbances influence the success rate of nonnative species	Ralston	November 2008 and ongoing with USGS preliminary data notice	August 2009 (reviewed/approved)	January 2010
	<b>Aquatic food base</b>				
3. Food availability	Data will be collected to determine how high-flow experiments affect the quantity and quality of food available to invertebrates and, ultimately, fish.	Kennedy	May 2008 and ongoing with USGS preliminary data notice	August 2009	January 2010
	<b>Rainbow trout</b>				
4.A. Redds study	Data will be collected to determine how high-flow experiments affect the quantity and quality of food available to invertebrates and, ultimately, fish.	Korman	December 2008 and ongoing with USGS preliminary data notice	December 2009	January 2010
4.B. Movement study	Study will collect data to determine if high-flow experiments displace rainbow trout from Lees Ferry and if displacement varies by fish length	Hilwig	May 2008 and ongoing with USGS preliminary data notice	December 2008	March 2009
	<b>Lake Powell</b>				
5. Lake Powell	Data to determine if a high flow results change in reservoir stratigraphy and release water quality	Vernieu	May 2008 and ongoing with USGS preliminary data notice	December 2008	March 2009

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6. Kanab ambersnail	To minimize impacts to an endangered species, Kanab ambersnail habitat at Vaseys Paradise will be moved	AZGFD	NA	January 2009	June 2009
7. Synthesis of knowledge	<p align="center"><b>Knowledge synthesis</b></p> Data and knowledge gained as the result of the 2008 and previous 2 high-flow tests will be synthesized across resource areas and disciplines in an attempt to address strategic science questions	Schmidt and others	Late 2009	Fall 2010 – possibly as a USGS Circular	January 2011 – possibly as a USGS Circular

1. Preliminary Report – Oral/PPT presentation to TWG/AMWG – Preliminary results that have undergone internal colleague review
2. Draft Report – Oral/PPT presentation to TWG/AMWG – Draft reports that have undergone external peer review
3. Final Report – Oral/PPT presentation to TWG/AMWG; Final written report, databases, models