Federal Agency Resources Available to Share During Mussels Rapid Response in Western Waters *as appropriate and pending availability, as of January 2022

This list was developed to advance the Federal interagency Memorandum of Understanding to support rapid response actions for invasive zebra and quagga mussels in western waters of the United States by identifying Federal resources that could be shared to strengthen rapid response actions. The list will be reviewed and updated annually as needed. If you have questions about this list, please contact Hilary Smith, Senior Advisor for Invasive Species, U.S. Department of the Interior, hilary_smith@ios.doi.gov.

Agency Resources that may be Available Resource Description, including any conditions or limitations Is the Resource limited to a specific geography?						Contact Res	onsible for Coordinating Resource Deployment			
				First Name	Last Name	Title	Address	Email	Phone	
BIA	Funding	BIA can provide funding to Tribes and Tribal organizations for rapid response.	Funding must benefit Tribal resources	David	Wooten	Chief, Branch of Fisheries, Wildlife, and Recreation	1001 Indian School Road, NW, Suite 343-B Albuquerque, NM 87104	david.wooten@bia.gov	505-563-3128	
вім	Funding	BLM can provide funding to support state efforts for containmant on the Lower Colorado River.	AZ, CA, and southern NV in the Lower Colorado River Corridor	Elroy	Masters	Fish and Wildlife Program Lead	One North Central Ave, Suite 800, Phoenix AZ 85004	emasters@blm.gov	602-417-9346	
BLM	Decontamination Unit	BLM -AZ Lake Havasu Field Office has a mobile decon unit and team to support efforts on the Lower Colorado River.	AZ, CA, and Southern NV in the Lower Colorado River Corridor	Elroy	Masters	Fish and Wildlife Program Lead	One North Central Ave, Suite 800, Phoenix AZ 85004	emasters@blm.gov	602-417-9346	
NPS	Boats	NPS units with boatable waters, including western units with quagga / zebra management programs, have boats. Number, type, size capacity vary from park to park. Park boats would be available to reponse actions within park waters. Availability outside park boundaries would be subject to request and Superintendent approval.	Nationwide	John	Wullschleger	NPS Fish / Aquatic Invasive Species Lead	1201 Oakridge Drive, Suite 250 Fort Collins, CO 80525	john_wullschleger@nps.gov	970-225-3572	
NPS	Staff time / manpower	NPS Fish / Aquatic Invasive Species lead available for coordination of rapid response activities. Regional points of contact may be available as needed for response within their region. Park staff available for rapid response in park waters. Availability outside of park boundaries subject to request and superintendent approval.	Nationwide	John	Wullschleger	NPS Fish / Aquatic Invasive Species Lead	1202 Oakridge Drive, Suite 250 Fort Collins, CO 80525	john_wullschleger@nps.gov	970-225-3572	
NPS	Decontamination Units	Parks with quagga / zebra mussel management programs have decontamination units. Number, type, and capability is variable. This equipment would be available for rapid response actions within a park. Availability for activities outside parks boundaries would be subject to request and superintendent approval.	Western Parks with quagga / zebra mussel management programs	John	Wullschleger	NPS Fish / Aquatic Invasive Species Lead	1203 Oakridge Drive, Suite 250 Fort Collins, CO 80525	john_wullschleger@nps.gov	970-225-3572	
NPS	Divers / Dive Teams	NPS has a national dive program with a focus on submerged cultural resources. A number parks also maintain dive programs which often focus on specific issues, resources or tasks (e.g., cultural / biological surveys, search and rescue). Divers would likely be available for rapid response actions within park waters. Availability outside of NPS areas or for work not within their scope of duties would be subject to request and supervisor approval.	Nationwide	John	Wullschleger	NPS Fish / Aquatic Invasive Species Lead	1204 Oakridge Drive, Suite 250 Fort Collins, CO 80525	john_wullschleger@nps.gov	970-225-3572	
NPS	Lab Services	Glen Canyon National Recreation Area maintains a lab with veliger identification and eDNA analysis capability but capacity is limited and it is not base funded at this time.	Western United States	Billy	Shott	Glen Canyon National Recreation Area, Superintendent	601 Nevada Way Boulder City, NV 89005	billy_shott@nps.gov	702-293-8990	

Agency	Resources that may be Available	Resource Description, including any conditions or limitations	Is the Resource limited to a specific geography?	Contact Responsible for Coordinating Resource Deployment					
				First Name	Last Name	Title	Address	Email	Phone
		Reclamation's Ecological Research Laboratory provides expertise needed to detect invasive and endangered species in habitats associated with water resources management projects. Other expertise include, terrestrial and aquatic habitat and endangered species monitoring at construction and revegetation sites, development and implementation of integrated pest management							
		plans, taxonomic and molecular identification of environmental samples, and bacteria community identification. Disciplines include chemistry, molecular biology, botany, entomology, water quality, engineering, limnology and ecology. Detection methods utilized in the laboratory include: microscopy, spectrophotometry,					Denver Federal Center		
Reclamation	Lab Services (see desciption)	polymerase chain reaction, gene sequencing, genetic barcoding and FlowCAM imaging technologies.	States States	Jolene	Trujillo	Reclamation's Integrat	6th & Kipling, Bldg 67 Denver, CO 80225	Jtrujillo@usbr.gov	303-445-2903
		Reclamation's Columbia River Basin has a Regional Lab that can assist with monitoring/collection, PLM analysis, and standard water					1150 North Curtis Road, Suite 100		
Reclamation	Lab Services	Quality	ID, WA, OR and western Montana	Heidi	McMaster	Coordianator	Boise, Idaho 83706-1234	hmcmaster@usbr.gov	208-378-6209
Reclamation	Disa Taon	Reclamation's Columbia River Basin has a Regional dive team that could be mobilized to support diving operations in the Columbia River Basin.	ID, WA, OR and western Montana	Heidi	McMaster	Columbia Pacific Northwest Region IPM/Invasive Species Coordianator	1150 North Curtis Road, Suite 100	haranada Quaha ana	208-378-6209
Reciamation	Dive Team	NIVEL DASIII.	ib, wa, on and western worthan	rieldi	iviciviastei	COOTUIANALOI	Boise, Idaho 83706-1234	hmcmaster@usbr.gov	208-378-0209
Reclamation	Staff time	Reclamation's Ecological Research Lab can support rapid response actions with personnel from a diverse range of professional backgrounds.	Supports the 17 Western United States	Sherri	Pucherelli	Ecological Research Laboratory Mussels Task Force Rep	Denver Federal Center , 6th & Kipling, Bldg 56, Denver, CO 80225	spucherelli@usbr.gov	303-445-2015
Reclamation	Posts	Reclamation's Ecological Research Laboratory has access to boats. Number, type, and size capacity vary across the West.	Supports the 17 western United States	Sherri	Pucherelli	Ecological Research Laboratory Mussels Task Force Rep	Denver Federal Center , 6th & Kipling, Bldg 56, Denver, CO 80225	spucherelli@usbr.gov	303-445-2015
RECIDINATION	podis	realised, type, and size capacity valy across the west.	Junes	SHELLI	i ucherelli	Ecological Research	Denver Federal Center , 6th	apacinet etitle usur .gov	303-443-2013
Reclamation	Dive Team	A dive team that could be mobilized to support diving operations across the West.	Supports the 17 western United States	Sherri	Pucherelli	Laboratory Mussels Task Force Rep	& Kipling, Bldg 56, Denver, CO 80225	spucherelli@usbr.gov	303-445-2015
			Supports the 17 western United			Ecological Research Laboratory Mussels	Denver Federal Center , 6th & Kipling, Bldg 56, Denver,		
Reclamation	Remotely Operated Vehicles	Underwater viewing/filming capacity.	States	Sherri	Pucherelli	Task Force Rep	CO 80225	spucherelli@usbr.gov	303-445-2015

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				First Name	Last Name	Title	Address	Email	Phone	
							125 South State Street,			
						Upper Colorado Basin	Room 8100			
		Reclamation's Upper Colorado Basin Region has boats. Number,				Mussels Task Force	Salt Lake City, UT 84138-			
Reclamation	Boats	type, and size capacity vary across the Region.	UT, NM, western Colorado	Robert	Radtke	Rep	1102	rradtke@usbr.gov	801-524-3719	
		USACE can provide Non-Federal Sponsor's funding for Rapid								
		Response Actions, provided there is an active Cost-Share								
		Agreement under 33 USC 610 for those purposes.								
		Under an active agreement USACE can also sect share a Non								
		Under an active agreement, USACE can also cost-share a Non- Federal Sponsor's acquisition of Rapid Resposne equipment,								
		training, and response exercises.								
		draining, and response exercises.								
		Currently, USACE has authority to enter into cost-share agreements				Project Manager for				
		with states to protect the Columbia River Basin, Upper Missouri				USACE's Aquatic				
		River Basin, South Platte River Basin, Upper Colorado River Basin,	Western States with Active Cost-			Invasive Species Cost-				
USACE	Funding	Russian River Basin, and Arkansas River Basin.	Share Agreements	Alex	Colter	Share Program		alex.j.colter@usace.army.mil	509-527-7254	
						National Program				
		USACE can support rapid response actions with personnel from a				Manager for Land Use				
		diverse range of professional backgrounds. Labor resourcing can be				and Natural				
		provided to USACE personnel through the Aquatic Plant Control				Resources, USACE	441 G Street NW,			
USACE	Man Power	Program.	No	Jeremy	Crossland	Headquaters.	Washington, DC 20314	jeremy.m.crossland@usace.army.mil	202-761-4259	
		Depending on region, USACE has some inhouse dive teams that								
		could be deployed to support rapid response actions, labor would								
		be funded through the USACE's Aquatic Plant Control Program								
		Funding.				National Program				
		Additionally, the USACE maintains several contracts for Diver				Manager for Land Use				
		Support that could be leveraged to support rapid response actions.				and Natural				
		Actions would be supported through Aquatic Plant Control Program				Resources, USACE	441 G Street NW,			
USACE	Inhouse Dive Team(s) and Dive Contracts	Funds.	No	Jeremy	Crossland	Headquaters.	Washington, DC 20314	jeremy.m.crossland@usace.army.mil	202-761-4259	
	(-)			,			Center for Bottomland			
		The Forest Service Southern Region and Southern Research Station					Hardwoods Research 1000			
		has scientific and commercial divers with taxonomic expertise that				Regional Diving Safety	Front St		662-234-2744	
USFS	Dive Team	could be mobilized to support diving operations in the West.	No	Zanethia	Barnett	Officer R8/SRS	Oxford, MS 38655	zanethia.c.barnett@usda.gov	x268	
		The Forest Service, Pacific Northwest Region and Pacific Northwest								
		Research Station has scientific and commercial divers with					Corvallis Forestry Sciences			
		taxonomic expertise that could be mobilized to support diving				Regional Dive Safety	Lab, 3200 SW Jefferson			
USFS	Dive Team	operations.	No	Bruce	Hansen	Officer R6/PNW	Way, Corvallis OR 97331	bruce.hansen@usda.gov	541-750-7311	
						Regional Aquatic				
		Certified team for mussels; requested through regional aquatic				Invasive Species	124 Union Dlud Cto CCE			
HEENE	Dive Teems	invasive species coordinator; as requested by partners following	Na		Cuadu	Coordinator, DOI	134 Union Blvd, Ste 665,	issans and of us as	202 042 5260	
USFWS	Dive Team	veliger or adult findings, and for early detection in Fort Peck Lake.	No	Joanne	Grady	Regions 5 and 7 Regional Aquatic	Lakewood, CO 80228	joanne_grady@fws.gov	303-842-5268	
					1	Invasive Species				
					1	Coordinator, DOI	134 Union Blvd, Ste 665,			
USFWS	Remotely Operated Vehicle	Underwater viewing/filming capacity.	CO, KS, MT, ND, NE, SD, UT, WY	Joanne	Grady	Regions 5 and 7	Lakewood, CO 80228	joanne_grady@fws.gov	303-842-5268	
	/ - p	U, U	, , , , , , , , , , , , , , , , , , , ,	1	1	Regional Aquatic	,	0,		
		USFWS maintains three trailered hot water pressure washers at	Most likely eligible within station's			Invasive Species				
		stations in UT, CO, and MT that could be called up for a short term	state, but could be made available		1	Coordinator, DOI	134 Union Blvd, Ste 665,			
USFWS	Hot water pressure washer	rapid response.	within western United States	Joanne	Grady	Regions 5 and 7	Lakewood, CO 80228	joanne_grady@fws.gov	303-842-5268	

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						Regional Aquatic				
			Most likely eligible within station's			Invasive Species				
		USFWS Fish & Wildlife Conservation Offices maintain watercraft for	state, but could be made available			Coordinator, DOI	134 Union Blvd, Ste 665,			
USFWS	Boats	fish sampling and invasive carp detecion.	within western United States	Joanne	Grady	Regions 5 and 7	Lakewood, CO 80228	joanne_grady@fws.gov	303-842-5268	
						Regional Aquatic				
						Invasive Species				
		USFWS Regional Aquatic Invasive Species Coordinators would be				Coordinator, DOI	134 Union Blvd, Ste 665,			
USFWS	Staff time	able to assist with rapid response planning and communication.	Dependent on location	Joanne	Grady	Regions 5 and 7	Lakewood, CO 80228	joanne_grady@fws.gov	303-842-5268	
						Aquatic Invasive	12201 Sunrise Valley Drive,			
		USGS maintains genetic and taxonomic expertise in dreissenid				Species Program	MS300			
USGS	Lab Services (Identification, eDNA ID tools)	mussels and can help with species identification.	No	Patrick	Kocovsky	Manager	Reston, VA 20192	pkocovsky@usgs.gov	571-205-1487	