



SOUTH DAKOTA GAME, FISH and PARKS

Role of Inter-agency Cooperation in AIS Prevention

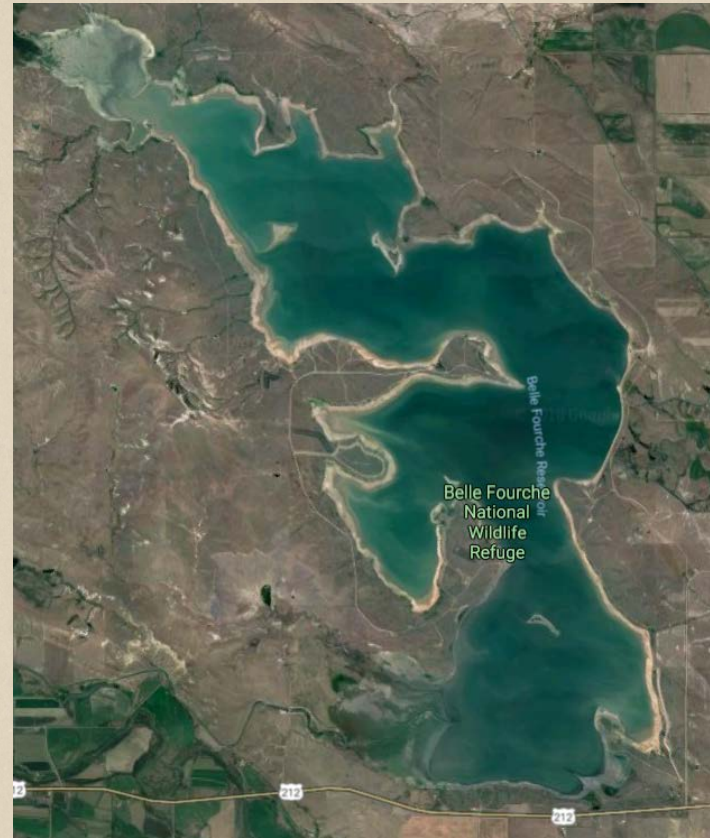


Belle Fourche Dredging Project

August 2016



- Belle Fourche Irrigation District awards dredging contract to Veit Engineering.
- US Bureau of Reclamation (BOR) notifies SDGFP.
- BOR and SDGFP identify and submit questions to Veit regarding Dreissenid risks, decontamination and planning.



September 2016



- 9/14 Veit responds to questions:
 - All equipment power-washed @ 150°F
 - Spud bars and pumps are new and not inspected
 - Equipment will be “dried” for 5 days (“should be adequate”)
 - Boats will be drained with plugs removed for transport
 - Barges are “water-tight”
 - First mention that equipment was last used in Lake Superior



September 2016



- 9/15 Veit submits detailed equipment list:
 - Nine barges (50'x20'x5')
 - Support boats
 - Pumps
 - Multiple spud bars & pins
- Anticipated arrival : 9/18
 - BOR & SDGFP determined all equipment needed full inspection prior to launch.





Inspection

Inspection

- Three staff each from BOR and SDGFP



Inspection



Inspection



Inspection



Inspection





Inspection Results

- Zebra Mussels found on:
 - All barges
 - Pins
 - Pump housing
- Additional violations
 - Standing water found in three barges
 - Support boats
 - Plugs in place
 - Water in bilges





Decontamination



Decontamination

- BOR prohibited launching of any equipment
- Veit transported all equipment to a Rapid City storage yard
- SDGFP provided decontamination protocol
 - Hot (140°F) power-wash for all equipment
 - Interior decontamination of three barges
 - SDGFP recommended hot water
 - Veit chose to utilize bleach
 - 235 PPM for six hours



Decontamination

- 9/24/-9/25
 - Veit completed decontamination procedures
 - SDGFP and BOR personnel were on site for verification
 - Veit purchased water from the City of Rapid City
 - Veit obtained a temporary discharge permit
 - Bleach was neutralized
 - Discharged into storm sewer



Decontamination



Decontamination





Decontamination (Re-inspection)

- 9/26/16
- Personnel (5 SDGFP, 2 BOR)
- Barges stacked
 - Inspected four at-a-time
 - Cleared barges moved to base
- Pins, bars, additional equipment
 - Inspected individually





Summary

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- Veit was extremely cooperative and environmentally conscious throughout the event.
 - No citations were issued for the infested equipment.
 - Citations were issued for the boat plug violations as they were notified of the requirements in advance.
 - All costs associated with decontamination were paid by Veit.
- Lacey Act violations were not pursued
 - Most equipment originated and was “decontaminated” in Minnesota.

Lessons Learned



- Inter-agency cooperation was essential
 - SDGFP was not the permitting agency nor did SDGFP have the authority to quarantine the equipment.
 - BOR had the authority to prohibit launch, but did not have inspection or decontamination expertise, nor the ability to enforce SD AIS regulations.
 - The size and number of the barges and equipment required significant staff resources.





Additional Opportunities

- All levels of Government must be involved
 - Tribal and Federal with regulatory authorities regarding interstate business and commerce
 - State agencies with authorities that may not appear “water-related”
 - DOT authorities regulate most construction equipment
 - School and Public Lands has authorities for aquatic plant harvest
 - Counties and Cities
 - Construction, maintenance, law enforcement, parks & recreation





SOUTH DAKOTA



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