



INFRASTRUCTURE & MARINE
CONSULTANTS

Representing Owners & Design Engineers; Constructability/Project and Construction Management - Hydro

Representative Projects

Common infrastructure, environmental and civil works project & construction management inclusions:

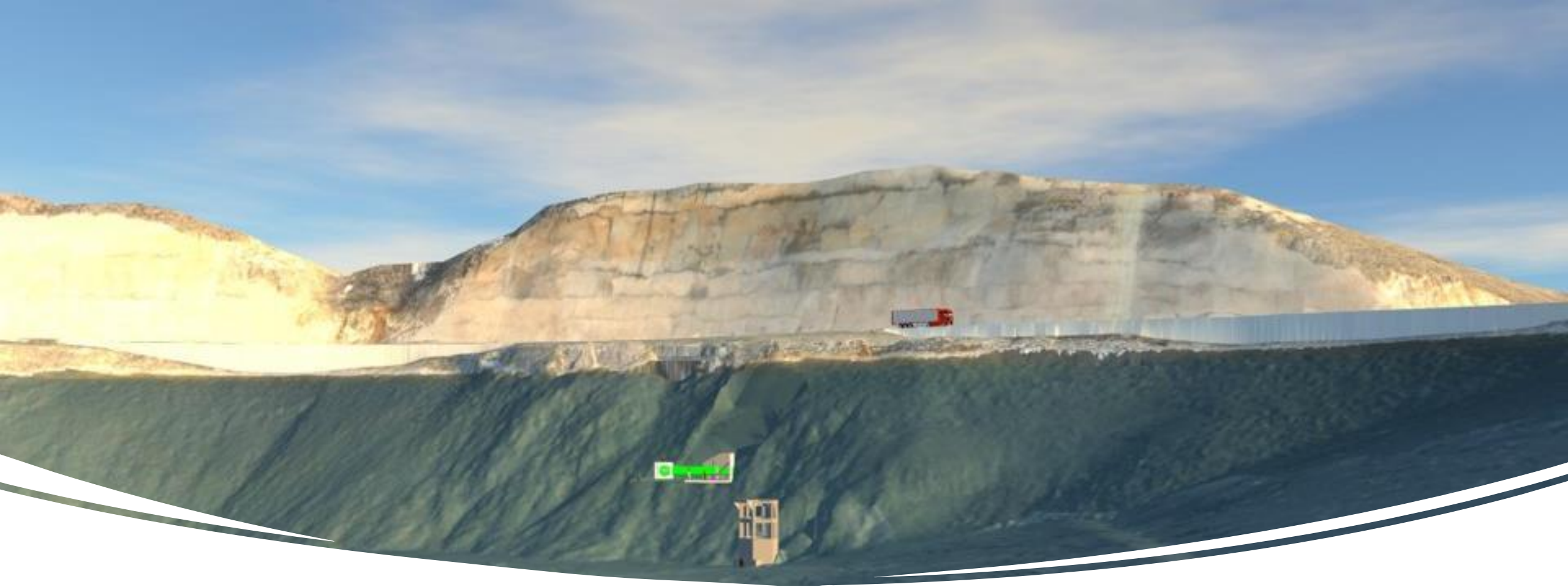
Project Management Services:

- Constructability Reviews
- Construction Bid Reviews
- Construction Bid Ratings
- Review/Approve Construction Schedules
- Review/Approve Construction Work Plans
- Formal Project Partnering Plans
- Pre-Construction Meetings

Construction Management Services:

- Permit Compliance
- Documentation and Document Control
- Safety Compliance
- Risk Management
- RFI & Submittal Reviews
- Change Order Review w Negotiations With Recommendations
- Progress Payment & Pay Ap Review
- As Built Drawing Verification
- Quality Assurance Inspection & Testing
- Final Inspection, Punch List and Project Close-out





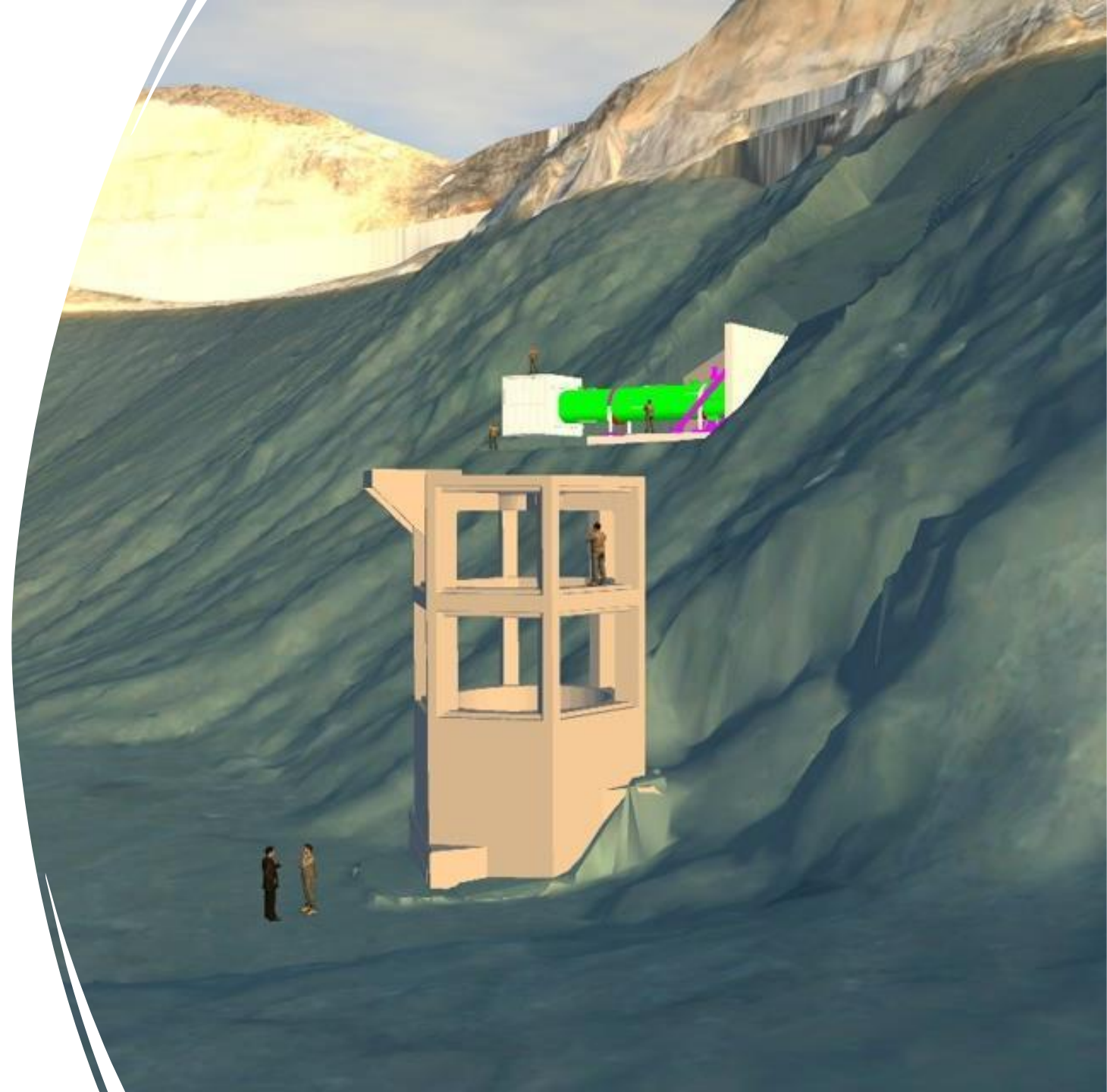
Deer Creek Dam – Provo Utah

- Structural Upgrades to the Intake Tower
- New Reservoir Bypass Pipeline
- Repair Existing Head Gates
- Design – March 2020 – March 2023
- Construction – May 23 – March 26

Deer Creek Dam – Provo Utah

Responsibilities During Design

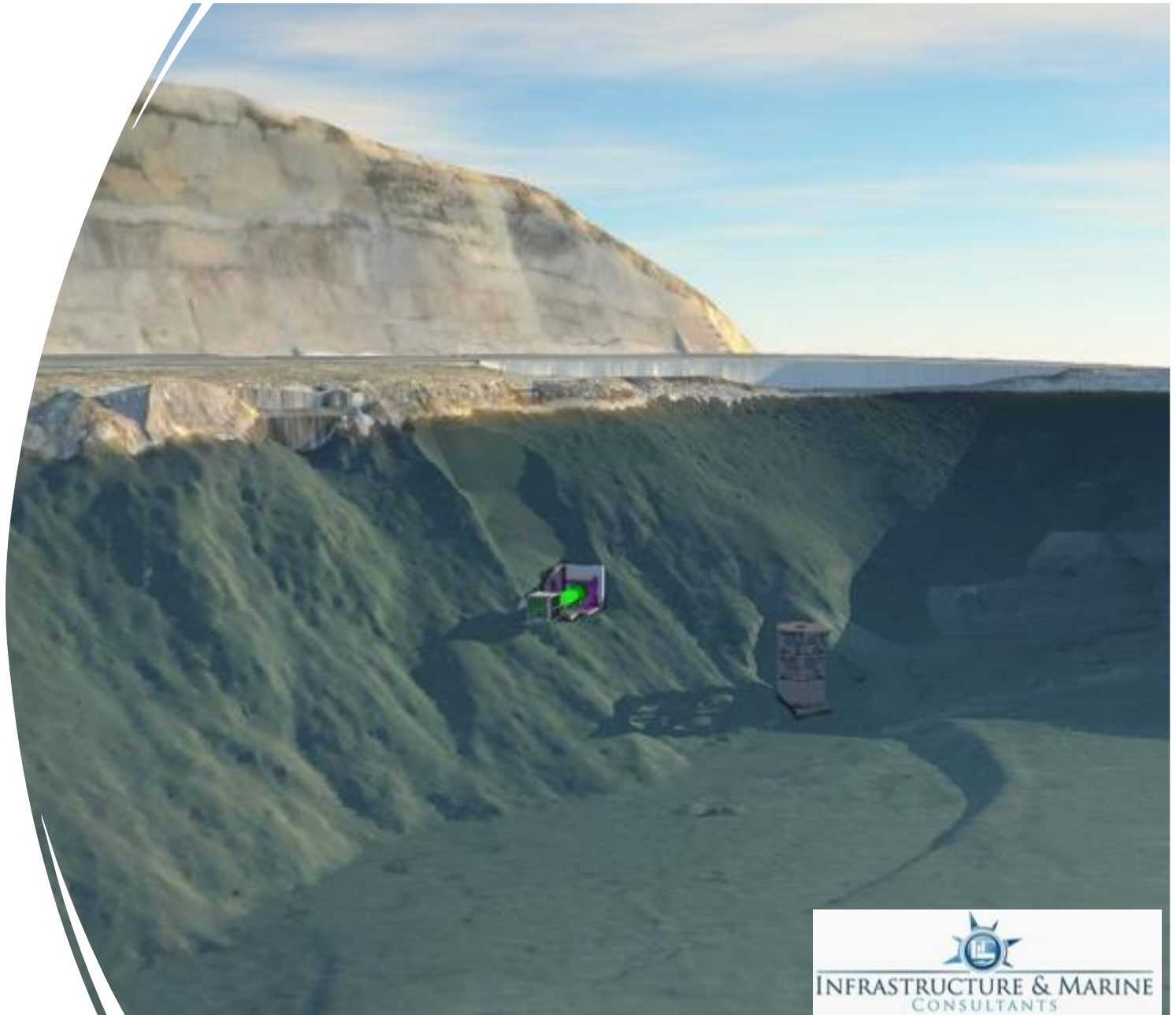
- Attend all Marine/Underwater Design Meetings
- Constructability for 9 different Intake Tower Renditions
- Research and Recommend Potential Prime and Sub-Contractors
- Review and Rate RFP Submittals during CMGC Proposal Process
- Attend and review Shortlisted Contractor Interviews.
- Review and Respond to all Submittals & Questions regarding Marine/Underwater Construction



Deer Creek Dam – Provo Utah

Responsibilities During Construction

- Review and Respond to all Submittals & Questions regarding Marine/Underwater Construction
- Attend all Meetings
- Provide Owners Representation and Inspection Services for all Phases of the Marine and Underwater Construction Work
- Provide Daily Written Reports and Photo Documentation.



Strontia Springs Dam, CO Emergency Reservoir Drainage System Project

Project Overview

Installation of Temporary Bulkhead to allow for access to the hydro turbine and repair the existing Guard and Control Gates. Water Depth – Approximately 250' Elevation EL 6029.00

Work Included

- Mechanical and diver assisted dredging for debris and sediment removal.
- Remove refurbish and reinstall existing trashrack
- Installation of New Temporary Bulkhead
- Repairs to Guard Gate & Control Gate Valve Stem Assemblies



Strontia Springs Dam, CO Mobilization

Construction Management Responsibilities

- Owners Representative and Inspection Services for all Phases of the Marine/Underwater Construction Work
- Change Order Review, negotiations and recommendation.
- Submittal & RFI Reviews
- As-built drawing verification.
- Attend all Meetings
- Safety Compliance
- Environmental/Permit Compliance
- Provide Daily Written Reports and Photo Documentation.
- Provide Final Report



Strontia Springs Dam, CO Emergency Reservoir Drainage System Project

Top Picture – Assembling ERDS Temporary Bulkhead



Bottom Picture – Temporary Bulkhead Installed ERDS Channel Drained





Cheesman Dam – Jefferson County CO



Project Overview

Installation of new Stainless-Steel Slide Gates at the Auxiliary, Mid-Level and Lower-Level location of the Dam Water Depth – Auxiliary Level – Approximately 50'; Mid-Level Approximately 130' Lower-Level Approximately 230' Elevation EL 6824.24

Work Included

- Controlled Blasting. Installation of new spool pieces, slide gates, hydraulic cylinders and trash rack systems

Cheesman Dam, CO Upstream Control Project

Top Picture – Mid-Level Spool Piece Ready for installation

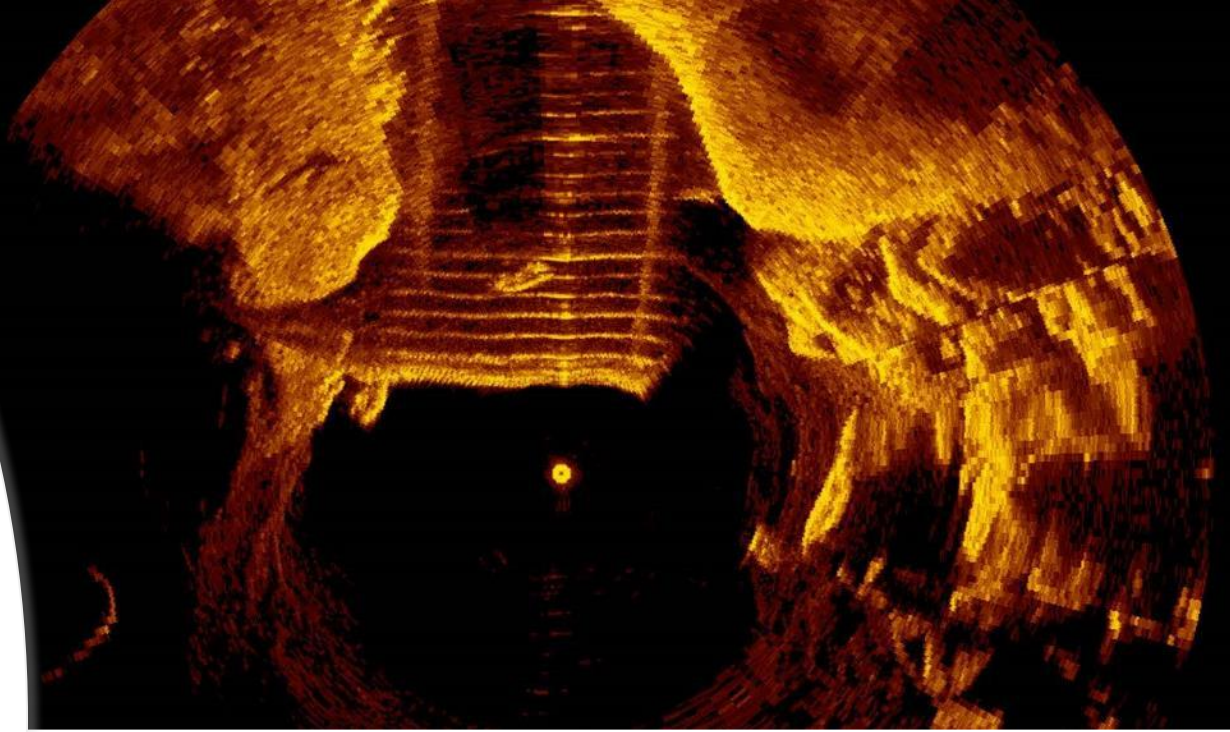
Bottom Picture – Saturation System Being Assembled for Deep Water Construction. This phase of the project was 24/7 for 5 months.



Cheesman Dam – Jefferson County CO

Project Management Responsibilities

- Provide Underwater Sonar Images of existing areas of underwater construction for design verification.
- Constructability review.
- Contractors bid review and ratings.
- Submittal Reviews



Cheesman Dam – Jefferson County CO

Construction Management Responsibilities

- Provide Underwater Sonar Images of existing areas of underwater construction for design verification.
- Constructability review.
- Contractors bid review and ratings.
- Submittal Reviews



Sampling of Recent & Current Hydro Projects

- Big Creek Dam # 1; Black & Veatch Design Team – Constructability Reviews & Technical Memo
- Big Creek Dam # 4; Black & Veatch Design Team – Constructability Reviews & Technical Memo
- Deer Creek Dam; Provo River Water Users Association – Project & Construction Management
- Lower Baker Dam; HDR Design Team – Project Management
- Strontia Springs Dam; Denver Water – Project & Construction Management
- Cheesman Dam; Denver Water – Project & Construction Management
- Williams Fork Dam; Denver Water – Project & Construction Management
- Newell Creek Dam; AECOM Design Team – Constructability Reviews
- Cushman Dam; Black & Veatch Design Team – Constructability Reviews & Technical Memo

THANK YOU



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