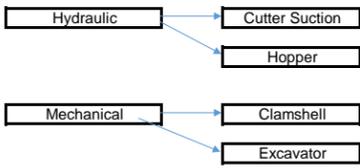
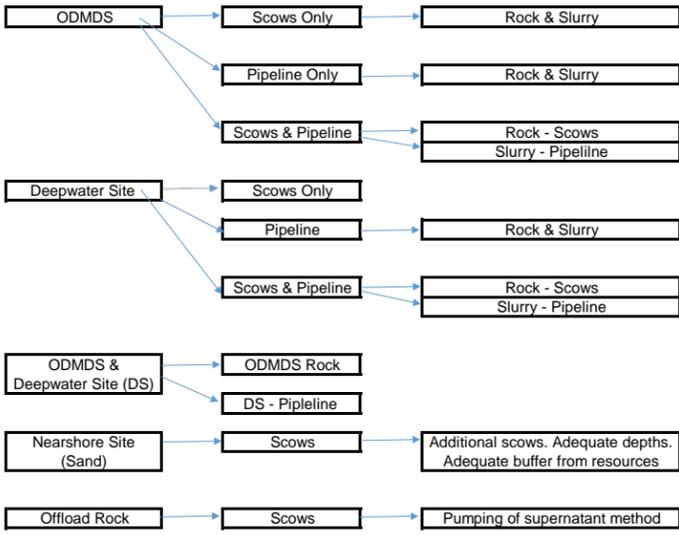


Port Everglades - Construction Methodology

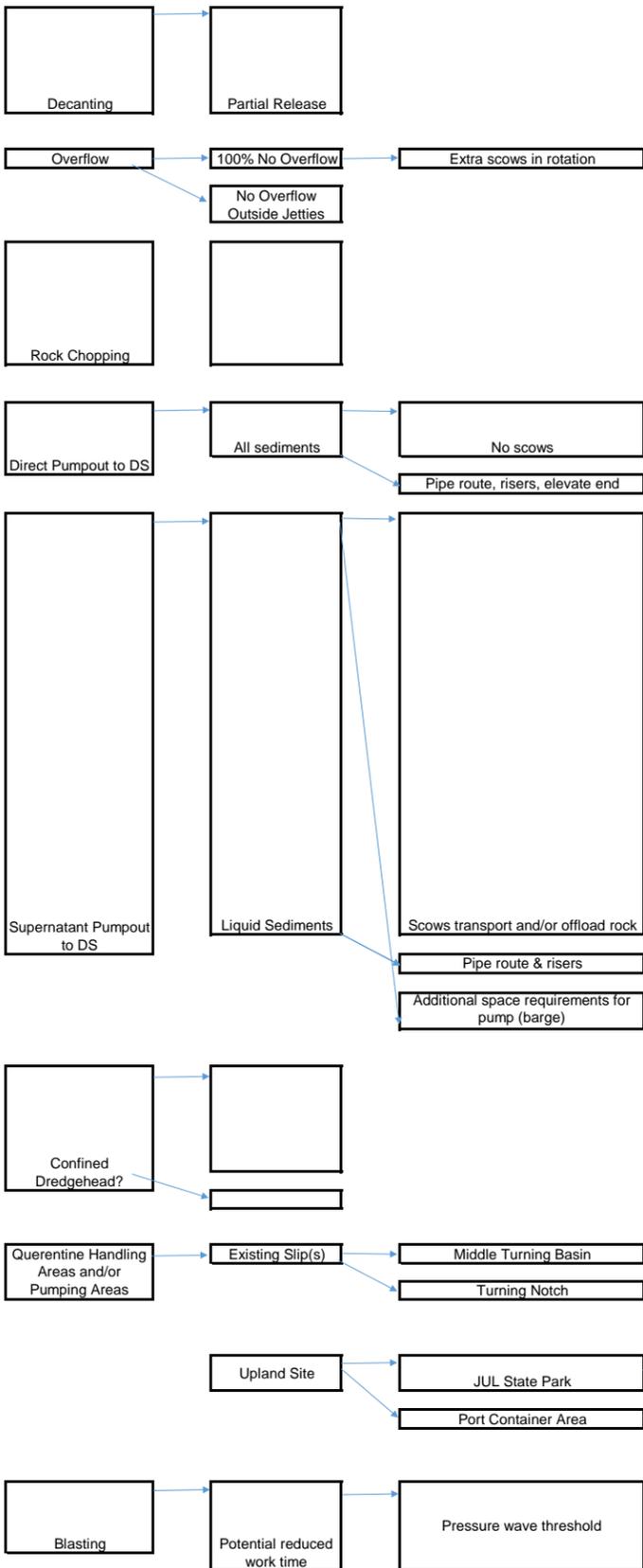
Equipment



Disposal



Practices



Beneficial Use?

Limit sedimentation

Decanting: overflow discharge from top of the scow. Phased out in Miami. Decant process fill up scow with slurry and let it settle out, then open discharge tubes to discharge water - supernatant. Adds stability to scows. Timing: gradual process (Matt);

Technique used in Miami using cutterhead without suction to pretreat the rock. Re contractor added productivity to the process. Improved swing velocity. Did it generate sedimentation? Matt - correlate with imaging highest sed. Was during overflow process. Hopper dredge

Barges versus direct pump - don't know how cost balances out. Going to industry and cost engineers.

More focus on liquid sediments. Example upland site where they pumped water to offshore site. Pump supernatant offshore to deeper water. **Where is deepwater site? 2.5 miles off shore.** Chris - permitting requirements? Nearshore or under MPRSA plus intent/purpose. What about putting supernatant into another barge? Corps - looking at tremendous amount of water. (Look at Piney Point) Concern over adding a deep water site when there is a permitted ODMDS. Built into scenarios to be modeled with sediment transport model. For costs - factoring in mitigation costs? Idea is to alleviate impacts at the discharge site. Brendan - would need verification of lack of resources at deep water site. Preliminary indication that only scattered hardbottom but little else. Discussion on no overflow criteria in 103 permit? specific to when transit begins and ends - include in modeling scenarios. potential for overflow to come back in on tides. Flow rates coming in an out of PE half of what happens at Miami.

Looking to industry to get latest technology. Discussions with ERDC. Some project in past used shroud or hoods near the cutter to take velocity out of what comes up. Placement in future is variable. Need dredging 101?

Challenge is large production rates from large

Reduce or eliminate pressure wave associated with blasting. Deflagration explosives (no sound wave) that don't produce a shock wave.

Other ideas?

Pace - new ways to monitor dredging and disposal to provide dredge captain feedback? Still being pursued. Another management means to control location and real time location. Add to the list. Jocelyn: Dredge windows during peak time of spawning - August and September? Need to verify. Routinely practiced in other parts of the world. **Terms and Conditions on Biological Opinion from NMFS?** Jason: Can add in to other windows -