

ARDAMAN & ASSOCIATES, INC. PROGRESS MEETING REPORT FOR PINEY POINT GYPSUM STACK SYSTEM CLOSURE		File No.: 04-100A	Page 1 of 4
		Meeting Date: <u>4/21/05</u>	
		Report No: <u>7</u>	Report Date: <u>4/27/05</u>
Project Name:	CLOSURE CONSTRUCTION - PHASE III NGS-S COMPARTMENT LINED RESERVOIR	Project Address: 13300 U.S. Highway 41 North Palmetto, Florida 34221 Manatee County	
ATTENDEES: Ardaman: Nadim Fuleihan, John Cameron, Rob Werner, Tom Leto Receiver: Louis Timchak FDEP: John Coates, Sam Zamani CDM: Steve Solters, Dean Carter, Michael Cruz Moretrench: Steve Voytko, Mike Panny Comanco: Joe Benz, Dragan Milosavljevic, Brad DeNeve, Joe Benz			

COPY TO: Louis J. Timchak - Receiver
 FDEP: Phil Coram, Sam Zamani, John Coates
 Ardaman: Nadim Fuleihan, Rob Werner, Tom Leto, John Cameron, Tony Deatherage
 CDM: Steve Solters, Dean Carter, Michael Edgar, Michael Cruz
 Moretrench: Al Shuman, Steve Voytko, Mike Panny
 Comanco: Tom Topp, Joe Benz, Dragan Milosavljevic, Brad DeNeve

Next Construction Meeting is Scheduled for Thursday, April 28, 2005 at 8:00 am

1.0 REVIEW MINUTES OF PREVIOUS MEETING

No corrections were noted.

2.0 SAFETY

Moretrench cautioned that dump trucks have begun borrowing gypsum material from the OGS, and caution should be exercised when traveling on the south sides of the OGS and NGS-S. Moretrench also noted that the low visibility of a traffic "stop" sign located at the in-plant intersection of the gypsum stack access road and laboratory road. CDM intends to relocate the sign.

3.0 SUMMARY OF WORK PERFORMED

Moretrench:

- Continued hauling gypsum fill to dikes in Areas 3 through 6, and to the pond bottom in Areas 3 and 4. Gypsum fill hauled this week was reported (by truck count estimate) as 30,529 cy (compacted-in-place), 199,137 cy to-date, as of 4/19/05 (see 8.0 Technical Items - Miscellaneous for comments on the reported fill quantity).
- Continued compacting and rough grading Areas 2 through 5, including special efforts on the relatively dry west slope in Area 2.
- Continued finish grading the pond bottom Area 2.
- Started fusing 18-inch HDPE outlet pipe on 4/21/05.
- Continued maintenance of dewatering ditches and dewatering pump.
- Water usage this report was approximately 660,000 gallons.
- Equipment: 3 D-8 dozers w/rippers, 4 D-6 dozers, 5 compactors, 2 backhoes, 1 long-stick backhoe, 3 water wagons, 6 dump trucks, 1 motor grader, 1 hydraulic 6" pump - 29 personnel. It was noted that 2 D-8 dozers w/rippers were added.

Comanco:

- Continued receiving/unloading liner materials; 172 rolls of 80-mil smooth liner, 166 rolls of 80-mil 2-sided textured liner, and 38 rolls of 80-mil 1-sided textured liner were received as of 4/20/05.
- Continued liner installation in Area 1, and started deployment in Area 2 on 4/20/05 - 97,330 sq ft (2.24 acres) was installed this reporting period, 477,291 sq ft (11.0 acres) total as of 4/20/05.

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- Equipment: 1 QC trailer, 6 generators, 3 wedges, 3 extruders, 1 backhoe, 1 dozer, 1 loader, 1 water truck, 1 crawler-carrier, 1 gator - 23 personnel

4.0 PROJECTED WORK FOR NEXT WEEK

Moretrench:

- Finish compacting and finish grading Area 2, and start Area 3.
- Continue hauling gypsum fill and rough grading Areas 3 through 6.
- Continue welding 18-inch HDPE outlet pipe.
- Maintain dewatering ditches and pump(s).
- The remainder (about 2,000 feet) of 18-inch HDPE outlet pipe is scheduled for delivery end of April.

Comanco:

- Continue liner installation in the east half of Area 2, and complete liner in Area 1 west of station 21+00, pending subgrade acceptance - it was anticipated that the remaining area in Area 1 and the east half of Area 2 would be lined out 4/28/05, pending subgrade acceptance.

5.0 SURVEY NOTES

- The balance of Area 1 was as-built surveyed by Pickett on 4/7/05, except west of station 21+00.
- Area 1 west of station 21+00, and the east dike and east ½ of Area 2, were as-built surveyed by Pickett on 4/19/05. The survey was received by Ardaman on 4/20/05, and corrective work was noted. The corrective work was scheduled to be re-surveyed on 4/21/05.

6.0 PROJECT SCHEDULE

- No workdays were lost to weather.
- Moretrench continued good progress on hauled fill. Finish grading (and subgrade compaction) in Areas 1 and 2 continued on schedule, recognizing that partial acceptances of areas have been necessitated to date in order to provide subgrade acceptable for liner deployment in a timely manner.
- Liner deployment by Comanco continued essentially on or ahead of schedule.
- The schedule was updated by Ardaman on 4/20/05 (draft 8) to reflect fill quantities per the 3/2/05 topographic survey, and actual progress by Moretrench based on Pickett's take-up surveys on 3/24/05 and 4/5/05, and actual progress by Comanco through 4/19/05. Primary critical path activities are finish grading (including compaction) and liner installation. The updated schedule's projected operational and completion dates are 7/26/05 and 8/24/05, respectively, about 1 week sooner than last update; the contract completion date is 8/30/05. CDM and its subcontractors were requested to comment on the updated schedule.
- It was noted that the updated schedule reflects a proposed change in the boundary between Areas 5 and 6. It is proposed to change this dividing line, which is presently east-west, to north-south, in order to allow the temporary cofferdam at the inlet structure to stay in place for a longer period of time and not impact the critical path.

7.0 SHOP DRAWINGS and SUBMITTALS

All shop drawings and submittals should be submitted to Rob Werner (Ardaman) for approval, with transmittals only copied to John Cameron (Ardaman) and Steve Solters (CDM).

- Moretrench submitted rebar shop drawings for the concrete inlet structure on 4/13/05 - Moretrench was advised at the meeting that the drawing should include additional details for review - Ardaman provided a copy of a previously approved shop drawing use for construction of the OGS-S inlet structure in 2004 (which is very similar in dimension to the NGS-S structure) to Moretrench for their information.
- Moretrench's submittal 005 dated 4/11/04 of concrete mix design, proposed for the inlet structure, was approved as submitted by email on 4/15/05.

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- Moretrench's submittal 006 dated 4/14/04 of Polyplank polyethylene foam material, proposed for use in construction of the inlet structure, was approved as submitted.
- Moretrench's submittal 007 dated 4/14/05 and sample of sand proposed for outlet pipe bedding were conditionally approved by email on 4/19/05.
- Comanco advised that liner factory certifications for liner rolls have been mailed to Ardaman.

8.0 TECHNICAL ITEMS/CLARIFICATIONS AND QUALITY ASSURANCE

NOTE: All drawings and specifications for the NGS-S Reservoir are Revision 0 - Issued for Construction, dated 3/9/05. CD's of site plans and sections for OGS slopes, caps and the relief ditch, were provided on 4/7/05 to CDM and Moretrench.

Quality Control Activities

- Ardaman has 6 technicians on site.
- In-place gypsum density tests: 194 tests passing, none failing, 5 pending.
- Liner roll conformance testing: tables of testing status (revision 5, dated 4/20/05) were distributed at the meeting; 80 rolls of 2-sided textured, 21 rolls of 1-sided textured, and 60 rolls of smooth liner have been conditionally approved for deployment.
- Liner seam destructive testing (DT's): 49 marked, 40 passing, none pending. A summary of testing status (revision 1, dated 4/20/05) was distributed at the meeting.
- Liner anchor trench gypsum compaction testing: 16 passing

Miscellaneous

- Rainfall (inches) as reported by the Program Manager for this reporting period: 0.35 (April total 0.81).
- Ardaman will re-estimate the cut and fill quantities for the proposed revised boundaries for Areas 5 and 6.
- Reported in-place gypsum fill volumes based on 3/24/05 and 4/5/05 take-up surveys performed for Moretrench by Pickett (49,941 and 47,769 cy, respectively, for a total of 97,710 cy) and fill volumes estimated by Moretrench based on their truck load counts (125,214 cy through 4/4/05) need to be reconciled. Even though fill volumes computed from the take-up surveys do not account for fill placed to compensate for base settlement, etc., it appears that the truck load count estimate may be overstating the actual in-place fill volume by about 20%. Moretrench indicated that the prior Pickett take-up surveys did not necessarily encompass all of the areas where work was done. Nonetheless, Moretrench's truck load count estimate of 199,137 cy of gypsum fill complete as of 4/19/05 also appears to be significantly overstated considering that the entire project total is 206,500 cy, and there is still significant work yet to be performed to complete the dikes in Areas 5 and 6.
- It was noted that Moretrench has started borrowing gypsum materials from the south and west slopes of the OGS. It was recommended by Ardaman that survey stakes be established and maintained to assure that the borrow areas are not over-excavated.
- As stated in the prior minutes, the Department and Engineer expect to be kept abreast of the Contractor's plans, and the Contractor shall consult and coordinate with the Department and Engineer prior to undertaking work outside the limits of construction. Furthermore, CDM and its subcontractors were informed that any unanticipated construction issues should be raised in a timely manner to document and/or verify the problem before performing any additional work.
- Moretrench indicated that they were considering mobilizing a self-propelled soil mixer/reclaimer for an attempt to determine whether this type of equipment could be used to rip and mix gypsum prior to compaction (e.g., on the west slope). Ardaman suggested that mixing, wetting and compacting the material in small sections could also be an effective means of handling the relative dry material. [As of the afternoon of Friday, 4/22/04, preliminary density test results indicated that working smaller sections of the slope was successful, and the mixer-reclaimer equipment, which has been delivered to the site that day, was returned to its vendor unused.]

Acceptance of Subgrade for Liner Deployment

- On 4/20/05, Area 2 east dike and 75' of adjacent pond bottom, from station 39+00 to 43+00. This was the 1st partial acceptance of Area 2.

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9.0 COMMENTS by PROGRAM MANAGER

- Ardaman distributed a comparison of the Engineer's and Contractors' material quantity estimates (Schedule D) on 3/30/05. A review of apparent discrepancies is in progress by CDM, and will be distributed to Ardaman and FDEP when complete.

10.0 COMMENTS by FDEP and/or RECEIVER

- CDM and Moretrench were requested to submit a comparison of original (BAFO) and present (3/2/05 survey) earthwork quantities, with a breakdown into appropriate sub-categories such as hauling, compaction and finish grading, for consideration with respect to possible adjustments to the contract.
- The Receiver requested CDM to submit a water management plan before the onset of the rainy season.
- A change order is in progress by Comanco to reflect increased resin costs for liner materials.
- CDM was requested to have their next Operations meeting in 2 weeks, on Thursday May 5, 2005, preceded by a site tour at 9:00 am.