

ARDAMAN & ASSOCIATES, INC. PROGRESS MEETING REPORT FOR PINEY POINT GYPSUM STACK SYSTEM CLOSURE		File No.: 05-110A	Page 1 of 4
		Meeting Date: <u>11/10/05</u>	
		Report No: <u>36</u>	Report Date: <u>11/16/05</u>
Project Name:	CLOSURE CONSTRUCTION - NGS-S RESERVOIR, OGS SLOPES, TOP CAPS AND NGS-N RELIEF DITCH	Project Address: 13300 U.S. Highway 41 North Palmetto, Florida 34221 Manatee County	
ATTENDEES: Ardaman: Nadim Fuleihan, Tom Leto, Rob Werner, John Cameron, Tony Deatherage Receiver: Louis Timchak FDEP: John Coates, Sam Zamani CDM: Mich Edgar, Dean Carter, Steve Solters, Mike Cruz, Jean Wilson, Jason Gorrie Moretrench: Steve Voytko, Harley Frady Comanco: Tom Topp, Brad DeNeve Compass: Tom McSweeny, Chuck Icenogle, Vernon Giles			

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, Dick Slovarp
Moretrench: Al Shuman, Steve Voytko, Mike Panny, Nick Haddon
Comanco: Tom Topp, Brad DeNeve
Compass: Chuck Icenogle, Vernon Giles, Tom McSweeny

Next Meeting is Scheduled for Thursday, November 17, 2005
Construction/Engineering Meeting at 9:00 am

1.0 REVIEW MINUTES OF PREVIOUS MEETING

No corrections were noted.

2.0 SAFETY

- A leaking tank of sodium thiosulfate (a mild reductant, 10% solution?) has been roped off and bermed by CDM. Construction traffic should exercise caution in this area.
- No safety incidents were reported.

3.0 SUMMARY OF WORK PERFORMED

Moretrench:

- Hauled gypsum fill to the NGS-S Cap; 1,056 cy was hauled this report, 444,094 cy total as of 11/9/05 (compacted-in-place based on truck load count estimate).
- Completed finish grading for liner subgrade at the NGS-S Cap.
- Completed backfill around the outlet pipe at the west end of the Relief Ditch, including installation of seep shields.
- Completed cutting 2 foot gypsum from OGS south and west crest roads (in preparation for closure Option 1).
- Started installation of an irrigation system on the OGS south slope (for watering to assist compaction).
- Process Water usage this report - approximately 169,500 gallons.
- Equipment: 3 D-6 dozers, 3 compactors, 2 backhoes, 2 water wagons, 2 dump trucks, 1 motor grader - 19 personnel. Demobilized 2 D-8 dozers and 1 compactor since last report.

Comanco:

- Completed liner deployment on the OGS slope pond 11/8/05, and started detail work; a total of approximately 499,999 sq ft of liner (11.5 acres) was installed in the OGS Caps and slope pond.
- Received 85 rolls of GSE Fabrinet geonet/geotextile composite; provided conformance samples to Ardaman.
- Temporarily removed gas vents in the OGS Cap Areas as requested by CDM/Compass for haul roads.

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- Equipment: 1 QC trailer, 6 generators, 3 wedges, 4 extruders, 2 jumping jack compactors, 1 backhoe, 1 loader, 1 gator -15 personnel. The jumping jack compactors were added since last report.

Compass:

- Maintained haul roads and continued dust control.
- Continued segregating and screening soil stockpiles.
- Continued hauling soil fill from Gulfstream I borrow area to the OGS Caps; 10,978 cy was hauled this report, 23,914 cy total as of 11/9/05 (compacted-in-place based on truck load count estimate).
- Completed sod installation on the remainder of the upper slope between the OGS-N Cap and slope pond.
- Fresh Water usage this report - approximately 50,000 gallons.
- Equipment: 7 dump trucks, 2 water wagons, 1 loader, 2 backhoes, 3 dozers, 2 power screens, 2 compactors, 2 motor graders - 17 operators. Changed out 1 water truck since last report.

4.0 PROJECTED WORK FOR NEXT WEEK

Moretrench:

- Continue work on the NGS-N Relief Ditch.
- Resume grading and compaction on the OGS slopes; continue installation of irrigation system for watering to assist compaction.

Comanco:

- Continue detail work at the OGS slope pond; backfill and compact anchor trenches.
- Begin placement of geocomposite on the OGS Cap Area crests.
- Start liner deployment at the NGS-S Cap.

Compass:

- Continue haul road maintenance and dust control.
- Continue segregating and screening soil stockpiles at Gulfstream I borrow area.
- Continue hauling soil fill to the OGS Caps.
- Perform additional sampling at the Gulfstream II proposed borrow area - see 9.0 Comments by Program Manager for more.

5.0 SURVEY NOTES

- Moretrench sent an electronic copy of Pickett's 10/20/05 take-up quantity survey to Ardaman.
- Moretrench provided electronic and hard copies of Pickett's 11/4/05 as-built survey of the NGS-S Cap subgrade for review on 11/7/05; the as-built was approved by Ardaman on 11/7/05, subject to corrective work as noted.

6.0 PROJECT SCHEDULE

- Workdays lost to weather this reporting period: Moretrench 0.0, Comanco 0.0, Compass 0.0.
- The project schedule was updated by CDM on 11/10/05 and was distributed at the meeting. The schedule was updated to reflect construction progress to date.
- See 10.0 Comments by FDEP for more.
- Weekend work schedule: Compass plans to work on Saturday; no work is planned by Moretrench or Comanco.

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).

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- Liner deployment shop drawings for the NGS-S Cap and NGS-N Relief Ditch were revised and re-submitted via email on 11/8/05 review. The revised drawings were approved by Ardaman at the meeting.
- Factory certifications for geocomposite this last week were submitted by Comanco to Ardaman; the geocomposite was approved for use, pending conformance testing of field samples, which were provided on the day of the meeting.
- CDM/Moretrench proposed panel drain connection modifications in an email on 11/8/05. The modifications were approved by Ardaman, subject to conditions outlined by email on 11/8/05.

8.0 TECHNICAL ITEMS/CLARIFICATIONS AND QUALITY ASSURANCE

Updated drawing sets, dated 9/28/05, were distributed at the 9/29/05 meeting for the NGS-S Cap and NGS-N Relief Ditch and the Phase I Slope Closure. These drawings reflect all changes to date. Earlier drawings should be discarded. Preliminary drawings were previously distributed at the 9/15/05 meeting for the NGS-S Soil Slope Cover Construction, C-1 through C-5 (hard copies and CD's containing ACAD files) for Contractor's use in estimating take-off quantities.

Regarding specifications for the OGS Slopes, Top Cap Areas and NGS-N Relief Ditch, pertinent NGS-S Reservoir, Phase II OGS Compartment Closure and ITN specification documents shall be used. Pertinent specification sections from the Phase II and ITN sources, along with specifications for HDPE panel drains and concrete erosion control mats, were issued in a preliminary specification document (Sections 24, 25, 26, 27, 28, 29 and 30, all revision 0, dated 7/6/05) on 7/7/05

- A location plan and detail for the filtration drain detail in the OGS-S Compartment (that will be installed in conjunction with the planned soil cover construction on the slopes the lined OGS-S Compartment) were provided by Ardaman at the 10/12/05 meeting.
- A typical cross section indicating requirements for relocation of the 18x16 reducer and upstream gate valve on the OGS-S Compartment outlet pipe were provided by Ardaman at the 10/12/05 meeting.
- Plan figures and preliminary cross-sections were provided by Ardaman at the 10/12/05 meeting to illustrate a potential option for closure of certain dike crest roads (i.e., crest roads that have widths significantly greater than the typical 24-foot width) that may be implemented to preclude the need for excavating gypsum 2 feet to lower the crest and form the upstream berm prior to liner and soil cover installation.
- CDM previously submitted a request to modify the liner anchor trench detail on dike slopes via email on 10/6/05; Ardaman approved the modified detail by email on 10/11/05.

Quality Control Activities

- Ardaman had 6 technicians on site this reporting period.
- In-place gypsum density tests - 646 tests passing, 9 failing (OGS south slope), none pending.
- In-place spoil fill density tests - 2 passing, none failing, 12 pending.
- OGS Cap liner seam destructive testing (DT's): 59 marked, 51 passing, none failing, 8 pending.
- OGS Cap liner anchor trench density tests - no change - 8 passing, none failing, none pending.
- NGS-S Cap 40-mil liner roll conformance testing - summary of testing status report was last updated 10/26/05 (revision 2) - all rolls were tentatively approved for deployment at the meeting.
- Gulfstream I site soil cover screened stockpile samples - tabulated summary of testing results was last updated 10/26/05 (revision 5).
- Gulfstream II site - tabulated summary of geotechnical testing was distributed at the 10/26/05 meeting.
- Post-amendment gypsum pH testing at the east end of the OGS slope pond - 2 tests passing, none failing, none pending.

Miscellaneous

- Rainfall: CDM reported 0.00 inches from 11/2/05 through 11/8/05.
- Compass submitted via email on 11/4/05 a proposed haul road location around the perimeter of the OGS Caps for hauling soil fill to the OGS-S Pond, and requested temporary removal of pipe vents which would be an obstruction to traffic. Ardaman indicated by email on 11/7/05 that CDM's proposal was acceptable, subject to certain conditions.

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Acceptances

- On 11/8/05, subgrade for liner installation, the NGS-S Cap.

9.0 COMMENTS by PROGRAM MANAGER

- A change order is in progress for changes in gypsum cut/fill quantities. As discussed at the 10/27/05 the meeting, the final payment quantity for gypsum fill on the south slope of the OGS may need to be determined via final as-built survey in the event that the current "fattened" slope grades are not achieved.
- Reconciliation of Compass pay quantities for soil fill and grassing is in progress. CDM reported that Proposed pay quantities were sent for review to Ardaman and FDEP for all pay items except the NGS-N Relief Ditch.
- Regarding the Gulfstream II borrow pit, Compass submitted their latest soil analytical results for SPLP and total metals at the meeting. CDM submitted a proposal at the meeting to re-sample by horizon to more fully define soil chemistry. The proposal was discussed and approved at the meeting, subject to comments by FDEP and Ardaman. CDM/Compass were reminded that a response will be eventually required to earlier requests for additional information by Ardaman and FDEP regarding the site development plan, permits and permit conditions.
- CDM was encouraged by FDEP at the 10/27/05 meeting to contact Keller Grassing to inspect and provide a diagnosis of the current condition of the existing grass on the west slope of the NGS-N Compartment. CDM indicated that Keller visited the site on 11/9/05 and gave a verbal report of his findings. Keller was scheduled for a follow-up inspection in 2 weeks.

10.0 COMMENTS by FDEP

Regarding the construction schedule, it was requested that as-built survey activities in particular should be reviewed and updated with each report.

11.0 COMMENTS by RECEIVER

No comments.