

ARDAMAN & ASSOCIATES, INC. PROGRESS MEETING REPORT FOR PINEY POINT GYPSUM STACK SYSTEM CLOSURE		File No.: 05-110A Meeting Date: <u>12/8/05</u> Report No: <u>39</u> Report Date: <u>12/13/05</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: Rob Werner (telecom), John Cameron, Tony Deatherage Receiver: _____ FDEP: Phil Coram (telecom), John Coates (telecom) CDM: Dean Carter, Steve Solters, Mike Cruz, Jean Wilson Moretrench: Harley Frady, Ralph Remmert Comanco: _____ Compass: Chuck Icenogle		

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 Friday, December 16, 2005
 Site Tour at 8:00 am followed by
 Construction/Engineering & CDM Operations Meetings***

1.0 REVIEW MINUTES OF PREVIOUS MEETING

No corrections were noted.

2.0 SAFETY

No safety incidents were reported.

3.0 SUMMARY OF WORK PERFORMED

Moretrench:

- Moved excess gypsum after rough grading the NGS-N Relief Ditch to widen the OGS ramp ~ station 18+50 to 19+50, per sketch provided by Ardaman on 12/2/05; Moretrench estimated that about 1,600 cy was moved.
- Continued finish grading and compacting the NGS-N Relief Ditch.
- Installed concrete retaining walls at the NGS-N Relief Ditch inlet structure on 12/2/05.
- Process Water usage this report - approximately 50,000 gallons.
- Equipment: 3 D-6 dozers, 4 compactors, 1 backhoe, 2 water wagons, 2 dump trucks, 1 motor grader - 11 personnel.

Comanco:

- Completed liner deployment at the NGS-S Cap on 12/7/05 - 99,914 sq ft (2.3 acres) was deployed since last report; total liner deployed at the NGS-S Cap was 326,221 sq ft (7.5 acres) as of 12/6/05.
- Completed detail work on the west ½ of the NGS-S Cap; started detail work on the east ½; continued backfill and compaction of anchor trenches.
- Received 20 rolls of 60-mil liner for the NGS-N Relief Ditch.
- Equipment: 1 QC trailer, 6 generators, 3 wedges, 4 extruders, 2 jumping jack compactors, 1 backhoe, 1 loader, 1 gator - 18 personnel. Demobilized 1 dozer since last report.

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Compass:

- Maintained haul roads and continued dust control.
- Continued segregating and screening soil stockpiles.
- Started hauling soil fill from Gulfstream I borrow area on 12/2/05 to the NGS-N Cap west ½; an estimate of cy placed was not available for this report.
- Fresh Water usage this report - approximately 30,000 gallons.
- Equipment: 8 dump trucks, 2 water wagons, 1 loader, 2 backhoes, 4 dozers, 2 power screens, 2 compactors, 2 motor graders - 22 operators.

4.0 PROJECTED WORK FOR NEXT WEEK

Moretrench:

- Continue finish grading and compacting the NGS-N Relief Ditch.
- Continue grading and compacting the OGS slopes.

Comanco:

- Continue detail work on the east ½ of the NGS-S Cap; continue backfill and compaction of anchor trenches.
- Start liner deployment in the NGS-N Relief Ditch, pending subgrade acceptance.

Compass:

- Continue haul road maintenance and dust control.
- Continue segregating and screening soil stockpiles at Gulfstream I borrow area; a 6" x 6" grizzly will also be utilized to screen roots as necessary.
- Continue hauling soil fill to the NGS-N Cap.

5.0 SURVEY NOTES

- Regarding Pickett's 11/18/05 take-up survey for Moretrench, Ardaman indicated via email on 12/6/05 of several apparent errors in Pickett's take-up for the NGS-N Relief Ditch which would over-estimate the take-up fill volume.
- Ardaman also reviewed Pickett's 11/18/05 take-up survey for as-built of the NGS-N Relief Ditch gypsum grades; an evaluation was emailed on 12/6/05 to CDM - see 8.0 Technical Items - Acceptances re partial acceptance of gypsum subgrade for amendment and grassing. The survey was not suitable for evaluation of liner subgrade.
- Ardaman also reviewed Pickett's 11/18/05 take-up survey for as-built of the OGS-S south slope scheduled for amendment and grassing. Because the survey within this portion of the site was actually surveyed in late-October (prior to final grading and compaction) it is not suitable for evaluating grade acceptance for the upper slope. A subsequent as-built survey was performed by Pickett on 12/7/05 - results were not yet available at the meeting.
- Pickett is scheduled to perform an as-built survey for Compass of soil cover grades on the OGS Cap areas.
- CDM indicated that a ground survey will be performed to document existing grades in the SCP south compartment.

6.0 PROJECT SCHEDULE

- Workdays lost to weather this reporting period: Moretrench 0, Comanco 1, Compass 0.
- CDM and Ardaman reviewed the project schedule with CDM's corporate scheduler on 12/6/05. The schedule was updated by CDM on 12/7/05 to reflect work progress to date, and to re-forecast schedule dates for uncompleted activities. The schedule was distributed and reviewed at the meeting; electronic copies were provided prior to the meeting. CDM will address comments made by FDEP and Ardaman, and also requested comments from Contractors by 12/9/05; CDM will incorporate appropriate changes and will re-distribute the schedule prior to next meeting.
- Weekend work schedule: No work is planned by Contractors this weekend.

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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).

- No shop drawings or submittals are waiting for action at this time.
- CDM indicated that a submittal has been received from Compass for rye and bermuda grasses and fertilizer, and will forward to Ardaman for review and approval.

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.
- Regarding the pending as-built survey for the upper south slope of the OGS, Mr. Remmert, representing Moretrench, inquired whether design grades necessarily had to be met. Ardaman stated that, as previously agreed, the slope inflection point (between the steeper 3:1 mid-slope and flatter 3.75:1 upper slope) can be field-adjusted downward as needed to balance gypsum cut and fill quantities along the south slope. Regarding high spots along the toe of the gypsum slope that will be amended and grassed (i.e., the upstream edge of the liner anchor trench excavation), gypsum cut can be spread upslope or used as fill to achieve design grades in the bottom of the south stormwater ditch.
- Excess soil cut from grading on the south side of the OGS south stormwater ditch can be used as a borrow source for grading in the SCP or soil berms associated with the Phase II - NGS Slope Closure work. Soil mixed existing gypsum pockets, if encountered along the south side of the south stormwater ditch, can be used for grading beneath the liner in the SCP.

Grading plans and cross-sections (drawings C-1 through C-5, dated 11/28/05), were distributed by Ardaman at the 11/30/05 meeting for Phase II closure of the NGS north, east and south exterior slopes and lined stormwater ditches/ponds. ***Electronic (ACAD) versions were made available on Ardaman's ftp site on 12/1/05.*** Detail drawings for structures and drains are in progress.

A preliminary grading plan (drawing C-1, dated 11/28/05) was distributed by Andaman at the 11/30/05 meeting for closure of the SCP south compartment, and a topographic map of the construction area (drawing G-6, dated 11/28/05), with pond bottom elevations of the south compartment based on soundings taken on 3/2/05.

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Quality Control Activities

- Andaman had 6 technicians on site this reporting period.
- In-place gypsum density tests - 702 tests passing, 5 failing (NGS-N Relief Ditch), 9 pending.
- In-place soil fill density tests - 62 passing, none failing, none pending.
- NGS-S Cap liner seam destructive testing (DT's): 38 marked, 24 passing, 1 failing (DT-25), 15 pending (including DT-25R). A summary report of testing status last updated on 11/30/05 (revision 6).
- NGS-S Cap liner anchor trench density tests - 6 passing, none failing, none pending.
- NGS-S Cap 40-mil liner roll conformance testing - summary of testing status report was last updated on 11/17/05 (revision 2) - all rolls were conditionally approved for deployment at the 11/17/05 meeting.
- NGS-N Relief Ditch 60-mil liner roll conformance testing - samples were en route to Ardaman's Orlando lab on the day of the meeting.

Miscellaneous

- Rainfall: CDM reported 0.75 inches from 11/29/05 through 12/6/05.

Acceptances

- NGS-S Cap liner for soil cover - on 12/2/05, the west ½ was accepted; the east ½ should be ready for final inspection next week.
- NGS-N Relief Ditch gypsum subgrade for amendment and grassing - on 12/6/06, the north slope was accepted from station 202+00 to 220+00, and the south slope from 209+00 to 216+00.

9.0 COMMENTS by PROGRAM MANAGER

- A change order for changes in gypsum cut/fill quantities was forwarded on 12/7/05 to FDEP..
- Reconciliation of Compass pay quantities for soil fill and grassing is in progress. Pay quantities were previously sent for review to Ardaman and FDEP for all pay items except the NGS-N Relief Ditch, for which CDM is waiting on input from Compass.
- A cost proposal from Compass, to install the for the OGS-S filter drain, was forwarded on 12/8/05 to FDEP and Ardaman for review.
- Regarding the current condition of the existing grass on the west slope of the NGS-N Compartment, CDM previously advised of their intent to re-fertilizer via the sprinkler system.

10.0 COMMENTS by FDEP

- See 6.0 Project Schedule re scheduling comments.
- Results of latest sampling of the Gulfstream II borrow pit are presently being re-evaluated. Regarding an ERP permit, Compass indicated that Gulfstream is modifying an existing permit - FDEP cautioned that the review process could be lengthy.
- CDM was requested to determine if there is enough soil borrow in the Gulfstream I borrow pit to complete Phase 1 closure activities.