

ARDAMAN & ASSOCIATES, INC. PROGRESS MEETING REPORT FOR PINEY POINT GYPSUM STACK SYSTEM CLOSURE		File No.: 05-110A Meeting Date: <u>1/19/06</u> Report No: <u>44</u>	Page 1 of 4 Report Date: <u>1/26/06</u>
Project Name:	CLOSURE CONSTRUCTION - OGS & NGS SLOPES, PHASE III TOP GRADIENT AREAS, RESERVOIR SOIL COVER & SCP-S COMPARTMENT		Project Address: 13300 U.S. Highway 41 North Palmetto, Florida 34221 Manatee County
ATTENDEES: Ardaman: Nadim Fuleihan, Rob Werner, John Cameron, Tony Deatherage Receiver: Louis Timchak FDEP: John Coates, Sam Zamani CDM: Dean Carter, Mike Cruz, Steve Solters, Jean Wilson Moretrench: Steve Voytko, Ralph Remmert, Harley Frady Comanco: Brad DeNeve Compass: Dan Felton, Vernon Giles, Tom McSweeny			

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: Dan Felton, Vernon Giles, Tom McSweeny

***Next Meeting is Scheduled for Thursday, January 26, 2006
 Construction/Engineering Meeting at 9:00 am***

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:

- Continued work on the on the NGS-N west slope and ditch; also excavating the 1:1 cut and ditch on the OGS slopes and stockpiling excess gypsum. No gypsum was hauled since last report.
- Process Water usage this report - approximately 85,000 gallons.
- Well Water usage this report - approximately 15,000 gallons.
- Equipment: 4 D-6 dozers, 1 D-8 dozer, 2 compactors, 2 backhoes, 1 water wagon, 2 dump trucks - 14 personnel; demobilized 1 compactor since last report.

Comanco:

- Continued deployment of 60-mil liner at the NGS-N Relief Ditch; approximately 57,500 sf (1.3 ac) was deployed since last report; 215,500 sf (4.9 ac) total; also continued detail work.
- Continued geocomposite installation in the OGS-S Reservoir; approximately 15,600 sf was installed since last report; 65,500 sf total.
- Equipment: 1 QC trailer, 6 generators, 3 wedges, 4 extruders, 2 jumping jack compactors, 2 sewing machines, 1 backhoe, 1 loader, 1 gator - 18 personnel.

ARDAMAN & ASSOCIATES, INC. PROGRESS MEETING REPORT FOR PINEY POINT GYPSUM STACK SYSTEM CLOSURE	File No.: 05-110A	Page 2 of 4
	Meeting Date: <u>1/19/06</u>	
	Report No: <u>44</u>	Report Date: <u>1/26/06</u>
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

Compass:

- Continued excavating and screening soil from Marsh No. 6 and started screening soil from Marsh No. 7.
- Continued hauling soil fill from Gulfstream I borrow area for cover on the OGS-S Reservoir slopes; 15,576 cy was hauled since last report; 25,608 cy total as of 1/17/06.
- Completed gypsum amending on the OGS-S south slope.
- Completed grassing soil cover on the NGS-S Cap.
- Installed concrete pads at the OGS-S cap and OGS-N slope pond
- Fresh Water usage this report - approximately 150,000 gallons.
- Equipment: 8 dump trucks, 2 water wagons, 2 loaders, 3 backhoes, 3 dozers, 2 power screens, 2 compactors, 2 motor graders - 25 operators.

4.0 PROJECTED WORK FOR NEXT WEEK

Moretrench:

- Continue work on the OGS west and north slopes, ditches and toe roads, and on the NGS-N west slope, ditch and toe road.
- Install the 18" culvert between the OGS north and west stormwater ditches - the access ramp at the northwest corner of the OGS will have to be excavated and temporarily closed to do this work.
- Install the stainless steel cage at the NGS-N Relief Ditch inlet structure; also install batten bars and HDPE plate for the liner tie-in. See 8.0 Technical Items - Miscellaneous for more. [Note: It was later decided that the batten bar installation would be undertaken by Comanco.]

Comanco:

- Continue liner deployment and detail work at the NGS-N Relief Ditch.
- Continue geocomposite installation in the OGS-S Reservoir.

Compass:

- Continue excavating and screening soil at Gulfstream I borrow area.
- Continue placement of soil slope cover on the OGS-S Reservoir slopes.
- Continue work on amending and grassing gypsum.

5.0 SURVEY NOTES

- Pickett performed an "as-built" survey on 1/12/06 for Moretrench on the OGS west slope above the 1:1 cut from approximately station 123+00 to 133+00, to which Ardaman provided comments at the meeting. In that this area was reworked and compacted subsequent to the 1/12/06 survey, an updated as-built survey is required to evaluate grades. Moretrench was also requested to provide an as-built survey for the OGS slope - southwest corner area from station 118+00 to 123+00.
- Pickett is scheduled to perform a take-up survey for Moretrench on 1/20/06. Pickett will also survey excess gypsum presently stockpiled at several locations in the NGS-N west and OGS north and west stormwater ditches. See 8.0 Technical Items - Miscellaneous for more.

6.0 PROJECT SCHEDULE

- Workdays lost to weather this reporting period: Moretrench 0, Comanco 2, Compass 1.
- CDM updated the project schedule on 1/17/06 to reflect work progress through that date. The updated schedule was distributed by email on 1/18/06, and hard copies were distributed and discussed at the meeting. CDM indicated that activities for the SCP south compartment are still being evaluated with Moretrench. CDM meetings with subcontractors have and will continue to precede schedule updates, and the updated schedule reflects agreements made during such

ARDAMAN & ASSOCIATES, INC. PROGRESS MEETING REPORT FOR PINEY POINT GYPSUM STACK SYSTEM CLOSURE	File No.: 05-110A	Page 3 of 4
	Meeting Date: <u>1/19/06</u>	
	Report No: <u>44</u>	Report Date: <u>1/26/06</u>
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	

meetings. Compass, Comanco and Moretrench indicated that they have no exceptions to the current schedule. See 10.0 Comments by FDEP for more.

- Weekend work schedule: Comanco on Saturday (NGS-N Relief Ditch) and Compass on Saturday (screens).

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 activity this report.

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. Current drawings, dated 12/16/05, were distributed at the 12/16/05 meeting for Slope Cover Construction - OGS Ponds. Current drawings (including all detail drawings for structures, drains, etc.), dated 12/22/05 (various revision nos.), for the Phase II Slope Closure were delivered to CDM at the site on 12/23/05. Current drawings (including all detail drawings for structures, drains, etc.) , dated 1/11/06 (various revision nos.), for the SCP-South Compartment Closure were distributed on 1/12/06, along with CD's containing ACAD files for all current for the SCP-South and Phase II slope Closure drawings.

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. Additional supplemental specifications for "Woven Geotextile" and "General Earthwork Using Soil" (Sections 31 and 32, both revision 1, dated 1/4/06) were distributed at the meeting on 1/5/06.

- 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.
- Preliminary drawings and CD's were distributed at the 9/15/05 meeting for the NGS-S Soil Slope Cover Construction, C-1 through C-5 for Contractor's use in estimating take-off quantities.

Quality Control Activities

- Ardaman had 7 technicians on site this reporting period.
- In-place gypsum density tests - 761 tests passing, 5 failing (OGS south slope (3 tests) and north slope (2 tests) below the 1:1 cut), 7 pending.
- In-place soil fill density tests (OGS and NGS-N Caps) - no change - 87 passing, none failing, none pending.
- In-place soil fill density tests (OGS-S slope cover) - 15 passing, none failing, none pending
- NGS-N Relief Ditch liner seam destructive testing (DT's): 22 marked, 16 passing, 1 failing (DT-3), none pending. A summary of DT results (dated 1/19/06, revision 1) was distributed at the meeting.
- 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 - summary of testing status report was last updated on 12/22/05 (revision 1) - 23 rolls (of 23 total) were conditionally approved for deployment at the 12/22/05 meeting.

Miscellaneous

- Rainfall: CDM reported 0.50 inches from 1/10/06 through 1/17/06.
- CDM completed wrapping the OGS-S inlet screen with geotextile fabric.
- Regarding excessive ruts observed on 1/5/06 in the soil cover along some sections of the OGS-S Cap and OGS Slope Pond at the time that seeding and mulching operations were in progress, the areas were observed during the site tour

ARDAMAN & ASSOCIATES, INC. PROGRESS MEETING REPORT FOR PINEY POINT GYPSUM STACK SYSTEM CLOSURE	File No.: 05-110A	Page 4 of 4
	Meeting Date: <u>1/19/06</u>	
	Report No: <u>44</u>	Report Date: <u>1/26/06</u>
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and found to be in acceptable condition. The previously observed ruts had either been smoothed-out during mulch cut-in (disking) or had been filled to some extent with wind-blown soil.

- Excess gypsum materials from final grading operations for the OGS stormwater ditch liner subgrade are being stockpiled in the ditch area. As described in a 1/13/06 Ardaman email, the excess gypsum can be temporarily stockpiled within designated areas along the inside edge of the process water return ditch for future use in grading operations associated with closure of the return ditch. It is noted that determination of the actual quantity of excess gypsum requires evaluation of pending as-built surveys for the stormwater ditch liner subgrade. *[FDEP, CDM, Moretrench and Ardaman met after the construction meeting and it was agreed that Moretrench would provide Ardaman with take-up survey data for use in estimating the volumes of the existing "excess" gypsum stockpiles and remaining cut quantities (along the southern half of the OGS west slope). It was further agreed, in concept, that Moretrench could be compensated, through CDM (without mark-up) for relocation of the excess gypsum at a unit rate to be determined for the quantity estimated as described above - assuming that the volumes of existing stockpiled excess (bulked) and excess that is expected to be generated through remaining excavation to design grades are about equal (considering that the average density of stockpiled and in-situ excess gypsum would be on the order of the expected density of dozer-placed and track-compacted fill in the relocated stockpiles), and assuming a total excess volume on the order of 5,000 cy.]*
- CDM submitted a plan by email on 1/12/06 to temporarily relocate the 24" HDPE pipe which presently feeds the NGS-N spray evaporation system (SE-1). Ardaman replied by email on 1/13/06 that the concept was acceptable, and provided installation requirements in follow-up emails on 1/13/06 and 1/17/06.
- Ardaman provided an alternate method by email on 1/17/06 to provide an HDPE anchor strip at the NGS-N Relief Ditch inlet, to which the ditch liner can be welded.

Acceptances

- OGS-S slope for gypsum amendment and grassing - on 1/19/06, from station 134+30 to the northwest ramp.

9.0 COMMENTS by PROGRAM MANAGER

- 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. CDM/Compass also indicated that their soil cover quantity estimate for the OGS Slope Pond is being revised/corrected.
- CDM is awaiting input from Moretrench and Compass on Phase II closure and the SCP south compartment.
- Compass was requested to submit a cost proposal for the filtration drain associated with the planned OGS-N Reservoir soil cover construction.

10.0 COMMENTS by FDEP

- CDM/Compass were requested to maintain minimum 2' cover on crest roads which are being utilized for construction traffic, where liner is presently covered with 2' of soil. In particular, ruts should be in-filled with additional soil rather than graded out, to assure that adequate cover is maintained.
- CDM/Moretrench were requested to complete evaluation and scheduling of the SCP south compartment prior to the next construction meeting on 1/26/06. It was agreed that CDM/Moretrench would provide the Department with an expected timeframe for consideration of approaches for the SCP-S closure work by Friday January 20.
- It was noted that the design provided by Ardaman reflects the intent to minimize the required quantity of soil fill beneath the liner. In the event that CDM feels this approach would result in any extra costs for sludge handling, or any other costs beyond those currently outlined in the contract for closure of the SCP, then the FDEP may wish to proceed based on the design approach outlined in the ITN and BAFO documents.

11.0 COMMENTS by the RECEIVER

- The Receiver is presently working with Ardaman to develop a master list and control sheet for all design drawings, as-built surveys, etc.