

ARDAMAN & ASSOCIATES, INC. PROGRESS MEETING REPORT FOR PINEY POINT GYPSUM STACK SYSTEM CLOSURE		File No.: 05-110A	Page 1 of 4
		Meeting Date: <u>2/2/06</u>	
		Report No: <u>46</u>	Report Date: <u>2/8/06</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 Fuleuhan, Rob Werner, John Cameron, Tony Deatherage Receiver: _____ 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 McSweeney			

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, Rishi Vasudeva
Compass: Dan Felton, Vernon Giles, Tom McSweeney

***Next Meeting is Scheduled for Thursday, February 9, 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 compacting and finish grading the NGS-N west slope and ditch; no gypsum was hauled since last report.
- Started excavating dewatering ditches in SCP south compartment (it was observed during the site tour that the entire compartment had also been trafficked with bulldozers). Moretrench indicated that they are still in the "exploration" phase of work.
- Installed stainless steel cage at the NGS-N Relief Ditch inlet structure.
- Excavated the OGS south seepage ditch to original grade - see 10.0 Comments by FDEP for more.
- Process Water usage this report - none.
- Well Water usage this report - approximately 100,000 gallons.
- Equipment: 3 D-6 dozers, 1 D-8 dozer w/ripper, 2 compactors, 3 backhoes, 1 water wagon, 2 dump trucks - 14 personnel.

Comanco:

- Completed detail work for the NGS-N Relief Ditch, including installation of batten bars and HDPE plate (as subcontractor to Moretrench) and tie-in liner at the inlet structure; also started compaction at the anchor trench
- Continued geocomposite installation in the OGS-S Reservoir; approximately 1,000 sf was installed since last report; 71,150 sf total.
- Continued moving concrete bags off the OGS-S slope, as necessary for soil cover work to proceed.
- 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>2/2/06</u>	
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Compass:

- Continued excavating and screening soil from Marsh Nos. 6 and 7.
- Continued hauling soil fill from Gulfstream I borrow area for cover on the OGS-S Reservoir slopes; 6,204 cy was hauled (estimated by truck load count) since last report; 43,318 cy total as of 2/1/06.
- Completed seeding and mulching the OGS west slope from station 134+30 to 140+00.
- Fresh Water usage this report - approximately 250,000 gallons (Vernon will verify).
- Equipment: 8 dump trucks, 2 water wagons, 2 loaders, 4 backhoes, 3 dozers, 2 power screens, 2 compactors, 2 motor graders - 27 operators.

4.0 PROJECTED WORK FOR NEXT WEEK

Moretrench:

- Continue work on the NGS-N west and OGS west and north slopes, ditches and toe roads.
- Continue excavation of dewatering ditches in the SCP-S compartment.

Comanco:

- Continue anchor trench compaction at the NGS-N Relief Ditch.
- Continue geocomposite installation in the OGS-S Reservoir.
- Start liner deployment at the NGS-N west stormwater ditch, pending subgrade acceptance.
- Approximately 100 rolls of 80-mil liner have been ordered for stormwater ditches.

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 of the OGS north ditch on 1/26/06. Copy of the survey (hard copy and electronic copy in pdf format) were provided to Ardaman on 1/31/06. A marked-up copy of the survey was provided by Ardaman at the meeting, indicating corrective work required at station 149+00. It was noted that the survey indicates that the ditch slope below the 1:1 anchor trench excavation has been overcut on the order of 350 cy within the subject area so while the subgrade is deemed to be acceptable for liner installation, the overcut volume will need to be deducted from the "excess gypsum" stockpile and will need to be made-up for with soil cover.
- Pickett performed an updated take-up survey for Moretrench on 1/23/06. Moretrench indicated that the survey represents current elevations above the 1:1 cut on the OGS west slope from station 117+00 to 128+00, for which CDM is requesting release for gypsum amendment and grassing. Hard copies of the survey were provided to Ardaman after the meeting.
- Pickett is scheduled to perform an as-built survey for Compass of soil cover on the OGS-S east slope.
- Pickett is scheduled to perform an as-built survey for Moretrench of gypsum subgrade at the NGS-N west stormwater ditch.

6.0 PROJECT SCHEDULE

- Workdays lost to weather this reporting period: Moretrench 1, Comanco 1, Compass 1.
- CDM updated the project schedule to reflect work completed through 2/1/06, and distributed and reviewed the schedule at the meeting. It was noted that activities for closure of the SCP south compartment have been added and/or revised, and that additional changes are likely. See 10.0 Comments by FDEP for more.
- Weekend work schedule: Compass on Saturday (screens).

ARDAMAN & ASSOCIATES, INC. PROGRESS MEETING REPORT FOR PINEY POINT GYPSUM STACK SYSTEM CLOSURE	File No.: 05-110A	Page 3 of 4
	Meeting Date: <u>2/2/06</u>	
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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).

- Comanco submitted a proposed panel placement drawing for the NGS-N west and OGS north stormwater ditches. The drawing was approved by Ardaman by email on 1/27/06.

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 - 798 tests passing, 5 failing (OGS south ditch -3 tests, OGS west ditch - 1 test, OGS north ditch - 1 test), 1 pending.
- In-place soil fill density tests (OGS-S slope cover) - 26 passing, none failing, 2 pending
- NGS-N Relief Ditch liner seam destructive testing (DT's): 32 marked, 32 passing, none failing, none pending. A summary of DT results (dated 1/27/06, revision 3) was distributed by email on 1/27/06 - DT testing for the NGS-N Relief Ditch is complete.
- NGS-N Relief Ditch anchor trench density tests: 3 passing, 3 failing, none pending.
- Moretrench requested copies of laboratory standard Proctor compaction test results for Piney Point gypsum. Copies were emailed by Ardaman on 1/31/06 to CDM, including several one-point field tests.

Miscellaneous

- Rainfall: CDM reported 0.19 inches from 1/25/06 through 1/31/06.
- At prior meetings, it was agreed that Moretrench could undertake "exploration" work to evaluate conditions in the SCP-S compartment pertinent to assessing construction methods and, as repeatedly requested by FDEP, to enable CDM/Moretrench to determine if the ITN/BAFO design (i.e., capping the pond bottom sediments in-place with a reinforcing geotextile and minimum 2 feet of soil fill prior to liner and soil cover installation) was preferred over the current closure design. During the site tour, and as discussed at the meeting, the FDEP and Ardaman were surprised that this exploration phase had encompassed essentially the entire SCP-S pond bottom (and by dozer and track-hoe traffic had disturbed any previously existing surface crust and liquefied essentially all of the pond bottom sediments).

ARDAMAN & ASSOCIATES, INC. PROGRESS MEETING REPORT FOR PINEY POINT GYPSUM STACK SYSTEM CLOSURE	File No.: 05-110A	Page 4 of 4
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Once CDM/Moretrench have committed to the current design, they will be free to proceed with whatever dewatering, site preparation deemed necessary. Any further exploration conducted prior to responding to the FDEP's inquiry regarding the closure design should be undertaken in a small portion of the pond, and not encompass the entire pond.

- Dewatering concepts for closure of the SCP-S compartment were discussed at the meeting, including the need to establish the relief ditch within the area between the two SCP compartments.

Acceptances

- OGS north slope and NGS-N west slope for gypsum amendment and grassing - on 2/2/06, from station 146+00 (OGS northwest ramp) to station 163+30 (north end of NGS-N west slope).
- OGS west slope for gypsum amendment and grassing - on 2/2/06, from station 128+00 to 134+30.
- NGS-N Relief Ditch liner - a final inspection will be conducted after the meeting.

9.0 COMMENTS by PROGRAM MANAGER

- Reconciliation of Compass pay quantities for soil fill and grassing are 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; also from Comanco on the SCP south compartment.
- Regarding Phase II liner quantities, Ardaman indicated by email on 1/24/06 essential agreement with Comanco's estimates. Comanco agreed at the meeting to accept Ardaman's quantities.
- Regarding Phase II gypsum and soil quantities, Ardaman indicated by email on 1/23/06 that there are substantial discrepancies between Moretrench's estimates and the Engineer's design quantities. Ardaman and Moretrench are corresponding in an effort to reconcile these quantities.
- Compass was requested to submit a cost proposal for the filtration drain associated with the planned OGS-N Reservoir soil cover construction, and for the OGS-S inlet structure modification.
- Regarding proposed revisions to the Gulfstream Soil Handling Plan, as proposed by CDM by email on 1/30/06, it was requested at the meeting that the revision be proposed as an amendment instead of rewriting the document.

10.0 COMMENTS by FDEP

- FDEP again reiterated concerns with finalization of CDM's approach to sludge handling in the SCP south compartment, and finalization of the schedule for this portion of the project. In particular, it was requested that work resume as soon as possible to excavate the ditch between the north and south compartments.
- As indicated in 3.0 Summary of Work Performed, Moretrench excavated erosion infill from the OGS south seepage collection ditch. CDM was requested to perform an as-built survey, and to recommend erosion control measures as necessary to maintain a hydraulic barrier at this location.

11.0 COMMENTS by the RECEIVER

- The Receiver was not represented at the meeting.