

ARDAMAN & ASSOCIATES, INC. PROGRESS MEETING REPORT FOR PINEY POINT GYPSUM STACK SYSTEM CLOSURE		File No.: 05-110A Meeting Date: <u>1/26/06</u> Report No: <u>45</u> Report Date: <u>2/1/06</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: Rob Werner, John Cameron, Tony Deatherage Receiver: _____ FDEP: John Coates (via telecom) CDM: Dean Carter, Mike Cruz, Steve Solters, Jean Wilson Moretrench: Steve Voytko, Ralph Remmert, Harley Frady Comanco: Tom Topp, Rishi Vasudeva, 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, Ralph Remmert
 Comanco: Tom Topp, Brad DeNeve, Rishi Vasudeva
 Compass: Dan Felton, Vernon Giles, Tom McSweeney

Next Meeting is Scheduled for Thursday, February 2, 2006
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:

- Continued compacting and finish grading the NGS-N west stormwater ditch; also excavating the 1:1 cut and ditch on the OGS slopes. 4,082 cy of gypsum (estimated by truck load count) was hauled since last report.
- Installed and backfilled the 18-inch stormwater ditch culvert at the OGS northwest ramp.
- Process Water usage this report - none.
- Well Water usage this report - approximately 125,000 gallons.
- Equipment: 3 D-6 dozers, 1 D-8 dozer w/ripper, 2 compactors, 2 backhoes, 1 water wagon, 2 dump trucks - 13 personnel.

Comanco:

- Completed deployment of 60-mil liner at the NGS-N Relief Ditch on 1/26/06; approximately 75,500 sf (1.7 ac) was deployed since last report; 291,000 sf (6.7 ac) total; also continued detail work.
- Continued geocomposite installation in the OGS-S Reservoir; approximately 4,650 sf was installed since last report; 70,150 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.

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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; 11,506 cy was hauled (estimated by truck load count) since last report; 37,114 cy total as of 1/25/06.
- Completed seeding and mulching the OGS south slope from station 100+00 to 117+00.
- Amended gypsum on the OGS west slope from station 134+30 to 140+00.
- Fresh Water usage this report - approximately 400,000 gallons.
- Equipment: 8 dump trucks, 2 water wagons, 2 loaders, 4 backhoes, 3 dozers, 2 power screens, 2 compactors, 2 motor graders - 27 operators; mobilized 1 backhoe since last report.

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.
- Install the stainless steel cage at the NGS-N Relief Ditch inlet structure.
- Begin excavation of dewatering ditches at the SCP south compartment.

Comanco:

- Continue detail work at the NGS-N Relief Ditch; install batten bars and HDPE plate (as subcontractor to Moretrench) and tie-in liner at the inlet structure.
- Continue geocomposite installation in the OGS-S Reservoir.
- Start liner deployment at the NGS-N west stormwater ditch, pending subgrade acceptance.

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 a survey of the NGS-N west stormwater ditch on 1/23/06. This area was subsequently reworked and compacted, hence a final as-built survey is required. The 1/23/06 Pickett survey also included updated grades along the top of the 1:1 cut in the OGS stormwater ditch from station 123+00 to 155+00. Data for the "fattened" slope at the south end of the NGS-N west slope approximately between stations 152+50 and 154+00 represent as-built grades which will be used to determine extra as-built fill quantities (refer to Ardaman 1/4/06 email for potential grading field adjustments to balance cut/fill in this area) - see 8.0 Technical Items - Miscellaneous for more.
- Pickett performed a preliminary as-built survey on 1/12/06 for Moretrench on the southern half of the OGS west slope above the 1:1 cut from approximately station 123+00 to 133+00. Ardaman provided comments on that survey at the 1/19/06 construction meeting. This area was reworked and compacted subsequent to the 1/12/06 survey, hence an updated survey is required to evaluate final as-built grades. [Updated survey elevations along the top of the 1:1 cut between stations 123+00 and 133+00 were included in the 1/23/06 Pickett survey, however, additional as-built elevations on the slope above the 1:1 cut are needed to check for grade compliance.
- Pickett performed a take-up survey for Moretrench on 1/19-1/20/06; results are not yet available. Results of this survey, or final as-built surveys, where applicable) will be used to determine as-built fill quantities in specific areas where slopes were either "fattened" (e.g., along a short section of the north slope of the NGS-N Relief Ditch at the ramp between the OGS-N and NGS-S ponds) or where revised design grades were not achieved (i.e., along portions of the OGS south slope) - see 8.0 Technical Items - Miscellaneous for more.
- Pickett surveyed excess gypsum stockpiles, located at several locations in the NGS-N west and OGS north and west stormwater ditches, on 1/19/06 for Moretrench - see 8.0 Technical Items - Miscellaneous for more.
- Pickett is scheduled to perform an as-built survey of soil cover for Compass on the OGS-S east slope.

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6.0 PROJECT SCHEDULE

- Workdays lost to weather this reporting period: Moretrench 0, Comanco 0, Compass 0.
- CDM met with subcontractors on 1/14/06 to obtain input to update the project schedule. CDM also emailed an updated activity log to subcontractors for additional SCP-S compartment activities, and requested feedback on sequence and duration of these activities. CDM will update and distribute the project schedule on 1/31/06.
- CDM completed excavating the first 2' from the ditch between the SCP south and north compartments - see 9.0 Comments by Program Manager for more.
- Weekend work schedule: 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).

- Compass provided Ardaman with qualification samples of two gravel materials that are under their consideration for use in conjunction of the filter blanket along the edge of the OGS soil slope cover. Results of preliminary testing were distributed at the meeting: Results of gradation tests on a sub-angular crushed limestone sample provided on 1/12/06 indicated general compliance with specifications, except that the sample exceeded the maximum specified fines content. Ardaman indicated that this type material could be used, provided the fines content of the gravel supplied is not greater than 2 percent. The second sample, a gray crushed rock provided on 1/19/06, consisted predominantly sharp-angular particles and thus is deemed not acceptable. [It was noted that CDM/Compass have not made a formal submittal for their proposed gravel material to-date.]
- Comanco was requested to provide a proposed panel placement drawing for the NGS-N (west) and OGS stormwater ditches.

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 - 785 tests passing, 9 failing (OGS south ditch -3 tests), OGS north ditch - 3 tests), NGS-N west ditch - 3 tests), 4 pending.

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- In-place soil fill density tests (OGS and NGS-N Caps) - no change - 87 passing, none failing, none pending - complete.
- In-place soil fill density tests (OGS-S slope cover) - 23 passing, none failing, none pending
- NGS-N Relief Ditch liner seam destructive testing (DT's): 32 marked, 27 passing, none failing, 5 pending. A summary of DT results (dated 1/25/06, revision 2) was distributed at the meeting. [A final summary of results (revision 3 - Final) was sent via email on 1/26/06].
- NGS-N Relief Ditch anchor trench density tests: none passing, 2 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 - 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 0.00 inches from 1/18/06 through 1/24/06.
- Based on results of a 1/19/06 survey and calculations by Pickett for Moretrench, approximately 10,200 cy of excess gypsum generated through final rough grading of the OGS stormwater ditch has either been stockpiled in the ditch area or will be generated through excavation of the remaining southern portion of the OGS west stormwater ditch to design grades. Ardaman reported concurrence with the reported volumes based on independent calculations using the 1/19/06 survey results. Moretrench indicated that some additional excess gypsum is projected that is not reflected in the 1/19/06 survey and that this additional volume would be quantified shortly. 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.

FDEP, CDM, Moretrench and Ardaman met after the 1/19/06 construction meeting and it was agreed that Moretrench could be compensated, through CDM (without mark-up) for relocation of the excess gypsum on a unit rate basis for the relocated in-place quantity which could be estimated as being equal to the combined quantity of existing stockpiled excess (bulked) and excess that is expected to be generated through remaining excavation to design grades, assuming these two volumes are approximately 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). At the time of that discussion, it was assumed that the total relocated excess gypsum volume would be on the order of 5,000 cy. It is our understanding that, based on an updated survey of the stockpiles and revisec calculations by Pickett on 1/27/06 (which included the additional excess gypsum described above which had since been added to the stockpile), that Moretrench is reporting an updated total excess gypsum volume of 11,462 cy. Based on review of the 1/19/06 survey results, Ardaman estimates that approximately 80 percent of this total volume is bulked, stockpiled material. It has been noted that determination of the actual quantity of excess gypsum requires evaluation of pending as-built surveys for the stormwater ditch liner subgrade.

- Regarding measurements for pay quantities, payment for in-place fill is based on previously agreed-upon neat design fill quantities and hence there is no measurement for payment or credit with the following exceptions: (i) measurement of the as-built fill quantity deficit where final design grades along the south slope of the OGS where not achieved; (ii) measurement of the as-built additional fill quantity placed above design grades to fatten the slope at the southwest corner of the NGS-N compartment; and (iii) measurement of the as-built additional fill quantity placed above design grades to fatten the north slope of the Relief Ditch at the ramp between the OGS-N and NGS-S compartments.

Acceptances

- None since last report.

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.

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- 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 that Comanco's estimates are in close agreement with the Engineer's quantities.
- Regarding Phase II gypsum and soil quantities, Ardaman indicated in a 1/23/06 email that there are substantial discrepancies between Moretrench's estimates and the Engineer's design quantities. Ardaman and Moretrench will correspond 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.
- CDM advised that excavation of the relief ditch between the SCP-N and SCP-S compartments was temporarily suspended as their long-stick backhoe was redirected to other site management work. CDM indicated that Moretrench would be requested to resume this work next week.

10.0 COMMENTS by FDEP

- FDEP 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. CDM was requested to complete their evaluation and scheduling of the SCP south compartment prior to the next construction meeting on 2/2/06.
- Regarding the planned field testing by JBM&R for Moretrench, FDEP emphasized that acceptance by the Department will be based solely on results of the Engineer's third party quality control inspection and testing.

11.0 COMMENTS by the RECEIVER

- The Receiver was not represented at the meeting.