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| <b>ARDAMAN &amp; ASSOCIATES, INC.</b><br><b>PROGRESS MEETING REPORT FOR</b><br><b>PINEY POINT GYPSUM STACK SYSTEM CLOSURE</b>                                                                                                                |                                                                                                   | File No.: 06-110A           | Page 1 of 5                                                                             |
|                                                                                                                                                                                                                                              |                                                                                                   | Meeting Date: <u>7/5/07</u> |                                                                                         |
|                                                                                                                                                                                                                                              |                                                                                                   | Report No: <u>120</u>       | Report Date: <u>7/11/07</u>                                                             |
| Project Name:                                                                                                                                                                                                                                | <b>CLOSURE CONSTRUCTION - OGS &amp; NGS SLOPES,</b><br><b>NGS-N RELIEF DITCH, SCP-S AND SCP-N</b> |                             | Project Address: 300 U.S. Highway 41 North<br>Palmetto, Florida 34221<br>Manatee County |
| <u>ATTENDEES:</u><br>Ardaman: Nadim Fuleihan, Rob Werner (telecom), John Cameron, Tony Deatherage<br>FDEP:<br>CDM: Mike Cruz, Jack Partin, Jean Wilson, George Curry, Wayne Winner<br>Comanco: Paul Moore<br>Compass: Mike Slovensky<br>HRK: |                                                                                                   |                             |                                                                                         |

**COPY TO:** 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  
 Comanco: Tom Topp, Paul Moore  
 Compass: Tim Morrow, Jeremy Giles, Tom McSweeney, Mike Slovensky  
 HRK: Art Roth, Ivan Nance

***Next Meeting is Scheduled for Thursday, July 12, 2007***  
***Site Tour at 8:00 am followed by***  
***Construction/Engineering and CDM Operations Meetings at 9:00 am***

### 1.0 REVIEW MINUTES OF PREVIOUS MEETING

- No corrections were noted.

### 2.0 SAFETY

- A Comanco employee cut his left index finger on 7/2/07 while cutting liner; CDM forwarded a report to FDEP by email on 7/3/07.

### 3.0 SUMMARY OF WORK PERFORMED

#### Compass

- Well Water usage - none since last report.
- Water seed and sod areas; continued repairs to the NGS-S south slope.
- Started sod installation in the Phase I south stormwater ditch.
- Continued hauling soil from the Gulfstream II borrow area; total hauled as of 7/3/07 was reported 117,216 cy (estimated by truck count)
- Continued placing, grading and compacting soil cover on liner in the Phase I stormwater ditch liner.
- Continued placing, grading and compacting soil cover on liner in the NGS-N Relief Ditch.
- Started placing, grading and compacting soil cover on liner in the Phase II north stormwater pond.
- Equipment: 8 dump trucks, 2 water trucks, 6 D6 dozers, 2 excavators, 1 motor grader, 2 club carts, 1 skidsteer bobcat, 1 fuel truck, 4 pumps - 19 personnel. Added 2 dump trucks since last report.

#### Comanco

- Completed liner detail work on the SCP-S west compartment dikes and bottom on 7/3/07.
- Completed anchor trench compaction.
- All equipment demobilized except 1 QC trailer - 1 personnel

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## CDM

- Continued desiccating sludge and grading and compacting the SCP-N.
- Continued hauling soil-gypsum mix materials to the excess material stockpile area.
- Continued excavating excess material at the SCP-N west perimeter dike.
- Continued grading for installation of the SCP south seepage collection drain, and started drain installation.
- Resumed removing gypsum sediment from the Phase II lined stormwater ditch.
- Equipment: 7 dump trucks, 1 loader, 4 D6 dozers, 1 D4 dozer, 6 excavators, 2 compactors, 2 water trucks, 1 4-inch double diaphragm pump, 3 6-inch service pumps, 1 2-inch pump, 2 plate compactors, 1 12-inch fusing machine - 23 personnel. Added 1 D4 dozer and 1 excavator since last report.

## 4.0 PROJECTED WORK FOR NEXT WEEK

### Compass

- Water seeded and sodded areas; continue repairs on the NGS-S slopes.
- Continue hauling soil from the Gulfstream II borrow area and placing soil cover on the liner in the Phase II stormwater pond and the NGS-N Relief Ditch.
- Continue sod installation in the Phase I south stormwater ditch.
- Start hauling soil cover to the SCP-S, pending liner acceptance.

### Comanco

- No work is planned for next week; waiting on approved subgrade.

## CDM

- Continue desiccating sludge, grading and compacting the SCP-N, and hauling to the excess material stockpile area.
- Continue SCP-S south seepage drain installation.
- Continue removing gypsum sediment from the Phase II lined stormwater ditch.

## 5.0 SURVEY NOTES

- CDM/Edgemon will provide as-built survey for panel drain installation at the NGS Relief Ditch.
- CDM/Edgemon started as-built surveys for the SCP phase II seepage collection drain on 7/2/07.

## 6.0 PROJECT SCHEDULE

- ½ workday was lost to rain by Compass this reporting period.
- CDM will update and distribute the project schedule by email on 7/10/07.
- Weekend work schedule: CDM and Compass on Saturday.

## 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).

- A sample of woven geotextile sewn seam was submitted by CDM on 7/2/07 for use in the SCP phase II seepage collection system; CDM was advised by email on 7/3/07 that the seam was satisfactory, except that there was only 1 row of stitches, whereas 2 rows are required; CDM was requested to re-submit a sample with 2 rows of stitches for the record.

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## 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. Revised Phase I Slope Closure drawing Nos. C-2, C-5, C-6, D-6, D-9, D-10, D-11), dated 2/15/06 (various revision nos.) were distributed at the 2/16/06 construction meeting to reflect changes related to lowering the OGS south stormwater ditch seepage collection drain. Electronic (ACAD) are available for download from Ardaman's ftp web site. 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. Revised SCP-South Compartment Closure Drawing No. D-6, dated 2/15/06 (Rev. 1), was distributed at the 2/16/06 construction meeting to reflect changes related to the lowered the OGS south seepage collection drain - an electronic version (ACAD) was emailed to CDM and Moretrench on 2/28/06. Regarding finish grades for the SCP-S Process Water Sump, a drawing was provided by Ardaman at the 7/6/06 construction meeting (and attached to meeting minutes) indicating optional design grades for the pond bottom area, which were adopted by CDM/Compass. Drawing Nos. C-1, C-3, C-4, D-1 and L-1 will be updated for the record to indicate the revised grading plan.

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.

- 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.
- Drawings were distributed by Ardaman at the 7/20/06 meeting for additional panel drains required in the following areas: OGS Slope Pond, OGS-N Cap, OGS west and south ditches, and the NGS-S east ditch.
- Final drawing sets for the SCP phase 2 closure, dated 11/8/08, including all detail and liner drawings, were issued for construction and distributed at the 11/16/06 (hard copies and CD's). Additional signed large drawings sets were distributed at the meeting. Supplemental drawings were distributed at the 3/29/07 meeting to clarify installation of the SCP-S seepage collection drain system between point nos. 14 and 23 (end of drain). It was noted at the 4/5/07 meeting that the east end of the drain may be shortened to accommodate installation of a cut-off wall that is being considered in conjunction with design discussions related to the proposed Buckeye Road groundwater collection drain.
- Ardaman provided hard copies and a CD for Phase II Slope Closure drawing revisions on 12/14/06 as follows: C-1, revision 2, and D-2, revision 1, both dated 12/13/06.
- Drawings C-1, C-2, D-1, D-2 and D-3 were distributed at the 4/5/07 meeting for the First 50 percent - Plant Watershed Areas. Drawing C-1, revision 1 and a CD were distributed at the meeting for use as an interim grading plan.
- Ardaman distributed a detailed grading plan figure at the 5/10/07 meeting to clarify the transition from typical berm section to outlet pipe profile at the locations of the SCP cap outlets; additional clarifications were sent by email to CDM on 5/21/03 and 5/23/07.
- Regarding closure of the NGS-N crest roads, Ardaman replied to CDM's proposed location for placement of gypsum to be excavated to lower the crest roads to grade in a 6/6/07 email. A marked-up copy of the proposed typical cross section for placement of gypsum on the north end of the NGS-S east slope was provided a sketch at the meeting. See 8.0 Technical Items, Miscellaneous for more.

### Quality Control Activities

- Ardaman had 8 technicians on site this reporting period.
- In-place gypsum/soil density tests  
Phase II SCP closure - 125 passing, 2 failing, none pending.

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- In-place soil fill density tests  
OGS reservoir slope cover - no change - 59 passing, none failing, none pending.  
Phase I stormwater ditches soil cover - 63 passing, none failing, none pending.
- Liner conformance testing  
A summary of conformance testing, revision 4, was last updated and distributed by email on 6/28/07.
- Liner destructive testing (DT's)  
SCP Phase II pond - 81 marked, 81 passing, none failing, none pending.
- Liner anchor trench compaction  
SCP Phase II pond - 8 tests, 8 passing, none failing, none pending.

### Miscellaneous

- Rainfall was reported by CDM at 0.98" from 6/27/07 through 7/2/07.
- CDM and Ardaman continue to monitor the Granddaddy Boil location.
- Protection of the twin 18" gate valves on the NGS-N outlet pipeline and plans for final grading of the existing low area around the valves at the northwest corner on the NGS-N were discussed at the 5/17/07 meeting. Ardaman will provide a sketch for HRK's review and then to CDM for execution.
- Ardaman indicated at the 5/31/07 meeting that the design for the south drain segment east of Outfall 003 will be revised for compatibility with the proposed Buckeye Road groundwater collection drain and associated cutoff wall. CDM indicated their selection of drain Option 1 at the 6/21/07 meeting.
- Regarding removal and placement of gypsum from the NGS-N northern and western crest roads, Ardaman indicated to CDM by email on 6/8/07 that the capacity of the proposed placement area on the NGS-N northeast slope (station 26+50 to 30+50) is approximately 2,000 cy, whereas the anticipated cut volume is approximately 4,000 cy. Several supplemental gypsum placement areas have since been identified and checked for potential storage capacity, including the following: gypsum ramp at the northeast corner of the NGS-N (1,500 cy); NGS-N crest road west of the Relief Ditch (1,200 to 1,500 cy); NGS-N slope at the northwest corner (capacity not estimated). It was noted that some gypsum could also potentially be placed to on the wide gypsum crest road between the NGS-S Cap and the NGS-S as needed to restore the correct surface gradient (CDM offered to provide recent crest road elevation survey data for feasibility review).
- Regarding erosion repairs presently being performed by Compass on the Phase II slopes, it was noted during the 6/21/07 site tour that erosion gullies were being filled with loose dry soil, which has a high erosion potential. It was suggested that CDM/Compass consider wetting, scarifying, dressing and recompacting (tracking in with a dozer) the eroded gypsum surface prior to placement of soil dressing and re-seeding. CDM/Compass concurred and agreed to revisit and revise slope repair protocols.
- During the 9/21/07 site tour, CDM stated that they do not anticipate hauling substantial additional sludge from the SCP for disposal along the east side of the NCP. It was noted that maintenance (motorgrader or dozer blading) of the east dike of the NCP during the hauling operation appears to have resulting in lowering of the road along the east edge to a degree along some portions that the existing NGS-N west ditch liner anchor trench could have been affected. CDM agreed to survey and flag the liner anchor trench location to confirm that it was not damaged. Further, CDM agreed to locate and uncover the existing NGS-N outlet pipeline that had been buried along the west edge of the same road during the sludge handling/disposal process. CDM will use a probe to locate the pipe manual labor if needed to avoid any damage to the pipe during excavation. It was noted at the meeting that road drainage is blocked by the 24" pipe - CDM agreed to install culvert(s) as necessary to provide drainage. It was also noted that the pipe is gouged at several locations; Ardaman will evaluate whether or not repairs are necessary.
- Piezometer PZ 102 was damaged by Compass on the OGS south dike; CDM/Compass will repair.
- Seepage from the Gulfstream II recharge ditch system was recently observed to result in surface ponding on the Piney Point property in the vicinity of MW-10A. Field observations of high water levels in the bermed recharge ditch suggested that the level has been raised above the surrounded land surface. Ardaman requested that Compass review their permit conditions relative to the required water level in the recharge ditches and review with their consulting engineer (Geosyntec) - to be discussed further at the next Program Manager's meeting.

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- It was noted that surface water control activities associated with soil cover placement in the Phase II stormwater pond have included pumping clean runoff over the north dike where it then percolates into the ground - to be discussed at the next Program Manager's meeting.

### Acceptances

- On 7/2-3/07, SCP phase II seepage collection system, subgrade for drain installation from station 114+00 to 116+00.
- A final inspection of the SCP-S west compartment is scheduled after the meeting.
- On 6/28/07, following items were accepted for retainage release (invoice 18C):
  - Task C1, reservoir slope cover - drain composite installed to date
  - Task C3a, phase I slopes (OGS) - additional panel drains; other ancillary, except the portion of ancillary related to the drain segment to be installed with future stack system closure phases
  - Task C3b, phase II slopes (NGS) - soil import/earthwork; other ancillary, except the portion of ancillary related to 2000' drains not installed
  - Task C4b.2, SCP-S phase II closure - 48" manhole #1; 12" pipe between OGS drain and Manhole #1; 36" manhole #2; 24" relief drain manhole; 12" pipe between relief drain manhole and LPWS relief drain
- On 6/28/07, phase I slopes (OGS) - north, west and south grassed amended gypsum slopes (19.0 acres).

### 9.0 COMMENTS by PROGRAM MANAGER

- A proposal for gravel erosion protection, yet to be installed along the inboard slope of the access road at the toe of the OGS-S slope cover, was last discussed by conference call on 2/13/07 between FDEP, CDM and Ardaman. [Ardaman forwarded a sketch to CDM showing a potential cross section revision that may be considered to reduce the required gravel quantity via email on 2/23/07.] It has been agreed that the existing access ramps will be left in place until this work is done. Discussions are in progress with FDEP.
- Based on updated grassing tabulations previously forwarded to FDEP and Ardaman for review, change order no. 20 is in progress.
- CDM received an updated cost proposal from Compass for closure of the First 50 percent - Plant Watershed Area, which was forwarded to FDEP on 6/12/07; need to discuss.
- CDM has agreed to Ardaman's quantities for liner work and soil cover quantities for crest road closure.
- CDM requested a copy of the gas line as-built provided to Ardaman by FDEP at the 6/21/07 meeting.

### 10.0 COMMENTS by FDEP

- FDEP was not represented at the meeting.

### 11.0 COMMENTS by HRK

- HRK was not represented at the meeting.