

ARDAMAN & ASSOCIATES, INC. PROGRESS MEETING REPORT FOR PINEY POINT GYPSUM STACK SYSTEM CLOSURE		File No.: 06-110A	Page 1 of 4
		Meeting Date: <u>5/1/08</u>	
		Report No: <u>161</u>	Report Date: <u>5/8/08</u>
Project Name:	CLOSURE CONSTRUCTION - NGS SLOPES, SCP-S, SCP-N AND BASIN 2	Project Address: 13300 U.S. Highway 41 North Palmetto, Florida 34221 Manatee County	
ATTENDEES: Ardaman: Rob Werner (telecom), John Cameron, Tony Deatherage FDEP: CDM: Mike Cruz, Jean Wilson, George Curry Comanco: Paul Moore Compass: Jeremy Giles, Tim Morrow, Joseph Gunn (WRS) HRK/ECT: Jeff Barath			

COPY TO: FDEP: Phil Coram, Sam Zamani, John Coates
Ardaman: Nadim Fuleihan, Rob Werner, Tom Leto, John Cameron, Tony Deatherage
CDM: Dean Carter, Michael Edgar, Michael Cruz, Dick Slovarp, Jean Wilson
Comanco: Tom Topp, Paul Moore
Compass: Tim Morrow, Jeremy Giles
HRK: Art Roth, Ivan Nance

Next Meeting is Scheduled for Thursday May 8, 2008
Site Tour at 8:00 am Followed by Construction and PM's Meetings

1.0 REVIEW MINUTES OF PREVIOUS MEETING

- No corrections were reported.

2.0 SAFETY

- No accidents were reported.

3.0 SUMMARY OF WORK PERFORMED

Compass

- Continued grading and compacting soil cover on liner in the SCP stormwater pond and ditches (south ditch and Basin 2). No material was hauled this reporting period.
- Continued working to repair rip-rap pad at structure #4 (Phase II Slope Closure).
- Continued re-grading soil cover on the NGS-S Cap roads.
- Grassed (by seed) the top of the SCP Excess Material Stockpile area.
- Equipment: 1 dump truck, 1 water truck, 4 D-6 dozers, 2 excavators, 1 grader, 2 clubcars, 10 personnel; the longstick was de-mobilized since last report.

Comanco

- No work was performed this report.

CDM

- No contract work was performed this report.

4.0 PROJECTED WORK FOR NEXT WEEK

Compass

- Continue grading and compacting soil cover on liner in the SCP stormwater pond and ditches; Compass anticipates that they will be working 3 dozers on soil cover for 2 more weeks, then 2 dozers thereafter.

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- Continue repairs to the rip-rap pad at structure #4 (Phase II Slope Closure).
- Continue re-grading soil cover on the NGS-S Cap roads.
- Sod soil cover on the NGS-S Cap roads.
- See 6.0 Project Schedule for more.

CDM

- Continue installation of concrete aprons at seepage collection system clean-outs and install rip-rap pads, pending soil cover by Compass.

5.0 SURVEY NOTES

- As-built survey of OGS-S crest roads were provided by CDM to Ardaman by email on 8/16/07. Ardaman responded with comments on 9/19/07. CDM updated the survey with stations and sent by email to Ardaman on 10/8/07.
- CDM/Compass/Edgemon continued as-built surveys for various SCP Phase II and Slope Closure Phase II installations, as needed.
- An as-built survey of the NGS Cap Roads was provided by CDM on 4/23/08. CDM was advised that the survey indicates that the crest roads along most of the surveyed alignment are graded to drain in the wrong direction and need to be re-graded.

6.0 PROJECT SCHEDULE

- No workdays were lost to weather since last report.
- The project schedule will be updated prior to the next Program Manager's meeting. It had been requested at previous meetings that the schedule update include activities for closure of the Plant Watershed Areas and Buckeye Road Groundwater Collection System, and a projected date for deactivation of the return canal.
- Weekend schedule: no work is planned this weekend.

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 Mike Cruz (CDM).

8.0 TECHNICAL ITEMS/CLARIFICATIONS AND QUALITY ASSURANCE

Current Closure Construction Drawing Versions are summarized below. (See Meeting Minutes No. 122 or earlier for detailed version control background information):

- Phase II Slope Closure: Sets dated 12/22/05; except for drawing nos. C-1 (rev. 2) and D-2 (rev. 1) dated 12/13/06.
- SCP-S, SCP-N & Basin 2 Closure: Sets dated 11/8/08. Note that 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, the east end of the drain and limits of the lined stormwater ditch will be shortened to accommodate installation of a cut-off wall associated with the proposed Buckeye Road groundwater collection drain. See 8.0 Technical Items - Miscellaneous for more.
- First 50 percent - Plant Watershed Areas: Drawings C-1, C-2, D-1, D-2 and D-3 were distributed at the 4/5/07 meeting for the. Drawing C-1, revision 1 and a CD were distributed in May 2007.
- Ardaman issued revised "For Construction" drawings for the south drain and lined ditch segment east of Outfall 003 (to enable completion of the SCP south seepage drain and lined ditch segment east of Outfall 003 in advance and independently of construction associated with a Buckeye Road Groundwater Collection System). SCP Closure drawings C-1 (Rev. 5 dated 2/8/08), C-1A (Rev. 0 dated 2/8/08) and D-7 (Rev. 2 dated 2/11/08) were provided in pdf format via email of 2/12/08. Electronic CAD files were posted on Ardaman's ftp web site on 2/14/08.

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Regarding specifications, pertinent Phase III - NGS-S Reservoir Closure Specifications and ITN specification documents shall be used. Pertinent ITN specifications, along with specifications for HDPE panel drains and concrete erosion control mats, were compiled in a 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.

- Ardaman issued preliminary drawing sets, dated 8/8/07, rev. P1 - For Review, for the Buckeye Road Groundwater Collection System at the meeting. These drawings include the revised design for the south drain and lined ditch segments east of Outfall 003 (for compatibility with the proposed collection drain and cutoff wall).
- 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 at the meeting. See 8.0 Technical Items, Miscellaneous for more.

Quality Control Activities

- Ardaman had 4 technicians on site this reporting period.
- In-place soil cover density tests
SCP Phase II - no change - 143 passing, 5 failing, none pending.
- Liner conformance testing - no change
Table 1 revision 7 was last updated on 8/8/07 for SCP 40-mil smooth and 40-mil textured. Table 2 was updated on 10/25/07 (revision 11) for 80-mil textured; 30 of 30 rolls have been tested and conditionally approved. Table 3 was updated on 10/25/07 (revision 11) for 60-mil textured; 115 of 115 rolls have been tested and conditionally approved. [Note: additionally, 5 rolls of 60-mil and 8 rolls of 80-mil liner were conditionally approved for installation at the 2/7/08 meeting.]

Miscellaneous

- Rainfall was reported by CDM at 0.00" from 4/23/08 through 4/29/08.
- CDM and Ardaman continue to monitor the Granddaddy Boil location.
- Ardaman will provide a drawings for 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.
- See Minutes of Meeting 146 and prior for discussion related to removal and placement of gypsum generated in conjunction with planned closure of the NGS-N west and north crest roads.
- Regarding erosion repairs on the Phase II slopes, it was noted during the site tour on 12/13/07 that there are a few small isolated areas on the upper slope that may need more work.
- It was noted at the 7/5/07 meeting that the 24" NGS-N outlet pipe along the NGS-N west road was gouged at several locations; CDM will be advised whether or not repairs are necessary.
- Regarding liner installation for closure of the NGS-N south crest road, acceptable methods for lining around the existing (and in-service) spray system tie-down bollards was discussed at the 8/23/07 meeting. Additionally, a plan will need to be formulated regarding logistics for handling the SE-1 spray evaporation system header.
- Ardaman will provide design figures for grading, woven geotextile installation, soil capping and grassing to grade out the NGS-S south slope access ramp to reduce erosion-related maintenance needs.
- It was agreed that the width of the SCP south perimeter road should be field adjusted at some locations in order not to encroach on the Buckeye Road drainage ditch.
- It was noted at the 2/27/08 meeting that significant erosion of soil cover materials from beneath the sod on the inboard slope of the Phase II NGS-N north stormwater has occurred, most severely in the portion of the ditch west of station 109+00. Large erosion gullies and voids were found to exist beneath the sod and substantial soil sediment deposits were observed in the invert of the stormwater collection ditch. CDM/Compass were requested to evaluate the situation and develop a course of corrective action.
- CDM requested pump and motor specifications at the 3/6/08 meeting, for pumps to be installed in the 48-inch manhole sumps located at both ends of SCP seepage collection system.

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- CDM is monitoring the water level in Basin 1 (the outlet from which has been temporarily blocked) and can operate a portable pump as needed to convey water to the process system.

Acceptances

- None since last report.

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. CDM submitted a proposal to FDEP by email on 10/18/07. Last discussion with FDEP was by conference call on 11/6/07.
- A proposal for slurry wall and related work for the Buckeye Road Groundwater Collection System (drawings dated 8/8/07, revision P1) was sent to FDEP on 11/6/07. CDM received an updated proposal from Inquip on 12/19/07 and forwarded to FDEP. In response to FDEP's inquiry at the 1/17/08 meeting, CDM indicated that they are not looking at any options to the currently proposed drain system for collection of impacted groundwater along Buckeye Road.
- Regarding the ongoing dispute resolution, a meeting was held between CDM and the Department on 2/22/08, that was subsequently continued on 3/3/08, 3/17/08, 4/1/08 and 4/14/08 to discuss the items outlined above, as well as items outlined by CDM in a letter dated 2/14/08. CDM indicated that CO #21 signatures are in progress regarding the slurry cutoff wall; also that a Dispute Resolution Agreement is being reviewed that include the crest roads, the First 50 percent - Plant Watershed Area, and modifications to the OGS Reservoir.
- Additional items still in dispute will be discussed in a meeting with the Department on 5/6/08.

10.0 COMMENTS by FDEP

- FDEP was not present at the meeting.

11.0 COMMENTS by HRK

- Some cover material in the NCP is presently stockpiled and will be graded when dry.