



# Board of County Commissioners

## DEPARTMENT OF PUBLIC WORKS SOLID WASTE MANAGEMENT DIVISION

P.O. Box 340  
Lecanto, FL 34460  
Telephone: (352) 527-7670 Fax: (352) 527-7672  
Citrus Springs/Dunnellon area - Toll Free (352) 489-2120

Dept. Of Environmental Protection

**JAN 26 2011**

January 21, 2011

Southwest District

Melissa Madden, Environmental Specialist  
Solid Waste Section  
Florida Department of Environmental Protection  
13051 N. Telecom Parkway  
Temple Terrace, FL 33637-0926

Re: Citrus County Central Landfill  
Permit No. 21375-008-SO/01  
Follow up to Site Inspection of September 23, 2010

Dear Ms. Madden:

This letter shall serve as a follow up to the site inspection referenced above documenting the repair of the erosion noted on the inspection form on the closed 7-acre landfill on the North Slope, East conveyance swale draining into DRA #2. It should be noted that the erosion occurred on the North Slope did not expose the recently installed liner

Our consulting engineer, SCS and our construction contractor Belair agreed to a plan to install barriers in the swales along the north slope of the recently re-closed 7-acre landfill. While significant erosion occurred on the eastern most conveyance, it was decided that following repair of the erosion, all 5 of the swales would have the additional erosion protection installed as a preventative measure. Attached are two illustrations that outline the completed repairs. The first is a site plan that shows where concrete bags were placed in order to slow the flow of water as it enters the steepest part of the chute. The fix consisted of adding a row of concrete bags 33 feet from the top of slope and 6 rows of concrete bags entering the slope at varying elevations to slow the water's momentum. Existing erosion control matting was preserved as possible, or cut out and reused on the slope just below the concrete bags. The second illustration shows a detail of the bags that will be placed once the areas have been filled and re-graded as needed.

On November 30, 2010, Belair Construction completed the repairs as outlined. The photos that follow document those repairs.



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Citrus County chose to delay submitting this report until we experienced several rainfall events in order to test the efficacy of our repairs. Since the repairs have been completed, we have recorded the following rainfalls in excess of 0.5" and to date; it appears that the repairs are functioning as intended:

Dec 25, 2010	0.60"
Dec 26, 2010	0.53"
Jan 10, 2011	0.60"
Jan 16, 2011	0.82"
Jan 21, 2011	1.28"

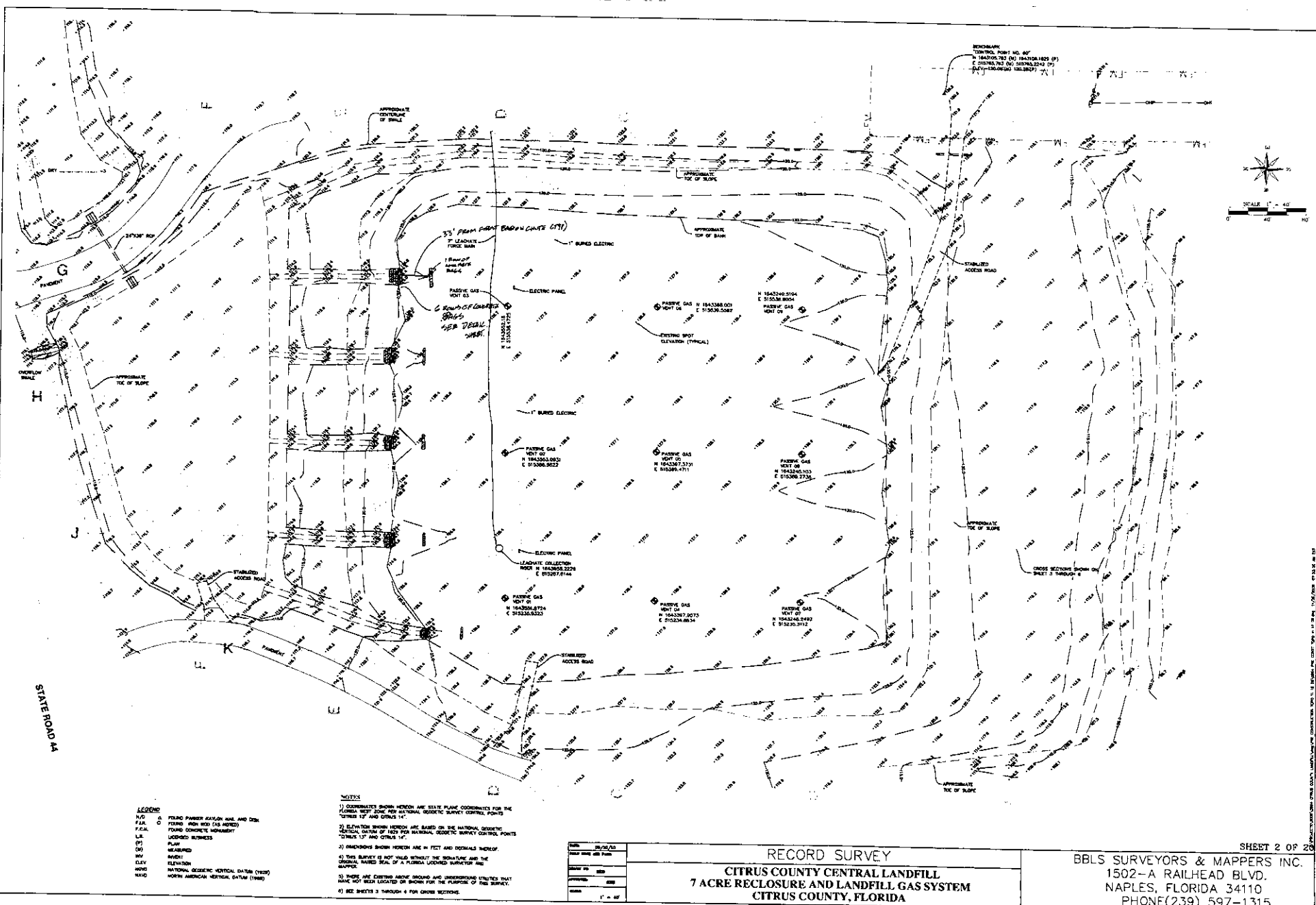
We will continue to monitor these conveyances as part of our normal inspections and if further erosion is observed, it will be promptly addressed. If you have any questions, please do not hesitate to contact me.

Sincerely

T. Casey Stephens  
Director

CC: Ken Frink, P.E., Director, Public Works Department w/enclosure  
Dan Cooper, P.E., SCS Engineers, Inc.  
Cathy Winter, Contract Compliance, Solid Waste Division





- LEGEND**
- FIND PASSIVE GAS VENT AND DOW
  - FIND HIGH WIND (AS NOTED)
  - FIND CONCRETE MONUMENT
  - LOCATED BUSINESS
  - PLAN
  - REMARKS
  - REMARKS
  - ELEVATION
  - NATIONAL GEODETIC DATUM (1983)
  - NORTH AMERICAN DATUM (1983)

**NOTES**

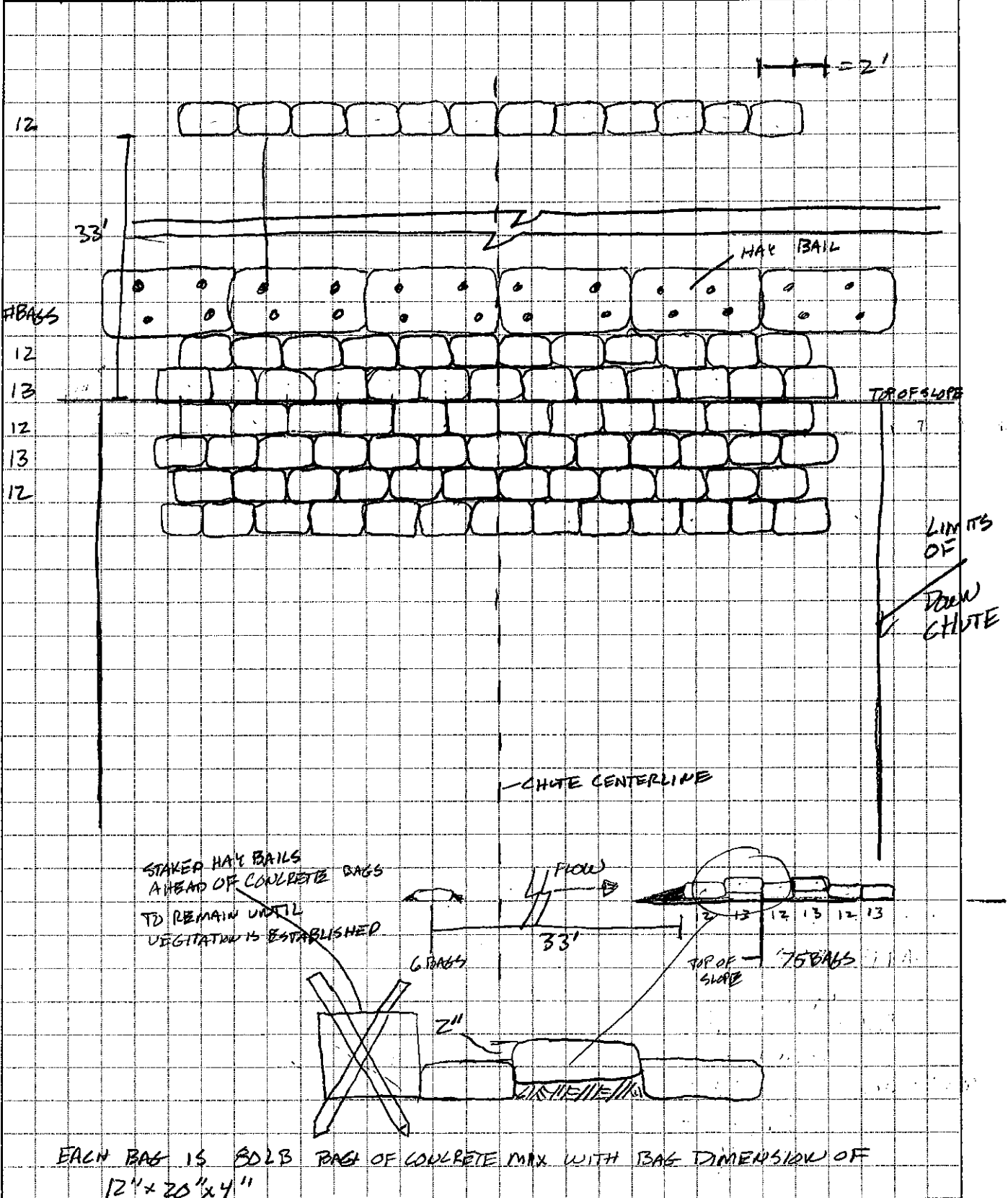
- 1) COORDINATES SHOWN HEREON ARE STATE PLANE COORDINATES FOR THE FLORIDA STATE PLANE, ZONE 16N, DATUM 1983, AND DATUM 1983.
- 2) ELEVATIONS SHOWN HEREON ARE BASED ON THE NATIONAL GEODETIC DATUM OF 1983 FOR NATIONAL GEODETIC SURVEY CONTROL POINTS, ZONES 17N AND ZONE 16N.
- 3) DIMENSIONS SHOWN HEREON ARE IN FEET AND DECIMALS THEREOF.
- 4) THIS SURVEY IS NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL SIGNED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPING ENGINEER.
- 5) THERE ARE CERTAIN ABOVE GROUND AND UNDERGROUND UTILITIES THAT HAVE NOT BEEN LOCATED OR SHOWN FOR THE PURPOSES OF THIS SURVEY.
- 6) SEE SHEETS 3 THROUGH 4 FOR CROSS SECTIONS.

DATE	12/15/2010
BY	JOHN J. BBL'S
CHECKED BY	JOHN J. BBL'S
DATE	12/15/2010
BY	JOHN J. BBL'S
CHECKED BY	JOHN J. BBL'S
DATE	12/15/2010

**RECORD SURVEY**  
**CITRUS COUNTY CENTRAL LANDFILL**  
**7 ACRE RECLOSURE AND LANDFILL GAS SYSTEM**  
**CITRUS COUNTY, FLORIDA**

**BBL'S SURVEYORS & MAPPERS INC.**  
 1502-A RAILHEAD BLVD.  
 NAPLES, FLORIDA 34110  
 PHONE (239) 597-1315

SHEET 1 OF 2



# SCS ENGINEERS

SHEET 2 OF 2

CLIENT <u>CITRUS COUNTY</u>	PROJECT <u>7-ACRE RECLASURE</u>	JOB NO. <u>09207049.04</u>
SUBJECT <u>ADDITIONAL EROSION CONTROL PLAN FOR</u>	BY <u>DRL</u>	DATE <u>10-26-10</u>
<u>DOWNCHUTES ON NORTH SIDE OF 7-ACRE CELL</u>	CHECKED	DATE

DETERMINE QUANTITIES AND COST OF MATERIALS FOR EACH CHUTE REPAIR.

QUANTITY OF BAGS FOR EACH CHUTE

$$12 + (12 \times 3) \times (13 \times 2) = 74 \text{ BAGS PER CHUTE}$$

+ 6 HAY BAILS + STAKES.

MATERIALS COST.

FROM LOWES IN INVERNESS

2016 BAG = \$3.85 COMES 42/PALLET WITH \$12 REFUNDABLE PALLET CHARGE.

$$5 \text{ CHUTES} \cdot \frac{74 \text{ BAGS}}{\text{CHUTE}} = 370 \text{ BAGS WILL NEED 9 PALLETS}$$

$$\text{COST } 370 \text{ BAGS } \$3.70 = \$1369.00$$

ASK FOR FRAM EXT 8

$$+ \text{PALLET CHARGE (12)} = 1108.00$$

$$\$1477.00 + \text{DELIVERY } \$30 =$$

$$\$1507 \text{ Delivered}$$

HAY BAILS - SQUARE → WORKING ON PRICING.