

Nassau County Engineer

2290 SOUTH 8th STREET

FERNANDINA BEACH, FLORIDA 32034-3056

JIM MacLAUGHLIN, P.E.
County Engineer

~~JOYCE~~
JOYCE
Agreement

February 3, 1988

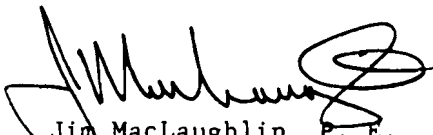
Mr. Michael S. Mullin, County Attorney
P. O. Drawer 1563
Fernandina Beach, FL 32034

RE: PROPOSAL, BHR: LANDFILL CLOSURES

Dear Mike:

Please note the attached proposal for BHR which we negotiated February 2, 1988. As you can see, the agreed upon price is \$99,340 for Bryceville and Lofton Creek Landfills. As was discussed, this does not include the provisions for resolution of any subsurface water quality problems which is a large unknown. I recommend the Board accept this proposal as negotiated.

Sincerely,


Jim MacLaughlin, P. E.
Nassau County Engineer

45C 115-141-534-34-¹⁰¹ actual contract
~~45-111-534-49-52~~

JM/jk

Gary L. Sneddon, P.E.
ASSOCIATE VICE PRESIDENT

Bessent, Hamm

CONSULTING

1900 CORPORATE SQUARE BOULEVARD

1900 CORPORATE SQUARE BOULEVARD
JACKSONVILLE, FL 32216 • (904) 721-2900

February 2, 1988

Mr. Jim MacLaughlin, P.E.
Nassau County Engineer
2290 South 8th Street
Fernandina Beach, Florida 32034

Re: Proposal for Closure Plan and
Permit Application for Lofton
Creek and Bryceville Landfills
BHR #25123.10

Dear Mr. MacLaughlin:

In response to our negotiations with you and County Attorney, Mike Mullin, February 2, 1988, we are attaching herewith our revised scope and fee agreement for referenced work.

As discussed at our meeting on the DER Consent Order, the timing required by DER to complete the Closure Plans for the two landfills is short and requires immediate initiation of the Closure Plan to keep the County in compliance with the terms of the proposed Order. As the timing now stands, we must convince DER to extend the time on Lofton Creek by an additional 60-days to achieve this schedule. The Bryceville schedule also needs a 60-day adjustment to allow the County to have groundwater monitoring plan prior to initiating Closure Design.

Our proposal considers the need to apply for permits from DER, SJRWMD and a Joint Agency Permit for Dredge and Fill at Lofton Creek.

The estimated cost of the application processing fees is \$650. Although the Dredge and Fill Permit and the SJRWMD Permits are not specifically called out, the approval of these permits are essential to receive final DER approval of the Closure Design Plan.

We appreciate the opportunity to continue efforts to resolve the County's Landfill and Solid Waste Disposal initiative.

Very truly yours,

BESSENT, HAMMACK & RUCKMAN, INC.


Gary L. Sneddon, P.E.

GLS/mg

SCOPE OF SERVICES

CLOSURE PLAN

LOFTON CREEK AND BRYCEVILLE LANDFILLS

- I The scope outlined herein follows the DER requirements of item 13 of the Lofton Creek and item 14 of the Bryceville Landfills, December 18, 1987 Draft Consent Orders.
1. BHR will incorporate the General Landfill information into the Closure Plan report. General Landfill information consists of nine items listed under Chapter 17-7.073(1)(a)-(i).
 2. BHR will incorporate 17-7.073(2) "Area Information" into the Closure Plan report. Area information will consist of the following:
 - a. Landfill topography
 - b. Landfill hydrology features
 - c. Landfill geology
 - d. Landfill hydrogeology features
 - e. Ground and Surface water quality in and around the landfill
 - f. Land use information of zoning present land use and adjacent land owners
 3. BHR will incorporate the completed groundwater monitoring plan and sample analysis into the Closure Plan report as described in 17-7.073(3).
 4. BHR will perform a gas migration investigation as outlined in 17-7.073(4) and report the results as a part of the Closure Plan report.
 5. BHR will assess the effectiveness of the existing landfill design and operation in accordance with 17-7.073(5). The assessment shall include the effectiveness and results of the groundwater testing, effect of surface water runoff and surface water testing, extent and amount of methane gas and any potential hazards methane gas may present, condition of existing cover method of cover, nature and characteristics of the wastes disposed of at the landfill.
 6. BHR will provide a Closure Design Plan in accordance with 17-7.073(6). The Design Plan will consist of an engineering report, design plans and specifications and closure permit application. The design plan will consist of the following:

- a. Drawings showing phasing of site closing.
 - b. Drawings showing existing topography and proposed final grades.
 - c. Drawings and specifications showing final cover installation, thickness and type of materials and vegetation species to be planted. Side slopes and erosion control installation drawings and specifications will also be provided.
 - d. Drawings and specifications reflecting the gas and odor control design.
 - e. Drawings and specifications on the stormwater collection, treatment and disposal system, including underdrain design (SJRWMD 40C42), detention pond design (SJRWMD 40C4) stormwater and structure design, and ditch and swale design.
 - f. Drawings and specifications on access location and means of preventing unauthorized access to the site.
 - g. Drawings and specifications on the proposed final use of the landfill site.
 - h. Engineering design calculations, discussion and permit applications related to the following:
 1. Water balance calculations
 2. Drainage collection and treatment calculations
 3. Provision for and calculations of available cover material for long term care
 4. SJRWMD Permit Application
 5. DER/Corp of Engineers/DNR Dredge and Fill Permit Application, anticipated for on-site Lofton Creek Landfill only.
 6. DER Closure Permit Application
 7. Cost estimate based on the Closure Design Plan.
7. BHR will provide and incorporate into the Closure Plan Report, a Closure Operation Plan in accordance with 17-7.073(7). The Operation Plan will include the following:
- a. A detailed description of the construction actions and phasing to be taken to close the landfill.
 - b. A time schedule for completion of the closing and long term care.
 - c. References to the Closure Design Plan and Closure Plan Report.
 - d. Methodology of determining long term financial responsibility.
 - e. List and describe any specialty equipment or personnel required to close the landfill.
8. BHR will attend one meeting each with DER and SJRWMD for coordination of permitting applications. The engineer shall attend one meeting for the purpose of making application for a Dredge and Fill Permit at Lofton Creek.

9. BHR will attend two meetings with the County Commission or the County's representative to present results of the various scope items for concurrence by the County.
10. BHR will provide three (3) copies of the Draft Closure Plan and Closure Design Plan and a maximum of seventeen (17) copies of the Final Closure Plan and Closure Design Plan.

II Items not included in the Scope of Services.

1. Permit application fees are not included in the scope of services.
2. Legal Boundary Survey of each site.

III Compensation for the Scope of Services

The lump sum compensation for the previously described scope of services includes geotechnical and topographic services, one response each to SJRWMD, DER and joint agency requests for additional information.

COMPENSATION

TASKS 1-10 LOFTON CREEK LANDFILL

\$ 59,615.00

TASKS 1-10 BRYCEVILLE LANDFILL

\$ 39,725.00

TOTAL COMPENSATION BOTH LANDFILLS

\$ 99,340.00

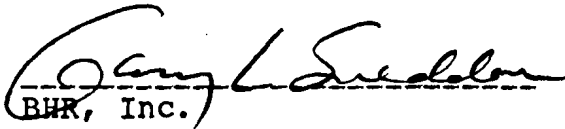
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IV Schedule for Scope of Services

BHR will complete tasks 1-7 within 170 calendar days of authorization. Tasks 8 and 9 will be on an "as requested" basis.

V Basic Services

Basic Services are defined herein as completion of Tasks 1 through 7. In the event it is desirable for the County to expand the scope to include other services, additional compensation will be based upon an agreed upon lump sum amount or where an unidentifiable scope exists, compensation may be based upon a cost reimbursable factor with expenditure limitation. The Engineer will not perform services outside the scope identified herein without the County's approval.


BHR, Inc.

2-2-88
Date


Nassau County

2/26/88
Date