



State of Louisiana
Department of Environmental Quality

70-3070
PDR
L.P.M.
Louisiana Department of
Environmental Quality

Edwin W. Edwards
Governor

November 19, 1992

Kai David Midboe
Secretary

Mr. P.G. LeRoy, Licensing Manager
Louisiana Energy Services, L.P.
Post Office Box 1004
Charlotte, North Carolina 28201

Gentlemen:

As a part of the processing of the State Permit for the Claiborne Enrichment Center near Homer, Louisiana, we have been in contact with Phil Hammond of Duke Engineering concerning certain details of the receiving water, Bluegill Pond. In conversation with Mr. Hammond on October 18, 1992, we requested the following information and he asked us to put this request in letter form to you.

1. As a part of the evaluation of the Pond as a receiving stream, we need information on the physical configuration of the Pond. A scale drawing of the Pond, showing depths or contours, would be suitable for our calculations. Volumetric calculations would also be very helpful. Please mark the position of the outfall on the drawing.
2. We understand that Duke Engineering is taking quarterly field water quality readings of conductance, pH, temperature, dissolved oxygen, and alkalinity on Lake Avalyn. We request a copy of that data, both past and future (through June 1993), to be used as an aid in assessing the characteristics of the receiving water.
3. Our permit consideration, include computations involving hardness and TSS characteristics. There are no hardness or TSS data available for the receiving water or for nearby and similar waters. We therefore request that samples for hardness and TSS be taken at Bluegill Pond (vicinity of the outfall) on a twice a month basis, beginning as soon as possible, and that the results of the analysis of those samples be provided to DEQ. Max Forbes, of our Engineering Section, discussed with Mr. Hammond the taking of quarterly samples; we now feel that a hardness and TSS data base of sufficient size (about 10 determinations of each) to permit 15 percentiles of these characteristics must be developed as soon as possible, and that more frequent sampling is therefore called for.
4. Discussion with the permit writer assigned reveals a concern on your part that concentrations of sulfate in the groundwater supply could cause concentrations of that element in your effluent to be above the permissible level. To properly

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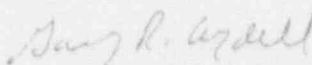
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document the natural sulfate condition, we request that available data on sulfate in the groundwater supply be provided to the Ground Water Protection Division of DEQ; the address is : La. Dept. of Environmental Quality, GWPD, P.O. Box 82215, Baton Rouge, La. 70884-2215. If sufficient data to provide a reasonable picture of sulfate concentrations are not available, we would suggest a sampling program to establish a data base; that data should also be provided to DEQ. In paragraph 3 above, we requested that data on hardness and TSS be gathered for Bluegill Pond. Since sulfate may also be a concern in the receiving water, we request that sampling for sulfate in Bluegill Pond be done with the sampling for hardness and TSS; this will provide a background for further considerations.

5. Representatives of DEQ are likely to be in the Homer area before December; we request your permission to visit Bluegill Pond and Lake Avalyn to take one set of sulfate, hardness, and TSS samples. If permission is granted, please furnish contact information for a local (Homer area) representative of L.E.S.-L.P..

We appreciate your cooperation in responding to these requests; this information will expedite the processing of the permit. If you have questions on any of the requests, please contact Cheryl LeJeune at 504-765-0525.

Sincerely,



Gary Aydell, Acting Administrator
Water Pollution Control Division

GRA:MF:dps

c: Louis Johnson, Administrator, GWPD
Program Manager, Industrial Permits Section
Program Manager, Planning and Assessment Section
Karen Bond, EPA (hold for quarterly report)
Jack Ferguson, EPA
DEQ Regional Office, Northwest
DEQ files for Permit Numbers LA0092196, WP4154
Manager, Engineering Section
Faith Leroy, (C-220000-27, WE-5, 24400-92-130)
Cheryl LeJeune, Permits Section