ESTABLISHED 1873

KRAUSE & MANAGAN LUMBER CO.
LIMITED

CONSTRUCTION/DEMOLITION DEBRIS LANDFILL MODIFICATION

April 24, 2008
SULPHUR, LOUISIANA

PUBLIC NOTICE
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY (LDEQ)
KRAUSE AND MANAGAN LUMBER CO. / KRAUSE AND MANAGAN LANDFILL
TYPE III CONSTRUCTION AND DEMOLITION DEBRIS WOODWASTE LANDFILL
TECHNICALLY COMPLETE SOLID WASTE PERMIT MAJOR MODIFICATION

The LDEQ, Office of Environmental Services, has determined that a major modification for Krause and Managan Lumber Company, P.O. Box 163, Sulphur, LA 70663 for the Krause and Managan Landfill is technically complete and acceptable for public review. **The facility is located at 1895 N. Beglis Parkway, Sulphur, Calcasieu Parish.**

Krause and Managan Lumber Company, currently operates a 3 cell Type III Construction and Demolition Debris and Woodwaste Landfill; is proposing to add an additional 4th cell due the growing need of construction/demolition-debris and woodwaste landfill storage in the Calcasieu Parish..

Written comments, written requests for a public hearing or written requests for notification of the final decision regarding this permit action may be submitted to Ms. Soumaya Ghosn at LDEQ, Public Participation Group, P.O. Box 4313, Baton Rouge, LA 70821-4313. **Written comments and/or written requests must be received by 12:30 p.m., Wednesday, June 11, 2008.** Written comments will be considered prior to a final permit decision.

If LDEQ finds a significant degree of public interest, a public hearing will be held. LDEQ will send notification of the final permit decision to the applicant and to each person who has submitted written comments or a written request for notification of the final decision.

The technically complete solid waste permit application major modification is available for review at the LDEQ Public Records Center, Room 127, 602 North 5th Street, Baton Rouge, LA. Viewing hours are from 8:00 a.m. to 4:30 p.m., Monday through Friday (except holidays). **The available information can also be accessed electronically on the Electronic Document Management System (EDMS) on the DEQ public website at www.deq.louisiana.gov.**

Additional copies may be reviewed at Calcasieu Parish Library, Sulphur Branch, 1160 Cypress Street, Sulphur, LA, City of Sulphur Mayor's Office, 500 N. Huntington Street, Sulphur, LA and LDEQ Southwest Regional Office, 1301 Gadwell Street, Lake Charles, LA.

Inquiries or requests for additional information regarding this permit action should be directed to Enjoli' Muse, LDEQ, Waste Permits Division, P.O. Box 4313, Baton Rouge, LA 70821-4313, phone (225) 219-0968.

Persons wishing to be included on the LDEQ permit public notice mailing list or for other public participation related questions should contact the Public Participation Group in writing at LDEQ, P.O. Box 4313, Baton Rouge, LA 70821-4313, by email at deqmaillistrequest@la.gov or contact the LDEQ Customer Service Center at (225) 219-LDEQ (219-5337).

Permit public notices including electronic access to general information from the technically complete solid waste permit application can be viewed at the LDEQ permits public notice webpage at www.deq.louisiana.gov/apps/pubNotice/default.asp and general information related to the public participation in permitting activities can be viewed at www.deq.louisiana.gov/portal/tabid/2198/Default.aspx.

Alternatively, individuals may elect to receive the permit public notices via email by subscribing to the LDEQ permits public notice List Server at www.doa.louisiana.gov/oes/listservpage/ldeq_pn_listserv.htm

All correspondence should specify AI Number 67860, Permit Number P-0336, and Activity Number PER20010004.

Publication date: May 7, 2008

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04/30/07

BOBBY JINDAL
GOVERNOR

HAROLD LEGGETT, PH.D.
SECRETARY

State of Louisiana

DEPARTMENT OF ENVIRONMENTAL QUALITY
ENVIRONMENTAL SERVICES

APR 29 2008

CERTIFIED MAIL 7003 2260 0005 9323 7937

Mr. Reed Hays
Krause and Managan Lumber Co.
P.O. Box 163
Sulphur, LA 70663

RE: Notice of Technical Completeness
Krause and Managan Landfill
Major Permit Modification (Cell Addition)
D-019-8937/ P-0336/ AI-67860
PER20010001
Calcasieu Parish

Dear Mr. Hays:

The Permits Division is in receipt of the finalized copies of your permit modification request dated April 24, 2008. After review of these documents, we have determined that your application is technically complete and ready for public review.

The Environmental Assistance Division will distribute copies of your modification request for public review and place public notices in the appropriate newspapers in accordance with LAC 33:VII.513.F.3. Please contact Ms. Soumaya Ghosn at (225) 219-3276 for the date of publication of the public notice and the dates for the commenting period. At the conclusion of the commenting period, the Waste Permits Division will consider all comments and render a permit decision regarding your modification request.

Please reference your Site Identification Number (D-019-8937), Agency Interest Number (AI-67860), Permit Number (P-0336), and Permit Activity Number (PER20010001) on all future correspondence pertaining to this facility. If you have any questions concerning this matter, please contact Ms. Enjoli' Muse of the Waste Permits Division at (225) 219-0968.

Sincerely,

Bijan Sharafkhani, P.E.
Administrator

em

c: Southwest Regional Office

ESTABLISHED 1873

KRAUSE & MANAGAN LUMBER CO.
LIMITED

RECEIVED

APR 2 4 2008

WASTE PERMITS DIVISION
SOLID & HAZARDOUS WASTE SECTION

April 24, 2008

Department of Environmental Quality
Permits Division
P.O. Box 4313
Baton Rouge, LA 70821

Re: Krause & Managan Landfill
AI# 67860
Calcasieu Parish
Type III Construction/Demolition Debris Landfill Modification

Dear Mr. Sharafkhani:

Please find enclosed the updated final copy of our permit modification for the Type III Landfill. Krause and Managan currently has a 3 cell Type III Construction/Demolition Debris Landfill in operation. Due to the growing need of construction/demolition-debris and wood waste landfill storage in the Calcasieu Parish, Krause and Managan would like to expand the current facility with a 4th cell.

Attached is the final copy of the permit modification for the Type III Construction/Demolition Debris facility for Krause & Managan Lumber Company in Calcasieu Parish. As required by regulation for a modification, six bound copies of the application are being submitted.

If you have any questions regarding this information presented, please let me know. You can contact me at the (337) 527-8671.

Sincerely,

Hellmyn Z. Moravek

Krause and Managan Lumber Company
Type III Construction/Demolition-Debris and Woodwaste Landfill
Modification Request

The Permit Modification addresses Title 33:VII.517A.

MODIFICATION REQUEST

Krause and Managan Lumber Company request a permit modification for the Type III Landfill. Krause and Managan currently have a 3 cell Type III Landfill in operation. Due to the growing need of construction/demolition-debris and woodwaste landfill storage in the Calcasieu Parish, Krause and Managan would like to expand the current facility. Without a local, long term disposal solution, generators of construction/demolition debris, wood waste and yard waste would have to collect and transport the waste to another acceptable facility. The alternative for disposal of the wastes handled by this facility would be a municipal waste or sanitary landfill. This would reduce the available volume of the municipal landfill for other types of waste and also reduce its effective lifetime. Increased disposal fees to be borne by the consumer could result in promiscuous dumping of wastes.

The current disposal area for the landfill is 13.2 acres. Krause and Managan would like to convert an existing dirt pit into an additional cell (Cell 4), which would increase the disposal area by 7.4 acres. The new total disposal acreage will be 17.6 acres. The types, quantities, and sources of waste will not change from the original permit. All weather roadways are currently in place around the existing cell to accommodate heavy equipment. The new cell does not affect major drainage systems and drainage-flow patterns in the vicinity of the facility.

A Flood Insurance Rate Map (FIRM) for Calcasieu Parish indicates that the new cell (Cell 4) is located in flood zone D, which is not in an area of 100-year flood plain. Zone D does not have any assigned base flood elevation. Cell 4 is situated approximately 13 feet above mean sea level. The FIRM (Panel 225, Community-Panel Number 220037 0225 C, revised February 2, 1996) indicates the flood zones and site location and is included as Figure 4.

Surface areas of the facility contain natural stable soils of low permeability in order to provide a barrier to prevent penetration of any surface spills into subsurface aquifer units. Visual classification of soil from the walls of an existing excavated area of Cell 4 is approximately 30 feet. In addition, a hand auger boring was taken from the bottom of the borrow pit to a depth of 5 feet. Logs of the visual classifications and borehole log performed in the field are included as Appendix A.

The plan outlining the current facility operations and emergency procedures will be continued for the addition of Cell 4.

Based on the current volumes of waste received and assuming landfill cells are filled to ground level, the active life of the facility and final closure is expected to be in an

estimated 8 years, 3 months. The new cell (Cell 4) will extend the life of the facility by 7 years, 4 months. The new active life of the facility will be 15 years, 7 months. The calculations for this estimation are as follows:

Known Quantities:

Monthly fill volume = 3850 yds^3
Monthly cover volume = 193 yds^3
Total monthly volume = **4043 yds^3**

Calculations (Cell 4):
Open Landfill Cell Capacity =
7.4 acres x 43,560 ft^2 per acre = 322,344 ft^2 ≈322,000 ft^2
322,000 ft^2 x 30 feet depth = 9,600,000 ft^3
9,600,000 ft^3 / 27 ft^3 per yd^3 = 355,555 yd^3 ≈**356,000 yd^3**
Above Grade Capacity: 0 (The cell will be closed to ground level)

356,000 yds^3 Cell 4 capacity/ 4043 yd^3 per month = **7 years, 4 months**

Modified combined facility lifetime (Cell 1,2,3, and 4)
=15 years, 7 months

Post Closure Costs

Cell 4 will not increase the post closure costs for the Krause & Managan Type III Landfill. The cost for post closure includes cost for inspection, mowing and the filling of subsidence or washout areas. Post closure activities will be performed to preserve the integrity of the cap for no less that three years after approval of the final closure by the administrative authority. The current estimated cost to utilize a third party to administer these activities is expected to remain approximately $56,640,

APPENDIX B

SOLID WASTE STANDARD PERMIT APPLICATION - PART I

(The form shall be completed in accordance with the instructions found in LAC 33:VII.513.A.1)

A. Applicant (Permit Holder) Krause and Managan Lumber Company
B. Facility Name: Krause and Managan Disposal
Facility Location/Description: 1.5 miles north of La Highway 90 on La Highway 27
D. Location: Section 23 Township 9 N Range 10 S

Parish: Calcasieu

Coordinates: Latitude - Degrees 30 Minutes 15 Seconds 51

Longitude - Degrees 93 Minutes 21 Seconds 39

E. Mailing Address: POB 163 Sulphur, LA 70663
F. Contact: William R. Hays Jr.
G. Telephone: 337-527-8671
H. Type and Purpose of Operation: (Check each applicable line)

Type I
- Industrial Landfill _____
- Industrial Surface Impoundment _____
- Industrial Landfarm _____

Type I-A
- Industrial Incinerator Waste Handling Facility _____
- Industrial Shredder/Compactor/Baler _____
- Industrial Transfer Station _____

Type II
- Sanitary Landfill _____
- Residential/Commercial Surface Impoundment _____
- Residential/Commercial Landfarm _____

Type II-A
- Residential/Commercial Incinerator Waste Handling Facility _____
- Residential/Commercial Shredder/Compactor/Baler _____
- Residential/Commercial Transfer Station _____
- Residential/Commercial Refuse-Derived Fuel _____

Type III

Construction/Demolition-Debris Landfill _X_
Wood waste Landfill __X__
Compost Facility _____
Resource Recovery/Recycling Facility _____

Other

Describe _____

_____

I. Site Status: Owned __X__ Leased ___ Lease Term ___ Years
(Note: If leased, provide copy of lease agreement)

J. Operation Status: __X__ Existing _____Proposed

RULE/FEBRUARY 20, 1993

K. Total Acreage _31.5_ Processing Acreage ____ Disposal Acreage _20.6____

L. Environmental Permits: (List)

Louisiana Water Discharge Permit applied with State Department of Enviromental Quality

Corps of Engineers Wetland Delineation

National Pollution Discharge-Elimination System Permit applied for with the U.S. EPA

M. Conformity with regional plans. Attach letter from the Louisiana Resource Recovery and Development Authority (LRRDA) stating that the facility is an acceptable part of the state-wide program.

(Note: In accordance with R.S. 30:2307.B, LRRDA authority does not apply to solid waste disposal activity occurring entirely within the boundaries of a plant, industry, or business which generates such solid waste.)

N. Zones: Yes __X__No _____ Zoning Requested

Zone Classification: Agriculture

(Note: If zoned, include zoning affidavit and/or other documentation stating that the proposed use does not violate existing land-use requirements.)

O. Types, Quantities, and Sources of Waste:

	Processing		Disposal	
	On-site	Off-site	On-site	Off-site
Residential	N/A	N/A	N/A	N/A
Industrial	N/A	N/A	N/A	N/A
Commercial	N/A	N/A	N/A	N/A
Construction/ Demolition Debris	N/A	N/A	N/A	0 to 800 wet tons/wk
Yard Waste	NA	N/A	N/A	0 to 500 wet tons/wk

P. Service Area:
List of Parishes: Calcasieu

Statewide Unlimited

Q. Proof of Operator's Public Notice - Attach proof of publication of the notice regarding the permit application submittal as required by LAC 33:VII.513.A.

33:VII.521.D
2.b. There are 4 known soil borings that have been performed at the original site. A copy of the geotechnical test results is included in Appendix D. The holes were Plugged and Abandoned using the guidelines set in Section 3.6.4.3 of the LDOTD Water well Rules, Regulations, and Standards.

33:VII.521.E FACILITY SUBSURFACE HYDROLOGY. Standards governing facility subsurface hydrology are contained in LAC 33:VII.715.A (Type I and II landfarms).

33:VII.521.E
1. The following information on subsurface hydrology is required for all Type I facilities and Type II landfills and surface impoundments:

33:VII.521.E
1.a. Delineation of the following information for the water table and all permeable zones from the ground surface to a depth of at least 30 feet below the base of excavation:

33:VII.521.E.
1.a.i. Aerial extent beneath the facility;

N/A, the subject site is not a Type I or II facility.

33.VII.521.E
1.a.ii. Thickness and depth of the permeable zones and fluctuations;

N/A, the subject site is not a Type I or II facility.

33.VII.521.E
1.a.iii. Direction(s) and rate(s) of groundwater flow based on information obtained from piezometers and shown on potentiometric maps; and

N/A, the subject site is not a Type I or II facility.

33:VII.521.E
1.a.iv. Any change in groundwater flow direction anticipated to result from any facility activities.

N/A, the subject site is not a Type I or II facility.

33:VII.521.E
1.b. Delineation of the following, from all available information, for all recognized aquifers which have their upper surfaces within 200 feet of ground surface:

33:VII.521.E
1.b.i Aerial extent;

The disposal areas have already been excavated. No other major features are planned.

33:VII.521.I
1.b. Details on phased implementation, if any, proposed facility is to be constructed in phases.

RESPONSE:

N/A, there are no major activities planned for implementation.

33:VII.521.I
2. The implementation plans for Type I and II facilities must include a plan for closing and upgrading existing operating areas if the application is for expansion of a facility or construction and replacement facility.

N/A, the subject site is not a Type I or II facility.

33:VII.521.J FACILITY CLOSURE. Standards governing facility closure are contained in LAC 33:VII.713.E (Type I and II landfills), LAC 33:VII.713.E (Type I and II surface impoundments), LAC 33:VII.713.E (Type I and II landfarms), LAC 33:VII.721.D (construction and demolition debris and wood waste landfills), LAC 33:VII.723.D (Type III composting facilities), and LAC 33:VII.725.D (Type III separation facilities)

33:VII.521.J
1. The closure plan for all facilities must include the following:

33:VII.521.J
1.a. The date of final closure;

RESPONSE:

The administrative authority will be notified in writing at least 90 days prior to closure or intent to close, seal or abandon the landfill or any individual units within the facility. As areas of the landfill reach the desired final grade, final cover will be placed over that area. Final closure will occur when the last area is brought to grade and final cover placed. Based on the current volumes of waste received and assuming landfill cells are filled to grade, the active life of the facility and final closure is expected to be in an estimated ~~8 years, 3 months~~ 15 years, 7 months. The planned date of closure for each individual cell will be included with the written notification. The calculations for this estimation are as follows:

33:VII.721.C
5.b. Training sessions concerning the procedure outlined in Subsection C.5.a of this Section shall be conducted annually for all employees working at the facility. A copy of the training program shall be filed with administrative authority.

RESPONSE:

Training sessions on these safety procedures will be conducted at least annually for all employees working at the facility. A copy of the training program as drawn up by the owner will be filed with the administrative authority.

33:VII.721.D FACILITY CLOSURE REQUIREMENTS

33:VII.721.D
1. Notification of Intent to Close a Facility. All permit holders shall notify the administrative authority in writing at least 90 days before closure or intent to close, seal, or abandon any individual units within a facility and shall provide the following information:

33:VII.721.D
1.a. Date of planned closure;

RESPONSE:

The administrative authority will be notified in writing at least 90 days prior to closure or intent to close, seal or abandon the landfill or any individual units within the facility. Once the landfill cell reaches grade, final cover will be placed and closure completed. Based on the current volumes of waste received and assuming landfill cells are filled to grade, the active life of the proposed expansion area and final closure is expected to be an estimated ~~7 years, 8 months~~ 15 years, 7 months. The planned date of closure for the landfill cells will be included with the written notification.

33:VII.721.D
1.b. Changes, if any, requested in the approved closure plan; and

RESPONSE:
There are no changes in the closure plan at the time of this application.

33:VII.721.D

33.VII.521.J

1.b. The method to be used and steps necessary for closing the facility; and

RESPONSE:

The following preclosure requirements will be performed prior to initiation of the final cap:

1. **Final cover will be applied within 30 days after final grades are achieved in each unit of the facility unless an extension of this time is approved by the administrative authority.**
2. **Standing water will be removed or solidified with fly ash of similar material,**
3. **The runoff diversion system will be maintained until final cap is**

33:VII.721.C
5.b. Training sessions concerning the procedure outlined in Subsection C.5.a of this Section shall be conducted annually for all employees working at the facility. A copy of the training program shall be filed with administrative authority.

RESPONSE:

Training sessions on these safety procedures will be conducted at least annually for all employees working at the facility. A copy of the training program as drawn up by the owner will be filed with the administrative authority.

33:VII.721.D FACILITY CLOSURE REQUIREMENTS

33:VII.721.D
1. Notification of Intent to Close a Facility. All permit holders shall notify the administrative authority in writing at least 90 days before closure or intent to close, seal, or abandon any individual units within a facility and shall provide the following information:

33:VII.721.D
1.a. Date of planned closure;

RESPONSE:

The administrative authority will be notified in writing at least 90 days prior to closure or intent to close, seal or abandon the landfill or any individual units within the facility. Once the landfill cell reaches grade, final cover will be placed and closure completed. Based on the current volumes of waste received and assuming landfill cells are filled to grade, the active life of the proposed expansion area and final closure is expected to be in an estimated 15 years, 7 months. The planned date of closure for the landfill cells will be included with the written notification.

33:VII.721.D
1.b. Changes, if any, requested in the approved closure plan; and

RESPONSE:

There are no changes in the closure plan at the time of this application.

33:VII.721.D

APENDIX D
ADDITIONAL PIT WALL INSPECTIONS AND BORING CELL 4

4 pit wall inspection and 1 boring from the bottom of cell 4 are included.

SPOONER & Associates, Inc.
P.O. Box 12685 Lake Charles, La 70612
(318)725-6352

Drill Hole Log

Project Number: 96-125-1	Project Name: Krause & Managan Landfill Modification

Boring No: South Pit Wall Cell 4		Page 1 of 1
Elevation:	Depth: 42 Date/Time: 4/07/2000	Date Started:
Geologist: Scott Spooner	Depth: Date/Time:	Date Completed:

Depth	Soil, Symbols Sampler, Symbols	Sample Type	OVM HNu Reading	Recov.	Description	USCS Synbol	TSF	Remarks
Ft 0-8		Pit wall			Stiff gray clay			No Groundwater encountered
8-18		"			Stiff red gray clay			
18-42		"			Stiff clay			

Notes:

SPOONER & Associates, Inc.
P.O. Box 12685 Lake Charles, La 70612
(318)725-6352

Drill Hole Log

Project Number: 96-125-1	Project Name: Krause & Managan Landfill Modification

Boring No: North Pit Wall 1 Cell 4		Page 1 of 1
Elevation:	Depth: 41 Date/Time: 4/07/2000	Date Started:
Geologist: Scott Spooner	Depth: Date/Time:	Date Completed:

Depth	Soil, Symbols Sampler, Symbols	Sample Type	OVM HNu Reading	Recov.	Description	USCS Synbol	TSF	Remarks
Ft 0-11		Pit wall			Stiff silty gray clay			No Groundwater encountered
11-19		"			Orange gray silty clay			
19-23		"			Stiff yellowish tan silty clay			
23-41		"			Very stiff tan clay			

Notes:

SPOONER & Associates, Inc.
P.O. Box 12685 Lake Charles, La 70612
(318)725-6352

Drill Hole Log

Project Number: 96-125-1	Project Name: Krause & Managan Landfill Modification

Boring No: North Pit Wall 2 Cell 4		Page 1 of 1
Elevation:	Depth: 42 Date/Time: 4/07/2000	Date Started:
Geologist: Scott Spooner	Depth: Date/Time:	Date Completed:

Depth	Soil, Symbols Sampler, Symbols	Sample Type	OVM HNu Reading	Recov.	Description	USCS Synbol	TSF	Remarks
Ft 0-5		Pit wall			Stiff gray clay			No Groundwater encountered
5-10		"			Stiff reddish brown silty clay			
10-19		"			Stiff yellowish tan silty clay			
19-42		"			Very stiff tan clay			

Notes:

SPOONER & Associates, Inc.
P.O. Box 12685 Lake Charles, La 70612
(318)725-6352

Drill Hole Log

Project Number: 96-125-1	Project Name: Krause & Managan Landfill Modification

Boring No: West Pit Wall Cell 4		Page 1 of 1
Elevation:	Depth: 40 Date/Time: 4/07/2000	Date Started:
Geologist: Scott Spooner	Depth: Date/Time:	Date Completed:

Depth	Soil, Symbols Sampler, Symbols	Sample Type	OVM HNu Reading	Recov.	Description	USCS Synbol	TSF	Remarks
Ft 0-2		Pit wall			Stiff silty gray clay			No Groundwater encountered
2-14		"			Stiff reddish brown clay			
14-19		"			Stiff yellow clay			
19-24		"			Very stiff red-gray clay			
24-34		"			Stiff silty gray clay			
34-40		"			Red-gray clay			

Notes:

SPOONER & Associates, Inc.
P.O. Box 12685 Lake Charles, La 70612
(318)725-6352

Drill Hole Log

Project Number: 96-125-1	Project Name: Krause & Managan Landfill Modification

Boring No: BH 1 Cell 4		Page 1 of 1
Elevation:	Depth: 43 Date/Time: 4/07/2000	Date Started:
Geologist: Scott Spooner	Depth: Date/Time:	Date Completed:

Depth	Soil, Symbols Sampler, Symbols	Sample Type	OVM HNu Reading	Recov.	Description	USCS Synbol	TSF	Remarks
Ft								
0-1		Auger Cutting			Stiff red clay			Groundwater encountered at 2.5 feet
1-4		"			Orange gray silty clay			
4-5		"			Soft very wet brown clay with orange and gray mottles			

Notes:

Attachment 1
Section 523 Response

523. PART III: ADDITIONAL SUPPLEMENTARY INFORMATION

The following supplementary information is required for all solid waste processing and disposal facilities. All responses and exhibits must be identified in the following sequence to facilitate the evaluation:

INTRODUCTION

Krause & Managan Lumber Company operates a Type III construction/demolition debris landfill located 1.0 mile north of Sulphur, LA on Louisiana Highway 27 since 1999. The Krause and Managan Type III Landfill has operated since with a clean compliance history. The current facility is located on approximately 45 acres at an elevation of approximately 13 feet MSL (Figure1). Historically, the site was used as borrow pits for structural material. After the sellable material was removed, the open pits were converted to Type III landfill cells. The purpose of this modification is to convert the latest borrow pit (Pit #4) into a type III cell under the current landfill permit Krause And Managan obtained.

Krause & Managan is a multi-million dollar corporation that manages thousands of acres of property. The Krause & Managan Landfill is important to the competitiveness of the company. The Type III Landfill allows Krause & Managan to maintain there large amounts of properties by disposing of debris at their own facility. Krause & Managan's Type III Landfill also provides preferred service to Sulphur and Lake Charles due to its easy access from LA Highway 27.

The current disposal area for the landfill is 13.2 acres. Krause and Managan would like to convert the existing dirt pit into an additional cell (Cell 4), which would increase the disposal area by 7.4 acres. The new total disposal acreage will be 20.6 acres. The types, quantities, and sources of waste will not change from the original permit. All weather roadways are currently in place around the existing cell to accommodate heavy equipment. The new cell does not affect major drainage systems and drainage flow patterns in the vicinity of the facility.

The Krause & Managan Landfill accepts only construction/demolition debris, wood waste, and yard waste material. Municipal and Hazardous Waste shall not be allowed whereby resulting in discharge and leachate from these materials. The main gate is located at the entrance road at the north end of the site. During operational hours, the facility entrance will be continuously monitored, manned, or locked. After business hours the gate is closed and locked to prevent unauthorized entry. Signs are posted at each entry point warning against unauthorized entry. Perimeter areas are wooded, preventing access to the site by vehicle and therefore preventing unauthorized disposal. Each load is visually inspected for prohibited waste prior to and during unloading. Any load noted to contain a prohibited waste will not be accepted by the facility.

The additional cell minimizes the environmental impact due to its location next to the existing facility. The site has the proper soil requirements, does not impact wetlands, and is not in a populated area.

Since this is a modification to an existing permit, alternate sites is not an issue.

33:VII.523.A A discussion demonstrating that the potential and real adverse environmental effects of the facility have been avoided to the maximum extent possible:

There are minimal potential adverse environmental effects concerning this disposal site. The Krause & Managan property located on LA Highway 27 is currently operated as a permitted Type III Landfill. With the Krause & Managan Landfill already established, the addition of the 4th cell should not significantly increase adverse environmental effects.

The Krause & Managan Type III facility located north of Sulphur has been in operation since 1999. There are no significant historical observations (LDEQ site inspections) on the nature of fugitive air emissions such as dust and odors and stormwater control. The historical LDEQ site inspections indicate there has not been an air emission or stormwater problem in the area. Based on this information, it can be predicted that there will not be a significant increase in any of the above mentioned environmental effects. A potential source of dust emission is truck traffic on aggregate roads such as the entrance road and temporary roads. To control dust, speed limits are observed and dust-creating activities are minimized. Dust emissions have been very minor in nature and are not considered to have a significant environmental impact. Due to the type of wastes received into the landfill, the production of methane gas or noxious odors is not likely. Krause & Managan Landfill is secluded from Highway 27 by a vegetation line along the road.

Land clearing and waste cell excavation is mandatory in the development of the proposed landfill. The environmental impacts from development of the proposed facility stems from surface disturbance of the property due to land clearing and development of the waste cells. However, erosion control measures are initiated prior to disturbance to control runoff and offsite erosion. Waste cell design help prevent accumulation of rainwater within each cell. Because a Type III facility only accepts yard (grass, limbs, leaves) and construction wastes (bricks, concrete, boards, metal) noxious odors are not anticipated.

Due to the non-chemical nature of the wastes handled (i.e. construction/demolition debris, woodwaste and yard waste), leaching of undesired substances into the soil or ground water is not considered a significant real or potential adverse affect at the facility. The geology of this site consists of predominantly of stiff clays that are not very permeable and with the installation of the final cover will minimize the need for further maintenance and prevent excessive infiltration of water into the landfill cells thus minimizing the potential for leaching. Municipal and Hazardous Waste shall not be allowed whereby resulting in discharge and leachate from these materials.

The main gate is located at the entrance road at the north end of the site. During operational hours, the facility entrance is continuously monitored, manned, or locked. After business hours the gate is closed and locked to prevent unauthorized entry. Signs are

posted at each entry point warning against unauthorized entry. Perimeter areas are wooded, preventing access to the site by vehicle and therefore preventing unauthorized disposal. Each load is visually inspected for prohibited waste prior to and during unloading. Any load noted to contain a prohibited waste will not be accepted by the facility.

A Flood Insurance Rate Map (FIRM) for Calcasieu Parish indicates that the new cell (Cell 4) is located in flood zone D, which is not in an area of 100-year flood plain. Zone D does not have any assigned base flood elevation. Cell 4 is situated approximately 13 feet above mean sea level. The FIRM (Panel 225, Community-Panel Number 220037 0225 C, revised February 2, 1996) indicates the flood zones and site location and is included as Figure 4.

Due to the non-chemical nature of the wastes handled (i.e. construction/demolition debris, woodwaste and yard waste), leaching of undesired substances into the soil or ground water is not considered a significant real or potential adverse affect at the facility, and therefore will not impact human health, animals, plants, or vegetation. Wetlands are located approximately 1000 feet beyond the boundaries of the disposal site. Because none of the facility operations will be operated outside these boundaries, wetlands will not be impacted. Correspondence from Calcasieu Parish and Louisiana Department of Transportation and Development emphases that no adverse impacts to traffic or roads. Correspondence with appropriate state agencies indicate there are no known historic sites, recreational areas, archaeological sites, wildlife management areas, or habitats or endangered species within 1000 feet of the facility perimeter is pending.

Based on the field investigations performed by environmental professionals (SPOONER & Associates, Inc.), there are minimal anticipated real adverse environmental impacts to the expansion of the current Type III Landfill. Because there are minimal adverse real environmental impacts anticipated from this project, no additional measures of protection are deemed necessary beyond the Type III permit requirements stated in the LDEQ Solid Waste Regulations.

33:VII.523.B A cost-benefit analysis demonstrating that the social and economic benefits of the facility outweigh the environmental-impact costs;

The Krause & Managan Type III Landfill was historically a dirt pit. Land clearing and waste cell excavation is mandatory in the development for a proposed landfill. The environmental impacts from development of a facility stems from surface disturbance of the property due to land clearing and development of the waste cells. The environmental impact of excavation was reduced by the conversion of the borrow pits to the Type III cells. Due to the enormous amounts of construction and development in the parish area, the site benefit residential, industrial and commercial entities by providing a convenient and efficient disposal location.

The current Krause & Managan landfill is directly tied to demolition work with every major contractor in the Sulphur and Lake Charles area. Currently Krause & Managan

has a disposal solution for the local areas but does not have a long-term disposal solution for construction/demolition debris generated in the area. Without a local, long term disposal solution, generators of construction/demolition debris, wood waste and yard waste would have to collect and transport the waste to another acceptable facility. This would lead to increased disposal fees due to and less competition for Type III disposal options. Increased disposal fees to be borne by the consumer could result in promiscuous dumping of wastes. The addition of the Cell 4 would give Krause & Managan a long term disposal solution.

Correspondence from Calcasieu Parish and Louisiana Department of Transpiration and Development emphasizes that no adverse impacts to traffic or roads. Due to the type of wastes received into the landfill, the production of methane gas or noxious odors is not likely. A potential source of dust emission is truck traffic on aggregate roads such as the entrance road and temporary roads. To control dust, speed limits are observed and dust-creating activities are minimized. Dust emissions have been very minor in nature and are not considered to have a significant environmental impact. This facility does not allow paper waste within the facility. Wastes not placed in the pit will be collected and placed in the pit.

This project will continue to employ a recordkeeper and heavy equipment operator. Since this facility is located in Calcasieu Parish and will exist as a for-profit concern both state and parish taxes will be collected. An operations and safety plan will continue to be implemented for this project and will be strictly enforced.

Due to nature of the waste and extent of the safeguards utilized to protect the environment, any environmental impact due to the permitting or operation of the facility will be minimal. It is anticipated, that the environmental impacts from development of the proposed facility stems from surface disturbance of the property due to land clearing and development of the waste cells. However, erosion control measures will be initiated prior to disturbance to control runoff and offsite erosion. Waste cell design will help prevent accumulation of rainwater within each cell. Because a Type III facility only accepts yard (grass, limbs, leaves) and construction wastes (bricks, concrete, boards, metal) noxious odors are not anticipated. No reports of odors from the Krause & Managan landfill have been reported by the LDEQ Lake Charles office.

The social and economic benefits of having a properly designed and operated construction/demolition debris, wood waste and yard waste landfill in the local area are considerable. Some of the benefits of the construction/demolition debris landfill are avoiding promiscuous dumping, minimizing truck traffic, maximizing available volume of the municipal landfill, and locating by an existing Type III landfill. Since there are minor expected environmental impact costs, the benefits are justifiably acceptable.

The cost/benefit analysis for this project was based on the facts that Krause & Managan currently operates a Type III Landfill adjacent to the expansion area and is located on cleared land with a borrow pit already excavated and little construction is required to develop the site. The Cell 4 does not impact cultural/historical sites, and has a minimal

impact of air, water, groundwater, soils, endangered flora, fauna, or wetlands. Due to the enormous amounts of construction and development in the parish area, the site will benefit the industrial and commercial entities by providing a convenient and efficient disposal location.

33:VII.523.C A discussion and description of possible alternative projects which would offer more protection to the environmental without unduly curtailing nonenvironmental benefits:

Several alternative technologies exist which could be implemented to process construction/demolition debris, wood waste and yard waste.

Recycling or resource recovery by the grinding or milling of wood waste would involve high capital and operating costs that would make the alternative prohibitive. Furthermore, the recycled product may not be marketable in the Calcasieu area.

Incineration would produce fugitive air emissions in the form of smoke and would also involve prohibitive costs. Energy recovery operations would involve increased air emissions or require special air scubbers.

Based on the inherent costs and/or fugitive air emissions in comparison with the waste volumes to be processed or disposed, such technologies would not be feasible.

Type I and Type II landfills were considered as alternative projects, but due to the inherent costs associated with the development of these landfills they were considered but not chosen for implementation.

Since the Krause & Managan Type III Landfill is currently in existence, the addition of Cell 4 offers adequate protection to the environment without unduly curtailing nonenvironmental benefits.

33:VII.523.D A discussion of possible alternative sites that would offer more protection to the environment without unduly curtailing nonenvironmental benefits:

Since this is a modification to an existing permit, alternate sites is not an issue. Below are the alternate site reviewed during the original permit application.

The area selected for development is owned by Krause and Managan Lumber Company. However, efforts were made to evaluate additional sites that would be less expensive to develop and have minimal environmental, economic, or social impacts. The following five sites were considered but not chosen during the pre-planning stages of the proposed development.

Site 1 This site is located in T 8 South, R 10 West, Section 23 NE¼, Buhler USGS Quadrangle. Krause and Managan Lumber Company is the current owner of the

property. This site is presently in agricultural production and agriculture is considered the best use for this site.

Site 2 This site is located approximately 1 mile northeast of the proposed residential development. This site is located in T 8 South, R 10 West, Section 24, NE¼, Buhler, USGS Quadrangle. Krause and Managan Lumber Company is the current owner of the property. This site is presently in agricultural production and agriculture is considered the best use for this site.

Site 3 This site is located approximately 15½ miles northeast of the proposed residential development. This site is located in T 8 South, R 8 West, Section 28, NE¼SW¼NW¼SE¼, Moss Bluff, USGS Quadrangle. This site was considered for landfill development, however, this property was not for sale.

Site 4 This site is located approximately 3 miles southeast of the proposed residential development. This site is located in T 9 South, R 8 West, Section 22 E½SE¼, Moss Bluff, USGS Quadrangle. This area was considered for development, however, research indicates this site is an isolated tract and no easements are available for access to this site.

Site 5 This site is located in T 9 South, R 8 West, Section 29 NW¼, Moss Bluff USGS Quadrangle. This site is owned by Krause and Managan Lumber Company. This site was considered was not selected due to lack of access with would require considerable impact to wetlands.

33:VII.523.E A discussion and description of the mitigating measures which would offer more protection to the environment than the facility, as proposed, without unduly curtailing nonenvironmental benefits:

Mitigating measures for the proposed landfill includes a final cover for the cells and a 50 foot buffer zone around the site. The final cover will be two feet thick and after contouring will be revegetated with grass. Portions of the immature pines present on site will be left in tact to serve as the buffer zone around the landfill.

The techniques proposed for the operation of this facility is either the most or the only mechanisms to control wastes. Operators will be posted to inspect all incoming waste prior to disposal. If unauthorized wastes are found, trucks will not be permitted to dump. Heavy equipment operators will periodically place fill dirt over the exposed waste as described in the application. Boundary fencing will eliminate unauthorized access into the facility.

For this site, quality assurance controls required are the visual monitoring of any dust emissions and surface runoff at the facility, and detection of unpleasant or noxious of odors.

All project planning attempted to evaluate impacts to and provide protection to the environment. No other measures were available to decrease or prevent environmental or human effects.

AUTHORITY NOTE: Promulgated in accordance with R.S. 30:2001 et seq.

HISTORICAL NOTE: Promulgated by the Department of Environmental Quality, Office of Solid and Hazardous Waste, Solid Waste Division, LR 19:187 (February 1993), amended by the Office of Waste Services, Solid Waste Division, LR 23:1685 (December 1997).

Attachment 2
Corps of Engineers Letter

DEPARTMENT OF THE ARMY
NEW ORLEANS DISTRICT, CORPS OF ENGINEERS
P.O. BOX 60267
NEW ORLEANS, LOUISIANA 70160-0267

20-020-1404

REPLY TO
ATTENTION OF:

May 30, 2002

Operations Division
Surveillance and Enforcement Section

Mr. Scott Spooner
Spooner and Associates, Inc.
Post Office Box 12685
Lake Charles, Louisiana 70612

Dear Mr. Spooner:

Reference is made to your request, submitted on behalf of the Krause and Managan Landfill, for a U.S. Army Corps of Engineers' (Corps) jurisdictional determination on property located in Section 23, Township 9 South, Range 10 West, Calcasieu Parish, Louisiana (enclosed map). Specifically, this property is identified as a Type III construction/demolition debris landfill site.

Based on review of recent maps, aerial photography, and soils data, we have determined that this property is not in a wetland subject to Corps' jurisdiction. A Department of the Army (DA) permit under Section 404 of the Clean Water Act will not be required for the deposition or redistribution of dredged or fill material on this site. However, wetlands have been identified in the immediate vicinity of this property. Any expansion will require a revised determination. Additionally, a DA permit will be required if you propose to deposit dredged or fill material into the drain depicted in blue on the map.

You and your client are advised that this approved jurisdictional determination is valid for a period of 5 years from the date of this letter unless new information warrants revision prior to the expiration date.

Should there be any questions concerning these matters, please contact Mr. Michael R. Patrick at (504) 862-1280 and reference our Account No. 20-020-1404.

Sincerely,

for Ronald J. Ventola
Chief, Regulatory Branch

Enclosures

ENDANGERED SPECIES GUIDANCE

I. INSTRUCTIONS

Below is a list of endangered and threatened species that EPA has determined, and LDEQ concurs, may be affected by the activities covered by the Multi-Sector General Permit (MSGP). These species are listed by parish. In order to get MSGP coverage, applicants must:

- Indicate in box provided on the NOI whether any species listed in this Guidance or critical habitat are in proximity to the facility,
- Certify pursuant to Part 1.2.3.6 that they have followed the procedures found in this Guidance to protect listed endangered and threatened species and designated critical habitat and that the storm water discharges and BMPs to control storm water run off covered under this permit meet the eligibility requirements of Part 1.2.3.6 of this permit. Signature and submittal of the NOI is deemed to constitute the Applicant's certification of eligibility for permit coverage.

To do this, please follow steps 1 through 5 below when developing the pollution prevention plan.

STEP 1: DETERMINE IF THE INDUSTRIAL SITE IS FOUND WITHIN DESIGNATED CRITICAL HABITAT FOR LISTED SPECIES.

Some (but not all) listed species have designated critical habitat. Exact locations of such habitat is provided in the Service regulations at 50 CFR part 17 and part 226. To determine if their industrial activity occurs within (also known as "in proximity to") critical habitat, applicants should either review those regulations or contact the nearest Fish and Wildlife Service (FWS) and National Marine Fisheries Service (NMFS) Office.

Fish and Wildlife Service
646 Cajundome Blvd.
Suite 400
Lafayette, LA 70506
(337) 291-3124

National Marine Fisheries Service
Southeast Regional Office
9721 Executive Center Drive North
St. Petersburg, FL 33702
(727) 570-5301

If the industrial site is not located in designated critical habitat, then the applicant need not consider impacts to critical habitat when following steps 2 through 5. If the applicant's site is located within (i.e. in proximity to) critical habitat then the applicant must look at impacts to critical habitat when following steps 2 through 5.

(It is noted that many measures imposed to protect listed species under steps 2 through 5 will also protect critical habitat. However, obligations to ensure that an action is not likely to result in the destruction or adverse modification of critical habitat are separate from those of ensuring that an action is not likely to jeopardize the existence of threatened and endangered species. Thus, meeting the eligibility requirements of this permit may require measures to protect critical habitat that are separate and distinct from those to protect listed species.).

STEP 2: REVIEW THE PARISH SPECIES LIST TO DETERMINE IF ANY SPECIES ARE LOCATED IN THE PARISH WHERE THE INDUSTRIAL ACTIVITIES OCCUR:

If no species are listed in a facility's parish or if a facility's parish is not found on the list, an applicant is eligible for MSGP coverage and may indicate in the NOI that no species are found in proximity and certify that it is eligible for MSGP coverage under Part 1.2.3.6 of the permit by marking "No" on the NOI. Where a facility is located in more than one parish, the lists for all parishes should be reviewed. *If species are located in the parish, follow step 3 below.*

STEP 3: DETERMINE IF ANY SPECIES MAY BE FOUND "IN PROXIMITY" TO THE INDUSTRIAL ACTIVITY'S STORM WATER DISCHARGES:

A species is in proximity to an industrial activity's storm water discharge when the species is:

- Located in the path or immediate area through which or over which contaminated point source storm water flows from the facility to the point of discharge into the receiving water.
- Located in the immediate vicinity of, or nearby, the point of discharge into receiving waters.
- Located in the area of a site where storm water BMP's are planned or are to be constructed.

The area in proximity to be searched/surveyed for listed species will vary with the size and structure of the facility, the nature and quantity of the storm water discharges, and the type of receiving waters. Given the number of industrial activities potentially covered by the MSGP, no specific method to determine whether species are in proximity is required for permit coverage under the MSGP. Instead, applicants should use the method or methods that best allow them to determine to the best of their knowledge whether species are in proximity to their particular industrial activities. These methods may include:

- Conducting visual inspections: This method may be particularly suitable for facilities that are smaller in size or located in non-natural settings such as highly urbanized areas or industrial parks where there is little or no natural habitat, or for industrial activities that discharge directly into municipal storm water collection systems.
- Contacting the nearest State Wildlife Agency or U.S. Fish and Wildlife Service (FWS) or National Marine Fisheries Service (NMFS) offices. Many endangered and threatened species are found in well-defined areas or habitats. That information is frequently known to State or Federal wildlife agencies.
- Contacting local/regional conservation groups. These groups inventory species and their locations and maintain lists of sightings and habitats.
- Conducting a formal biological survey. Larger facilities with extensive storm water discharges may choose to conduct biological surveys as the most effective way to assess whether species are located in proximity and whether there are likely adverse effects.
- Conducting an Environmental Assessment Under the National Environmental Policy Act (NEPA) Some industrial activities may require environmental assessments under NEPA. Such assessments may indicate if listed species are in proximity. (MSGP coverage does not trigger NEPA because it does not regulate any dischargers subject to New Source Performance Standards under Section 306 of the Clean Water Act. See CWA § 511(c). However, some industrial activities might require review under NEPA because of Federal funding or other Federal nexus.)

If no species are in proximity, an applicant is eligible for MSGP coverage under Part 1.2.3.6 of the permit.

If listed species are found in proximity to a facility, applicants must indicate the location and nature of this presence in the storm water pollution prevention plan and follow step 4 below.

STEP 4: DETERMINE IF SPECIES OR CRITICAL HABITAT COULD BE ADVERSELY AFFECTED BY THE INDUSTRIAL ACTIVITY'S STORM WATER DISCHARGES OR BY BMPs TO CONTROL THOSE DISCHARGES.

Scope of Adverse Effects: Potential adverse effects from storm water include:

- Hydrological. Storm water may cause siltation, sedimentation or induce other changes in the receiving waters such as temperature, salinity or pH. These effects will vary with the amount of storm water discharged and the volume and condition of the receiving water. Where a storm water discharge constitutes a minute portion of the total volume of the receiving water, adverse hydrological effects are less likely.

- Habitat. Storm water may drain or inundate listed species habitat.

- Toxicity. In some cases, pollutants in storm water may have toxic effects on listed species.

The scope of effects to consider will vary with each site. Applicants must also consider the likelihood of adverse effects on species from any BMPs to control storm water. Most adverse impacts from BMPs are likely to occur from the FACILITY activities. However, it is possible that the operation of some BMPs (for example, larger storm water retention ponds) may affect endangered and threatened species.

If adverse effects are determined to be not likely, then the applicant is eligible for MSGP coverage under Part 1.2.3.6 of the permit.

If adverse effects are likely, applicants should follow step 5 below.

STEP 5: DETERMINE IF MEASURES CAN BE IMPLEMENTED TO AVOID ANY ADVERSE EFFECTS:

If an applicant determines that adverse effects are likely, it can receive coverage if appropriate measures are undertaken to avoid or eliminate any actual or potential adverse affects prior to applying for permit coverage. These measures may involve relatively simple changes to the facility activities such as re-routing a storm water discharge to bypass an area where species are located, relocating BMPs, or limiting the size of the industrial activity that will be subject to storm water discharge controls.

At this stage, applicants may wish to contact the FWS and/or NMFS to see what appropriate measures might be suitable to avoid or eliminate adverse impacts to listed species and/or critical habitat. (See 50 CFR 402.13(b)). This can entail the initiation of informal consultation with the FWS and/or NMFS that is described in more detail below at step 6.

If applicants adopt measures to avoid or eliminate adverse affects, they must continue to abide by them during the course of permit coverage. These measures must be described in the storm water pollution prevention plan and may be enforceable as permit conditions.

If appropriate measures to avoid the likelihood of adverse effects are not available to the applicant, the applicant should follow step 6 below.

STEP 6: DETERMINE IF THE ELIGIBILITY REQUIREMENTS OF PART 1.2.3.6 CAN BE MET.

Where adverse effects are likely, the applicant must contact the LDEQ and FWS/NMFS. Applicants may still be eligible for MSGP coverage if any likelihood of adverse effects are addressed through meeting the criteria of Part 1.2.3.6 of the permit if:

- 1.2.3.6.1.2. The applicant's activity has received previous authorization through an earlier consultation or issuance of a Endangered Species Act (ESA) Section 10 permit (incidental taking permit) and that authorization addressed storm water discharges and/or BMPs to control storm water runoff (e.g., developer included impact of entire project in consultation over a wetlands dredge and fill permit under the ESA).
- 1.2.3.6.1.3. The applicant's activity was considered as part of a larger, more comprehensive assessment of impacts on endangered and threatened species and /or critical habitat under Section 10 of the Endangered Species Act that which accounts for storm water discharges and BMPs to control storm water runoff (e.g., where an area-wide habitat conservation plan and Section 10 permit is issued which addresses impacts from industrial activities including those from storm water or a NEPA review is conducted which incorporates ESA procedures).
- 1.2.3.6.1.4. Enter consultation with the FWS and/or NMFS for the applicant's storm water discharges and BMPs to control storm water runoff.

In such cases, the applicant is automatically designated as a non-federal representative. *See* Part 1.2.3.6.4. When conducting consultation as a non-federal representative, applicants should follow the procedures found in 50 CFR 402 the ESA regulations. Applicants must also notify LDEQ and the appropriate FWS/NMFS office of its intention to conduct consultation as a non-federal representative.

Coverage by the MSGP is permissible under Part 1.2.3.6.4 if the consultation results in either: 1) FWS/NMFS written concurrence with a finding of no likelihood of adverse effects (*see* 50 CFR 402.13) or 2) issuance of a biological opinion in which FWS and/or NMFS finds that the action is not likely to jeopardize the continued existence of listed endangered threatened species or result in the adverse modification or destruction of adverse habitat (see 50 CFR 403.14(h)).

Any terms and conditions developed through consultations to protect listed species and critical habitat must be incorporated into the pollution prevention plan. As noted above, applicants may, if they wish, initiate consultation during step Four above (upon becoming aware that endangered and threatened species are in proximity to the facility).

The determination of eligibility under the conditions of permit Part 1.2.3.6 shall be documented in the facility's SWPPP and copies of all applicable documents, such as FWS approval letters, included in the SWPPP.

The applicant must comply with any terms and conditions imposed under the eligibility requirements of permit Part 1.2.3.6 to ensure that storm water discharges or BMPs to control storm water runoff are protective of listed endangered and threatened species and/or critical habitat. Such terms and conditions must be incorporated in the applicant's storm water pollution prevention plan.

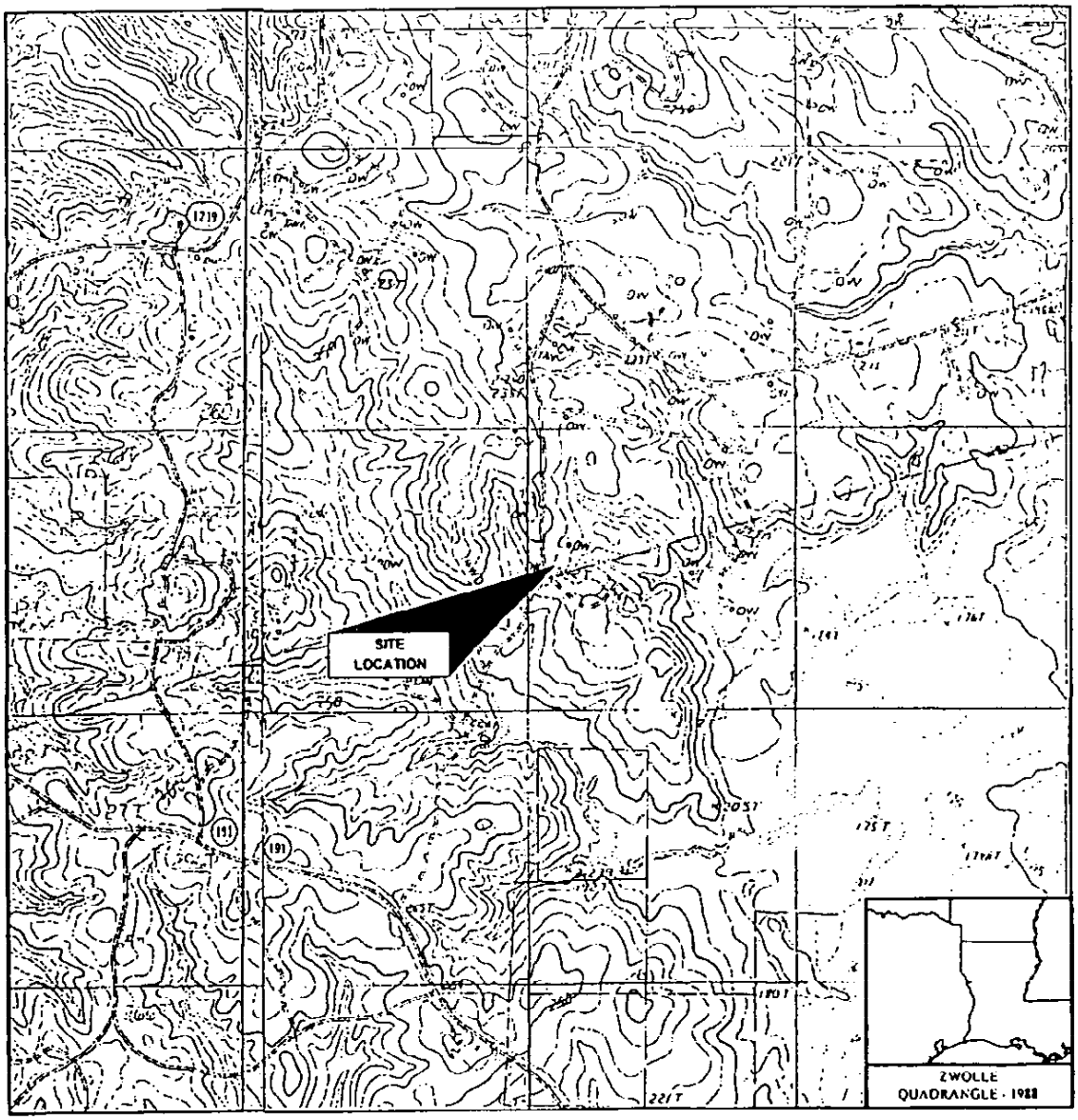
If the eligibility requirements of Part 1.2.3.6 cannot be met then the applicant may not receive coverage under this permit. Applicants should then consider applying to LDEQ for an individual permit.

This permit does not authorize any "taking" (as defined under Section 9 of the Endangered Species Act) of endangered or threatened species unless such takes are authorized under Section 10 of the Endangered Species Act. Applicants who believe their facility's activities may result in takes of listed endangered and threatened species should be sure to get the necessary coverage for such takes through an individual consultation or Section 10 permit.

This permit does not authorize any storm water discharges or BMPs to control storm water runoff that are likely to jeopardize the continued existence of any species that are listed as endangered or threatened under the Endangered Species Act or result in the adverse modification or destruction of designated critical habitat.

II. ENDANGERED SPECIES PARISH LIST

See http://www.deq.state.la.us/permits/lpdes/species.pdf



SCALE: 1 : 24,000

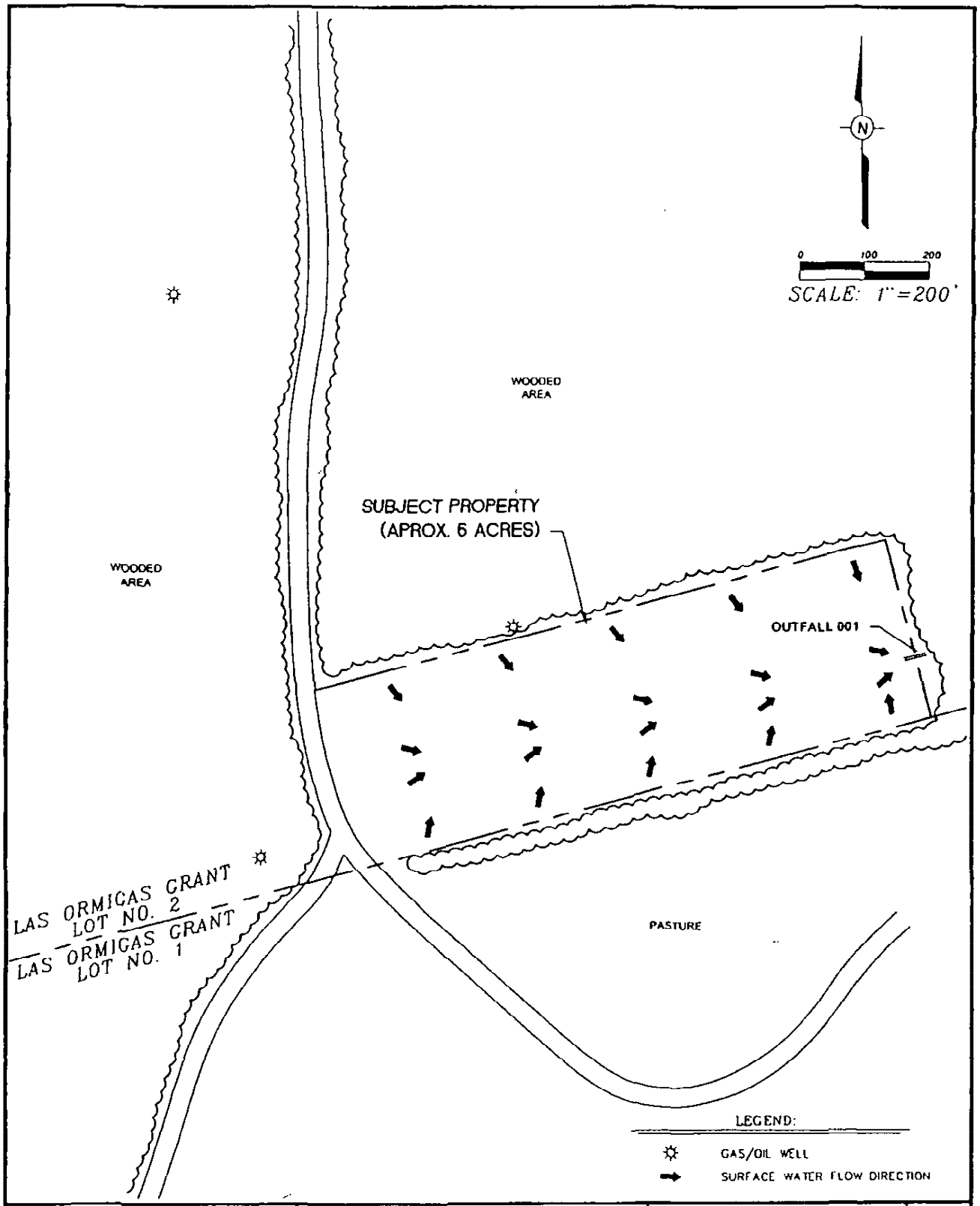
1 .5 0 1
MILES

1000 0 1000 5000 10,000
FEET

1 0 1 2
KILOMETER

1000 0 1000 2000
METER

PPM CONSULTANTS, INC.		WEYERHAEUSER ZWOLLE DIVISION - WOODWASTE LANDFILL SABINE PARISH, LOUISIANA	SITE LOCATION MAP
DRAWN BY: MH	DRAWN DATE: 12/08/05		FIGURE NUMBER 1
PROJECT NUMBER: 188206	BILLING GROUP: 05SP3		

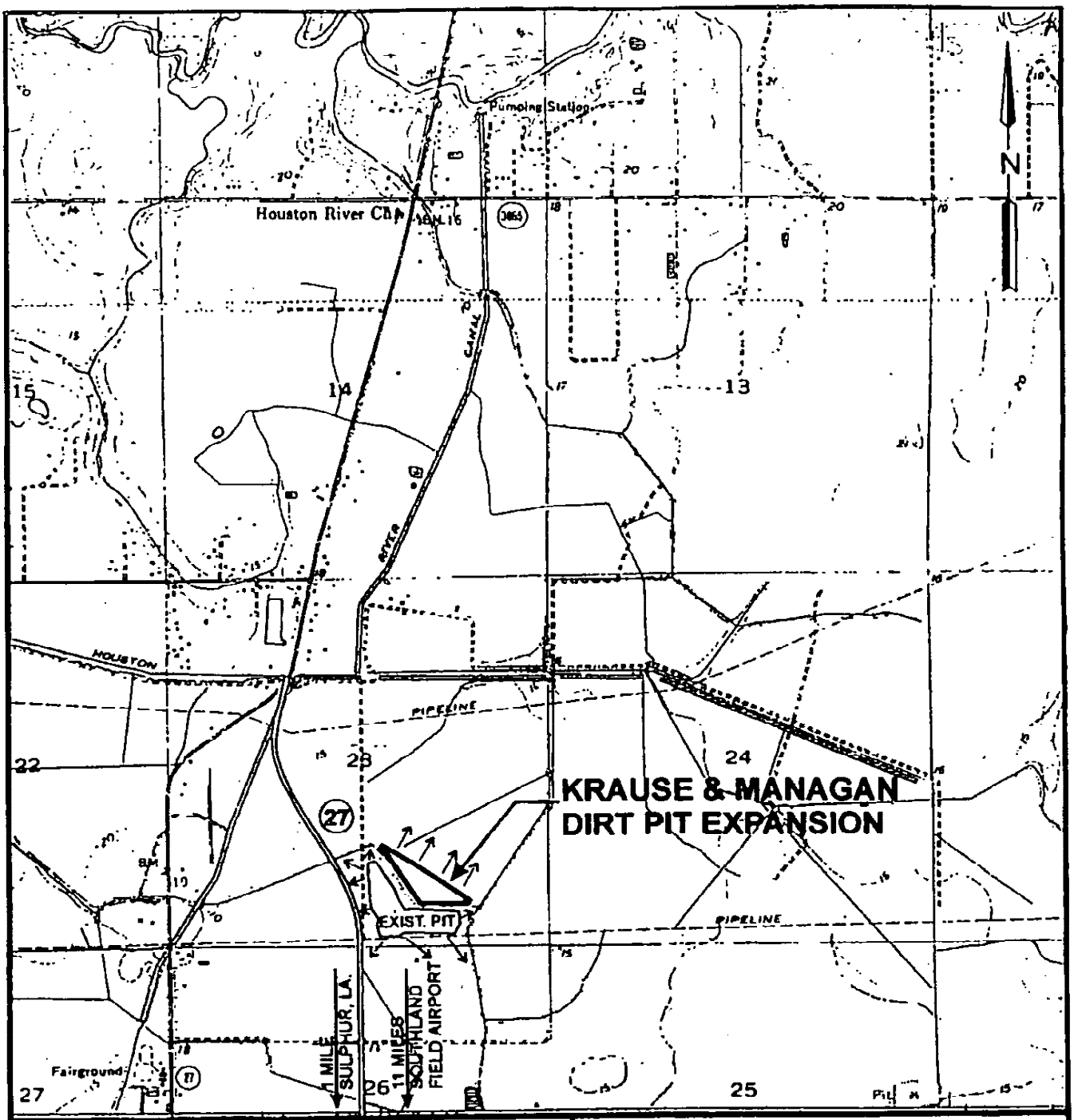


PPM CONSULTANTS, INC.	WEYERHAEUSER ZWOLLE DIVISION - WOODWASTE LANDFILL SABINE PARISH, LOUISIANA	SITE MAP	FIGURE NUMBER 2
DRAWN BY: MH / DRAWN DATE: 12/08/05			
PROJECT NUMBER: 188206 / BILLING GROUP: 05SP3			

ATTACHMENT 3
MODIFIED MAPS
THAT INCLUDED CELL 4

MODIFIED SITE LOCATION MAPS

Replaces original figure 1, Site Location Map



0 2000' 4000' 6000'

SCALE:1"=2000'

LEGEND:

→ SURFACE FLOW DIRECTION

REFERENCE:

BASE MAP TAKEN FROM U.S.G.S. 7.5 MINUTE QUADRANGLE MAP, "BUHLER, LOUISIANA" DATED 1956, PHOTO REVISED 1967 & 1975, AT A SCALE OF 1:24,000

KRAUSE & MANAGAN
WESTLAKE, LOUISIANA

CONSTRUCTION/DEMOLITION
DEBRIS LANDFILL APPLICATION

SITE LOCATION MAP

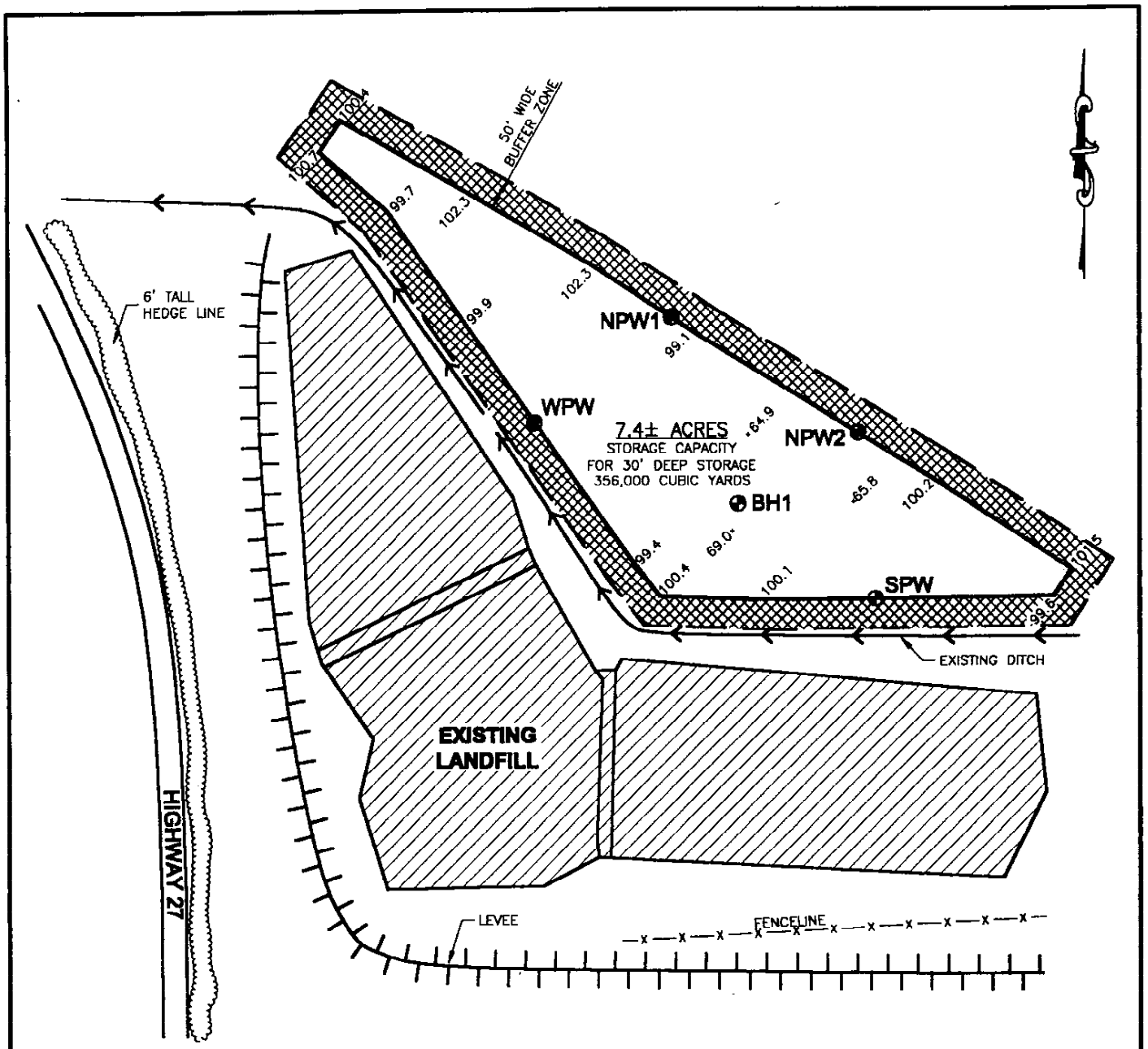
CALCASIEU PARISH

Drawn	E.C.M.	Date:	12-05-2000
Checked:	T.C.	FIGURE 1	
Approved:	S.S.		

Spooner & Associates, Inc.
Environmental, Geotechnical
& Civil Engineering

LOCATION MAP

Replaces original figure 2, Site Facility Map



250' 0 250' 500'

SCALE: 1" = 250'

LEGEND:

⊕	BORE HOLE
100.1	GROUND ELEVATIONS

NOTES:

1. TOTAL STORAGE CAPACITY 356,000 CUBIC YARDS
2. ELEVATIONS ARE ASSUMED FOR SITE, AND ARE NOT BASED ON ANY KNOWN DATUM.

8228

KRAUSE & MANAGAN
WESTLAKE, LOUISIANA

CONSTRUCTION/DEMOLITION
DEBRIS LANDFILL APPLICATION

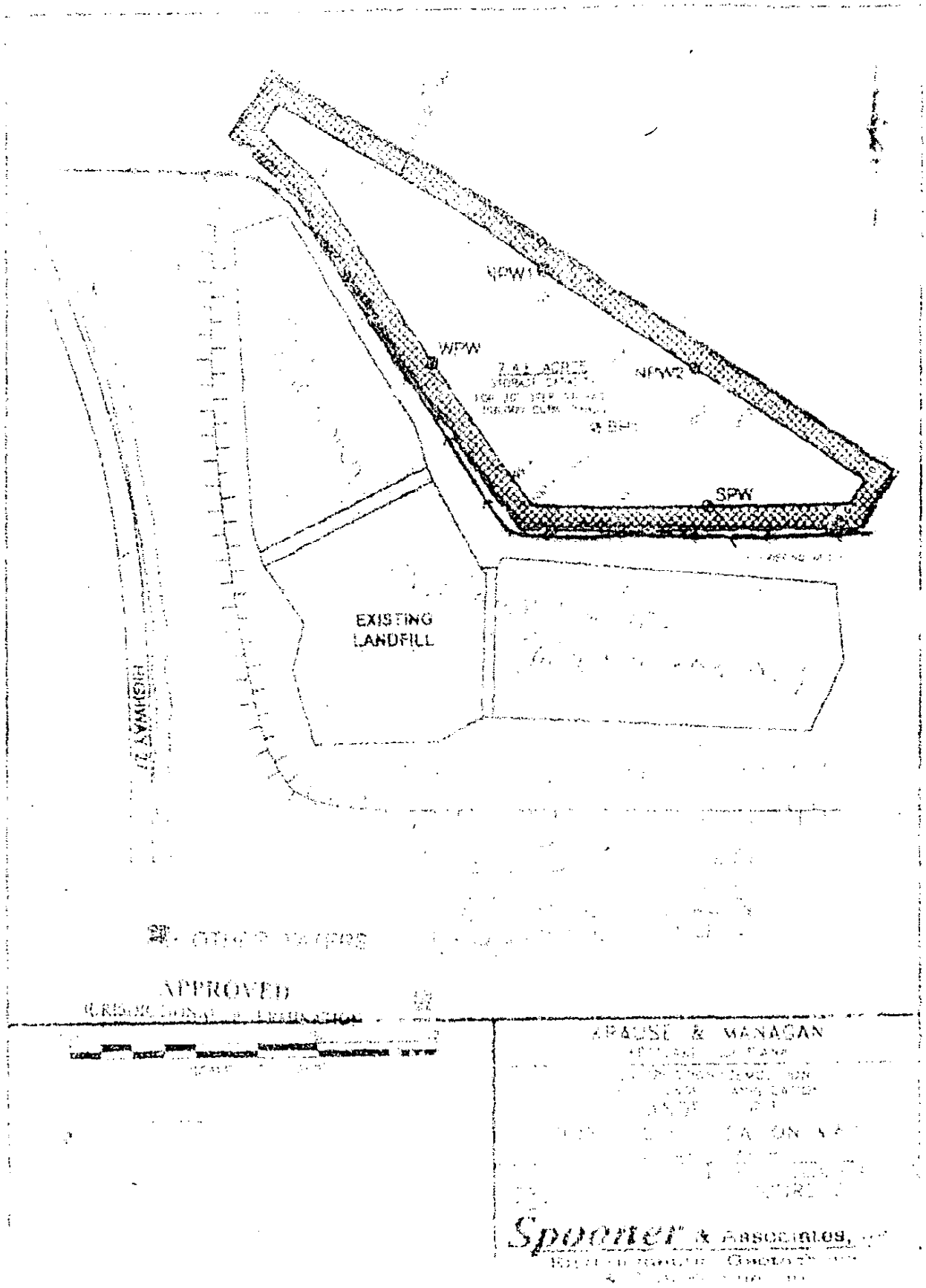
LANDFILL PIT
BORE HOLE LOCATION MAP

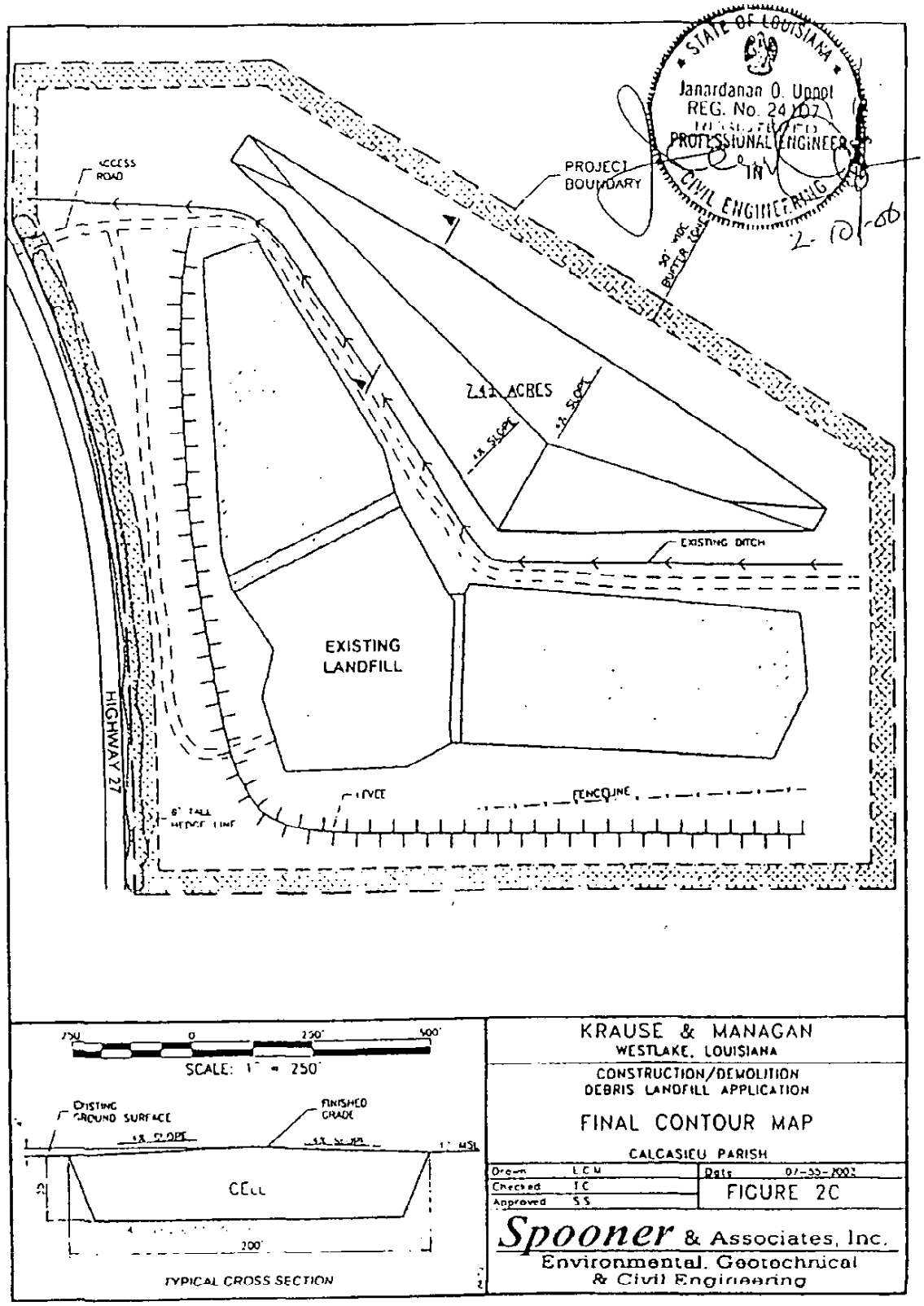
CALCASIEU PARISH

Drawn:	E.C.M.	Date:	12-05-2000
Checked:	T.C.	FIGURE 2	
Approved:	S.S.		

Spooner & Associates, Inc.
Environmental, Geotechnical & Civil Engineering

BEST COPY


NPW1
WPW
NPW2
SPW
EXISTING
LANDFILL
HIGHWAY 71
APPROVED
APRUSE & MANAGAN
Spooner & Associates,



KRAUSE & MANAGAN
WESTLAKE, LOUISIANA

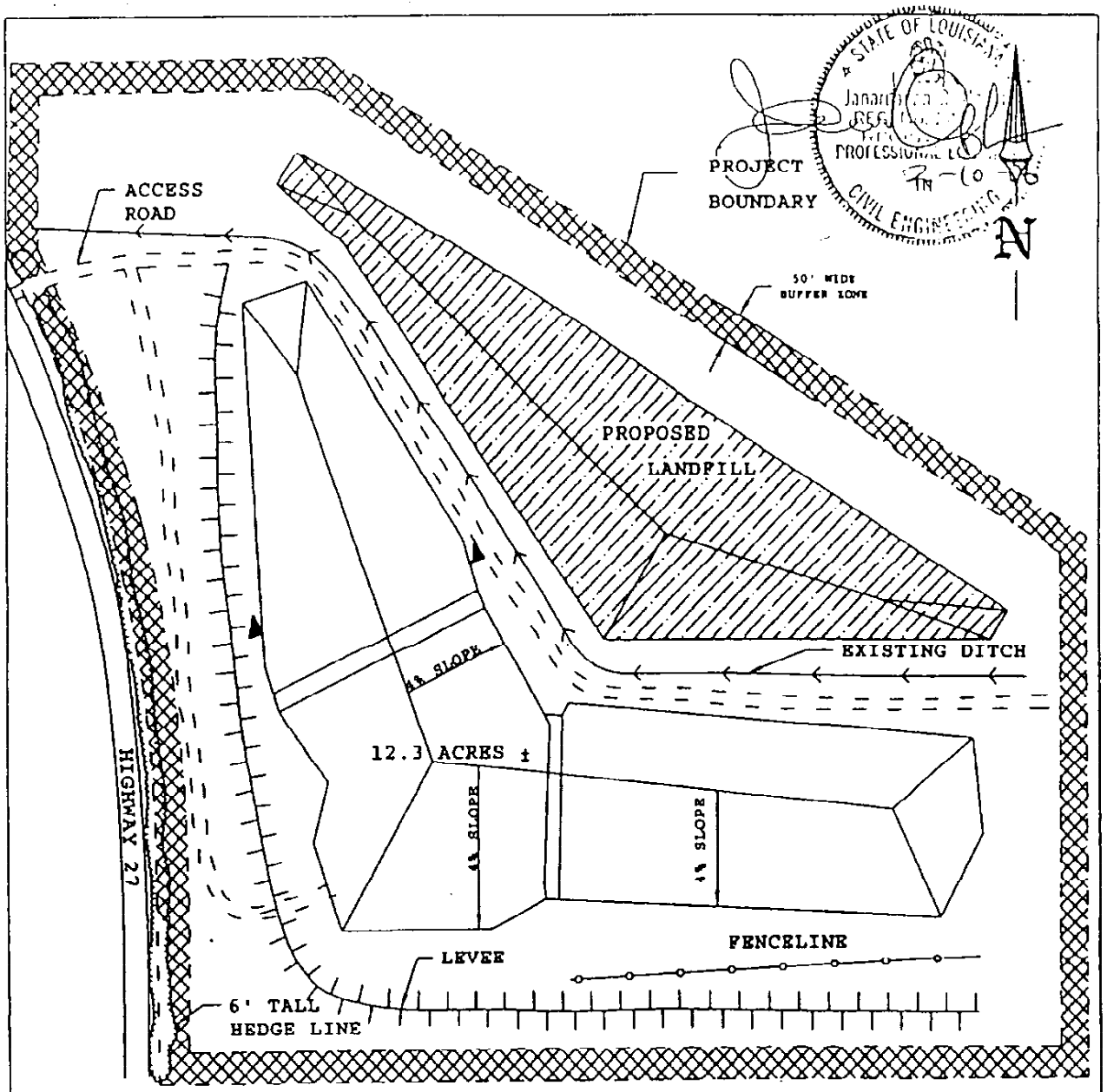
CONSTRUCTION/DEMOLITION
DEBRIS LANDFILL APPLICATION

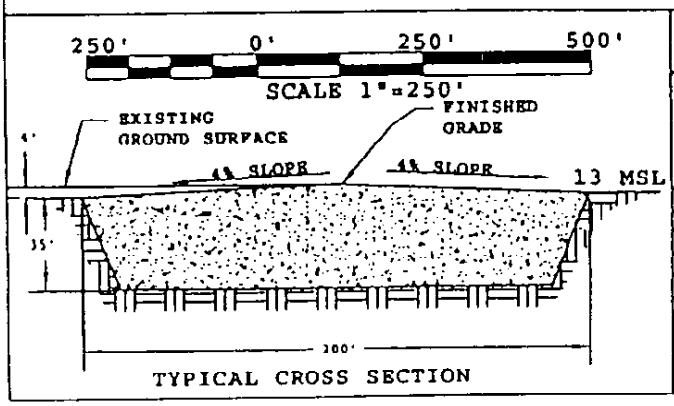
FINAL CONTOUR MAP

CALCASIEU PARISH

Drawn	LCM	Date 07-30-2002
Checked	TC	FIGURE 2C
Approved	SS	

Spooner & Associates, Inc.
Environmental, Geotechnical
& Civil Engineering





KRAUSE & MANAGAN
WESTLAKE, LOUISIANA

CONSTRUCTION/DEMOLITION DEBRIS LANDFILL APPLICATION
FINAL CONTOUR MAP
CALCASIEU PARISH

DRAWN BY: E.C.M.	DATE: 02/07/06
CHECKED BY: T.C.	FIGURE 2C-1
REVISED BY: JRO	
APPROVED BY: SDS	

SPOONER & ASSOCIATES, INC.
ENVIRONMENTAL, GEOTECHNICAL, & CIVIL ENGINEERING

"I certify under penalty of law that I have personally examined and I am familiar with the information submitted in this permit application and that the facility as described in this permit application meets the requirements of the solid waste rules and regulations. I am aware that there are significant penalties for knowingly submitting false information, including the possibility of fine and imprisonment."

Signature William R Hayes Jr
Date 2-10-2006

Typed Name and Title William R Hayes Jr
President

(Note: Attach Proof of the legal authority of the signee to sign for the applicant.)

ATTACHMENT 4
RESOLUTION

RESOLUTION

A SPECIAL MEETING OF THE BOARD OF DIRECTORS OF

KRAUSE & MANAGAN LUMBER COMPANY, LIMITED

SULPHUR, LOUISIANA **FEBRUARY 10, 2006**

A meeting of the Board of Directors of Krause & Managan Lumber Company, Limited was held at the office of the corporation in Calcasieu Parish, Sulphur, Louisiana on February 10, 2006. A majority of Directors were represented.

After discussion and on motion duly made, seconded and unanimously adopted, it was resolved as follows:

RESOLVED that William R. Hays, Jr., as President, is hereby authorized, empowered, and directed to act on behalf of Krause & Managan Lumber Company, Limited in executing any, and all documentation to the Louisiana Department Of Environmental Quality and other government agencies for the purpose of obtaining the necessary landfill permit.

There being no further business to come before the meeting and motions duly made, seconded, and unanimously adopted, the meeting was adjourned.

Secretary

CERTIFICATE

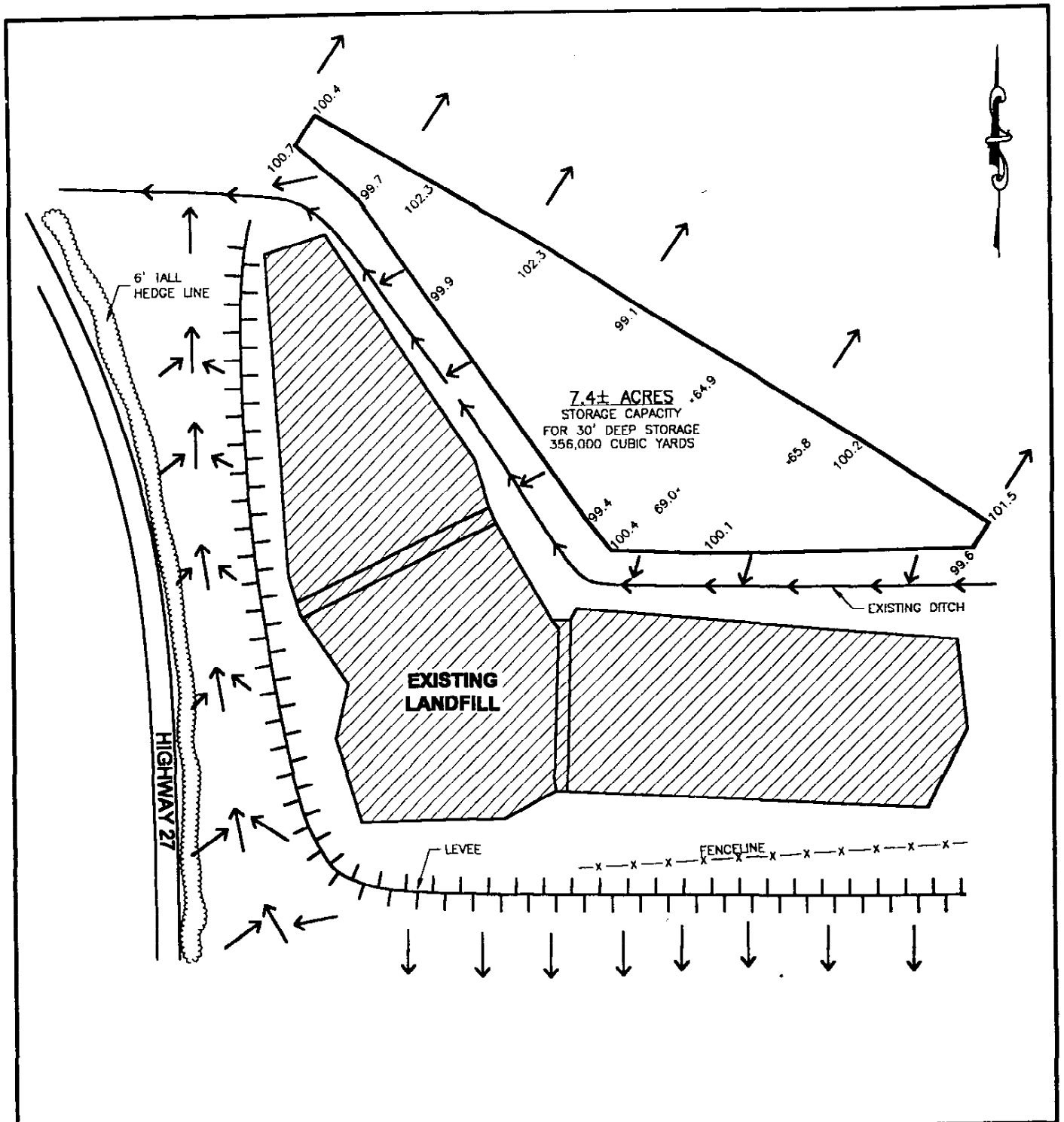
I HEREBY CERTIFY that the above and foregoing is a true and correct copy of a resolution adopted by the members of the Board of Directors of Krause & Managan Lumber Company, Limited at a special meeting of the members of the Board of Directors held in Sulphur, Louisiana on February 10, 2006 after notice to all members of said Board and all members being present or represented and the same has not been revoked and is presently in full force and effect.

WITNESS my official signature at Sulphur, Louisiana, on this 10th day of February, 2006

Secretary

ATTACHMENT 5
DRAINAGE MAP

Replaces original figure 6, Drainage Map.



250' 0 250' 500'

SCALE: 1" = 250'

LEGEND:

100.1 GROUND ELEVATIONS

← SURFACE WATER FLOW DIRECTION

NOTES:

1. TOTAL STORAGE CAPACITY 356,000 CUBIC YARDS
2. ELEVATIONS ARE ASSUMED FOR SITE, AND ARE NOT BASED ON ANY KNOWN DATUM.

KRAUSE & MANAGAN
WESTLAKE, LOUISIANA

CONSTRUCTION/DEMOLITION
DEBRIS LANDFILL APPLICATION

SURFACE FLOW PATTERNS

CALCASIEU PARISH

Drawn:	E.C.M.	Date:	12-05-2000
Checked:	T.C.	FIGURE 3	
Approved:	S.S.		

Spooner & Associates, Inc.
Environmental, Geotechnical & Civil Engineering

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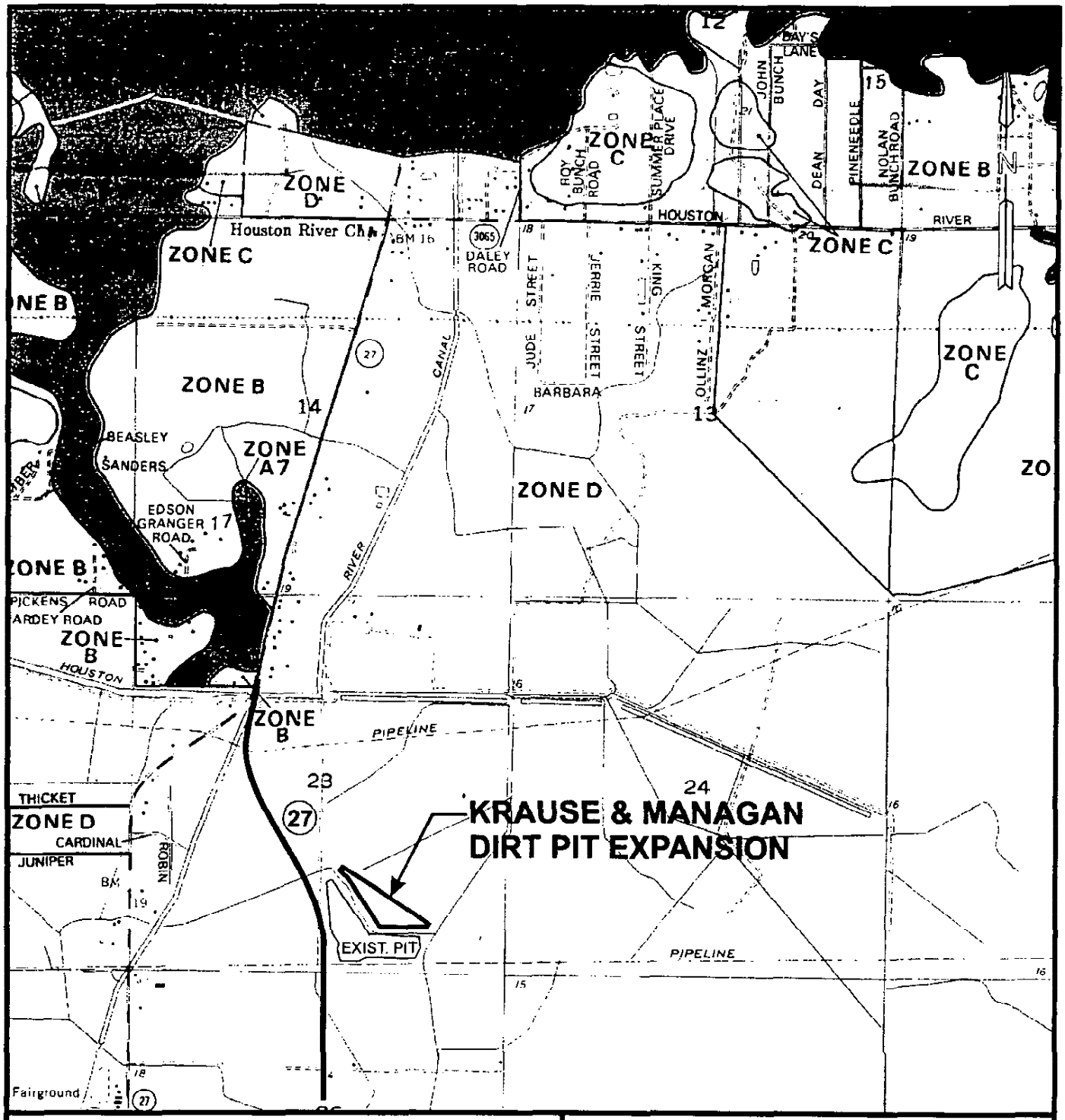
ATTACHMENT 6
FLLOD ZONE MAP

Replaces original figure 3, Flood Zone Map.



0 2000' 4000' 6000'

SCALE:1"=2000'

REFERENCE:
BASE MAP TAKEN FROM FLOOD INSURANCE RATE MAP
COMMUNITY-PANEL NUMBER 220037 0225 C
MAP REVISED: FEBRUARY 2, 1996

KRAUSE & MANAGAN
WESTLAKE, LOUISIANA

CONSTRUCTION/DEMOLITION
DEBRIS LANDFILL APPLICATION

FLOOD ZONE MAP

CALCASIEU PARISH

Drawn:	E.C.M.	Date:	12-05-2000
Checked:	T.C.		FIGURE 4
Approved:	S.S.		

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