

KANSAS GEOLOGICAL SURVEY

The University of Kansas
1930 Constant Ave
Lawrence KS 66047-3726
phone 785-864-3965
fax 785-864-5317
www.kgs.ku.edu

March 31, 2006

Mr. Randy Alewine, P. E.
The Stinson Environmental Group, L.L.C.
13410-L Santa Fe Drive
Lenexa, Kansas 66215

**Re: Permit Notification for Construction and Demolition Landfill
Holland Construction and Demolition Landfill; KDHE Permit #840
Johnson County, Kansas**

Dear Mr. Alewine,

I checked the publication containing the responses to requests for comment by the Kansas Geological Survey (KGS) for 2002 (KGS Open-File Report 2003-19) along with querying the scientists that routinely respond to this type of request, and I could not find a response to URS Corporation in regard to the Holland Construction & Demolition (C&D) Landfill. With this in mind, I will respond to your request for comment by the KGS on the proposed permit modification for the existing C&D Landfill for Holland Corporation in Johnson County. The proposed disposal area is located in the Section 16, T14S, R23E.

Your letter included a portion of the USGS 1:100,000 scale topographic map showing the location of the C&D Landfill. Additionally, I examined the USGS Ocheltree 7½-minute topographic map, a 2002 orthophotograph, a geologic map and report of Johnson County (O'Connor, 1971), a report on caves (Young and Beard, 1993), and the KGS database of industrial mineral producers (<http://www.kgs.ku.edu/Magellan/Minerals/index.html>). The northwest quarter section is being actively quarried by the Holland Corporation. The northeast quarter section is being actively quarried by Olathe Aggregate Company. The map enclosed in your letter shows the location of the C&D landfill includes both quarried and unquarried areas of NW ¼ of Section 16. The surface geology is Pennsylvanian-age Weston Shale Member of the Stranger Formation and Stanton Limestone Formation. A member is an identifiable stratum or series of strata within a formation. The Weston Shale member is located at the higher elevations of Section 16 and is composed of clayey shale with some siltstone near the top of the member. The Stanton Limestone is below the Weston Shale and is composed of interbedded limestone and shale. The KGS has no information on the identity of the limestone being mined in Section 16, but the Johnson County geologic map suggests that the unit is either the Stanton Limestone or the Plattsburg Limestone. The Captain Creek Limestone Member of the Stanton Limestone has several small caves in southern Kansas although none have been reported in Johnson County. The Stoner Limestone Member of the Stanton Limestone has joints (fractures) that have been widened by dissolution in Platte County, Missouri. Although these

localities are some distance from the proposed location, they indicate that these limestones are susceptible to dissolution.

Two possible situations exist in Section 16: either the C&D Landfill is within areas that have been mined or it is outside the mine. If the landfill is outside the mine and at higher elevations in the section where the Stranger Formation is mapped, and as long as the Stranger Formation is not removed, then the KGS has no knowledge of geologic conditions that would affect the landfill. If, however, the Stranger Formation is removed, or the Stanton Limestone is exposed, then open joints, especially those that have become widened by dissolution become a concern. If the C&D landfill is within mined areas, then joints in the mine floor and highwall may be a concern. Joints in limestone and other rock types could potentially be pathways for leachate and contaminants away from the landfill. The KGS suggests that preventive measures, which are appropriate based on potential health hazards, should be taken to contain leachates and contaminants at the site if the project is approved.

The Kansas Geological Survey has no knowledge of landslide or other geologic concerns at this landfill site.

The above discussion represents our best assessment based on the information that the Kansas Geological Survey has about this locality and/or proposed project at the time of this writing. Other geologic conditions, not discussed herein, or for which the Kansas Geological Survey has no knowledge, may affect the viability or safe operation of this facility or property. The information provided in this letter is from regional or countywide studies and should not be used as a substitute for detailed site characterization by a licensed geologist or engineer. It is the responsibility of the applicant to provide any required site characterizations.

References:

O'Connor, H. G., 1971. Geology and Ground-water Resources of Johnson County, northeastern Kansas, Kansas Geological Survey Bulletin 203, 68 p.

Young, J. and Beard, J., 1993. Caves in Kansas, Kansas Geological Survey Educational Series 9, 47 p.

If you have any questions about my comments, feel free to contact me at (785) 864-2194 or ohlmac@kgs.ku.edu.

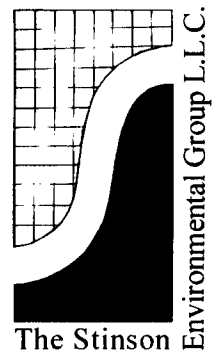
Sincerely,

A handwritten signature in black ink, appearing to read 'G. Ohlmacher', with a stylized, flowing script.

Gregory C. Ohlmacher, P.G.
Engineering Geologist

March 13, 2006

Mr. Greg Ohlmacher
Kansas Geological Survey
The University of Kansas
1930 Constant Avenue
Lawrence, KS 66047-3726



In Re: Holland C&D Landfill, Permit No. 840
Johnson County, KS

Dear Mr. Ohlmacher:

The Stinson Environment Group, LLC (SEG) is preparing a permit modification (Phases 2-5) for an existing Construction and Demolition Landfill for Holland Corporation, Johnson County, KS. The Kansas Department of Health and Environment (KDHE), Bureau of Waste Management (BWM), requests we notify the agencies listed (item 10, p. 2 of the attachment) and ask if they have any comments relative to regulatory compliance or human, health, environmental, and cultural resource issues regarding the permit modification. Pages 1 & 2 only are shown but the entire application may be found on the KDHE/BWM web page.

Originally, a letter was sent to Kansas Geological Survey in March 2002 by URS Corporation; however, the response letter was not included in the original Phase 1 permit modification. If a response letter was written in 2002, please forward a copy of that letter to me. If there is no response letter in your files, your comments are requested in accordance with BWM policy before the formal permit modifications for Phases 2-5 can be submitted to KDHE for review.

The enclosed maps show the location of the proposed facility and are located in Section 16, Township 14 South, Range 23 East, in Johnson County, Kansas. Do not hesitate to call me if you have any questions about the site or its operation. Additional information is available upon request.

Thank you for your time and assistance in your review.

Sincerely,

A handwritten signature in black ink, appearing to read 'Randy Alewine', is written over the word 'Sincerely,'.

Randy Alewine, P.E.
Senior Project Manager

Enclosures

xc: Holland Corporation

Send To Printer

Back To TerraServer

Change to 11x17 Print Size

Show Grid Lines

Change to Landscape

USGS 9 km SW of Olathe, Kansas, United States 01 Jul 1981

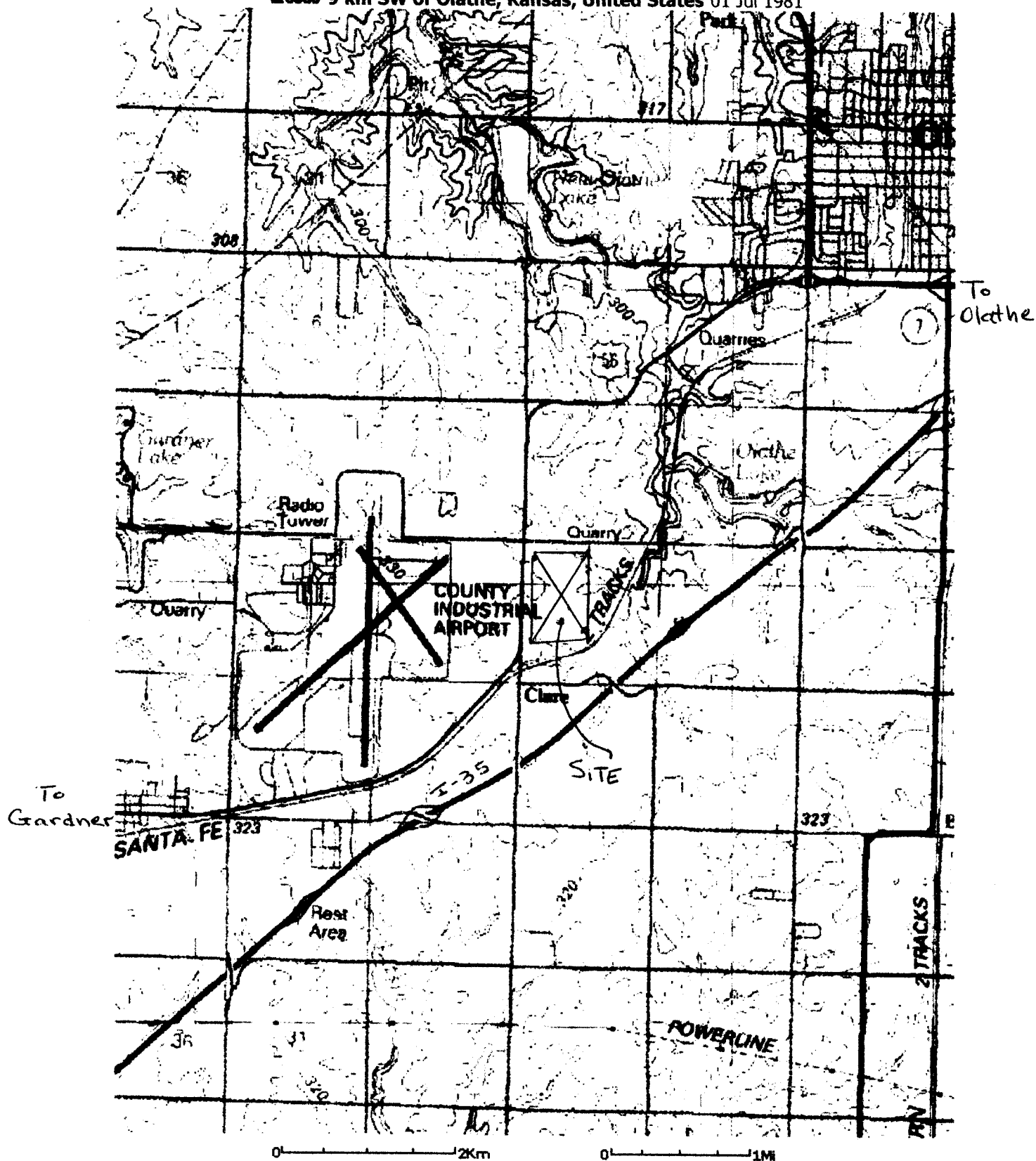


Image courtesy of the U.S. Geological Survey

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HOLLAND C&D LANDFILL

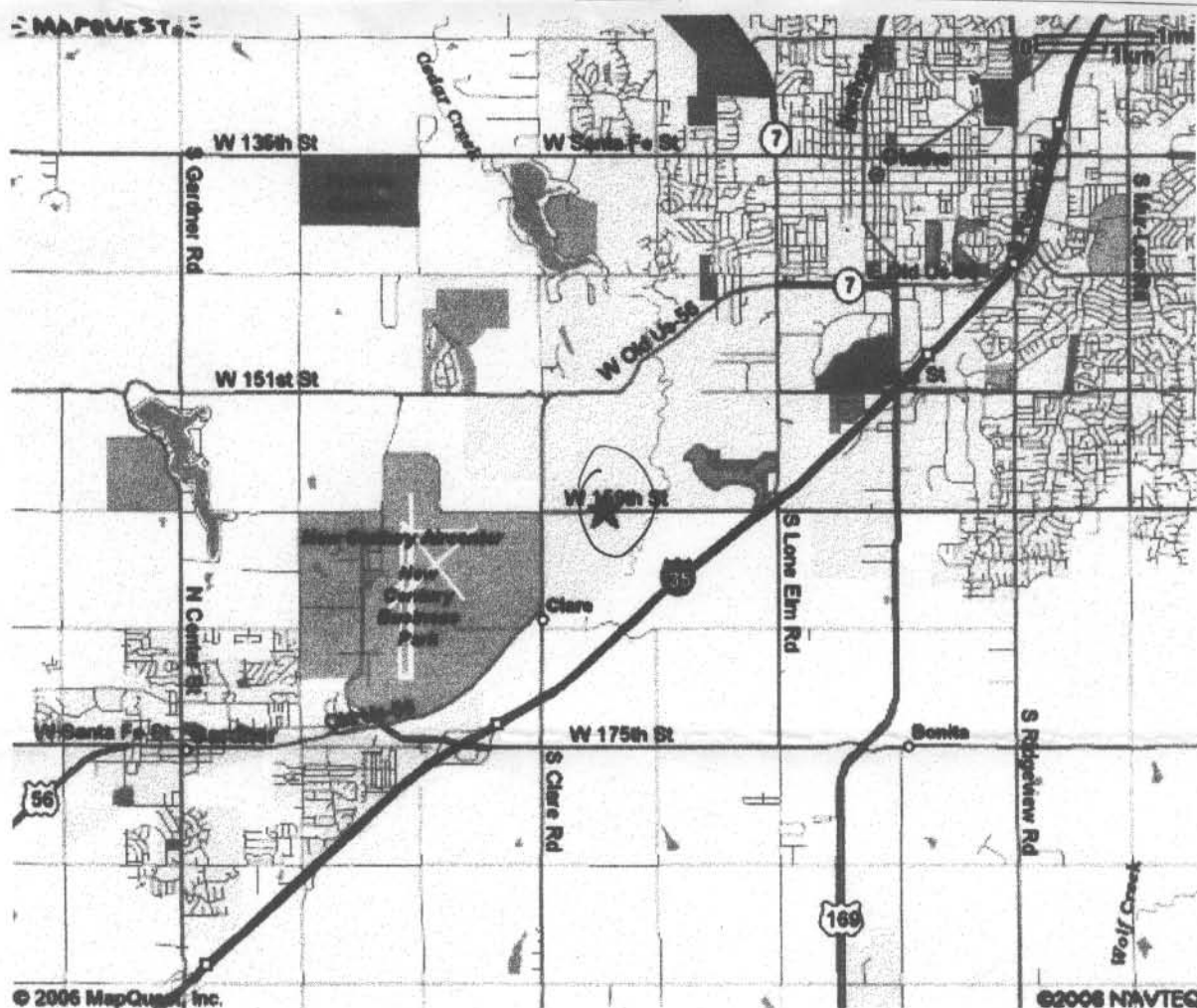
JOHNSON COUNTY, OLATHE, KS

23775 W. 159th St.

MAPQUEST.

23775 W 159th St
Olathe KS
66061-9420 US

Notes:



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This map is informational only. No representation is made or warranty given as to its content. User assumes all risk of use. MapQuest and its suppliers assume no responsibility for any loss or delay resulting from such use.

SITE LOCATION MAP
HOLLAND C&D LANDFILL
OLATHE, KS



KANSAS

RODERICK L. BREMBY, SECRETARY

DEPARTMENT OF HEALTH AND ENVIRONMENT

KATHLEEN SEBELIUS, GOVERNOR

APPLICATION FOR SOLID WASTE LANDFILL PERMIT

I. Applicant information:

Applicant's name _____
Mailing address _____
(Street Address) (City & State) (Zip)
Person to contact _____ Title _____
Telephone (_____) _____ Fax (_____) _____
E-mail address _____

Entity type (check one):

____ Federal Agency ____ County ____ Business
____ State Agency ____ City ____ Individual
____ Township ____ Other _____

II. Site information:

Facility name _____
Physical address _____
(Street Address) (City & State) (Zip)
____ County
____ 1/4 of the, ____ 1/4 of the, ____ 1/4 of, Section _____, Township _____, Range _____

In the following table, fill in *total* areas and capacities (not just *remaining* values). "Existing" parameters should match the existing landfill permit and approved plans for an existing facility; or for a new facility leave the "existing" columns blank.

Parameters	Existing			Proposed		
Property area (acres)						
Landfill types	MSW	Ind.	C&D	MSW	Ind.	C&D
Disposal area (acres)						
Capacity (tons)						
Capacity (cubic yards)						
Capacity (years)						

III. Type of application (check one):

____ New permit
____ Modification* of an existing permit
____ Transfer** of an existing permit

MSW = municipal solid waste landfill (see K.S.A. 65-3402(cc))
Ind. = industrial waste (see K.S.A. 65-3402(x)) landfill; also
includes waste tire monofills and asbestos monofills
C&D = construction and demolition landfill (see K.S.A. 65-3402(v))
* / ** See notes on page 2

DIVISION OF ENVIRONMENT
Bureau of Waste Management

CURTIS STATE OFFICE BUILDING, 1000 SW JACKSON ST., STE. 320, TOPEKA, KS 66612-1366

Voice 785-296-1600

Fax 785-296-1592

<http://www.kdhe.state.ks.us/waste>

Application for Solid Waste Landfill Permit

____ Leaching tests

Required for industrial landfills when the waste characterization identifies constituents that pose a risk to groundwater quality.

Submit leaching test results using an EPA or ASTM method that most closely simulates the landfill environment.

____ Hydrogeologic investigation (see K.A.R. 28-29-104(b))

Required for all municipal solid waste landfills, and required for industrial landfills used for disposal of non-inert waste.

Hydrogeologic reports may be submitted prior to submission of this application form.

____ Request for Location Demonstration Information Regarding Distance from the Nearest Intake Point of a Public Surface Water Supply System[†]

____ Location demonstrations (see K.A.R. 28-29-23(d), 102, 302, and Policy 02-02)

____ Agency notifications and requests for comments

____ Kansas Biological Survey

____ Kansas Corporation Commission

____ Kansas Department of Agriculture - Division of Water Resources

____ Kansas Department of Wildlife and Parks

____ Kansas Geological Survey

____ Kansas State Conservation Commission

____ Kansas State Historical Society

____ Kansas Water Office

____ U.S. Department of the Army - Corps of Engineers

____ Other _____

Input from other agencies may be required.

____ Map and description of abutting properties including location and land use, names and mailing addresses of property owners. If the proposed site is adjacent to a public road, include property across the road.

____ Design drawings and calculations (see K.A.R. 28-29-6, 23, 103, 104, 304, 325)

____ Groundwater monitoring plans and reports (see K.A.R. 28-29-111 through 113)

Required for all municipal solid waste landfills, and required for industrial landfills used for disposal of non-inert waste.

Groundwater monitoring plans and reports may be submitted separate from this application form.

____ Operations plan (see K.A.R. 28-29-23, 108, 308, 325)

____ Closure and post-closure plans (see K.A.R. 28-29-12, 121, 304, 321, 325)

____ Closure, post-closure, and estimated life worksheets[†]