Exponent™

Exponent
4000 Kruse Way Place
Building 2, Suite 285
Lake Oswego, OR 97035

telephone 503-636-4338
facsimile 503-636-4315
www.exponent.com

November 28, 2001

Ms. Gwen Zervas, P.E.
Bureau of Federal Management
New Jersey Department of Environmental Protection
401 East State Street
Trenton, New Jersey 08625

Subject: Draft cross sections for the Ventron/Velsicol Site, Wood-Ridge/Carlstadt, New Jersey
Project No. 8600B3N.005 0201

Dear Gwen:

Attached please find a transect location map and four draft geological cross sections for the Ventron/Velsicol site in Wood-Ridge/Carlstadt, New Jersey. These cross sections were prepared by Exponent on behalf of Rohm and Haas Company. Three of the cross sections (AA-AA', CC-CC', and EE-EE') are based on cross sections presented in the draft remedial investigation report for OU1 of the site. These cross sections have been revised to include data from the Ward reports, resulting in substantial changes. No changes have been made to cross sections BB-BB', DD-DD', and FF-FF', and they are not included in this submittal. The fourth cross section (GG-GG') is new and is located under the existing warehouses. In general, data from the Ward reports provide more stratigraphic detail and extend to deeper depths than do the NJDEP and Exponent data that were used to create the original cross sections. These cross sections represent our best professional judgment regarding the geology underlying the Ventron/Velsicol site, based on the available data.

Please feel free to contact me at (518) 370-5132, Ken Walanski at (312) 807-3313, or John Hock at (630) 963-6026, if you have any questions regarding these cross sections.

Sincerely,

for

Betsy Henry, Ph.D.
Project Manager

Enclosures (5)

cc: Seth Ausubel, USEPA Region 2
John Hock, CEC Inc.
Norm Kennel, Memphis Environmental Center
Ron Lantzy, Ken Walanski, Margaret Bazany, Rohm and Haas Company

8600B3N.001 0101 1101 BH28
g:\docs\8600b3n.005 0101\letter to gwen on cross sections2.doc

411289

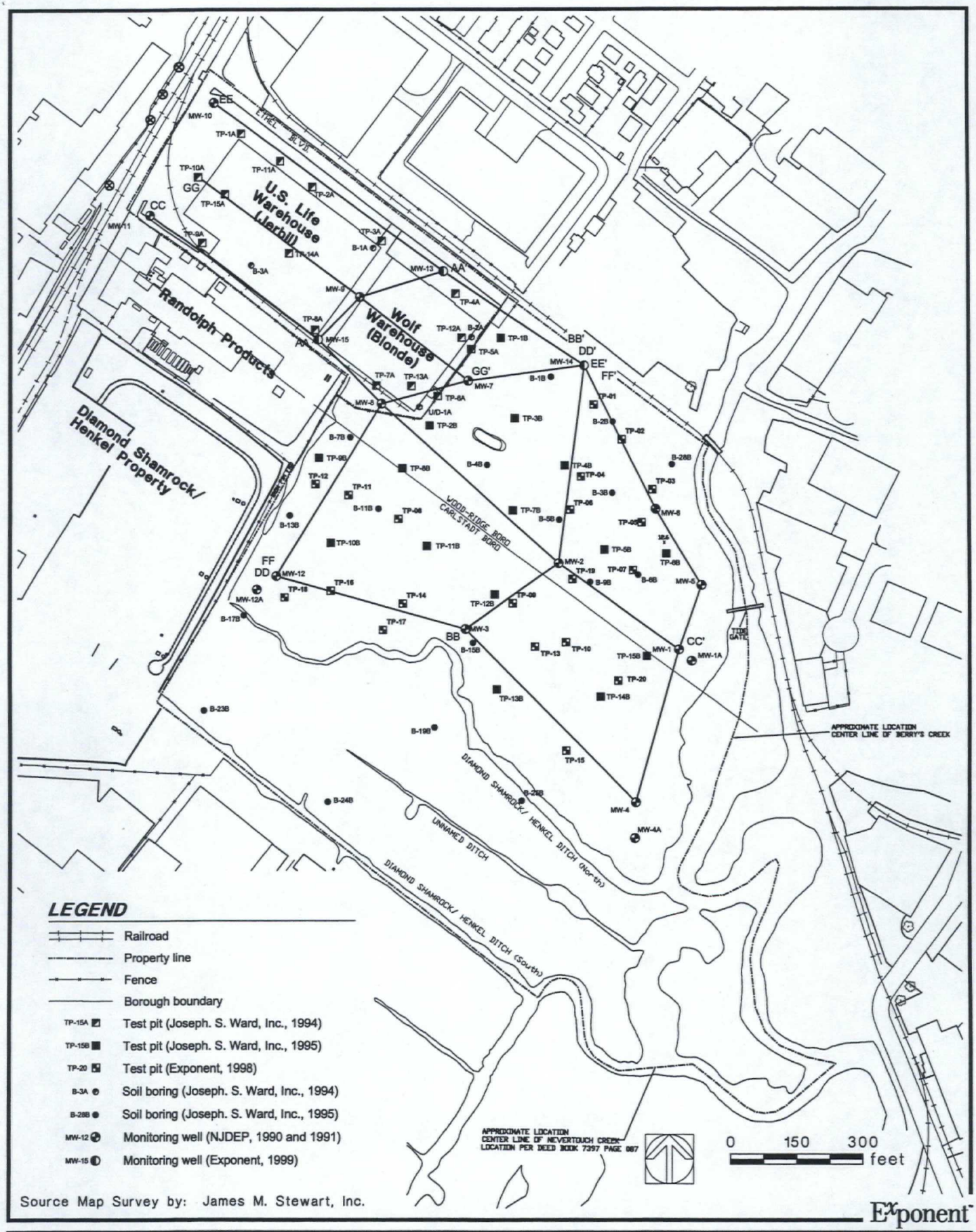
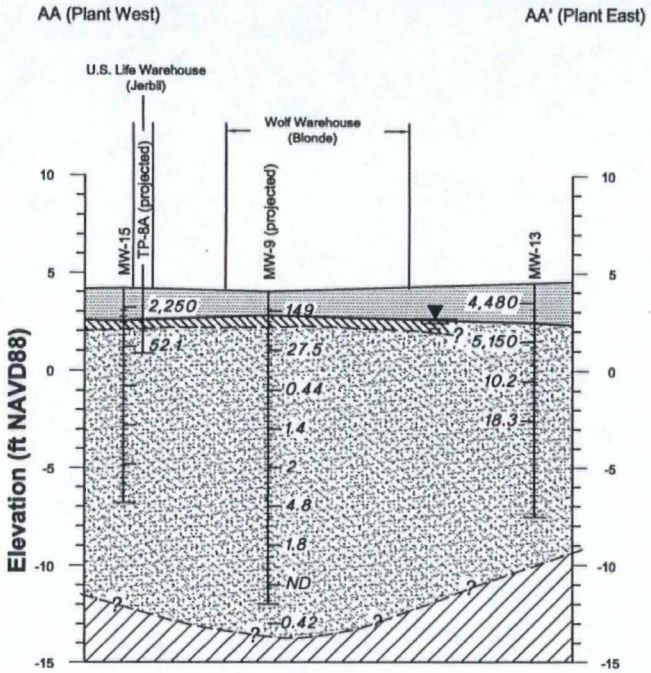
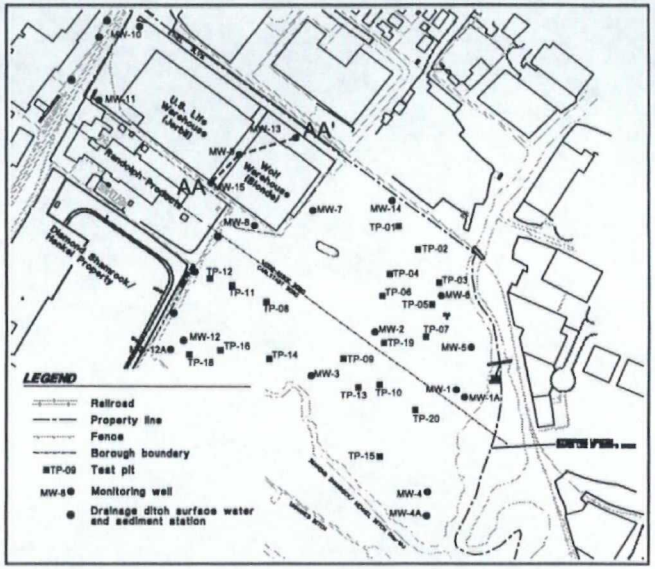


Figure N-1. Transect locations.

DRAFT

CB3N0503\TRANSECTBASE2.dwg 11/27/01 OR





Transect location AA - AA'

LEGEND

- FILL (composed of silt, clay and construction debris)
- Organic rich silt and peat
- Fine to coarse sand
- Fine-grained deposits (undifferentiated, primarily composed of clay and silt with fine sand)
- —0.5 Hg soil concentrations (mg/kg) from boreholes and test pits, shown at midpoint of sample composite interval
- ? Unknown
- Soil contact; dashed where inferred
- Cased interval
- Screen interval
- Groundwater surface December 1999 (approximate)

0 100 200 feet

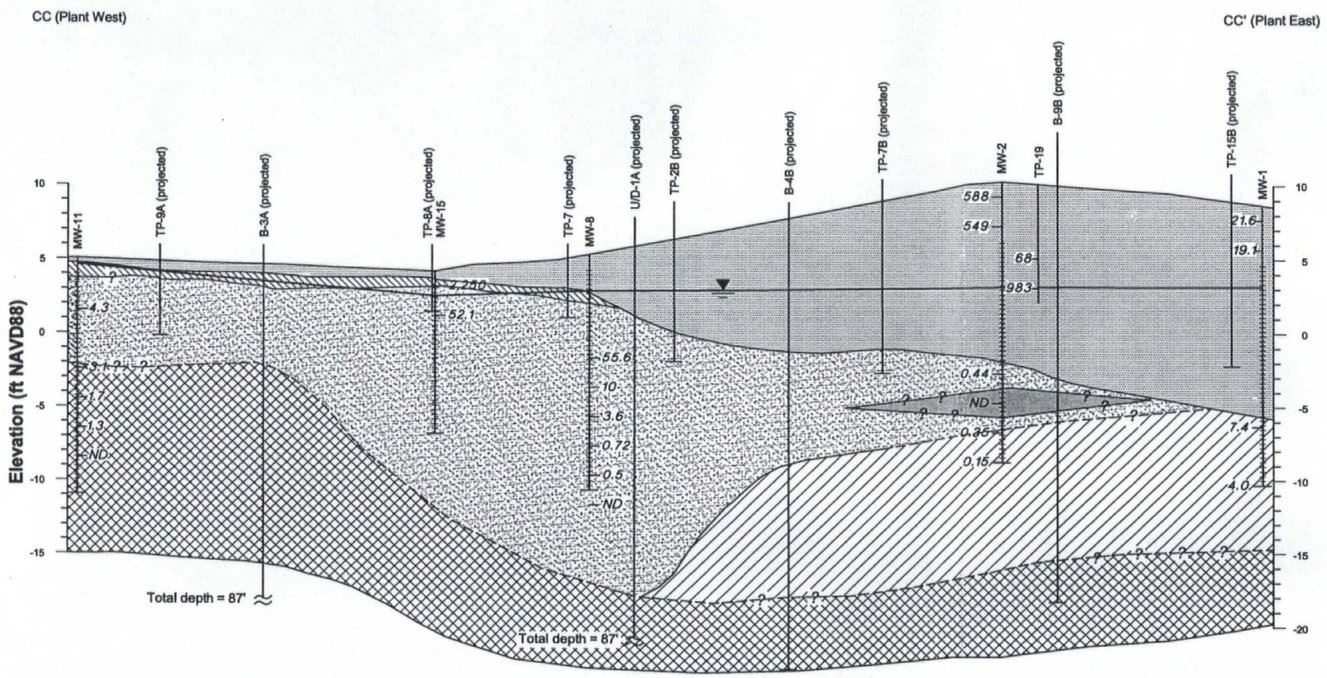
Note: Vertical scale is exaggerated 20x

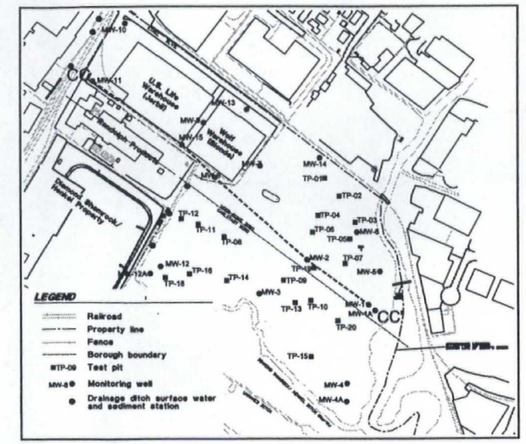
Exponent

Figure N-2. Cross section AA-AA'.

DRAFT

\\8600B3N\rev a-a'V2.dwg 11/28/01 OR





Transect location CC - CC'

0 150 300 feet

LEGEND

- FILL (composed of silt, clay and construction debris)
- Organic rich silt and peat
- Fine to coarse sand
- Fine-grained deposits (undifferentiated, primarily composed of clay and silt with fine sand)
- Varved clay and silt (as identified by Ward 1974, 1975)
- 0.5 Hg soil concentrations (mg/kg) from boreholes and test pits, shown at midpoint of sample composite interval
- Root fragments
- ? Unknown
- Soil contact; dashed where inferred
- Cased interval
- Screen interval
- Groundwater surface December 1999 (approximate)

0 100 200 feet

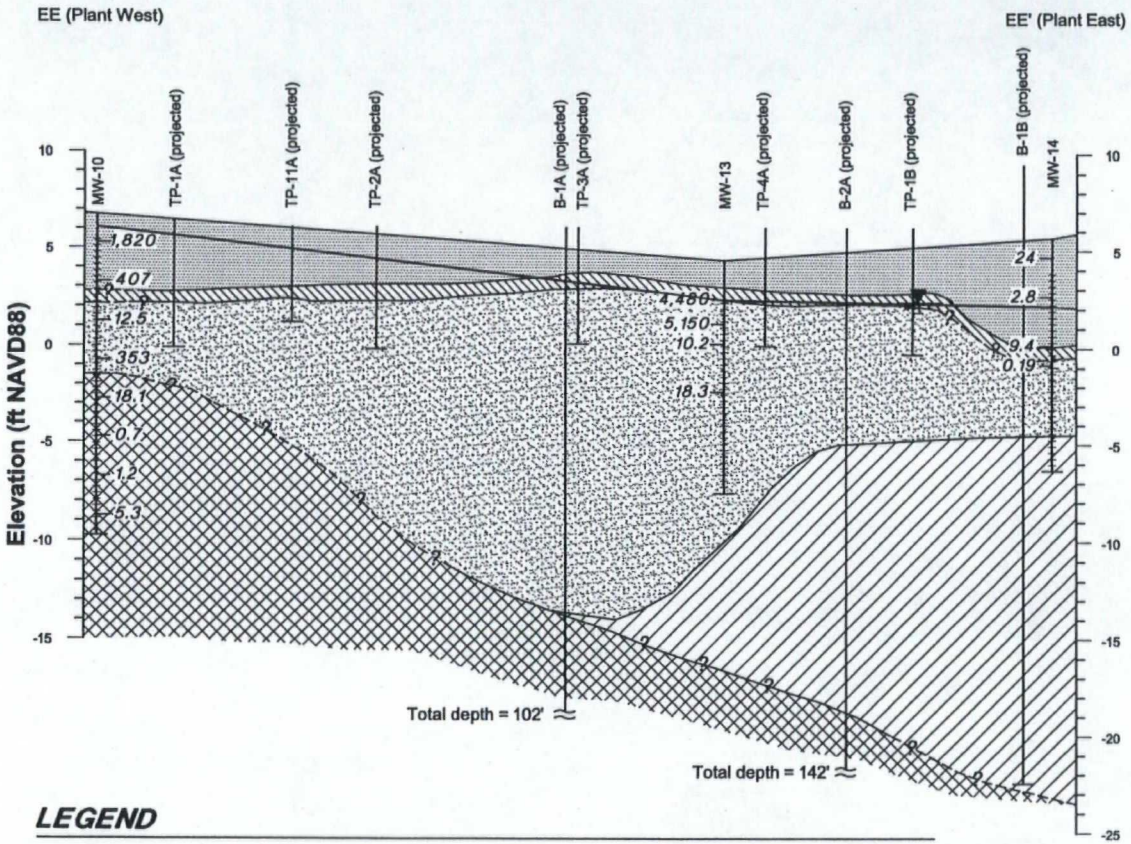
Note: Vertical scale is exaggerated 20x

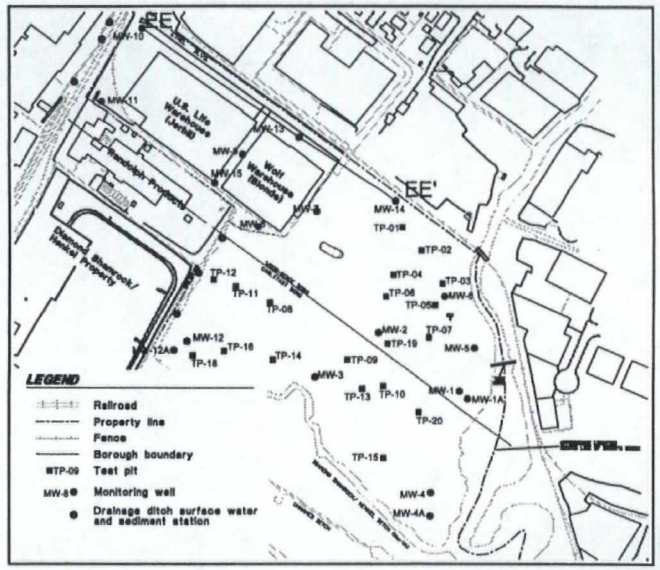
Exponent

DRAFT

Figure N-3. Cross section CC-CC'.

\\8600B3N\xs c-c'v2.dwg. 11/28/01 OR





Transect location EE - EE'

0 150 300 feet

LEGEND

- FILL (composed of silt, clay and construction debris)
- Organic rich silt and peat
- Fine to coarse sand
- Fine-grained deposits (undifferentiated, primarily composed of clay and silt with fine sand)
- Varved clay and silt (as identified by Ward 1974, 1975)
- —0.5 Hg soil concentrations (mg/kg) from boreholes and test pits, shown at midpoint of sample composite interval
- ? Unknown
- Soil contact; dashed where inferred
- Cased interval
- Screen interval
- Groundwater surface December 1999 (approximate)

0 100 200 feet

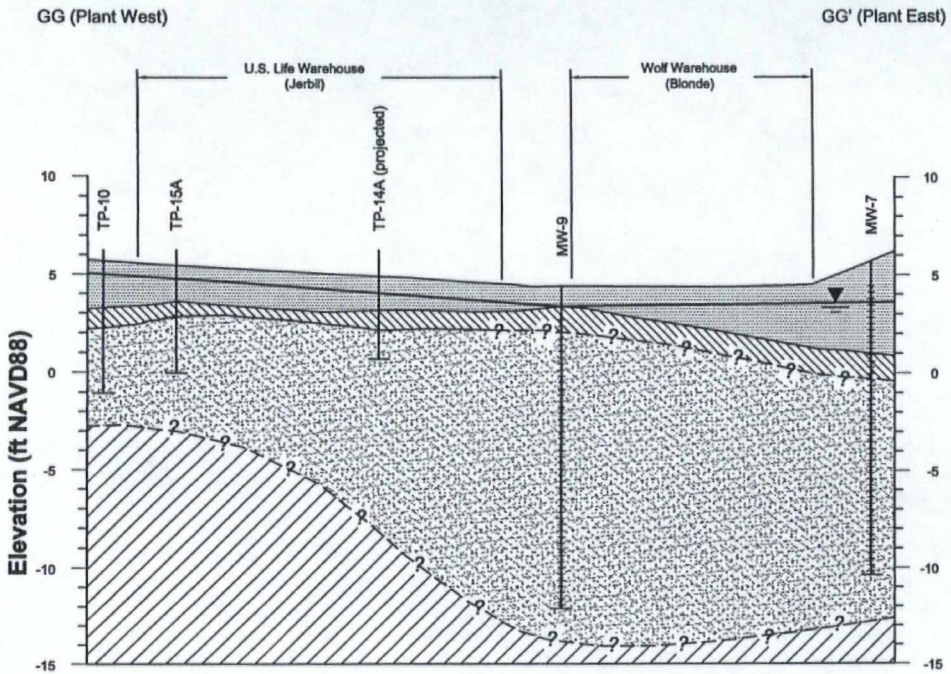
Note: Vertical scale is exaggerated 20x

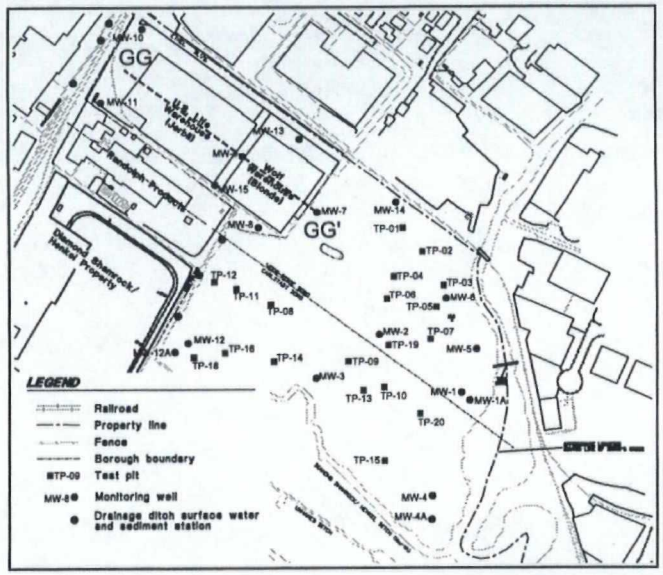
Exponent

Figure N-4. Cross section EE-EE'.

DRAFT

\\8600B3N\xs e-e'V2.dwg 11/28/01 OR





Transect location GG - GG'

0 150 300 feet

LEGEND

- FILL (composed of silt, clay and construction debris)
- Organic rich silt and peat
- Fine to coarse sand
- Fine-grained deposits (undifferentiated, primarily composed of clay and silt with fine sand)
- —0.5 Hg soil concentrations (mg/kg) from boreholes and test pits, shown at midpoint of sample composite interval
- ? Unknown
- Soil contact; dashed where inferred
- Cased interval
- Screen interval
- Groundwater surface December 1999 (approximate)

0 100 200 feet

Note: Vertical scale is exaggerated 20x

Exponent

Figure N-5. Cross section GG-GG'.

DRAFT

\\8600B3N\rev g-g'.dwg 11/28/01 OR