

Prepared for

Town of Huntington
Department of Environmental Control
100 Main Street
Huntington, New York 11788

On Behalf of

Cashin Associates, P.C.
1200 Veterans Memorial Highway
Hauppauge, New York 11788

FINAL REPORT
CONSTRUCTION QUALITY ASSURANCE
HUNTINGTON/EAST NORTHPORT LANDFILL
FINAL CLOSURE SYSTEM
SUFFOLK COUNTY, NEW YORK



Prepared by

GEOSYNTEC CONSULTANTS
1100 Lake Hearn Drive N.E., Suite 200
Atlanta, Georgia 30342
Project Number GQ3700



JULY 1996

VOLUME VI

Prepared for

Town of Huntington
Department of Environmental Control
100 Main Street
Huntington, New York 11788

On Behalf of **4 1996**

Cashin Associates, P.C.
1200 Veterans Memorial Highway
Hauppauge, New York 11788

FINAL REPORT
CONSTRUCTION QUALITY ASSURANCE
HUNTINGTON/EAST NORTHPORT LANDFILL
FINAL CLOSURE SYSTEM
SUFFOLK COUNTY, NEW YORK



Prepared by

GEOSYNTEC CONSULTANTS
1100 Lake Hearn Drive N.E., Suite 200
Atlanta, Georgia 30342
Project Number GQ3700



JULY 1996

VOLUME V

SUB APPENDIX I-4

DIRECT SHEAR

TEST RESULTS

**DIRECT SHEAR TEST RESULTS
TASK 02 - GEOTECHNICAL TESTING
TOWN OF HUNTINGTON/
EAST NORTHPORT LANDFILL
INTERIM REPORT NO. 1**

Performed For:

Cashin Associates, P.C.
1200 Veterans Memorial Highway
Hauppauge, NY 11788

Performed By:

J&L Testing Company, Inc.
938 South Central Avenue
Canonsburg, PA 15317

September 27, 1995
Job No.: 94S1790



J&L TESTING COMPANY, INC.

GEOTECHNICAL AND GEOSYNTHETICS MATERIALS TESTING AND RESEARCH

September 27, 1995

Job No.: 94S1790

Cashin Associates, P.C.
1200 Veterans Memorial Highway
Hauppauge, NY 11788

ATTN: Mr. James Gladysz, P.E.

RE: Direct Shear Test Results
TASK 02 - Geotechnical Testing
Town of Huntington/East Northport Landfill
INTERIM REPORT NO. 1

Dear Mr. Gladysz:

We are pleased to submit herein the interim report of geotechnical tests performed on samples from the Town of Huntington/East Northport Landfill. Testing included Direct Shear (ASTM D-3080). The samples tested are enclosed in this report. All tests were performed per ASTM protocols listed in your letters and in accordance with JLT's in-house QA/QC program.

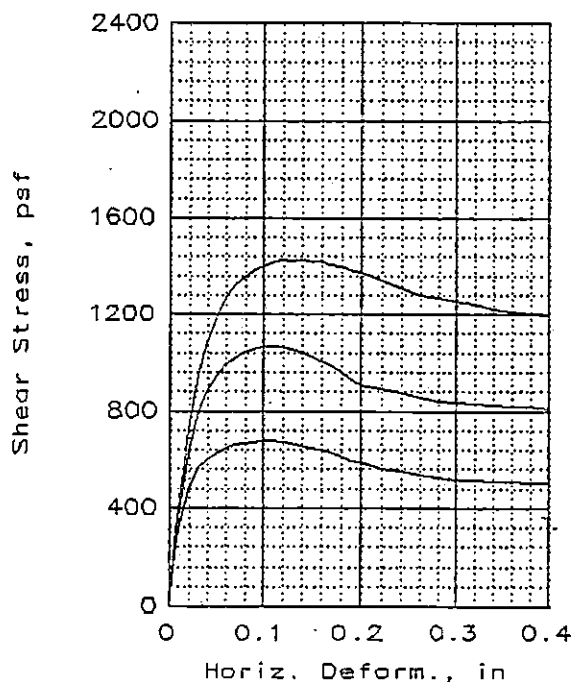
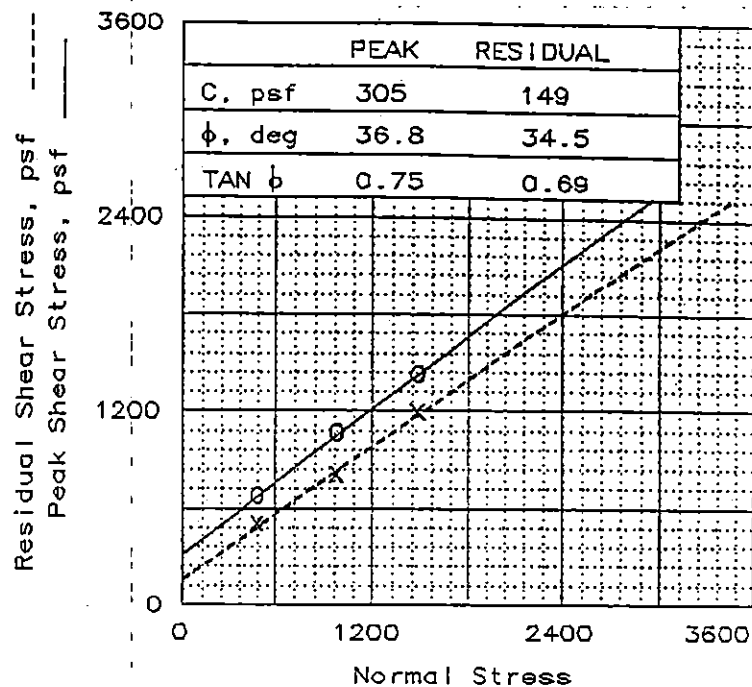
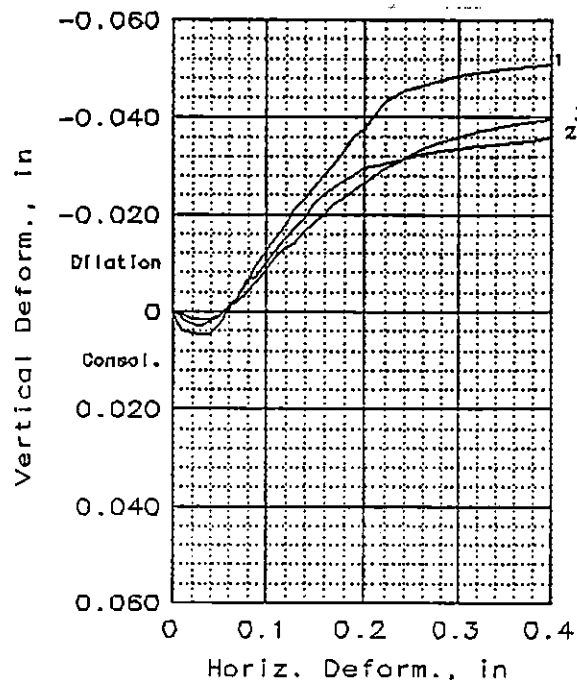
Should you have any questions or require additional information, please do not hesitate to call.

Sincerely,

J&L TESTING COMPANY, INC.

Mahiru Shettima, Ph.D., P.E.
Director

enclosure
(Cash.3)
MS/jlt



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	7.4	7.4	7.4
	DRY DENSITY, pcf	110.7	110.7	110.7
	SATURATION, %	39.7	39.7	39.7
	VOID RATIO	0.494	0.494	0.494
	SIDE LENGTH, in	4.00	4.00	4.00
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	7.4	7.4	7.4
	DRY DENSITY, pcf	110.7	110.7	110.7
	SATURATION, %	39.7	39.7	39.7
	VOID RATIO	0.494	0.494	0.494
	SIDE LENGTH, in	4.00	4.00	4.00
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		500	1000	1500
MAXIMUM SHEAR, psf		675	1064	1424
RESIDUAL SHEAR, psf		506	808	1194
Strain rate, in/min		0.010	0.010	0.010

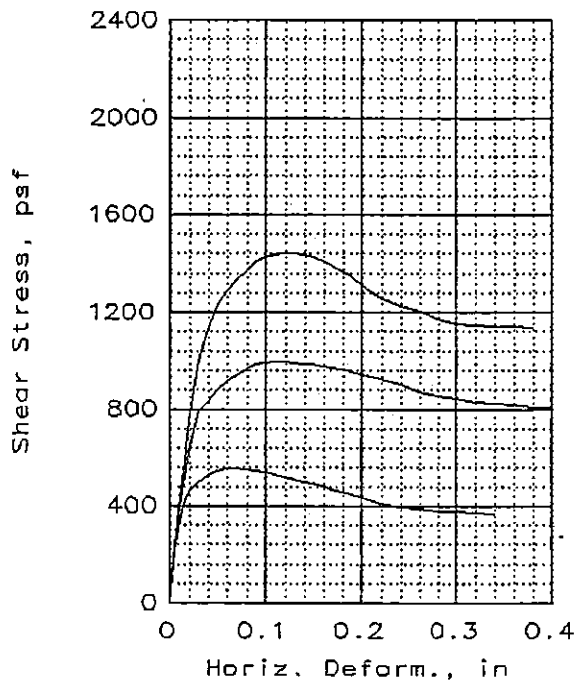
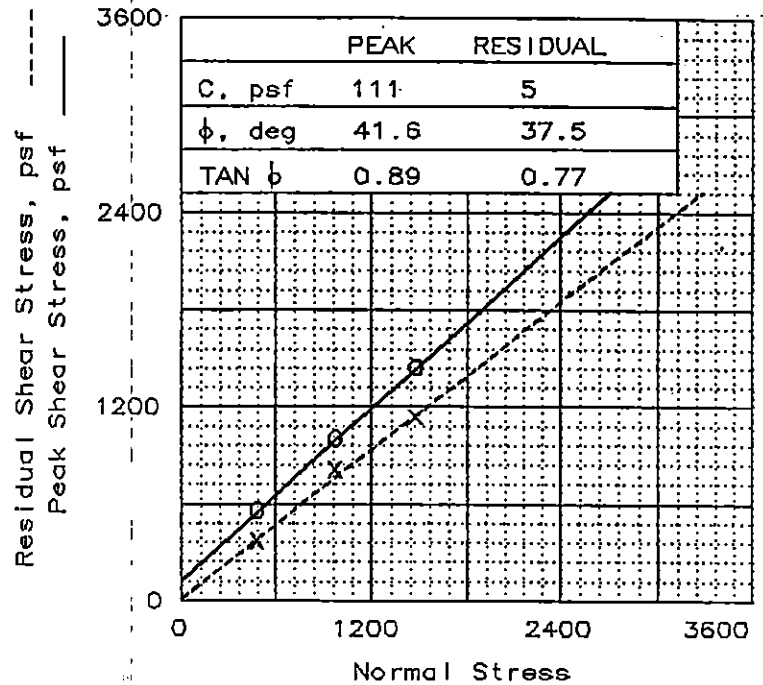
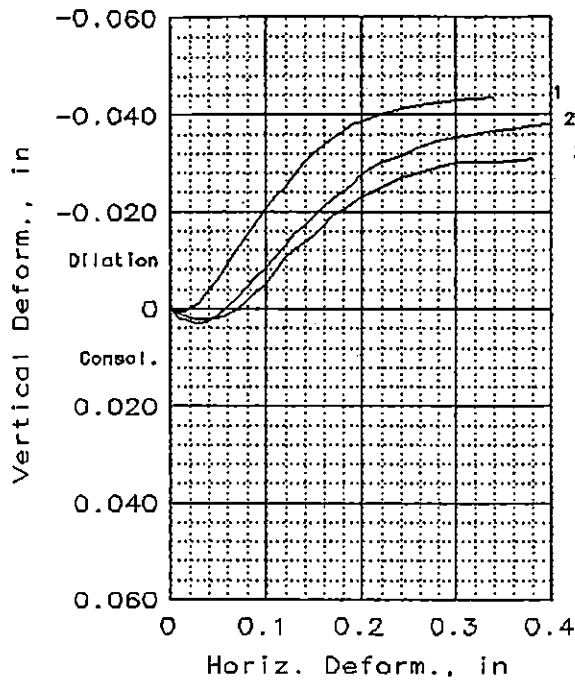
SAMPLE DATA
 SAMPLE TYPE: SELECT FILL
 DESCRIPTION: S-7, SELECT FILL
 LL= PL= PI=
 SPECIFIC GRAVITY= 2.65
 REMARKS: ASTM D-3080
 DIRECT SHEAR TEST
 DRY CONDITION

CLIENT: TOWN OF HUNTINGTON
 PROJECT: EAST NORTHPORT LANDFILL
 SAMPLE LOCATION:

PROJ. NO. 94S1749-01 DATE: 12-5-94

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.



SAMPLE NO		1	2	3
INITIAL	WATER CONTENT, %	7.4	7.4	7.4
	DRY DENSITY, pcf	110.7	110.7	110.7
	SATURATION, %	39.7	39.7	39.7
	VOID RATIO	0.494	0.494	0.494
	SIDE LENGTH, in	4.00	4.00	4.00
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	7.4	7.4	7.4
	DRY DENSITY, pcf	110.7	110.7	110.7
	SATURATION, %	39.7	39.7	39.7
	VOID RATIO	0.494	0.494	0.494
	SIDE LENGTH, in	4.00	4.00	4.00
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		500	1000	1500
MAXIMUM SHEAR, psf		555	998	1442
RESIDUAL SHEAR, psf		369	809	1136
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA
SAMPLE TYPE: SELECT FILL
DESCRIPTION: S-8, SELECT FILL

LL= PL= PI=
SPECIFIC GRAVITY= 2.65
REMARKS: ASTM D-3080
DIRECT SHEAR TEST
DRY CONDITION

CLIENT: TOWN OF HUNTINGTON

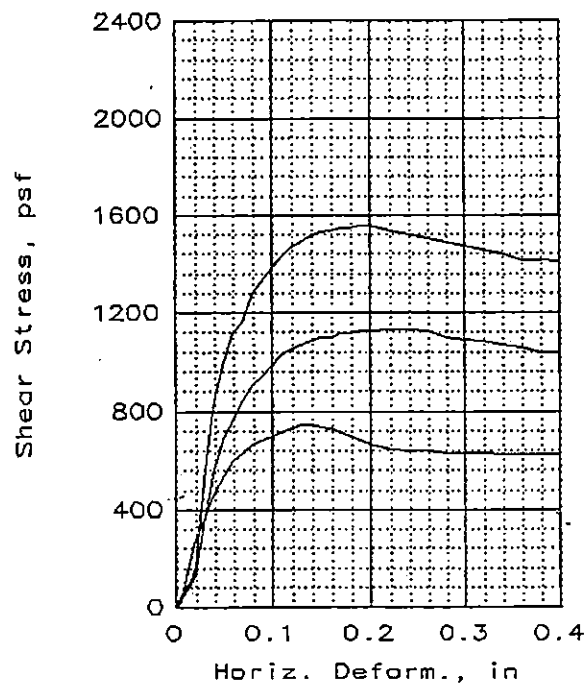
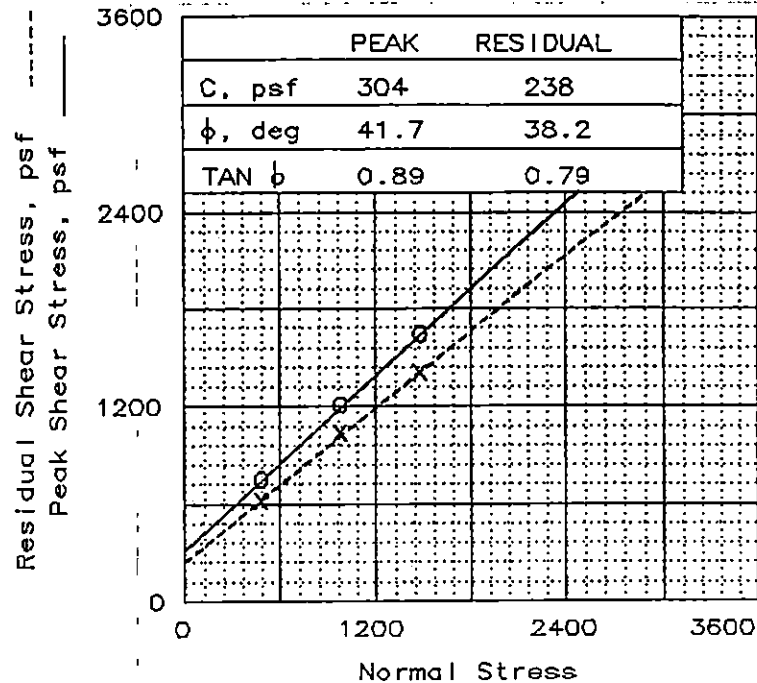
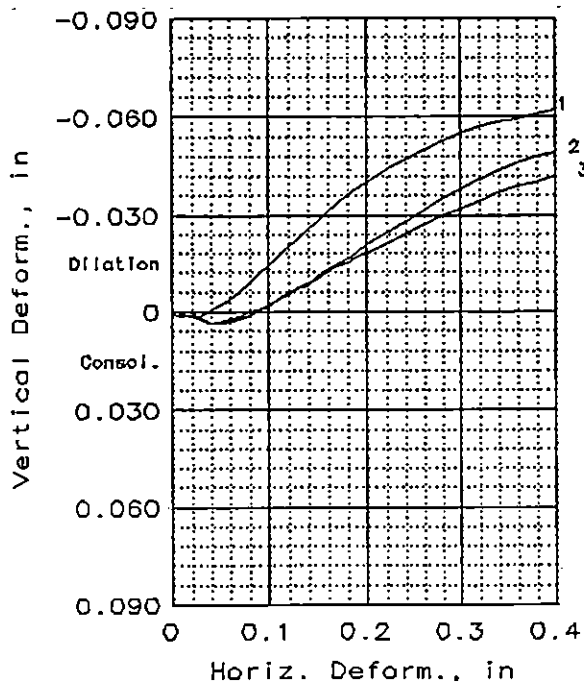
PROJECT: EAST NORTHPORT LANDFILL

SAMPLE LOCATION:

PROJ. NO. 94S1749-01 DATE: 12-5-94

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	8.5	8.5	8.5
	DRY DENSITY, pcf	116.0	116.0	116.0
	SATURATION, %	52.8	52.8	52.8
	VOID RATIO	0.426	0.426	0.426
	SIDE LENGTH, in	4.00	4.00	4.00
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	8.5	8.5	8.5
	DRY DENSITY, pcf	116.0	116.0	116.0
	SATURATION, %	52.8	52.8	52.8
	VOID RATIO	0.426	0.426	0.426
	SIDE LENGTH, in	4.00	4.00	4.00
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		500	1000	1500
MAXIMUM SHEAR, psf		745	1206	1637
RESIDUAL SHEAR, psf		624	1037	1409
Strain rate, in/min		0.010	0.010	1.000

SAMPLE DATA

SAMPLE TYPE: SELECT FILL
DESCRIPTION: S-14, SELECT FILL

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS: ASTM D-3080

DIRECT SHEAR TEST
DRY CONDITION

CLIENT: TOWN OF HUNTINGTON

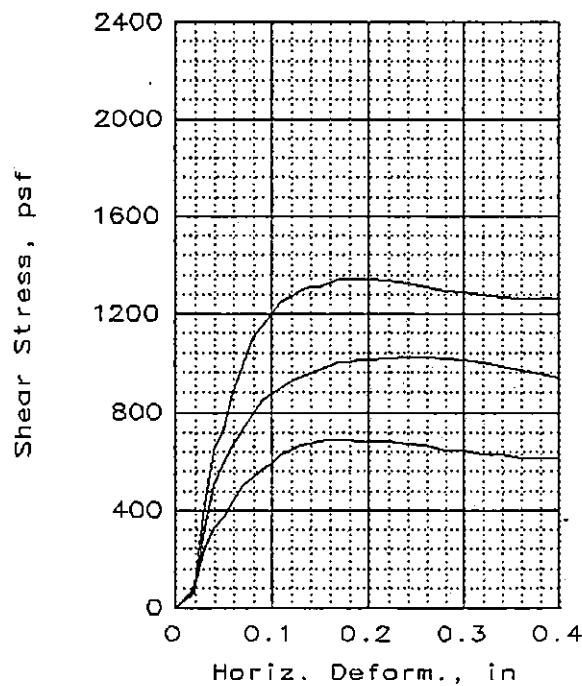
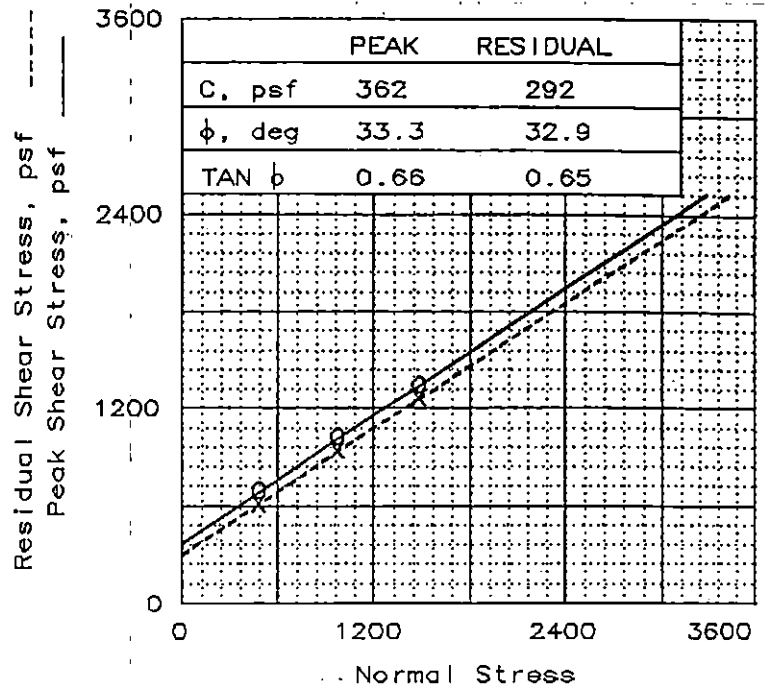
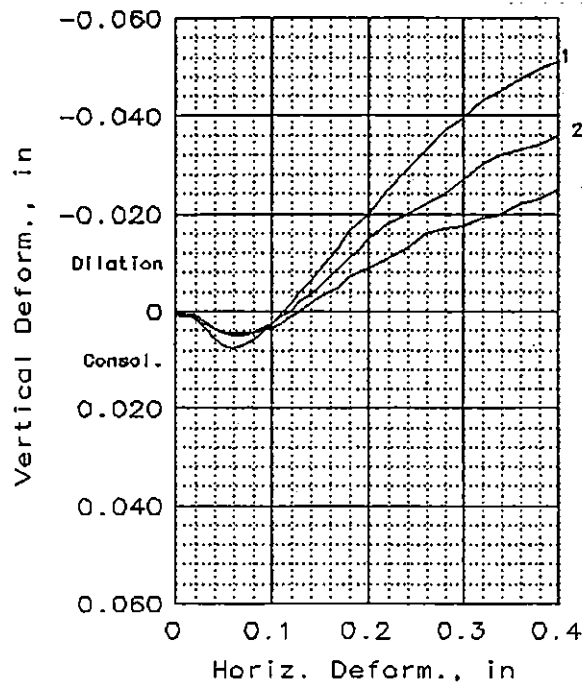
PROJECT: EAST NORTHPORT LANDFILL

SAMPLE LOCATION:

PROJ. NO.: 94S1749-01 DATE: 4-13-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	9.5	9.5	9.5
	DRY DENSITY, pcf	113.4	113.4	113.4
	SATURATION, %	54.9	54.9	54.9
	VOID RATIO	0.459	0.459	0.459
	SIDE LENGTH, in	4.00	4.00	4.00
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	9.5	9.5	9.5
	DRY DENSITY, pcf	113.4	113.4	113.4
	SATURATION, %	54.9	54.9	54.9
	VOID RATIO	0.459	0.459	0.459
	SIDE LENGTH, in	4.00	4.00	4.00
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		500	1000	1500
MAXIMUM SHEAR, psf		689	1021	1345
RESIDUAL SHEAR, psf		616	940	1264
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA

SAMPLE TYPE: SELECT FILL
DESCRIPTION: S-15, SELECT FILL

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS: ASTM D-3080

DIRECT SHEAR TEST
DRY CONDITION

CLIENT: TOWN OF HUNTINGTON

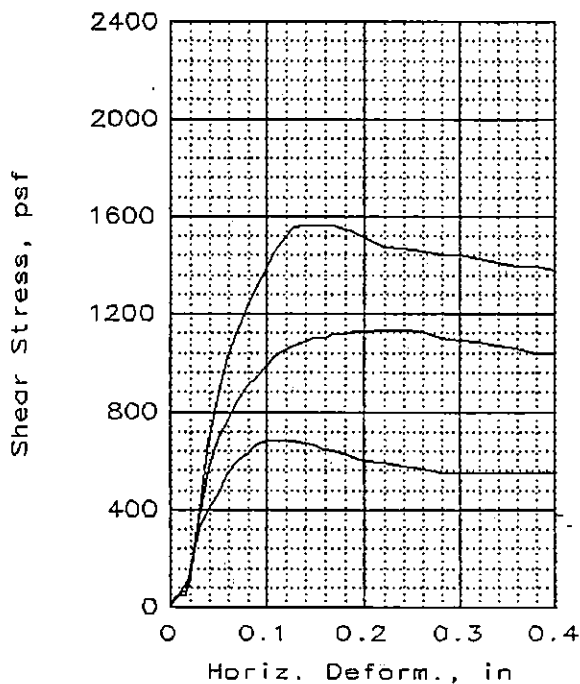
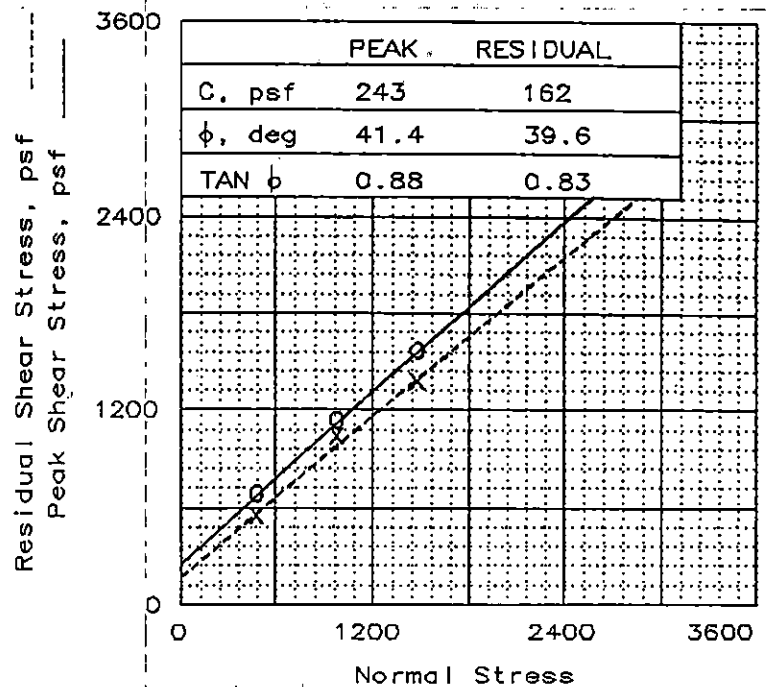
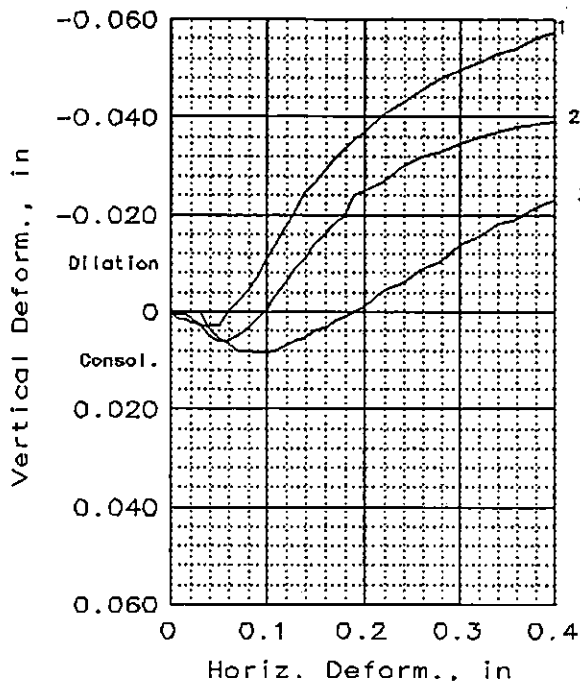
PROJECT: EAST NORTHPORT LANDFILL

SAMPLE LOCATION:

PROJ. NO.: 94S1749-01 DATE: 4-13-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	9.4	9.4	9.4
	DRY DENSITY, pcf	114.9	114.9	114.9
	SATURATION, %	56.6	56.6	56.6
	VOID RATIO	0.440	0.440	0.440
	SIDE LENGTH, in	4.00	4.00	4.00
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	9.4	9.4	9.4
	DRY DENSITY, pcf	114.9	114.9	114.9
	SATURATION, %	56.6	56.6	56.6
	VOID RATIO	0.440	0.440	0.440
	SIDE LENGTH, in	4.00	4.00	4.00
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		500	1000	1500
MAXIMUM SHEAR, psf		680	1134	1563
RESIDUAL SHEAR, psf		551	1037	1377
Strain rate, in/min		0.010	0.010	1.000

SAMPLE DATA

SAMPLE TYPE: SELECT FILL
DESCRIPTION: S-16, SELECT FILL

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS: ASTM D-3080

DIRECT SHEAR TEST
DRY CONDITION

FIG. NO. 1

CLIENT: TOWN OF HUNTINGTON

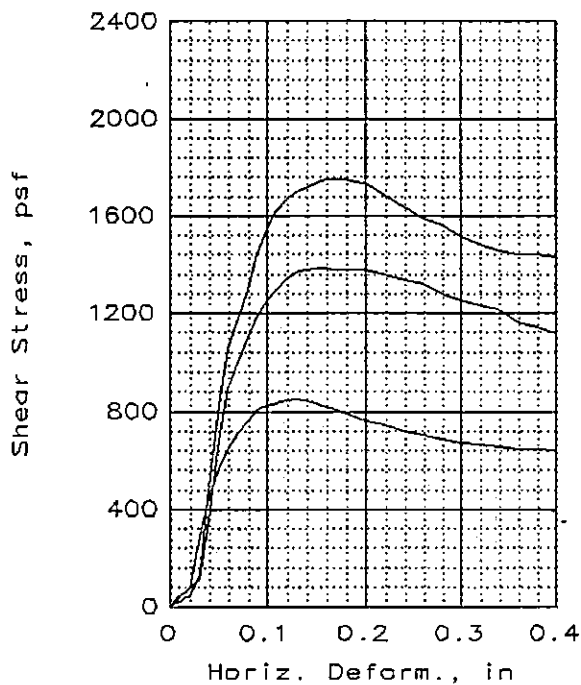
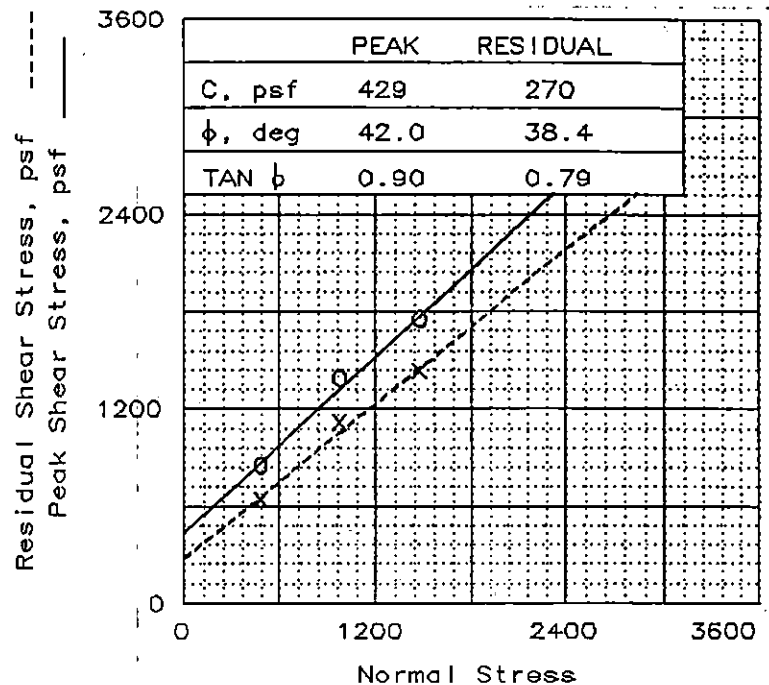
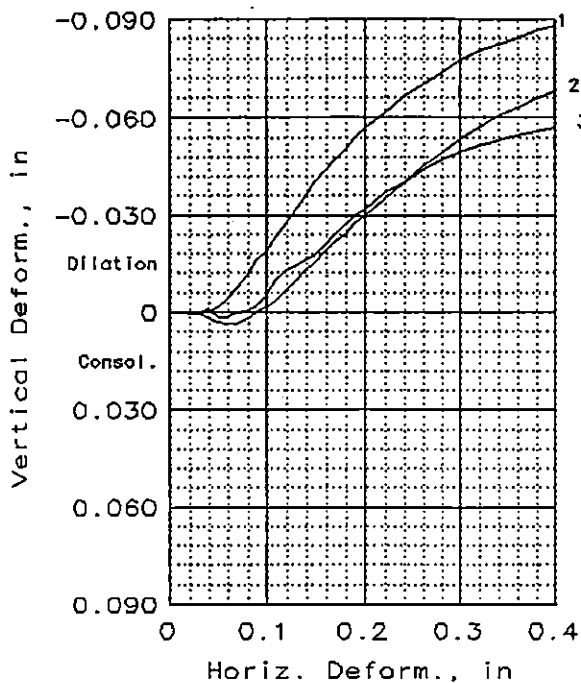
PROJECT: EAST NORTHPORT LANDFILL

SAMPLE LOCATION:

PROJ. NO.: 94S1749-01 DATE: 4-17-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	9.3	9.3	9.3
	DRY DENSITY, pcf	119.0	119.0	119.0
	SATURATION, %	63.1	63.1	63.1
	VOID RATIO	0.391	0.391	0.391
	SIDE LENGTH, in	4.00	4.00	4.00
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	9.3	9.3	9.3
	DRY DENSITY, pcf	119.0	119.0	119.0
	SATURATION, %	63.1	63.1	63.1
	VOID RATIO	0.391	0.391	0.391
	SIDE LENGTH, in	4.00	4.00	4.00
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		500	1000	1500
MAXIMUM SHEAR, psf		851	1385	1750
RESIDUAL SHEAR, psf		640	1118	1434
Strain rate, in/min		0.010	0.010	1.000

SAMPLE DATA

SAMPLE TYPE: SELECT FILL
DESCRIPTION: S-17, SELECT FILL

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS: ASTM D-3080

DIRECT SHEAR TEST
DRY CONDITION

CLIENT: TOWN OF HUNTINGTON

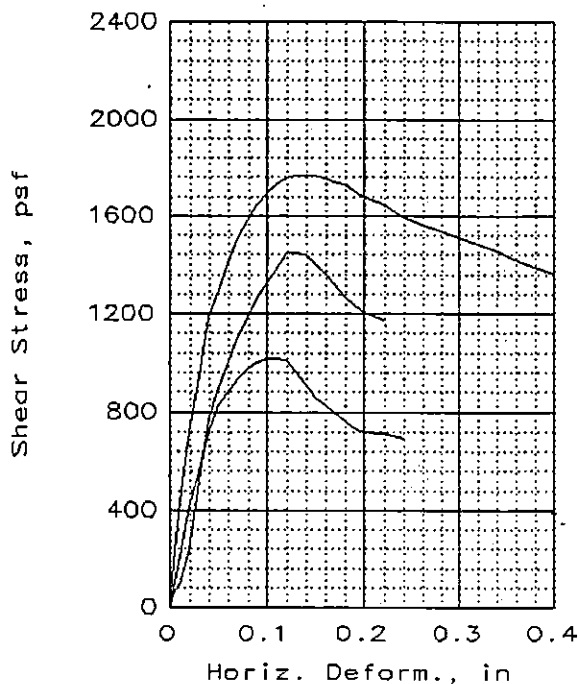
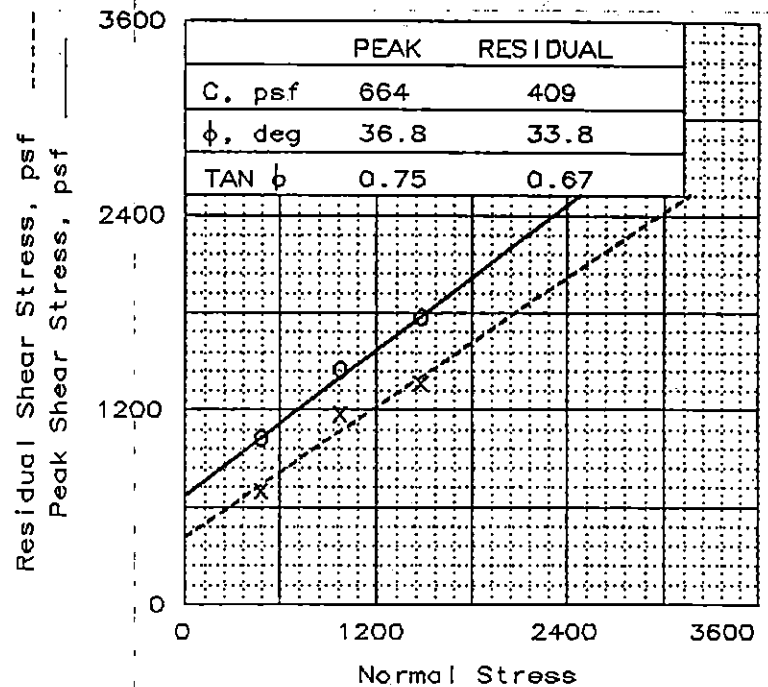
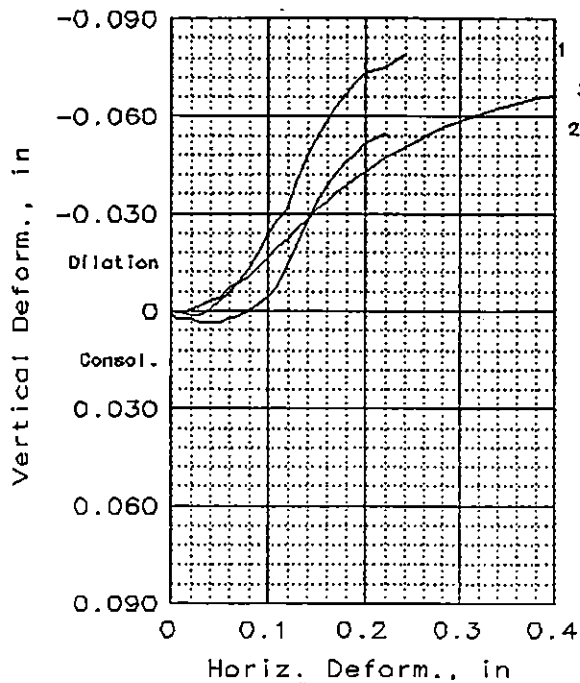
PROJECT: EAST NORTHPORT LANDFILL

SAMPLE LOCATION:

PROJ. NO.: 94S1749-01 DATE: 4-26-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	8.1	8.1	8.1
	DRY DENSITY, pcf	116.2	116.2	116.2
	SATURATION, %	50.6	50.6	50.6
	VOID RATIO	0.424	0.424	0.424
	SIDE LENGTH, in	4.00	4.00	4.00
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	8.1	8.1	8.1
	DRY DENSITY, pcf	116.2	116.2	116.2
	SATURATION, %	50.6	50.6	50.6
	VOID RATIO	0.424	0.424	0.424
	SIDE LENGTH, in	4.00	4.00	4.00
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf.		500	1000	1500
MAXIMUM SHEAR, psf		1020	1446	1767
RESIDUAL SHEAR, psf		695	1174	1363
Strain rate, in/min		0.010	0.010	1.000

SAMPLE DATA

SAMPLE TYPE: SELECT FILL

DESCRIPTION: S-18A, SELECT FILL

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS: ASTM D-3080

DIRECT SHEAR TEST

DRY CONDITION

FIG. NO. 18A

CLIENT: TOWN OF HUNTINGTON

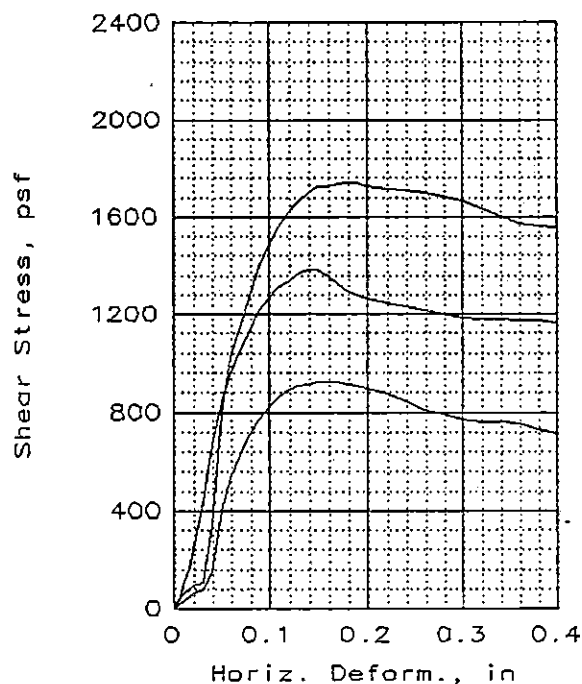
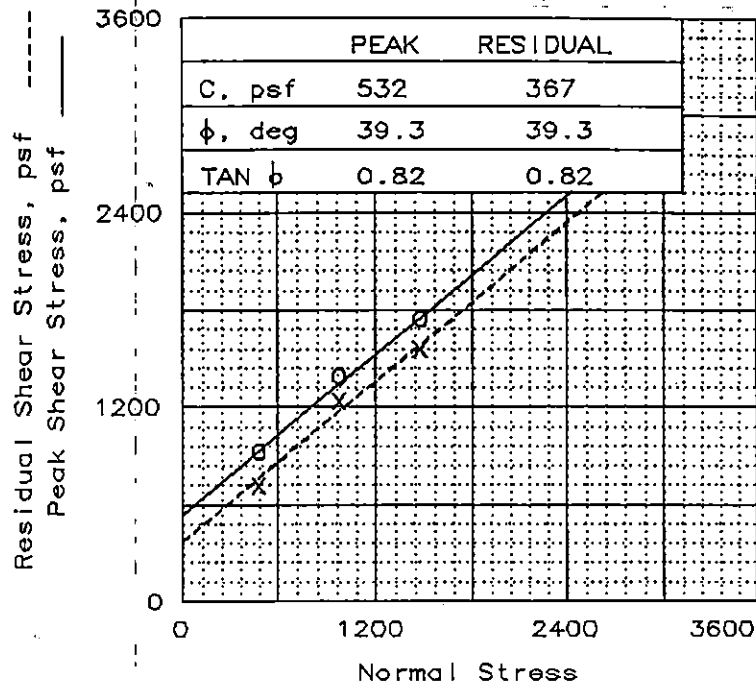
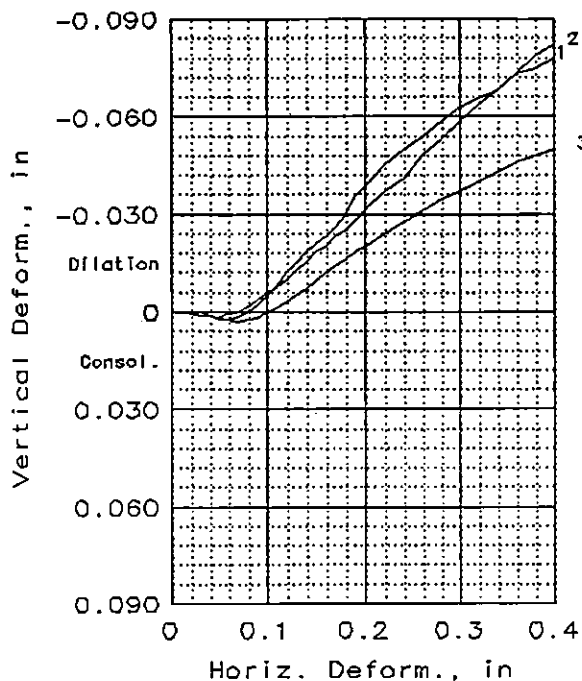
PROJECT: EAST NORTHPORT LANDFILL

SAMPLE LOCATION:

PROJ. NO.: 94S1749-01 DATE: 5-5-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	8.9	8.9	8.9
	DRY DENSITY, pcf	113.8	113.8	113.8
	SATURATION, %	52.0	52.0	52.0
	VOID RATIO	0.453	0.453	0.453
	SIDE LENGTH, in	4.00	4.00	4.00
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	8.9	8.9	8.9
	DRY DENSITY, pcf	113.8	113.8	113.8
	SATURATION, %	52.0	52.0	52.0
	VOID RATIO	0.453	0.453	0.453
	SIDE LENGTH, in	4.00	4.00	4.00
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		500	1000	1500
MAXIMUM SHEAR, psf		923	1385	1742
RESIDUAL SHEAR, psf		713	1231	1555
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA

SAMPLE TYPE: SELECT FILL
DESCRIPTION: S-19, SELECT FILL

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS: ASTM D-3080

DIRECT SHEAR TEST
DRY CONDITION

CLIENT: TOWN OF HUNTINGTON

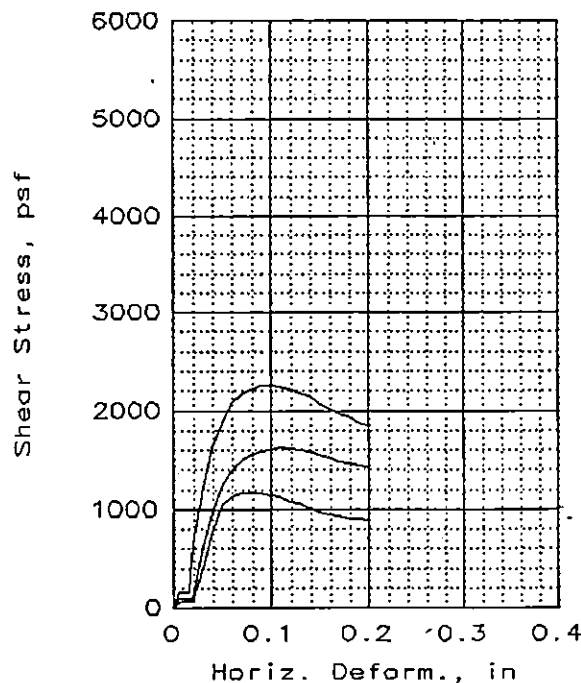
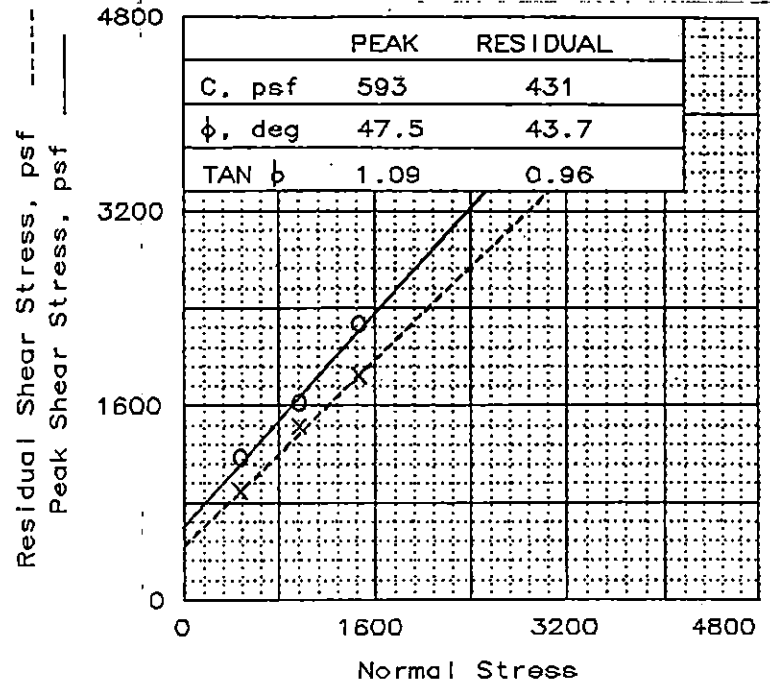
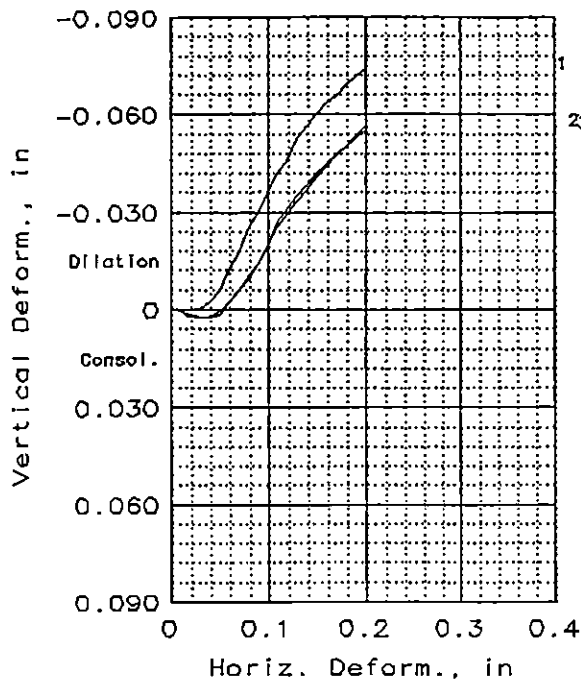
PROJECT: EAST NORTHPORT LANDFILL

SAMPLE LOCATION:

PROJ. NO.: 94S1749-01 DATE: 4-26-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	9.9	9.9	9.9
	DRY DENSITY, pcf	114.3	114.3	114.3
	SATURATION, %	58.6	58.6	58.6
	VOID RATIO	0.448	0.448	0.448
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	9.9	9.9	9.9
	DRY DENSITY, pcf	114.3	114.3	114.3
	SATURATION, %	58.6	58.6	58.6
	VOID RATIO	0.448	0.448	0.448
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		500	1000	1500
MAXIMUM SHEAR, psf		1171	1621	2262
RESIDUAL SHEAR, psf		889	1429	1846
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA
 SAMPLE TYPE: SELECT FILL
 DESCRIPTION: S-20A, SELECT FILL
 LL= PL= PI=
 SPECIFIC GRAVITY= 2.65
 REMARKS: ASTM D-3080
 DIRECT SHEAR TEST
 DRY CONDITION

CLIENT: TOWN OF HUNTINGTON

PROJECT: EAST NORTHPORT LANDFILL

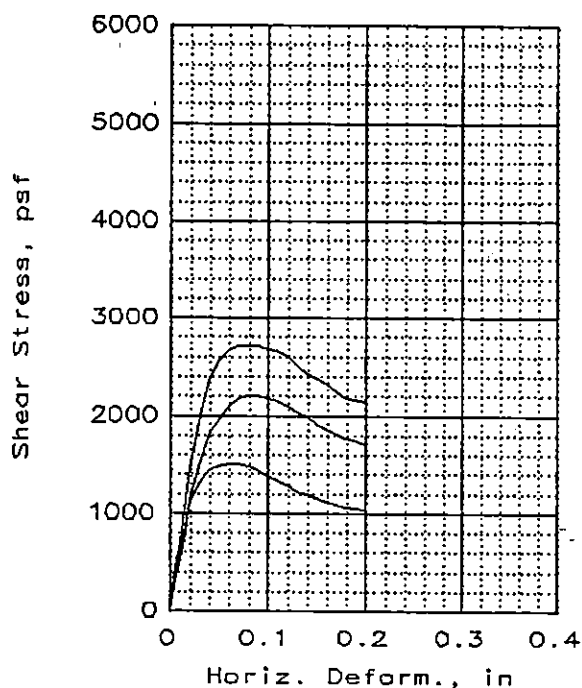
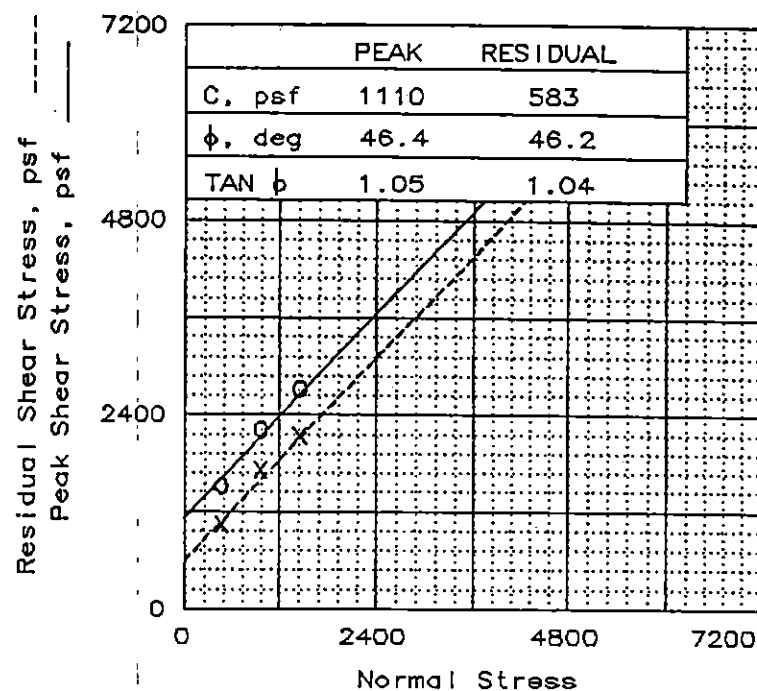
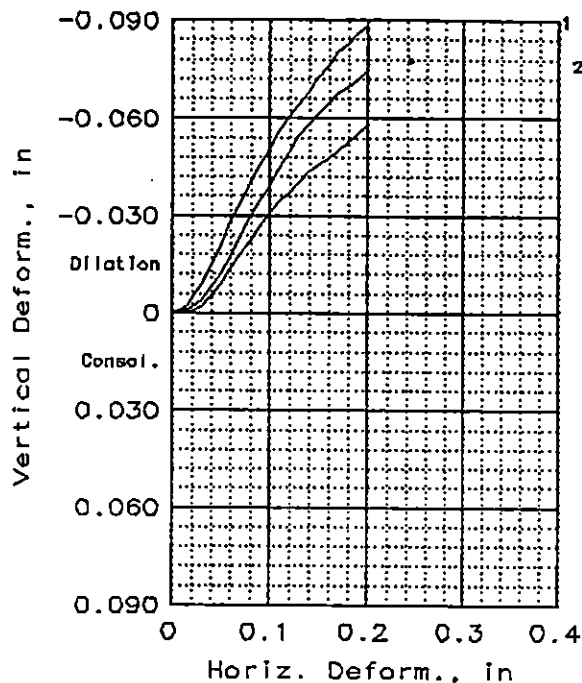
SAMPLE LOCATION:

PROJ. NO.: 94S1749-01 DATE: 5-5-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.

FIG. NO. 20A



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	7.6	7.6	7.6
	DRY DENSITY, pcf	118.7	118.7	118.7
	SATURATION, %	51.2	51.2	51.2
	VOID RATIO	0.393	0.393	0.393
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	7.6	7.6	7.6
	DRY DENSITY, pcf	118.7	118.7	118.7
	SATURATION, %	51.2	51.2	51.2
	VOID RATIO	0.393	0.393	0.393
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		500	1000	1500
MAXIMUM SHEAR, psf		1508	2206	2712
RESIDUAL SHEAR, psf		1035	1711	2138
Strain rate, in/min		0.010	0.010	1.000

SAMPLE DATA
 SAMPLE TYPE: SELECT FILL
 DESCRIPTION: S-22, SELECT FILL
 LL= PL= PI=
 SPECIFIC GRAVITY= 2.65
 REMARKS: ASTM D-3080
 DIRECT SHEAR TEST
 DRY CONDITION

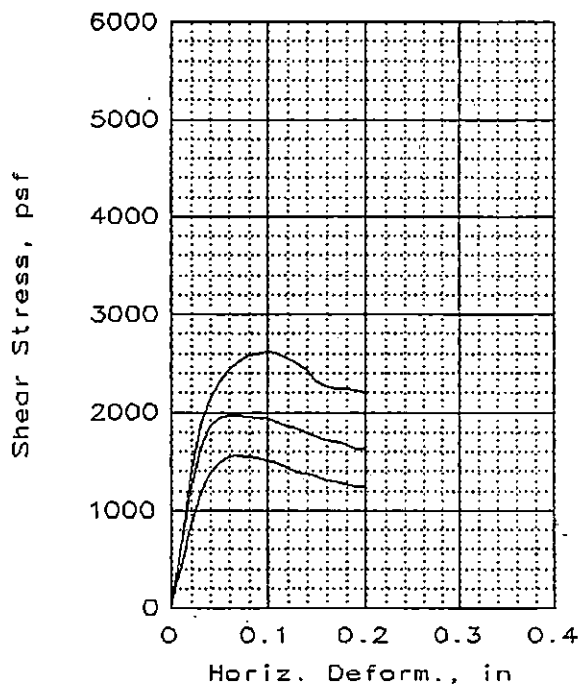
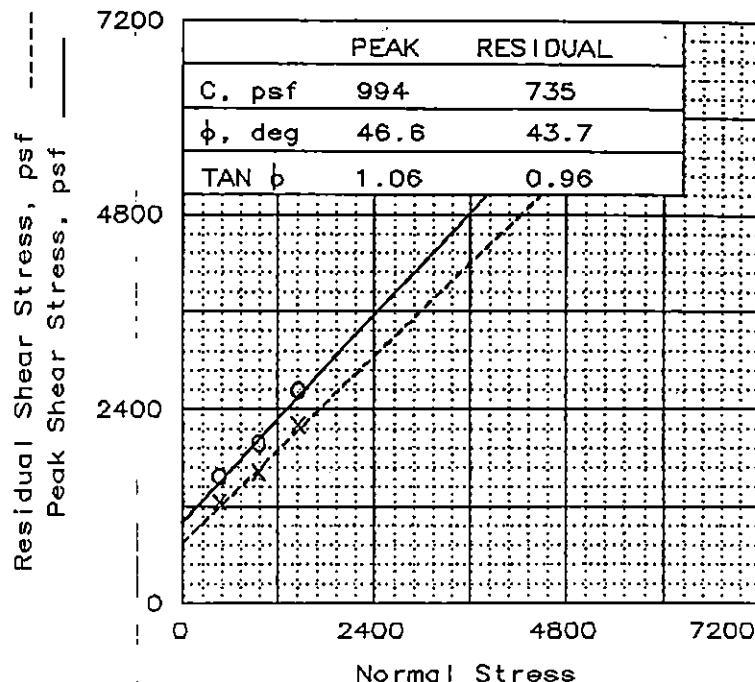
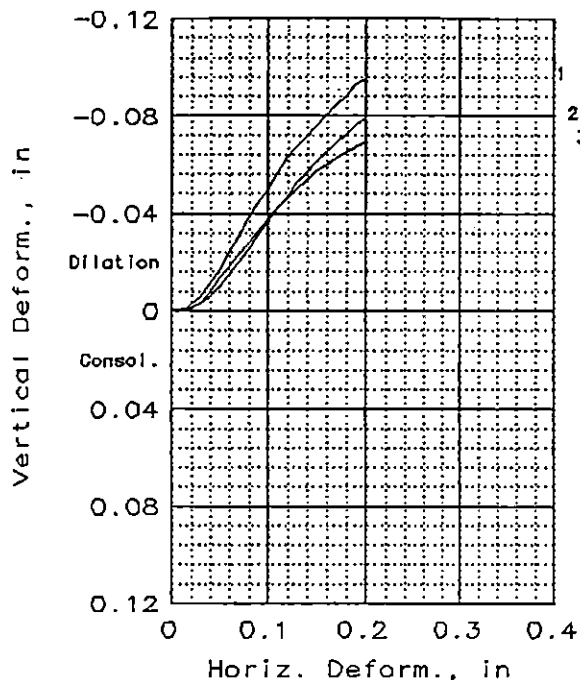
CLIENT: TOWN OF HUNTINGTON
 PROJECT: EAST NORTHPORT LANDFILL
 SAMPLE LOCATION: S-22, SELECT FILL

PROJ. NO.: 94S1749-01 DATE: 5-12-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.

FIG. NO. S-22



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	6.9	6.9	6.9
	DRY DENSITY, pcf	119.3	119.3	119.3
	SATURATION, %	47.2	47.2	47.2
	VOID RATIO	0.387	0.387	0.387
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	6.9	6.9	6.9
	DRY DENSITY, pcf	119.3	119.3	119.3
	SATURATION, %	47.2	47.2	47.2
	VOID RATIO	0.387	0.387	0.387
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		500	1000	1500
MAXIMUM SHEAR, psf		1564	1970	2622
RESIDUAL SHEAR, psf		1249	1621	2206
Strain rate, in/min		0.010	0.010	1.000

SAMPLE DATA
 SAMPLE TYPE: SELECT FILL
 DESCRIPTION: S-23, SELECT FILL
 LL= PL= PI=
 SPECIFIC GRAVITY= 2.65
 REMARKS: ASTM D-3080
 DIRECT SHEAR TEST
 DRY CONDITION

FIG. NO. S-23

CLIENT: TOWN OF HUNTINGTON

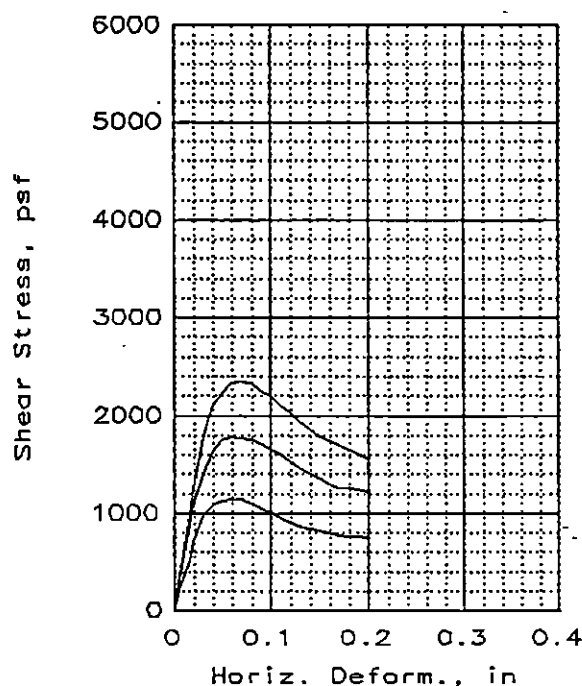
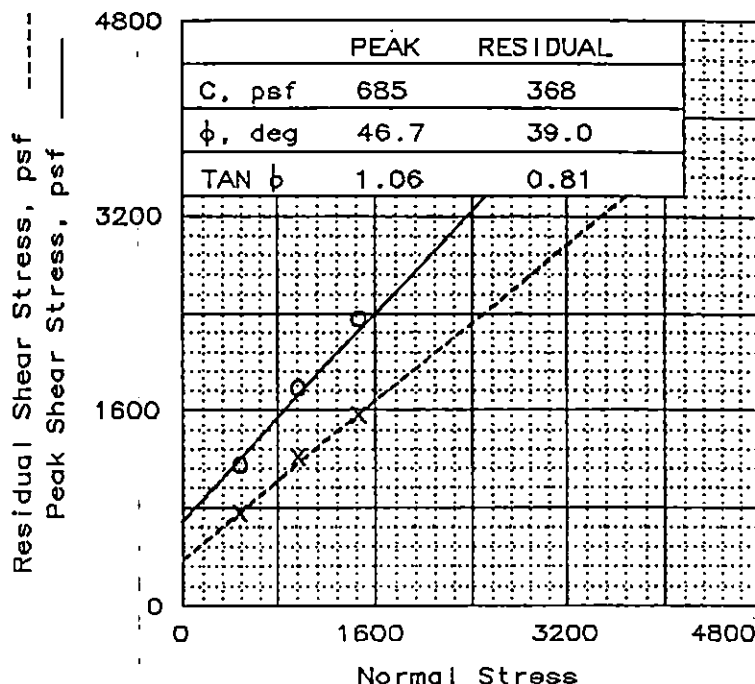
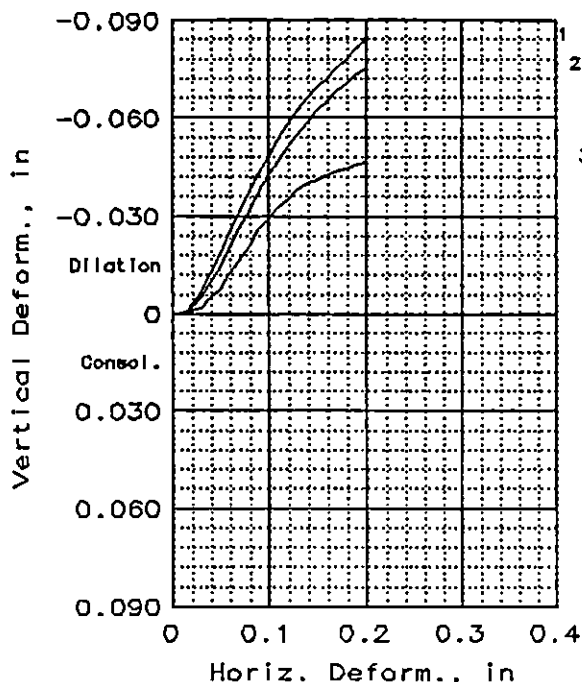
PROJECT: EAST NORTHPORT LANDFILL

SAMPLE LOCATION: S-23, SELECT FILL

PROJ. NO.: 94S1749-01 DATE: 5-15-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	8.3	8.3	8.3
	DRY DENSITY, pcf	117.8	117.8	117.8
	SATURATION, %	54.4	54.4	54.4
	VOID RATIO	0.404	0.404	0.404
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	8.3	8.3	8.3
	DRY DENSITY, pcf	117.8	117.8	117.8
	SATURATION, %	54.4	54.4	54.4
	VOID RATIO	0.404	0.404	0.404
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		500	1000	1500
MAXIMUM SHEAR, psf		1148	1778	2352
RESIDUAL SHEAR, psf		754	1216	1564
Strain rate, in/min		0.010	0.010	1.000

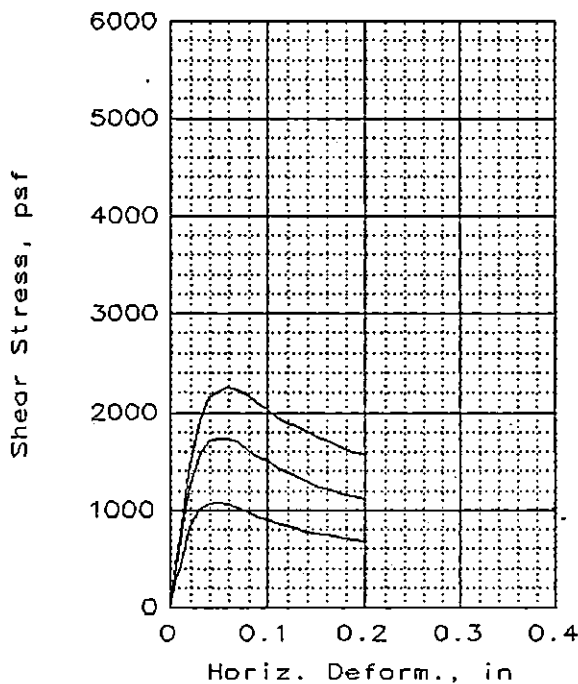
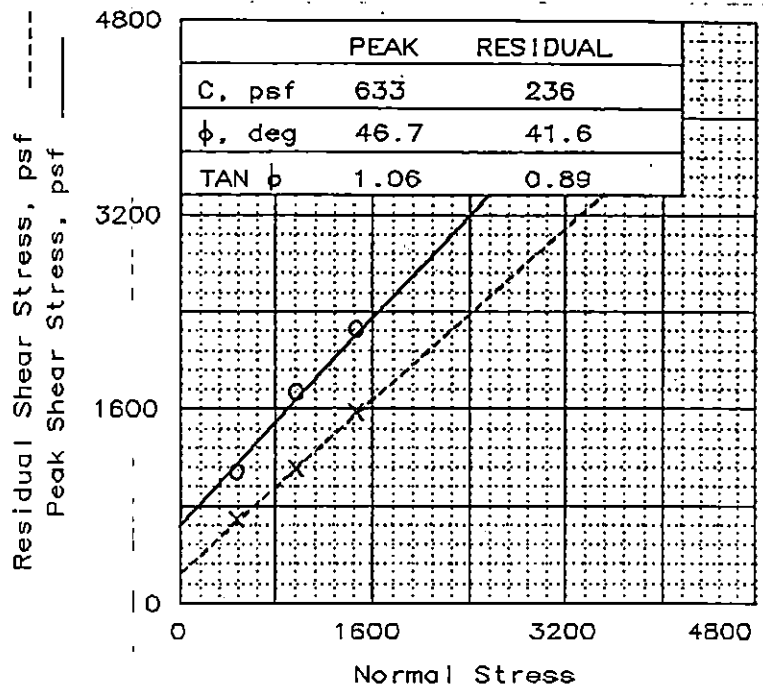
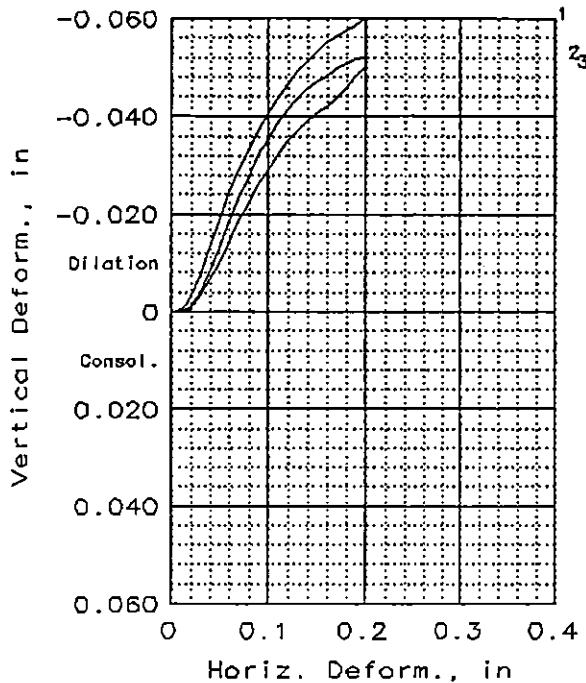
SAMPLE DATA
 SAMPLE TYPE: SELECT FILL
 DESCRIPTION: S-24, SELECT FILL
 LL= PL= PI=
 SPECIFIC GRAVITY= 2.65
 REMARKS: ASTM D-3080
 DIRECT SHEAR TEST
 DRY CONDITION

FIG. NO. S-24

CLIENT: TOWN OF HUNTINGTON
 PROJECT: EAST NORTHPORT LANDFILL
 SAMPLE LOCATION: S-24, SELECT FILL
 PROJ. NO.: 94S1749-01 DATE: 5-11-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	8.6	8.6	8.6
	DRY DENSITY, pcf	112.1	112.1	112.1
	SATURATION, %	48.0	48.0	48.0
	VOID RATIO	0.475	0.475	0.475
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	8.6	8.6	8.6
	DRY DENSITY, pcf	112.1	112.1	112.1
	SATURATION, %	48.0	48.0	48.0
	VOID RATIO	0.475	0.475	0.475
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		500	1000	1500
MAXIMUM SHEAR, psf		1080	1733	2251
RESIDUAL SHEAR, psf		687	1114	1576
Strain rate, in/min		0.010	0.010	1.000

SAMPLE DATA
 SAMPLE TYPE: SELECT FILL
 DESCRIPTION: S-25, SELECT FILL
 LL= PL= PI=
 SPECIFIC GRAVITY= 2.65
 REMARKS: ASTM D-3080
 DIRECT SHEAR TEST
 DRY CONDITION

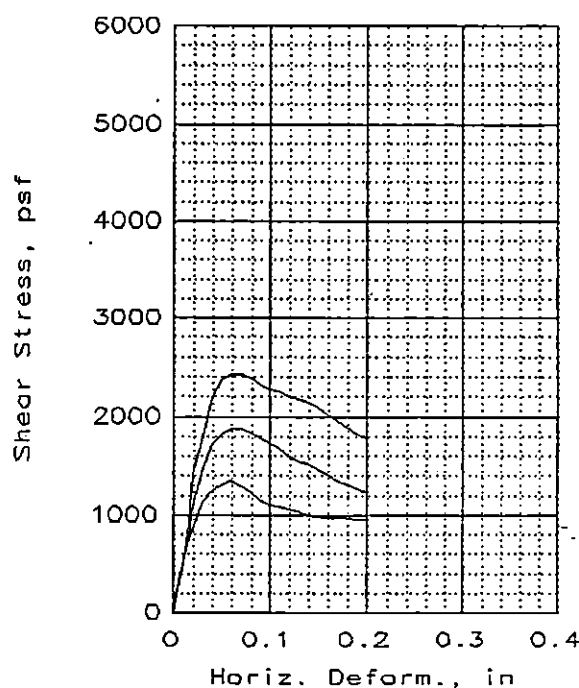
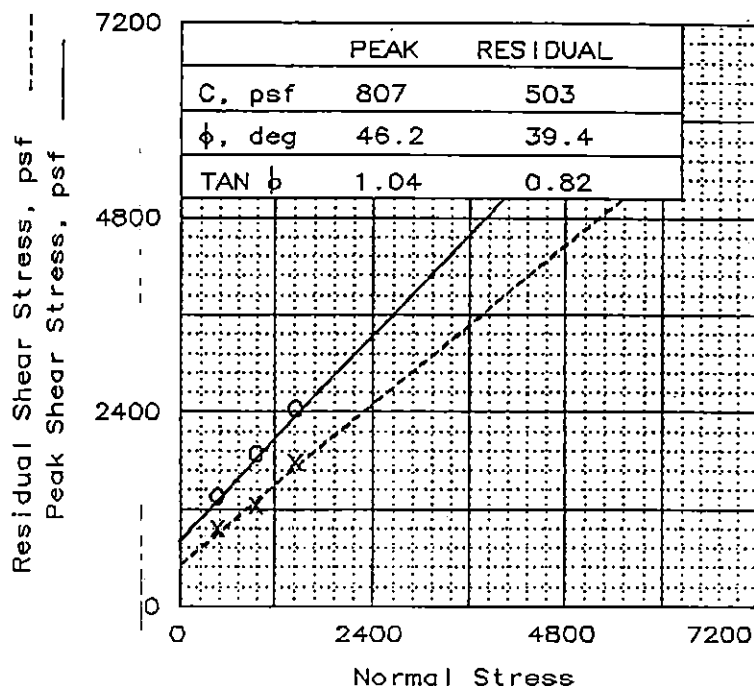
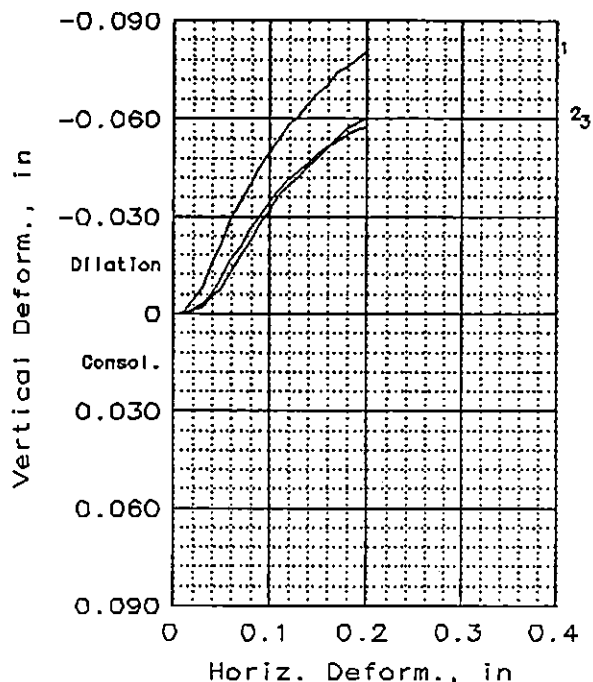
CLIENT: TOWN OF HUNTINGTON
 PROJECT: EAST NORTHPORT LANDFILL
 SAMPLE LOCATION: S-25, SELECT FILL

PROJ. NO.: 94S1749-01 DATE: 5-15-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.

FIG. NO. S-25



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	7.1	7.1	7.1
	DRY DENSITY, pcf	117.6	117.6	117.6
	SATURATION, %	46.3	46.3	46.3
	VOID RATIO	0.406	0.406	0.406
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	7.1	7.1	7.1
	DRY DENSITY, pcf	117.6	117.6	117.6
	SATURATION, %	46.3	46.3	46.3
	VOID RATIO	0.406	0.406	0.406
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		500	1000	1500
MAXIMUM SHEAR, psf		1351	1880	2431
RESIDUAL SHEAR, psf		957	1238	1778
Strain rate, in/min		0.010	0.010	1.000

SAMPLE DATA
 SAMPLE TYPE: SELECT FILL
 DESCRIPTION: S-26, SELECT FILL
 LL= PL= PI=
 SPECIFIC GRAVITY= 2.65
 REMARKS: ASTM D-3080
 DIRECT SHEAR TEST
 DRY CONDITION

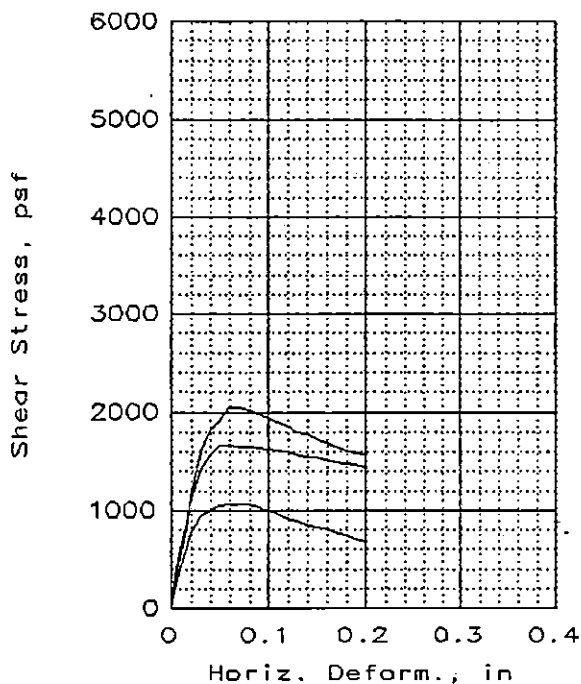
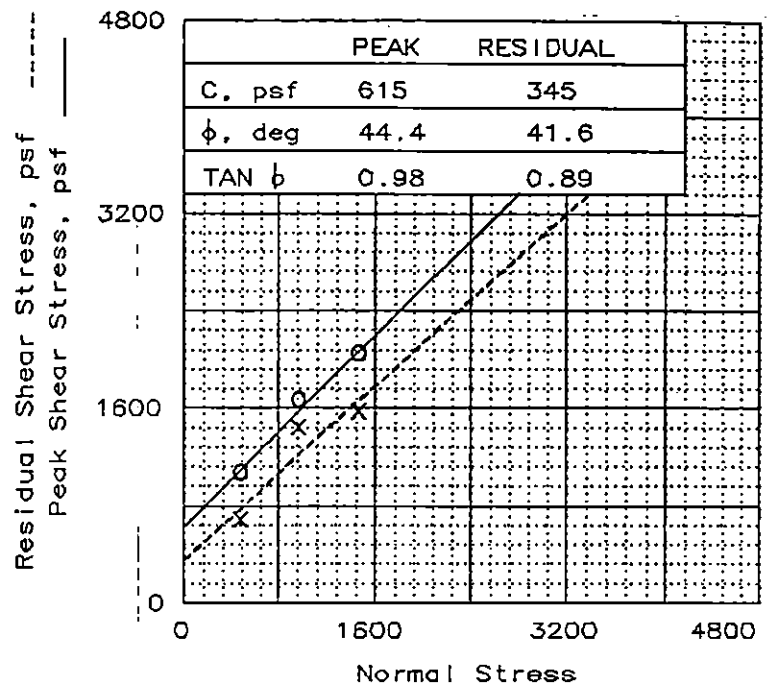
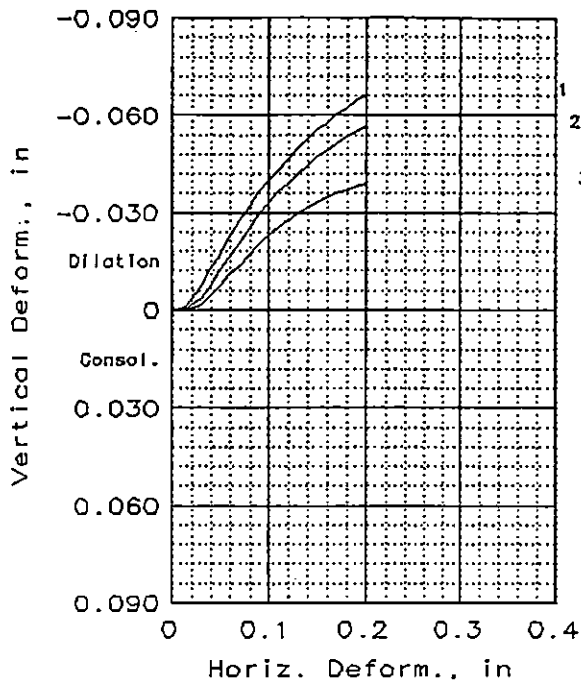
CLIENT: TOWN OF HUNTINGTON
 PROJECT: EAST NORTHPORT LANDFILL
 SAMPLE LOCATION: S-26, SELECT FILL

PROJ. NO.: 94S1749-01 DATE: 5-12-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.

FIG. NO. S-26



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	7.3	7.3	7.3
	DRY DENSITY, pcf	116.8	116.8	116.8
	SATURATION, %	46.5	46.5	46.5
	VOID RATIO	0.416	0.416	0.416
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	7.3	7.3	7.3
	DRY DENSITY, pcf	116.8	116.8	116.8
	SATURATION, %	46.5	46.5	46.5
	VOID RATIO	0.416	0.416	0.416
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		500	1000	1500
MAXIMUM SHEAR, psf		1069	1666	2048
RESIDUAL SHEAR, psf		687	1441	1576
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA
 SAMPLE TYPE: SELECT FILL
 DESCRIPTION: S-27, SELECT FILL

LL= PL= PI=
 SPECIFIC GRAVITY= 2.65
 REMARKS: ASTM D-3080

DIRECT SHEAR TEST
 DRY CONDITION
 SPECIFIC GRAVITY ASSUMED
 FIG. NO. S-27

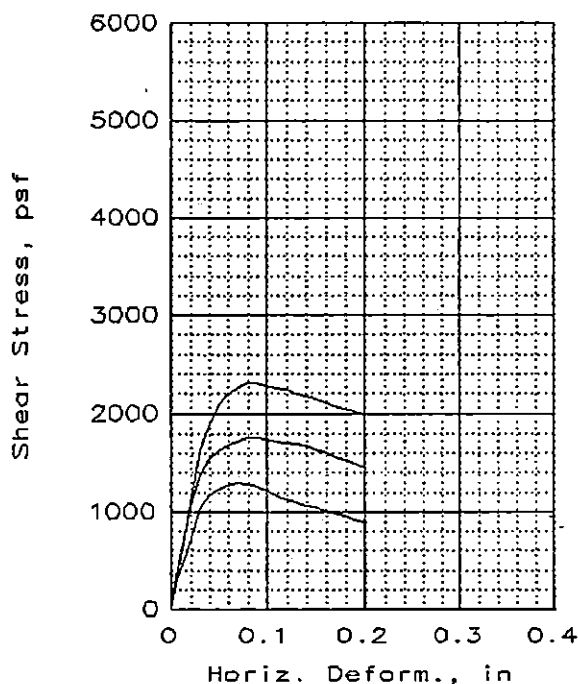
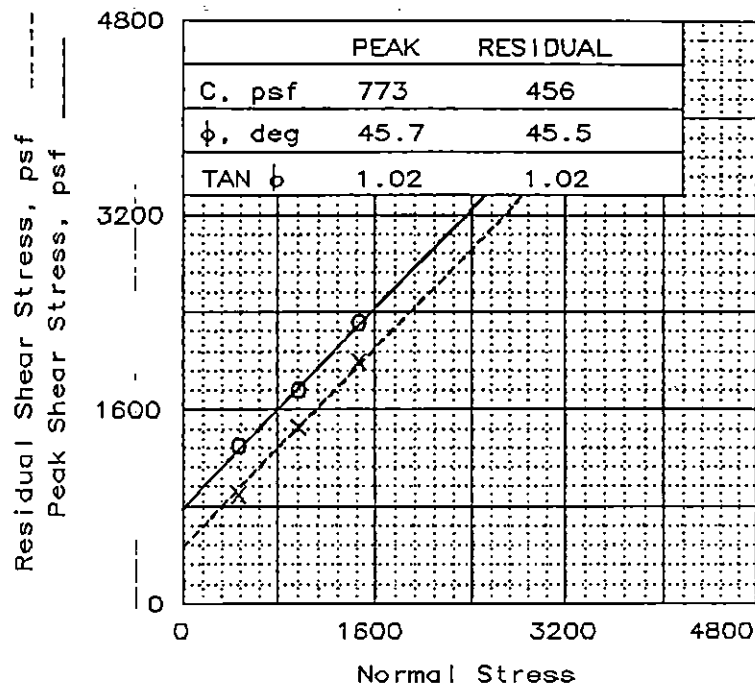
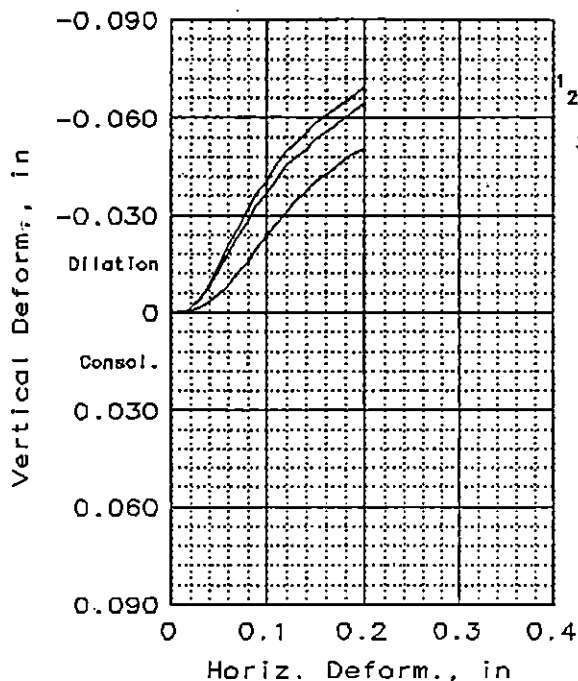
CLIENT: TOWN OF HUNTINGTON
 PROJECT: EAST NORTHPORT LANDFILL

SAMPLE LOCATION:

PROJ. NO.: 94S1749-01 DATE: 5-23-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	8.0	8.0	8.0
	DRY DENSITY, pcf	115.3	115.3	115.3
	SATURATION, %	48.7	48.7	48.7
	VOID RATIO	0.435	0.435	0.435
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	8.0	8.0	8.0
	DRY DENSITY, pcf	115.3	115.3	115.3
	SATURATION, %	48.7	48.7	48.7
	VOID RATIO	0.435	0.435	0.435
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		500	1000	1500
MAXIMUM SHEAR, psf		1294	1756	2307
RESIDUAL SHEAR, psf		889	1452	1992
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA
 SAMPLE TYPE: SELECT FILL
 DESCRIPTION: S-28, SELECT FILL

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS: ASTM D-3080

DIRECT SHEAR TEST

DRY CONDITION

SPECIFIC GRAVITY ASSUMED

FIG. NO. S-28

CLIENT: TOWN OF HUNTINGTON

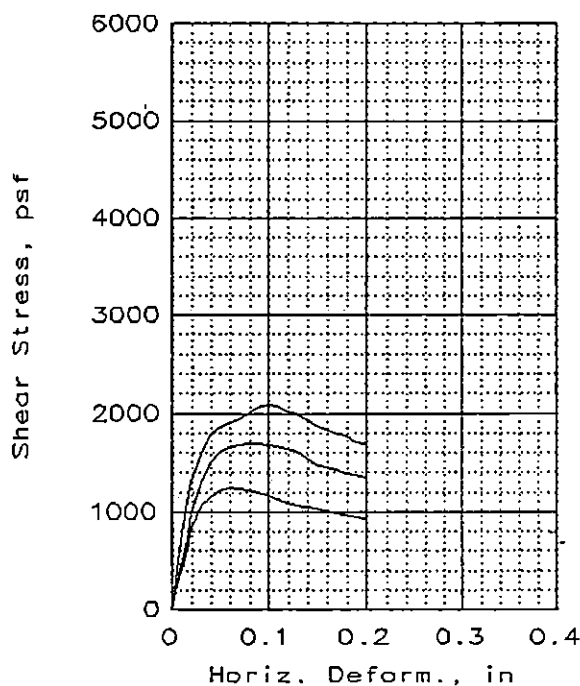
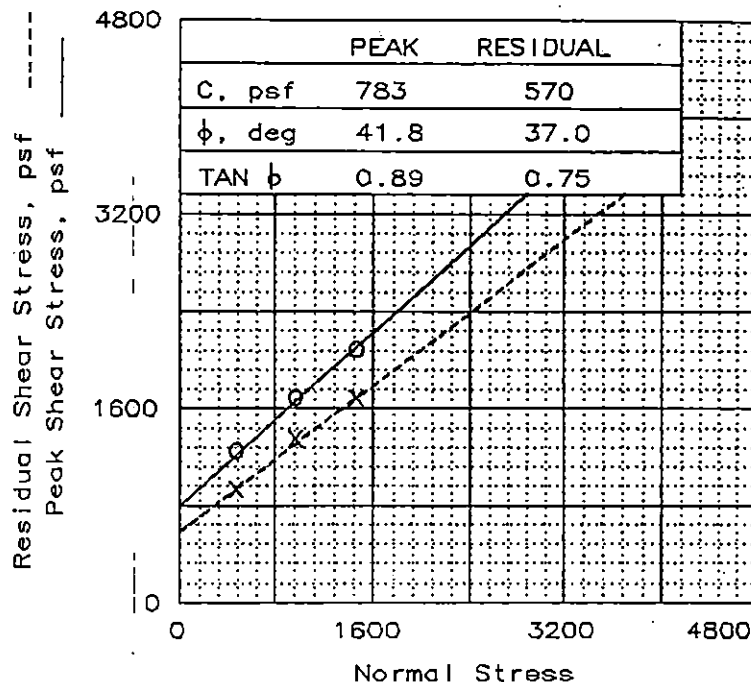
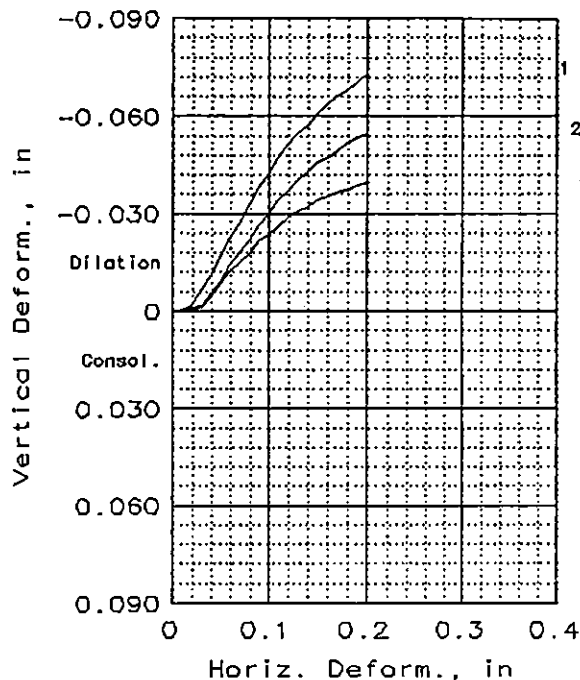
PROJECT: EAST NORTHPORT LANDFILL

SAMPLE LOCATION:

PROJ. NO.: 94S1749-01 DATE: 5-23-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	7.4	7.4	7.4
	DRY DENSITY, pcf	115.4	115.4	115.4
	SATURATION, %	45.2	45.2	45.2
	VOID RATIO	0.434	0.434	0.434
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	7.4	7.4	7.4
	DRY DENSITY, pcf	115.4	115.4	115.4
	SATURATION, %	45.2	45.2	45.2
	VOID RATIO	0.434	0.434	0.434
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		500	1000	1500
MAXIMUM SHEAR, psf		1249	1688	2082
RESIDUAL SHEAR, psf		934	1351	1688
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA
 SAMPLE TYPE: ALT. SELECT FILL
 DESCRIPTION: S-29, SELECT FILL
 LL= PL= PI=
 SPECIFIC GRAVITY= 2.65
 REMARKS: ASTM D-3080
 DIRECT SHEAR TEST
 DRY CONDITION
 SPECIFIC GRAVITY ASSUMED
 FIG. NO. S-29

CLIENT: TOWN OF HUNTINGTON

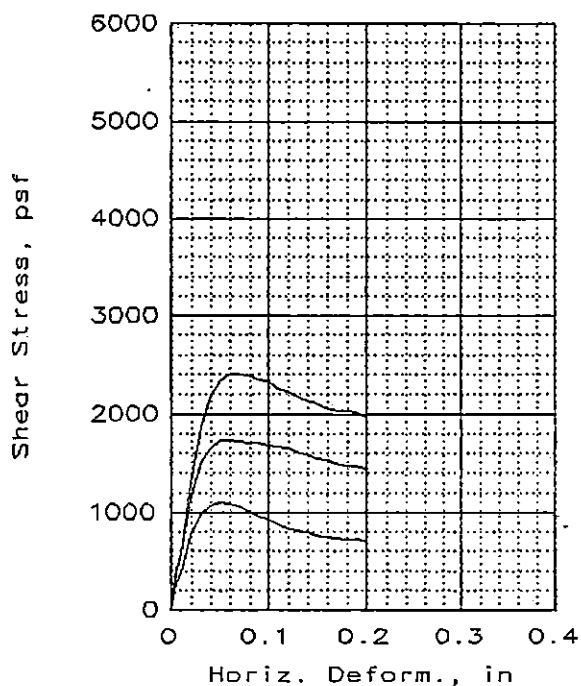
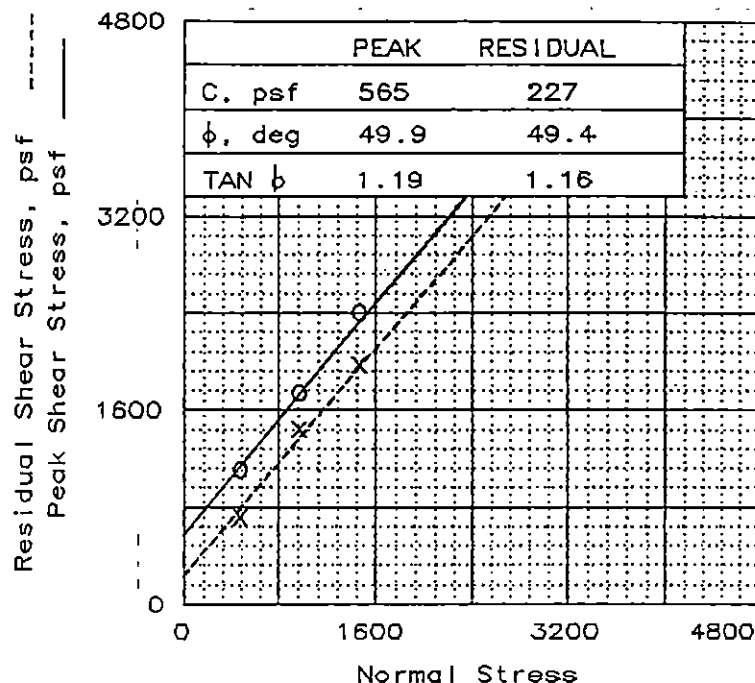
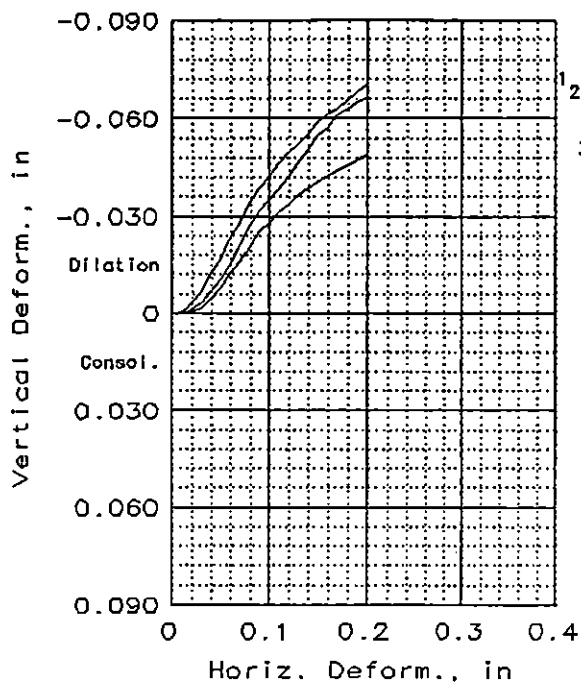
PROJECT: EAST NORTHPORT LANDFILL

SAMPLE LOCATION:

PROJ. NO.: 94S1749-01 DATE: 5-24-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	7.6	7.6	6.9
	DRY DENSITY, pcf	115.6	115.6	116.4
	SATURATION, %	46.8	46.8	43.4
	VOID RATIO	0.431	0.431	0.421
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	7.6	7.6	7.6
	DRY DENSITY, pcf	115.6	115.6	116.4
	SATURATION, %	46.8	46.8	47.9
	VOID RATIO	0.431	0.431	0.421
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		500	1000	1500
MAXIMUM SHEAR, psf		1103	1733	2397
RESIDUAL SHEAR, psf		709	1441	1970
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA

SAMPLE TYPE: ALT. SELECT FILL
DESCRIPTION: S-30, SELECT FILL

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS: ASTM D-3080

DIRECT SHEAR TEST

DRY CONDITION

SPECIFIC GRAVITY ASSUMED

FIG. NO. S-30

CLIENT: TOWN OF HUNTINGTON

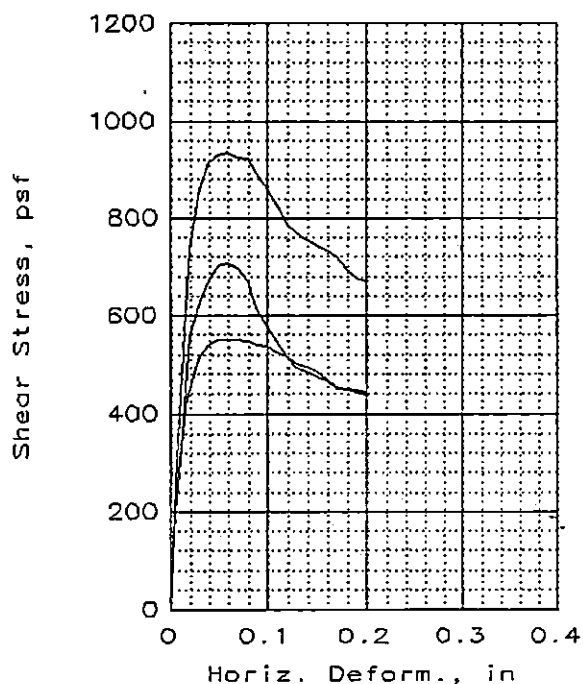
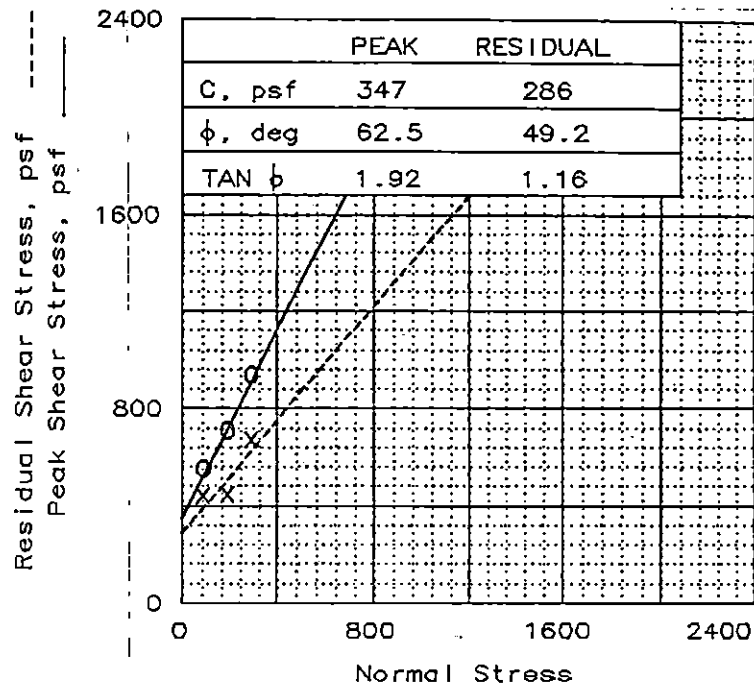
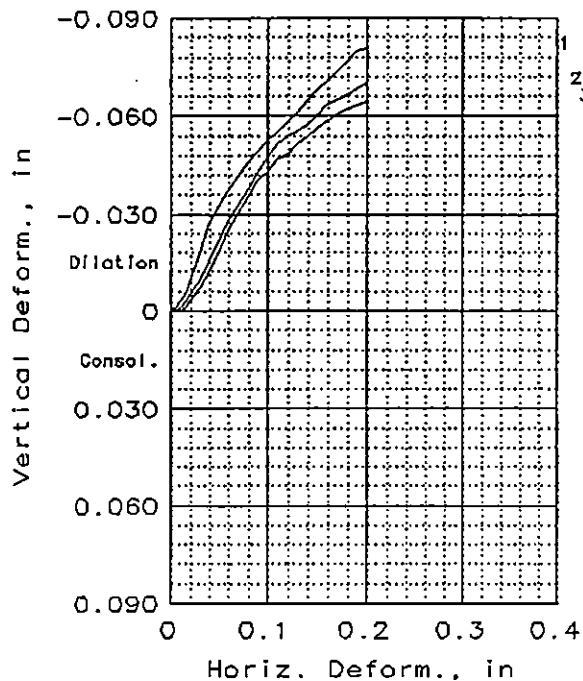
PROJECT: EAST NORTHPORT LANDFILL

SAMPLE LOCATION:

PROJ. NO.: 94S1749-01 DATE: 5-24-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	7.3	7.3	7.3
	DRY DENSITY, pcf	114.8	114.8	114.8
	SATURATION, %	43.8	43.8	43.8
	VOID RATIO	0.441	0.441	0.441
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	7.3	7.3	7.3
	DRY DENSITY, pcf	114.8	114.8	114.8
	SATURATION, %	43.8	43.8	43.8
	VOID RATIO	0.441	0.441	0.441
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		551	709	936
RESIDUAL SHEAR, psf		439	443	671
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA

SAMPLE TYPE: ALT. SELECT FILL
DESCRIPTION: S-35, SELECT FILL

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS: ASTM D-3080

DIRECT SHEAR STRENGTH TEST

DRY CONDITION

SPECIFIC GRAVITY ASSUMED

FIG. NO. S-35

CLIENT: TOWN OF HUNTINGTON

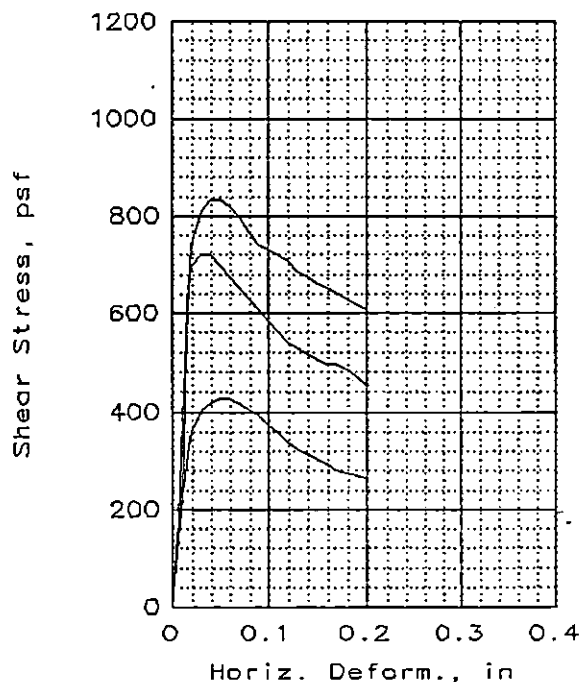
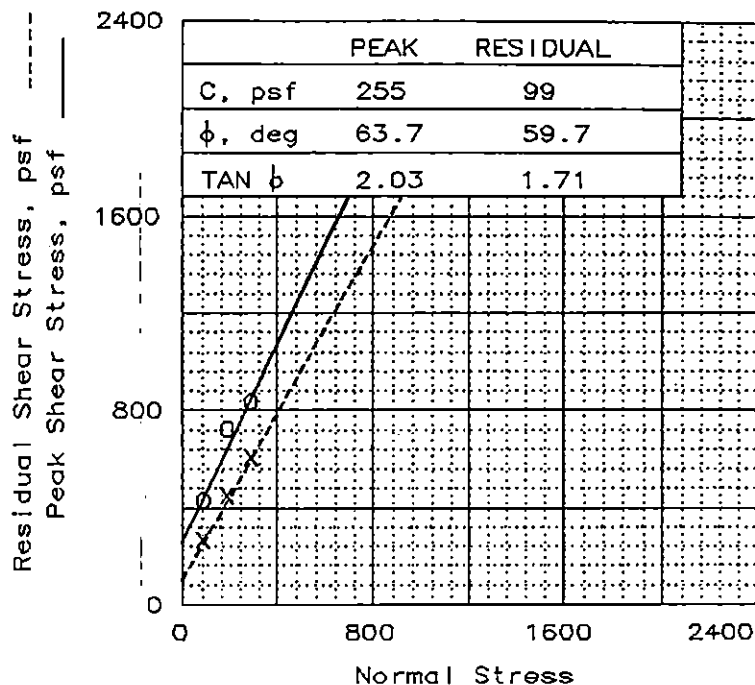
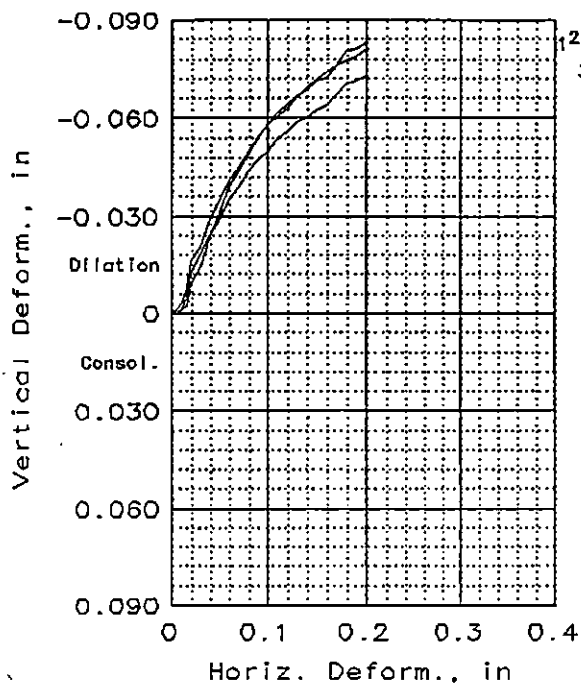
PROJECT: EAST NORTHPORT LANDFILL

SAMPLE LOCATION:

PROJ. NO.: 94S1749-01 DATE: 6-6-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	7.5	7.5	7.5
	DRY DENSITY, pcf	113.6	113.6	113.6
	SATURATION, %	43.5	43.5	43.5
	VOID RATIO	0.456	0.456	0.456
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	7.5	7.5	7.5
	DRY DENSITY, pcf	113.6	113.6	113.6
	SATURATION, %	43.5	43.5	43.5
	VOID RATIO	0.456	0.456	0.456
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		428	720	833
RESIDUAL SHEAR, psf		266	450	608
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA

SAMPLE TYPE: ALT. SELECT FILL
DESCRIPTION: S-33, SELECT FILL

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS: ASTM D-3080

DIRECT SHEAR STRENGTH TEST

DRY CONDITION

SPECIFIC GRAVITY ASSUMED

FIG. NO. S-33

CLIENT: TOWN OF HUNTINGTON

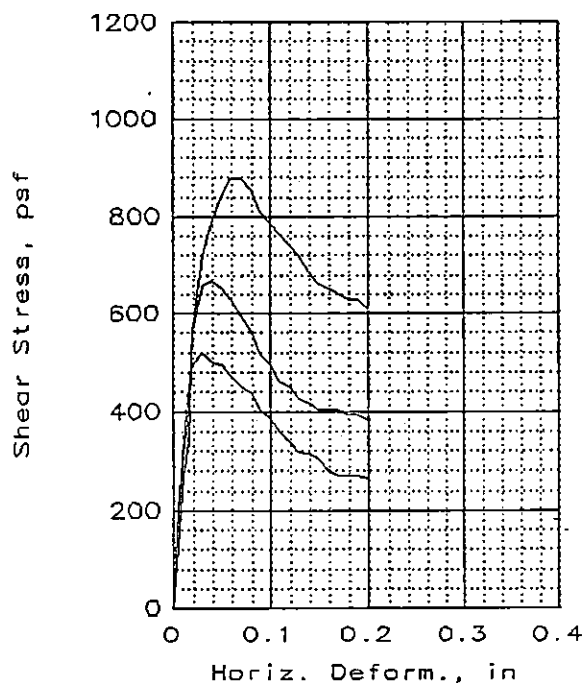
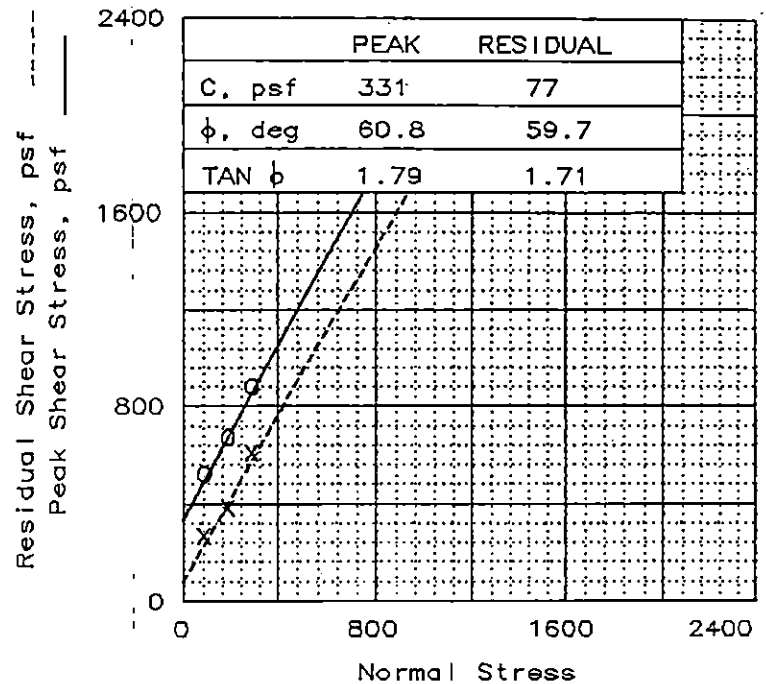
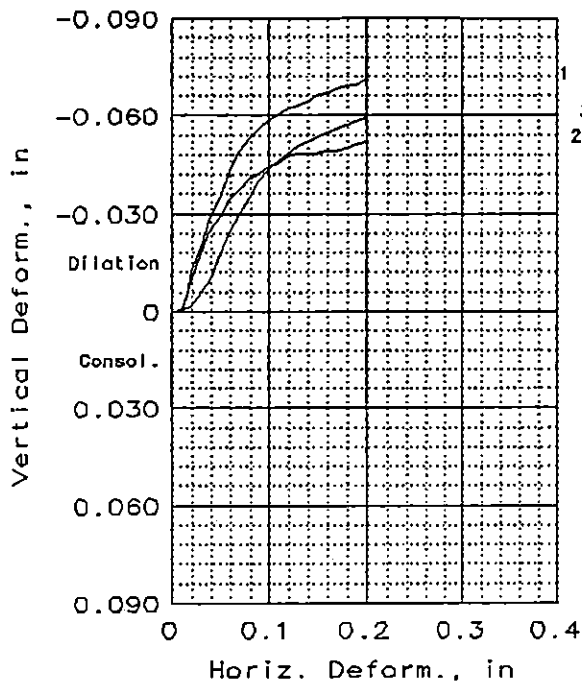
PROJECT: EAST NORTHPORT LANDFILL

SAMPLE LOCATION:

PROJ. NO.: 94S1749-01 DATE: 6-6-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	8.2	8.2	8.2
	DRY DENSITY, pcf	118.6	118.6	118.6
	SATURATION, %	55.1	55.1	55.1
	VOID RATIO	0.394	0.394	0.394
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	8.2	8.2	8.2
	DRY DENSITY, pcf	118.6	118.6	118.6
	SATURATION, %	55.1	55.1	55.1
	VOID RATIO	0.394	0.394	0.394
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		520	669	878
RESIDUAL SHEAR, psf		266	383	608
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA

SAMPLE TYPE: ALT. SELECT FILL
DESCRIPTION: S-31, SELECT FILL

LL= PL= PI=
SPECIFIC GRAVITY= 2.65
REMARKS: ASTM D-3080

DIRECT SHEAR STRENGTH TEST
DRY CONDITION

SPECIFIC GRAVITY ASSUMED
FIG. NO. S-31

CLIENT: TOWN OF HUNTINGTON

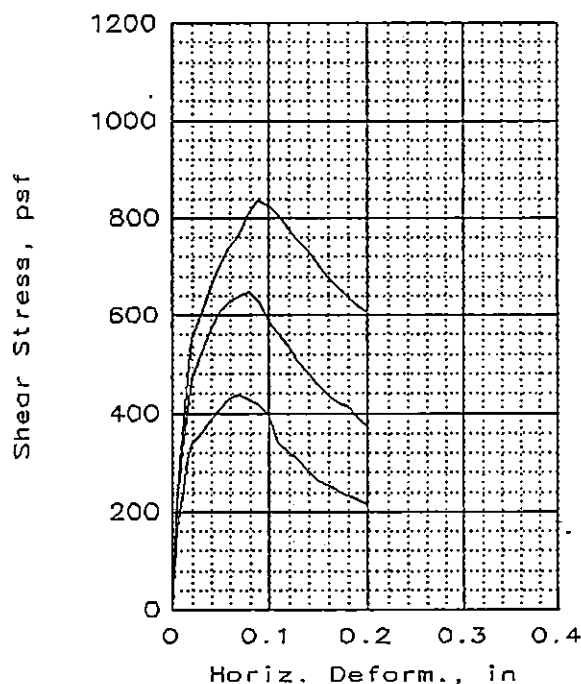
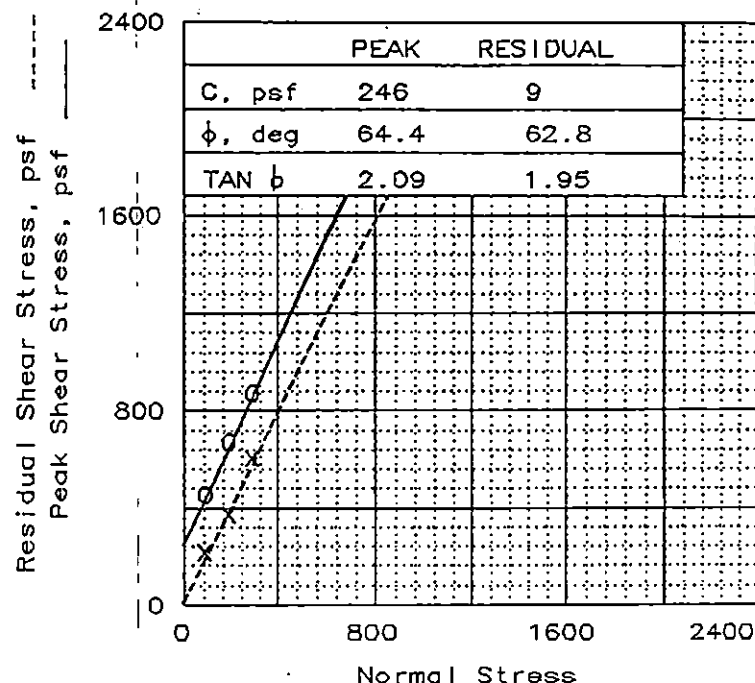
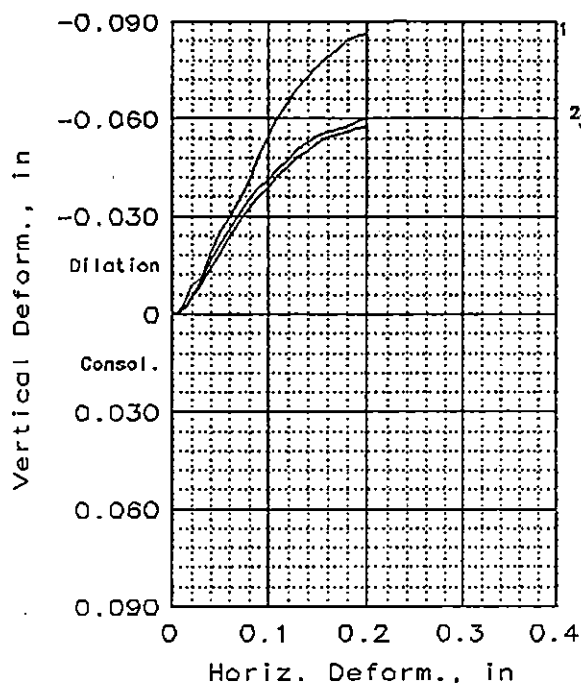
PROJECT: EAST NORTHPORT LANDFILL

SAMPLE LOCATION:

PROJ. NO.: 94S1749-01 DATE: 6-6-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	7.5	7.5	7.5
	DRY DENSITY, pcf	116.5	116.5	116.5
	SATURATION, %	47.3	47.3	47.3
	VOID RATIO	0.420	0.420	0.420
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	7.5	7.5	7.5
	DRY DENSITY, pcf	116.5	116.5	116.5
	SATURATION, %	47.3	47.3	47.4
	VOID RATIO	0.420	0.420	0.420
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		452	670	869
RESIDUAL SHEAR, psf		216	374	606
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA
 SAMPLE TYPE: ALT. SELECT FILL
 DESCRIPTION: S-34, SELECT FILL

LL= PL= PI=
 SPECIFIC GRAVITY= 2.65
 REMARKS: ASTM D-3080

DIRECT SHEAR STRENGTH TEST
 DRY CONDITION
 SPECIFIC GRAVITY ASSUMED
 FIG. NO. S-34

CLIENT: TOWN OF HUNTINGTON

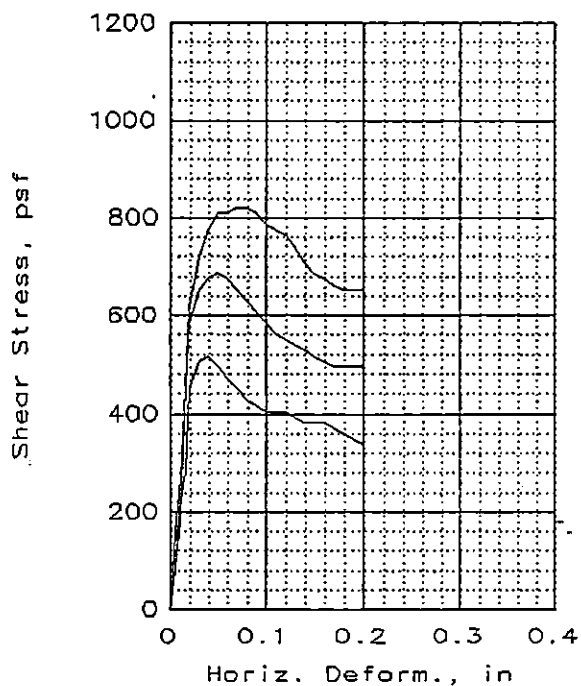
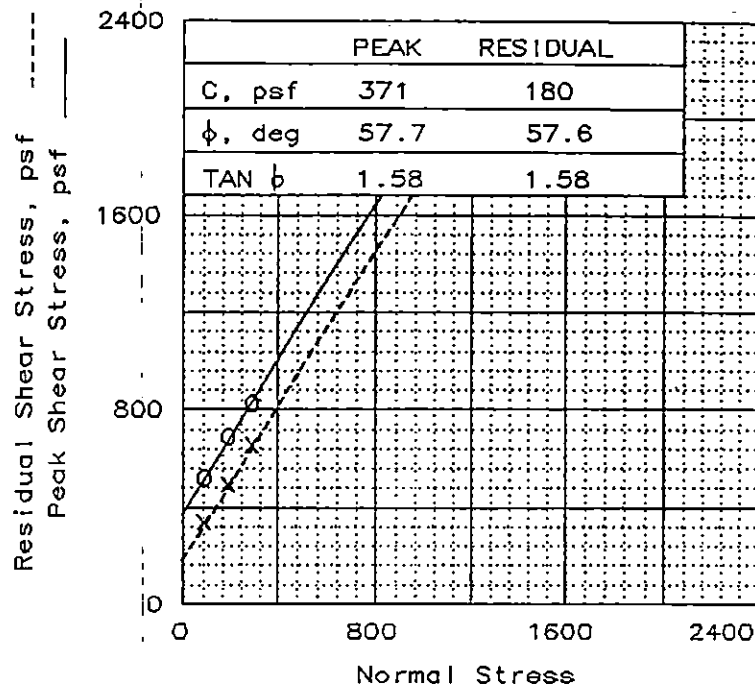
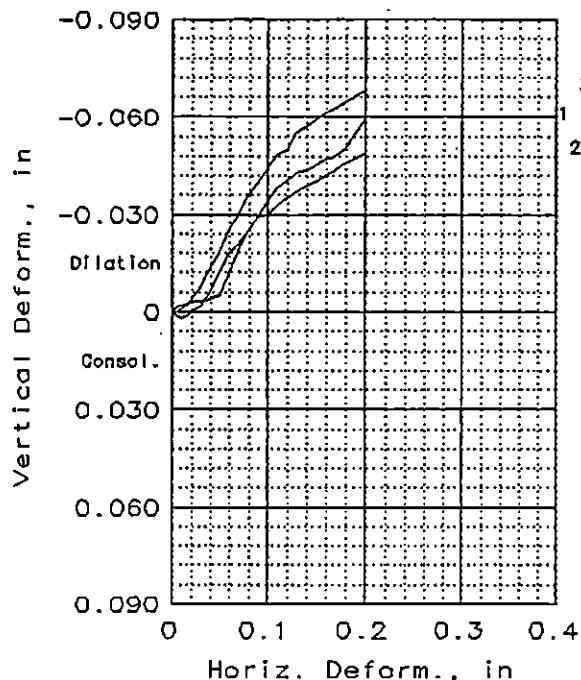
PROJECT: EAST NORTHPORT LANDFILL

SAMPLE LOCATION:

PROJ. NO.: 94S1749-01 DATE: 6-6-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	7.5	7.5	7.5
	DRY DENSITY, pcf	113.4	113.4	113.4
	SATURATION, %	43.3	43.3	43.3
	VOID RATIO	0.459	0.459	0.459
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	7.5	7.5	7.5
	DRY DENSITY, pcf	113.4	113.4	113.4
	SATURATION, %	43.3	43.3	43.3
	VOID RATIO	0.459	0.459	0.459
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		518	687	822
RESIDUAL SHEAR, psf		338	495	653
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA

SAMPLE TYPE: ALT. SELECT FILL
DESCRIPTION: S-32, SELECT FILL

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS: ASTM D-3080

DIRECT SHEAR STRENGTH TEST
DRY CONDITION

SPECIFIC GRAVITY ASSUMED

FIG. NO. S-32

CLIENT: TOWN OF HUNTINGTON

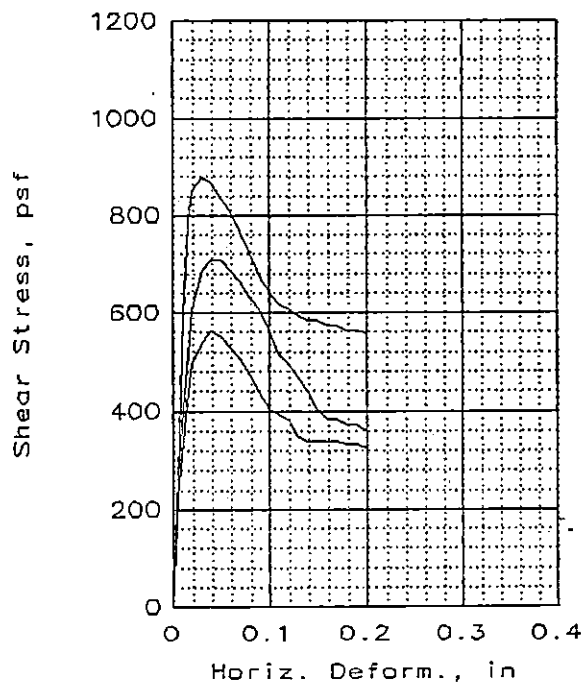
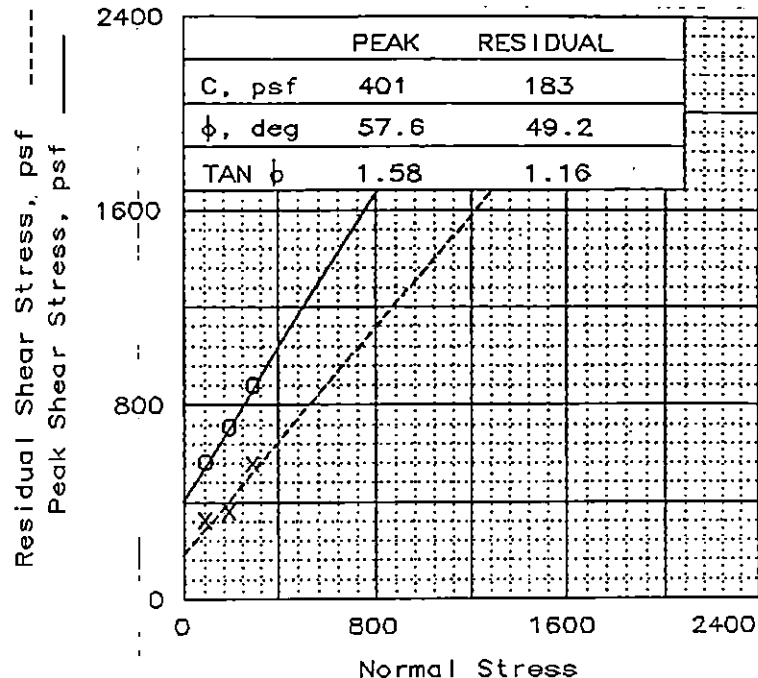
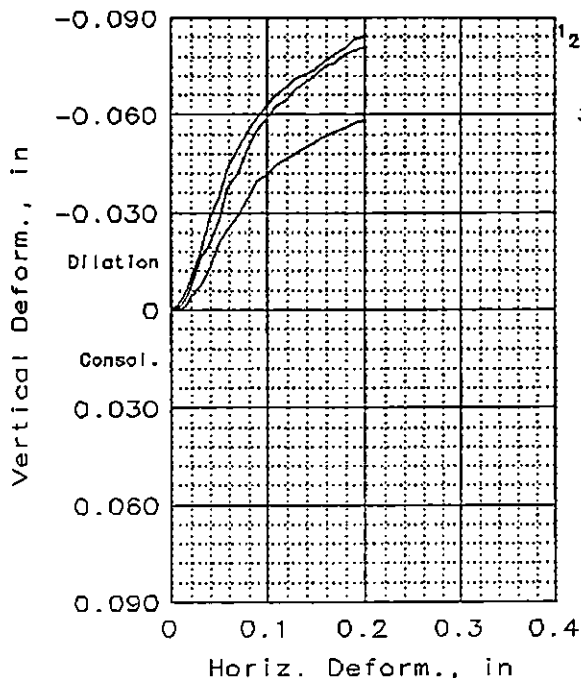
PROJECT: EAST NORTHPORT LANDFILL

SAMPLE LOCATION:

PROJ. NO.: 94S1749-01 DATE: 6-6-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	6.7	6.7	6.7
	DRY DENSITY, pcf	114.2	114.2	114.2
	SATURATION, %	39.6	39.6	39.6
	VOID RATIO	0.448	0.448	0.448
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	6.7	6.7	6.7
	DRY DENSITY, pcf	114.2	114.2	114.2
	SATURATION, %	39.6	39.6	39.6
	VOID RATIO	0.448	0.448	0.448
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		563	709	878
RESIDUAL SHEAR, psf		326	360	558
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA
 SAMPLE TYPE: ALT. SELECT FILL
 DESCRIPTION: S-36, SELECT FILL

LL= PL= PI=
 SPECIFIC GRAVITY= 2.65
 REMARKS: ASTM D-3080

DIRECT SHEAR STRENGTH TEST
 DRY CONDITION
 SPECIFIC GRAVITY ASSUMED
 FIG. NO. S-36

CLIENT: TOWN OF HUNTINGTON

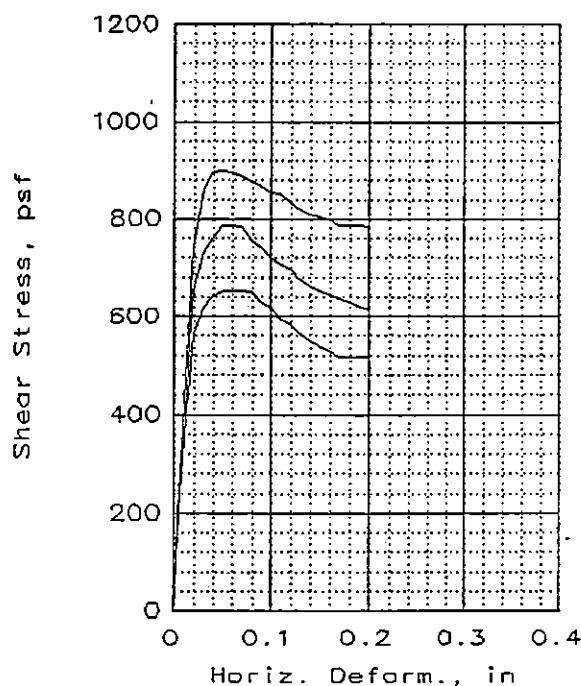
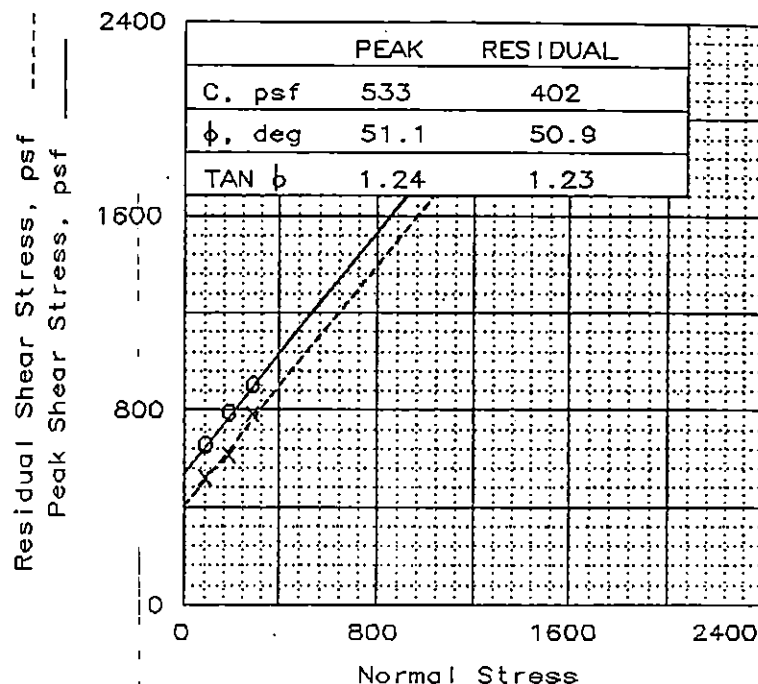
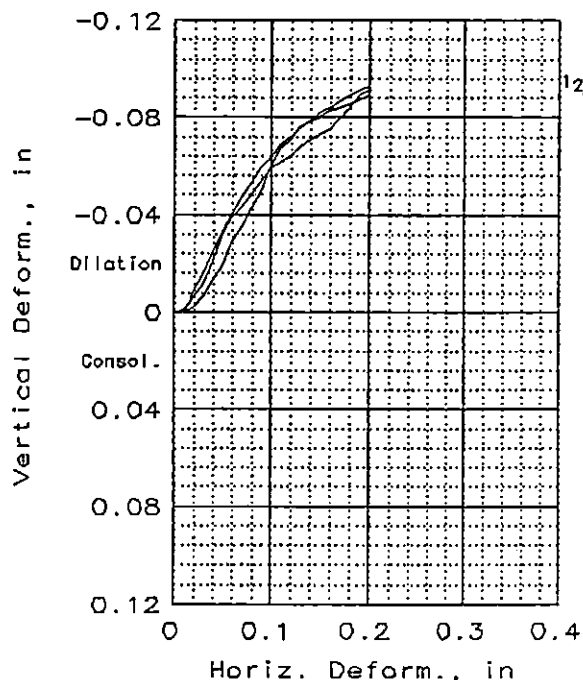
PROJECT: EAST NORTHPORT LANDFILL

SAMPLE LOCATION: S-36

PROJ. NO.: 94S1749-01 DATE: 6-19-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	7.5	7.5	7.5
	DRY DENSITY, pcf	115.8	115.8	115.8
	SATURATION, %	46.4	46.4	46.4
	VOID RATIO	0.428	0.428	0.428
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	7.5	7.5	7.5
	DRY DENSITY, pcf	115.8	115.8	115.8
	SATURATION, %	46.4	46.4	46.4
	VOID RATIO	0.428	0.428	0.428
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		653	788	900
RESIDUAL SHEAR, psf		518	615	783
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA

SAMPLE TYPE: ALT. SELECT FILL
DESCRIPTION: S-37, SELECT FILL

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS: ASTM D-3080

DIRECT SHEAR STRENGTH TEST

DRY CONDITION

SPECIFIC GRAVITY ASSUMED

FIG. NO. S-37

CLIENT: TOWN OF HUNTINGTON

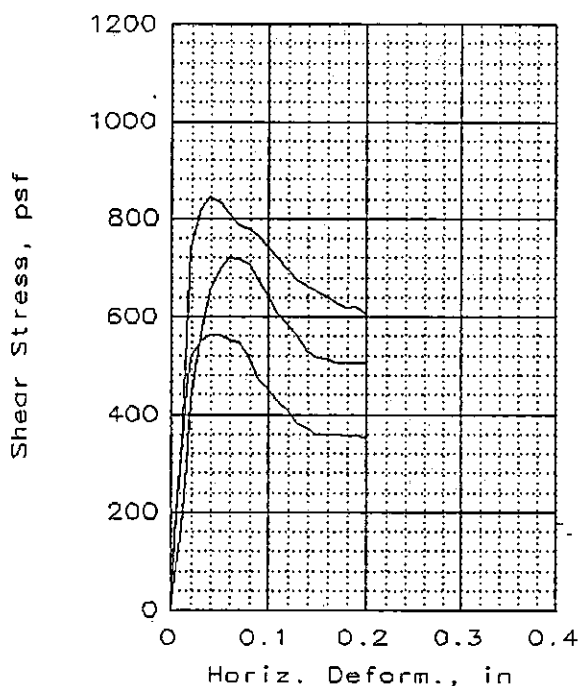
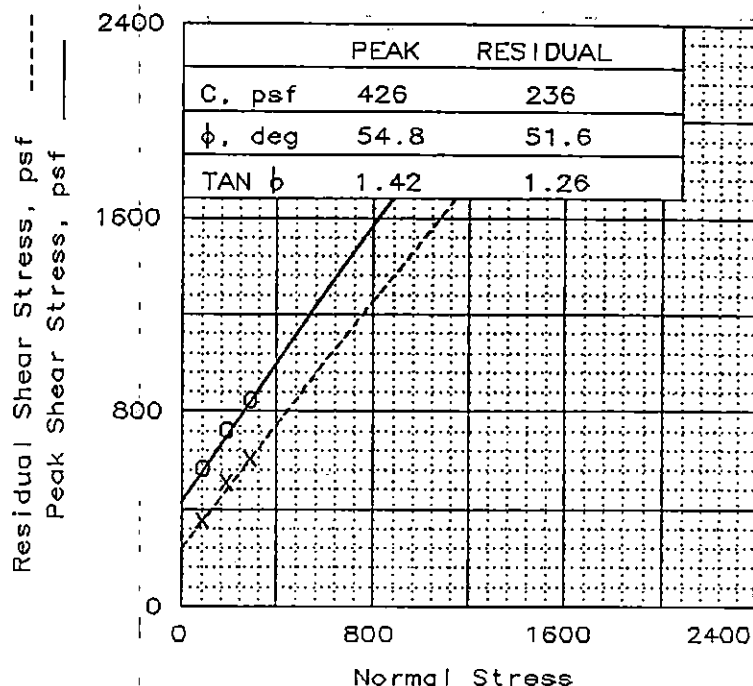
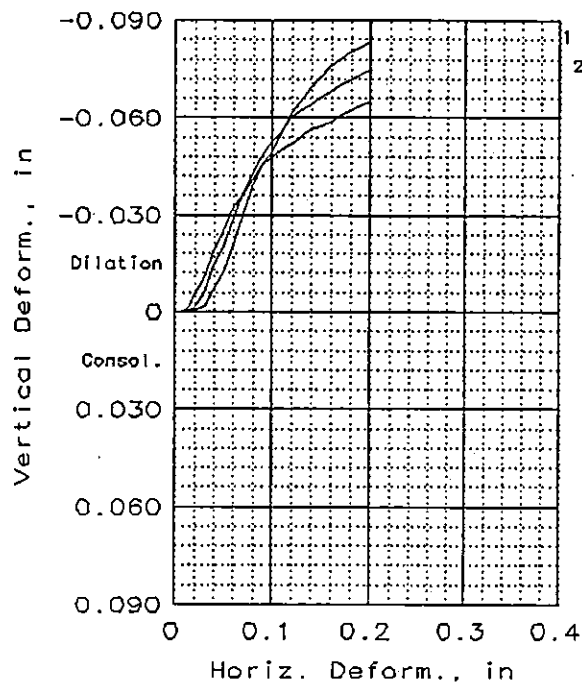
PROJECT: EAST NORTHPORT LANDFILL

SAMPLE LOCATION: S-37

PROJ. NO.: 94S1749-01 DATE: 6-19-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	7.5	7.5	7.5
	DRY DENSITY, pcf	112.1	112.1	112.1
	SATURATION, %	41.7	41.7	41.7
	VOID RATIO	0.476	0.476	0.476
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	7.5	7.5	7.5
	DRY DENSITY, pcf	112.1	112.1	112.1
	SATURATION, %	41.7	41.7	41.7
	VOID RATIO	0.476	0.476	0.476
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		563	720	844
RESIDUAL SHEAR, psf		353	506	606
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA

SAMPLE TYPE: ALT. SELECT FILL
DESCRIPTION: S-38, SELECT FILL

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS: ASTM D-3080

DIRECT SHEAR STRENGTH TEST

DRY CONDITION

SPECIFIC GRAVITY ASSUMED

FIG. NO. S-38

CLIENT: TOWN OF HUNTINGTON

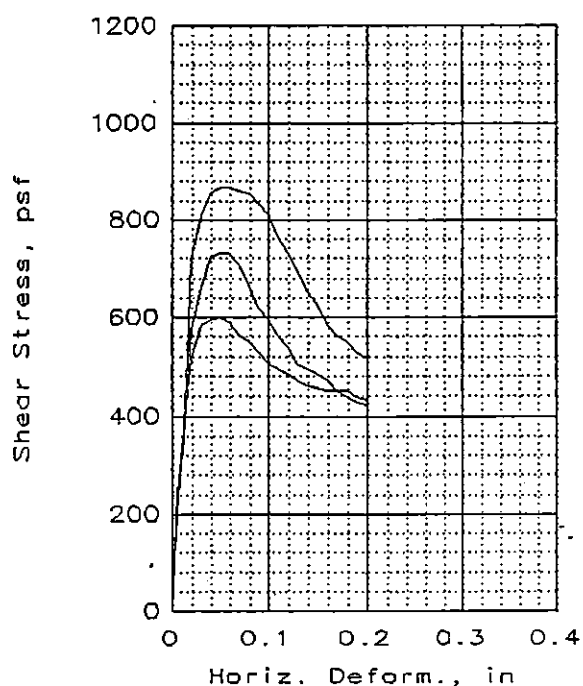
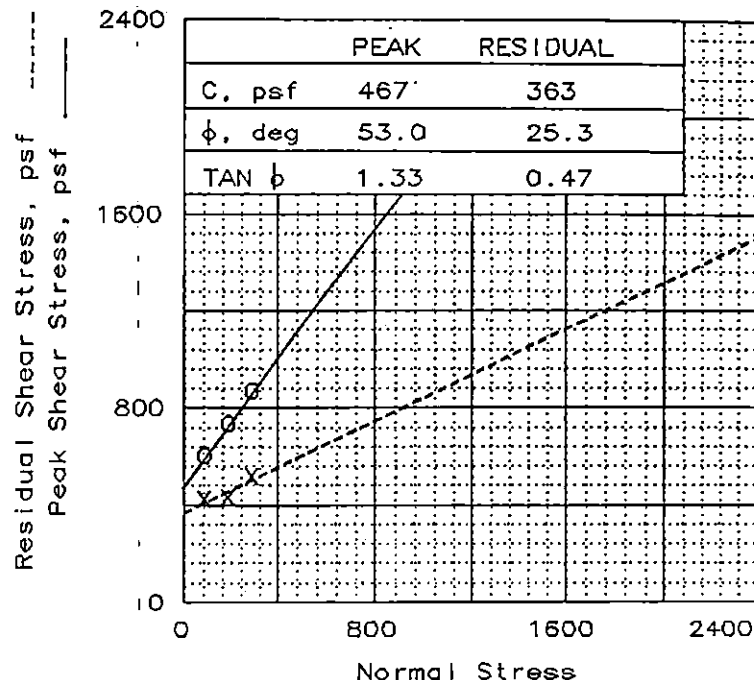
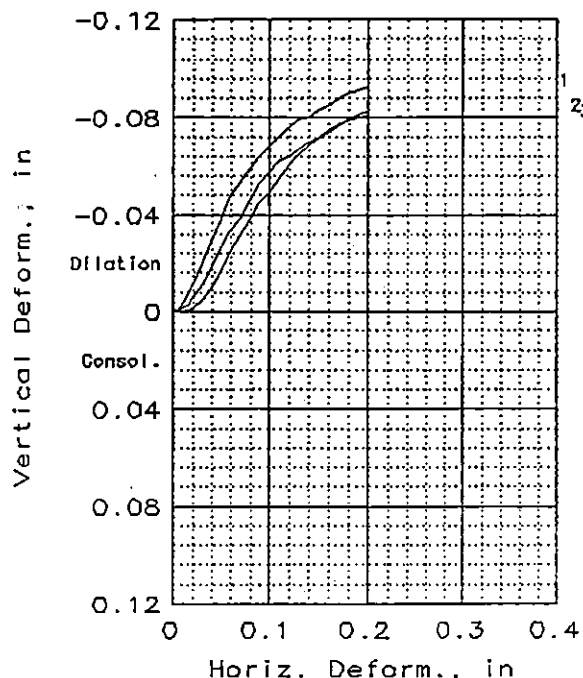
PROJECT: EAST NORTHPORT LANDFILL

SAMPLE LOCATION: S-38

PROJ. NO.: 94S1749-01 DATE: 6-19-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	7.0	7.0	7.0
	DRY DENSITY, pcf	113.9	113.9	113.9
	SATURATION, %	41.0	41.0	41.0
	VOID RATIO	0.453	0.453	0.453
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	7.0	7.0	7.0
	DRY DENSITY, pcf	113.9	113.9	113.9
	SATURATION, %	41.0	41.0	41.0
	VOID RATIO	0.453	0.453	0.453
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		601	732	867
RESIDUAL SHEAR, psf		423	432	518
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA
 SAMPLE TYPE: ALT. SELECT FILL
 DESCRIPTION: S-39, SELECT FILL

LL= PL= PI=
 SPECIFIC GRAVITY= 2.65
 REMARKS: ASTM D-3080

DIRECT SHEAR STRENGTH TEST
 DRY CONDITION
 SPECIFIC GRAVITY ASSUMED
 FIG. NO. S-39

CLIENT: TOWN OF HUNTINGTON

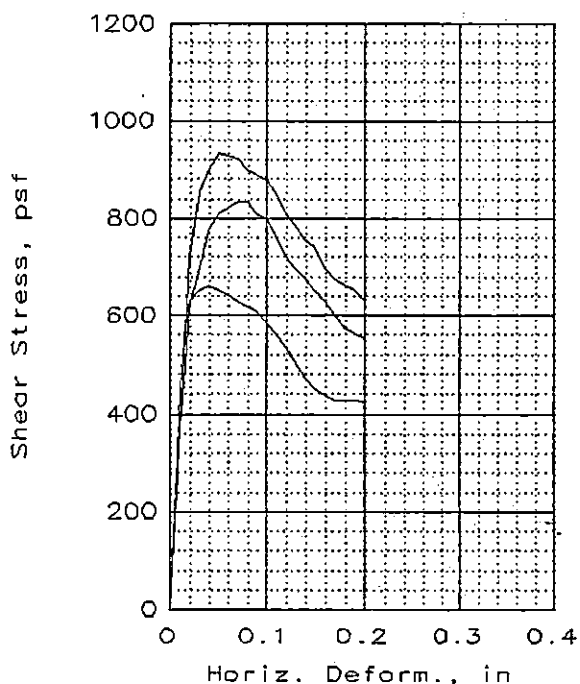
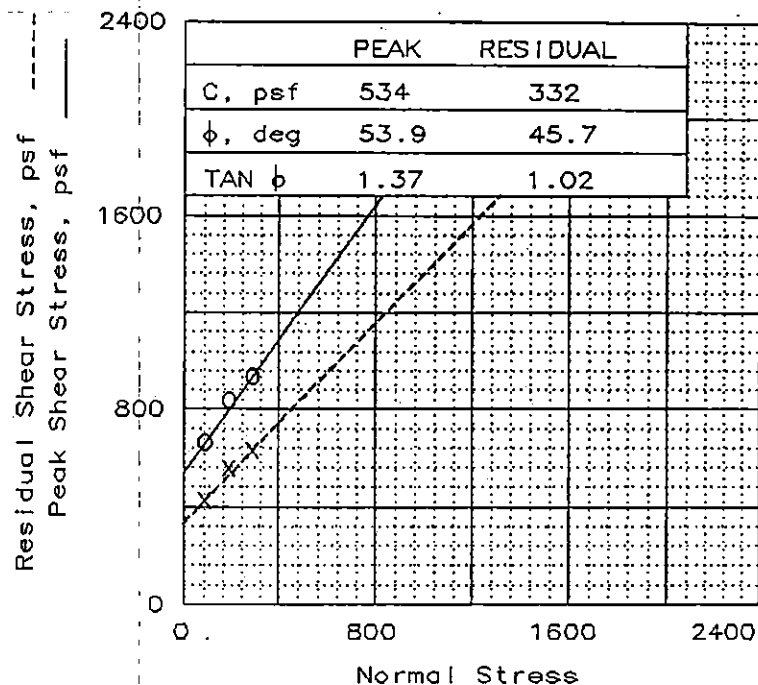
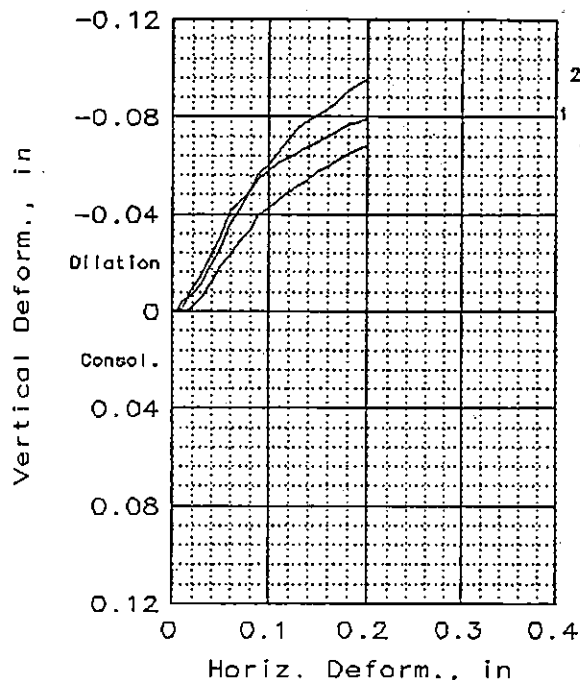
PROJECT: EAST NORTHPORT LANDFILL

SAMPLE LOCATION: S-39

PROJ. NO.: 94S1749-01 DATE: 6-19-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	7.1	7.1	7.1
	DRY DENSITY, pcf	116.8	116.8	116.8
	SATURATION, %	45.2	45.2	45.2
	VOID RATIO	0.416	0.416	0.416
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	7.1	7.1	7.1
	DRY DENSITY, pcf	116.8	116.8	116.8
	SATURATION, %	45.2	45.2	45.2
	VOID RATIO	0.416	0.416	0.416
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		660	833	934
RESIDUAL SHEAR, psf		425	554	630
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA

SAMPLE TYPE: ALT. SELECT FILL
DESCRIPTION: S-40, SELECT FILL

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS: ASTM D-3080

DIRECT SHEAR STRENGTH TEST

DRY CONDITION

SPECIFIC GRAVITY ASSUMED

FIG. NO. S-40

CLIENT: TOWN OF HUNTINGTON

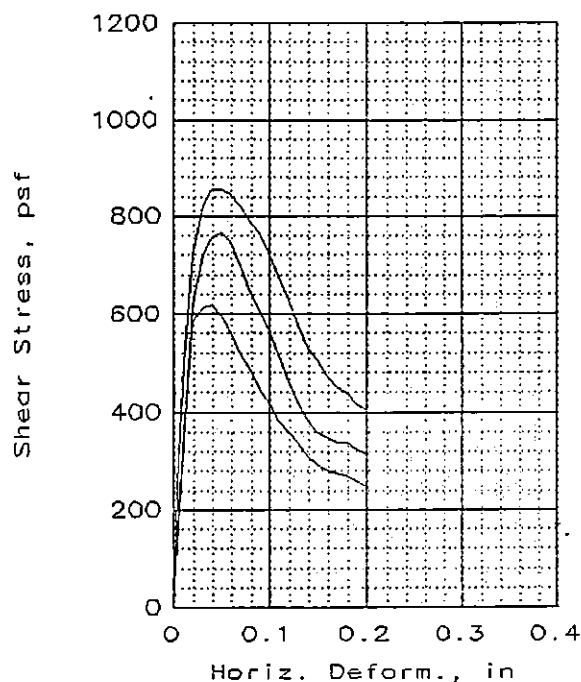
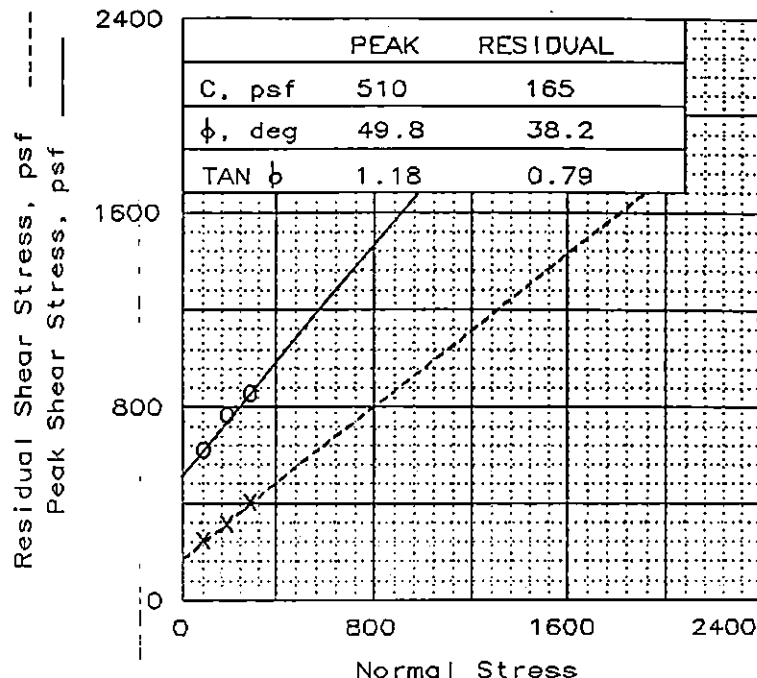
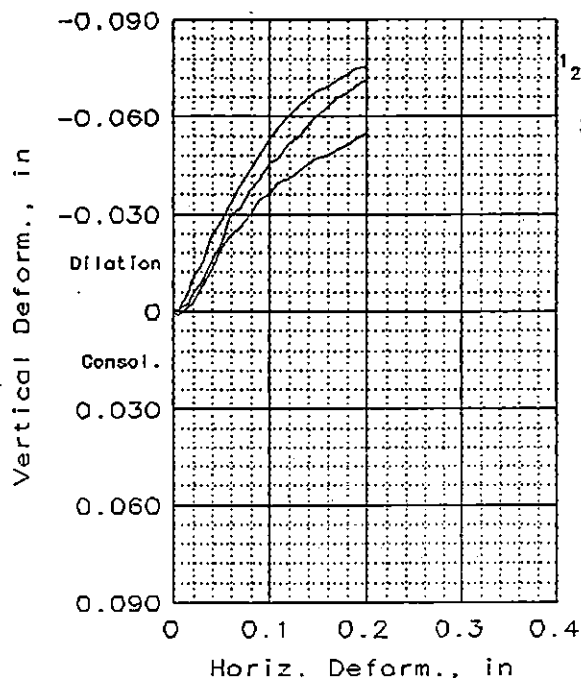
PROJECT: EAST NORTHPORT LANDFILL

SAMPLE LOCATION: S-40

PROJ. NO.: 94S1749-01 DATE: 6-19-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	8.1	8.1	8.1
	DRY DENSITY, pcf	111.4	111.4	111.4
	SATURATION, %	44.2	44.2	44.2
	VOID RATIO	0.486	0.486	0.486
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	8.1	8.1	8.1
	DRY DENSITY, pcf	111.4	111.4	111.4
	SATURATION, %	44.2	44.2	44.2
	VOID RATIO	0.486	0.486	0.486
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		619	765	855
RESIDUAL SHEAR, psf		248	315	405
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA

SAMPLE TYPE: ALT. SELECT FILL
 DESCRIPTION: S-41, SELECT FILL

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS: ASTM D-3080

DIRECT SHEAR STRENGTH TEST
 DRY CONDITION
 SPECIFIC GRAVITY ASSUMED

FIG. NO. S-41

CLIENT: TOWN OF HUNTINGTON

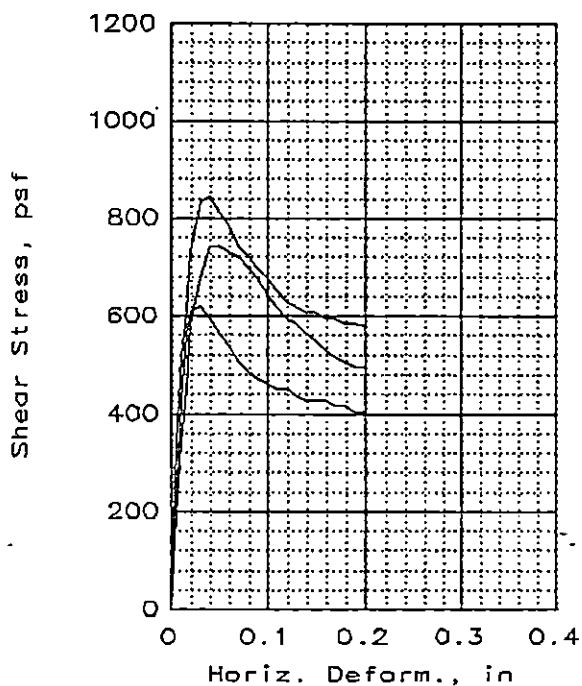
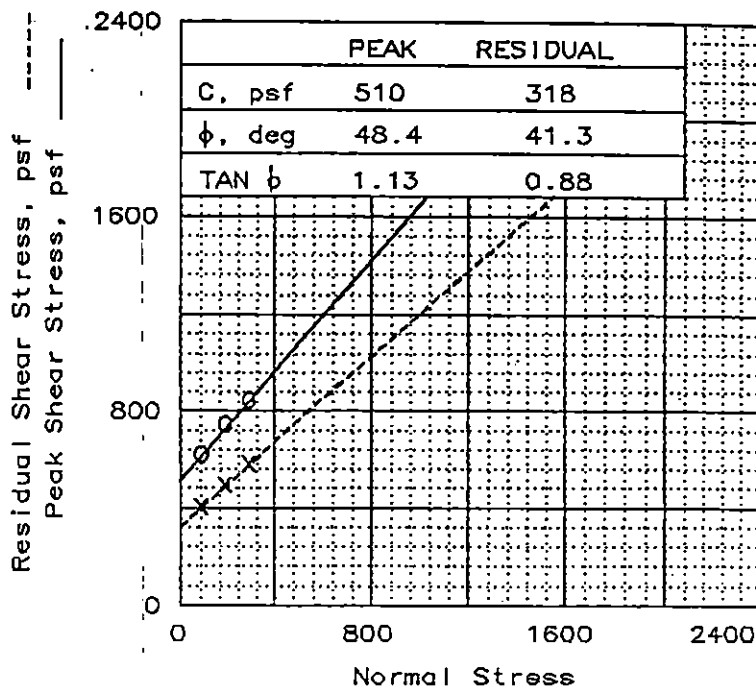
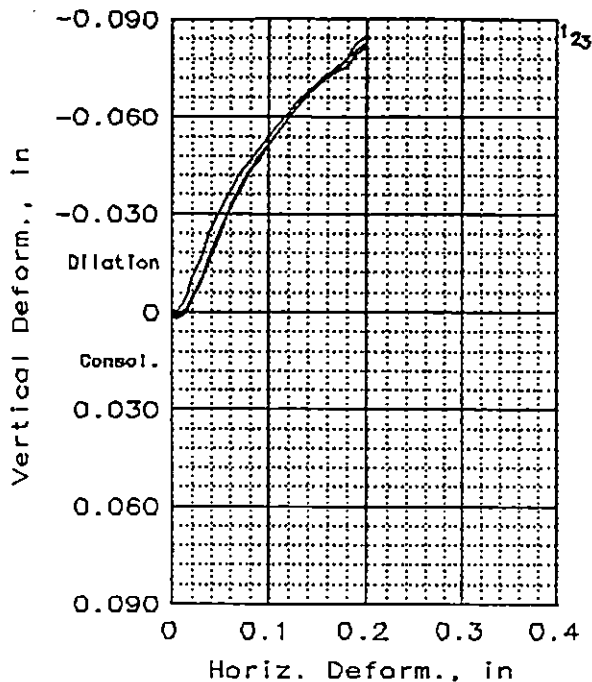
PROJECT: EAST NORTHPORT LANDFILL

SAMPLE LOCATION: S-41

PROJ. NO.: 94S1749-01 DATE: 6-26-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	7.5	7.5	7.5
	DRY DENSITY, pcf	116.4	116.4	116.4
	SATURATION, %	47.1	47.1	47.1
	VOID RATIO	0.421	0.421	0.421
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	7.5	7.5	7.5
	DRY DENSITY, pcf	116.4	116.4	116.4
	SATURATION, %	47.1	47.1	47.1
	VOID RATIO	0.421	0.421	0.421
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		619	743	844
RESIDUAL SHEAR, psf		405	495	581
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA

SAMPLE TYPE: ALT. SELECT FILL
DESCRIPTION: S-42, SELECT FILL

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS: ASTM D-3080

DIRECT SHEAR STRENGTH TEST

DRY CONDITION

SPECIFIC GRAVITY ASSUMED

FIG. NO. S-42

CLIENT: TOWN OF HUNTINGTON

PROJECT: EAST NORTHPORT LANDFILL

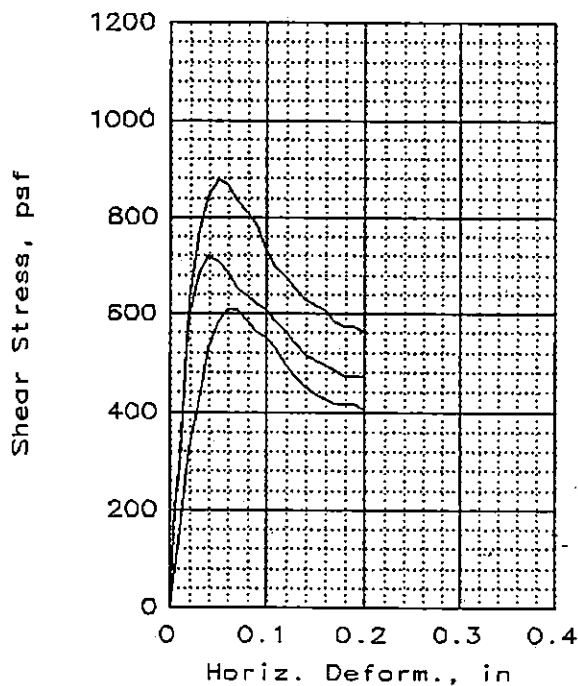
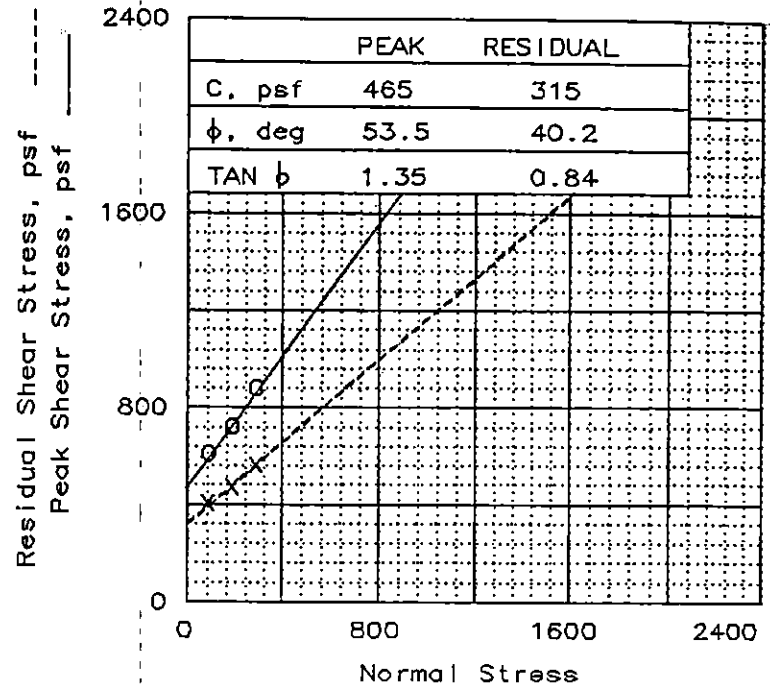
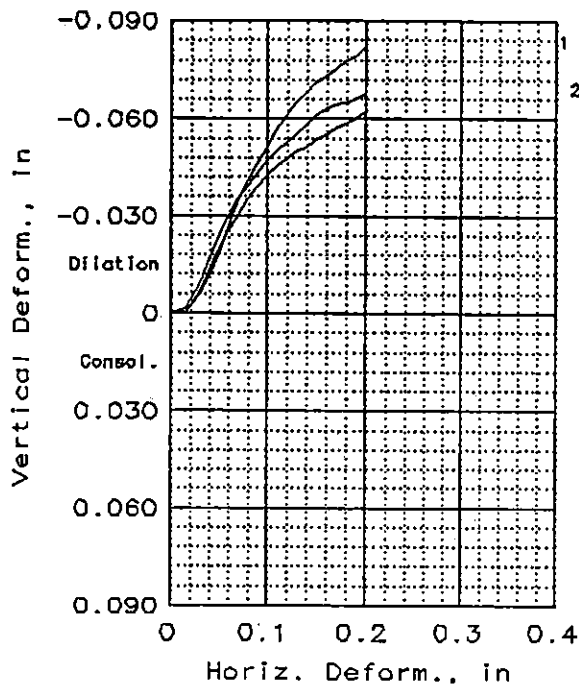
SAMPLE LOCATION: S-42

PROJ. NO.: 94S1749-01

DATE: 6-26-95

DIRECT SHEAR TEST REPORT.

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	7.8	7.8	7.8
	DRY DENSITY, pcf	114.5	114.5	114.5
	SATURATION, %	46.6	46.6	46.6
	VOID RATIO	0.445	0.445	0.445
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	7.8	7.8	7.8
	DRY DENSITY, pcf	114.5	114.5	114.5
	SATURATION, %	46.6	46.6	46.6
	VOID RATIO	0.445	0.445	0.445
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		608	720	878
RESIDUAL SHEAR, psf		405	473	563
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA

SAMPLE TYPE: ALT. SELECT FILL
DESCRIPTION: S-43, SELECT FILL

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS: ASTM D-3080

DIRECT SHEAR STRENGTH TEST
DRY CONDITION

SPECIFIC GRAVITY ASSUMED

FIG. NO. S-43

CLIENT: TOWN OF HUNTINGTON

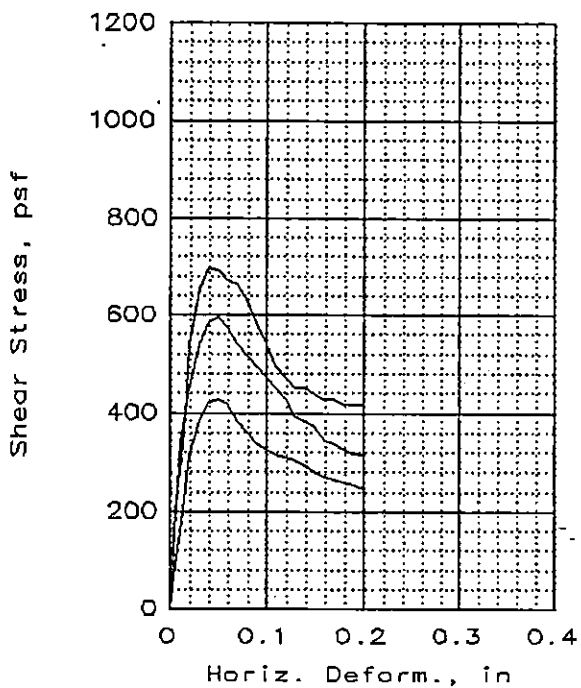
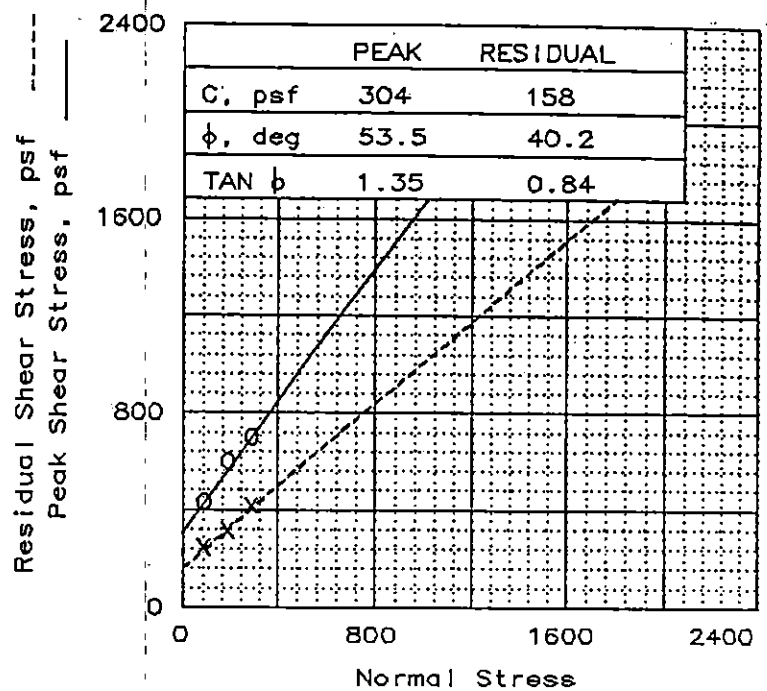
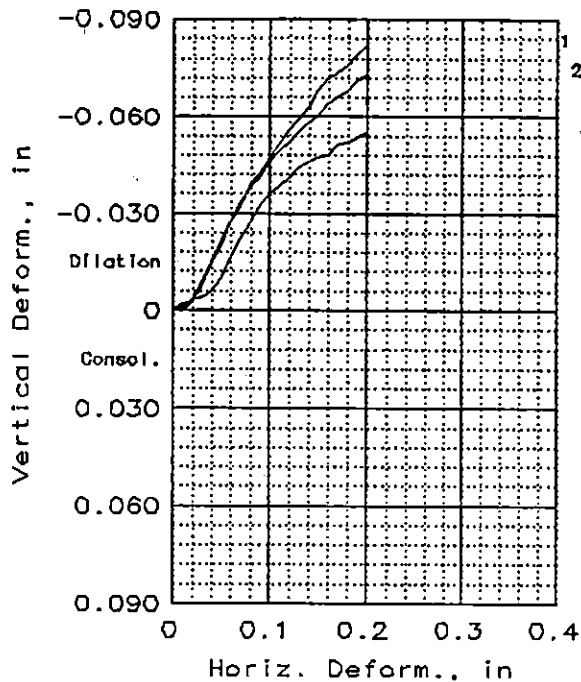
PROJECT: EAST NORTHPORT LANDFILL

SAMPLE LOCATION: S-43

PROJ. NO.: 94S1749-01 DATE: 6-26-95

DIRECT SHEAR TEST REPORT.

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	7.5	7.5	7.5
	DRY DENSITY, pcf	114.1	114.1	114.1
	SATURATION, %	44.0	44.0	44.0
	VOID RATIO	0.450	0.450	0.450
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	7.5	7.5	7.5
	DRY DENSITY, pcf	114.1	114.1	114.1
	SATURATION, %	44.0	44.0	44.0
	VOID RATIO	0.450	0.450	0.450
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		428	597	698
RESIDUAL SHEAR, psf		248	315	416
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA

SAMPLE TYPE: ALT. SELECT FILL
DESCRIPTION: S-44, SELECT FILL

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS: ASTM D-3080

DIRECT SHEAR STRENGTH TEST
DRY CONDITION

SPECIFIC GRAVITY ASSUMED

FIG. NO. S-44

CLIENT: TOWN OF HUNTINGTON

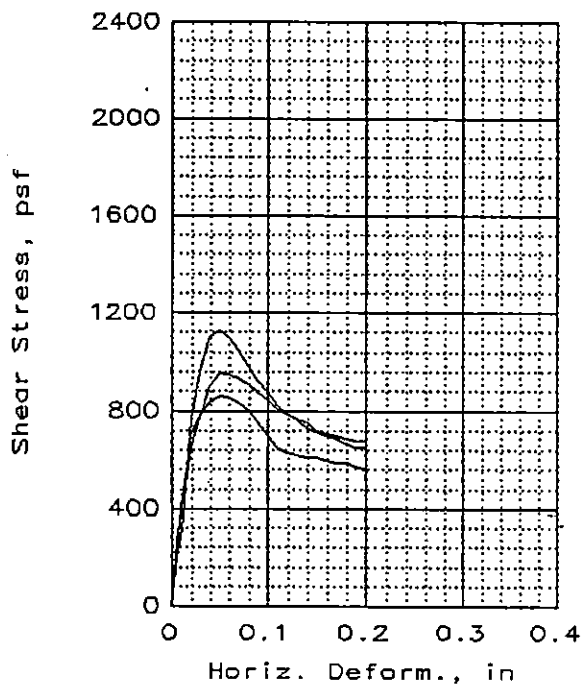
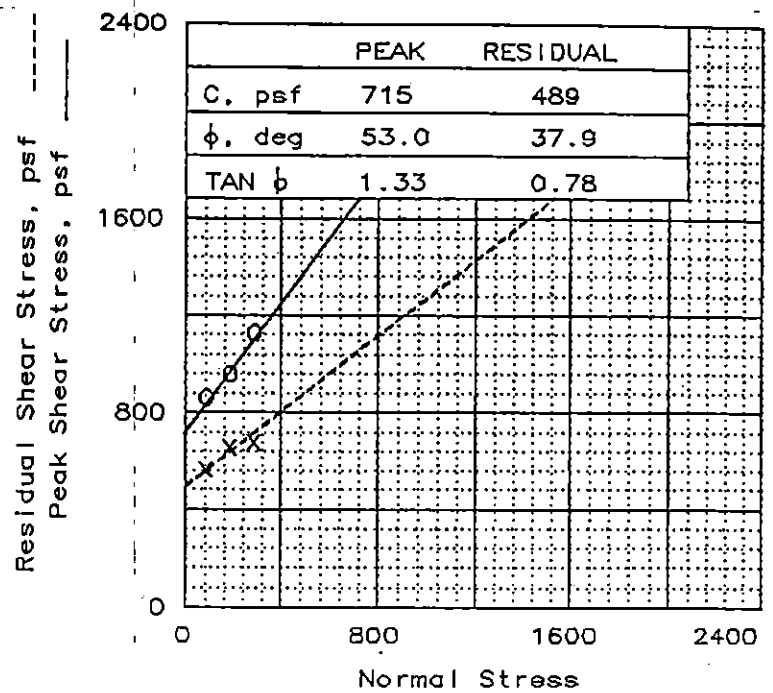
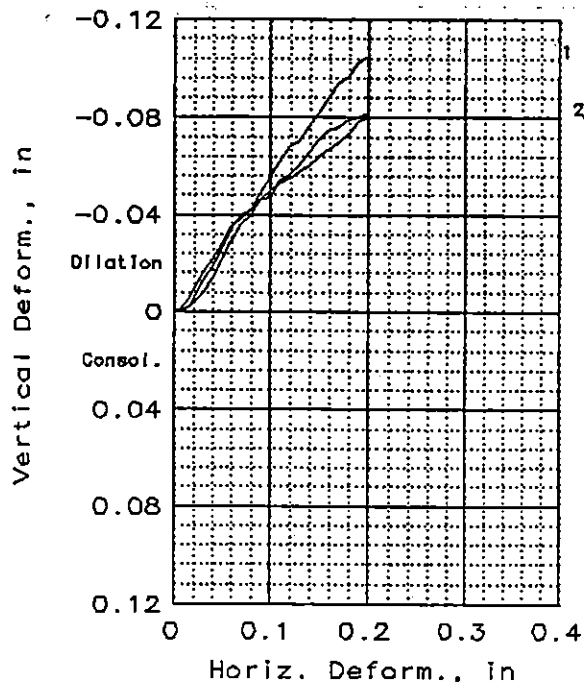
PROJECT: EAST NORTHPORT LANDFILL

SAMPLE LOCATION: S-44

PROJ. NO.: 94S1749-01 DATE: 6-26-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	7.5	7.5	7.5
	DRY DENSITY, pcf	118.4	118.4	118.4
	SATURATION, %	50.0	50.0	50.0
	VOID RATIO	0.398	0.398	0.398
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	7.5	7.5	7.5
	DRY DENSITY, pcf	118.4	118.4	118.4
	SATURATION, %	50.0	50.0	50.0
	VOID RATIO	0.398	0.398	0.398
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		860	957	1126
RESIDUAL SHEAR, psf		563	653	675
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA
 SAMPLE TYPE: ALT. SELECT FILL
 DESCRIPTION: S-45, SELECT FILL

LL= PL= PI=
 SPECIFIC GRAVITY= 2.65
 REMARKS: ASTM D-3080

DIRECT SHEAR STRENGTH TEST
 DRY CONDITION
 SPECIFIC GRAVITY ASSUMED
 FIG. NO. S-45

CLIENT: TOWN OF HUNTINGTON

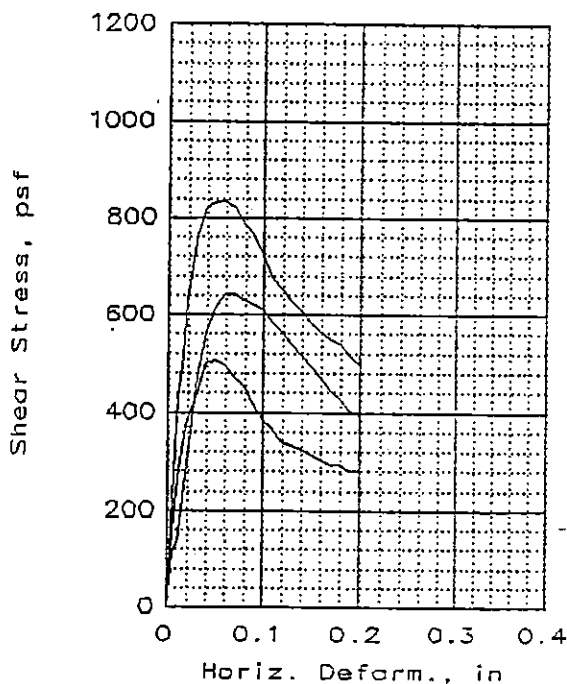
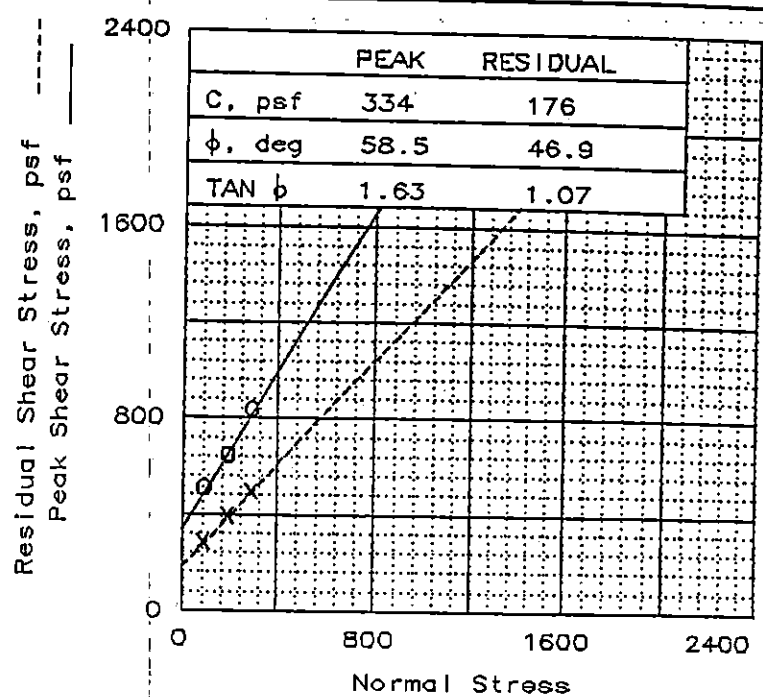
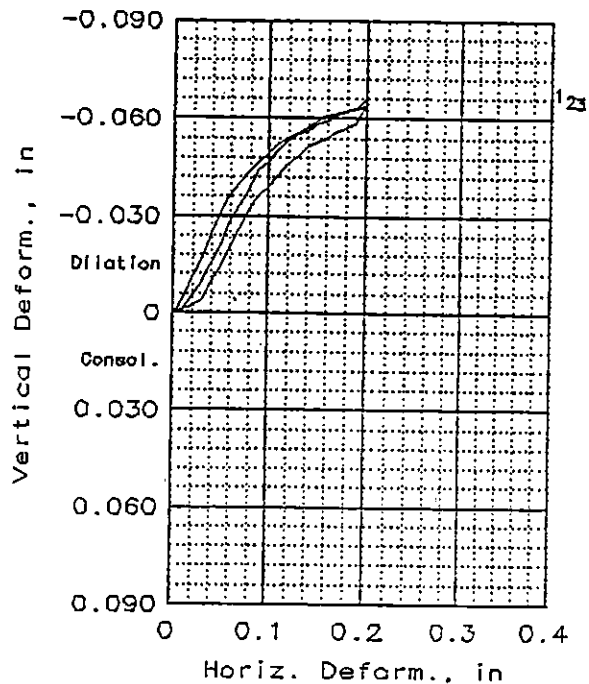
PROJECT: EAST NORTHPORT LANDFILL

SAMPLE LOCATION: S-45

PROJ. NO. 94S1749-01 DATE: 6-26-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	7.5	7.5	7.5
	DRY DENSITY, pcf	113.5	113.5	113.5
	SATURATION, %	43.4	43.4	43.4
	VOID RATIO	0.458	0.458	0.458
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	7.5	7.5	7.5
	DRY DENSITY, pcf	113.5	113.5	113.5
	SATURATION, %	43.4	43.4	43.4
	VOID RATIO	0.458	0.458	0.458
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		506	642	833
RESIDUAL SHEAR, psf		281	394	495
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA
 SAMPLE TYPE: ALT. SELECT FILL
 DESCRIPTION: S-46, SELECT FILL

LL= PL= PI=
 SPECIFIC GRAVITY= 2.65
 REMARKS: ASTM D-3080
 DIRECT SHEAR STRENGTH TEST
 DRY CONDITION
 SPECIFIC GRAVITY ASSUMED
 FIG. NO. S-46

CLIENT: TOWN OF HUNTINGTON

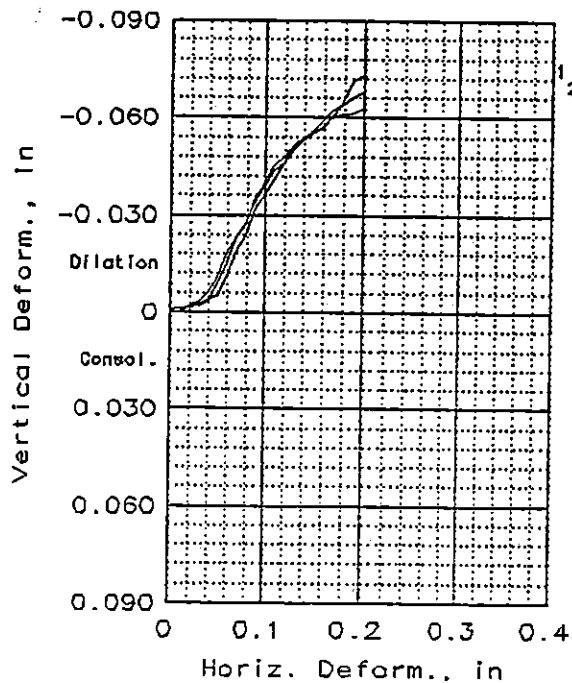
PROJECT: EAST NORTHPORT LANDFILL

SAMPLE LOCATION: S-46

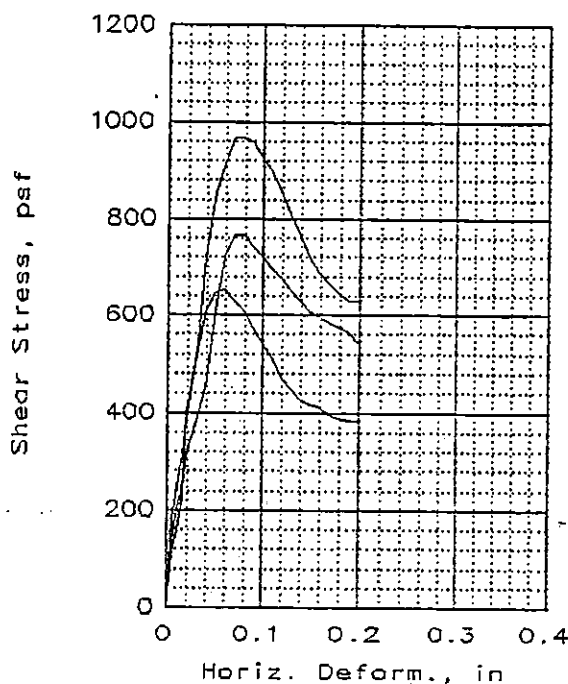
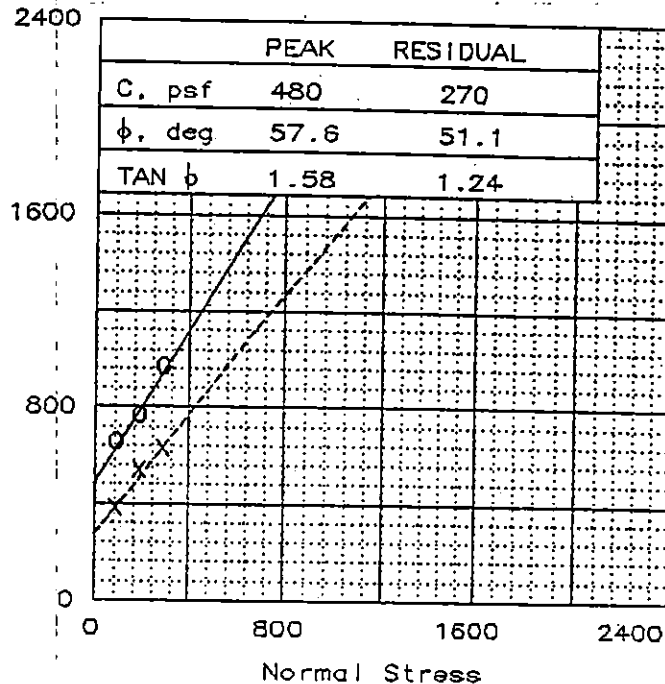
PROJ. NO.: 94S1749-01 DATE: 6-28-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.



Residual Shear Stress, psf
Peak Shear Stress, psf



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	7.6	7.6	7.6
	DRY DENSITY, pcf	113.8	113.8	113.8
	SATURATION, %	44.4	44.4	44.4
	VOID RATIO	0.453	0.453	0.453
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	7.6	7.6	7.6
	DRY DENSITY, pcf	113.8	113.8	113.8
	SATURATION, %	44.4	44.4	44.4
	VOID RATIO	0.453	0.453	0.453
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		653	765	968
RESIDUAL SHEAR, psf		383	540	630
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA

SAMPLE TYPE: ALT. SELECT FILL
DESCRIPTION: S-47, SELECT FILL

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS: ASTM D-3080

DIRECT SHEAR STRENGTH TEST
DRY CONDITION

SPECIFIC GRAVITY ASSUMED

FIG. NO. S-47

CLIENT: TOWN OF HUNTINGTON

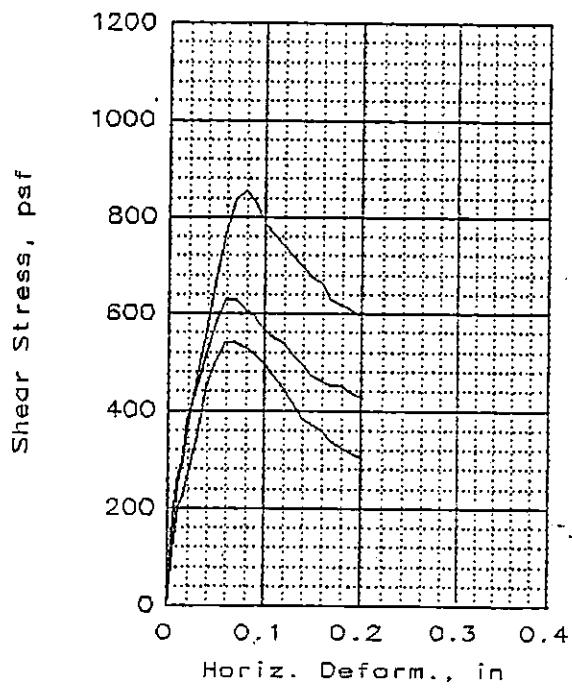
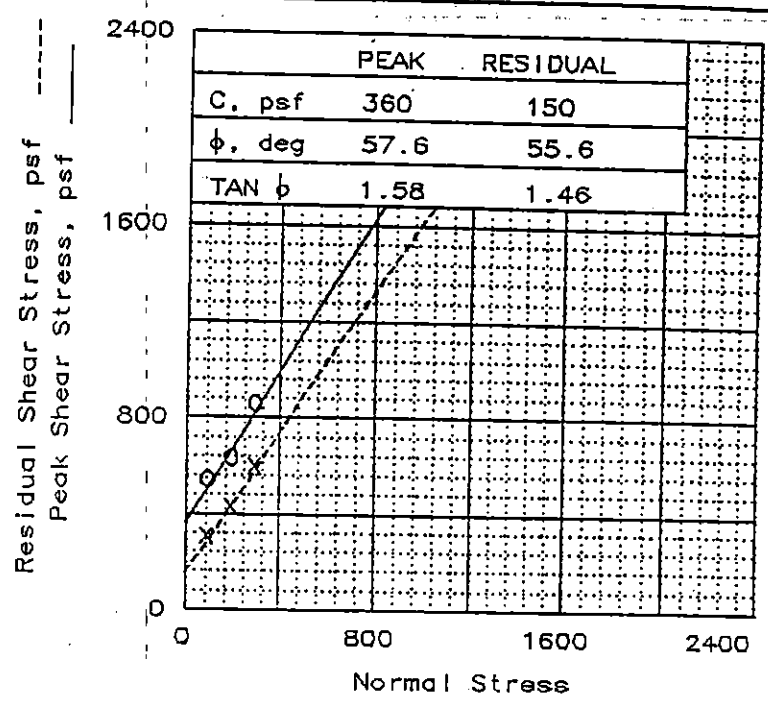
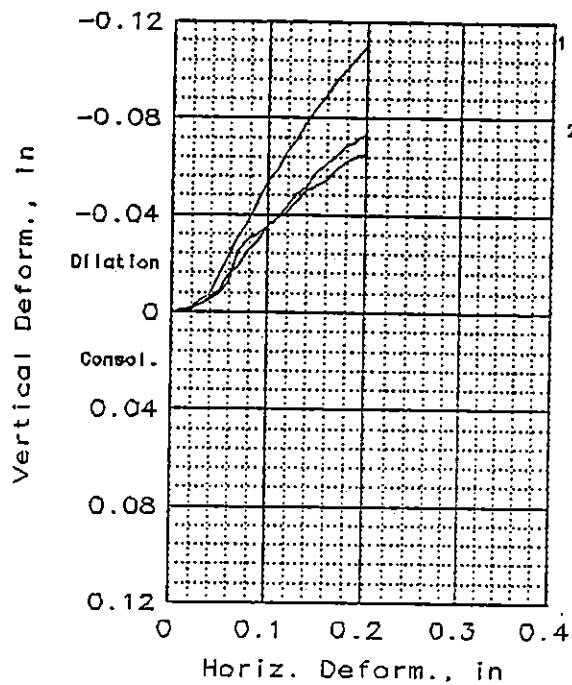
PROJECT: EAST NORTHPORT LANDFILL

SAMPLE LOCATION: S-47

PROJ. NO.: 94S1749-01 DATE: 6-28-95

DIRECT SHEAR TEST REPORT

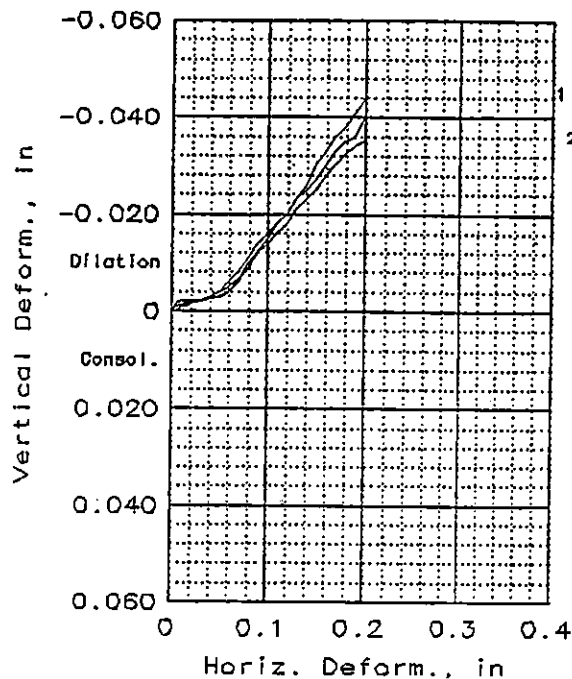
J & L TESTING CO., INC.



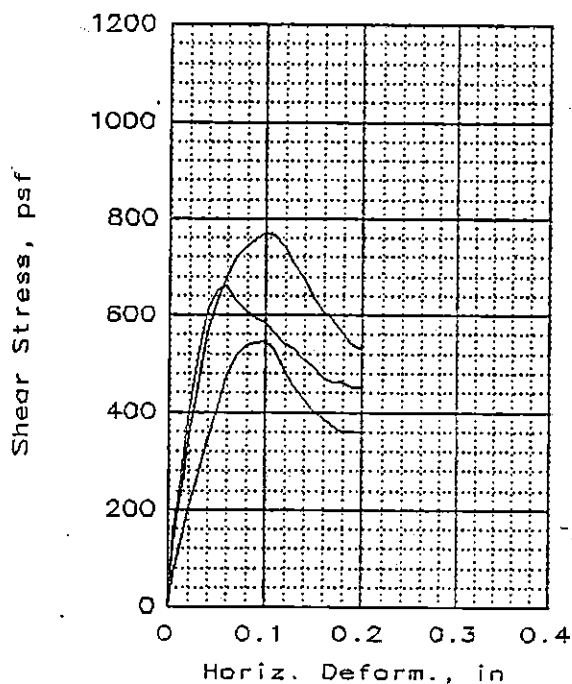
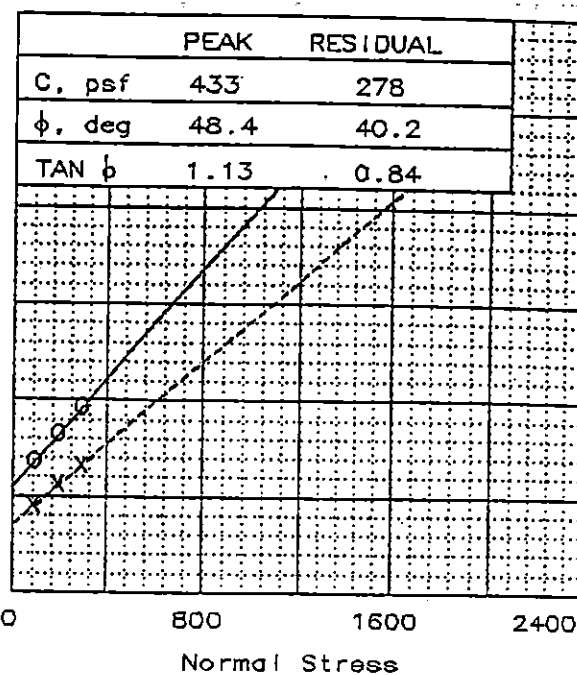
SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	7.5	7.5	7.5
	DRY DENSITY, pcf	116.4	116.4	116.4
	SATURATION, %	47.1	47.1	47.1
	VOID RATIO	0.422	0.422	0.422
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	7.5	7.5	7.5
	DRY DENSITY, pcf	116.4	116.4	116.4
	SATURATION, %	47.1	47.1	47.1
	VOID RATIO	0.422	0.422	0.422
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		540	630	855
RESIDUAL SHEAR, psf		304	428	597
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA
 SAMPLE TYPE: ALT. SELECT FILL
 DESCRIPTION: S-48, SELECT FILL
 LL= PL= PI=
 SPECIFIC GRAVITY= 2.65
 REMARKS: ASTM D-3080
 DIRECT SHEAR STRENGTH TEST
 DRY CONDITION
 SPECIFIC GRAVITY ASSUMED
 FIG. NO. S-48

CLIENT: TOWN OF HUNTINGTON
 PROJECT: EAST NORTHPORT LANDFILL
 SAMPLE LOCATION: S-48
 PROJ. NO.: 94S1749-01 DATE: 6-28-95
 DIRECT SHEAR TEST REPORT
J & L TESTING CO., INC.



Residual Shear Stress, psf
Peak Shear Stress, psf



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	7.5	7.5	7.5
	DRY DENSITY, pcf	113.7	113.7	113.7
	SATURATION, %	43.6	43.6	43.6
	VOID RATIO	0.455	0.455	0.455
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	7.5	7.5	7.5
	DRY DENSITY, pcf	113.7	113.7	113.7
	SATURATION, %	43.6	43.6	43.6
	VOID RATIO	0.455	0.455	0.455
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		545	660	770
RESIDUAL SHEAR, psf		360	450	529
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA

SAMPLE TYPE: ALT. SELECT FILL
DESCRIPTION: S-49, SELECT FILL

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS: ASTM D-3080

DIRECT SHEAR STRENGTH TEST
DRY CONDITION

SPECIFIC GRAVITY ASSUMED

FIG. NO. S-49

CLIENT: TOWN OF HUNTINGTON

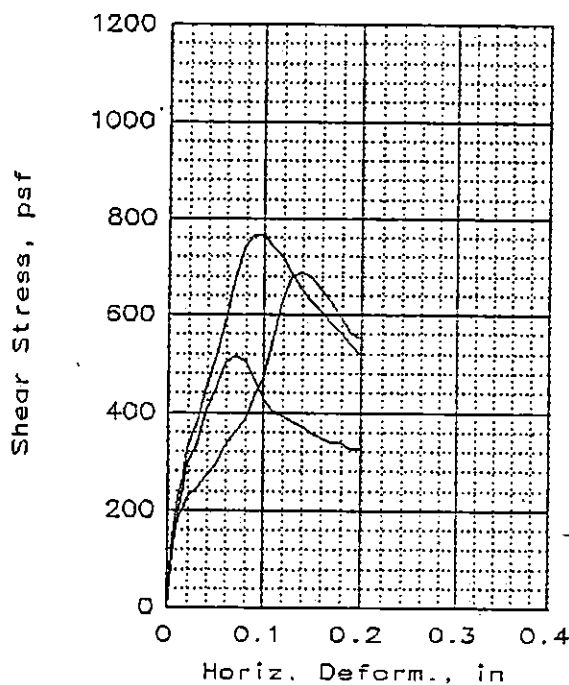
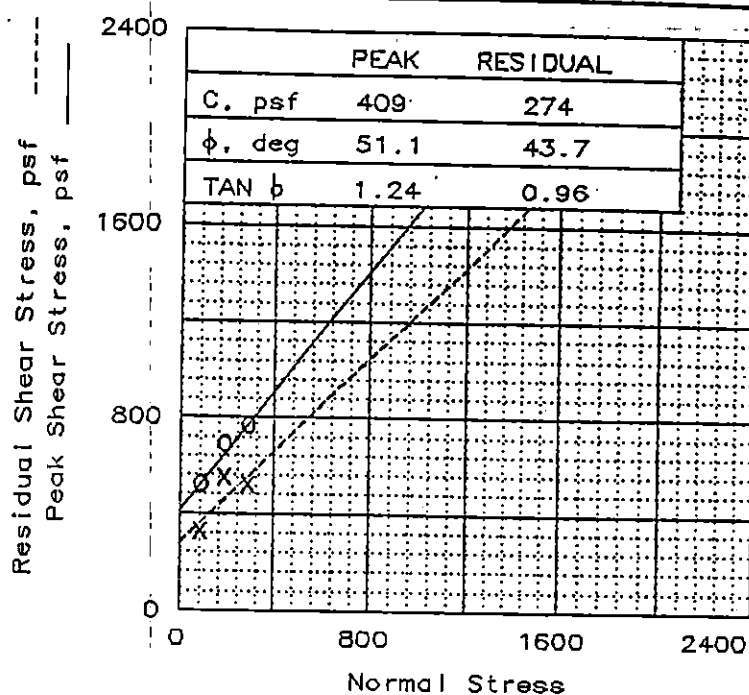
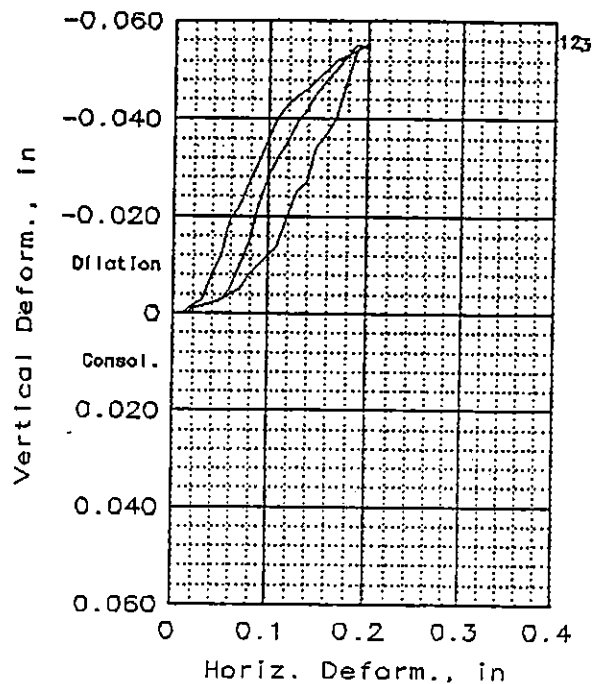
PROJECT: EAST NORTHPORT LANDFILL

SAMPLE LOCATION: S-49

PROJ. NO.: 94S1749-01 DATE: 6-28-95

DIRECT SHEAR TEST REPORT

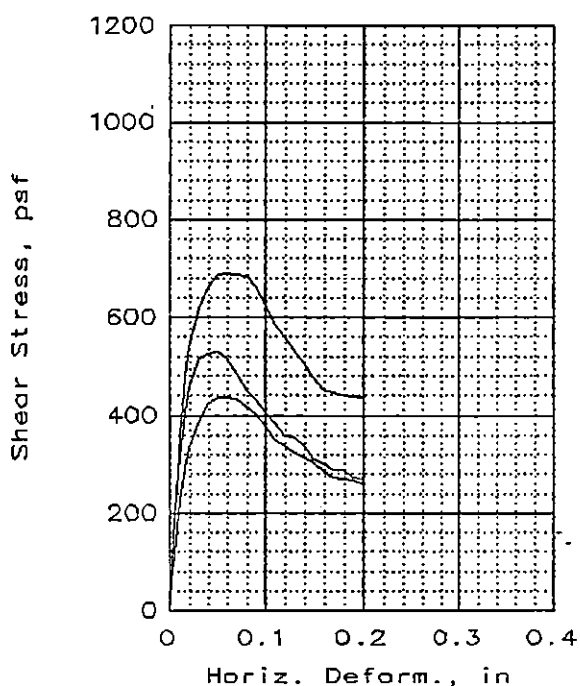
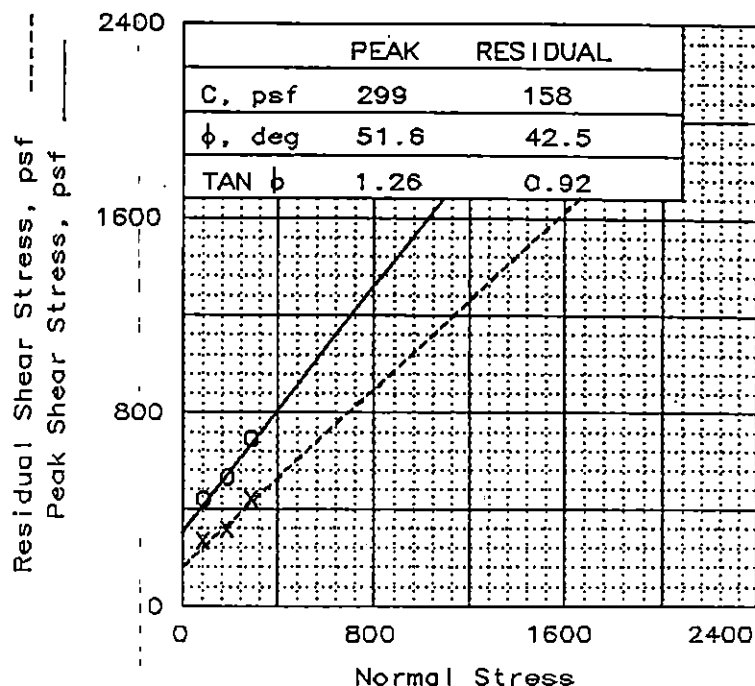
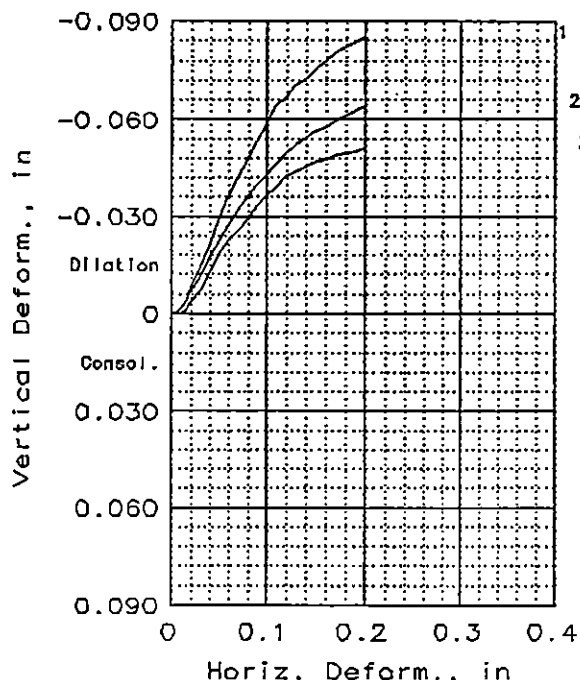
J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	8.2	8.2	8.2
	DRY DENSITY, pcf	115.0	115.0	115.0
	SATURATION, %	49.6	49.6	49.6
	VOID RATIO	0.438	0.438	0.438
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	8.2	8.2	8.2
	DRY DENSITY, pcf	115.0	115.0	115.0
	SATURATION, %	49.6	49.6	49.6
	VOID RATIO	0.438	0.438	0.438
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		518	687	765
RESIDUAL SHEAR, psf		326	551	518
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA
 SAMPLE TYPE: ALT. SELECT FILL
 DESCRIPTION: S-50, SELECT FILL
 LL= PL= PI=
 SPECIFIC GRAVITY= 2.65
 REMARKS: ASTM D-3080
 DIRECT SHEAR STRENGTH TEST
 DRY CONDITION
 SPECIFIC GRAVITY ASSUMED
 FIG. NO. S-50

CLIENT: TOWN OF HUNTINGTON
 PROJECT: EAST NORTHPORT LANDFILL
 SAMPLE LOCATION: S-50
 PROJ. NO.: 94S1749-01 DATE: 6-28-95
 DIRECT SHEAR TEST REPORT
J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	7.7	7.7	7.7
	DRY DENSITY, pcf	115.7	115.7	115.7
	SATURATION, %	47.5	47.5	47.5
	VOID RATIO	0.430	0.430	0.430
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	7.7	7.7	7.7
	DRY DENSITY, pcf	115.7	115.7	115.7
	SATURATION, %	47.5	47.5	47.5
	VOID RATIO	0.430	0.430	0.430
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		437	529	689
RESIDUAL SHEAR, psf		268	313	439
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA

SAMPLE TYPE: ALTERNATE SELECT

DESCRIPTION: S-51, SELECT FILL

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS: ASTM D-3080

DIRECT SHEAR STRENGTH TESTING

DRY CONDITION,

SPECIFIC GRAVITY ASSUMED

FIG. NO. S-51

CLIENT: TOWN OF HUNTINGTON

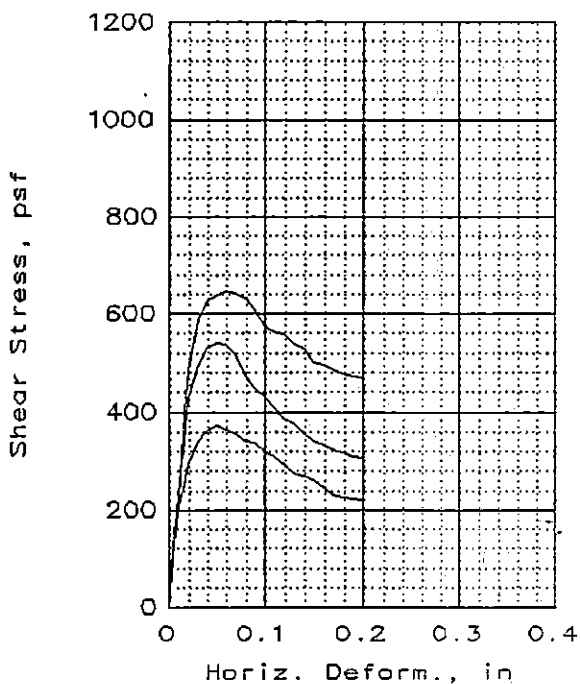
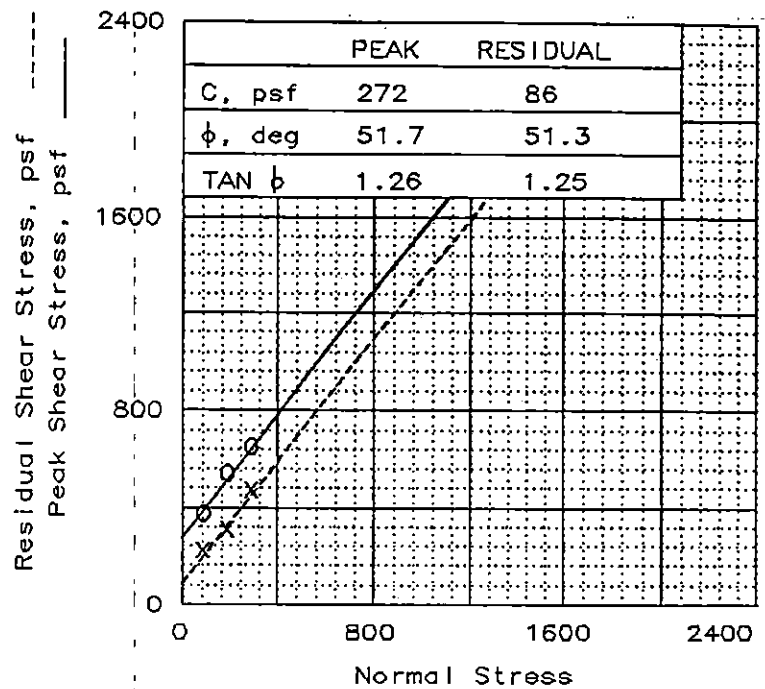
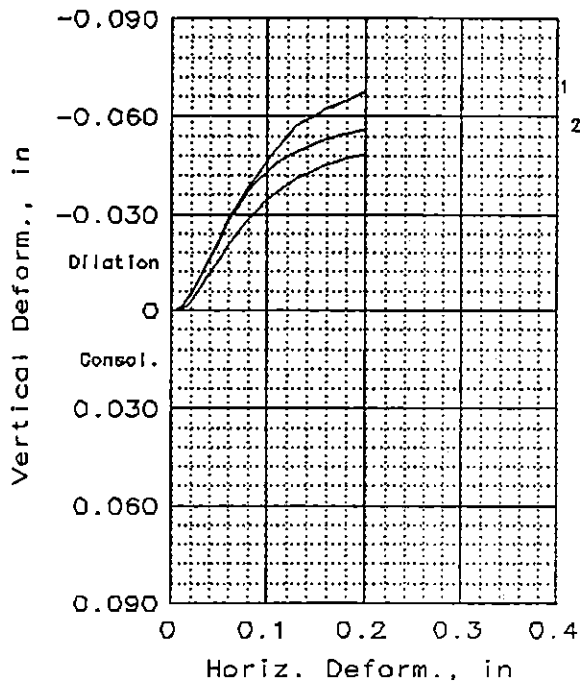
PROJECT: EAST NORTHPORT LANDFILL

SAMPLE LOCATION: S-51

PROJ. NO.: 94S1749-01 DATE: 07-14-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	7.5	7.5	7.5
	DRY DENSITY, pcf	113.9	113.9	113.9
	SATURATION, %	43.9	43.9	43.9
	VOID RATIO	0.453	0.453	0.453
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	7.5	7.5	7.5
	DRY DENSITY, pcf	113.9	113.9	113.9
	SATURATION, %	43.9	43.9	43.9
	VOID RATIO	0.453	0.453	0.453
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		371	540	648
RESIDUAL SHEAR, psf		223	311	473
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA

SAMPLE TYPE: ALTERNATE SELECT
DESCRIPTION: S-52, SELECT FILL

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS: ASTM D-3080

DIRECT SHEAR STRENGTH TESTING
DRY CONDITION,

SPECIFIC GRAVITY ASSUMED

FIG. NO. S-52

CLIENT: TOWN OF HUNTINGTON

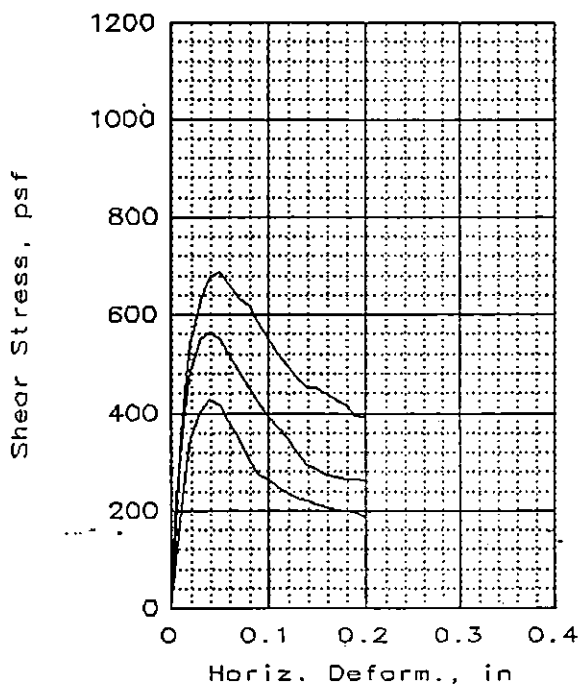
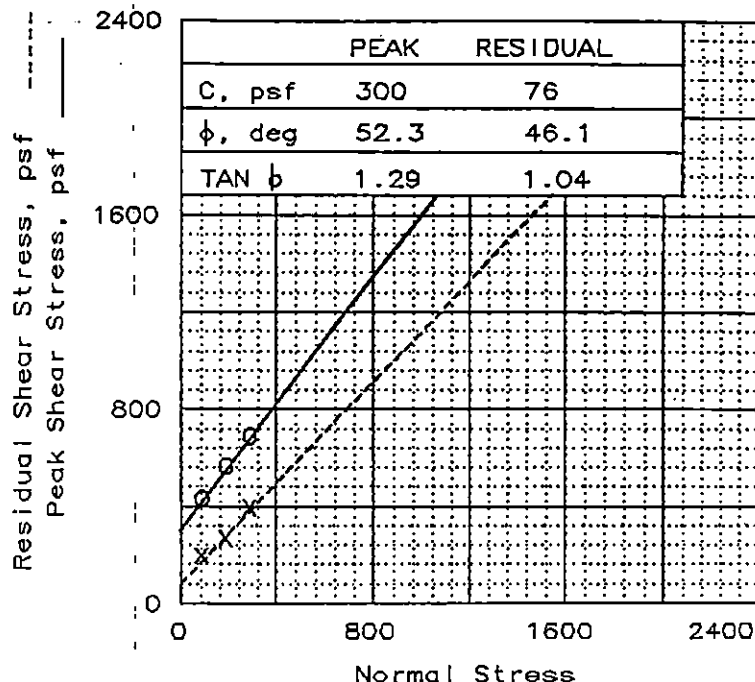
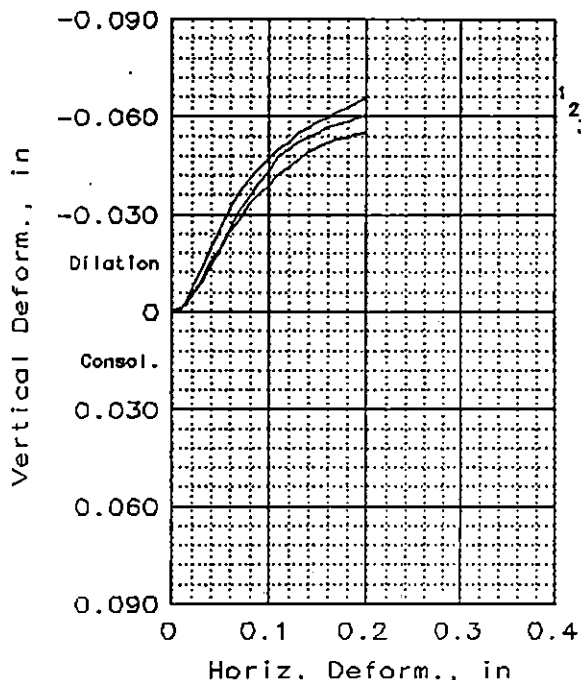
PROJECT: EAST NORTHPORT LANDFILL

SAMPLE LOCATION: S-52

PROJ. NO.: 94S1749-01 DATE: 07-14-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	7.3	7.3	7.3
	DRY DENSITY, pcf	118.4	118.4	118.4
	SATURATION, %	48.8	48.8	48.8
	VOID RATIO	0.397	0.397	0.397
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	7.3	7.3	7.3
	DRY DENSITY, pcf	118.4	118.4	118.4
	SATURATION, %	48.8	48.8	48.8
	VOID RATIO	0.397	0.397	0.397
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		428	563	687
RESIDUAL SHEAR, psf		196	266	394
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA

SAMPLE TYPE: ALTERNATE SELECT
DESCRIPTION: S-53, SELECT FILL

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS: ASTM D-3080

DIRECT SHEAR STRENGTH TESTING
DRY CONDITION,

SPECIFIC GRAVITY ASSUMED

FIG. NO. S-53

CLIENT: TOWN OF HUNTINGTON

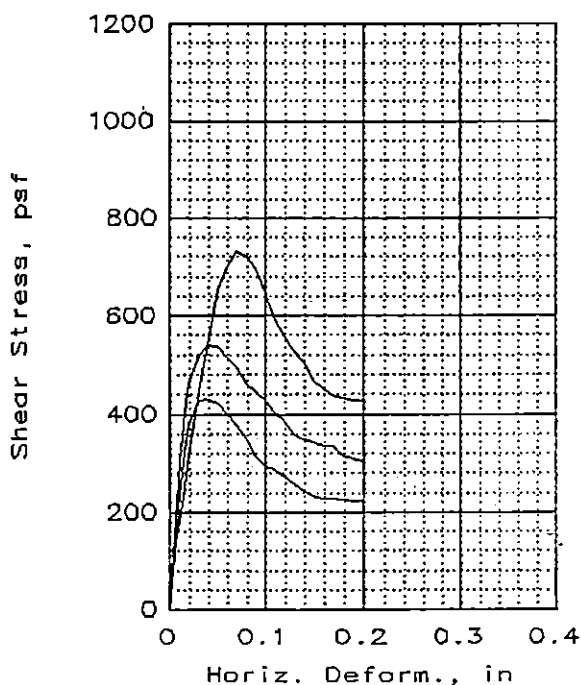
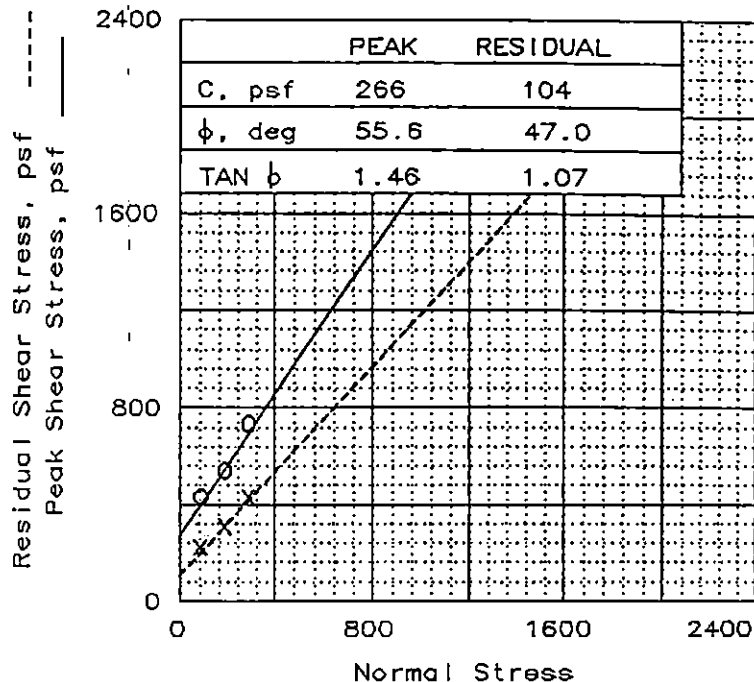
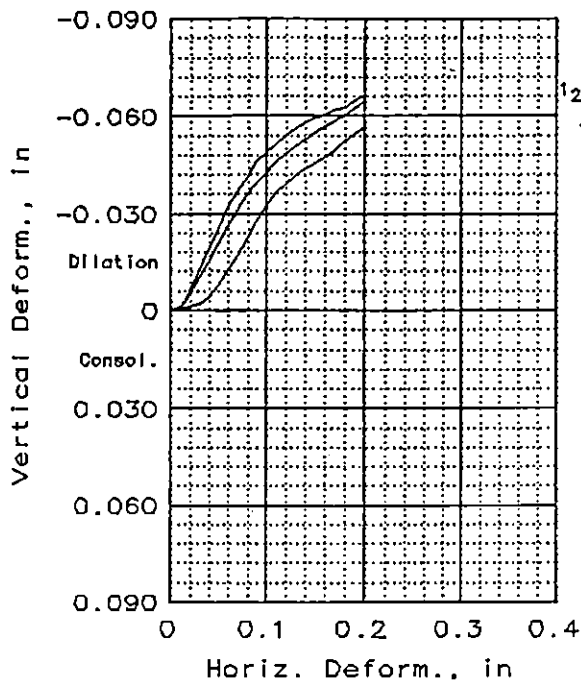
PROJECT: EAST NORTHPORT LANDFILL

SAMPLE LOCATION: S-53

PROJ. NO.: 94S1749-01 DATE: 07-14-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	7.6	7.6	7.6
	DRY DENSITY, pcf	114.4	114.4	114.4
	SATURATION, %	45.1	45.1	45.1
	VOID RATIO	0.446	0.446	0.446
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	7.6	7.6	7.6
	DRY DENSITY, pcf	114.4	114.4	114.4
	SATURATION, %	45.1	45.1	45.1
	VOID RATIO	0.446	0.446	0.446
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		430	540	732
RESIDUAL SHEAR, psf		223	308	428
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA
SAMPLE TYPE: ALTERNATE SELECT
DESCRIPTION: S-54, SELECT FILL

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS: ASTM D-3080

DIRECT SHEAR STRENGTH TESTING
DRY CONDITION,
SPECIFIC GRAVITY ASSUMED
FIG. NO. S-54

CLIENT: TOWN OF HUNTINGTON

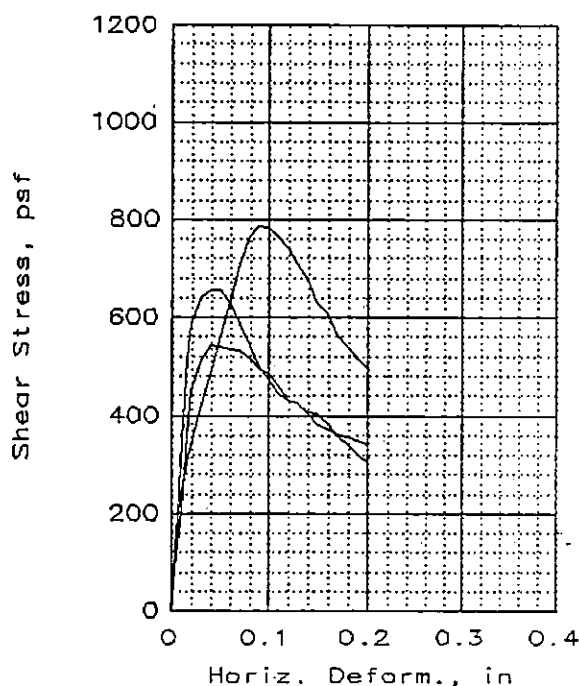
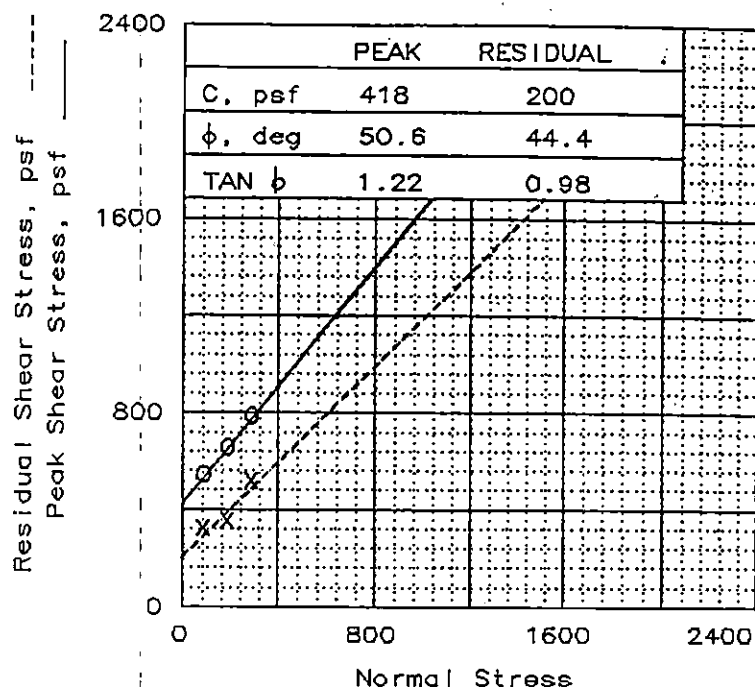
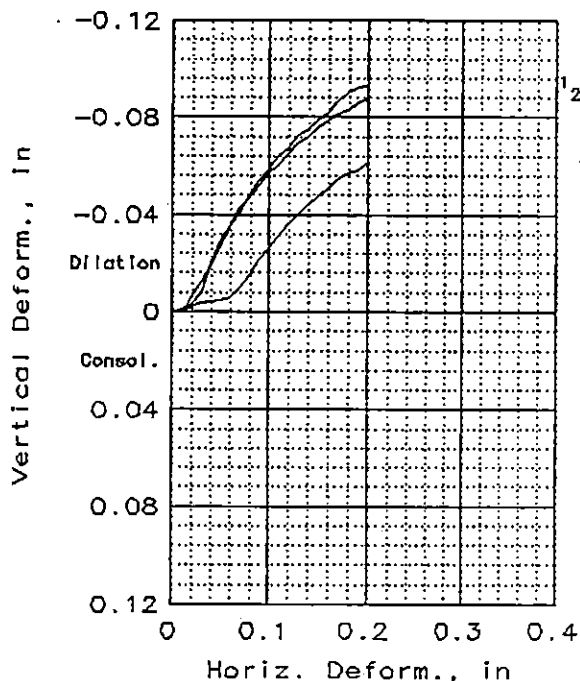
PROJECT: EAST NORTHPORT LANDFILL

SAMPLE LOCATION: S-54

PROJ. NO.: 94S1749-01 DATE: 07-14-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	7.8	7.8	7.8
	DRY DENSITY, pcf	117.8	117.8	117.8
	SATURATION, %	51.1	51.1	51.1
	VOID RATIO	0.404	0.404	0.404
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	7.8	7.8	7.8
	DRY DENSITY, pcf	117.8	117.8	117.8
	SATURATION, %	51.1	51.1	51.1
	VOID RATIO	0.404	0.404	0.404
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		542	655	786
RESIDUAL SHEAR, psf		322	349	518
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA

SAMPLE TYPE: ALTERNATE SELECT
DESCRIPTION: S-55, SELECT FILL

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS: ASTM D-3080

DIRECT SHEAR STRENGTH TESTING
DRY CONDITION,

SPECIFIC GRAVITY ASSUMED

FIG. NO. S-55

CLIENT: TOWN OF HUNTINGTON

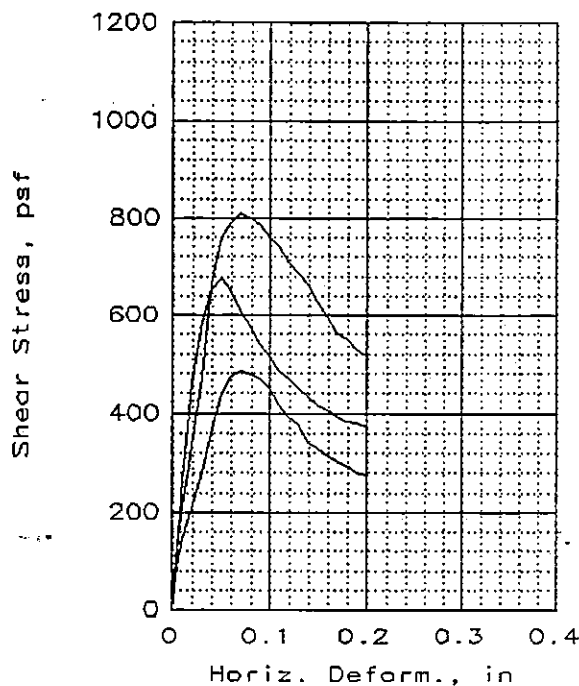
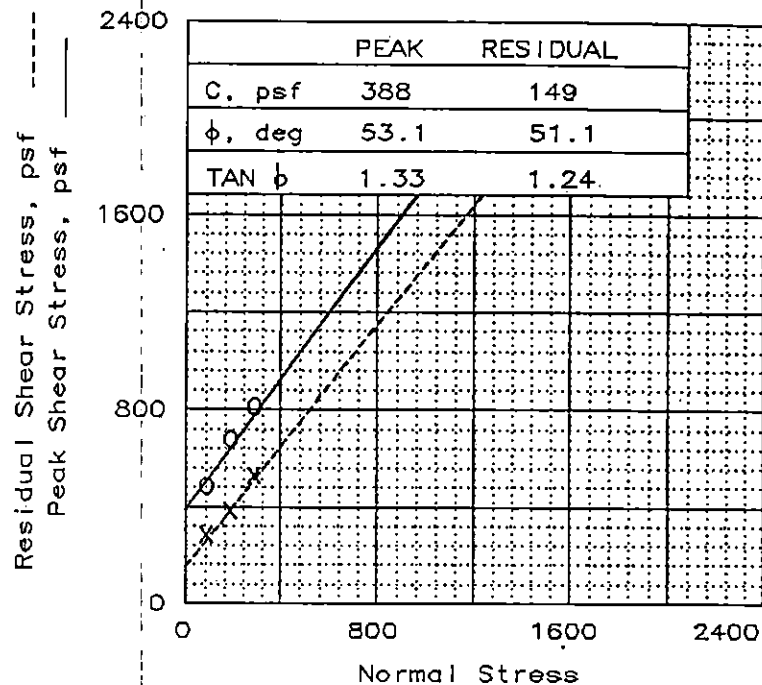
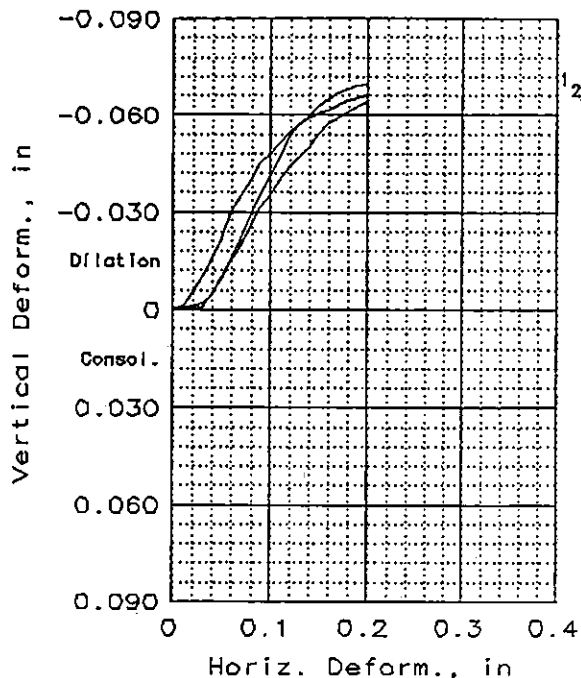
PROJECT: EAST NORTHPORT LANDFILL

SAMPLE LOCATION: S-55

PROJ. NO.: 94S1749-01 DATE: 07-14-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	8.0	8.0	8.0
	DRY DENSITY, pcf	115.3	115.3	115.3
	SATURATION, %	48.7	48.7	48.7
	VOID RATIO	0.435	0.435	0.435
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	8.0	8.0	8.0
	DRY DENSITY, pcf	115.3	115.3	115.3
	SATURATION, %	48.7	48.7	48.7
	VOID RATIO	0.435	0.435	0.435
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		484	675	810
RESIDUAL SHEAR, psf		281	380	529
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA

SAMPLE TYPE: ALTERNATE SELECT
DESCRIPTION: S-56, SELECT FILL

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS: ASTM D-3080

DIRECT SHEAR STRENGTH TESTING
DRY CONDITION,

SPECIFIC GRAVITY ASSUMED

FIG. NO. S-56

CLIENT: TOWN OF HUNTINGTON

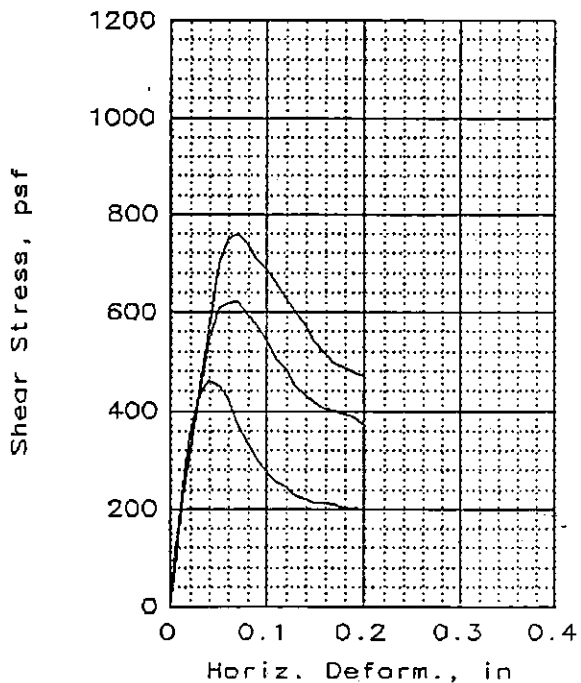
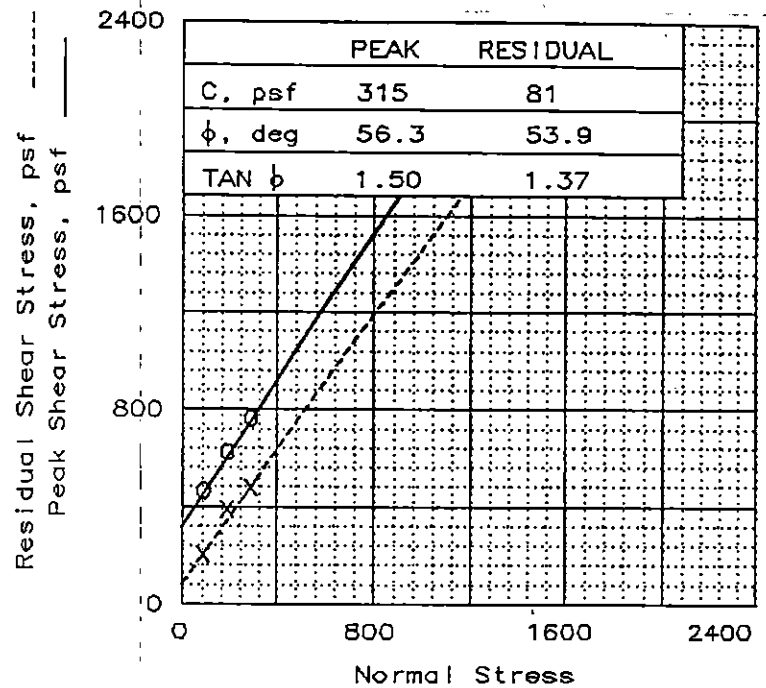
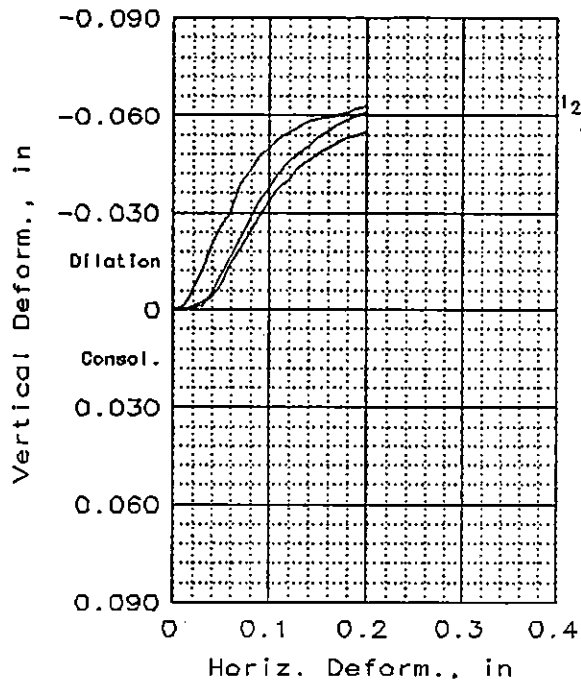
PROJECT: EAST NORTHPORT LANDFILL

SAMPLE LOCATION: S-56

PROJ. NO.: 94S1749-01 DATE: 07-14-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	7.5	7.5	7.5
	DRY DENSITY, pcf	116.7	116.7	116.7
	SATURATION, %	47.6	47.6	47.6
	VOID RATIO	0.418	0.418	0.418
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	7.5	7.5	7.5
	DRY DENSITY, pcf	116.7	116.7	116.7
	SATURATION, %	47.6	47.6	47.6
	VOID RATIO	0.418	0.418	0.418
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		461	621	761
RESIDUAL SHEAR, psf		203	387	477
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA
SAMPLE TYPE: ALTERNATE SELECT
DESCRIPTION: S-57, SELECT FILL

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS: ASTM D-3080

DIRECT SHEAR STRENGTH TESTING
DRY CONDITION,

SPECIFIC GRAVITY ASSUMED

FIG. NO. S-57

CLIENT: TOWN OF HUNTINGTON

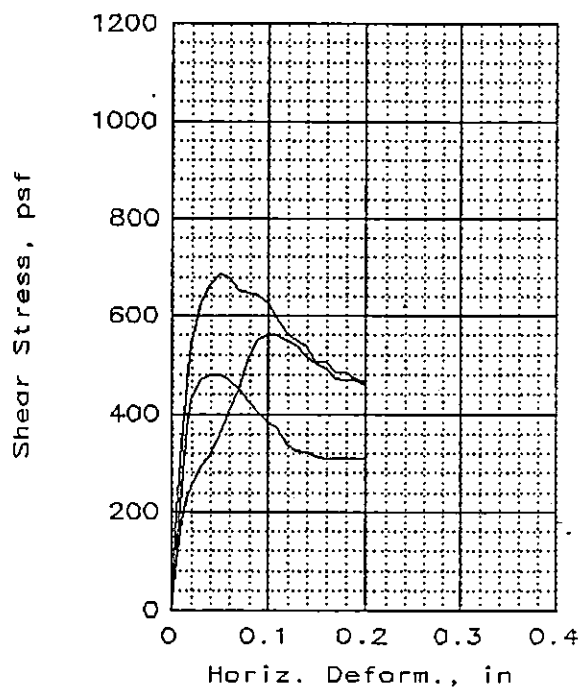
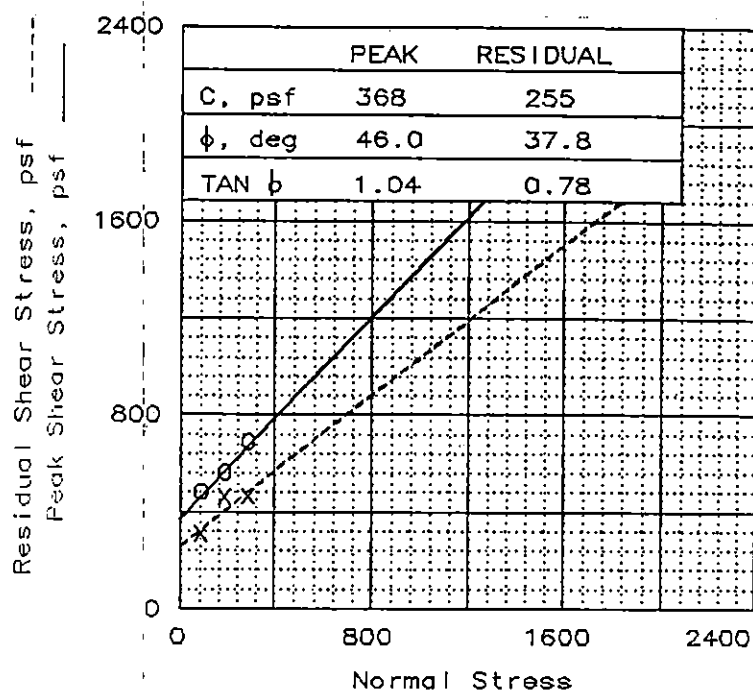
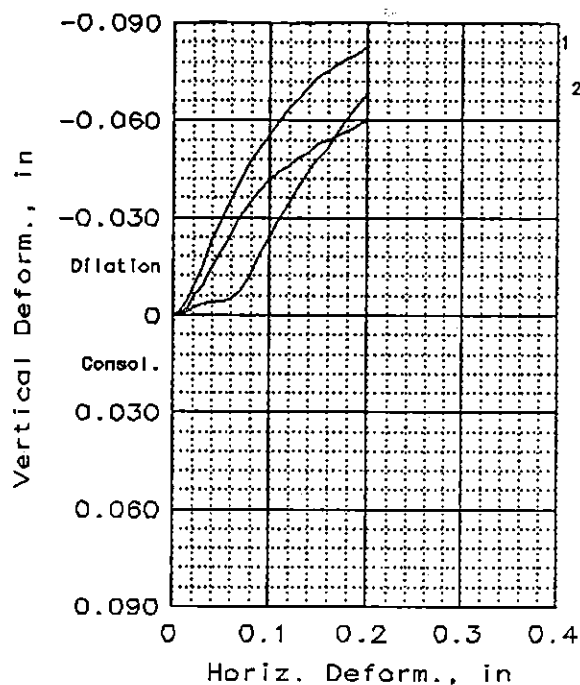
PROJECT: EAST NORTHPORT LANDFILL

SAMPLE LOCATION: S-57

PROJ. NO.: 94S1749-01 DATE: 07-14-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	7.5	7.5	7.5
	DRY DENSITY, pcf	114.4	114.4	114.4
	SATURATION, %	44.5	44.5	44.5
	VOID RATIO	0.446	0.446	0.446
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	7.5	7.5	7.5
	DRY DENSITY, pcf	114.4	114.4	114.4
	SATURATION, %	44.5	44.5	44.5
	VOID RATIO	0.446	0.446	0.446
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		479	561	687
RESIDUAL SHEAR, psf		308	459	464
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA

SAMPLE TYPE: ALTERNATE SELECT
DESCRIPTION: S-58, SELECT FILL

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS: ASTM D-3080

DIRECT SHEAR STRENGTH TESTING
DRY CONDITION,
SPECIFIC GRAVITY ASSUMED

FIG. NO. S-58

CLIENT: TOWN OF HUNTINGTON

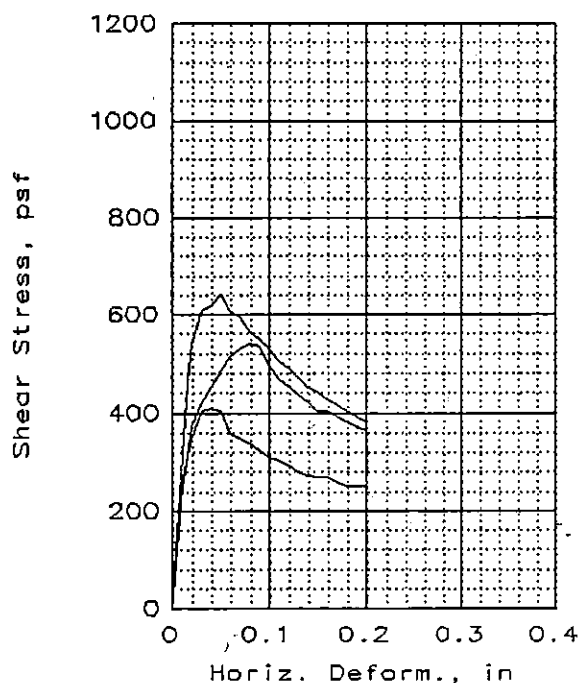
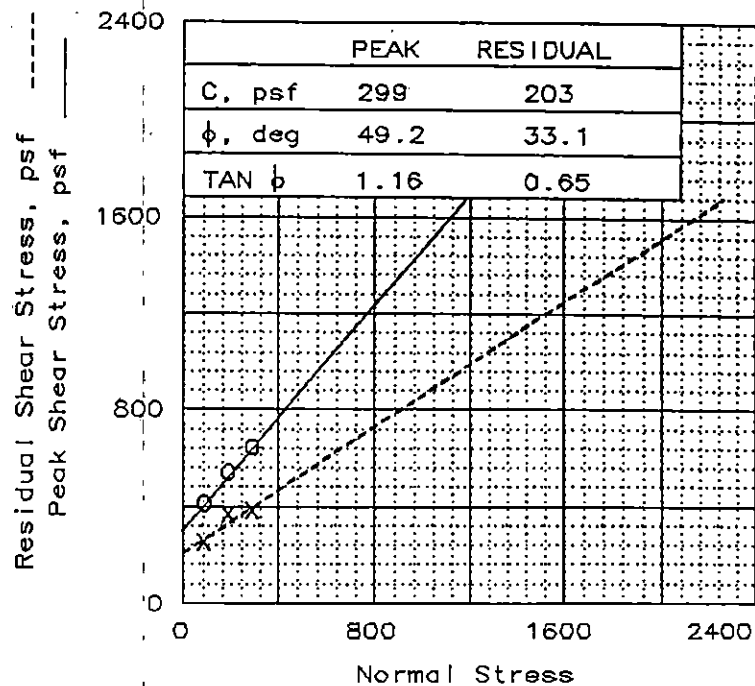
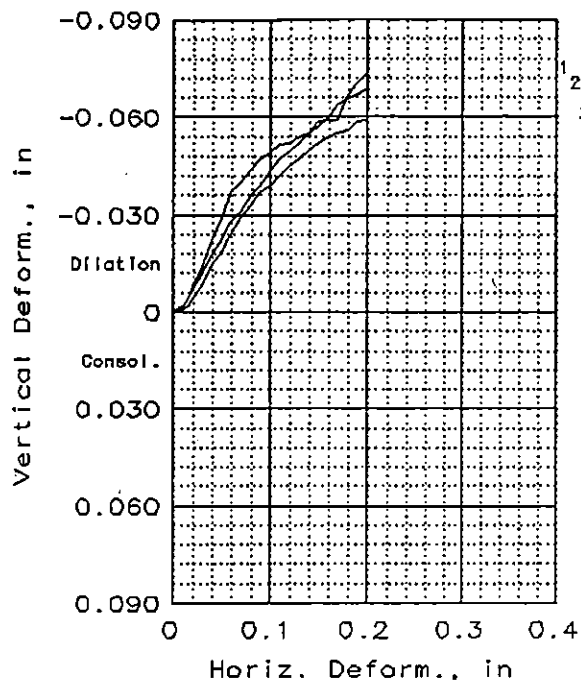
PROJECT: EAST NORTHPORT LANDFILL

SAMPLE LOCATION: S-58

PROJ. NO.: 94S1749-01 DATE: 07-21-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	7.7	7.7	7.7
	DRY DENSITY, pcf	114.9	114.9	114.9
	SATURATION, %	46.4	46.4	46.4
	VOID RATIO	0.439	0.439	0.439
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	7.7	7.7	7.7
	DRY DENSITY, pcf	114.9	114.9	114.9
	SATURATION, %	46.4	46.4	46.4
	VOID RATIO	0.439	0.439	0.439
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		410	540	642
RESIDUAL SHEAR, psf		252	365	383
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA

SAMPLE TYPE: ALTERNATE SELECT
DESCRIPTION: S-59, SELECT FILL

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS: ASTM D-3080

DIRECT SHEAR STRENGTH TESTING
DRY CONDITION,

SPECIFIC GRAVITY ASSUMED

FIG. NO. S-59

CLIENT: TOWN OF HUNTINGTON

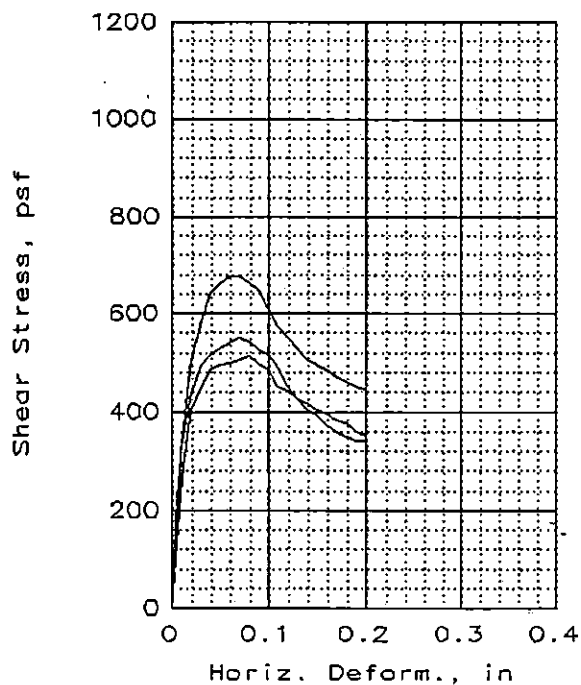
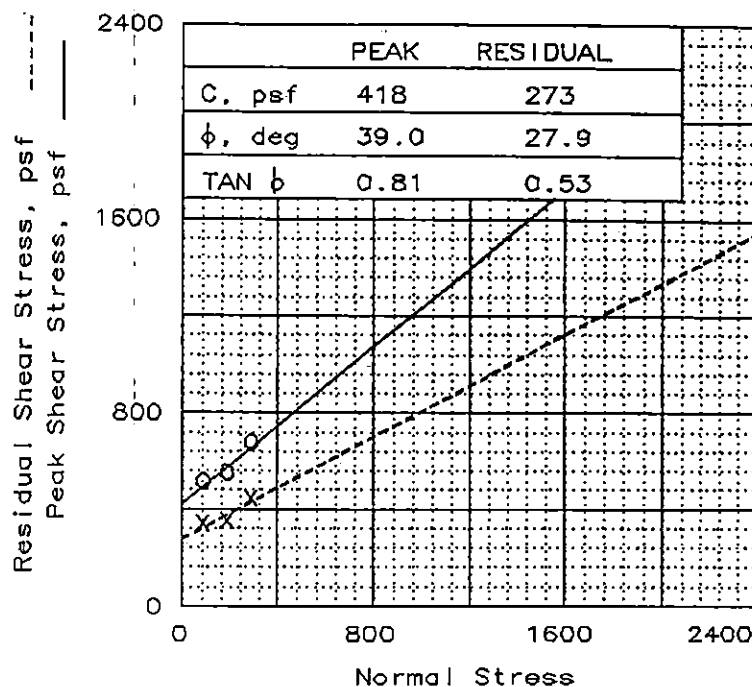
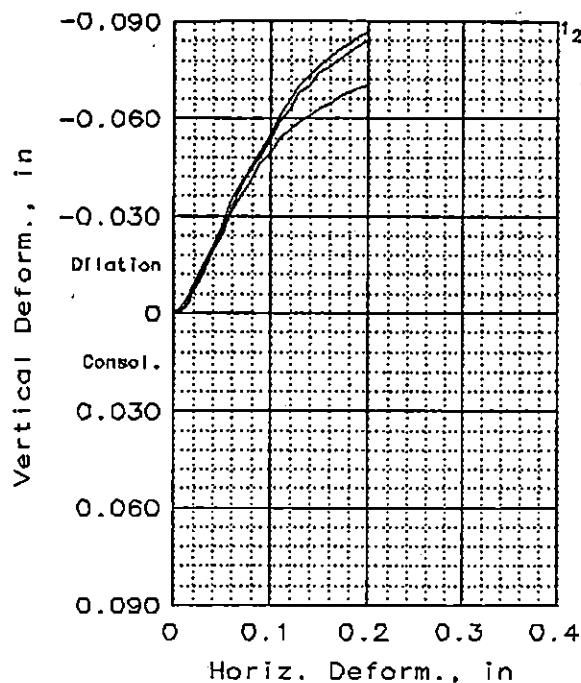
PROJECT: EAST NORTHPORT LANDFILL

SAMPLE LOCATION: S-59

PROJ. NO.: 94S1749-01 DATE: 07-21-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	8.0	8.0	8.0
	DRY DENSITY, pcf	116.1	116.1	116.1
	SATURATION, %	49.9	49.9	49.9
	VOID RATIO	0.425	0.425	0.425
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	8.0	8.0	8.0
	DRY DENSITY, pcf	116.1	116.1	116.1
	SATURATION, %	49.9	49.9	49.9
	VOID RATIO	0.425	0.425	0.425
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		513	551	675
RESIDUAL SHEAR, psf		340	351	446
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA
 SAMPLE TYPE: ALTERNATE SELECT
 DESCRIPTION: 6-60, SELECT FILL
 LL= PL= PI=
 SPECIFIC GRAVITY= 2.65
 REMARKS: ASTM D-3080
 DIRECT SHEAR STRENGTH TESTING
 DRY CONDITION,
 SPECIFIC GRAVITY ASSUMED
 FIG. NO. S-60

CLIENT: TOWN OF HUNTINGTON

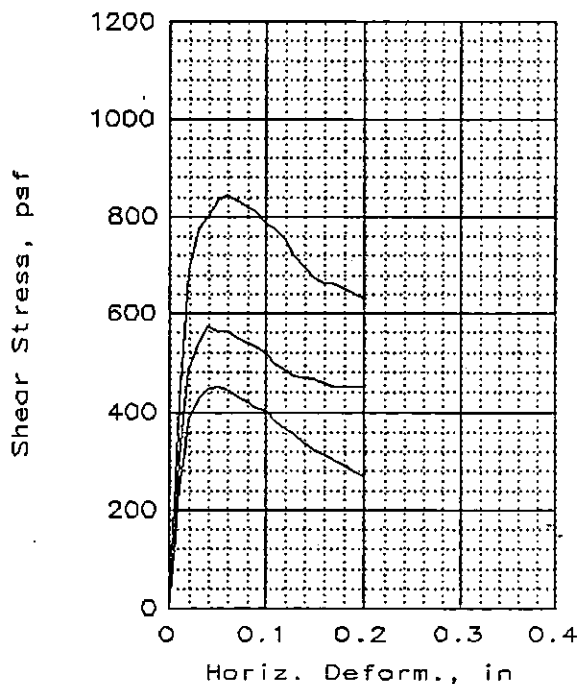
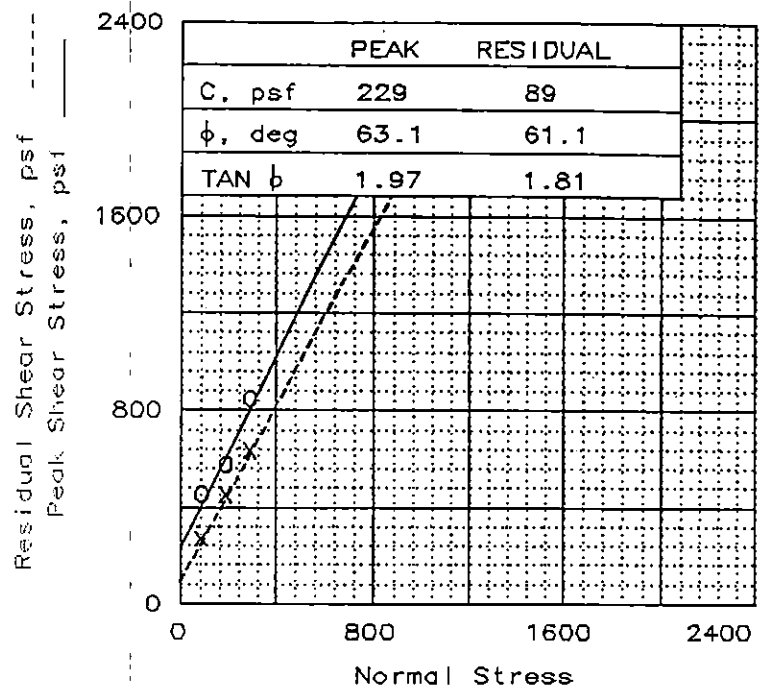
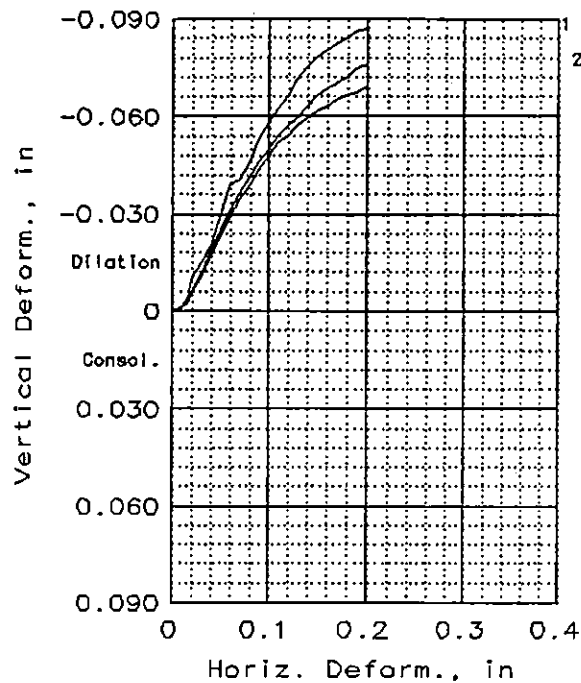
PROJECT: EAST NORTHPORT LANDFILL

SAMPLE LOCATION: S-60

PROJ. NO.: 94S1749-01 DATE: 07-21-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	7.5	7.5	7.5
	DRY DENSITY, pcf	115.7	115.7	115.7
	SATURATION, %	46.2	46.2	46.2
	VOID RATIO	0.430	0.430	0.430
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	7.5	7.5	7.5
	DRY DENSITY, pcf	115.7	115.7	115.7
	SATURATION, %	46.2	46.2	46.2
	VOID RATIO	0.430	0.430	0.430
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		450	574	844
RESIDUAL SHEAR, psf		270	450	633
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA

SAMPLE TYPE: ALTERNATE SELECT
DESCRIPTION: 6-61, SELECT FILL

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS: ASTM D-3080

DIRECT SHEAR STRENGTH TESTING
DRY CONDITION,

SPECIFIC GRAVITY ASSUMED

FIG. NO. S-61

CLIENT: TOWN OF HUNTINGTON

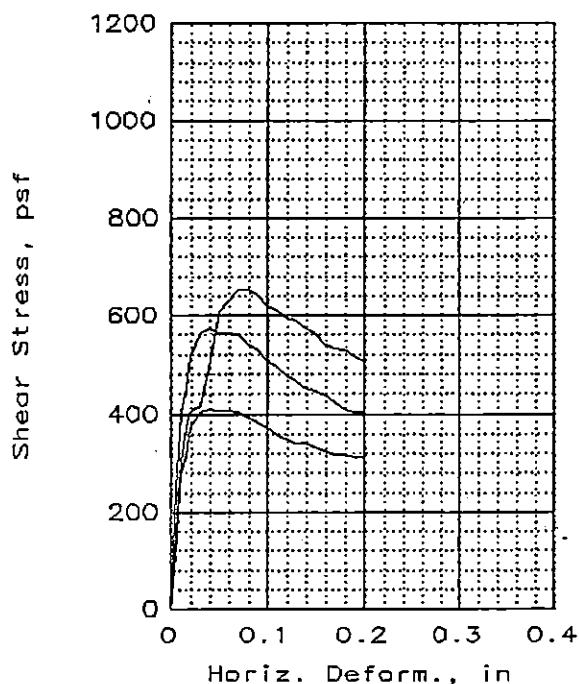
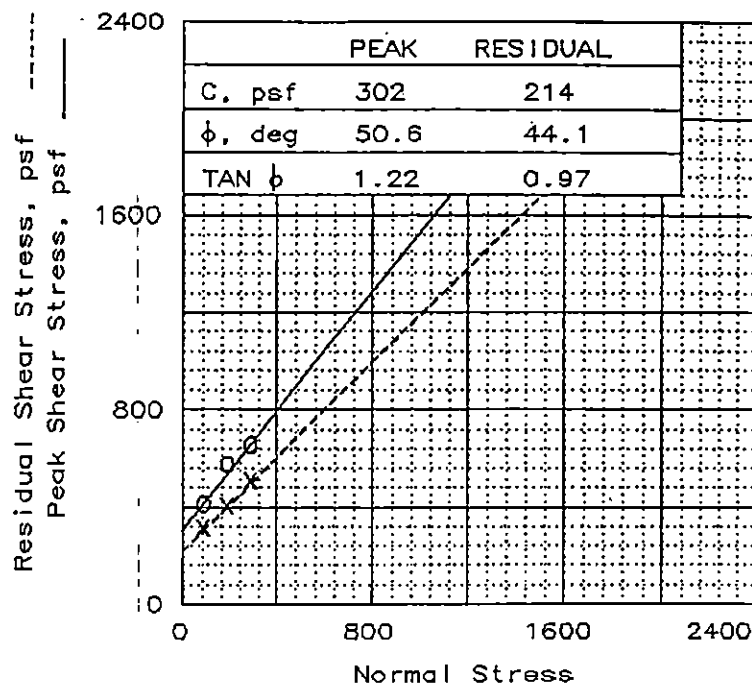
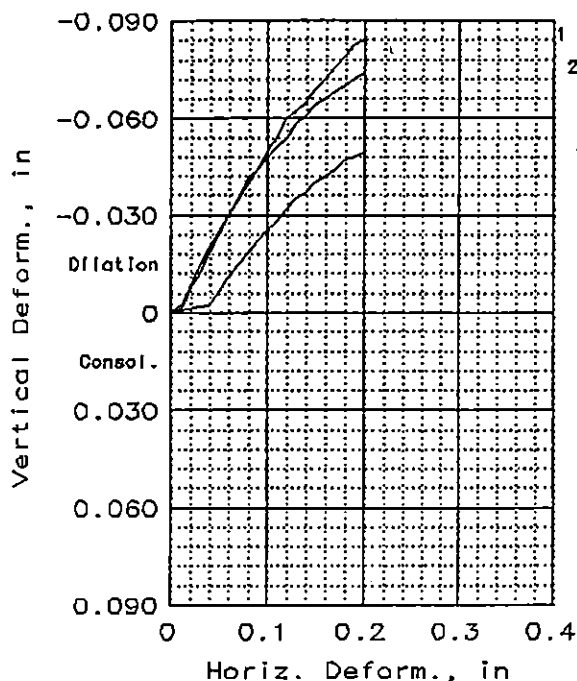
PROJECT: EAST NORTHPORT LANDFILL

SAMPLE LOCATION: S-61

PROJ. NO.: 94S1749-01 DATE: 07-21-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	7.5	7.5	7.5
	DRY DENSITY, pcf	112.0	112.0	112.0
	SATURATION, %	41.5	41.5	41.5
	VOID RATIO	0.478	0.478	0.478
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	7.5	7.5	7.5
	DRY DENSITY, pcf	112.0	112.0	112.0
	SATURATION, %	41.5	41.5	41.5
	VOID RATIO	0.478	0.478	0.478
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		410	574	653
RESIDUAL SHEAR, psf		313	403	506
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA

SAMPLE TYPE: ALTERNATE SELECT
DESCRIPTION: S-62, SELECT FILL

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS: ASTM D-3080

DIRECT SHEAR STRENGTH TESTING
DRY CONDITION,

SPECIFIC GRAVITY ASSUMED

FIG. NO. S-62

CLIENT: TOWN OF HUNTINGTON

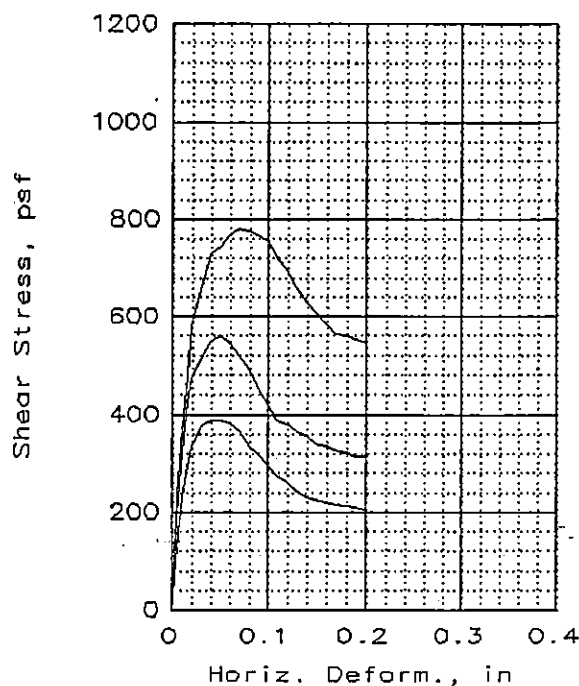
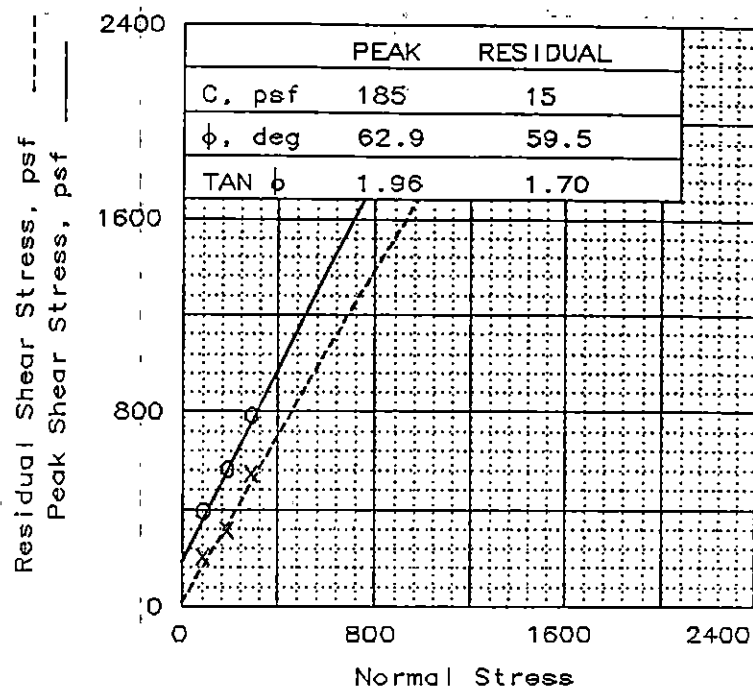
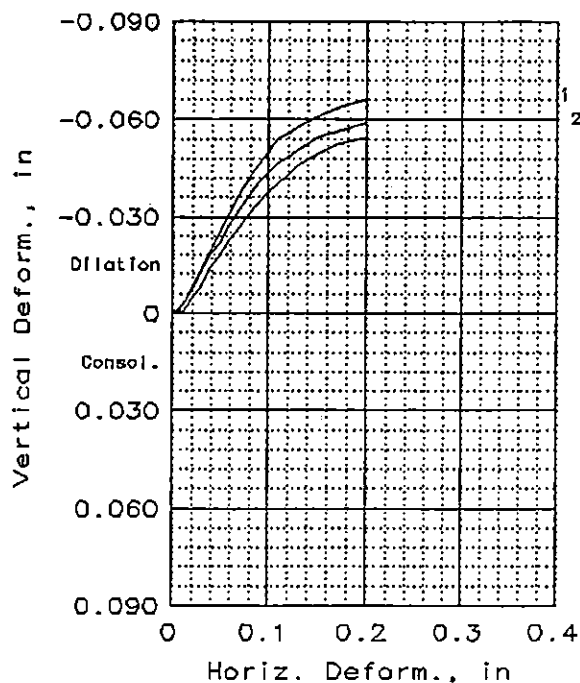
PROJECT: EAST NORTHPORT LANDFILL

SAMPLE LOCATION: S-62

PROJ. NO.: 94S1749-01 DATE: 07-21-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	7.0	7.0	7.0
	DRY DENSITY, pcf	118.9	118.9	118.9
	SATURATION, %	47.5	47.5	47.5
	VOID RATIO	0.391	0.391	0.391
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	7.0	7.0	7.0
	DRY DENSITY, pcf	118.9	118.9	118.9
	SATURATION, %	47.5	47.5	47.5
	VOID RATIO	0.391	0.391	0.391
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		389	561	781
RESIDUAL SHEAR, psf		205	315	545
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA

SAMPLE TYPE: ALTERNATE SELECT
DESCRIPTION: S-63, SELECT FILL

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS: ASTM D-3080

DIRECT SHEAR STRENGTH TESTING
DRY CONDITION,
SPECIFIC GRAVITY ASSUMED

FIG. NO. S-63

CLIENT: TOWN OF HUNTINGTON

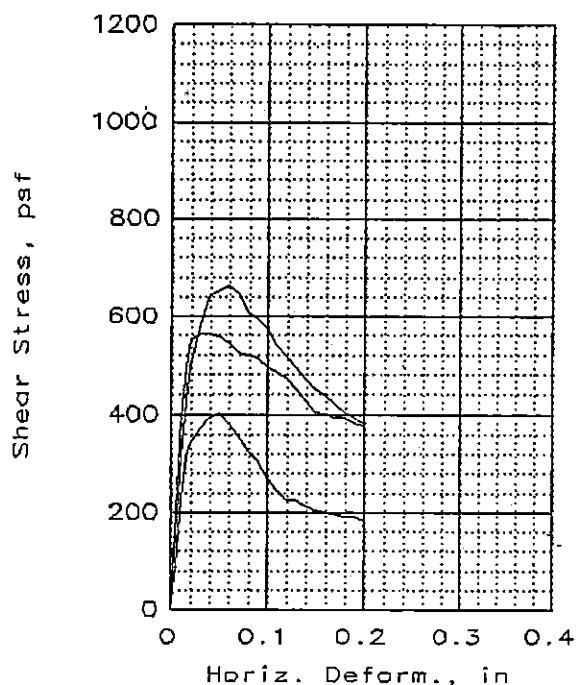
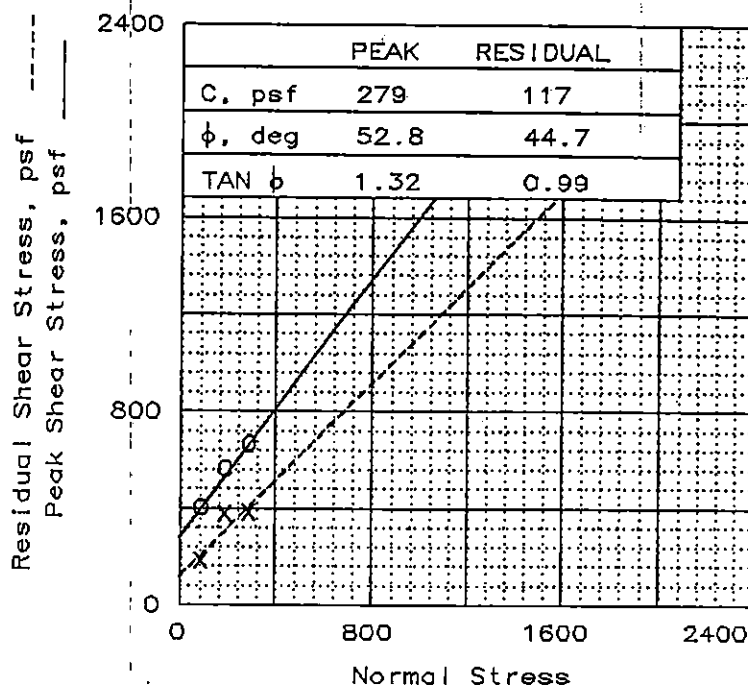
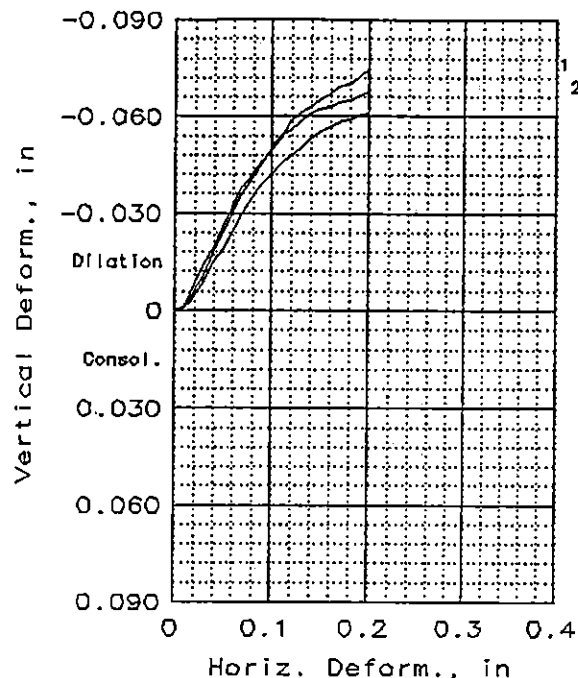
PROJECT: EAST NORTHPORT LANDFILL

SAMPLE LOCATION: S-63

PROJ. NO.: 94S1749-01 DATE: 07-25-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	6.7	6.7	6.7
	DRY DENSITY, pcf	117.4	117.4	117.4
	SATURATION, %	43.3	43.3	43.3
	VOID RATIO	0.409	0.409	0.409
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	6.7	6.7	6.7
	DRY DENSITY, pcf	117.4	117.4	117.4
	SATURATION, %	43.3	43.3	43.3
	VOID RATIO	0.409	0.409	0.409
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		401	563	664
RESIDUAL SHEAR, psf		185	378	383
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA

SAMPLE TYPE: ALTERNATE SELECT
DESCRIPTION: S-64, SELECT FILL

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS: ASTM D-3080

DIRECT SHEAR STRENGTH TESTING
DRY CONDITION,

SPECIFIC GRAVITY ASSUMED

FIG. NO. S-64

CLIENT: TOWN OF HUNTINGTON

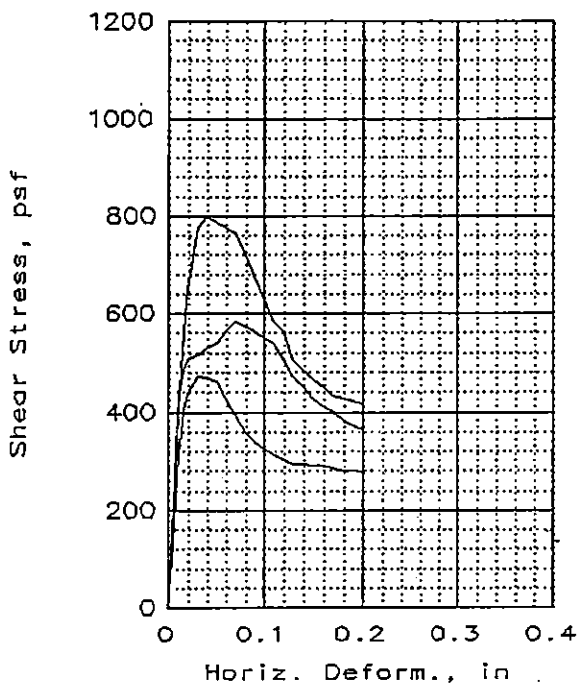
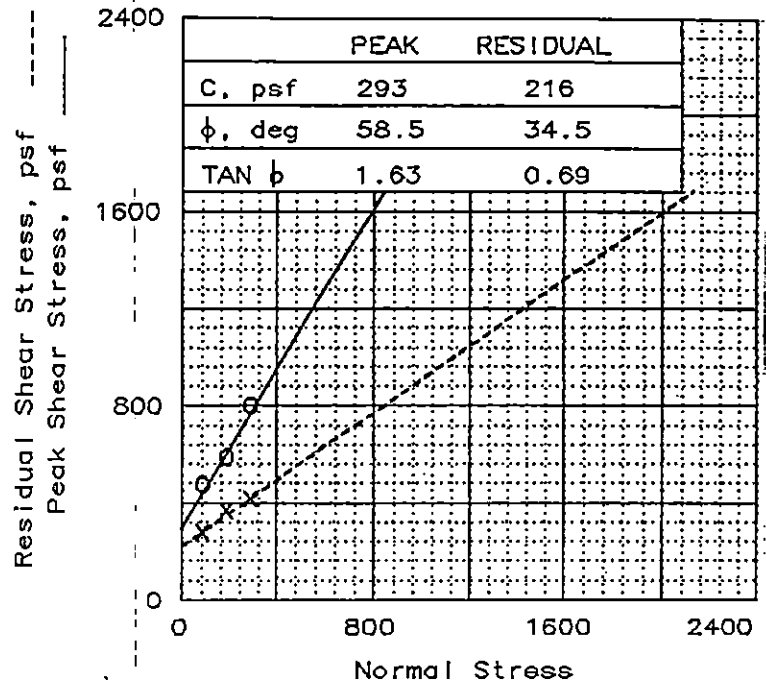
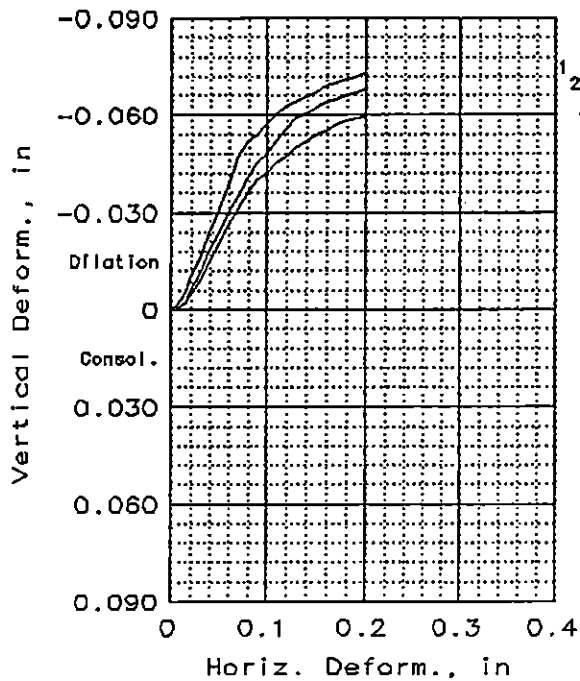
PROJECT: EAST NORTHPORT LANDFILL

SAMPLE LOCATION: S-64

PROJ. NO.: 94S1749-01 DATE: 07-26-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	6.7	6.7	6.7
	DRY DENSITY, pcf	119.4	119.4	119.4
	SATURATION, %	46.0	46.0	46.0
	VOID RATIO	0.386	0.386	0.386
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	6.7	6.7	6.7
	DRY DENSITY, pcf	119.4	119.4	119.4
	SATURATION, %	46.0	46.0	46.0
	VOID RATIO	0.386	0.386	0.386
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		473	585	799
RESIDUAL SHEAR, psf		279	365	416
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA

SAMPLE TYPE: ALTERNATE SELECT
DESCRIPTION: S-65, SELECT FILL

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS: ASTM D-3080

DIRECT SHEAR STRENGTH TESTING
DRY CONDITION,

SPECIFIC GRAVITY ASSUMED

FIG. NO. S-65

CLIENT: TOWN OF HUNTINGTON

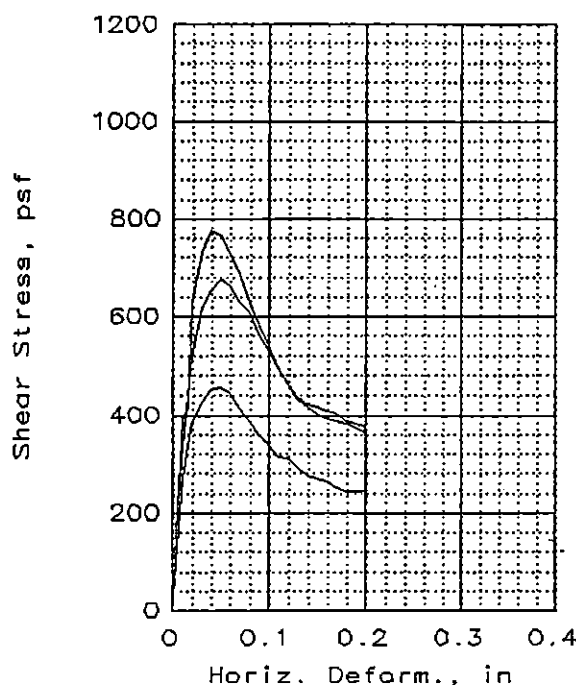
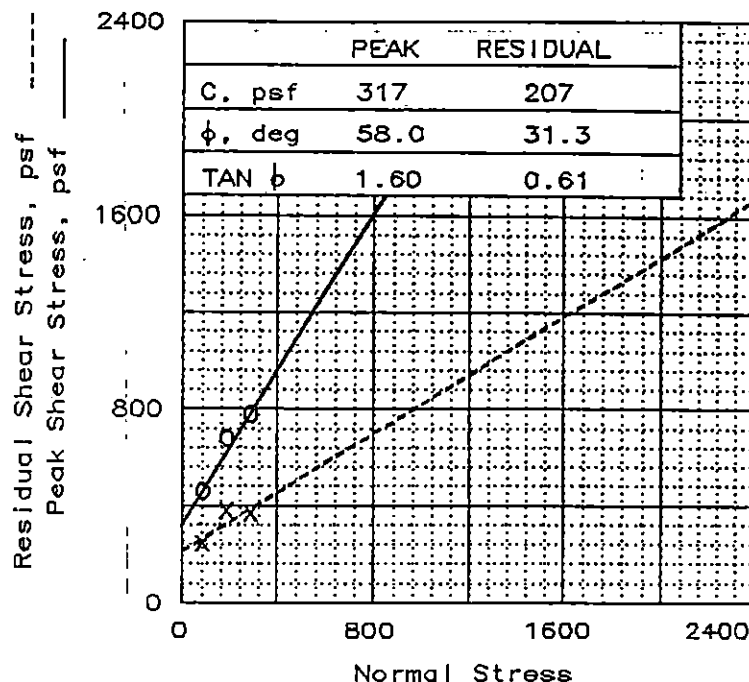
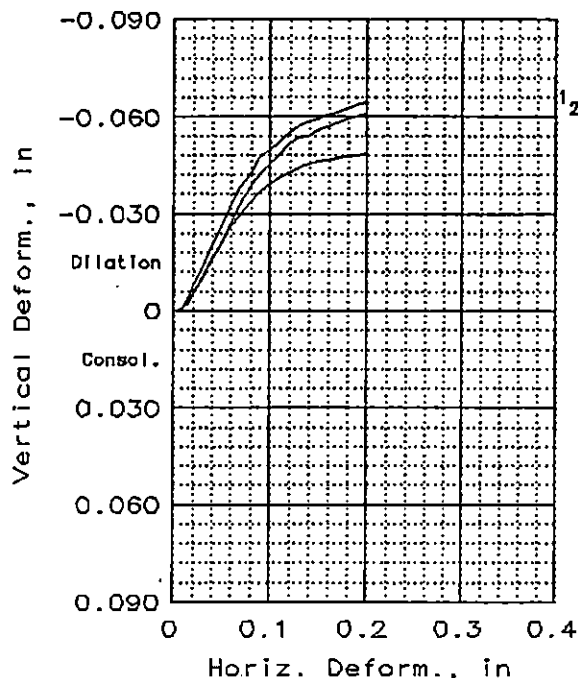
PROJECT: EAST NORTHPORT LANDFILL

SAMPLE LOCATION: S-65

PROJ. NO.: 94S1749-01 DATE: 07-26-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	7.5	7.5	7.5
	DRY DENSITY, pcf	116.7	116.7	116.7
	SATURATION, %	47.6	47.6	47.6
	VOID RATIO	0.418	0.418	0.418
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	7.5	7.5	7.5
	DRY DENSITY, pcf	116.7	116.7	116.7
	SATURATION, %	47.6	47.6	47.6
	VOID RATIO	0.418	0.418	0.418
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		457	675	777
RESIDUAL SHEAR, psf		243	378	365
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA

SAMPLE TYPE: ALTERNATE SELECT
DESCRIPTION: S-66, SELECT FILL

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS: ASTM D-3080

DIRECT SHEAR STRENGTH TESTING
DRY CONDITION.

SPECIFIC GRAVITY ASSUMED

FIG. NO. S-66

CLIENT: TOWN OF HUNTINGTON

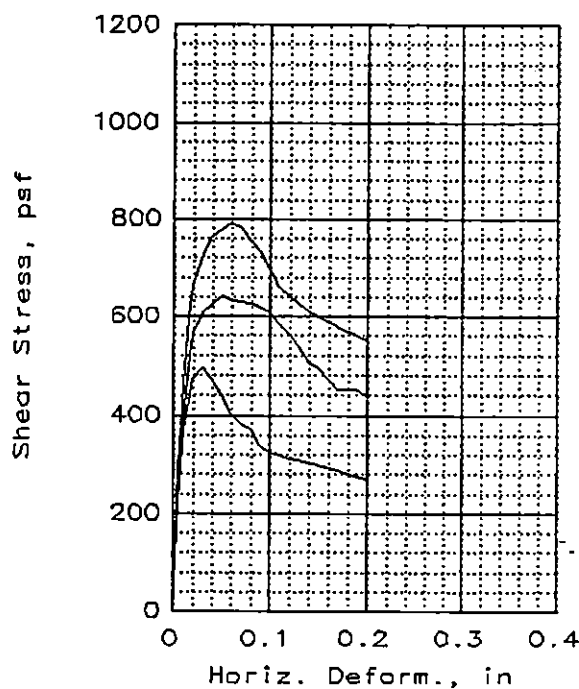
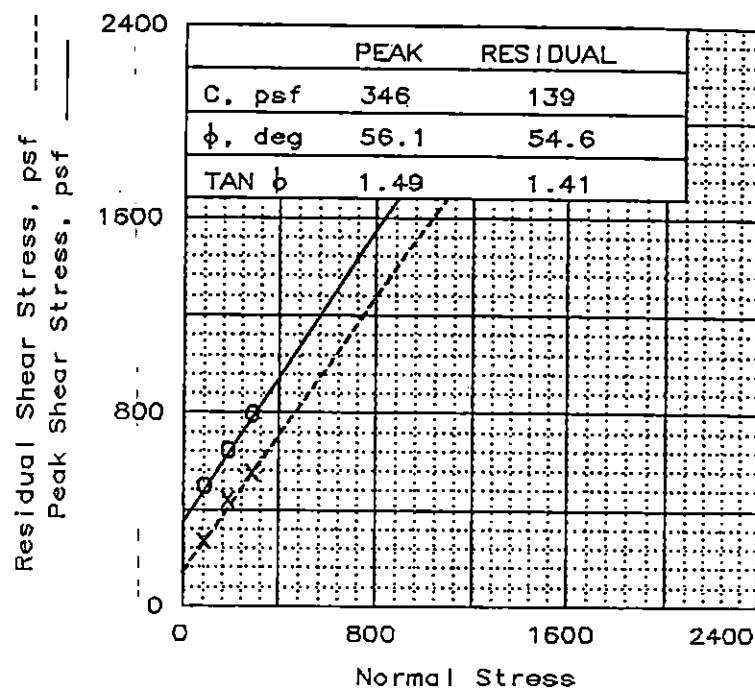
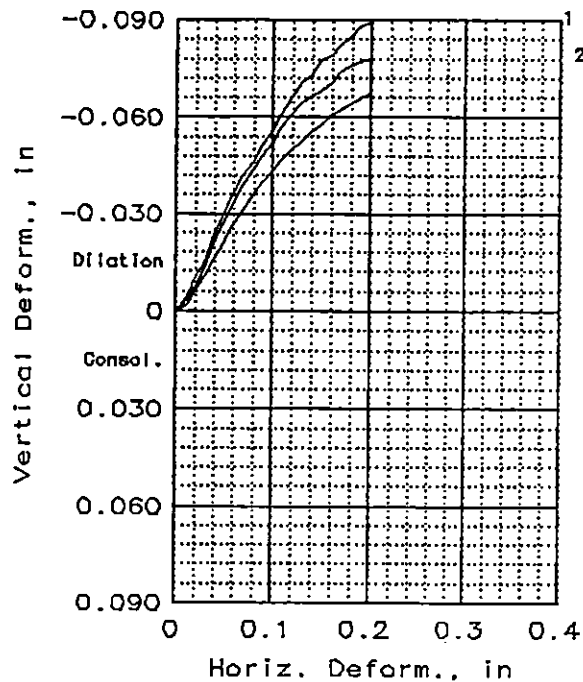
PROJECT: EAST NORTHPORT LANDFILL

SAMPLE LOCATION: S-66

PROJ. NO.: 94S1749-01 DATE: 07-26-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	7.5	7.5	7.5
	DRY DENSITY, pcf	116.8	116.8	116.8
	SATURATION, %	47.7	47.7	47.7
	VOID RATIO	0.417	0.417	0.417
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	7.5	7.5	7.5
	DRY DENSITY, pcf	116.8	116.8	116.8
	SATURATION, %	47.7	47.7	47.7
	VOID RATIO	0.417	0.417	0.417
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		495	642	792
RESIDUAL SHEAR, psf		270	439	551
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA

SAMPLE TYPE: ALT. SELECT FILL
DESCRIPTION: S-67, SELECT FILL

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS: ASTM D-3080

DIRECT SHEAR STRENGTH TEST
DRY CONDITION

SPECIFIC GRAVITY ASSUMED

FIG. NO. 6-67

CLIENT: TOWN OF HUNTINGTON

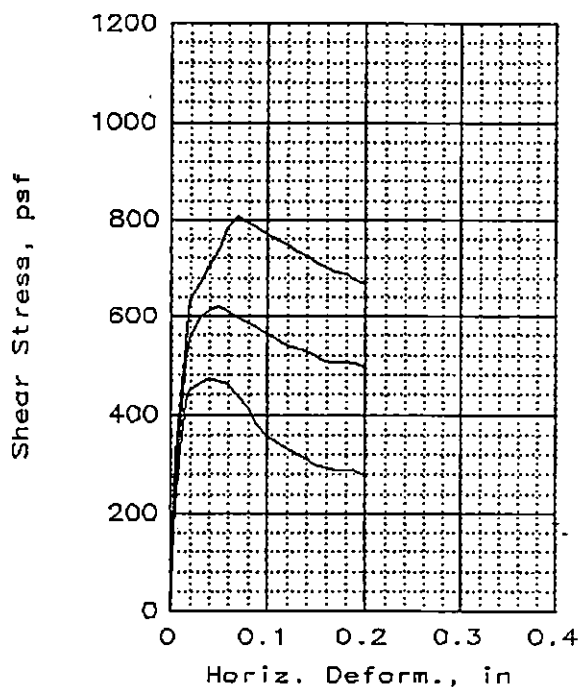
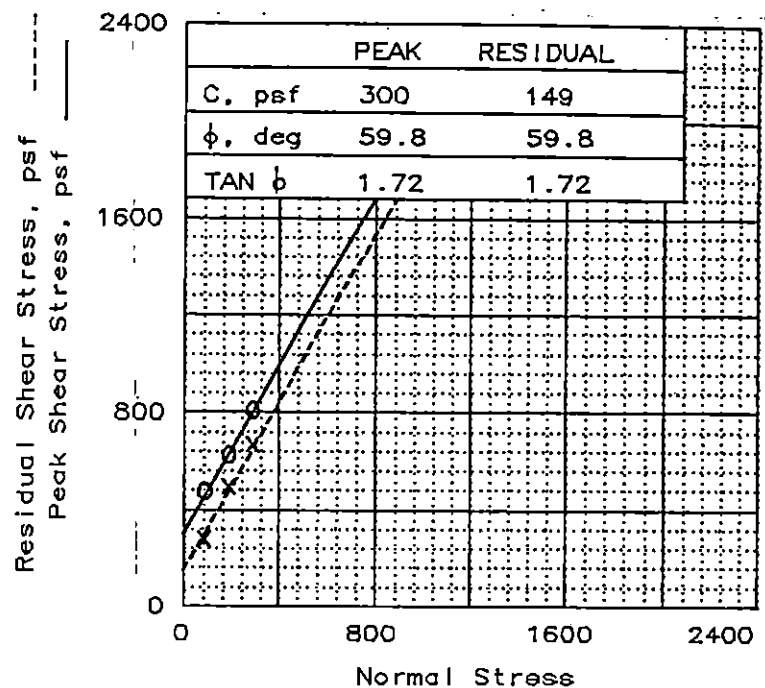
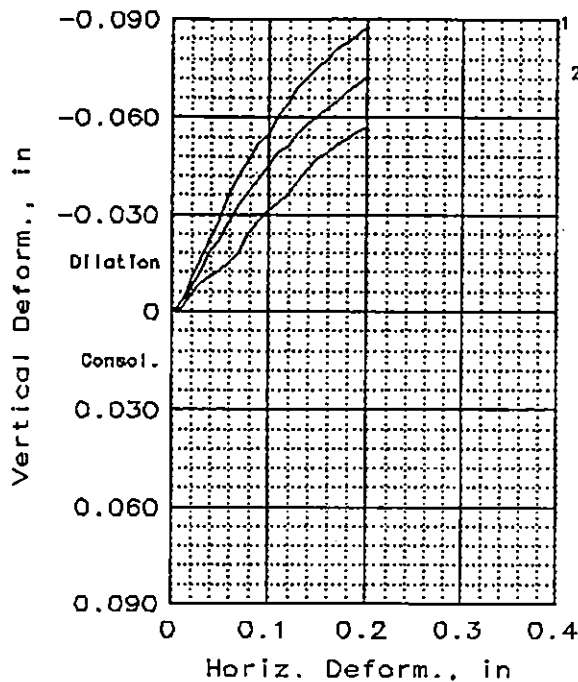
PROJECT: EAST NORTHPORT LANDFILL

SAMPLE LOCATION: S-67

PROJ. NO.: 94S1749-01 DATE: 08-08-95

DIRECT SHEAR TEST REPORT.

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	7.8	7.8	7.8
	DRY DENSITY, pcf	109.5	109.5	109.5
	SATURATION, %	40.5	40.5	40.5
	VOID RATIO	0.511	0.511	0.511
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	7.8	7.8	7.8
	DRY DENSITY, pcf	109.5	109.5	109.5
	SATURATION, %	40.5	40.5	40.5
	VOID RATIO	0.511	0.511	0.511
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		472	622	806
RESIDUAL SHEAR, psf		279	495	668
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA
 SAMPLE TYPE: 85% MOD. PROCTOR
 DESCRIPTION: S-67, SELECT FILL

LL= PL= PI=
 SPECIFIC GRAVITY= 2.65
 REMARKS: ASTM D-3080 DIRECT
 SHEAR STRENGTH TEST
 DRY CONDITION SPECIFIC
 GRAVITY ASSUMED

FIG. NO. S-67A

CLIENT: TOWN OF HUNTINGTON

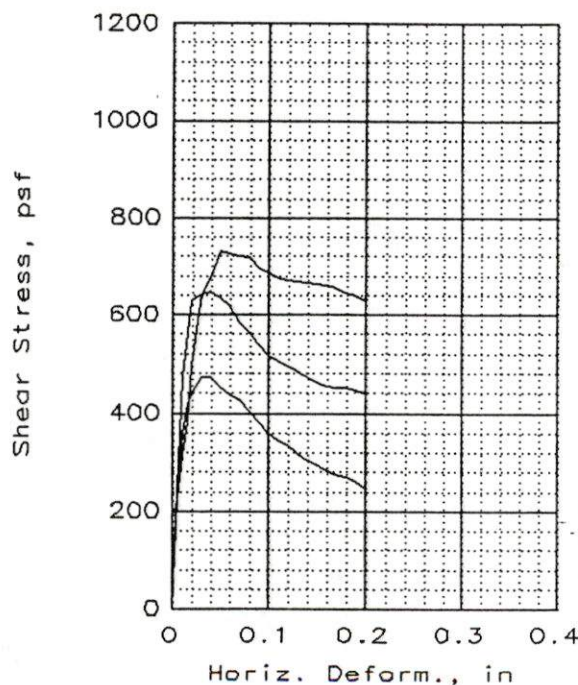
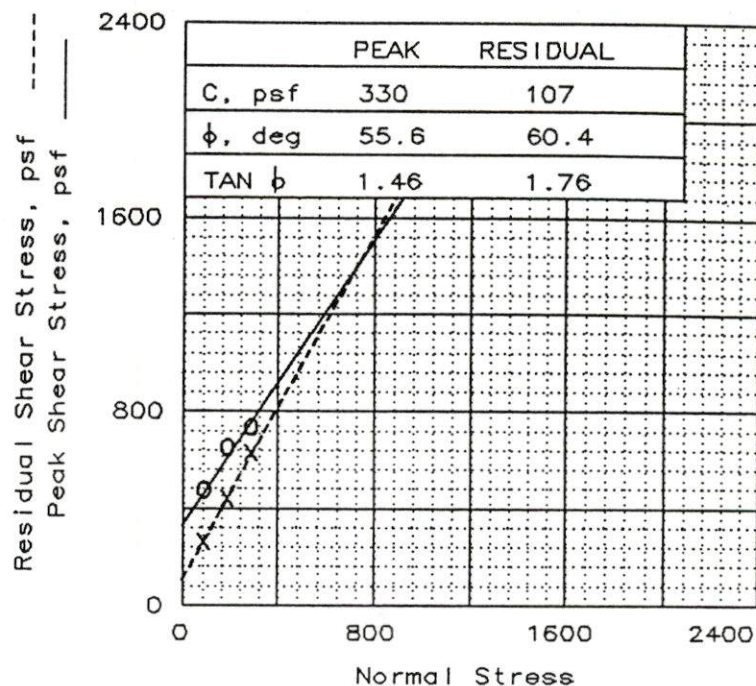
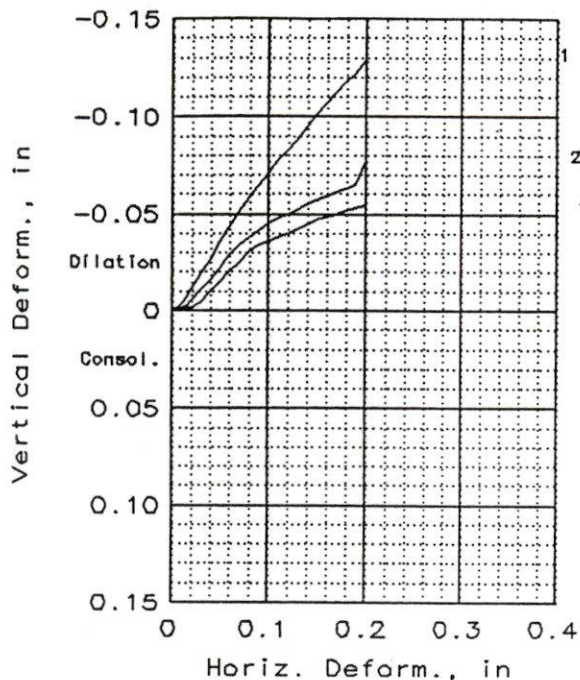
PROJECT: EAST NORTHPORT LANDFILL

SAMPLE LOCATION: S-67A

PROJ. NO.: 94S1749-01 DATE: 08-23-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	8.0	8.0	8.0
	DRY DENSITY, pcf	116.3	116.3	116.3
	SATURATION, %	50.2	50.2	50.2
	VOID RATIO	0.422	0.422	0.422
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	8.0	8.0	8.0
	DRY DENSITY, pcf	116.3	116.3	116.3
	SATURATION, %	50.2	50.2	50.2
	VOID RATIO	0.422	0.422	0.422
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		473	648	732
RESIDUAL SHEAR, psf		263	441	630
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA

SAMPLE TYPE: ALT. SELECT FILL
DESCRIPTION: S-68, SELECT FILL

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS: ASTM D-3080

DIRECT SHEAR STRENGTH TEST
DRY CONDITION

SPECIFIC GRAVITY ASSUMED

FIG. NO. S-68

CLIENT: TOWN OF HUNTINGTON

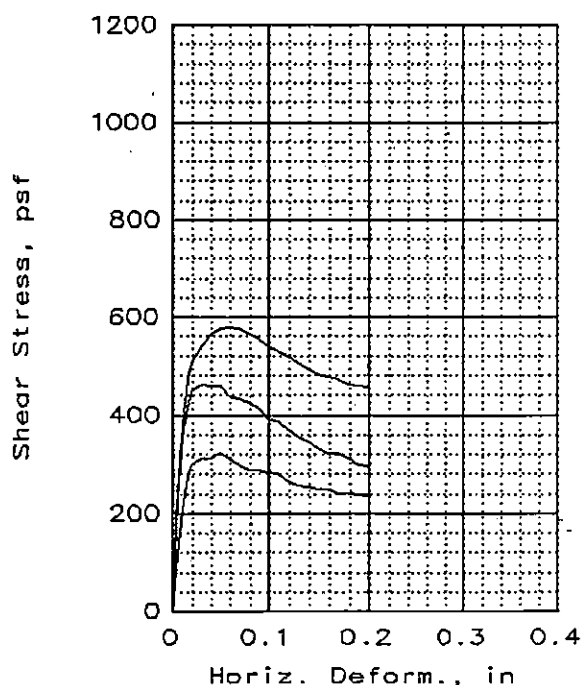
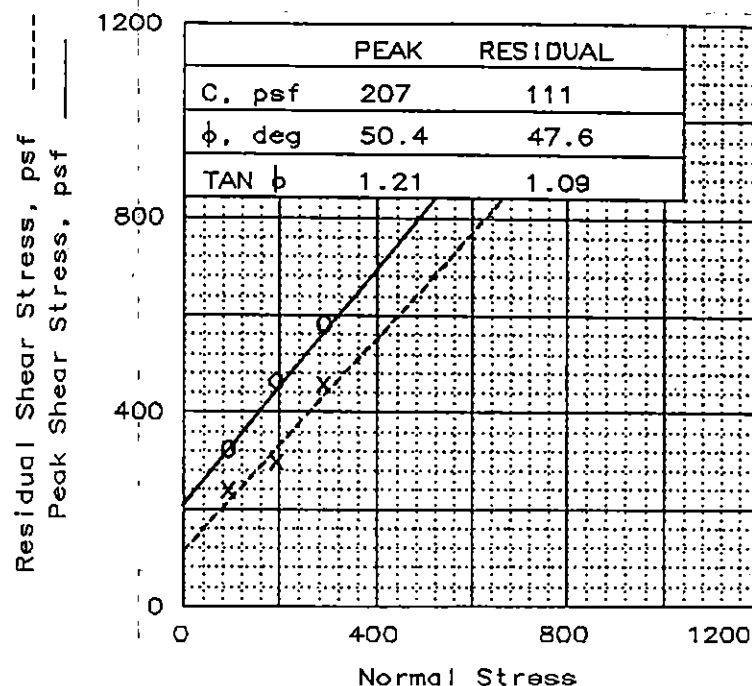
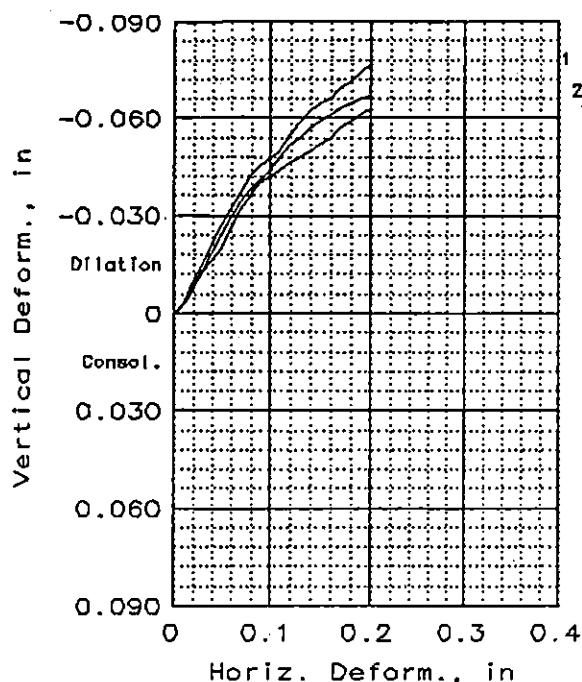
PROJECT: EAST NORTHPORT LANDFILL

SAMPLE LOCATION: S-68

PROJ. NO.: 94S1749-01 DATE: 08-07-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	7.8	7.8	15.0
	DRY DENSITY, pcf	109.1	109.1	102.2
	SATURATION, %	40.0	40.0	64.4
	VOID RATIO	0.517	0.517	0.618
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	7.8	7.8	7.8
	DRY DENSITY, pcf	109.1	109.1	102.2
	SATURATION, %	40.0	40.0	33.4
	VOID RATIO	0.517	0.517	0.618
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		323	461	581
RESIDUAL SHEAR, psf		237	297	456
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA
 SAMPLE TYPE: 85% MOD. PROCTOR
 DESCRIPTION: S-68, SELECT FILL
 LL= PL= PI=
 SPECIFIC GRAVITY= 2.65
 REMARKS: ASTM D-3080 DIRECT
 SHEAR STRENGTH TEST
 DRY CONDITION SPECIFIC
 GRAVITY ASSUMED
 FIG. NO. S-68A

CLIENT: TOWN OF HUNTINGTON

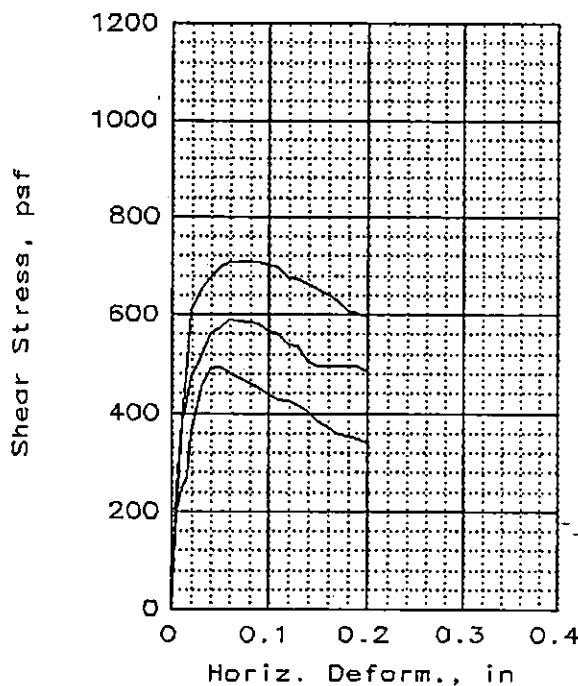
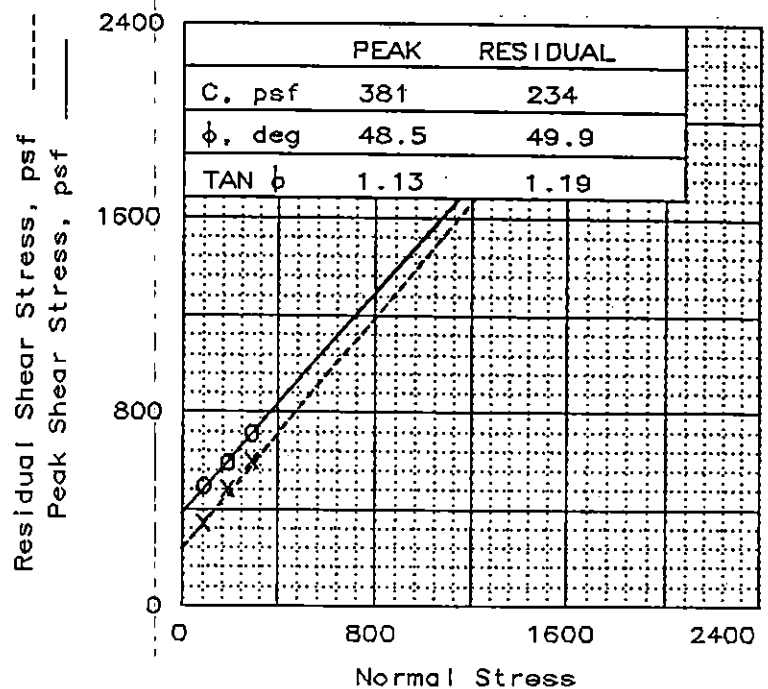
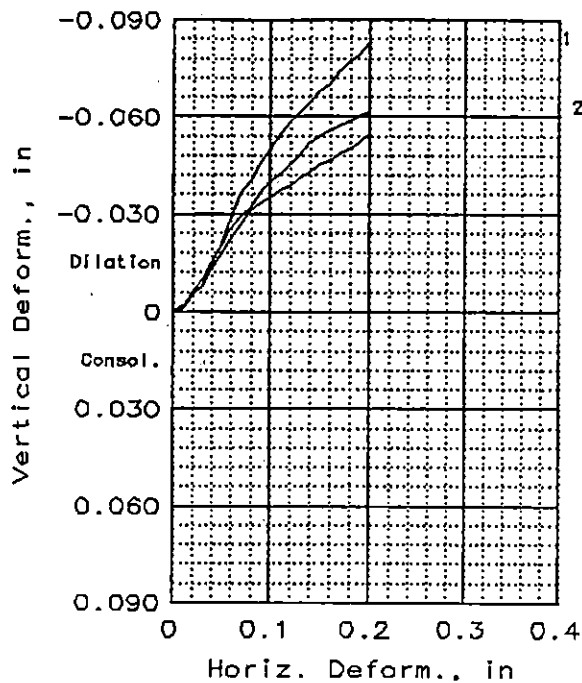
PROJECT: EAST NORTHPORT LANDFILL

SAMPLE LOCATION: S-68A

PROJ. NO.: 94S1749-01 DATE: 08-23-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	8.0	8.0	8.0
	DRY DENSITY, pcf	116.7	116.7	116.7
	SATURATION, %	50.7	50.7	50.7
	VOID RATIO	0.418	0.418	0.418
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	8.0	8.0	8.0
	DRY DENSITY, pcf	116.7	116.7	116.7
	SATURATION, %	50.7	50.7	50.7
	VOID RATIO	0.418	0.418	0.418
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		493	590	709
RESIDUAL SHEAR, psf		342	484	597
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA

SAMPLE TYPE: ALT. SELECT FILL
DESCRIPTION: S-69, SELECT FILL

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS: ASTM D-3080

DIRECT SHEAR STRENGTH TEST
DRY CONDITION

SPECIFIC GRAVITY ASSUMED

FIG. NO. S-69

CLIENT: TOWN OF HUNTINGTON

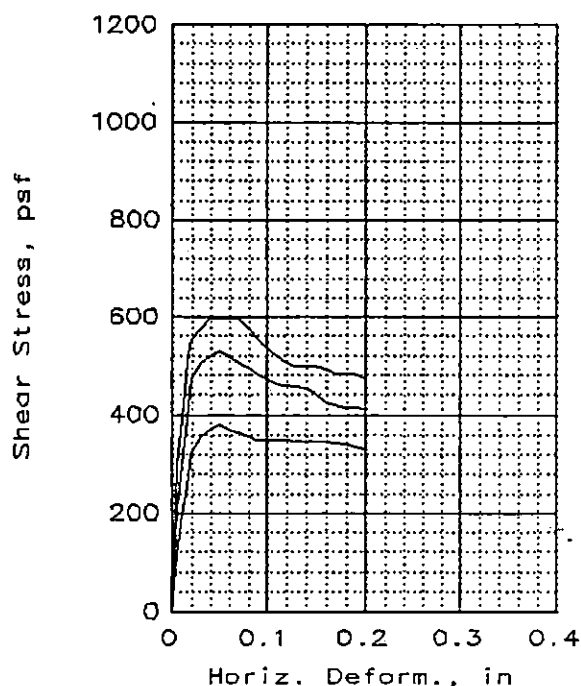
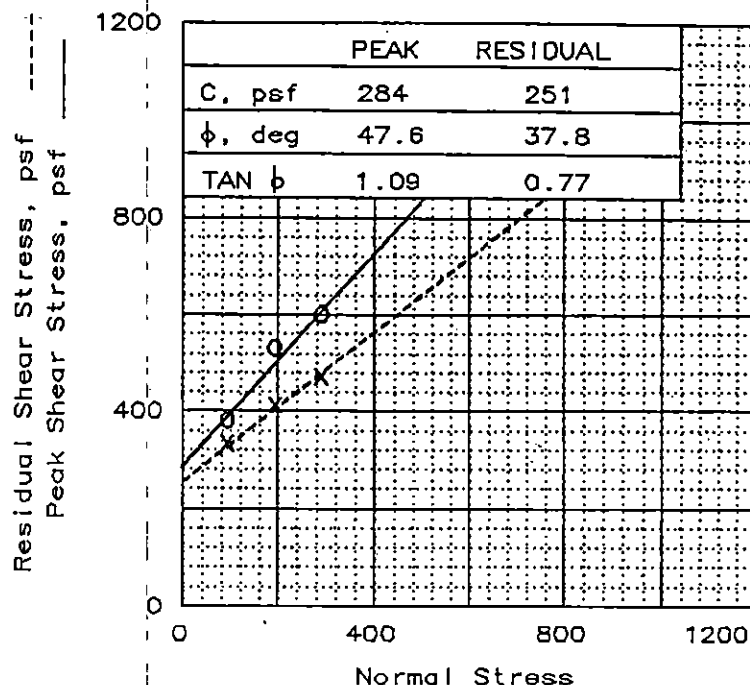
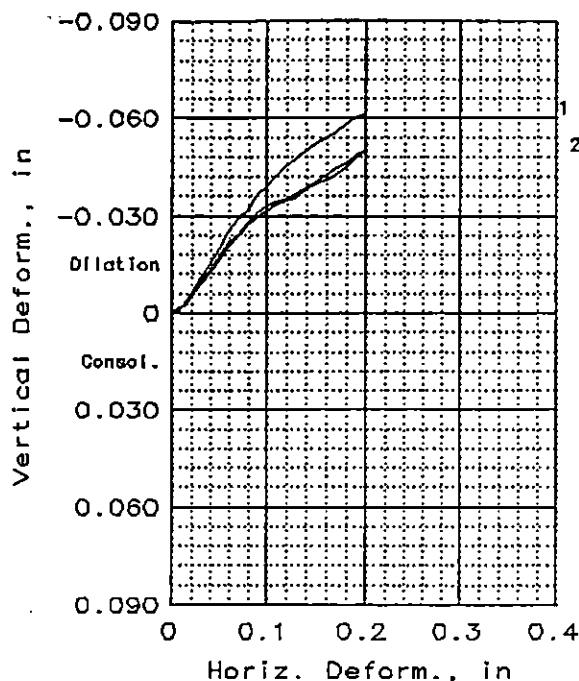
PROJECT: EAST NORTHPORT LANDFILL

SAMPLE LOCATION: S-69

PROJ. NO.: 94S1749-01 DATE: 08-07-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	8.0	8.0	8.0
	DRY DENSITY, pcf	109.4	109.4	109.4
	SATURATION, %	41.4	41.4	41.4
	VOID RATIO	0.512	0.512	0.512
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	8.0	8.0	8.0
	DRY DENSITY, pcf	109.4	109.4	109.4
	SATURATION, %	41.4	41.4	41.4
	VOID RATIO	0.512	0.512	0.512
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		380	530	599
RESIDUAL SHEAR, psf		332	412	472
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA
 SAMPLE TYPE: 85% MOD. PROCTOR
 DESCRIPTION: S-69, SELECT FILL

LL= PL= PI=
 SPECIFIC GRAVITY= 2.65
 REMARKS: ASTM D-3080 DIRECT
 SHEAR STRENGTH TEST
 DRY CONDITION SPECIFIC
 GRAVITY ASSUMED
 FIG. NO. S-69A

CLIENT: TOWN OF HUNTINGTON

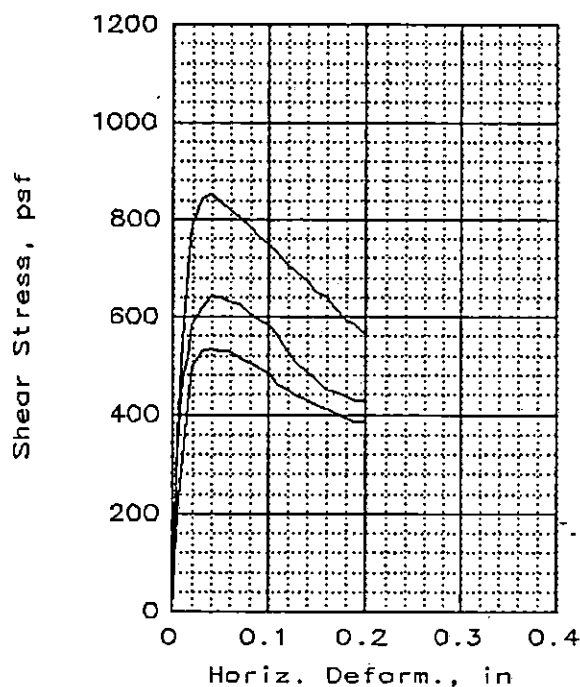
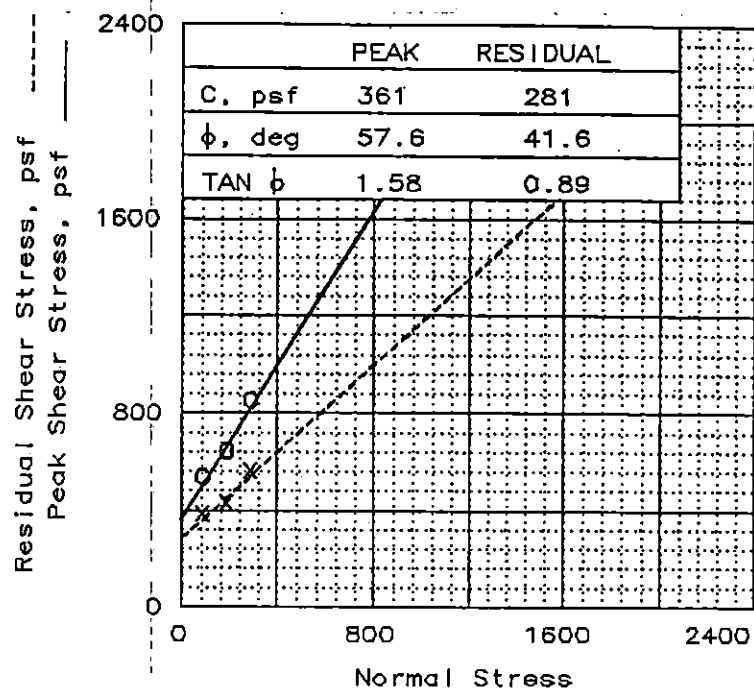
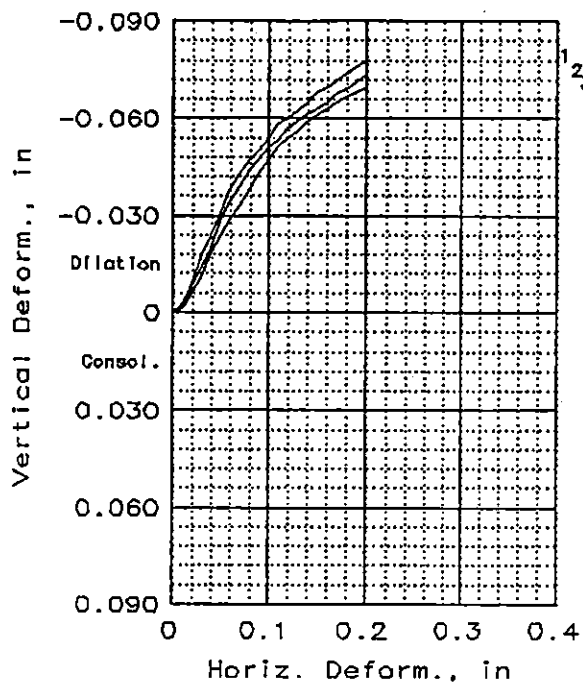
PROJECT: EAST NORTHPORT LANDFILL

SAMPLE LOCATION: S-69A

PROJ. NO.: 94S1749-01 DATE: 08-23-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	6.7	6.7	6.7
	DRY DENSITY, pcf	116.6	116.6	116.6
	SATURATION, %	42.4	42.4	42.4
	VOID RATIO	0.419	0.419	0.419
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	6.7	6.7	6.7
	DRY DENSITY, pcf	116.6	116.6	116.6
	SATURATION, %	42.4	42.4	42.4
	VOID RATIO	0.419	0.419	0.419
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		536	642	851
RESIDUAL SHEAR, psf		385	428	563
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA

SAMPLE TYPE: ALT. SELECT FILL
DESCRIPTION: S-70, SELECT FILL

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS: ASTM D-3080

DIRECT SHEAR STRENGTH TEST

DRY CONDITION

SPECIFIC GRAVITY ASSUMED

FIG. NO. S-70

CLIENT: TOWN OF HUNTINGTON

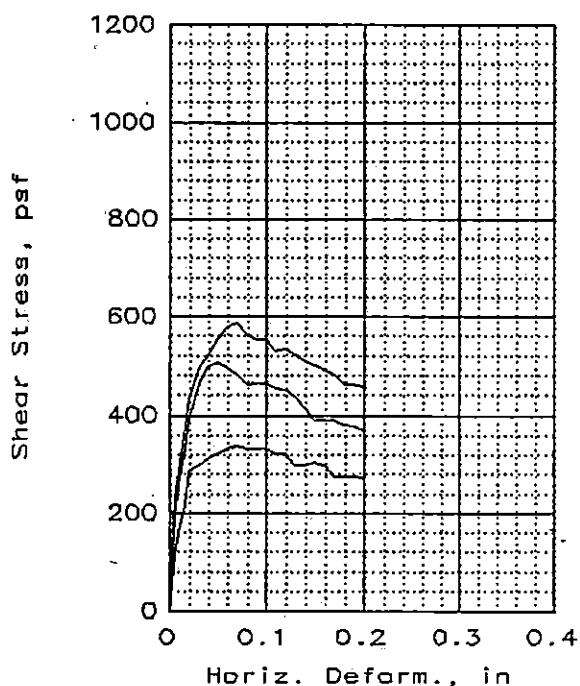
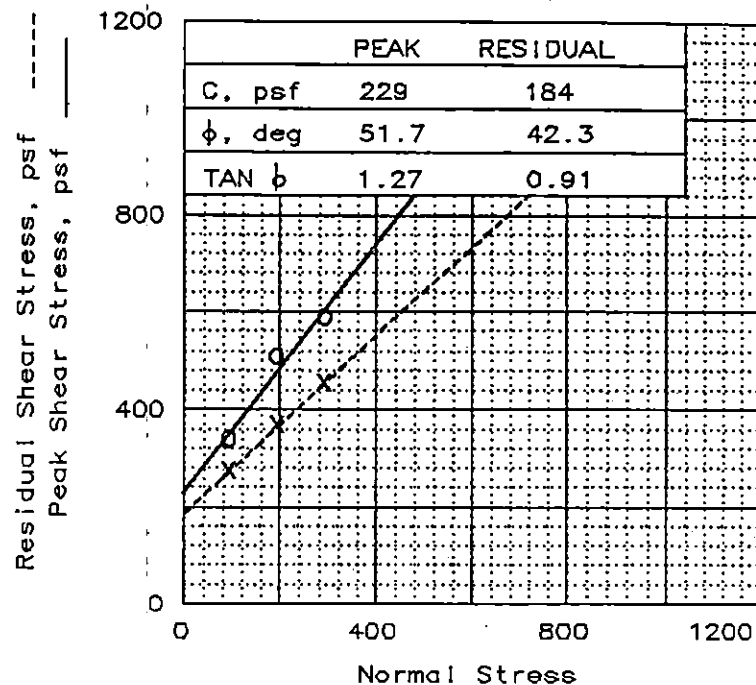
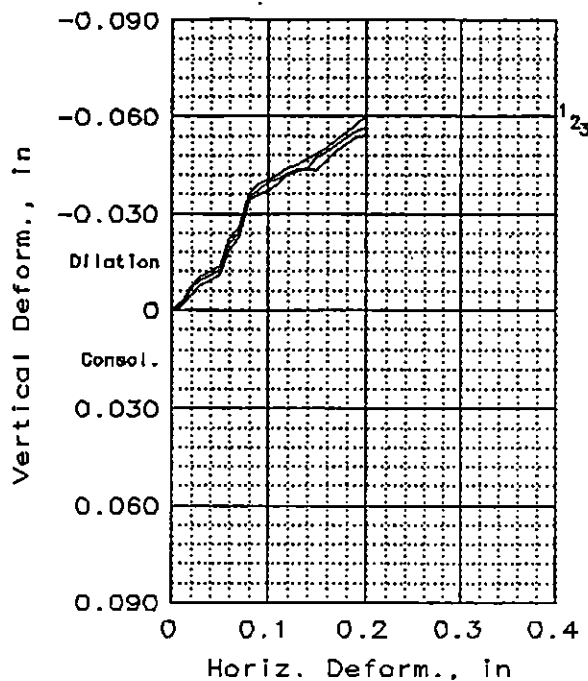
PROJECT: EAST NORTHPORT LANDFILL

SAMPLE LOCATION: S-70

PROJ. NO.: 94S1749-01 DATE: 08-10-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	6.7	6.7	6.7
	DRY DENSITY, pcf	109.3	109.3	109.3
	SATURATION, %	34.6	34.6	34.6
	VOID RATIO	0.513	0.513	0.513
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	6.7	6.7	6.7
	DRY DENSITY, pcf	109.3	109.3	109.3
	SATURATION, %	34.6	34.6	34.6
	VOID RATIO	0.513	0.513	0.513
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		339	507	588
RESIDUAL SHEAR, psf		274	369	456
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA
 SAMPLE TYPE: 85% MOD. PROCTOR
 DESCRIPTION: S-70, SELECT FILL

LL= PL= PI=
 SPECIFIC GRAVITY= 2.65
 REMARKS: ASTM D-3080 DIRECT
 SHEAR STRENGTH TEST
 DRY CONDITION ASSUMED
 SPECIFIC GRAVITY ASSUMED
 FIG. NO. S-70A

CLIENT: TOWN OF HUNTINGTON

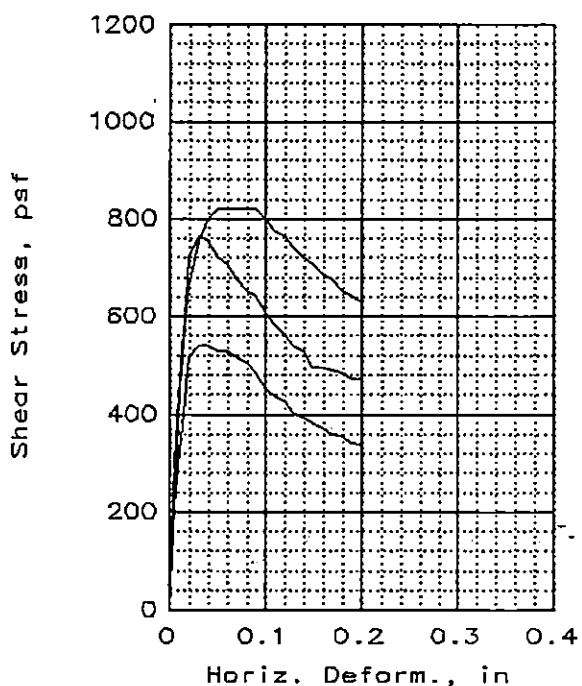
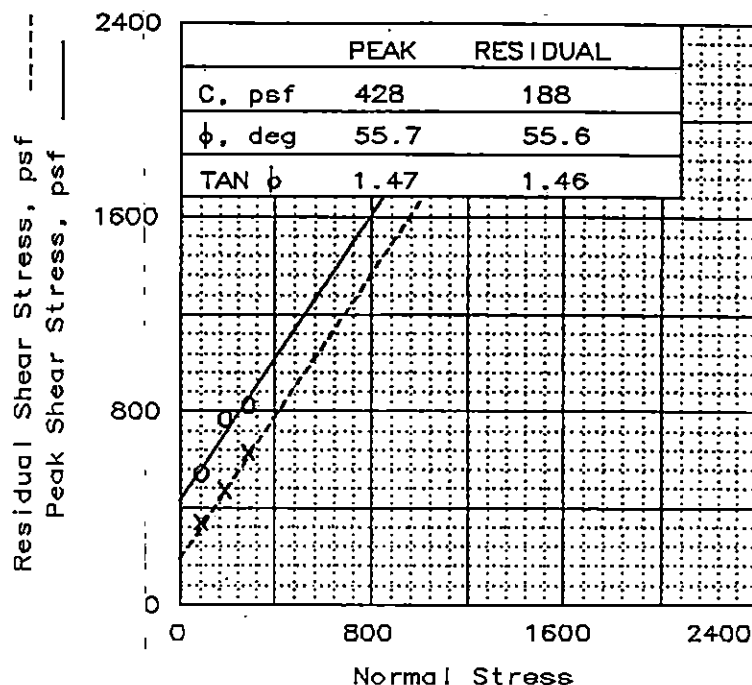
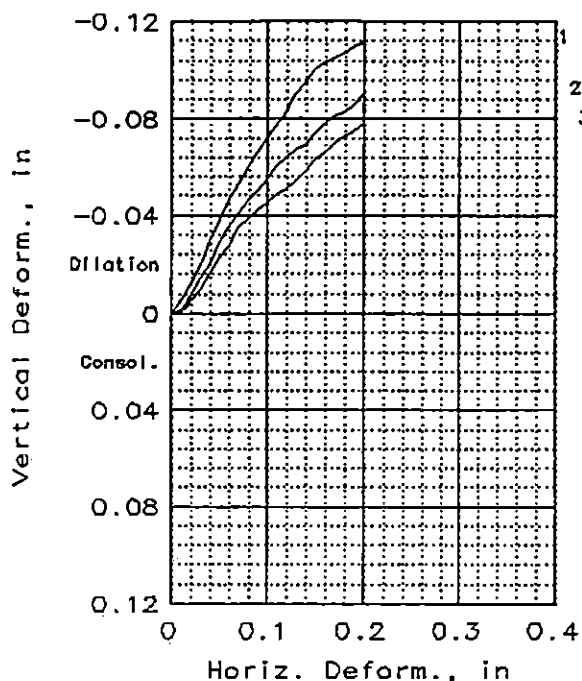
PROJECT: EAST NORTPORT LANDFILL

SAMPLE LOCATION: S-70A

PROJ. NO.: 94S1749-01 DATE: 08-23-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	6.8	6.8	6.8
	DRY DENSITY, pcf	117.5	117.5	117.5
	SATURATION, %	44.2	44.2	44.2
	VOID RATIO	0.408	0.408	0.408
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	6.8	6.8	6.8
	DRY DENSITY, pcf	117.5	117.5	117.5
	SATURATION, %	44.2	44.2	44.2
	VOID RATIO	0.408	0.408	0.408
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		540	765	822
RESIDUAL SHEAR, psf		338	473	630
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA
SAMPLE TYPE: ALT. SELECT FILL
DESCRIPTION: S-71, SELECT FILL

LL= PL= PI=
SPECIFIC GRAVITY= 2.65
REMARKS: ASTM D-3080

DIRECT SHEAR STRENGTH TEST
DRY CONDITION
SPECIFIC GRAVITY ASSUMED
FIG. NO. S-71

CLIENT: TOWN OF HUNTINGTON

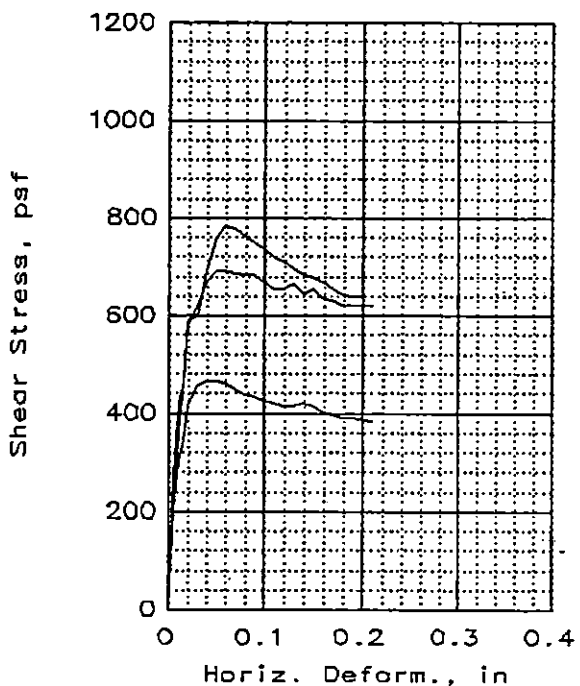
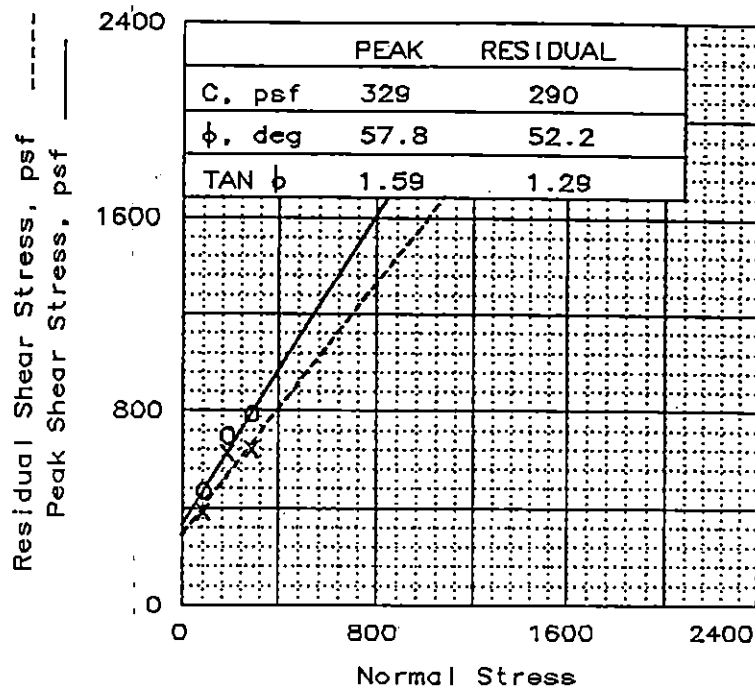
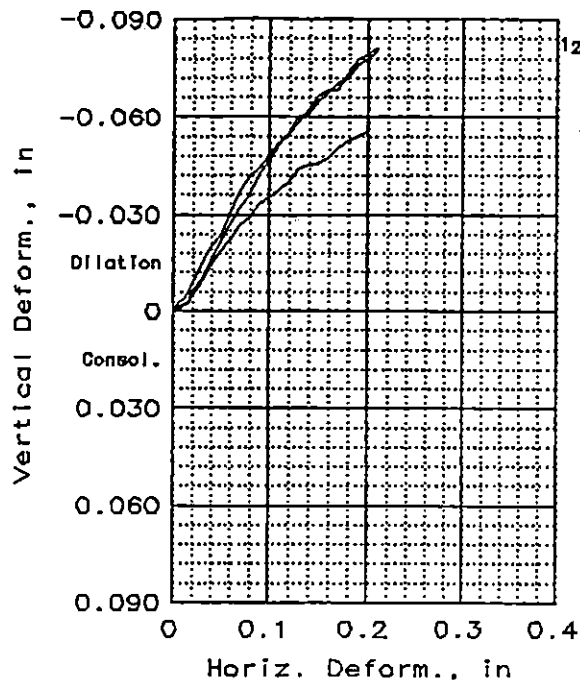
PROJECT: EAST NORTHPORT LANDFILL

SAMPLE LOCATION: S-71

PROJ. NO.: 94S1749-01 DATE: 08-10-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	6.8	6.8	6.8
	DRY DENSITY, pcf	110.2	110.2	110.2
	SATURATION, %	35.9	35.9	35.9
	VOID RATIO	0.501	0.501	0.501
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	6.8	6.8	6.8
	DRY DENSITY, pcf	110.2	110.2	110.2
	SATURATION, %	35.9	35.9	35.9
	VOID RATIO	0.501	0.501	0.501
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		465	694	783
RESIDUAL SHEAR, psf		382	622	641
Strain rate, in/min		0.010	0.010	0.010

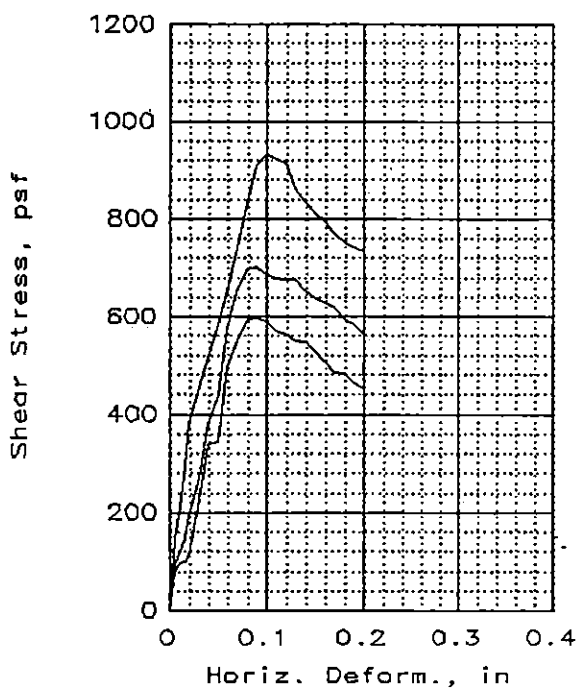
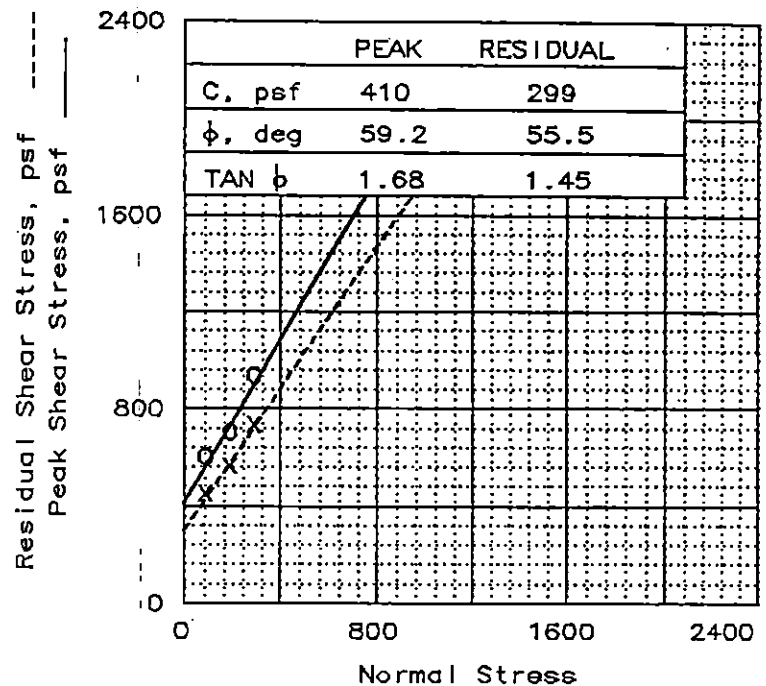
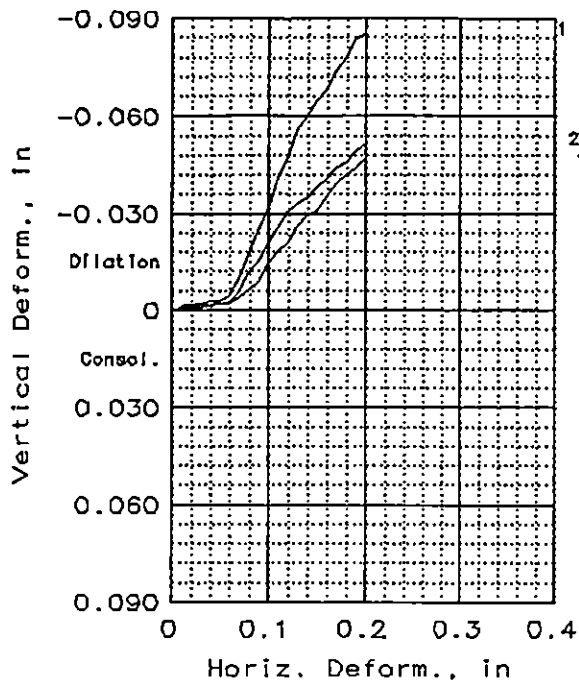
SAMPLE DATA
 SAMPLE TYPE: 85% MOD. PROCTOR
 DESCRIPTION: S-71, SELECT FILL
 LL= PL= PI=
 SPECIFIC GRAVITY= 2.65
 REMARKS: ASTM D-3080 DIRECT
 SHEAR STRENGTH TEST
 DRY CONDITION ASSUMED
 SPECIFIC GRAVITY ASSUMED
 FIG. NO. S-71A

CLIENT: TOWN OF HUNTINGTON
 PROJECT: EAST NORTPORT LANDFILL
 SAMPLE LOCATION: S-71A

PROJ. NO.: 94S1749-01 DATE: 08-23-95

DIRECT SHEAR TEST REPORT.

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	6.9	6.9	6.9
	DRY DENSITY, pcf	116.4	116.4	116.4
	SATURATION, %	43.3	43.3	43.3
	VOID RATIO	0.421	0.421	0.421
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	6.9	6.9	6.9
	DRY DENSITY, pcf	116.4	116.4	116.4
	SATURATION, %	43.3	43.3	43.3
	VOID RATIO	0.421	0.421	0.421
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		599	702	934
RESIDUAL SHEAR, psf		450	563	734
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA

SAMPLE TYPE: ALT. SELECT FILL
DESCRIPTION: S-72, SELECT FILL

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS: ASTM D-3080

DIRECT SHEAR STRENGTH TEST

DRY CONDITION

SPECIFIC GRAVITY ASSUMED

FIG. NO. S-72

CLIENT: TOWN OF HUNTINGTON

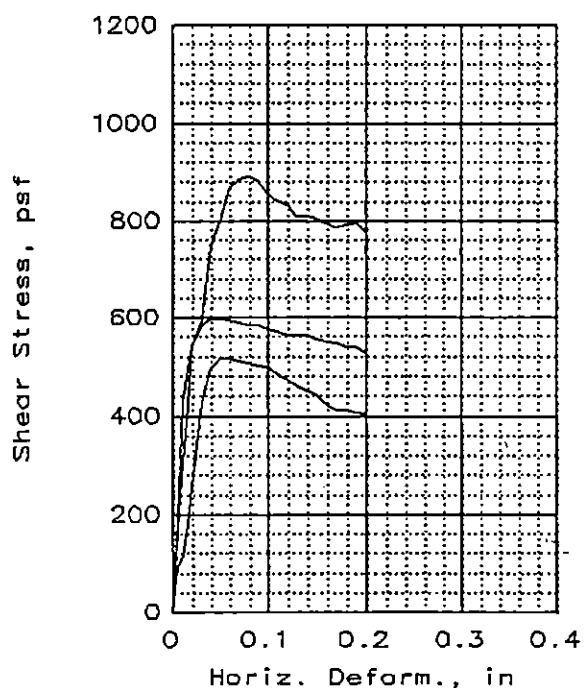
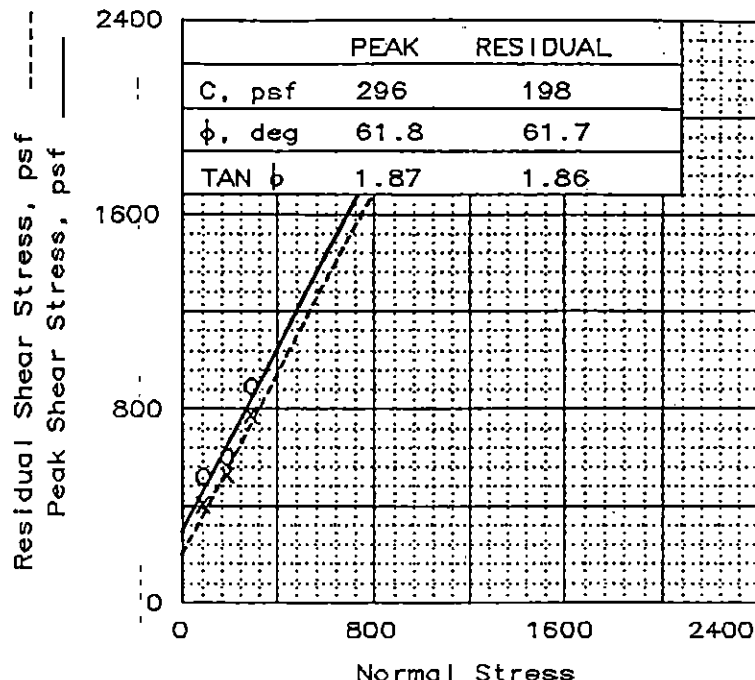
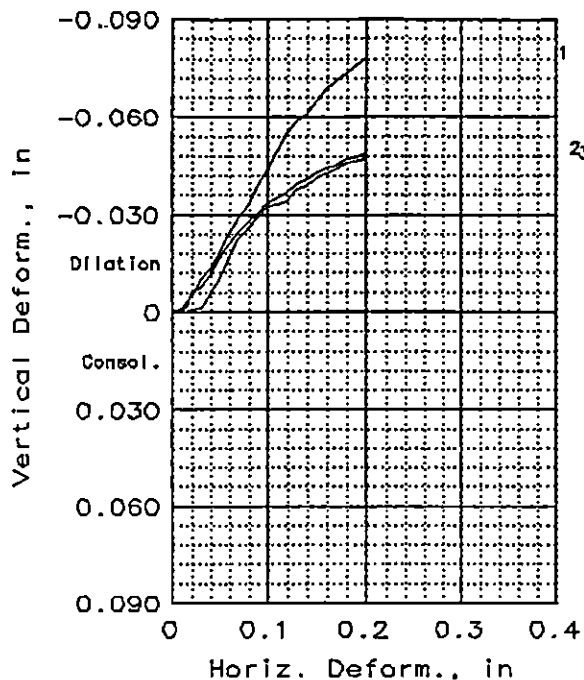
PROJECT: EAST NORTHPORT LANDFILL

SAMPLE LOCATION: S-72

PROJ. NO.: 94S1749-01 DATE: 08-11-95

DIRECT SHEAR TEST REPORT.

J & L TESTING CO., INC.

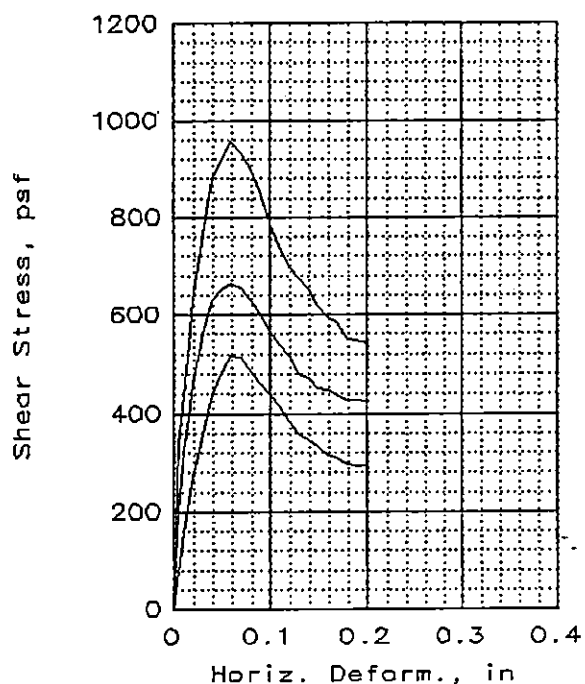
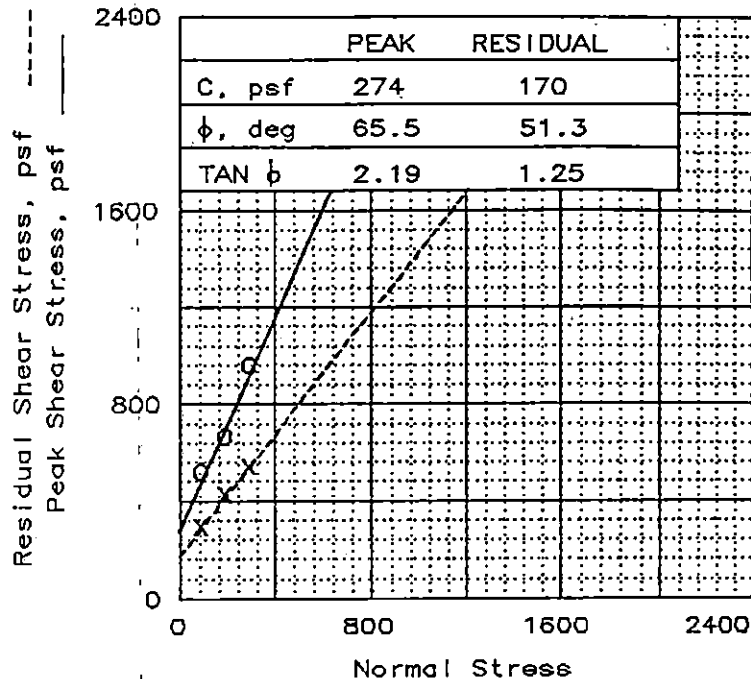
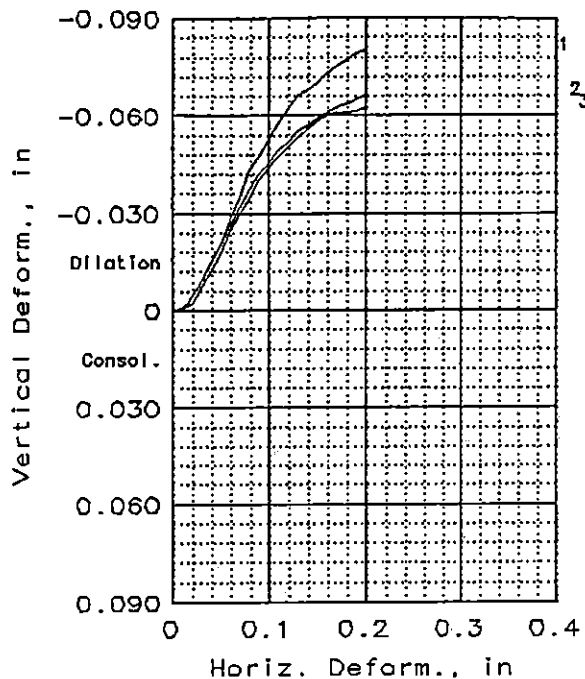


SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	6.8	6.8	6.8
	DRY DENSITY, pcf	117.7	117.7	117.7
	SATURATION, %	44.4	44.4	44.4
	VOID RATIO	0.406	0.406	0.406
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	6.8	6.8	6.8
	DRY DENSITY, pcf	117.7	117.7	117.7
	SATURATION, %	44.4	44.4	44.4
	VOID RATIO	0.406	0.406	0.406
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		518	599	891
RESIDUAL SHEAR, psf		405	527	777
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA
 SAMPLE TYPE: ALT. SELECT FILL
 DESCRIPTION: S-73, SELECT FILL
 LL= PL= PI=
 SPECIFIC GRAVITY= 2.65
 REMARKS: ASTM D-3080
 DIRECT SHEAR STRENGTH TEST
 DRY CONDITION
 SPECIFIC GRAVITY ASSUMED
 FIG. NO. S-73

CLIENT: TOWN OF HUNTINGTON
 PROJECT: EAST NORTHPORT LANDFILL
 SAMPLE LOCATION: S-73
 PROJ. NO.: 94S1749-01 DATE: 08-11-95

DIRECT SHEAR TEST REPORT
J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	7.8	7.8	7.8
	DRY DENSITY, pcf	117.5	117.5	117.5
	SATURATION, %	50.7	50.7	50.7
	VOID RATIO	0.409	0.409	0.409
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	7.8	7.8	7.8
	DRY DENSITY, pcf	117.5	117.5	117.5
	SATURATION, %	50.7	50.7	50.7
	VOID RATIO	0.409	0.409	0.409
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		518	664	957
RESIDUAL SHEAR, psf		293	425	542
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA
 SAMPLE TYPE: ALTERNATE SELECT
 DESCRIPTION: S-74, SELECT FILL

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS: ASTM D-3080

DIRECT SHEAR STRENGTH TESTING
 DRY CONDITION,
 SPECIFIC GRAVITY ASSUMED

FIG. NO. S-74

CLIENT: TOWN OF HUNTINGTON

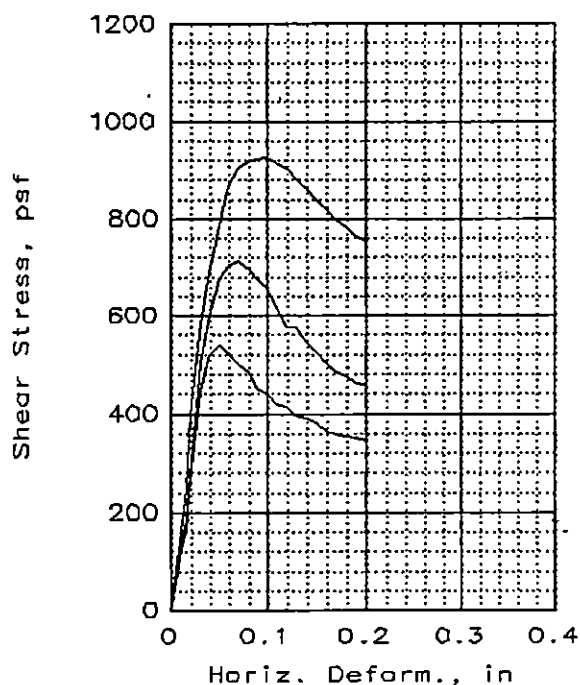
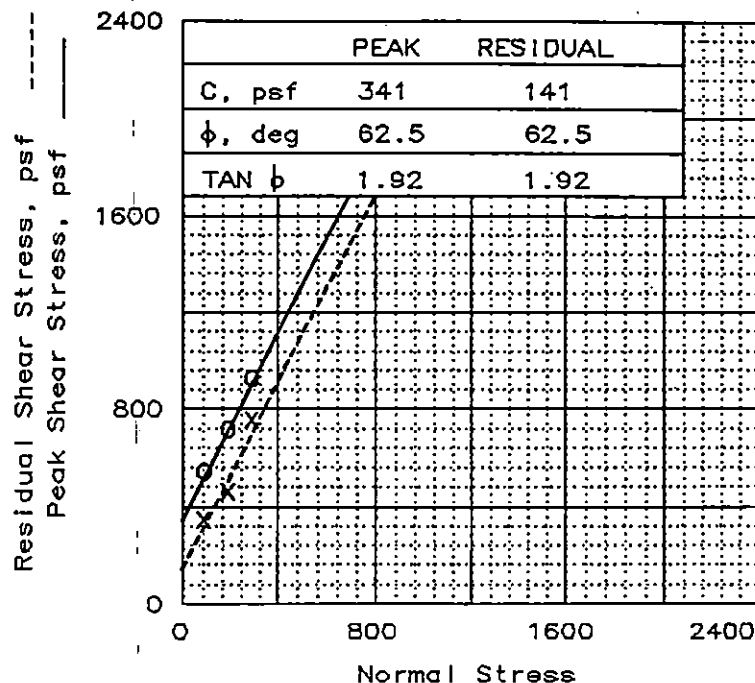
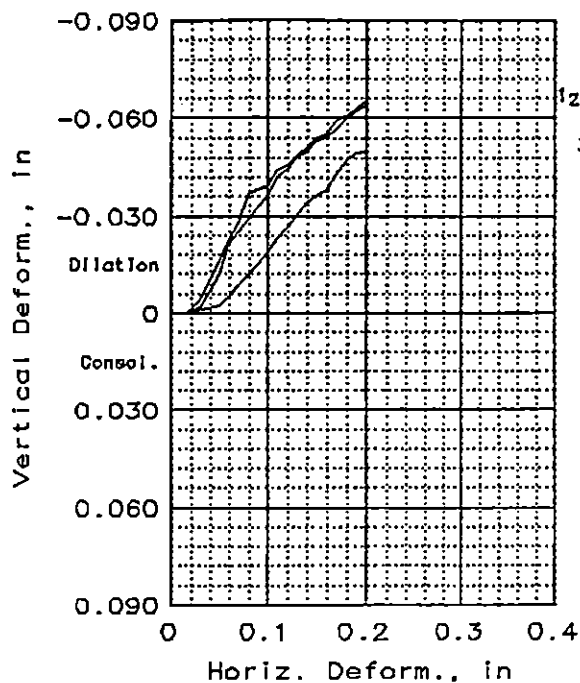
PROJECT: EAST NORTHPORT LANDFILL

SAMPLE LOCATION: S-74

PROJ. NO.: 94S1749-01 DATE: 07-26-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	7.2	7.2	7.2
	DRY DENSITY, pcf	114.4	114.4	114.4
	SATURATION, %	42.8	42.8	42.8
	VOID RATIO	0.446	0.446	0.446
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	7.2	7.2	7.2
	DRY DENSITY, pcf	114.4	114.4	114.4
	SATURATION, %	42.8	42.8	42.8
	VOID RATIO	0.446	0.446	0.446
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		540	714	925
RESIDUAL SHEAR, psf		347	459	754
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA
 SAMPLE TYPE: ALT. SELECT FILL
 DESCRIPTION: S-75, SELECT FILL

LL= PL= PI=
 SPECIFIC GRAVITY= 2.65

REMARKS: ASTM D-3080
 DIRECT SHEAR STRENGTH TEST
 DRY CONDITION
 SPECIFIC GRAVITY ASSUMED

FIG. NO. S-75

CLIENT: TOWN OF HUNTINGTON

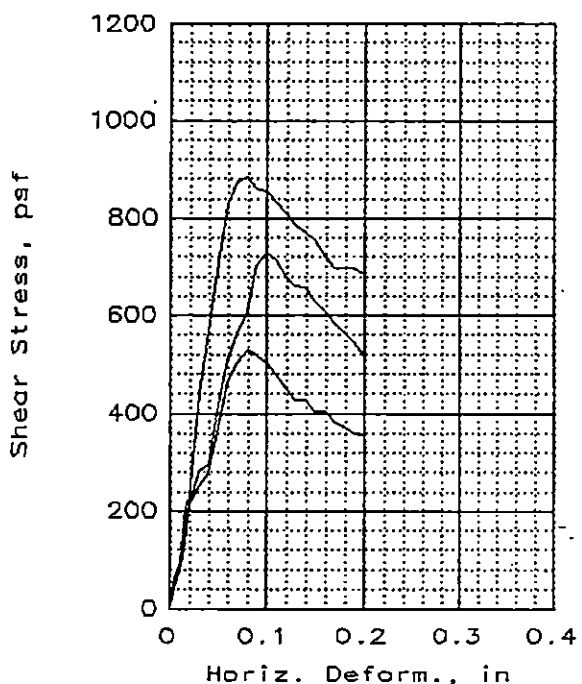
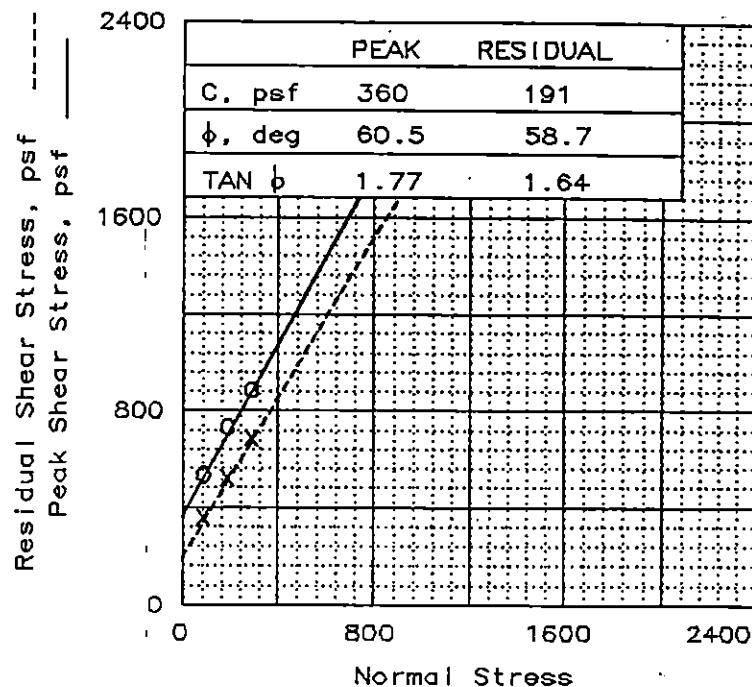
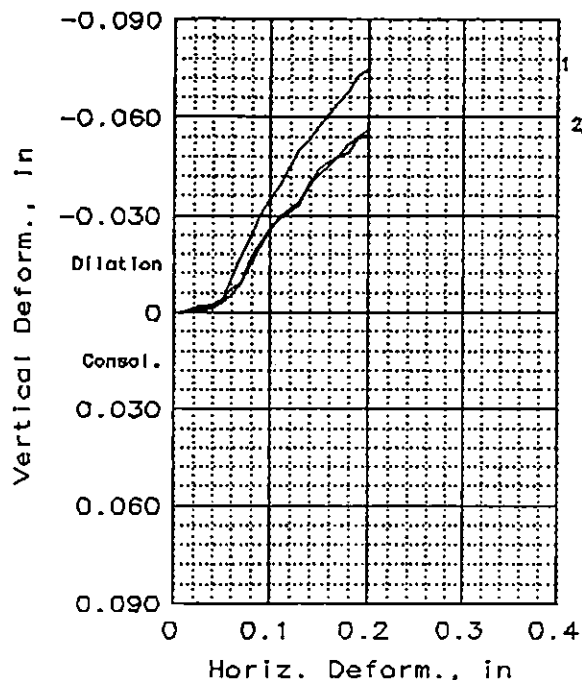
PROJECT: EAST NORTHPORT LANDFILL

SAMPLE LOCATION: S-75

PROJ. NO.: 94S1749-01 DATE: 08-14-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	6.6	6.6	6.6
	DRY DENSITY, pcf	116.0	116.0	116.0
	SATURATION, %	41.0	41.0	41.0
	VOID RATIO	0.426	0.426	0.426
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	6.6	6.6	6.6
	DRY DENSITY, pcf	116.0	116.0	116.0
	SATURATION, %	41.0	41.0	41.0
	VOID RATIO	0.426	0.426	0.426
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		529	729	882
RESIDUAL SHEAR, psf		356	518	684
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA
 SAMPLE TYPE: ALT. SELECT FILL
 DESCRIPTION: S-76, SELECT FILL

LL= PL= PI=
 SPECIFIC GRAVITY= 2.65
 REMARKS: ASTM D-3080

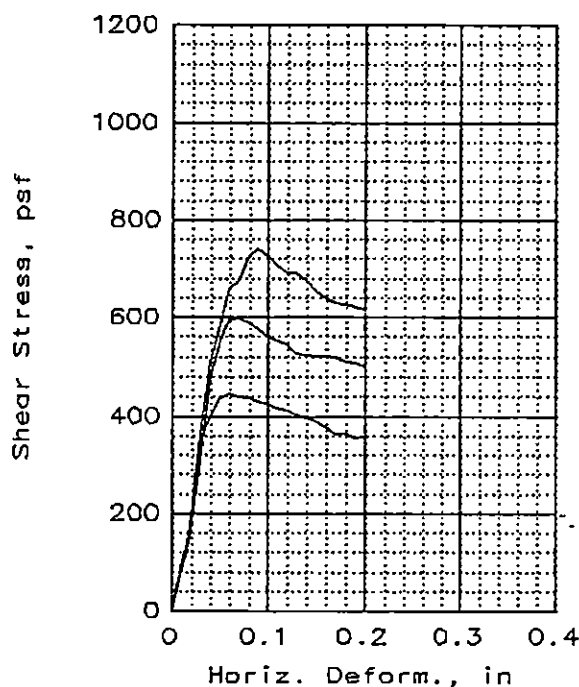
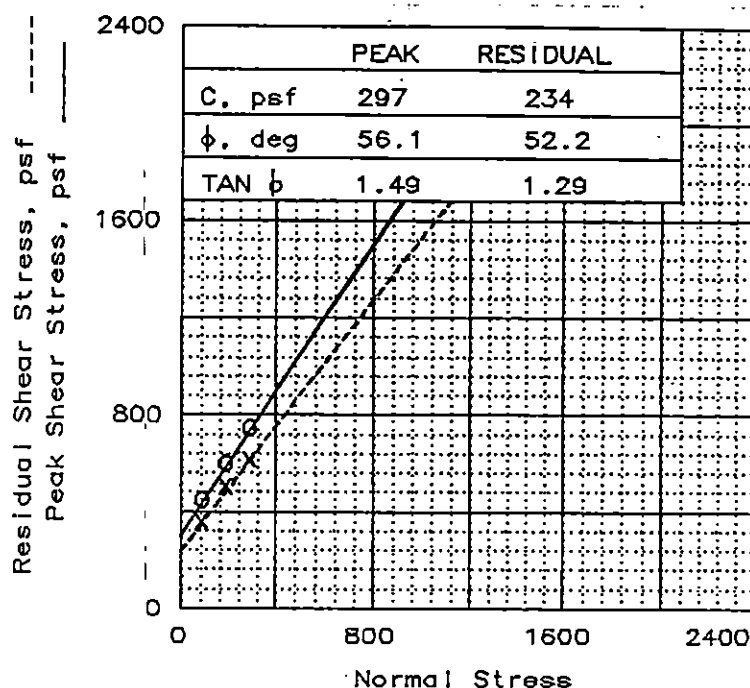
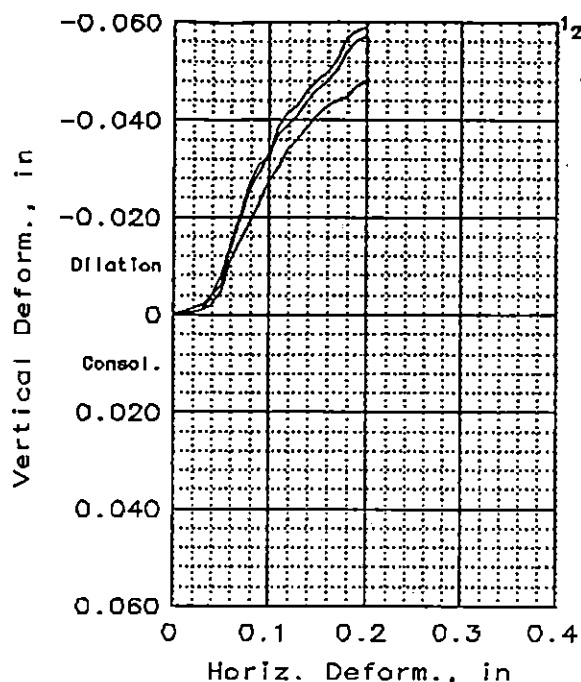
DIRECT SHEAR STRENGTH TEST
 DRY CONDITION
 SPECIFIC GRAVITY ASSUMED
 FIG. NO. S-76

CLIENT: TOWN OF HUNTINGTON
 PROJECT: EAST NORTHPORT LANDFILL
 SAMPLE LOCATION: S-76

PROJ. NO.: 94S1749-01 DATE: 08-15-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.



SAMPLE NO.:		1	2	3
INITIAL	WATER CONTENT, %	6.7	6.7	6.7
	DRY DENSITY, pcf	116.7	116.7	116.7
	SATURATION, %	42.5	42.5	42.5
	VOID RATIO	0.418	0.418	0.418
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	6.7	6.7	6.7
	DRY DENSITY, pcf	116.7	116.7	116.7
	SATURATION, %	42.5	42.5	42.5
	VOID RATIO	0.418	0.418	0.418
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		445	598	743
RESIDUAL SHEAR, psf		357	501	615
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA

SAMPLE TYPE: ALT. SELECT FILL
DESCRIPTION: S-77, SELECT FILL

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS: ASTM D-3080

DIRECT SHEAR STRENGTH TEST

DRY CONDITION

SPECIFIC GRAVITY ASSUMED

FIG. NO. S-77

CLIENT: TOWN OF HUNTINGTON

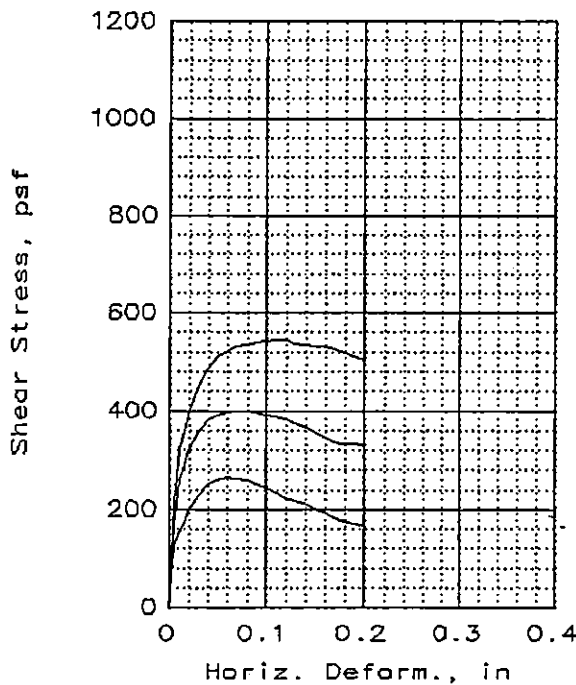
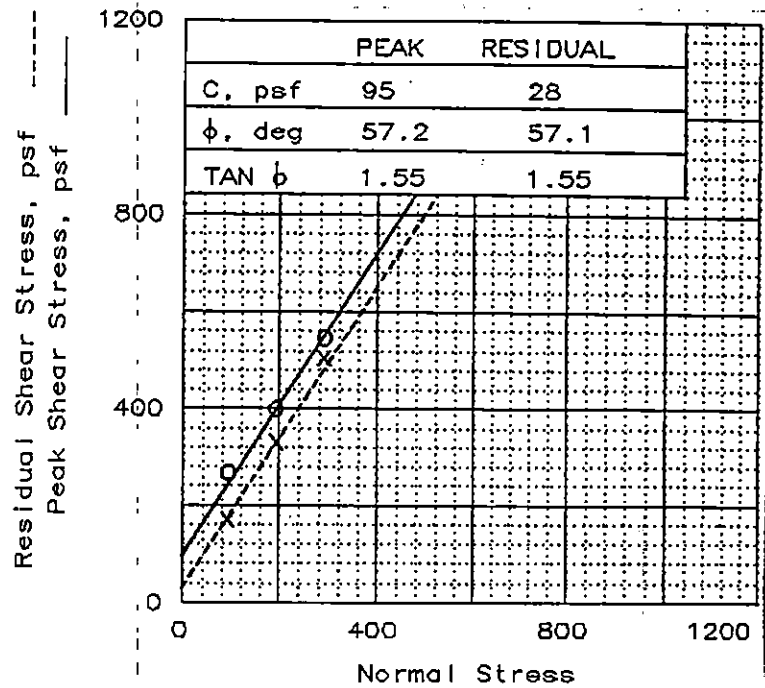
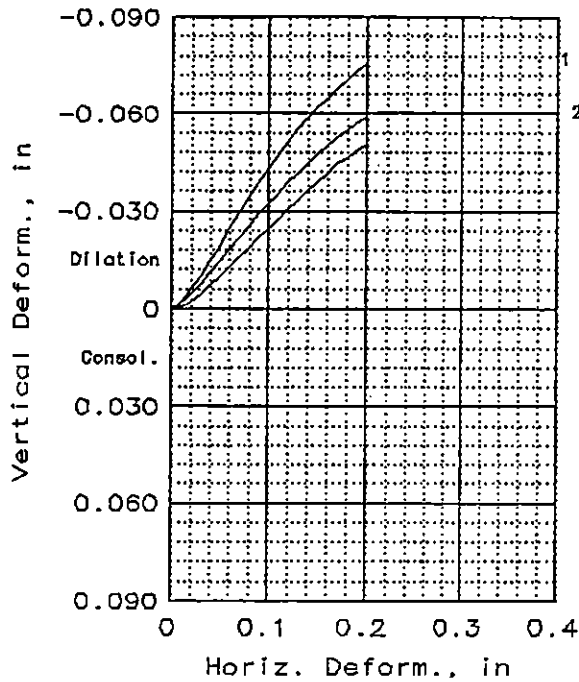
PROJECT: EAST NORTHPORT LANDFILL

SAMPLE LOCATION: S-77

PROJ. NO.: 94S1749-01 DATE: 08-15-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	7.8	7.8	7.8
	DRY DENSITY, pcf	104.4	104.4	104.4
	SATURATION, %	35.4	35.4	35.4
	VOID RATIO	0.584	0.584	0.584
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	7.8	7.8	7.8
	DRY DENSITY, pcf	104.4	104.4	104.4
	SATURATION, %	35.4	35.4	35.4
	VOID RATIO	0.584	0.584	0.584
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		266	398	545
RESIDUAL SHEAR, psf		169	331	504
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA
 SAMPLE TYPE: ALTERNATE SELECT
 DESCRIPTION: S-77A, SELECT FILL

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS: ASTM D-3080

DIRECT SHEAR STRENGTH TESTING

DRY CONDITION,

SPECIFIC GRAVITY ASSUMED

FIG. NO. S-77A

CLIENT: TOWN OF HUNTINGTON

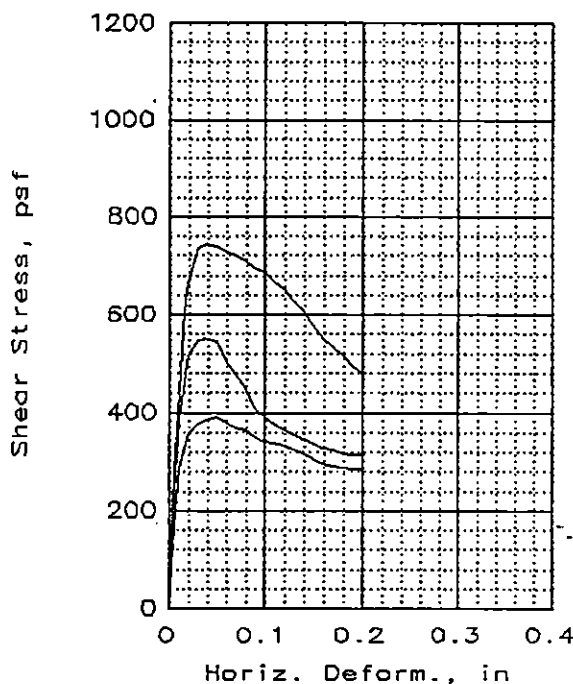
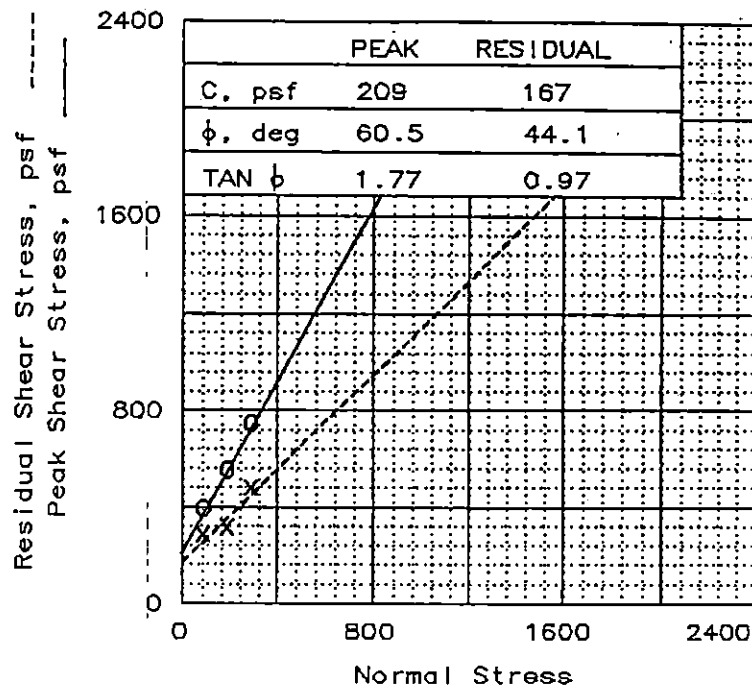
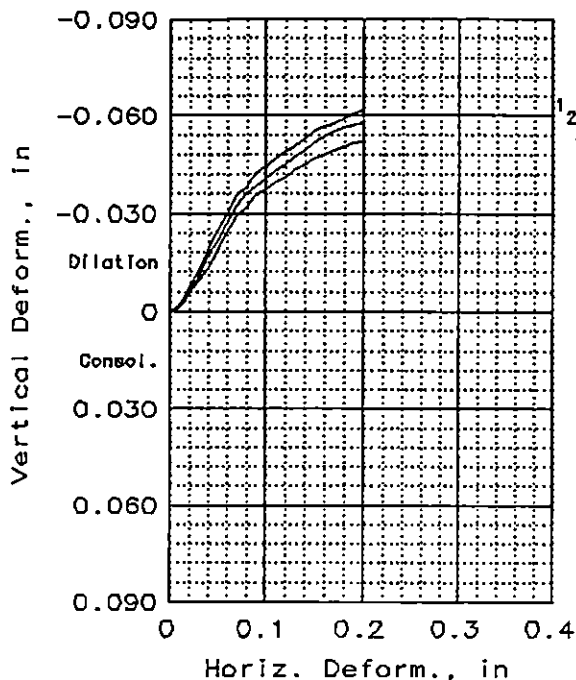
PROJECT: EAST NORTHPORT LANDFILL

SAMPLE LOCATION: S-77A

PROJ. NO.: 94S1749-01 DATE: 08-03-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	6.5	6.5	6.5
	DRY DENSITY, pcf	117.9	117.9	117.9
	SATURATION, %	42.7	42.7	42.7
	VOID RATIO	0.404	0.404	0.404
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	6.5	6.5	6.5
	DRY DENSITY, pcf	117.9	117.9	117.9
	SATURATION, %	42.7	42.7	42.7
	VOID RATIO	0.404	0.404	0.404
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		392	551	745
RESIDUAL SHEAR, psf		286	315	479
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA

SAMPLE TYPE: ALT. SELECT FILL
DESCRIPTION: S-78, SELECT FILL

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS: ASTM D-3080

DIRECT SHEAR STRENGTH TEST
DRY CONDITION

SPECIFIC GRAVITY ASSUMED

FIG. NO. S-78

CLIENT: TOWN OF HUNTINGTON

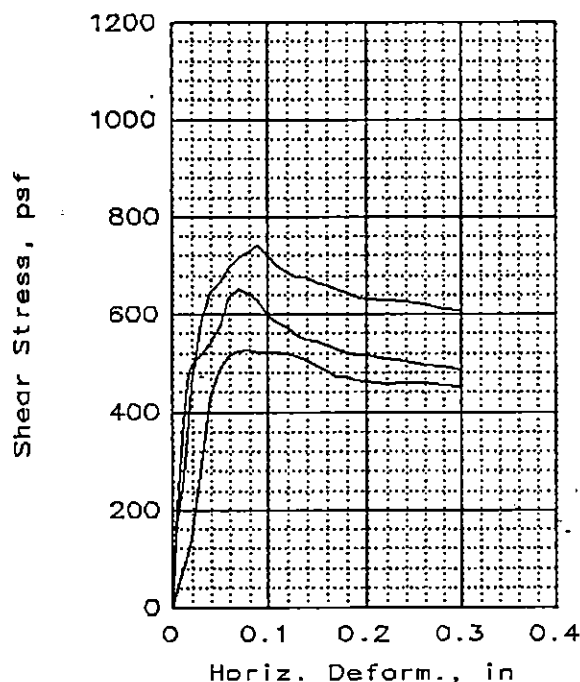
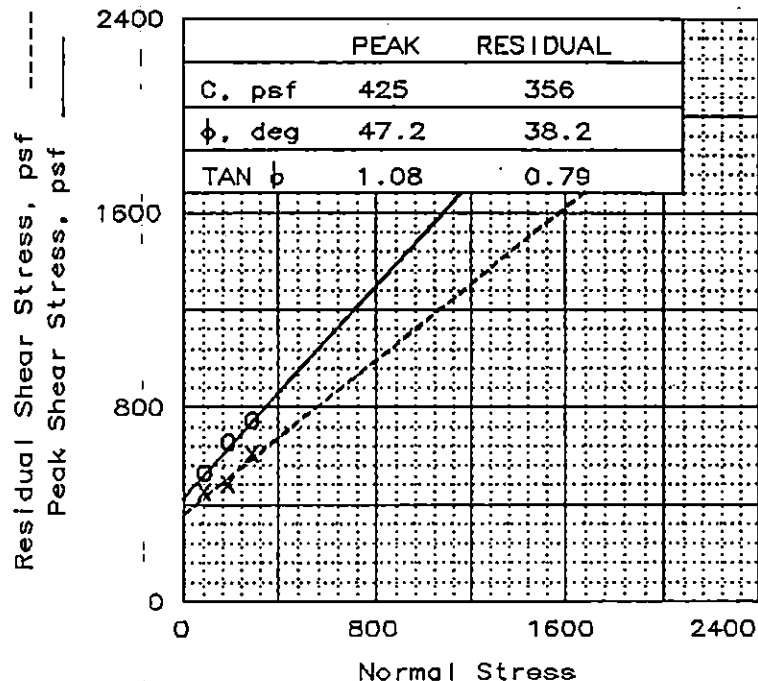
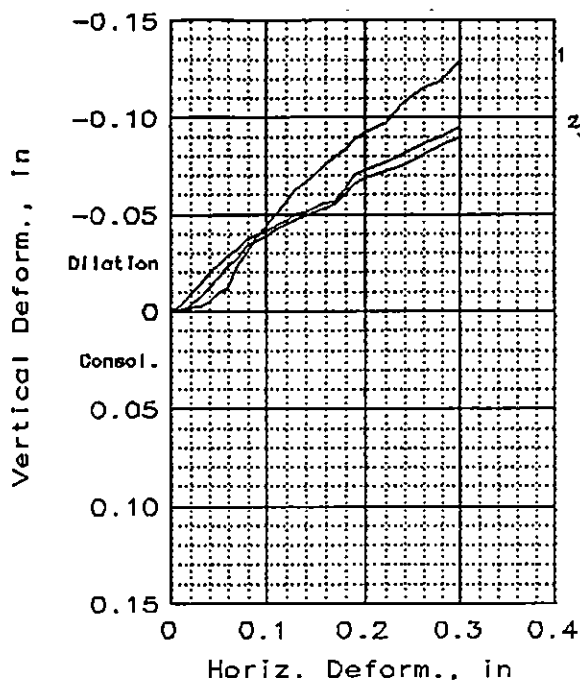
PROJECT: EAST NORTHPORT LANDFILL

SAMPLE LOCATION: S-78

PROJ. NO.: 94S1749-01 DATE: 08-15-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	6.5	6.5	6.5
	DRY DENSITY, pcf	110.5	110.5	110.5
	SATURATION, %	34.6	34.6	34.6
	VOID RATIO	0.498	0.498	0.498
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	6.5	6.5	6.5
	DRY DENSITY, pcf	110.5	110.5	110.5
	SATURATION, %	34.6	34.7	34.6
	VOID RATIO	0.498	0.498	0.498
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		527	653	743
RESIDUAL SHEAR, psf		450	484	608
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA

SAMPLE TYPE: ALT. SELECT FILL
DESCRIPTION: S-79, SELECT FILL

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS: ASTM D-3080

DIRECT SHEAR STRENGTH TEST

DRY CONDITION

SPECIFIC GRAVITY ASSUMED

FIG. NO. S-79

CLIENT: TOWN OF HUNTINGTON

PROJECT: EAST NORTHPORT LANDFILL

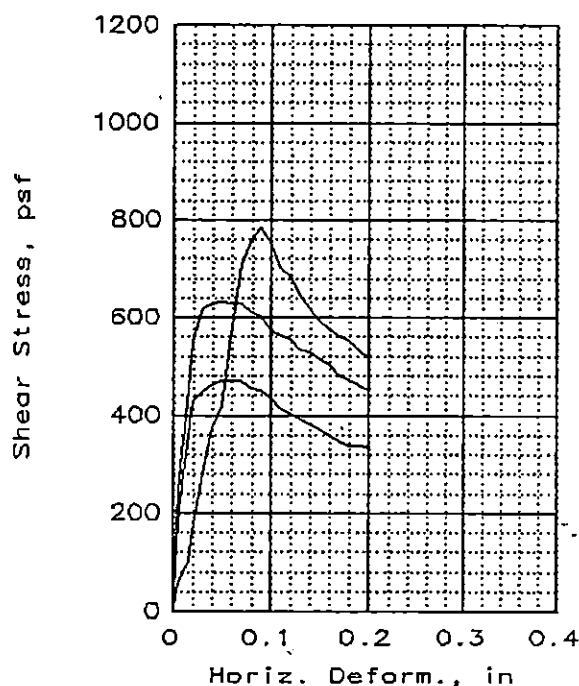
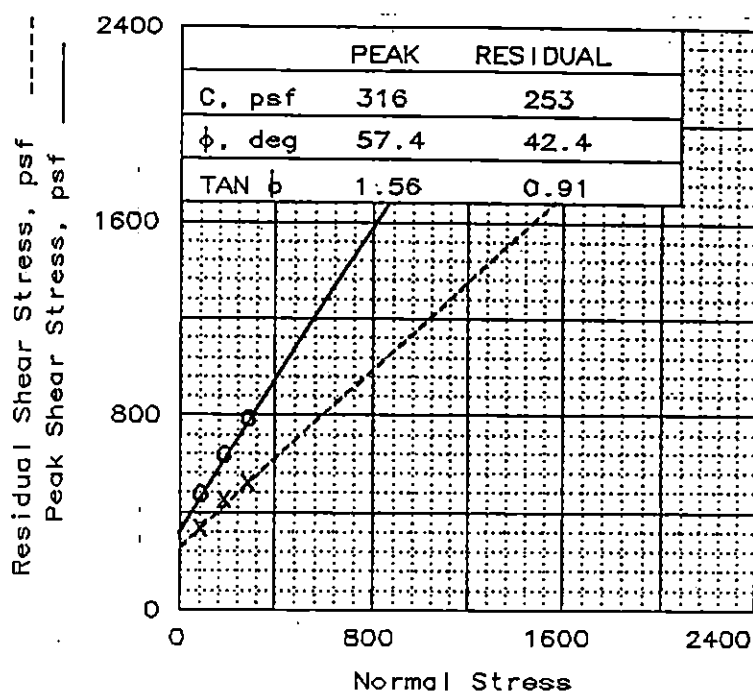
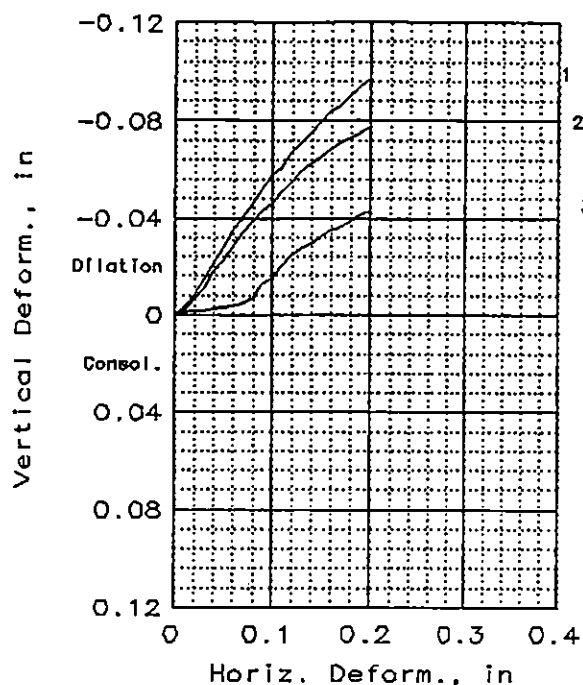
SAMPLE LOCATION: S-79

PROJ. NO.: 94S1749-01

DATE: 08-24-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	7.7	7.7	7.7
	DRY DENSITY, pcf	110.0	110.0	110.0
	SATURATION, %	40.5	40.5	40.5
	VOID RATIO	0.503	0.503	0.503
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	7.7	7.7	7.7
	DRY DENSITY, pcf	110.0	110.0	110.0
	SATURATION, %	40.5	40.5	40.5
	VOID RATIO	0.503	0.503	0.503
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		470	633	783
RESIDUAL SHEAR, psf		335	452	518
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA

SAMPLE TYPE: ALT. SELECT FILL
DESCRIPTION: S-80, SELECT FILL

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS: ASTM D-3080

DIRECT SHEAR STRENGTH TEST

DRY CONDITION

SPECIFIC GRAVITY ASSUMED

FIG. NO. S-80

CLIENT: TOWN OF HUNTINGTON

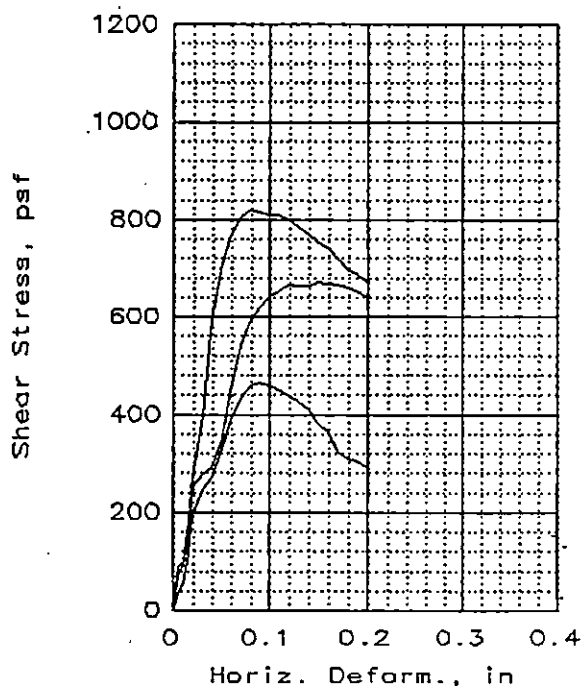
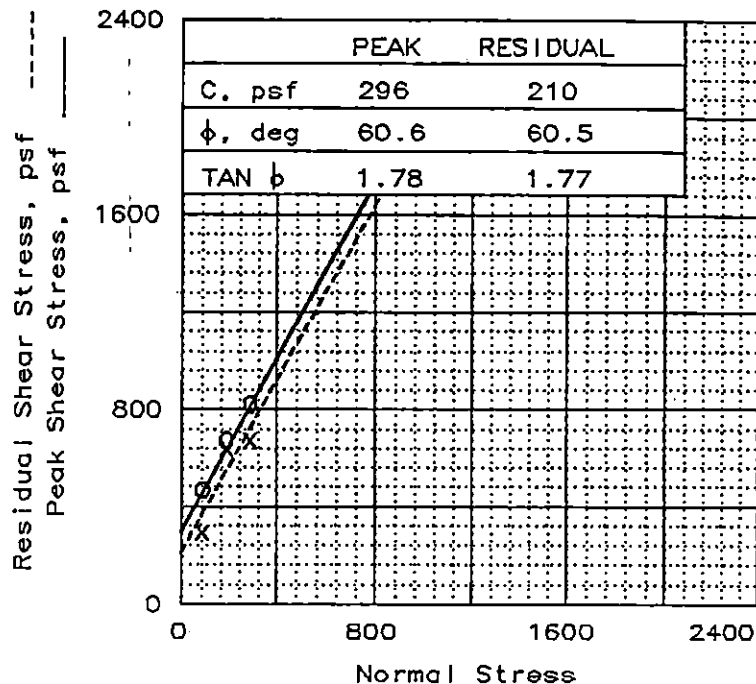
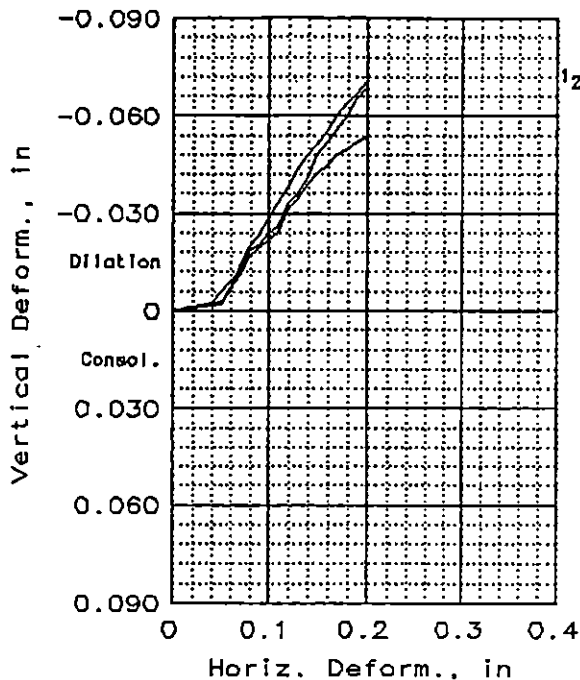
PROJECT: EAST NORTHPORT LANDFILL

SAMPLE LOCATION: S-80

PROJ. NO.: 94S1749-01 DATE: 08-25-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	7.7	7.7	7.7
	DRY DENSITY, pcf	110.2	110.2	110.2
	SATURATION, %	40.7	40.7	40.7
	VOID RATIO	0.501	0.501	0.501
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	7.7	0.7	0.7
	DRY DENSITY, pcf	110.2	110.2	110.2
	SATURATION, %	40.7	3.7	3.7
	VOID RATIO	0.501	0.501	0.501
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		464	671	819
RESIDUAL SHEAR, psf		290	639	671
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA

SAMPLE TYPE: ALT. SELECT FILL
DESCRIPTION: S-81, SELECT FILL

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS: ASTM D-3080

DIRECT SHEAR STRENGTH TEST

DRY CONDITION

SPECIFIC GRAVITY ASSUMED

FIG. NO. S-81

CLIENT: TOWN OF HUNTINGTON

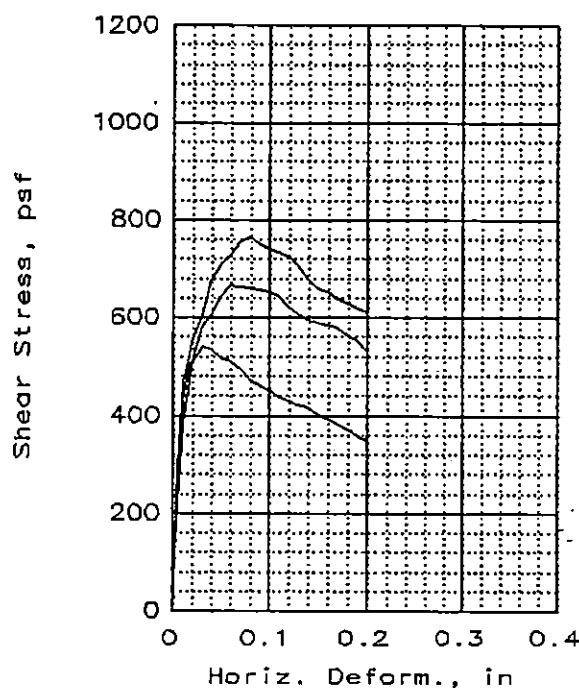
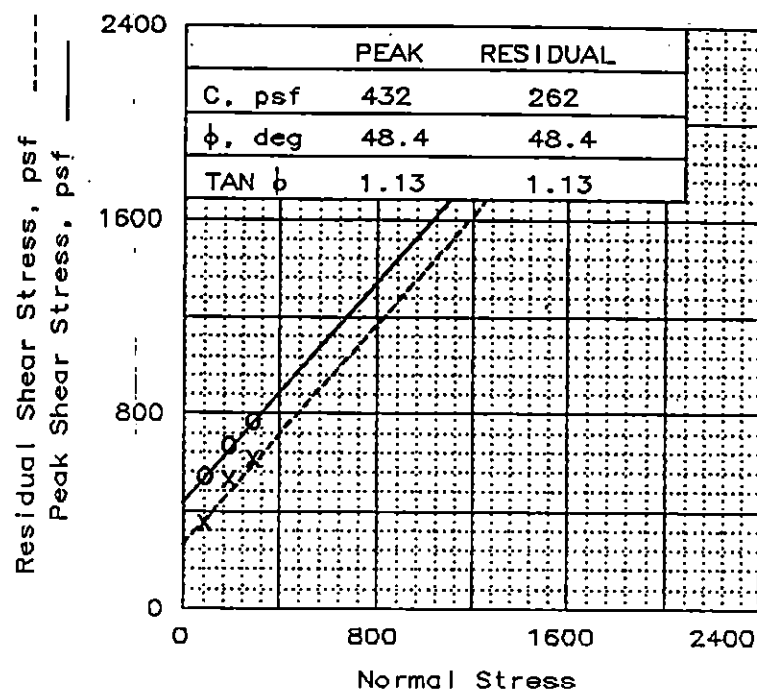
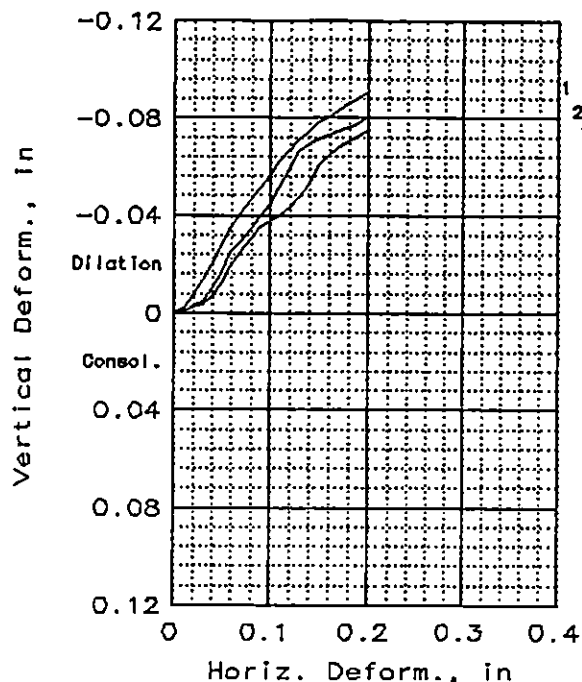
PROJECT: EAST NORTHPORT LANDFILL

SAMPLE LOCATION: S-81

PROJ. NO.: 94S1749-01 DATE: 08-25-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	6.8	6.8	6.8
	DRY DENSITY, pcf	111.4	111.4	111.4
	SATURATION, %	37.1	37.1	37.1
	VOID RATIO	0.485	0.485	0.485
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	6.8	6.8	6.8
	DRY DENSITY, pcf	111.4	111.4	111.4
	SATURATION, %	37.1	37.1	37.1
	VOID RATIO	0.485	0.485	0.485
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		540	666	765
RESIDUAL SHEAR, psf		349	529	612
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA

SAMPLE TYPE: ALT. SELECT FILL
DESCRIPTION: S-82, SELECT FILL

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS: ASTM D-3080

DIRECT SHEAR STRENGTH TEST
DRY CONDITION

SPECIFIC GRAVITY ASSUMED

FIG. NO. S-82

CLIENT: TOWN OF HUNTINGTON

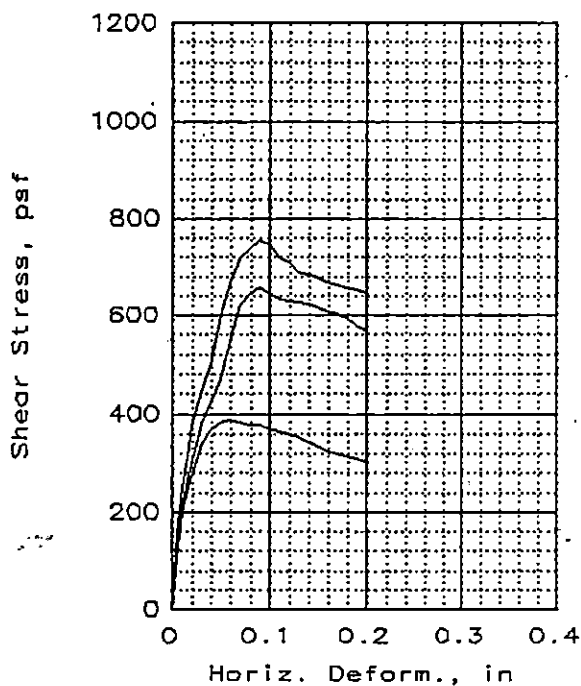
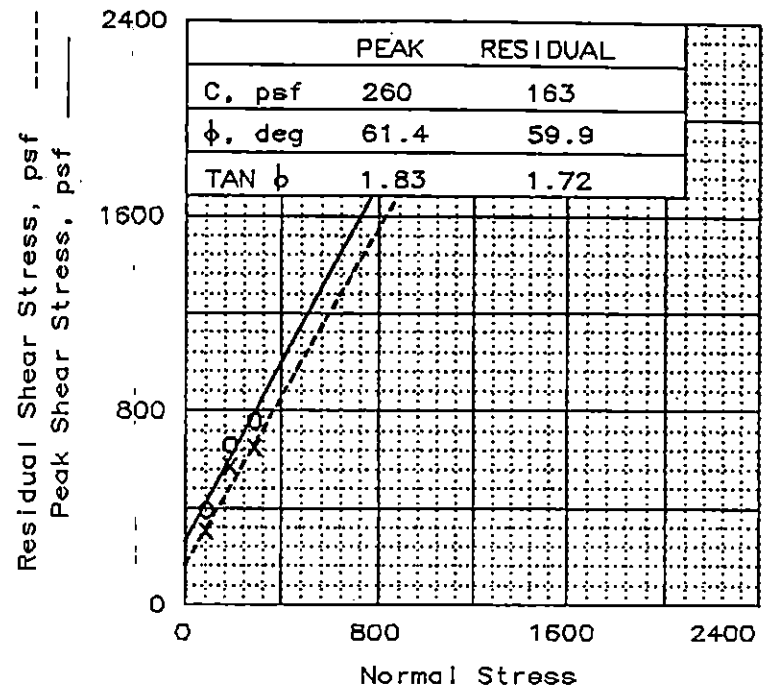
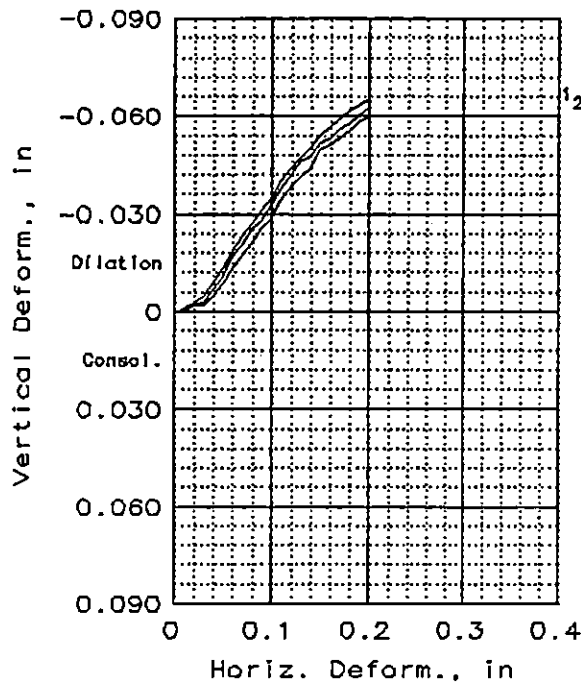
PROJECT: EAST NORTHPORT LANDFILL

SAMPLE LOCATION: S-82

PROJ. NO.: 94S1749-01 DATE: 08-25-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	7.0	7.0	7.0
	DRY DENSITY, pcf	111.1	111.1	111.1
	SATURATION, %	37.9	37.9	37.9
	VOID RATIO	0.490	0.490	0.490
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	7.0	7.0	7.0
	DRY DENSITY, pcf	111.1	111.1	111.1
	SATURATION, %	37.9	37.9	37.9
	VOID RATIO	0.490	0.490	0.490
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		387	657	756
RESIDUAL SHEAR, psf		304	570	648
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA

SAMPLE TYPE: ALT. SELECT FILL
DESCRIPTION: S-83, SELECT FILL

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS: ASTM D-3080

DIRECT SHEAR STRENGTH TEST
DRY CONDITION

SPECIFIC GRAVITY ASSUMED

FIG. NO. S-83

CLIENT: TOWN OF HUNTINGTON

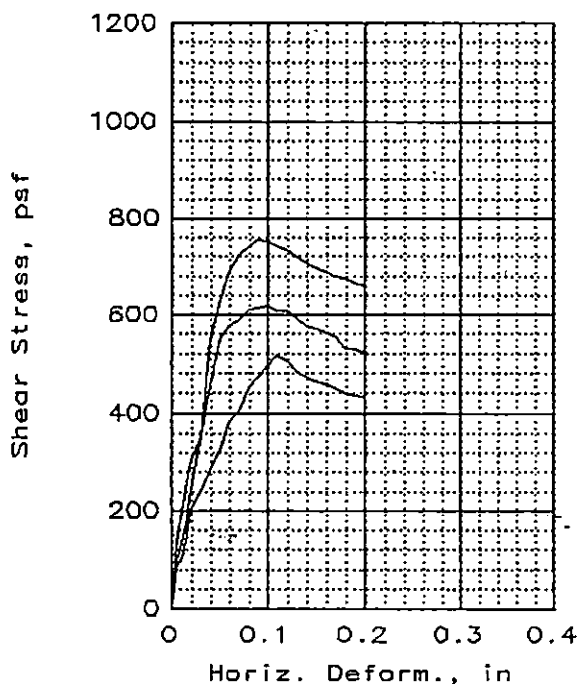
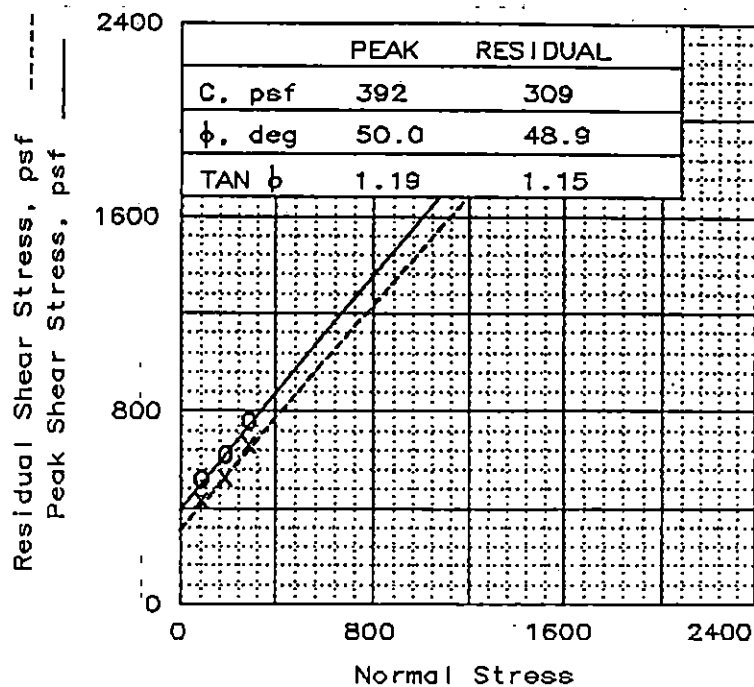
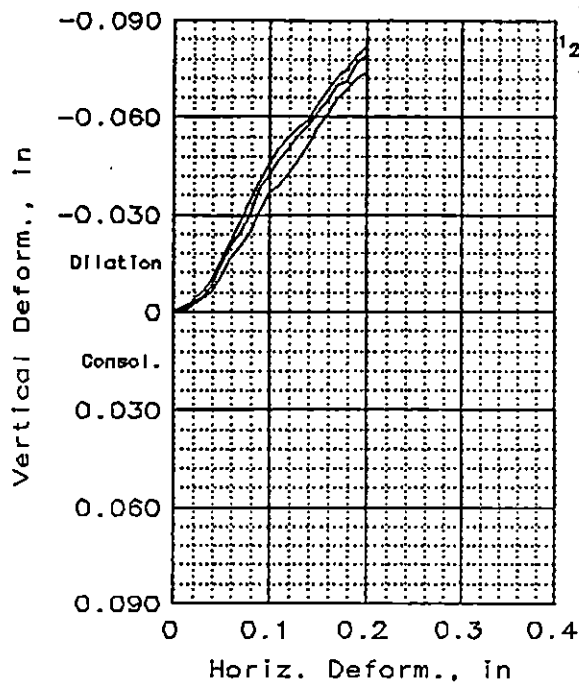
PROJECT: EAST NORTHPORT LANDFILL

SAMPLE LOCATION: S-83

PROJ. NO.: 94S1749-01 DATE: 08-28-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	7.0	7.0	7.0
	DRY DENSITY, pcf	109.8	109.8	109.8
	SATURATION, %	36.6	36.6	36.6
	VOID RATIO	0.507	0.507	0.507
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	7.0	7.0	7.0
	DRY DENSITY, pcf	109.8	109.8	109.8
	SATURATION, %	36.6	36.6	36.6
	VOID RATIO	0.507	0.507	0.507
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		518	619	756
RESIDUAL SHEAR, psf		432	522	662
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA
 SAMPLE TYPE: ALT. SELECT FILL
 DESCRIPTION: S-84, SELECT FILL

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS: ASTM D-3080

DIRECT SHEAR STRENGTH TEST

DRY CONDITION

SPECIFIC GRAVITY ASSUMED

FIG. NO. S-84

CLIENT: TOWN OF HUNTINGTON

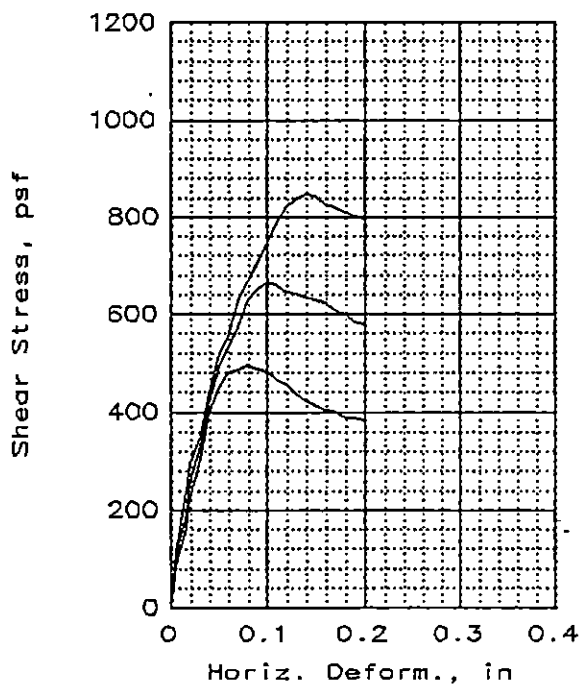
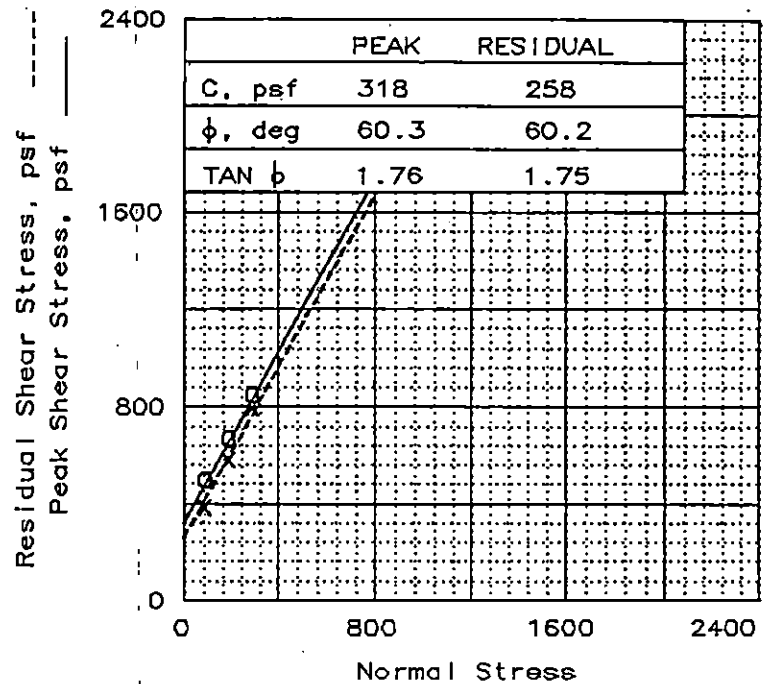
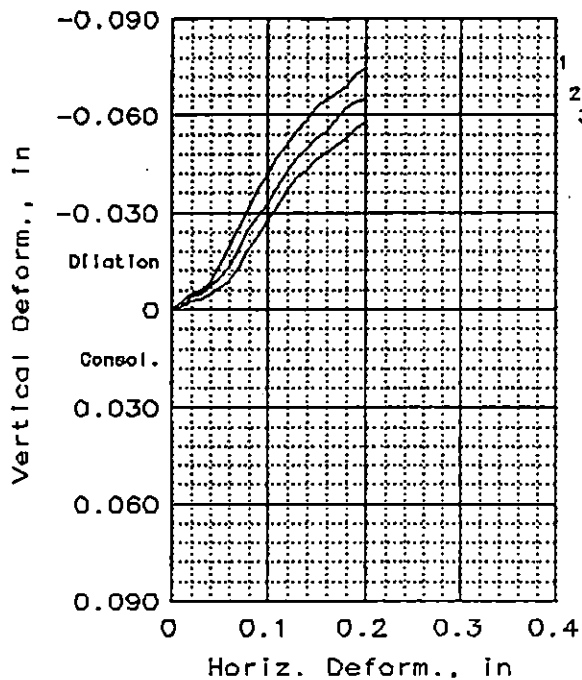
PROJECT: EAST NORTHPORT LANDFILL

SAMPLE LOCATION: S-84

PROJ. NO.: 94S1749-01 DATE: 08-28-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	6.8	6.8	6.8
	DRY DENSITY, pcf	111.5	111.5	111.5
	SATURATION, %	37.3	37.3	37.3
	VOID RATIO	0.483	0.483	0.483
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	6.8	6.8	6.8
	DRY DENSITY, pcf	111.5	111.5	111.5
	SATURATION, %	37.3	37.3	37.3
	VOID RATIO	0.483	0.483	0.483
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		495	666	846
RESIDUAL SHEAR, psf		383	579	797
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA

SAMPLE TYPE: ALT. SELECT FILL
DESCRIPTION: S-85, SELECT FILL

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS: ASTM D-3080

DIRECT SHEAR STRENGTH TEST

DRY CONDITION

SPECIFIC GRAVITY ASSUMED

FIG. NO. S-85

CLIENT: TOWN OF HUNTINGTON

PROJECT: EAST NORTHPORT LANDFILL

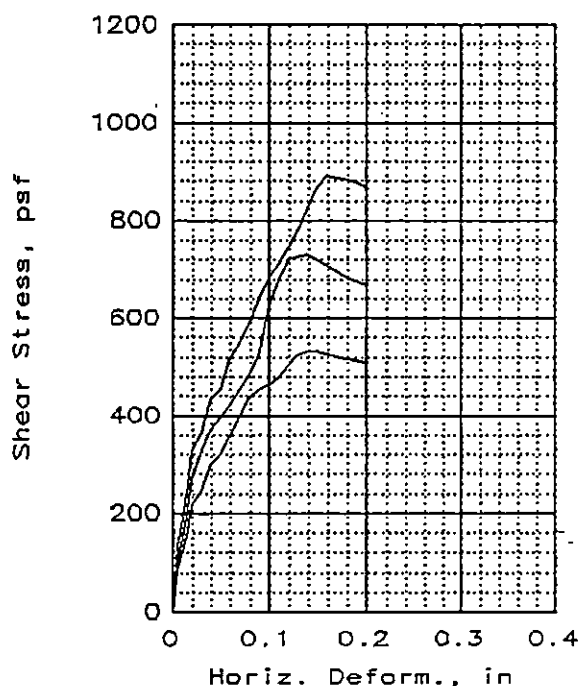
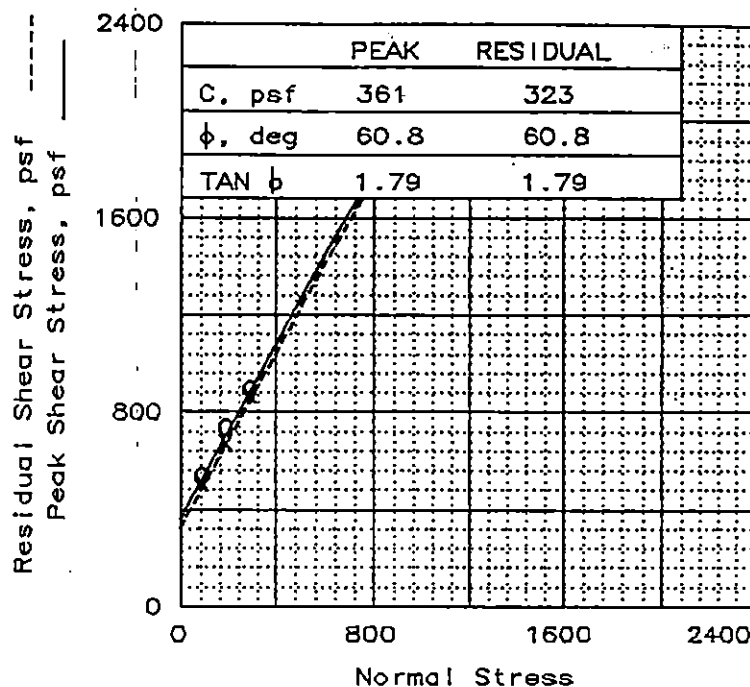
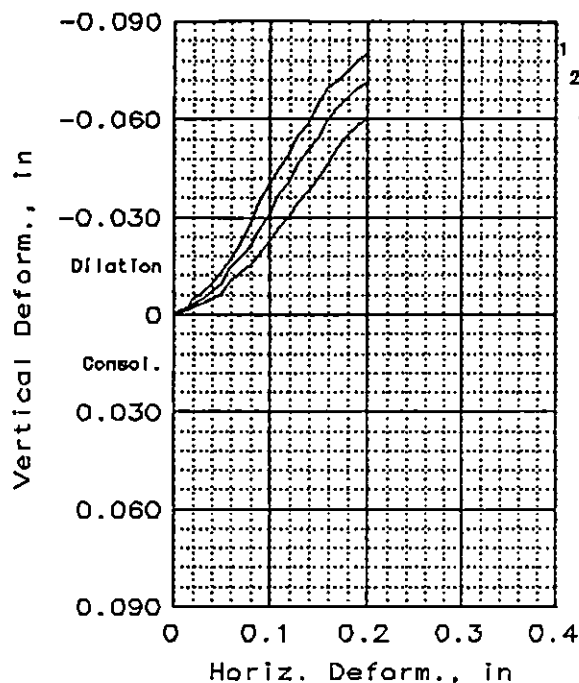
SAMPLE LOCATION: S-85

PROJ. NO.: 94S1749-01

DATE: 09-05-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	6.9	6.9	6.9
	DRY DENSITY, pcf	111.6	111.6	111.6
	SATURATION, %	37.9	37.9	37.9
	VOID RATIO	0.483	0.483	0.483
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	6.9	6.9	6.9
	DRY DENSITY, pcf	111.6	111.6	111.6
	SATURATION, %	37.9	37.9	37.9
	VOID RATIO	0.483	0.483	0.483
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		533	732	891
RESIDUAL SHEAR, psf		509	669	867
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA

SAMPLE TYPE: ALT. SELECT FILL
DESCRIPTION: S-86, SELECT FILL

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS: ASTM D-3080

DIRECT SHEAR STRENGTH TEST
DRY CONDITION

SPECIFIC GRAVITY ASSUMED

FIG. NO. S-86

CLIENT: TOWN OF HUNTINGTON

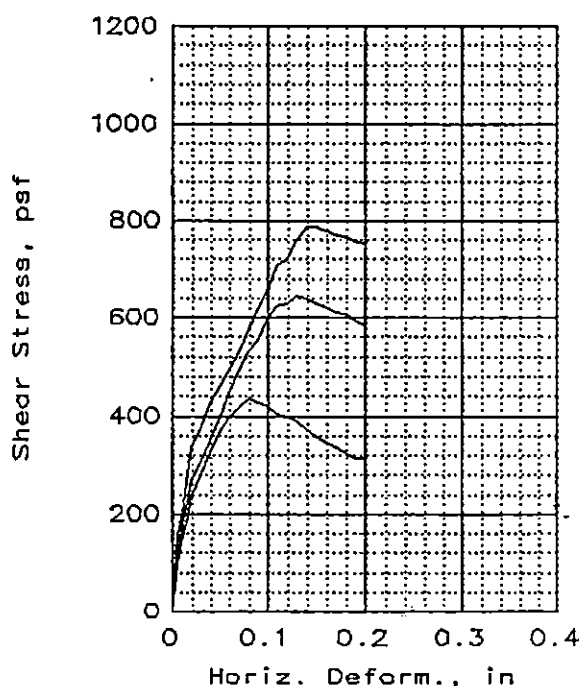
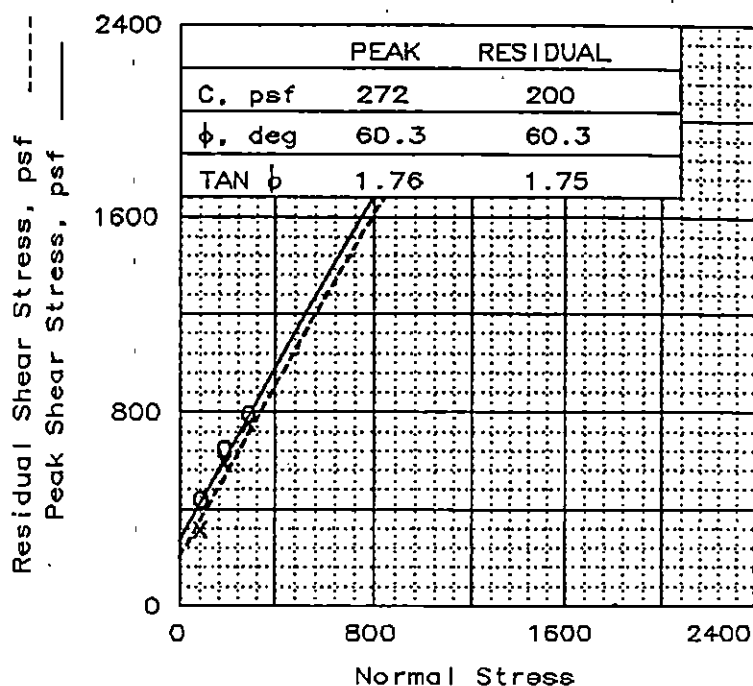
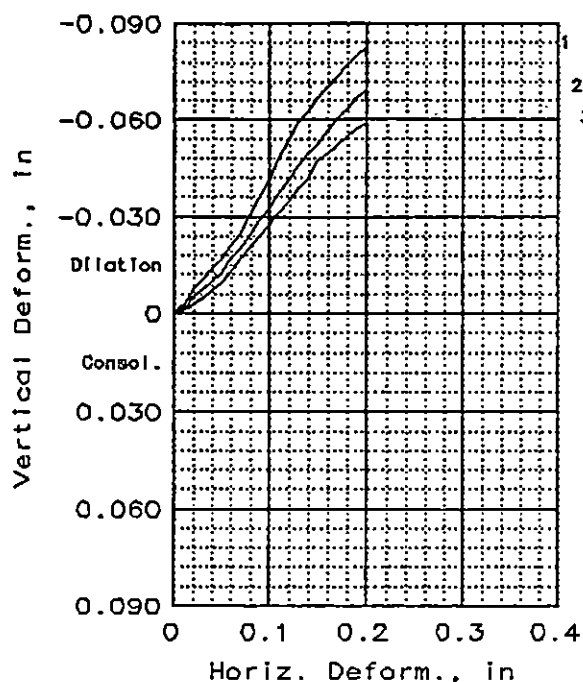
PROJECT: EAST NORTHPORT LANDFILL

SAMPLE LOCATION: S-86

PROJ. NO.: 94S1749-01 DATE: 09-05-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	7.2	7.2	7.2
	DRY DENSITY, pcf	110.1	110.1	110.1
	SATURATION, %	38.0	38.0	38.0
	VOID RATIO	0.502	0.502	0.502
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	7.2	7.2	7.2
	DRY DENSITY, pcf	110.1	110.1	110.1
	SATURATION, %	38.0	38.0	38.0
	VOID RATIO	0.502	0.502	0.502
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		437	646	788
RESIDUAL SHEAR, psf		315	585	752
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA

SAMPLE TYPE: ALT. SELECT FILL
DESCRIPTION: S-87, SELECT FILL

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS: ASTM D-3080

DIRECT SHEAR STRENGTH TEST

DRY CONDITION

SPECIFIC GRAVITY ASSUMED

FIG. NO. S-87

CLIENT: TOWN OF HUNTINGTON

PROJECT: EAST NORTHPORT LANDFILL

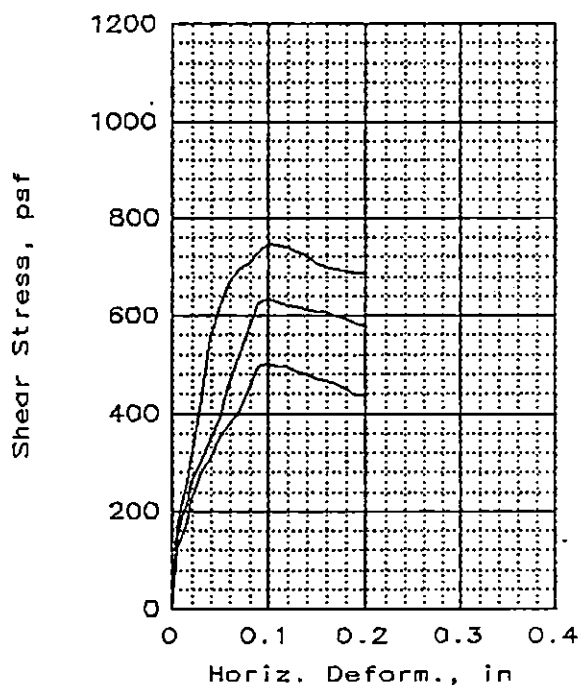
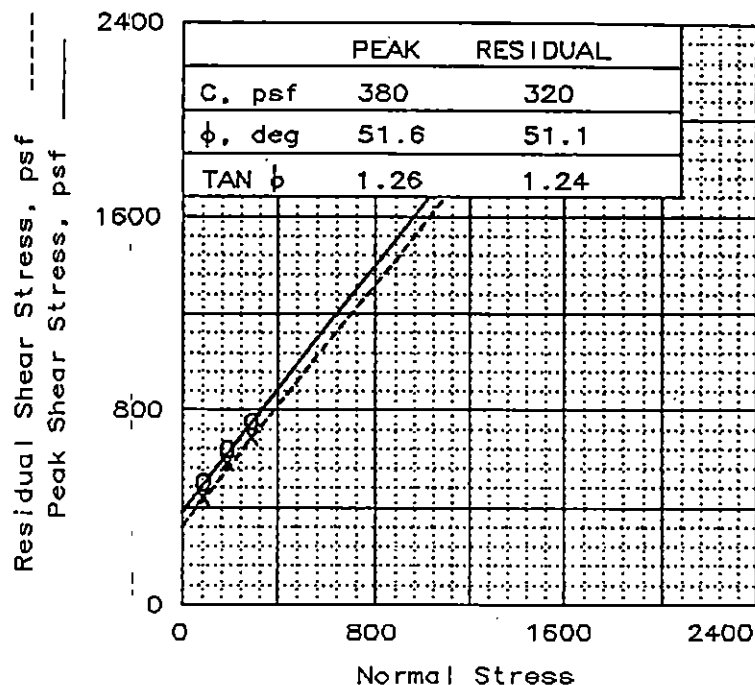
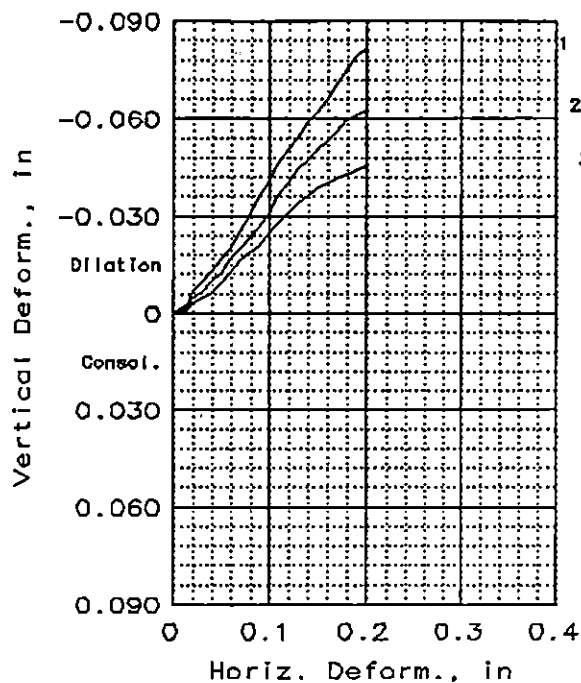
SAMPLE LOCATION: S-87

PROJ. NO.: 94S1749-01

DATE: 09-05-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	7.0	7.0	7.0
	DRY DENSITY, pcf	111.2	111.2	111.2
	SATURATION, %	38.1	38.1	38.1
	VOID RATIO	0.487	0.487	0.487
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	7.0	7.0	7.0
	DRY DENSITY, pcf	111.2	111.2	111.2
	SATURATION, %	38.1	38.1	38.1
	VOID RATIO	0.487	0.487	0.487
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		500	635	747
RESIDUAL SHEAR, psf		439	579	687
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA

SAMPLE TYPE: ALT. SELECT FILL
DESCRIPTION: S-88, SELECT FILL

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS: ASTM D-3080

DIRECT SHEAR STRENGTH TEST

DRY CONDITION

SPECIFIC GRAVITY ASSUMED

FIG. NO. S-88

CLIENT: TOWN OF HUNTINGTON

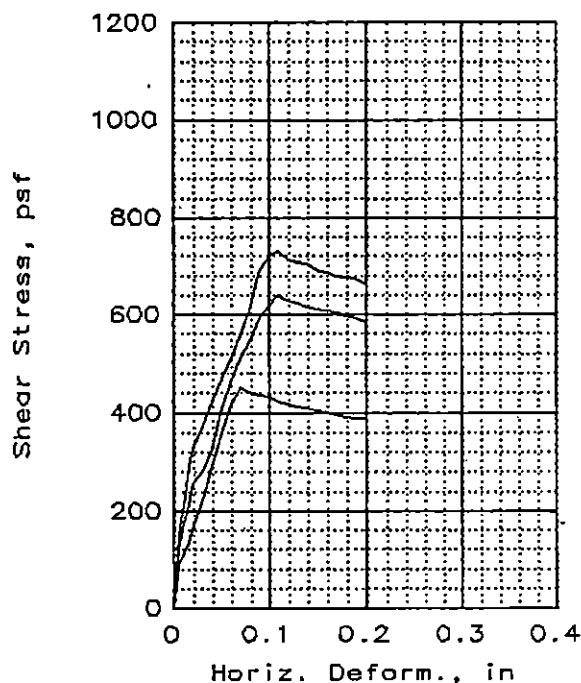
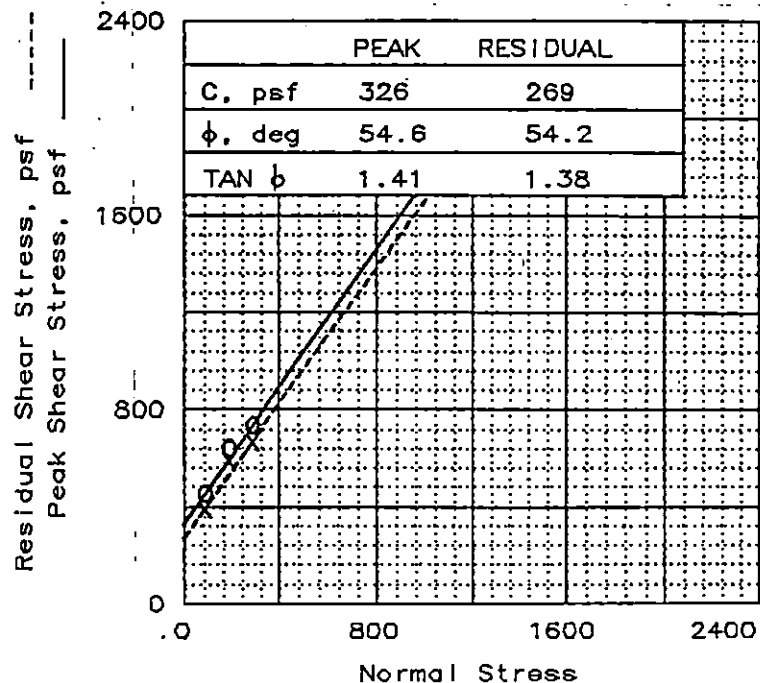
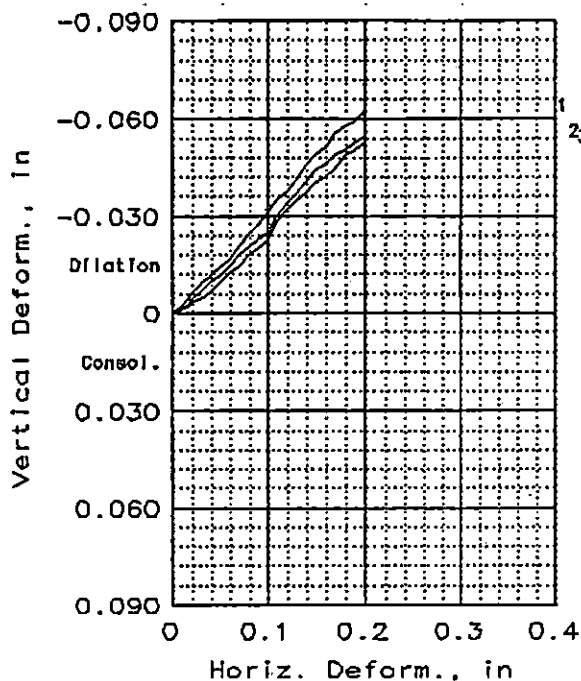
PROJECT: EAST NORTHPORT LANDFILL

SAMPLE LOCATION: S-88

PROJ. NO.: 94S1749-01 DATE: 09-05-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	6.7	6.7	6.7
	DRY DENSITY, pcf	105.1	105.1	105.1
	SATURATION, %	30.9	30.9	30.9
	VOID RATIO	0.574	0.574	0.574
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	6.7	6.7	6.7
	DRY DENSITY, pcf	105.1	105.1	105.1
	SATURATION, %	30.9	30.9	30.9
	VOID RATIO	0.574	0.574	0.574
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		450	639	732
RESIDUAL SHEAR, psf		387	585	664
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA

SAMPLE TYPE: ALT. SELECT FILL
DESCRIPTION: S-89, SELECT FILL

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS: ASTM D-3080

DIRECT SHEAR STRENGTH TEST

DRY CONDITION

SPECIFIC GRAVITY ASSUMED

FIG. NO. S-89

CLIENT: TOWN OF HUNTINGTON

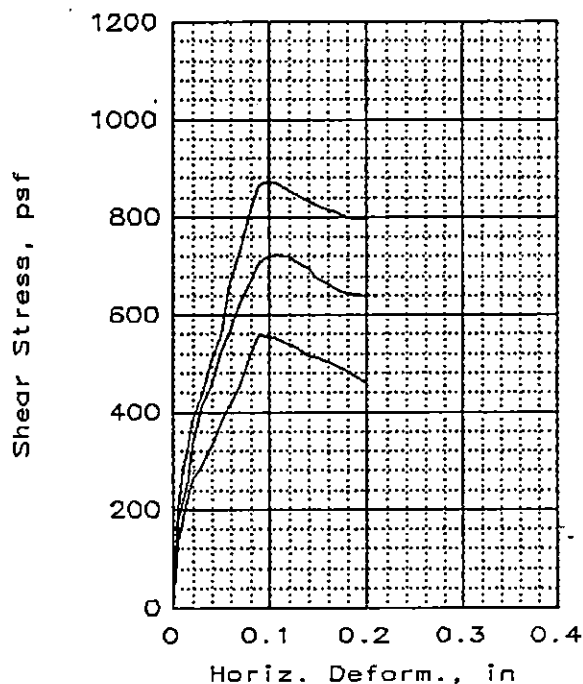
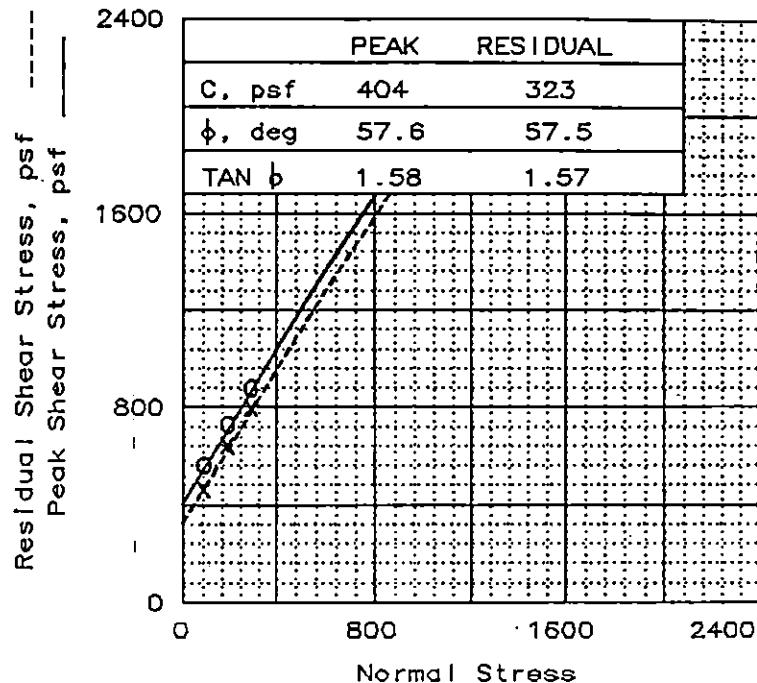
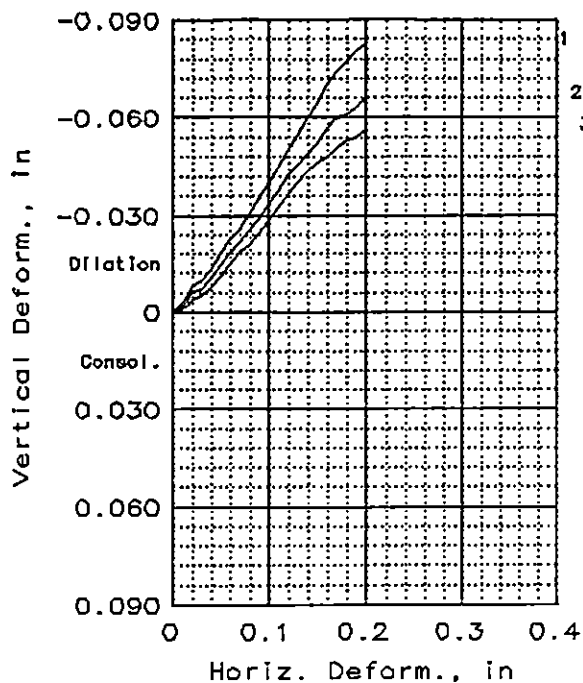
PROJECT: EAST NORTHPORT LANDFILL

SAMPLE LOCATION: S-89

PROJ. NO.: 94S1749-01 DATE: 09-06-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	6.6	6.6	6.6
	DRY DENSITY, pcf	112.3	112.3	112.3
	SATURATION, %	37.0	37.0	37.0
	VOID RATIO	0.473	0.473	0.473
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	6.6	6.6	6.6
	DRY DENSITY, pcf	112.3	112.3	112.3
	SATURATION, %	37.0	37.0	37.0
	VOID RATIO	0.473	0.473	0.473
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		558	725	873
RESIDUAL SHEAR, psf		459	639	797
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA
 SAMPLE TYPE: ALT. SELECT FILL
 DESCRIPTION: S-90, SELECT FILL
 LL= PL= PI=
 SPECIFIC GRAVITY= 2.65
 REMARKS: ASTM D-3080
 DIRECT SHEAR STRENGTH TEST
 DRY CONDITION
 SPECIFIC GRAVITY ASSUMED
 FIG. NO. S-90

CLIENT: TOWN OF HUNTINGTON

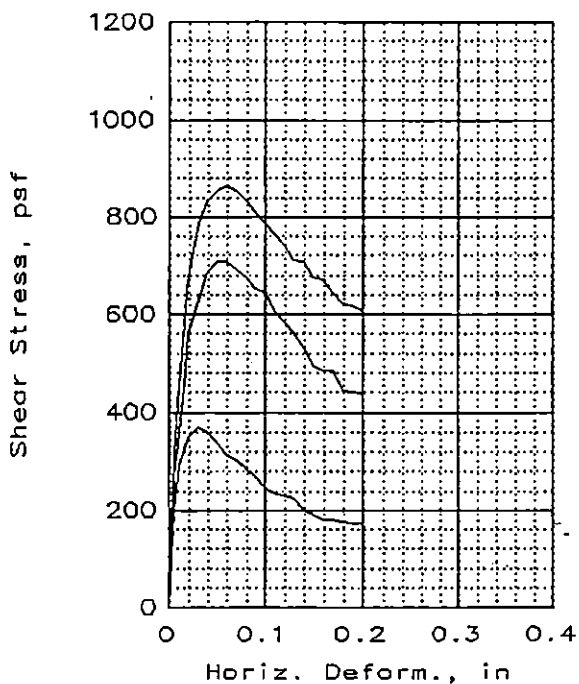
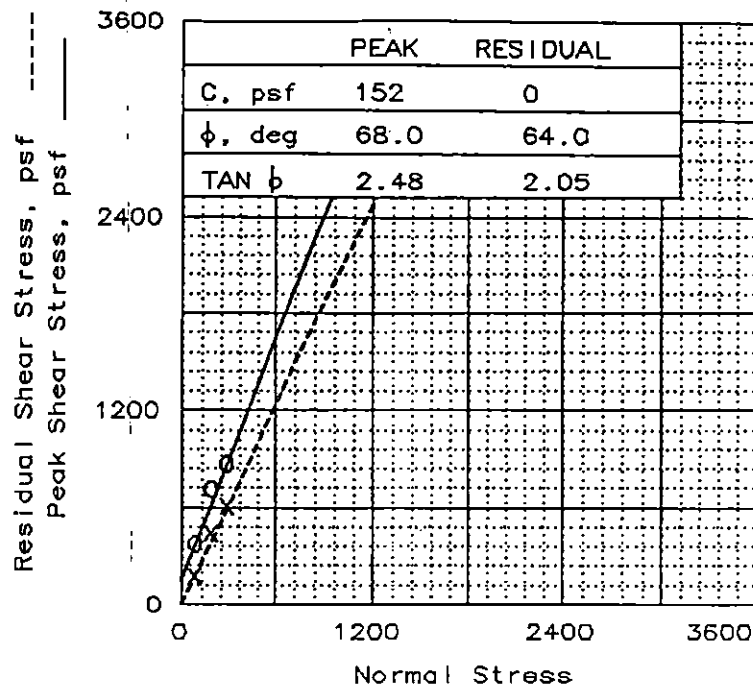
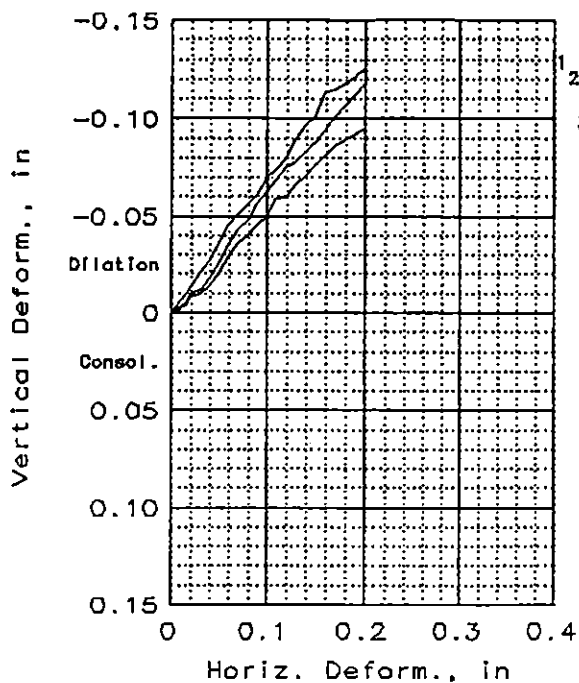
PROJECT: EAST NORTHPORT LANDFILL

SAMPLE LOCATION: S-90

PROJ. NO.: 94S1749-01 DATE: 09-06-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	7.4	7.4	7.4
	DRY DENSITY, pcf	111.5	111.5	111.5
	SATURATION, %	40.5	40.5	40.5
	VOID RATIO	0.484	0.484	0.484
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	7.4	7.4	7.4
	DRY DENSITY, pcf	111.5	111.5	111.5
	SATURATION, %	40.5	40.5	40.5
	VOID RATIO	0.484	0.484	0.484
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		369	709	864
RESIDUAL SHEAR, psf		173	439	608
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA
 SAMPLE TYPE: ALT. SELECT FILL
 DESCRIPTION: S-91, SELECT FILL

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS: ASTM D-3080

DIRECT SHEAR STRENGTH TEST
 DRY CONDITION

SPECIFIC GRAVITY ASSUMED

FIG. NO. 91

CLIENT: TOWN OF HUNTINGTON

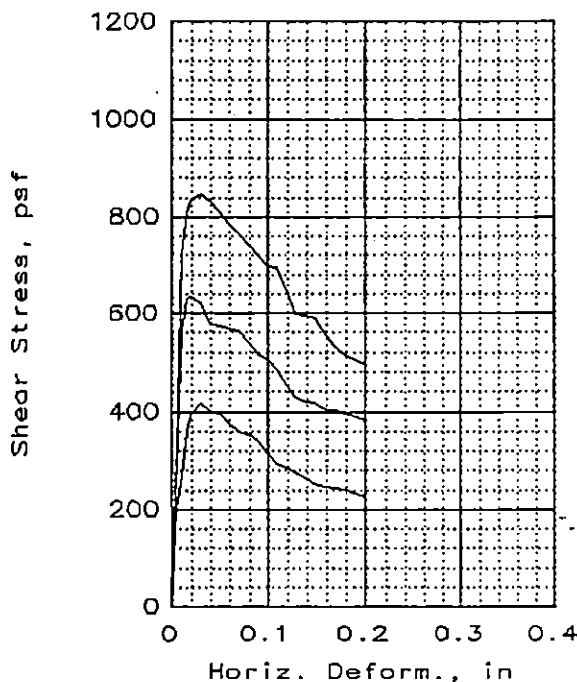
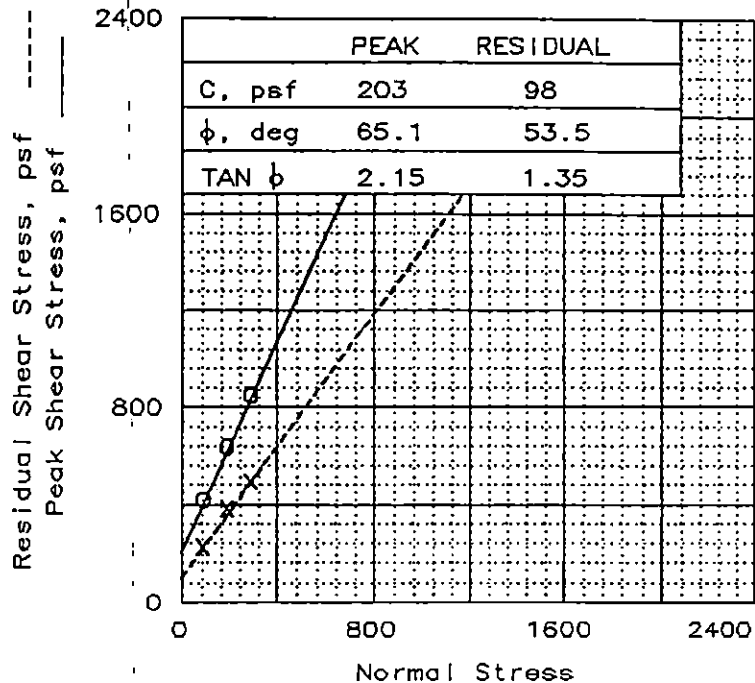
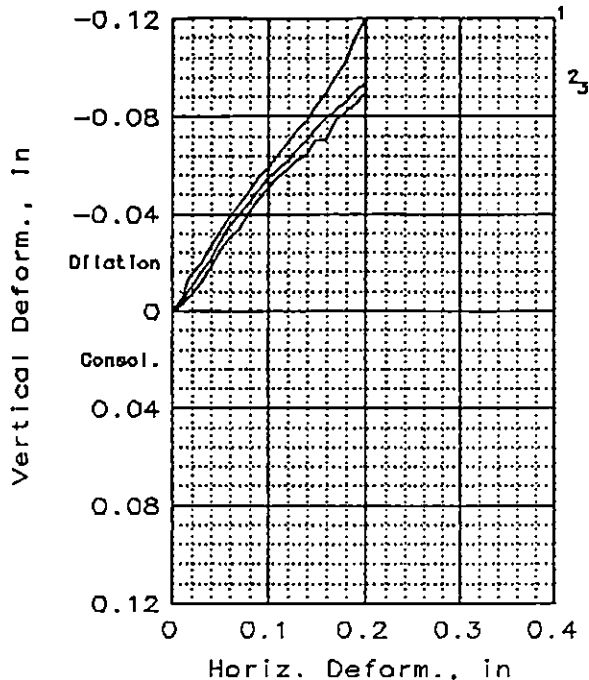
PROJECT: EAST NORTHPORT LANDFILL

SAMPLE LOCATION: S-91

PROJ. NO.: 94S1749-01 DATE: 09-20-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	6.7	6.7	6.7
	DRY DENSITY, pcf	111.8	111.8	111.8
	SATURATION, %	37.0	37.0	37.0
	VOID RATIO	0.480	0.480	0.480
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	6.7	6.7	6.7
	DRY DENSITY, pcf	111.8	111.8	111.8
	SATURATION, %	37.0	37.0	37.0
	VOID RATIO	0.480	0.480	0.480
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		416	635	846
RESIDUAL SHEAR, psf		225	383	495
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA

SAMPLE TYPE: ALT. SELECT FILL
DESCRIPTION: S-92, SELECT FILL

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS: ASTM D-3080

DIRECT SHEAR STRENGTH TEST

DRY CONDITION

SPECIFIC GRAVITY ASSUMED

FIG. NO. 92

CLIENT: TOWN OF HUNTINGTON

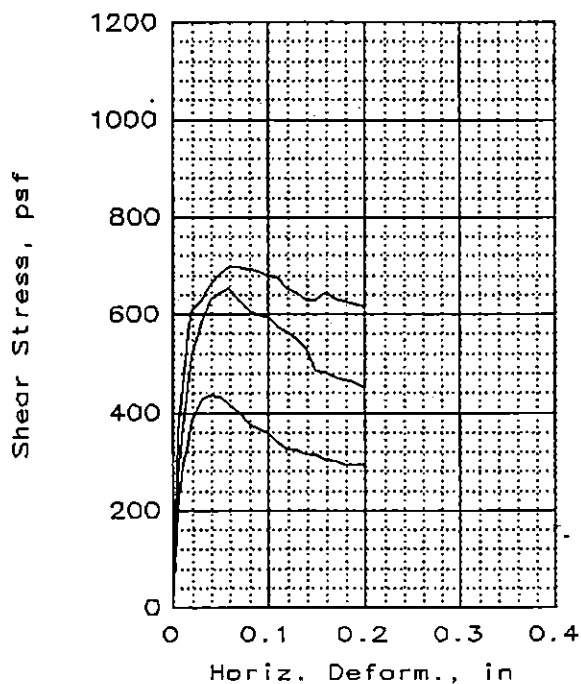
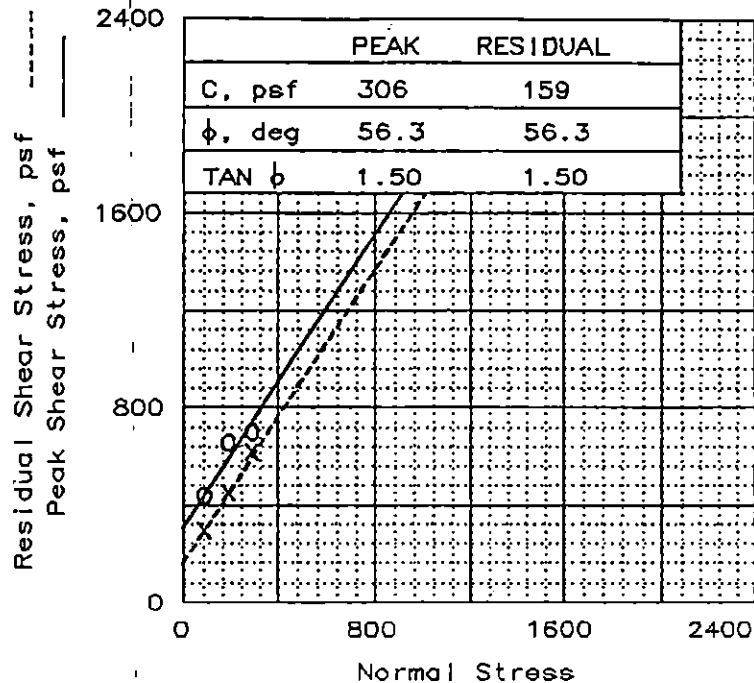
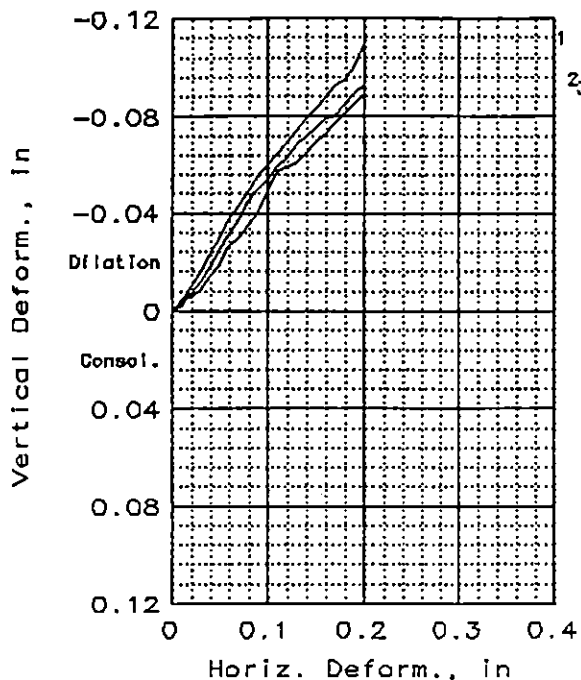
PROJECT: EAST NORTHPORT LANDFILL

SAMPLE LOCATION: S-92

PROJ. NO.: 94S1749-01 DATE: 09-20-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	7.1	7.1	7.1
	DRY DENSITY, pcf	111.6	111.6	111.6
	SATURATION, %	39.0	39.0	39.0
	VOID RATIO	0.483	0.483	0.483
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	7.1	7.1	7.1
	DRY DENSITY, pcf	111.6	111.6	111.6
	SATURATION, %	39.0	39.0	39.0
	VOID RATIO	0.483	0.483	0.483
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		437	653	698
RESIDUAL SHEAR, psf		293	452	617
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA
 SAMPLE TYPE: ALT. SELECT FILL
 DESCRIPTION: S-93, SELECT FILL

LL= PL= PI=
 SPECIFIC GRAVITY= 2.65
 REMARKS: ASTM D-3080

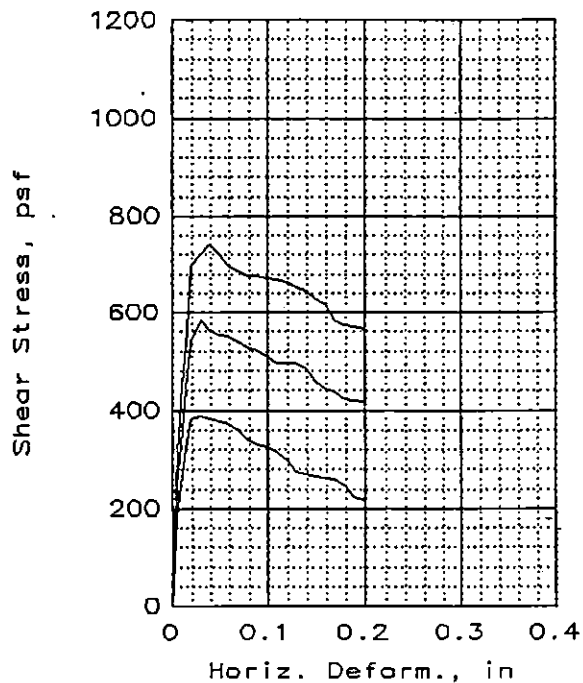
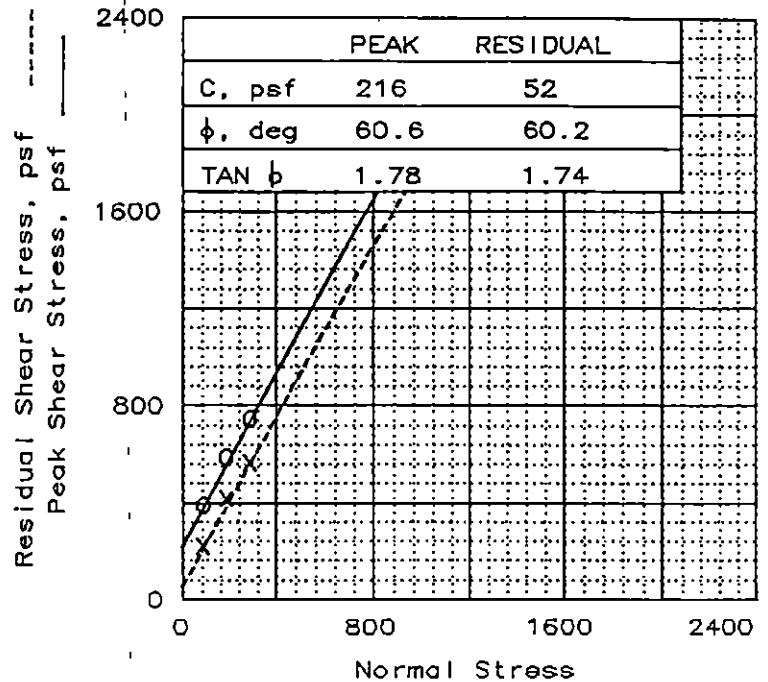
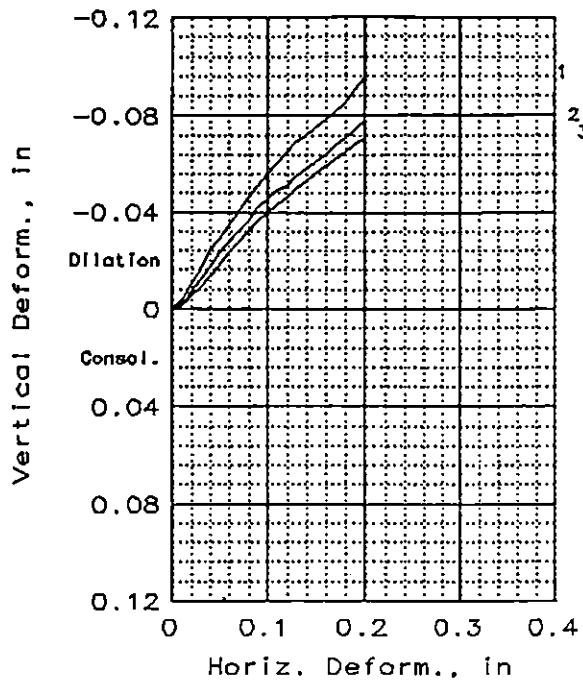
DIRECT SHEAR STRENGTH TEST
 DRY CONDITION
 SPECIFIC GRAVITY ASSUMED
 FIG. NO. 93

CLIENT: TOWN OF HUNTINGTON
 PROJECT: EAST NORTHPORT LANDFILL
 SAMPLE LOCATION: S-93

PROJ. NO.: 14S1749-01 DATE: 09-21-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	6.5	6.5	242.6
	DRY DENSITY, pcf	110.6	110.6	34.4
	SATURATION, %	34.8	34.8	168.6
	VOID RATIO	0.496	0.496	3.813
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	6.5	6.5	6.5
	DRY DENSITY, pcf	110.6	110.6	34.4
	SATURATION, %	34.8	34.8	4.5
	VOID RATIO	0.496	0.496	3.813
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		387	585	743
RESIDUAL SHEAR, psf		218	416	567
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA

SAMPLE TYPE: ALT. SELECT FILL
DESCRIPTION: S-94, SELECT FILL

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS: ASTM D-3080

DIRECT SHEAR STRENGTH TEST
DRY CONDITION

SPECIFIC GRAVITY ASSUMED

FIG. NO. 94

CLIENT: TOWN OF HUNTINGTON

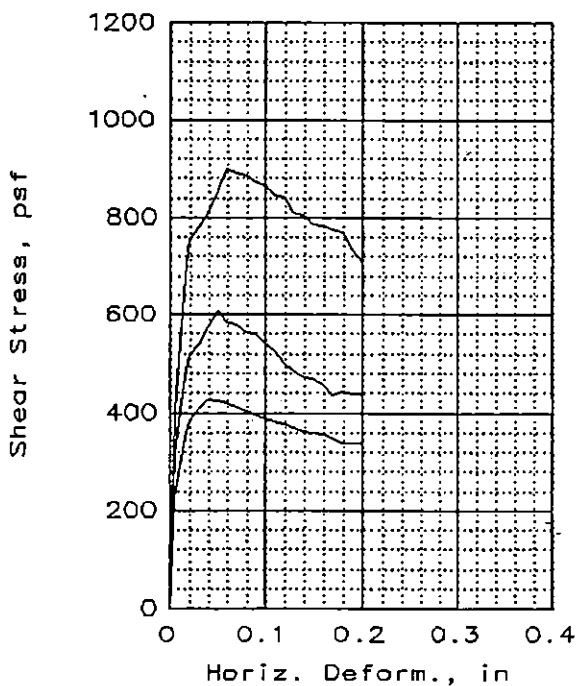
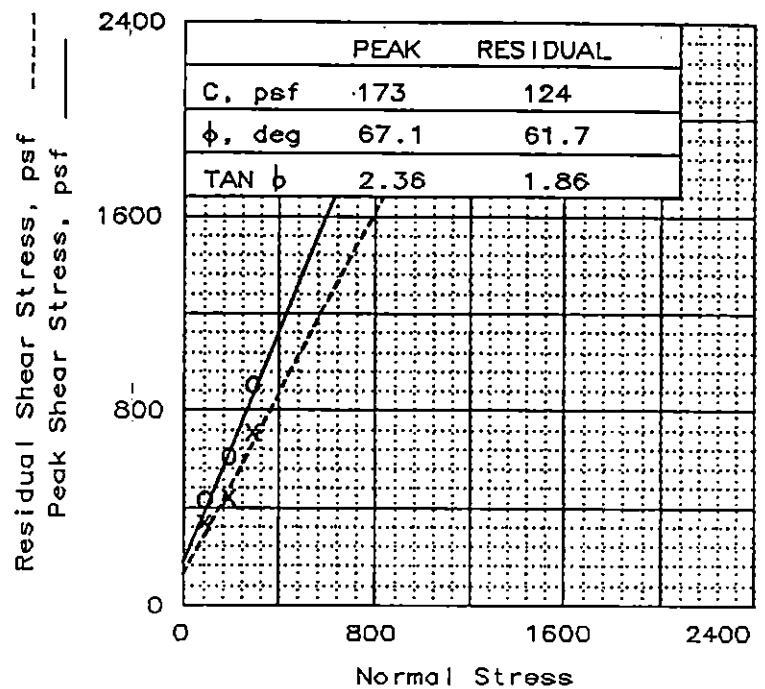
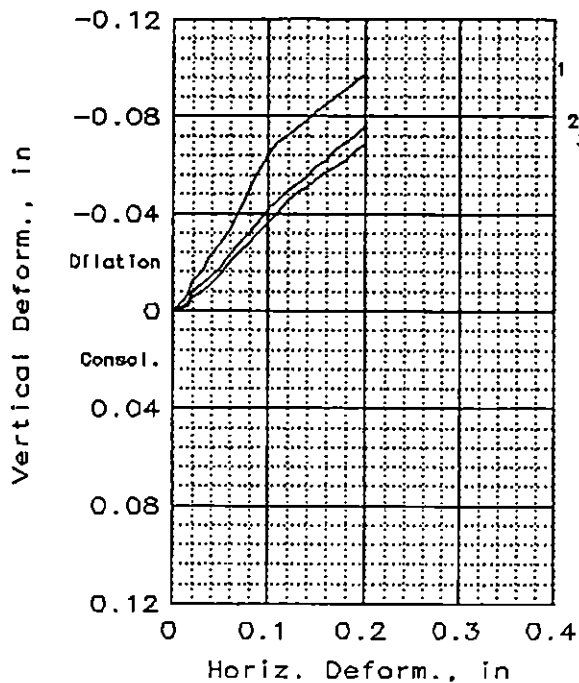
PROJECT: EAST NORTHPORT LANDFILL

SAMPLE LOCATION: S-94

PROJ. NO.: 94S1749-01 DATE: 09-21-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	7.6	7.6	7.6
	DRY DENSITY, pcf	109.2	109.2	109.2
	SATURATION, %	39.1	39.1	39.1
	VOID RATIO	0.515	0.515	0.515
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	7.6	7.6	7.6
	DRY DENSITY, pcf	109.2	109.2	109.2
	SATURATION, %	39.1	39.1	39.1
	VOID RATIO	0.515	0.515	0.515
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		428	608	900
RESIDUAL SHEAR, psf		338	439	709
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA

SAMPLE TYPE: ALT. SELECT FILL
DESCRIPTION: S-95, SELECT FILL

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS: ASTM D-3080

DIRECT SHEAR STRENGTH TEST
DRY CONDITION

SPECIFIC GRAVITY ASSUMED

FIG. NO. 95

CLIENT: TOWN OF HUNTINGTON

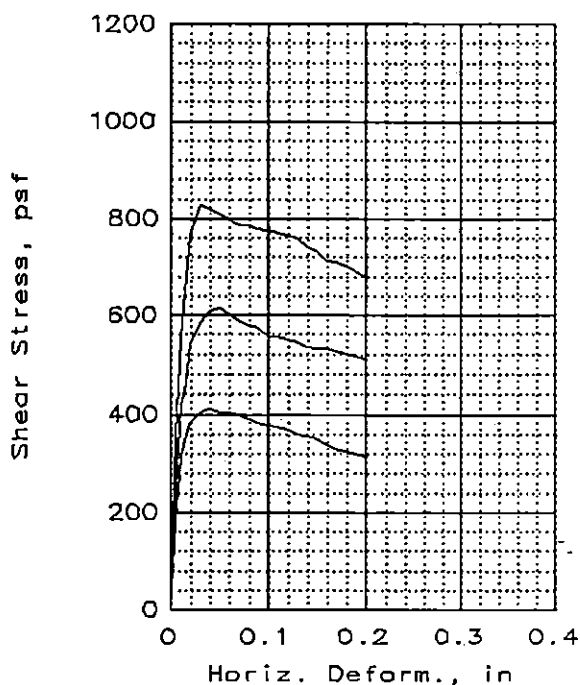
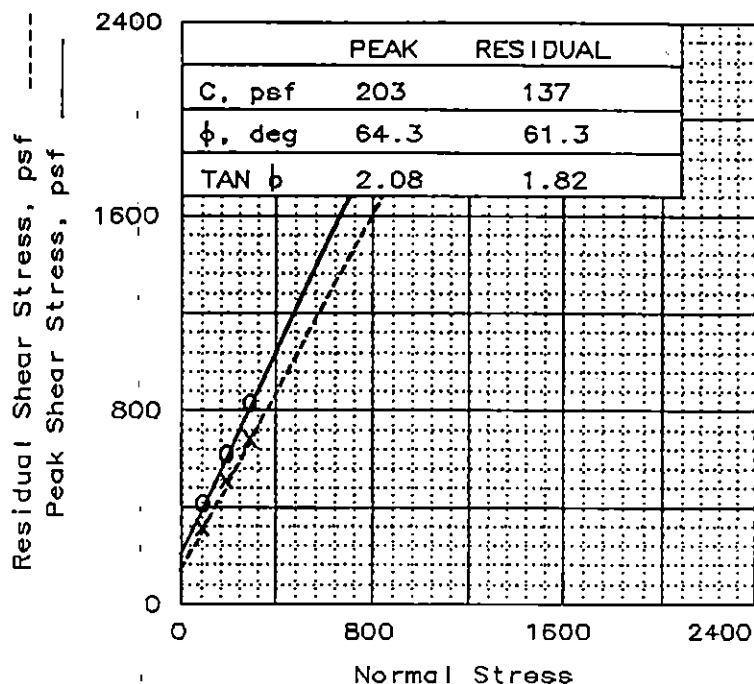
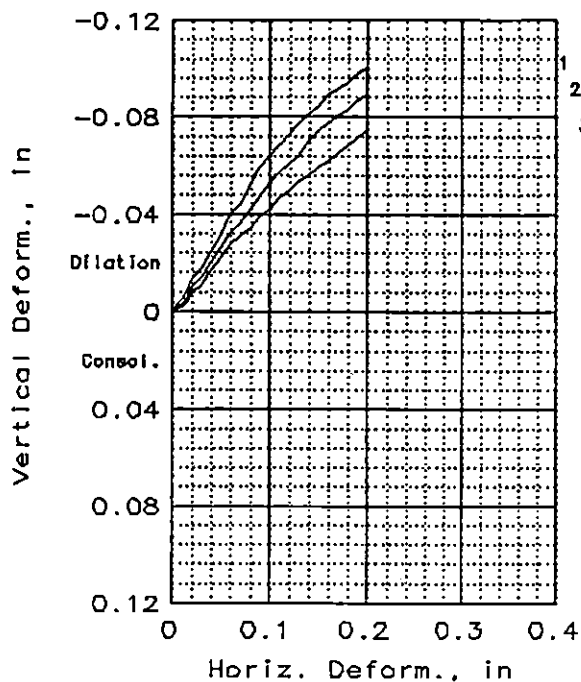
PROJECT: EAST NORTHPORT LANDFILL

SAMPLE LOCATION: S-95

PROJ. NO.: 94S1749-01 DATE: 09-21-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	7.7	7.7	7.7
	DRY DENSITY, pcf	107.8	107.8	107.8
	SATURATION, %	38.2	38.2	38.2
	VOID RATIO	0.535	0.535	0.535
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	7.7	7.7	7.7
	DRY DENSITY, pcf	107.8	107.8	107.8
	SATURATION, %	38.2	38.2	38.2
	VOID RATIO	0.535	0.535	0.535
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		412	617	828
RESIDUAL SHEAR, psf		315	511	680
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA

SAMPLE TYPE: ALT. SELECT FILL
DESCRIPTION: S-96, SELECT FILL

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS: ASTM D-3080

DIRECT SHEAR STRENGTH TEST
DRY CONDITION

SPECIFIC GRAVITY ASSUMED

FIG. NO. 96

CLIENT: TOWN OF HUNTINGTON

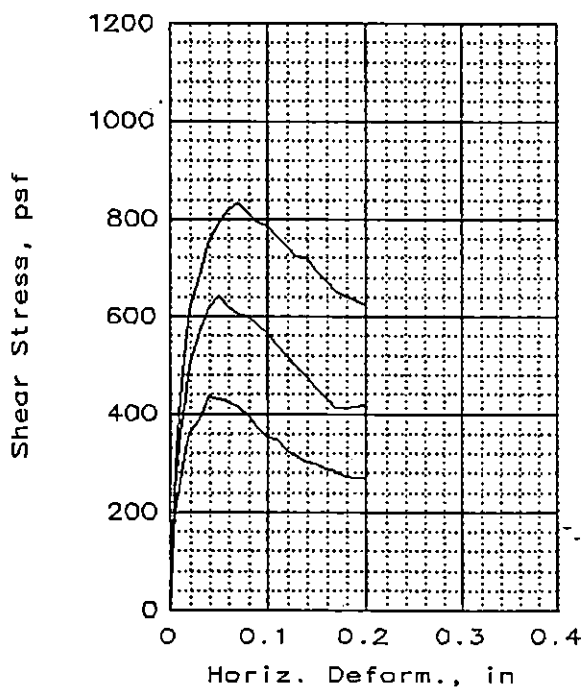
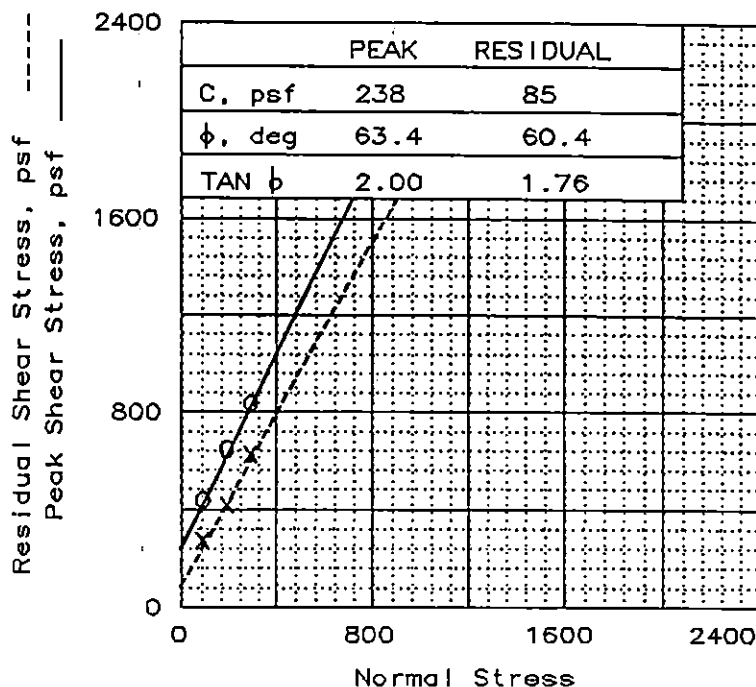
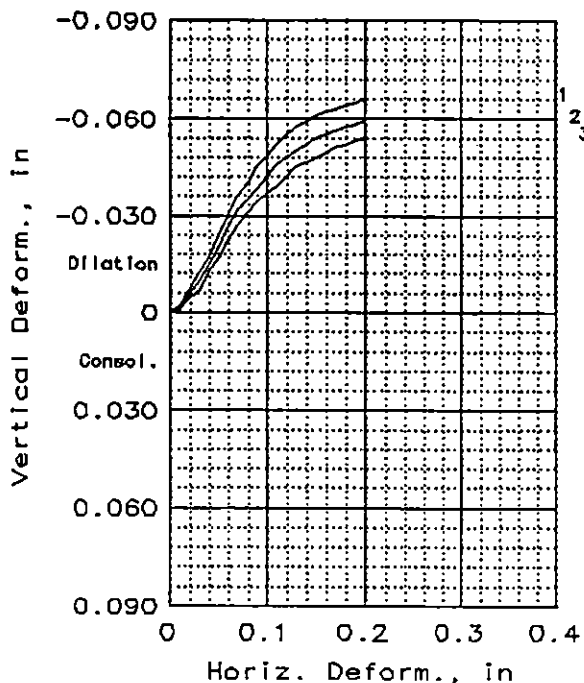
PROJECT: EAST NORTHPORT LANDFILL

SAMPLE LOCATION: S-96

PROJ. NO.: 94S1749-01 DATE: 09-21-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	6.5	6.5	6.5
	DRY DENSITY, pcf	108.1	136.7	108.1
	SATURATION, %	32.5	81.9	32.5
	VOID RATIO	0.531	0.210	0.531
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	6.5	34.7	6.5
	DRY DENSITY, pcf	108.1	136.7	108.1
	SATURATION, %	32.5	437.4	32.5
	VOID RATIO	0.531	0.210	0.531
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		435	643	834
RESIDUAL SHEAR, psf		272	416	624
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA

SAMPLE TYPE: ALT. SELECT FILL
DESCRIPTION: CASHIN ASS.EAST

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS: ASTM D-3080

DIRECT SHEAR STRENGTH TEST
DRY CONDITION

SPECIFIC GRAVITY ASSUMED

FIG. NO. 1

CLIENT: TOWN OF HUNTINGTON

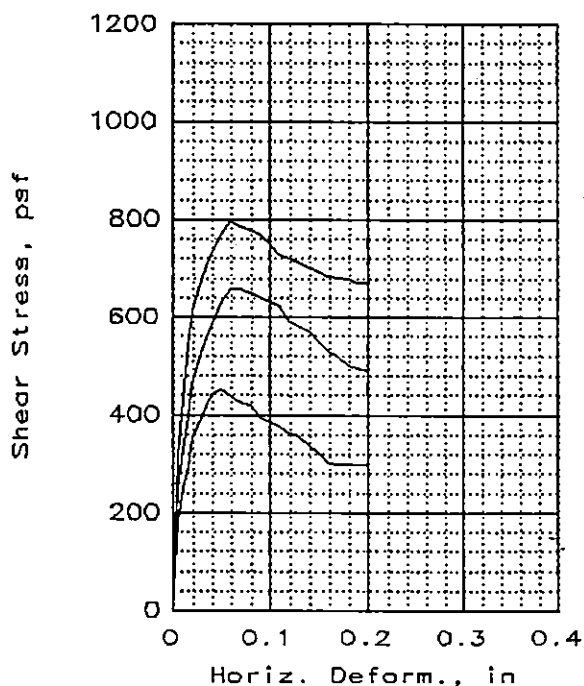
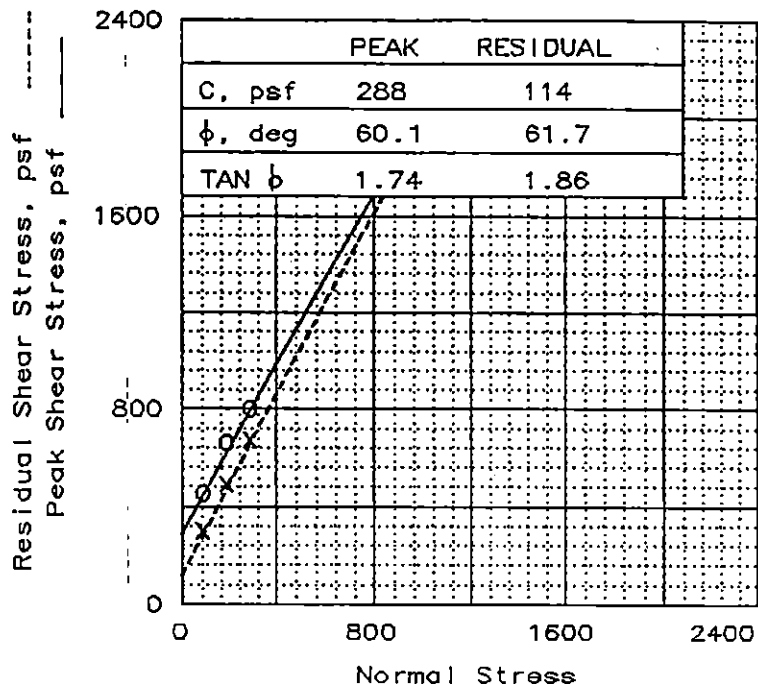
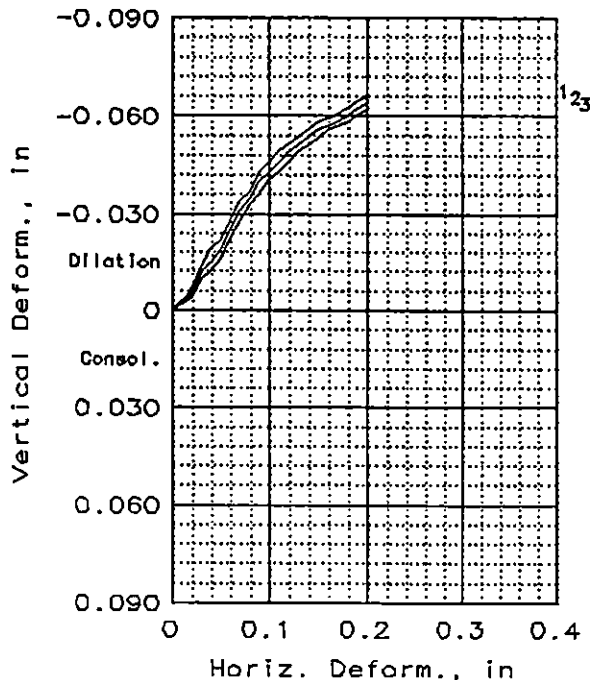
PROJECT: EAST NORTHPORT LANDFILL

SAMPLE LOCATION: S-97

PROJ. NO.: 94S1749-01 DATE: 10-12-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	7.0	7.0	7.0
	DRY DENSITY, pcf	110.6	110.6	110.6
	SATURATION, %	37.6	37.6	37.6
	VOID RATIO	0.496	0.496	0.496
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	7.0	7.0	7.0
	DRY DENSITY, pcf	110.6	110.6	110.6
	SATURATION, %	37.6	37.6	37.6
	VOID RATIO	0.496	0.496	0.496
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		450	658	798
RESIDUAL SHEAR, psf		299	489	670
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA

SAMPLE TYPE: ALT. SELECT FILL
DESCRIPTION: CASHIN ASS.EAST

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS: ASTM D-3080

DIRECT SHEAR STRENGTH TEST
DRY CONDITION

SPECIFIC GRAVITY ASSUMED

FIG. NO. 1

CLIENT: TOWN OF HUNTINGTON

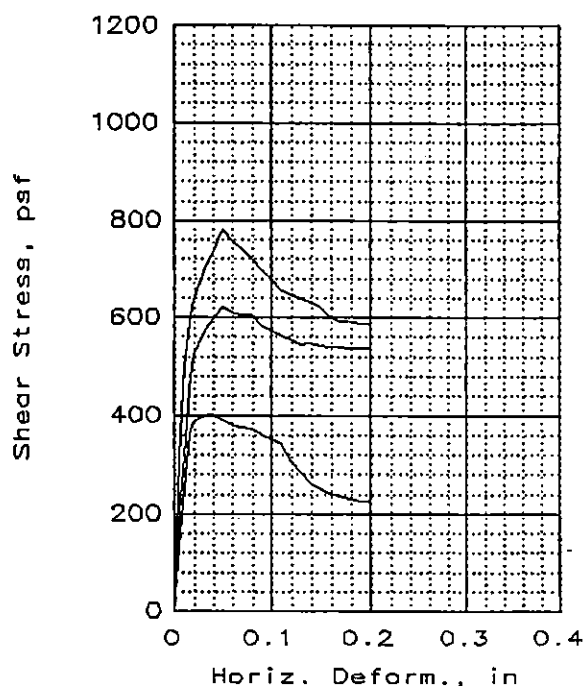
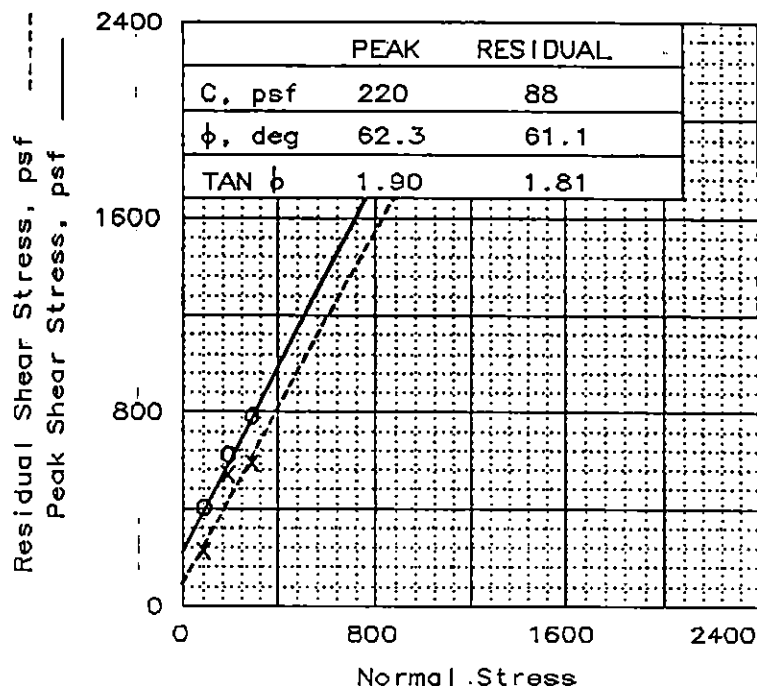
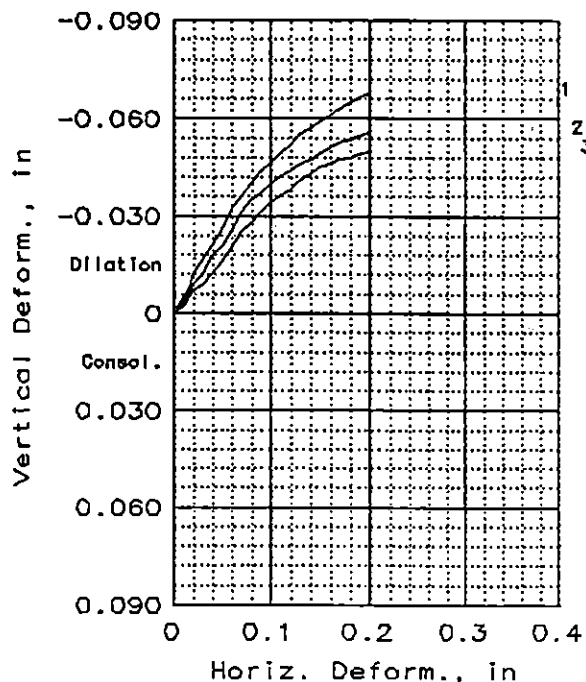
PROJECT: EAST NORTHPORT LANDFILL

SAMPLE LOCATION: S-98

PROJ. NO.: 94S1749-01 DATE: 10-12-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	6.8	6.8	6.8
	DRY DENSITY, pcf	109.5	109.5	109.5
	SATURATION, %	35.3	35.3	35.3
	VOID RATIO	0.511	0.511	0.511
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	6.8	6.8	6.8
	DRY DENSITY, pcf	109.5	109.5	109.5
	SATURATION, %	35.3	35.3	35.3
	VOID RATIO	0.511	0.511	0.511
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		400	620	781
RESIDUAL SHEAR, psf		225	538	587
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA

SAMPLE TYPE: ALT. SELECT FILL
DESCRIPTION: CASHIN ASS.EAST

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS: ASTM D-3080

DIRECT SHEAR STRENGTH TEST
DRY CONDITION

SPECIFIC GRAVITY ASSUMED

FIG. NO. 1

CLIENT: TOWN OF HUNTINGTON

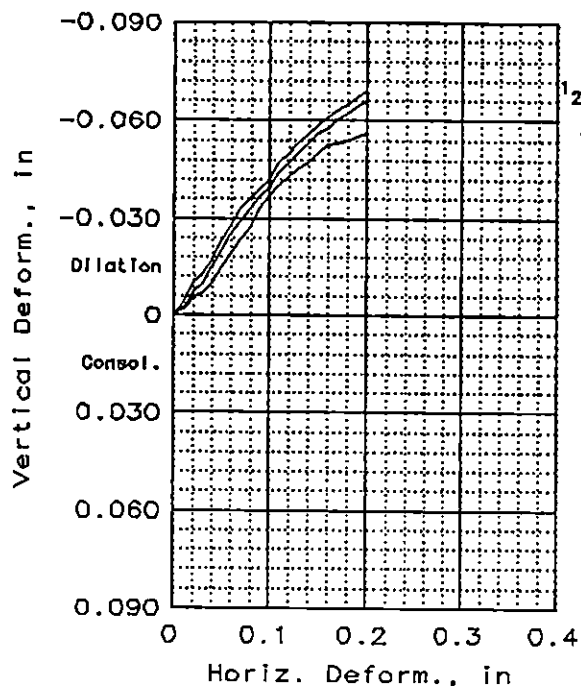
PROJECT: EAST NORTHPORT LANDFILL

SAMPLE LOCATION: S-99

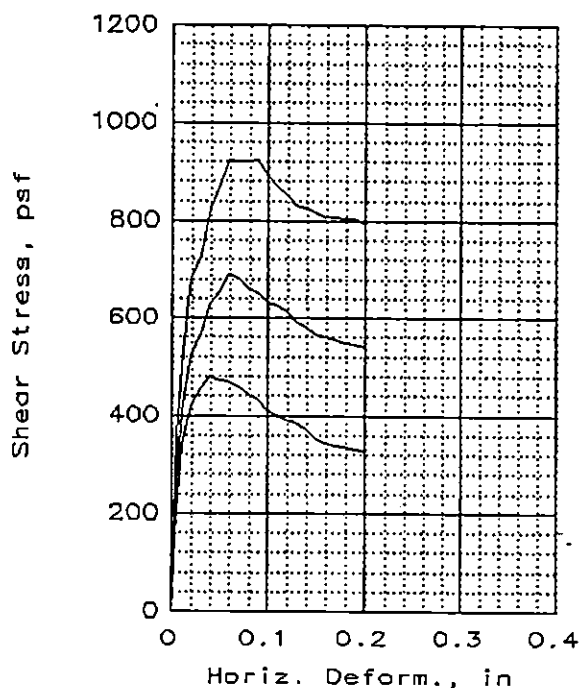
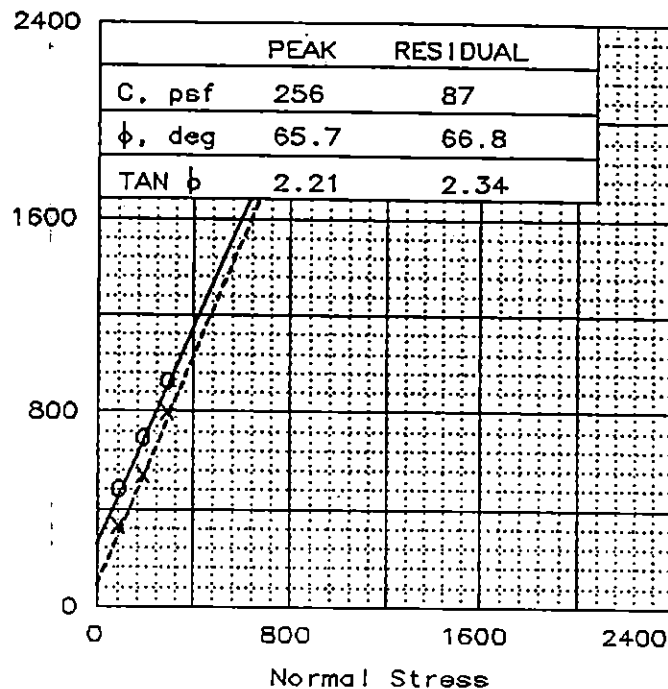
PROJ. NO.: 94S1749-01 DATE: 10-12-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.



Residual Shear Stress, psf
Peak Shear Stress, psf



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	7.6	7.6	7.6
	DRY DENSITY, pcf	110.6	110.6	110.6
	SATURATION, %	40.7	40.7	40.7
	VOID RATIO	0.495	0.495	0.495
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	7.6	7.6	7.6
	DRY DENSITY, pcf	110.6	110.6	110.6
	SATURATION, %	40.7	40.7	40.7
	VOID RATIO	0.495	0.495	0.495
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		480	692	923
RESIDUAL SHEAR, psf		328	541	795
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA

SAMPLE TYPE: ALT. SELECT FILL
DESCRIPTION: CASHIN ASS.EAST

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS: ASTM D-3080

DIRECT SHEAR STRENGTH TEST
DRY CONDITION

SPECIFIC GRAVITY ASSUMED

FIG. NO. 1

CLIENT: TOWN OF HUNTINGTON

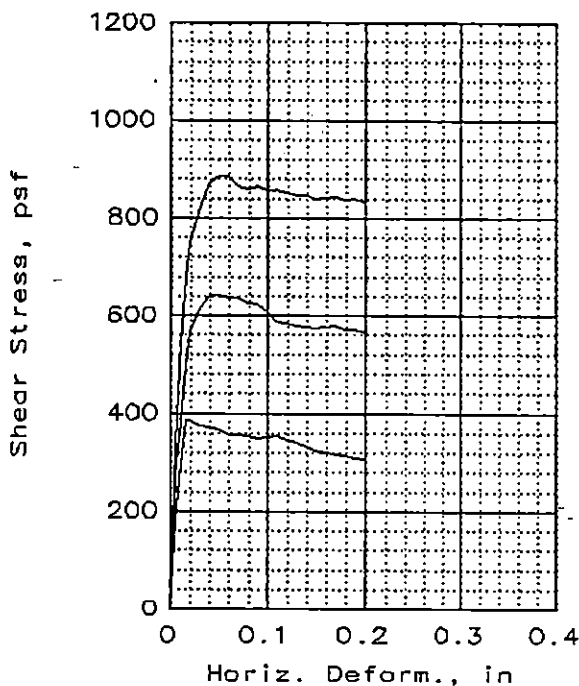
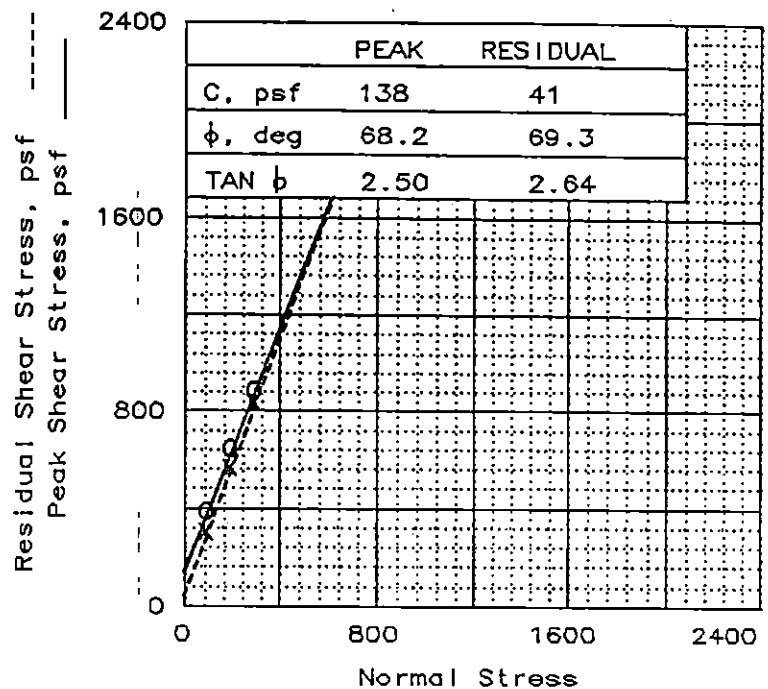
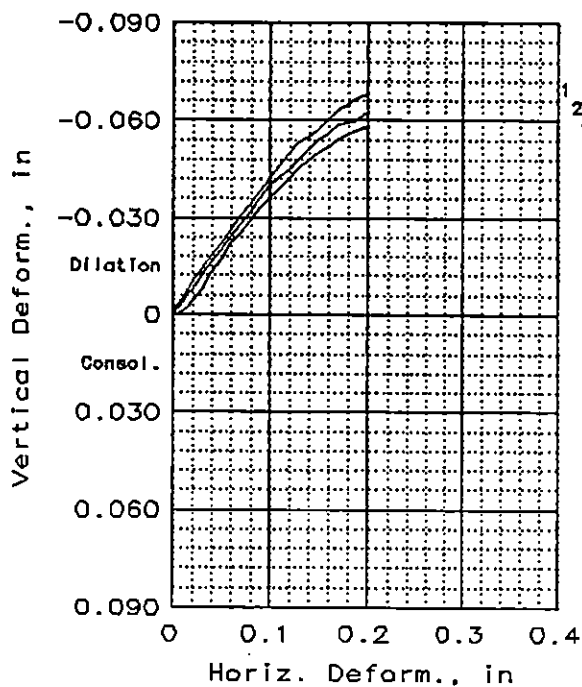
PROJECT: EAST NORTHPORT LANDFILL

SAMPLE LOCATION: S-100

PROJ. NO.: 94S1749-01 DATE: 10-13-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	7.6	7.6	7.6
	DRY DENSITY, pcf	107.0	107.0	107.0
	SATURATION, %	36.9	36.9	36.9
	VOID RATIO	0.546	0.546	0.546
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	7.6	7.6	7.6
	DRY DENSITY, pcf	107.0	107.0	107.0
	SATURATION, %	36.9	36.9	36.9
	VOID RATIO	0.546	0.546	0.546
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		386	643	887
RESIDUAL SHEAR, psf		306	568	834
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA

SAMPLE TYPE: ALT. SELECT FILL
DESCRIPTION: CASHIN ASS.EAST

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS: ASTM D-3080

DIRECT SHEAR STRENGTH TEST

DRY CONDITION

SPECIFIC GRAVITY ASSUMED

FIG. NO. 1

CLIENT: TOWN OF HUNTINGTON

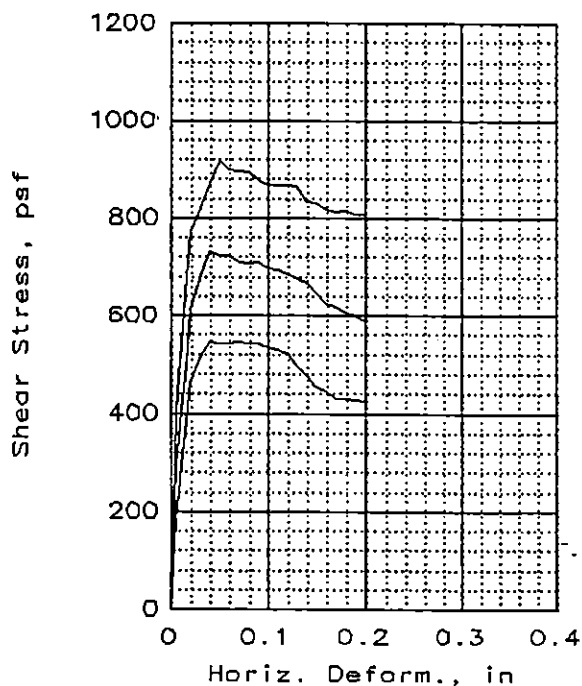
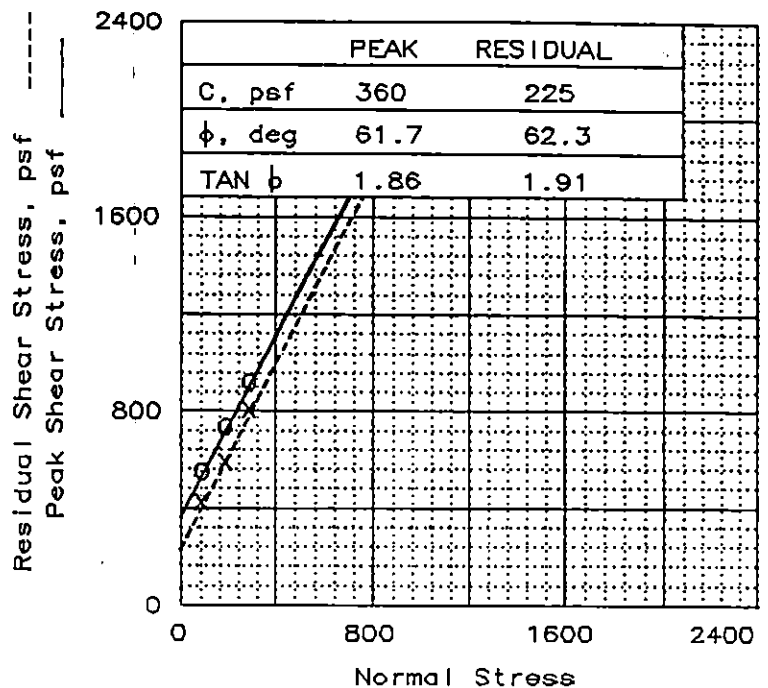
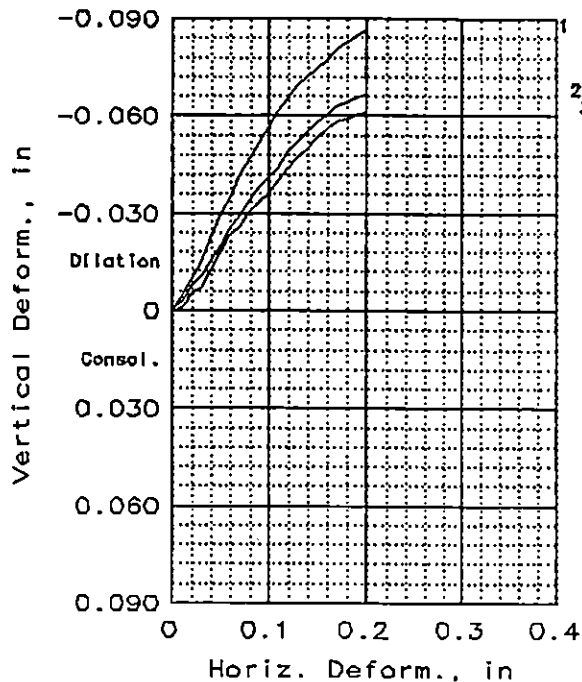
PROJECT: EAST NORTHPORT LANDFILL

SAMPLE LOCATION: S-101

PROJ. NO.: 94S1749-01 DATE: 10-13-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	7.6	7.6	7.6
	DRY DENSITY, pcf	108.5	108.5	108.5
	SATURATION, %	38.5	38.5	38.5
	VOID RATIO	0.524	0.524	0.524
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	7.6	7.6	7.6
	DRY DENSITY, pcf	108.5	108.5	108.5
	SATURATION, %	38.5	38.5	38.5
	VOID RATIO	0.524	0.524	0.524
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		547	732	919
RESIDUAL SHEAR, psf		426	587	807
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA
SAMPLE TYPE: ALT. SELECT FILL
DESCRIPTION: CASHIN ASS.EAST

LL= PL= PI=
SPECIFIC GRAVITY= 2.65
REMARKS: ASTM D-3080

DIRECT SHEAR STRENGTH TEST
DRY CONDITION
SPECIFIC GRAVITY ASSUMED
FIG. NO. 1

CLIENT: TOWN OF HUNTINGTON

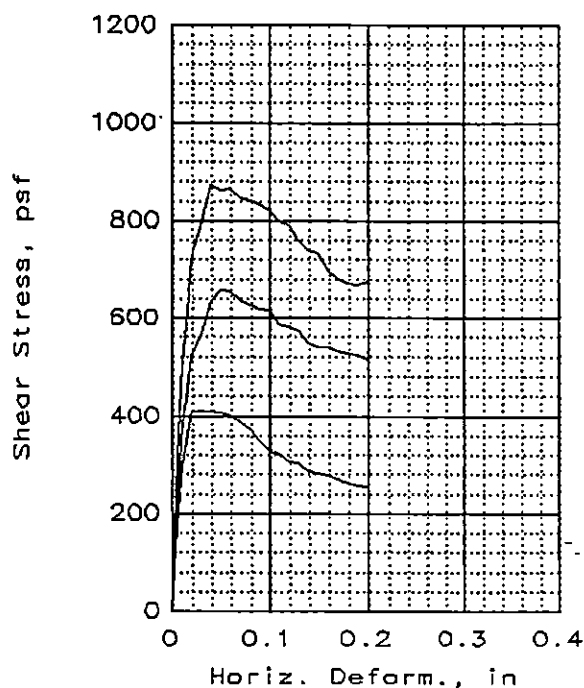
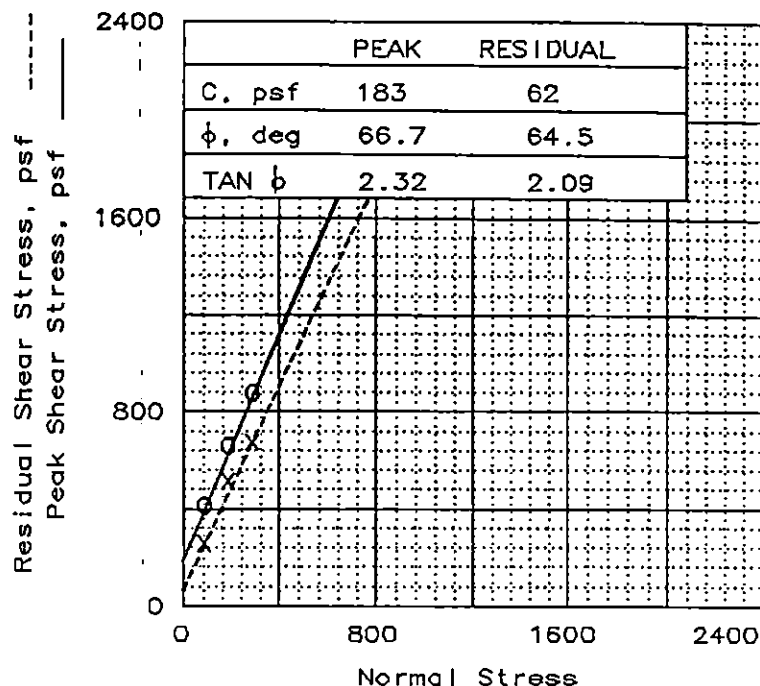
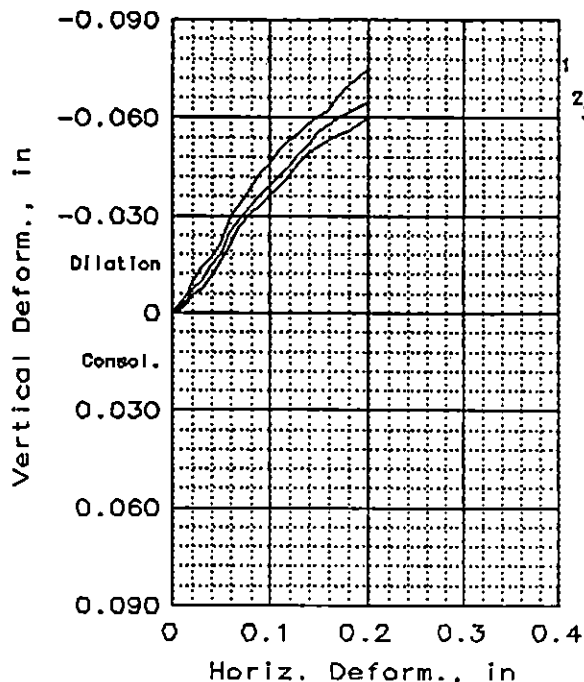
PROJECT: EAST NORTHPORT LANDFILL

SAMPLE LOCATION: S-102

PROJ. NO.: 94S1749-01 DATE: 10-20-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	7.0	7.0	7.0
	DRY DENSITY, pcf	109.6	109.6	109.6
	SATURATION, %	36.4	36.4	36.4
	VOID RATIO	0.509	0.509	0.509
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	7.0	7.0	7.0
	DRY DENSITY, pcf	109.6	109.6	109.6
	SATURATION, %	36.4	36.4	36.4
	VOID RATIO	0.509	0.509	0.509
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		410	657	874
RESIDUAL SHEAR, psf		254	514	673
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA

SAMPLE TYPE: ALT. SELECT FILL
DESCRIPTION: CASHIN ASS.EAST

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS: ASTM D-3080

DIRECT SHEAR STRENGTH TEST
DRY CONDITION

SPECIFIC GRAVITY ASSUMED

FIG. NO. 1

CLIENT: TOWN OF HUNTINGTON

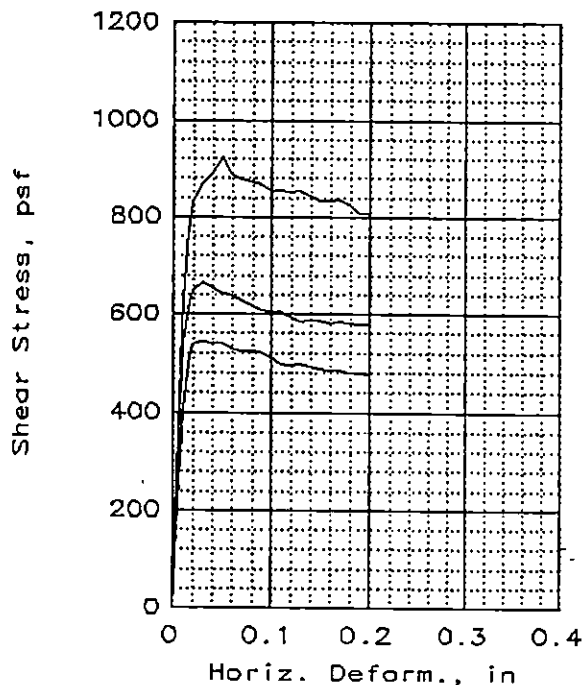
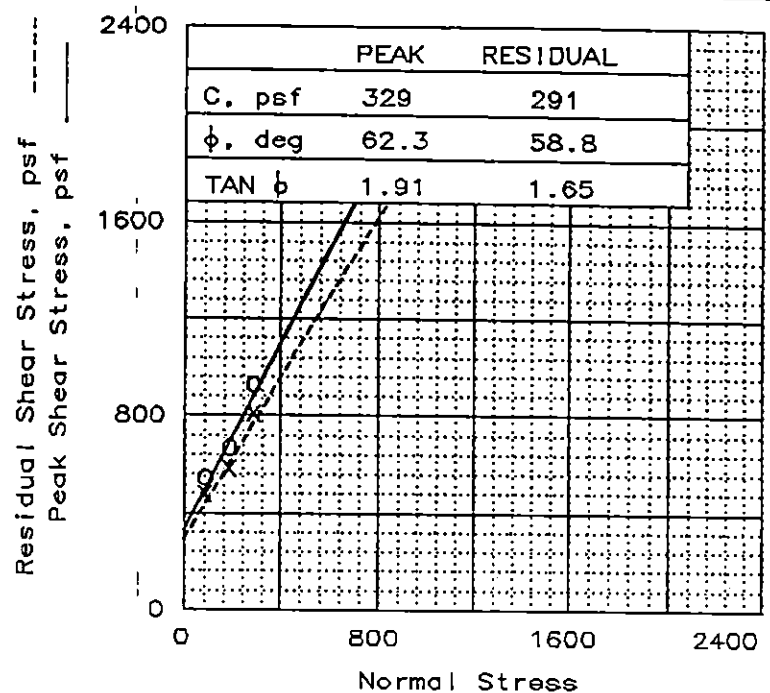
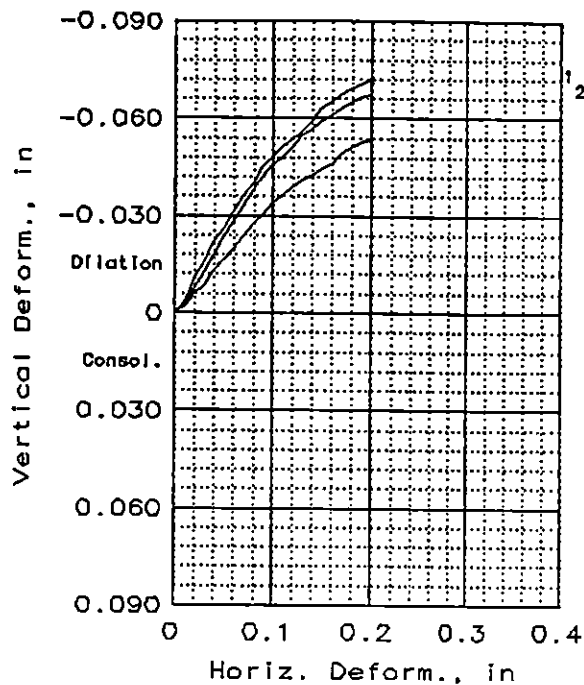
PROJECT: EAST NORTHPORT LANDFILL

SAMPLE LOCATION: S-103

PROJ. NO.: 94S1749-01 DATE: 10-20-95

DIRECT SHEAR TEST REPORT.

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	7.3	7.3	7.3
	DRY DENSITY, pcf	110.4	110.4	110.4
	SATURATION, %	38.8	38.8	38.8
	VOID RATIO	0.499	0.499	0.499
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	7.3	7.3	7.3
	DRY DENSITY, pcf	110.4	110.4	110.4
	SATURATION, %	38.8	38.8	38.8
	VOID RATIO	0.499	0.499	0.499
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		542	665	923
RESIDUAL SHEAR, psf		477	580	807
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA

SAMPLE TYPE: ALT. SELECT FILL
DESCRIPTION: CASHIN ASS.EAST

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS: ASTM D-3080

DIRECT SHEAR STRENGTH TEST
DRY CONDITION

SPECIFIC GRAVITY ASSUMED

FIG. NO. 1

CLIENT: TOWN OF HUNTINGTON

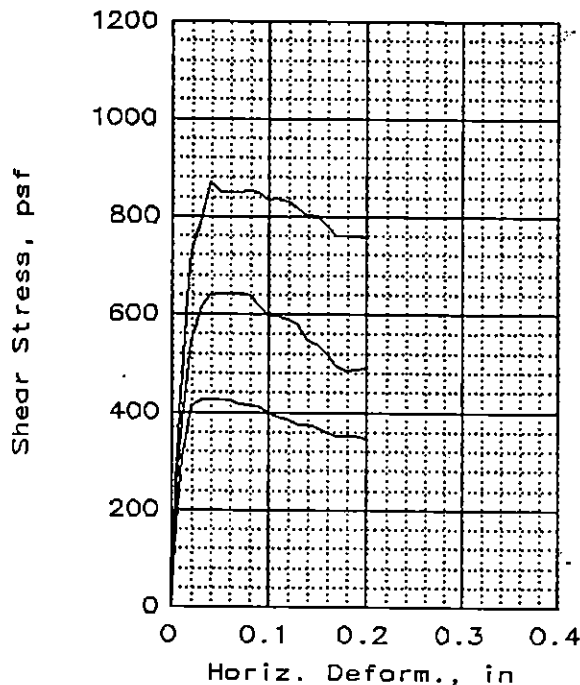
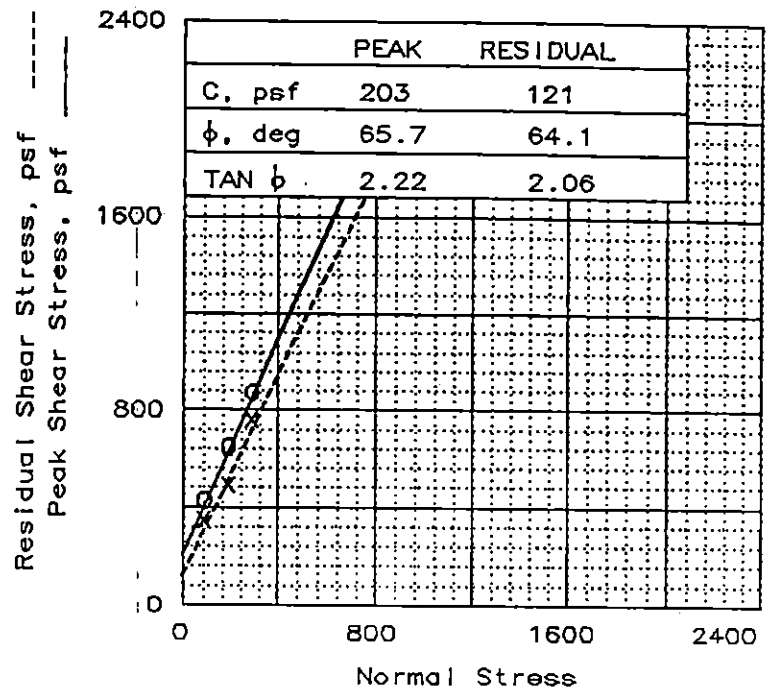
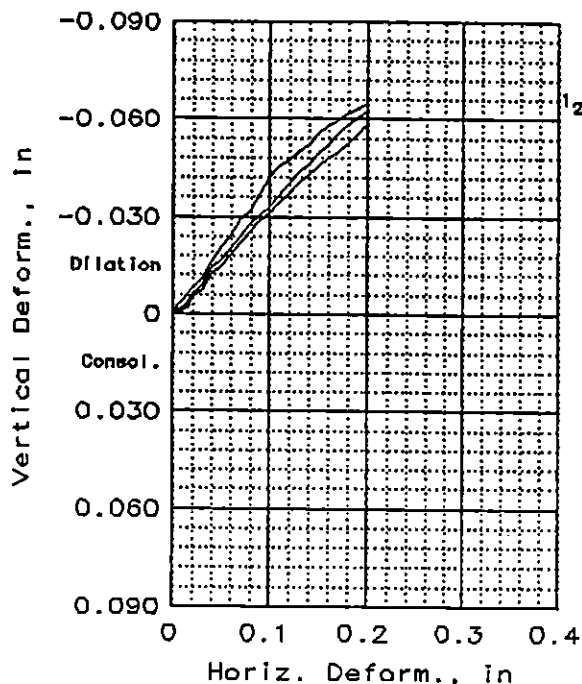
PROJECT: EAST NORTHPORT LANDFILL

SAMPLE LOCATION: S-104

PROJ. NO.: 94S1749-01 DATE: 10-20-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	7.5	7.5	7.5
	DRY DENSITY, pcf	109.2	109.2	109.2
	SATURATION, %	38.6	38.6	38.6
	VOID RATIO	0.515	0.515	0.515
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	7.5	7.5	7.5
	DRY DENSITY, pcf	109.2	109.2	109.2
	SATURATION, %	38.6	38.6	38.6
	VOID RATIO	0.515	0.515	0.515
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		426	643	869
RESIDUAL SHEAR, psf		347	489	758
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA
 SAMPLE TYPE: ALT. SELECT FILL
 DESCRIPTION: CASHIN ASS.EAST

LL= PL= PI=
 SPECIFIC GRAVITY= 2.65
 REMARKS: ASTM D-3080

DIRECT SHEAR STRENGTH TEST
 DRY CONDITION
 SPECIFIC GRAVITY ASSUMED

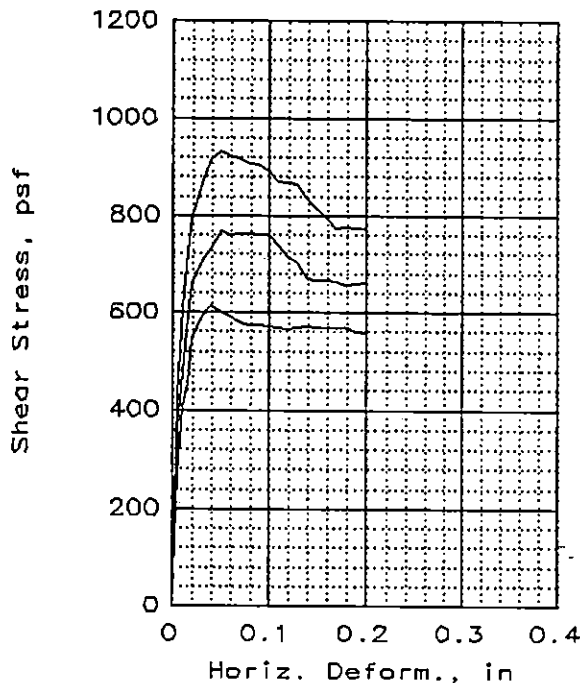
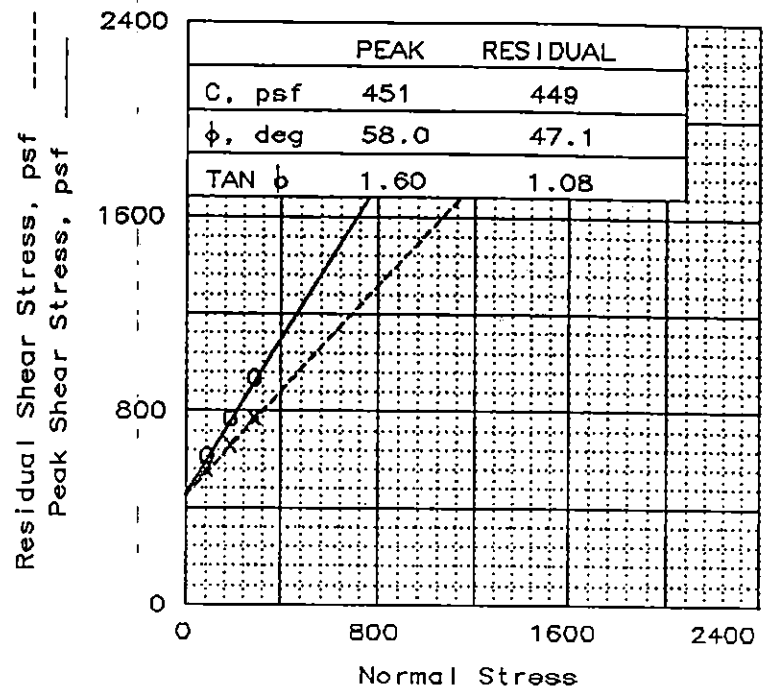
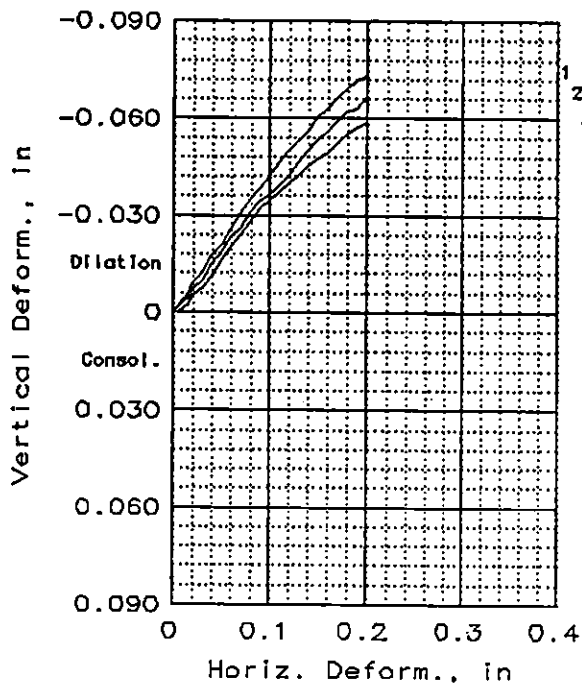
FIG. NO. 1

CLIENT: TOWN OF HUNTINGTON
 PROJECT: EAST NORTHPORT LANDFILL
 SAMPLE LOCATION: S-105

PROJ. NO.: 94S1749-01 DATE: 10-20-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	7.2	7.2	7.2
	DRY DENSITY, pcf	110.5	110.5	110.5
	SATURATION, %	38.3	38.3	38.3
	VOID RATIO	0.498	0.498	0.498
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	7.2	7.2	7.2
	DRY DENSITY, pcf	110.5	110.5	110.5
	SATURATION, %	38.3	38.3	38.3
	VOID RATIO	0.498	0.498	0.498
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		613	767	933
RESIDUAL SHEAR, psf		558	661	773
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA

SAMPLE TYPE: ALT. SELECT FILL
DESCRIPTION: CASHIN ASS.EAST

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS: ASTM D-3080

DIRECT SHEAR STRENGTH TEST
DRY CONDITION

SPECIFIC GRAVITY ASSUMED

FIG. NO. 1

CLIENT: TOWN OF HUNTINGTON

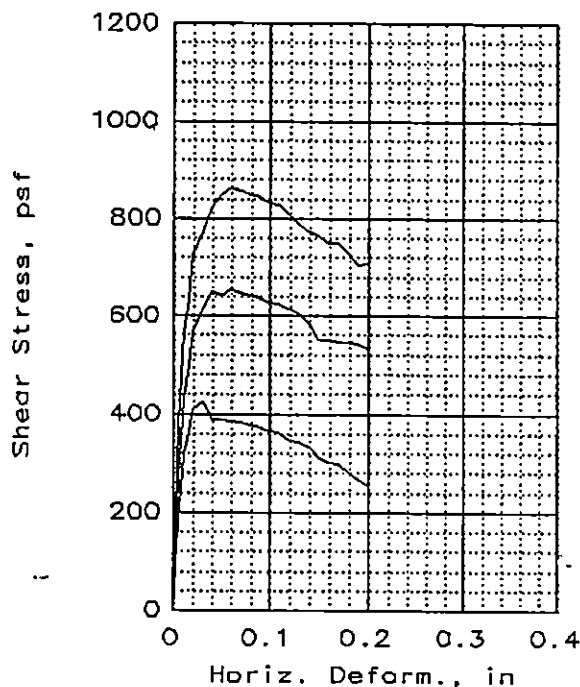
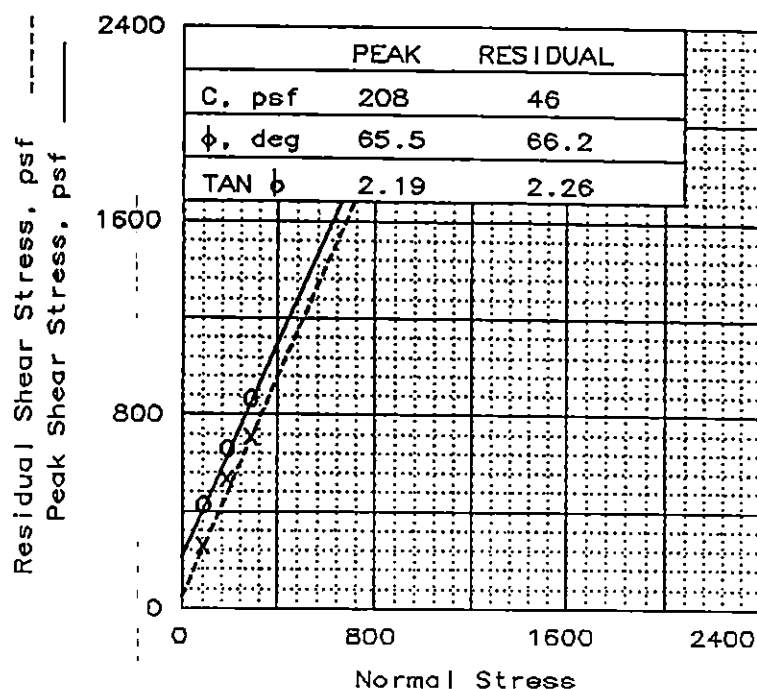
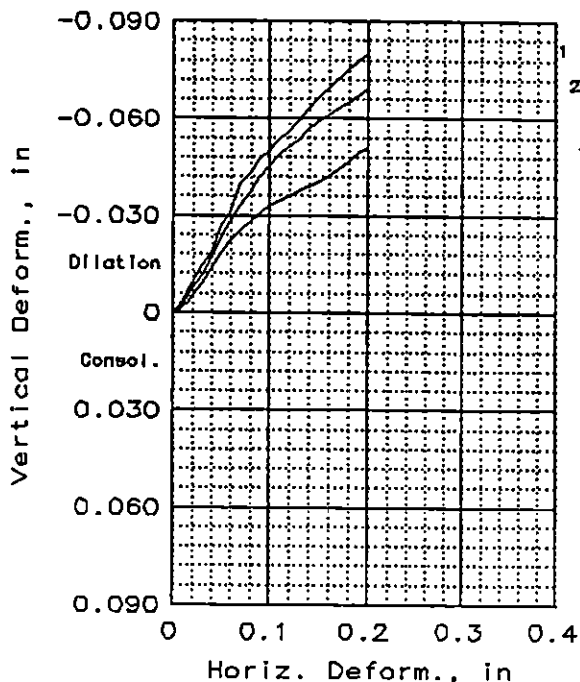
PROJECT: EAST NORTHPORT LANDFILL

SAMPLE LOCATION: S-106

PROJ. NO.: 94S1749-01 DATE: 10-20-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	7.7	7.7	7.7
	DRY DENSITY, pcf	106.9	106.9	106.9
	SATURATION, %	37.3	37.3	37.3
	VOID RATIO	0.547	0.547	0.547
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	7.7	7.7	7.7
	DRY DENSITY, pcf	106.9	106.9	106.9
	SATURATION, %	37.3	37.3	37.3
	VOID RATIO	0.547	0.547	0.547
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		424	655	863
RESIDUAL SHEAR, psf		254	533	707
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA
 SAMPLE TYPE: ALT. SELECT FILL
 DESCRIPTION: CASHIN ASS.EAST

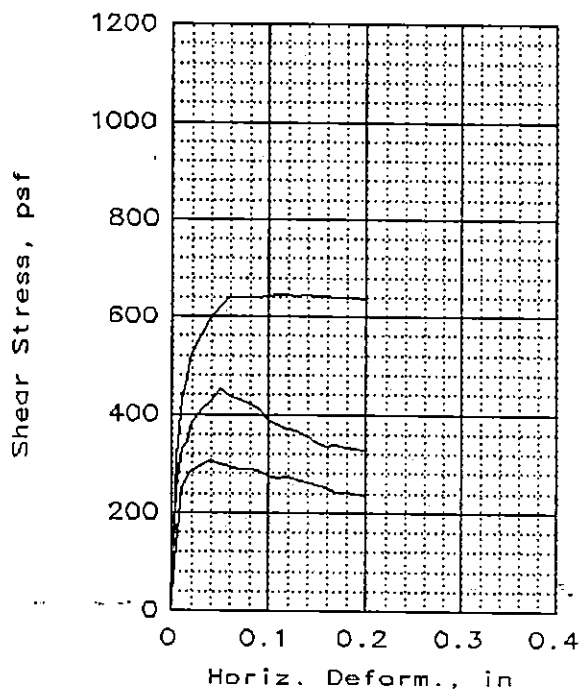
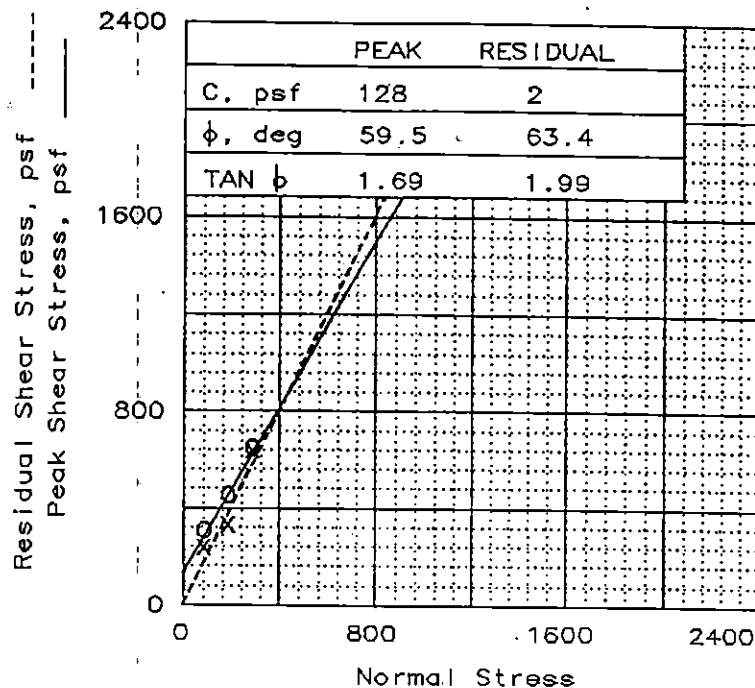
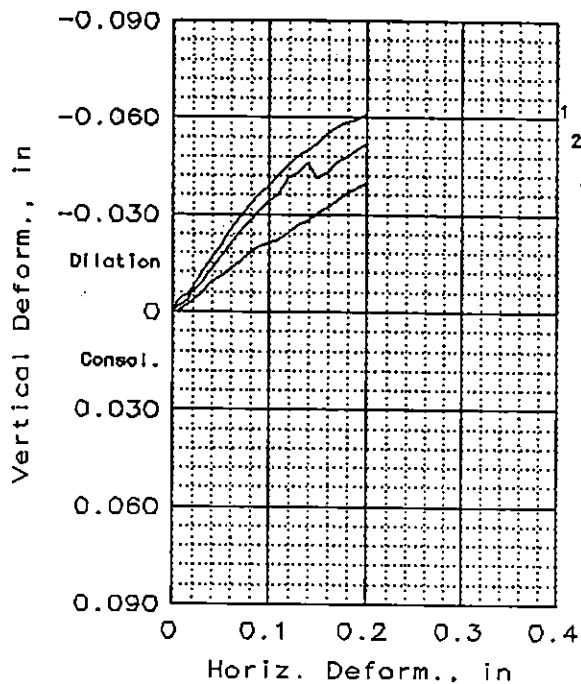
LL= PL= PI=
 SPECIFIC GRAVITY= 2.65
 REMARKS: ASTM D-3080

DIRECT SHEAR STRENGTH TEST
 DRY CONDITION
 SPECIFIC GRAVITY ASSUMED
 FIG. NO. 1

CLIENT: TOWN OF HUNTINGTON
 PROJECT: EAST NORTHPORT LANDFILL
 SAMPLE LOCATION: S-107

PROJ. NO.: 94S1749-01 DATE: 10-21-95

DIRECT SHEAR TEST REPORT
J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	7.6	7.6	7.6
	DRY DENSITY, pcf	108.1	108.1	108.1
	SATURATION, %	38.0	38.0	38.0
	VOID RATIO	0.531	0.531	0.531
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	7.6	7.6	7.6
	DRY DENSITY, pcf	108.1	108.1	108.1
	SATURATION, %	38.0	38.0	38.0
	VOID RATIO	0.531	0.531	0.531
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		307	450	646
RESIDUAL SHEAR, psf		237	328	636
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA

SAMPLE TYPE: ALT. SELECT FILL
DESCRIPTION: CASHIN ASS.EAST

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS: ASTM D-3080

DIRECT SHEAR STRENGTH TEST

DRY CONDITION

SPECIFIC GRAVITY ASSUMED

FIG. NO. 1

CLIENT: TOWN OF HUNTINGTON

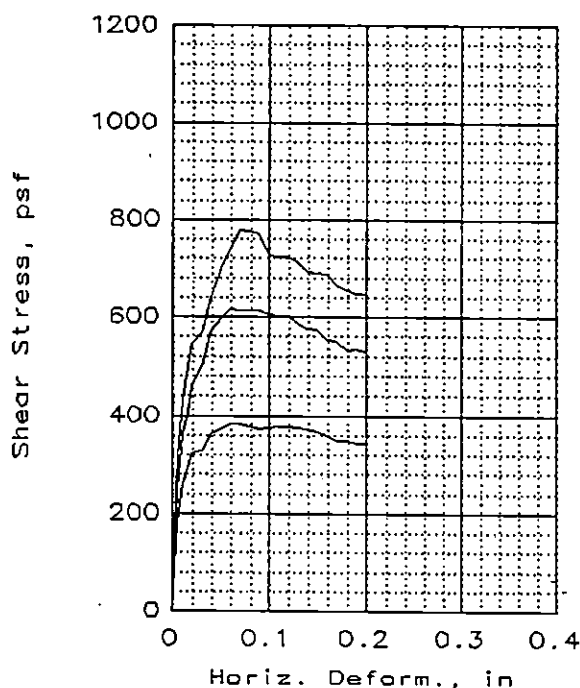
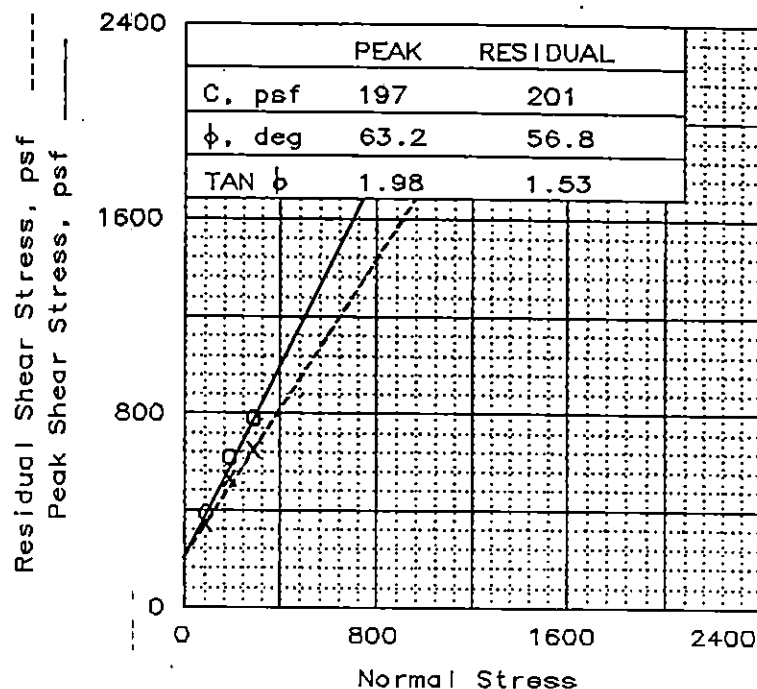
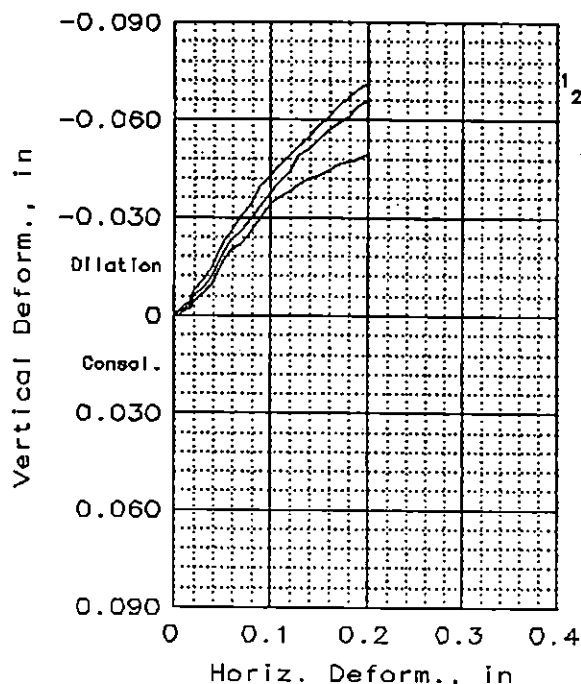
PROJECT: EAST NORTHPORT LANDFILL

SAMPLE LOCATION: S-108

PROJ. NO.: 94S1749-08 DATE: 10-30-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	7.6	7.6	7.6
	DRY DENSITY, pcf	110.6	110.6	110.6
	SATURATION, %	40.6	40.6	40.6
	VOID RATIO	0.496	0.496	0.496
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	7.6	7.6	7.6
	DRY DENSITY, pcf	110.6	110.6	110.6
	SATURATION, %	40.6	40.6	40.6
	VOID RATIO	0.496	0.496	0.496
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		383	616	778
RESIDUAL SHEAR, psf		343	531	648
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA
 SAMPLE TYPE: ALT. SELECT FILL
 DESCRIPTION: CASHIN ASS.EAST

LL= PL= PI=
 SPECIFIC GRAVITY= 2.65
 REMARKS: ASTM D-3080

DIRECT SHEAR STRENGTH TEST
 DRY CONDITION
 . SPECIFIC GRAVITY ASSUMED
 FIG. NO. 1

CLIENT: TOWN OF HUNTINGTON

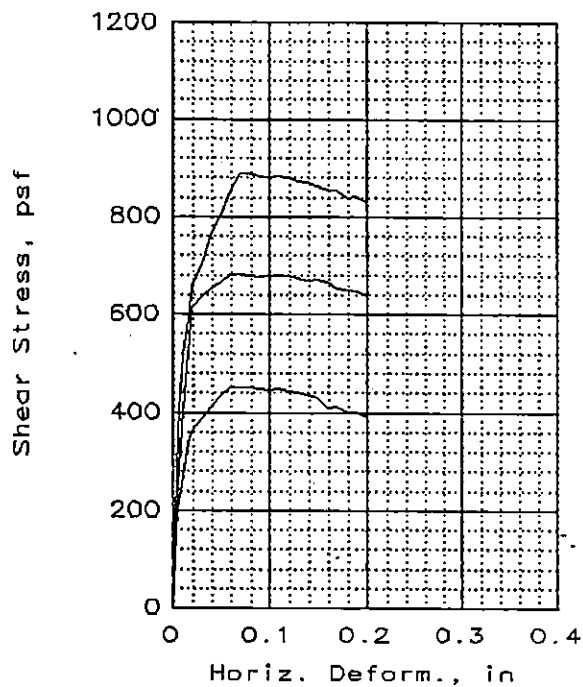
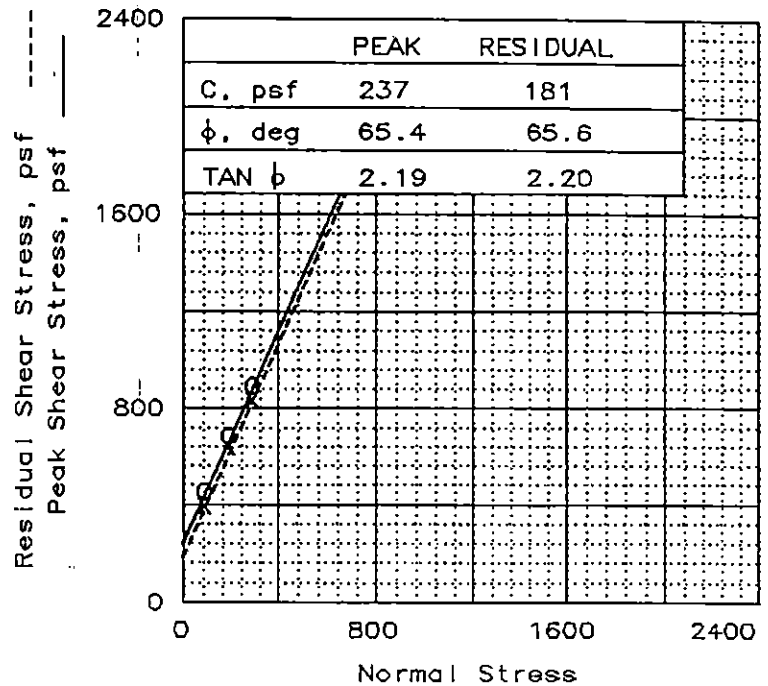
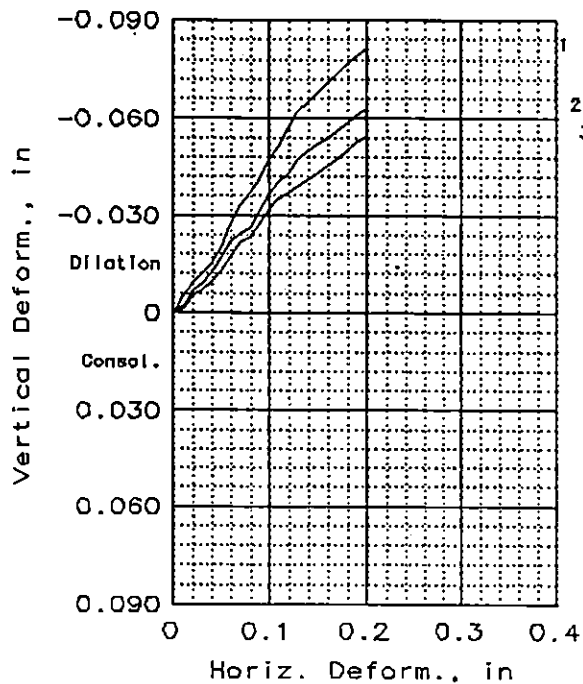
PROJECT: EAST NORTHPORT LANDFILL

SAMPLE LOCATION: S-109

PROJ. NO.: 94S1749-08 DATE: 10-30-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	7.0	7.0	7.0
	DRY DENSITY, pcf	109.4	109.4	109.4
	SATURATION, %	36.2	36.2	36.2
	VOID RATIO	0.513	0.513	0.513
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	7.0	7.0	7.0
	DRY DENSITY, pcf	109.4	109.4	109.4
	SATURATION, %	36.2	36.2	36.2
	VOID RATIO	0.513	0.513	0.513
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		452	683	889
RESIDUAL SHEAR, psf		391	641	832
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA
 SAMPLE TYPE: ALT. SELECT FILL
 DESCRIPTION: CASHIN ASS.EAST

LL= PL= PI=
 SPECIFIC GRAVITY= 2.65
 REMARKS: ASTM D-3080

DIRECT SHEAR STRENGTH TEST
 DRY CONDITION
 SPECIFIC GRAVITY ASSUMED
 FIG. NO. 1

CLIENT: TOWN OF HUNTINGTON

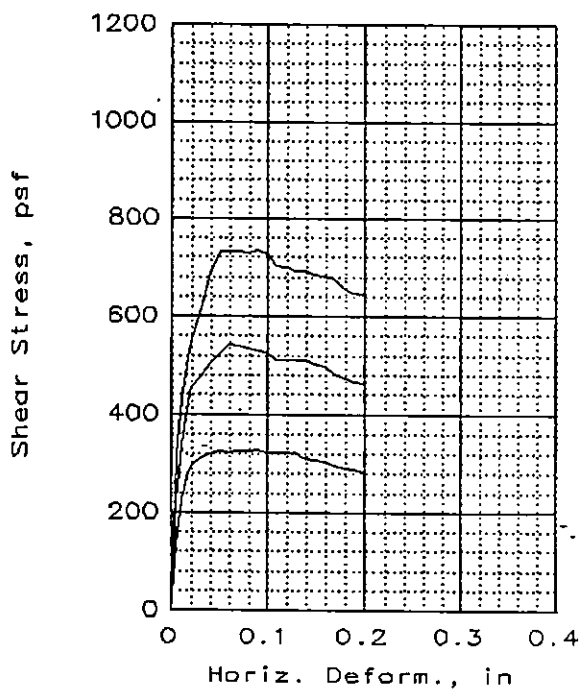
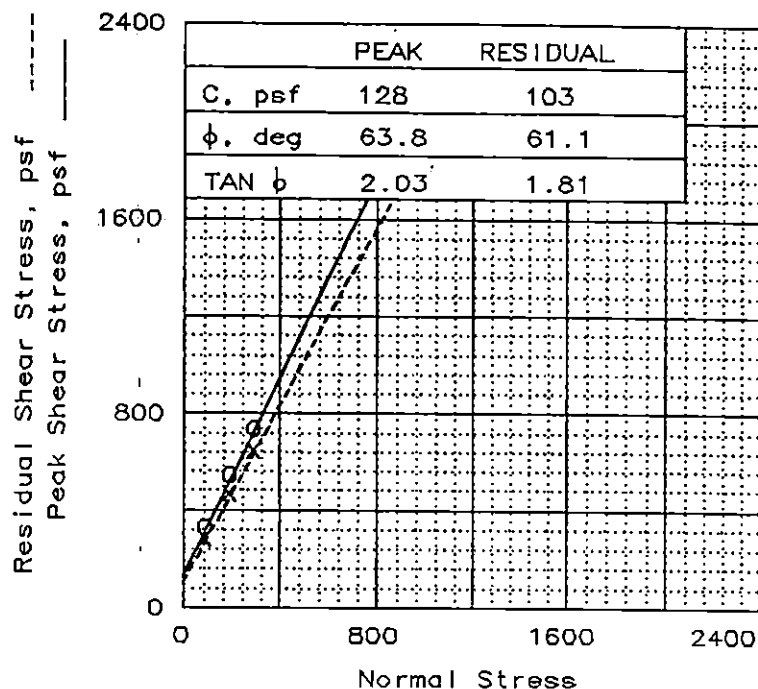
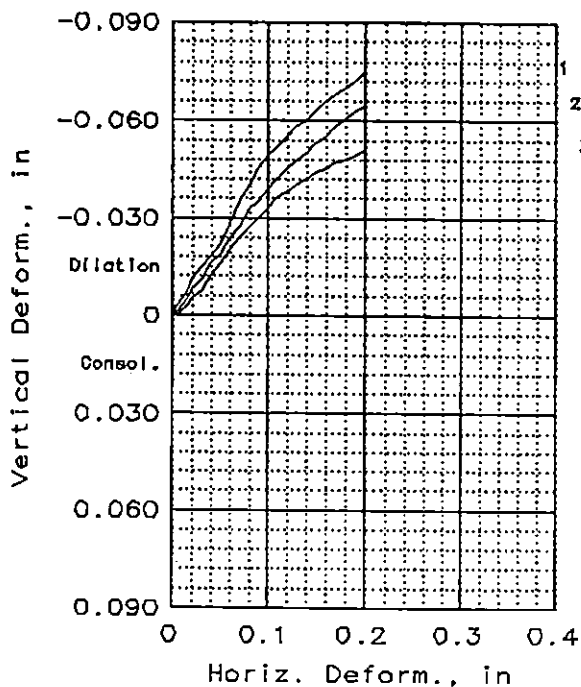
PROJECT: EAST NORTHPORT LANDFILL

SAMPLE LOCATION: S-110

PROJ. NO.: 94S1749-08 DATE: 10-30-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	7.0	7.0	7.0
	DRY DENSITY, pcf	106.1	106.1	106.1
	SATURATION, %	33.1	33.1	33.1
	VOID RATIO	0.559	0.559	0.559
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	7.0	7.0	7.0
	DRY DENSITY, pcf	106.1	106.1	106.1
	SATURATION, %	33.1	33.1	33.1
	VOID RATIO	0.559	0.559	0.559
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		327	542	733
RESIDUAL SHEAR, psf		284	465	646
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA

SAMPLE TYPE: ALT. SELECT FILL
DESCRIPTION: CASHIN ASS.EAST

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS: ASTM D-3080

DIRECT SHEAR STRENGTH TEST
DRY CONDITION

SPECIFIC GRAVITY ASSUMED

FIG. NO. 1

CLIENT: TOWN OF HUNTINGTON

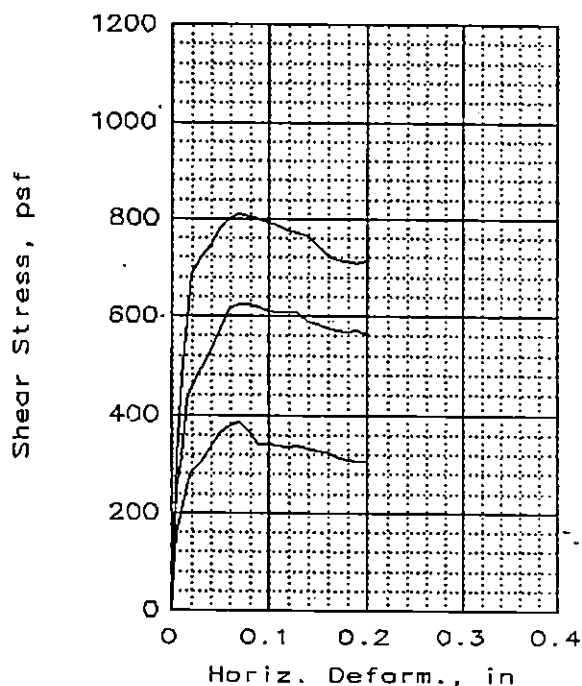
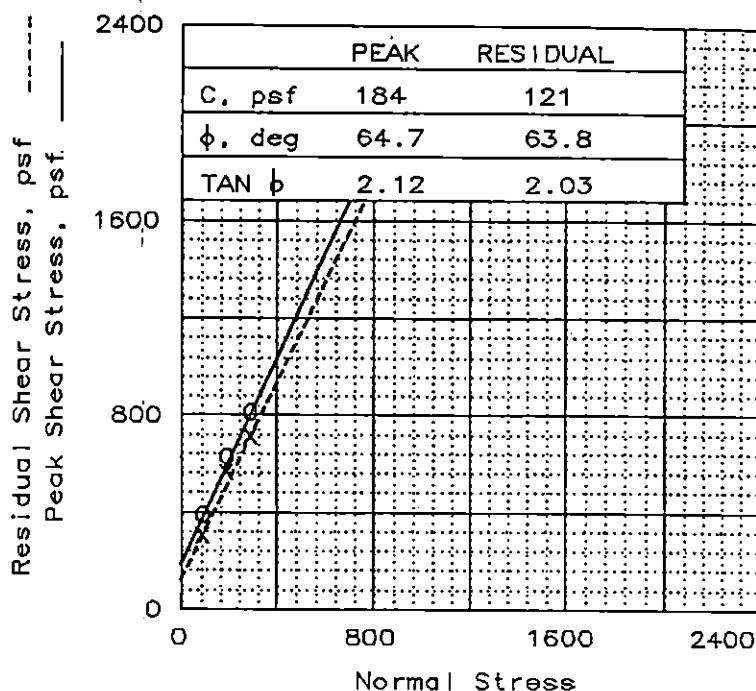
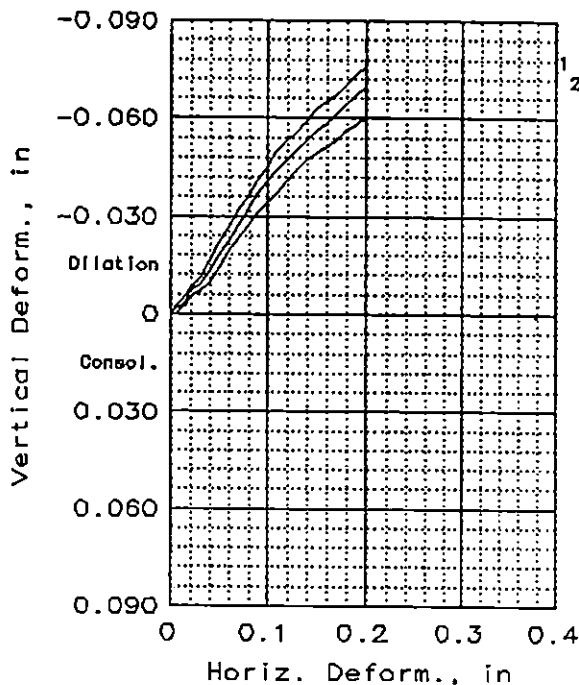
PROJECT: EAST NORTHPORT LANDFILL

SAMPLE LOCATION: S-111

PROJ. NO.: 94S1749-08 DATE: 10-30-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	7.7	7.7	7.7
	DRY DENSITY, pcf	107.7	107.7	107.7
	SATURATION, %	38.1	38.1	38.1
	VOID RATIO	0.535	0.535	0.535
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	7.7	7.7	7.7
	DRY DENSITY, pcf	107.7	107.7	107.7
	SATURATION, %	38.1	38.1	38.1
	VOID RATIO	0.535	0.535	0.535
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		387	625	811
RESIDUAL SHEAR, psf		306	563	712
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA

SAMPLE TYPE: ALT. SELECT FILL
DESCRIPTION: CASHIN ASS.EAST

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS: ASTM D-3080

DIRECT SHEAR STRENGTH TEST
DRY CONDITION

SPECIFIC GRAVITY ASSUMED

FIG. NO. 1

CLIENT: TOWN OF HUNTINGTON

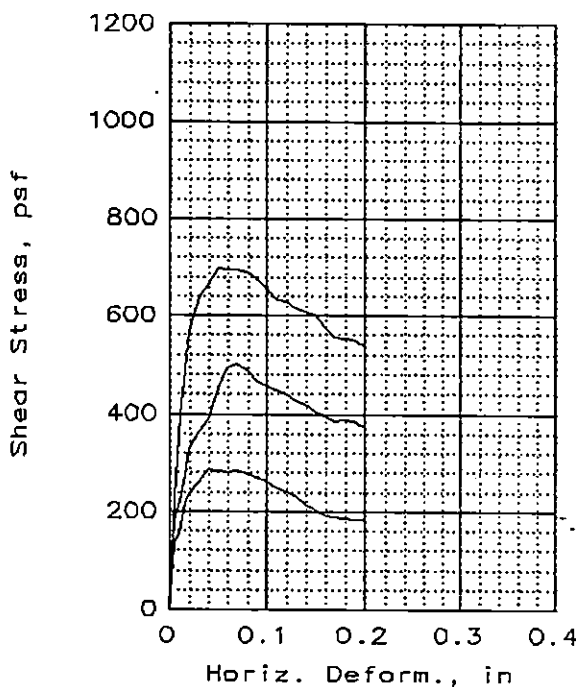
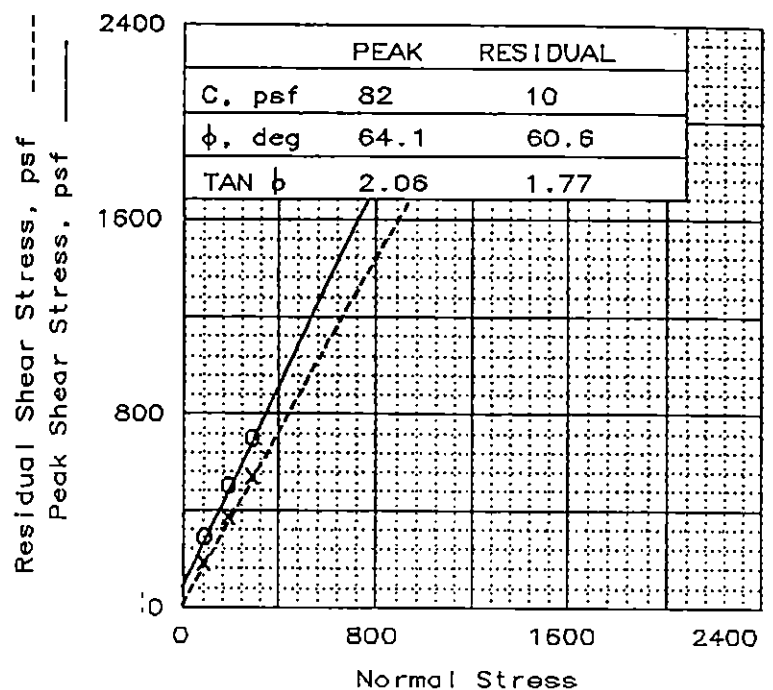
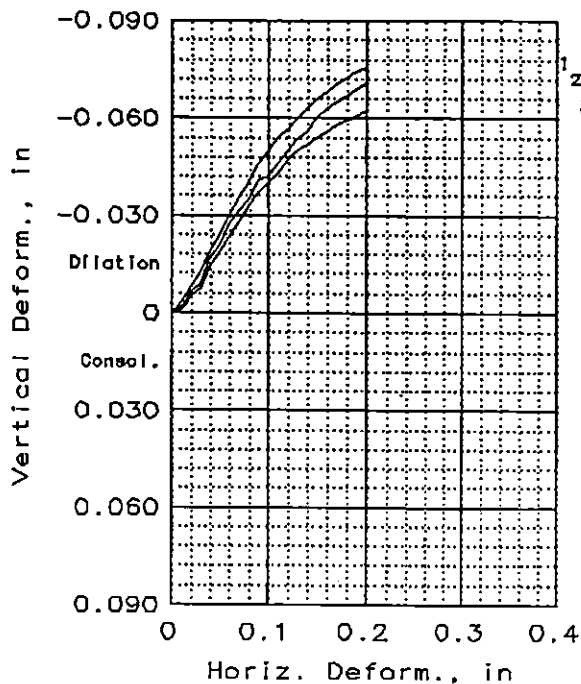
PROJECT: EAST NORTHPORT LANDFILL

SAMPLE LOCATION: S-112

PROJ. NO.: 94S1749-08 DATE: 10-30-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	7.5	7.5	7.5
	DRY DENSITY, pcf	106.0	106.0	106.0
	SATURATION, %	35.5	35.5	35.5
	VOID RATIO	0.560	0.560	0.560
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	7.5	7.5	7.5
	DRY DENSITY, pcf	106.0	106.0	106.0
	SATURATION, %	35.5	35.5	35.5
	VOID RATIO	0.560	0.560	0.560
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		286	500	698
RESIDUAL SHEAR, psf		184	372	538
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA

SAMPLE TYPE: ALT. SELECT FILL
DESCRIPTION: CASHIN ASS.EAST

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS: ASTM D-3080

DIRECT SHEAR STRENGTH TEST

DRY CONDITION

SPECIFIC GRAVITY ASSUMED

FIG. NO. 1

CLIENT: TOWN OF HUNTINGTON

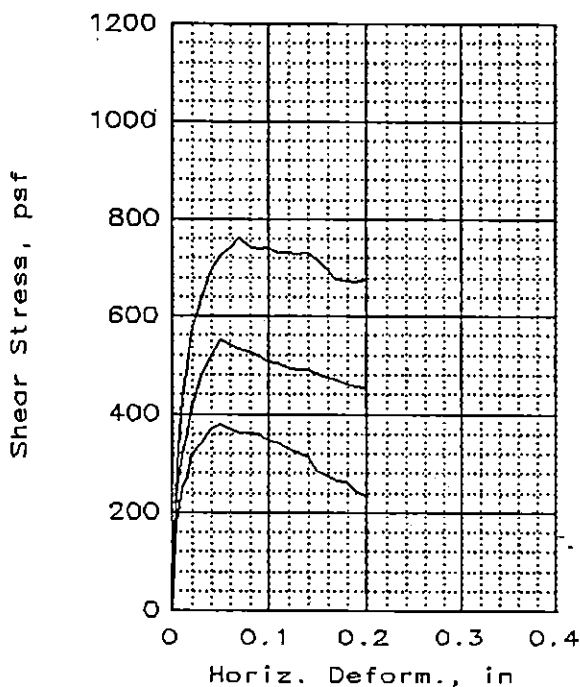
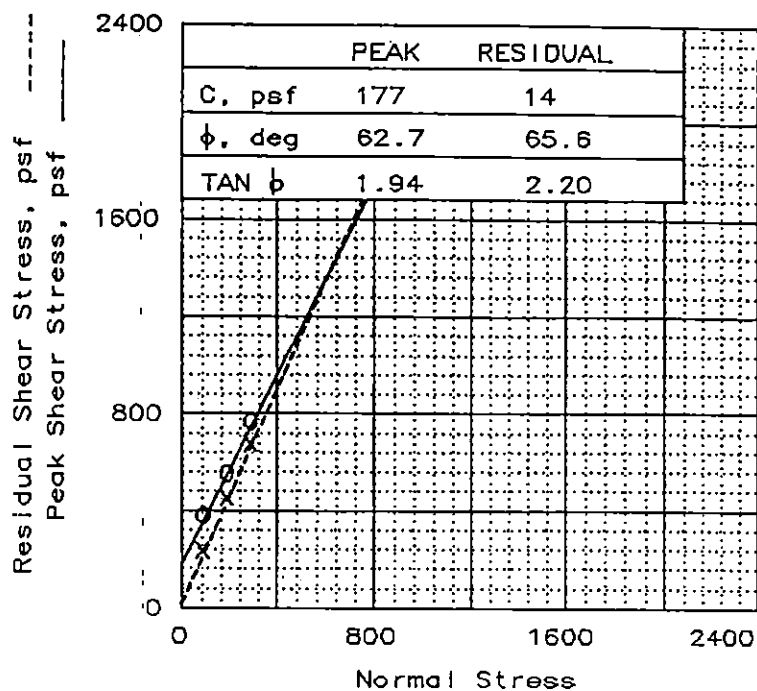
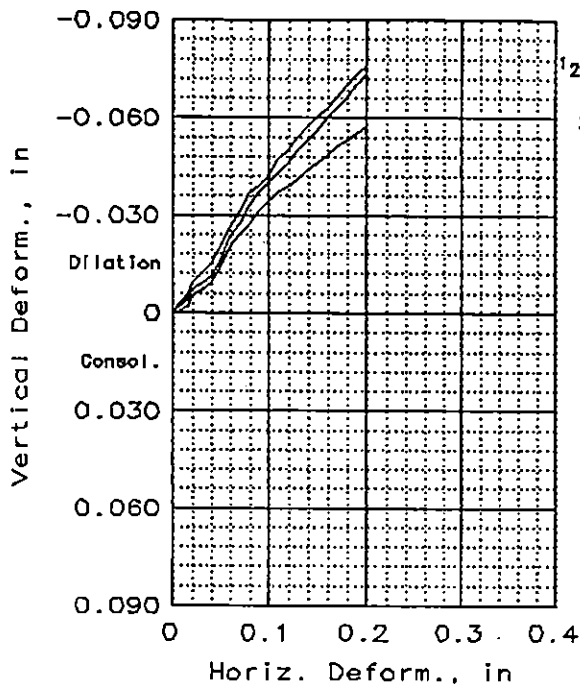
PROJECT: EAST NORTHPORT LANDFILL

SAMPLE LOCATION: S-113

PROJ. NO.: 94S1749-08 DATE: 11-1-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	8.1	8.1	8.1
	DRY DENSITY, pcf	108.4	108.4	108.4
	SATURATION, %	40.8	40.8	40.8
	VOID RATIO	0.526	0.526	0.526
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	8.1	8.1	8.1
	DRY DENSITY, pcf	108.4	108.4	108.4
	SATURATION, %	40.8	40.8	40.8
	VOID RATIO	0.526	0.526	0.526
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		377	551	764
RESIDUAL SHEAR, psf		235	453	675
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA
SAMPLE TYPE: ALT. SELECT FILL
DESCRIPTION: CASHIN ASS.EAST

LL= PL= PI=
SPECIFIC GRAVITY= 2.65
REMARKS: ASTM D-3080

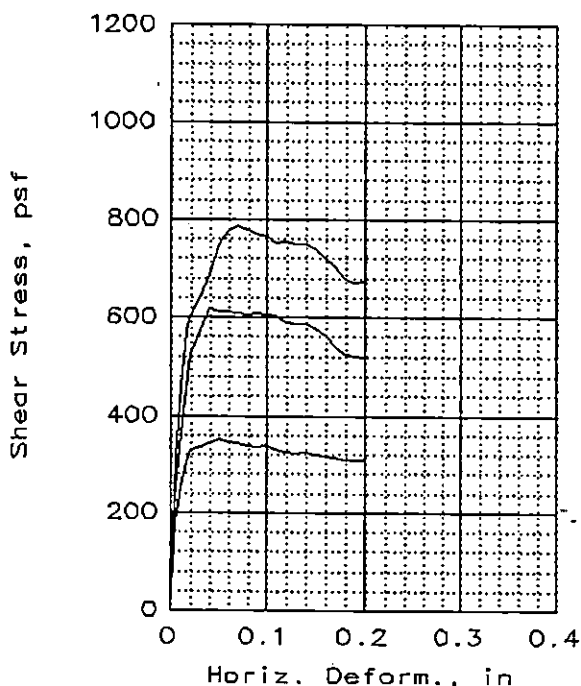
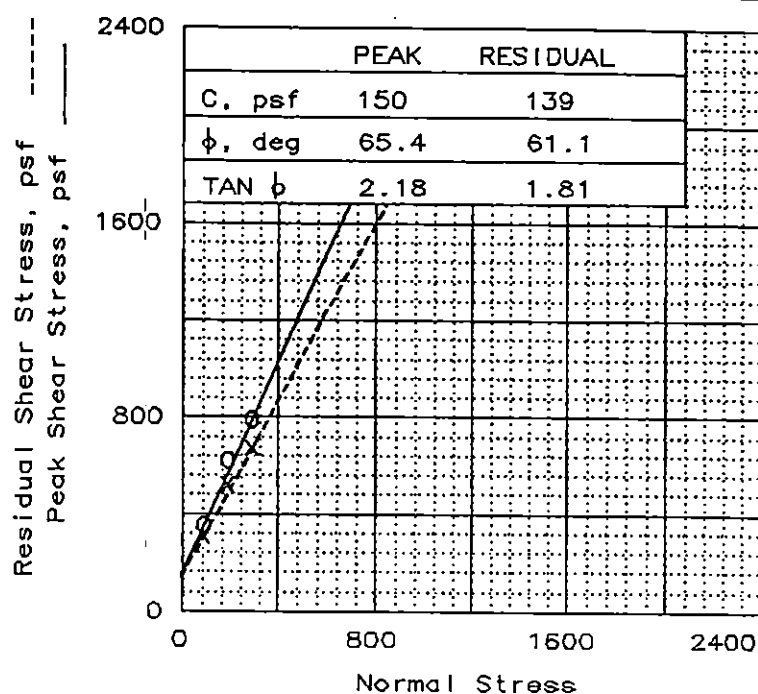
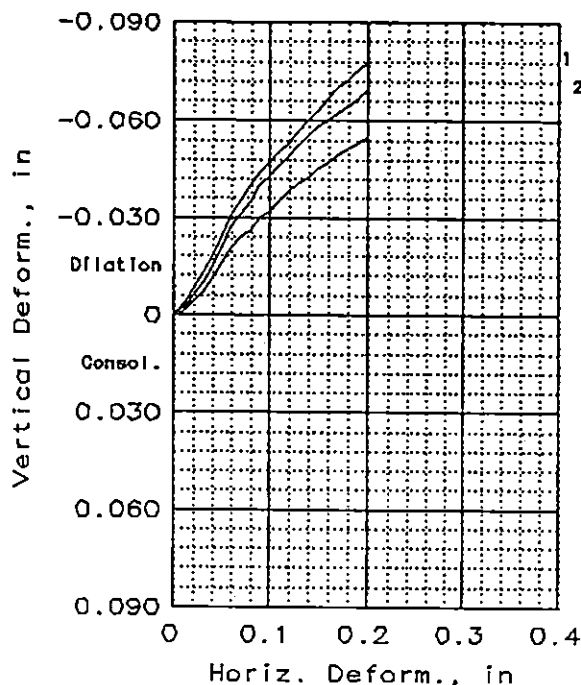
DIRECT SHEAR STRENGTH TEST
DRY CONDITION
SPECIFIC GRAVITY ASSUMED
FIG. NO. 1

CLIENT: TOWN OF HUNTINGTON
PROJECT: EAST NORTHPORT LANDFILL
SAMPLE LOCATION: S-114

PROJ. NO.: 94S1749-08 DATE: 11-1-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	7.1	7.1	7.1
	DRY DENSITY, pcf	109.5	109.5	109.5
	SATURATION, %	36.9	36.9	36.9
	VOID RATIO	0.510	0.510	0.510
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	7.1	7.1	7.1
	DRY DENSITY, pcf	109.5	109.5	109.5
	SATURATION, %	36.9	36.9	36.9
	VOID RATIO	0.510	0.510	0.510
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		351	620	787
RESIDUAL SHEAR, psf		311	519	673
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA

SAMPLE TYPE: ALT. SELECT FILL
DESCRIPTION: CASHIN ASS.EAST

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS: ASTM D-3080

DIRECT SHEAR STRENGTH TEST

DRY CONDITION

SPECIFIC GRAVITY ASSUMED

FIG. NO. 1

CLIENT: TOWN OF HUNTINGTON

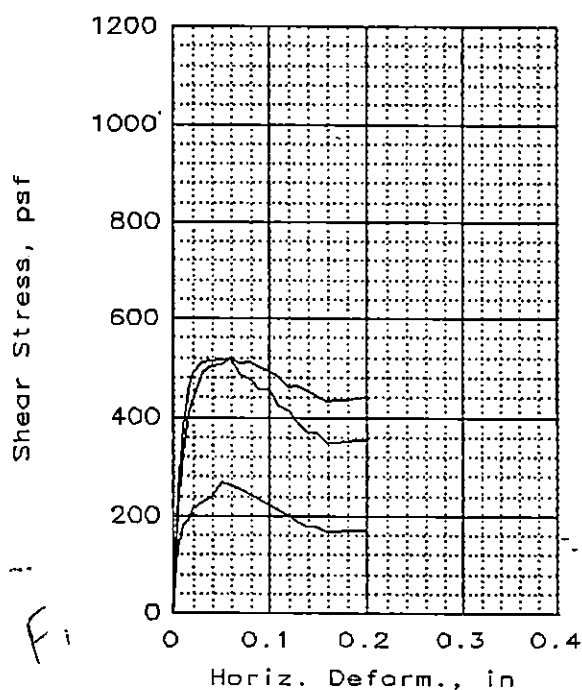
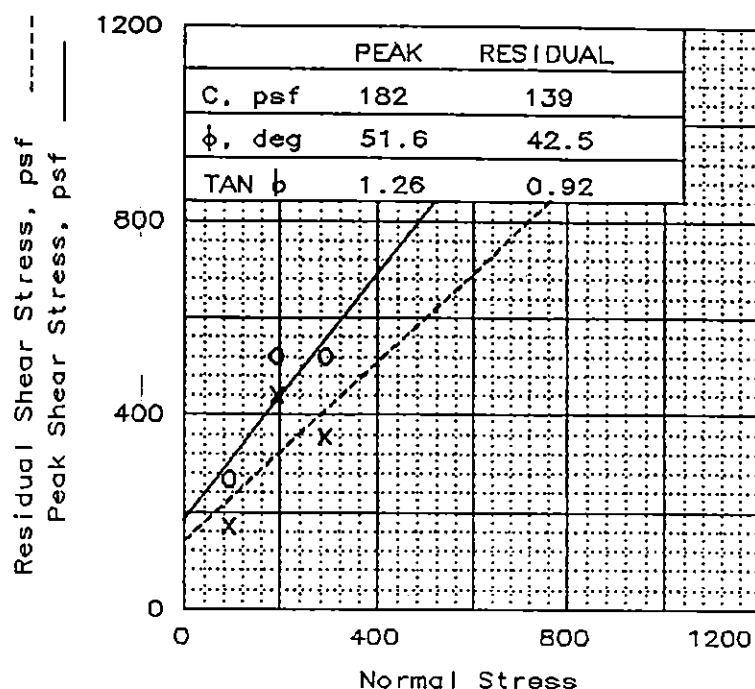
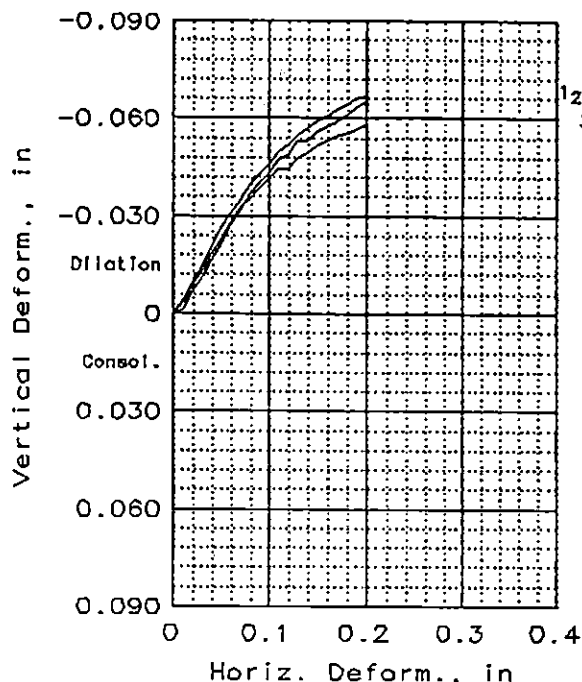
PROJECT: EAST NORTHPORT LANDFILL

SAMPLE LOCATION: S-115

PROJ. NO.: '94S1749-08 DATE: 11-1-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	7.0	7.0	7.0
	DRY DENSITY, pcf	106.0	106.0	106.0
	SATURATION, %	33.0	33.0	33.0
	VOID RATIO	0.561	0.561	0.561
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	7.0	7.0	7.0
	DRY DENSITY, pcf	106.0	106.0	106.0
	SATURATION, %	33.0	33.0	33.0
	VOID RATIO	0.561	0.561	0.561
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		266	519	519
RESIDUAL SHEAR, psf		171	440	355
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA

SAMPLE TYPE: ALT. SELECT FILL
DESCRIPTION: CASHIN ASS.EAST

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS: ASTM D-3080

DIRECT SHEAR STRENGTH TEST
DRY CONDITION

SPECIFIC GRAVITY ASSUMED

FIG. NO. 1

CLIENT: TOWN OF HUNTINGTON

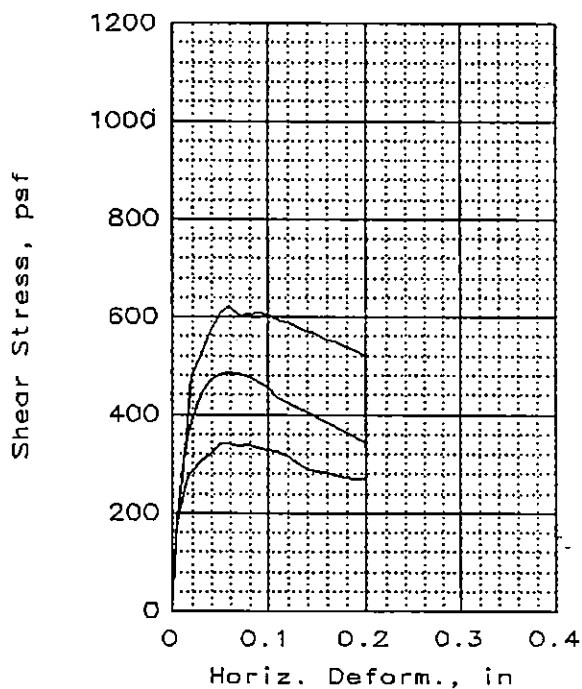
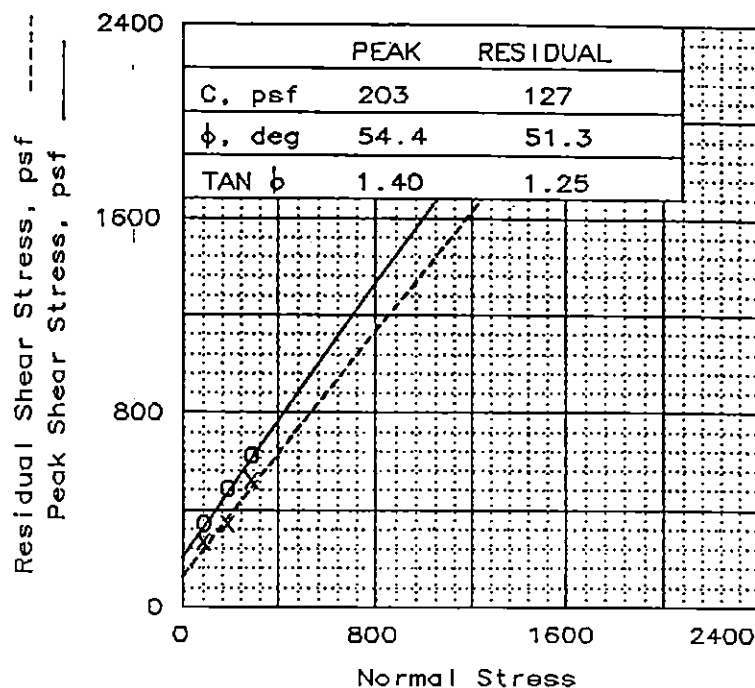
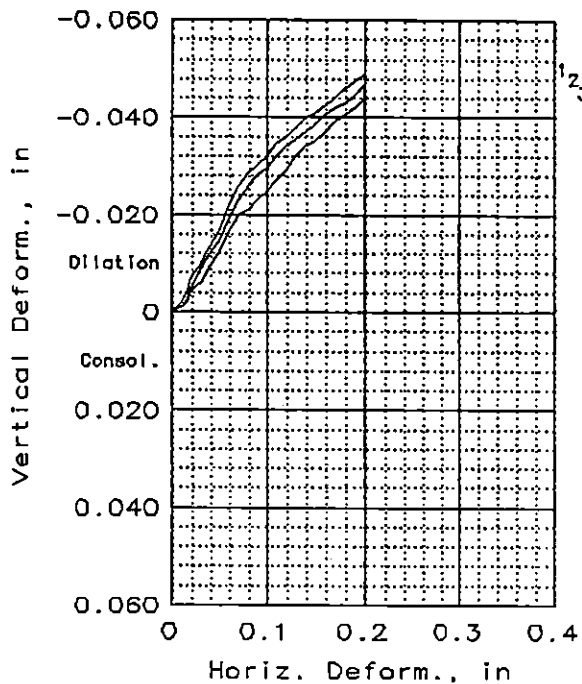
PROJECT: EAST NORTHPORT LANDFILL

SAMPLE LOCATION: S-116

PROJ. NO.: 94S1749-08 DATE: 11-2-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	7.7	7.7	7.7
	DRY DENSITY, pcf	106.9	106.9	106.9
	SATURATION, %	37.3	37.3	37.3
	VOID RATIO	0.547	0.547	0.547
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	7.7	7.7	7.7
	DRY DENSITY, pcf	106.9	106.9	106.9
	SATURATION, %	37.3	37.3	37.3
	VOID RATIO	0.547	0.547	0.547
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		341	484	620
RESIDUAL SHEAR, psf		269	343	519
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA
SAMPLE TYPE: ALT. SELECT FILL
DESCRIPTION: CASHIN ASS.EAST

LL= PL= PI=
SPECIFIC GRAVITY= 2.65
REMARKS: ASTM D-3080

DIRECT SHEAR STRENGTH TEST
DRY CONDITION
SPECIFIC GRAVITY ASSUMED

FIG. NO. 1

CLIENT: TOWN OF HUNTINGTON

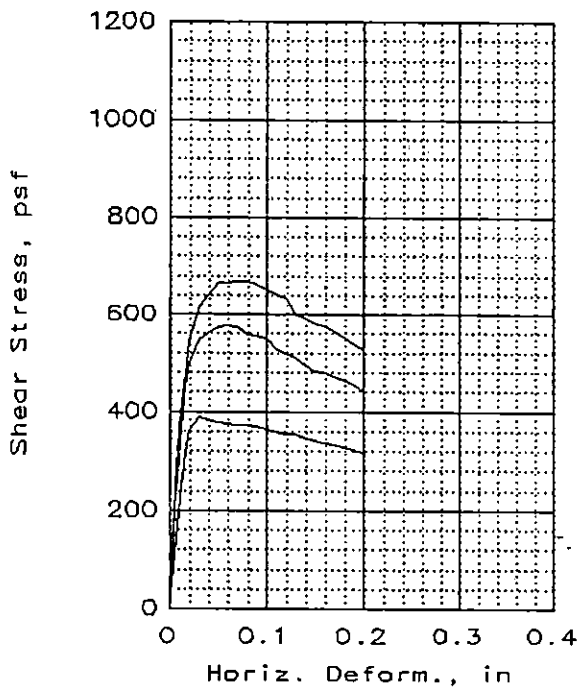
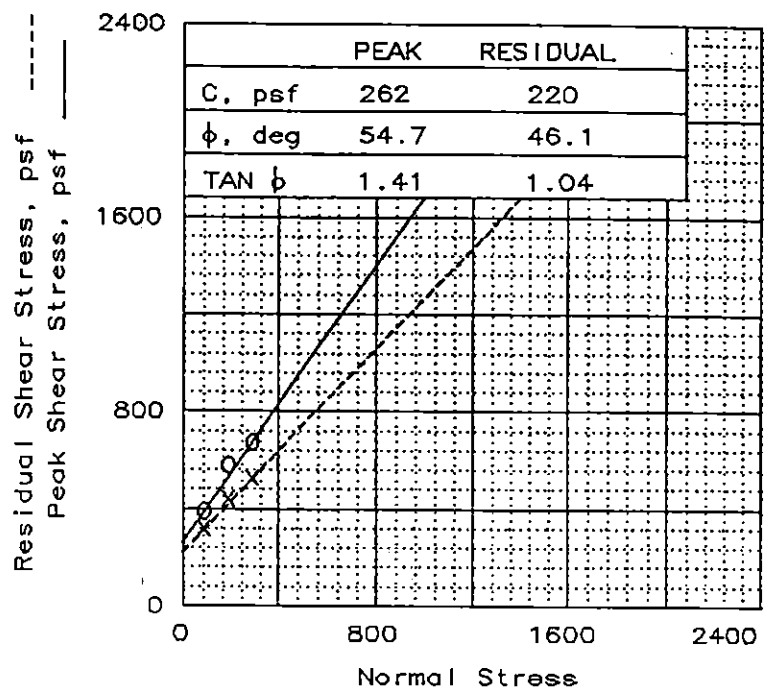
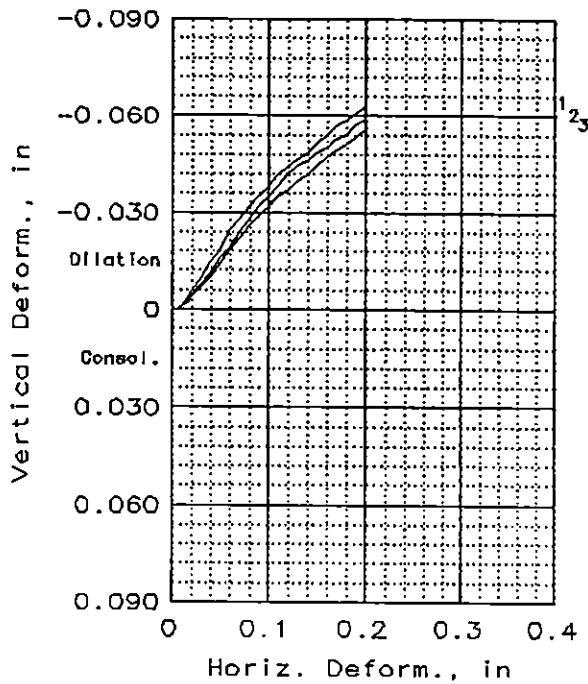
PROJECT: EAST NORTHPORT LANDFILL

SAMPLE LOCATION: S-117

PROJ. NO.: 94S1749-10 DATE: 11-12-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.



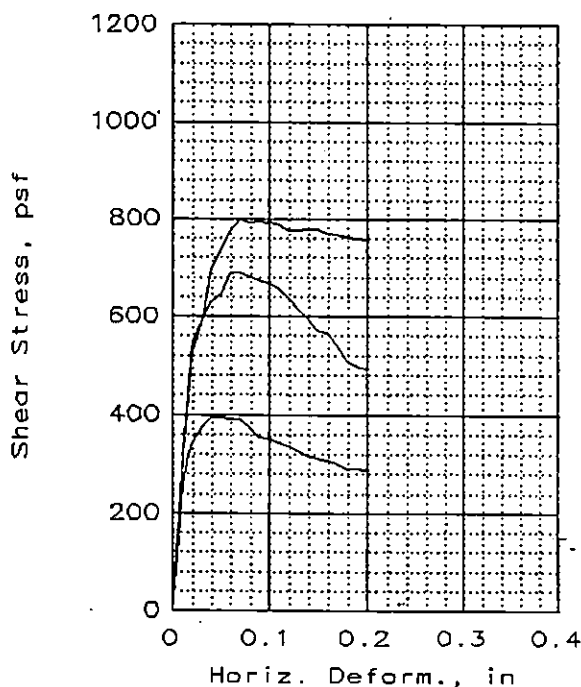
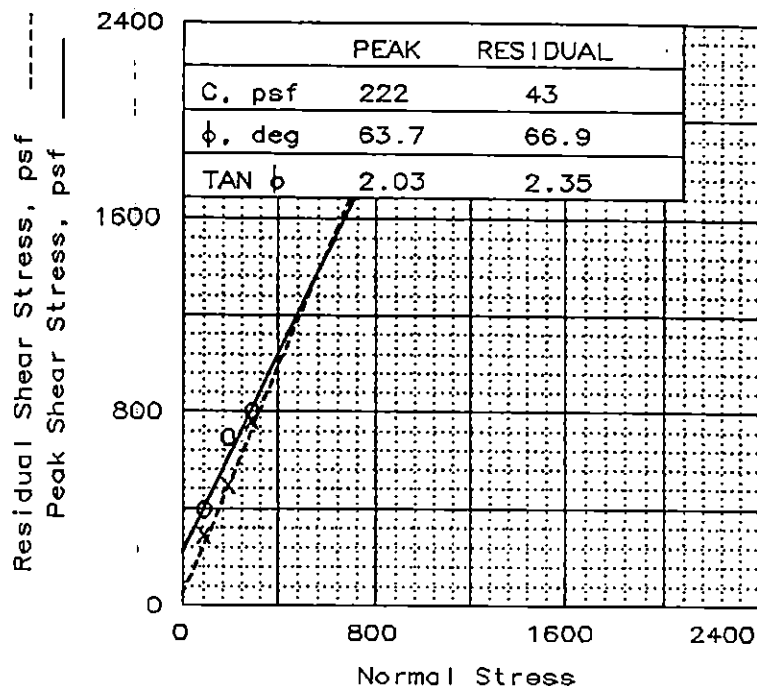
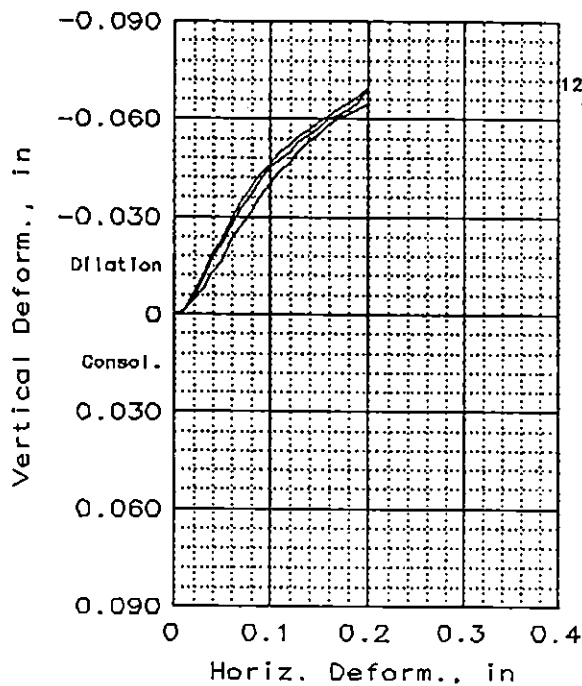
SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	7.1	7.1	7.1
	DRY DENSITY, pcf	106.0	106.0	106.0
	SATURATION, %	33.5	33.5	33.5
	VOID RATIO	0.561	0.561	0.561
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	7.1	7.1	7.1
	DRY DENSITY, pcf	106.0	106.0	106.0
	SATURATION, %	33.5	33.5	33.5
	VOID RATIO	0.561	0.561	0.561
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		387	577	670
RESIDUAL SHEAR, psf		318	440	526
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA
 SAMPLE TYPE: ALT. SELECT FILL
 DESCRIPTION: CASHIN ASS.EAST
 LL= PL= PI=
 SPECIFIC GRAVITY= 2.65
 REMARKS: ASTM D-3080
 DIRECT SHEAR STRENGTH TEST
 DRY CONDITION
 SPECIFIC GRAVITY ASSUMED
 FIG. NO. 1

CLIENT: TOWN OF HUNTINGTON
 PROJECT: EAST NORTHPORT LANDFILL
 SAMPLE LOCATION: S-118
 PROJ. NO.: 94S1749-01 DATE: 11-12-95

DIRECT SHEAR TEST REPORT.

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	7.3	7.3	7.3
	DRY DENSITY, pcf	110.2	110.2	110.2
	SATURATION, %	38.6	38.6	38.6
	VOID RATIO	0.501	0.501	0.501
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	7.3	7.3	7.3
	DRY DENSITY, pcf	110.2	110.2	110.2
	SATURATION, %	38.6	38.6	38.6
	VOID RATIO	0.501	0.501	0.501
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		393	690	799
RESIDUAL SHEAR, psf		289	492	758
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA

SAMPLE TYPE: ALT. SELECT FILL
DESCRIPTION: CASHIN ASS.EAST

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS: ASTM D-3080

DIRECT SHEAR STRENGTH TEST
DRY CONDITION

SPECIFIC GRAVITY ASSUMED

FIG. NO. 1

CLIENT: TOWN OF HUNTINGTON

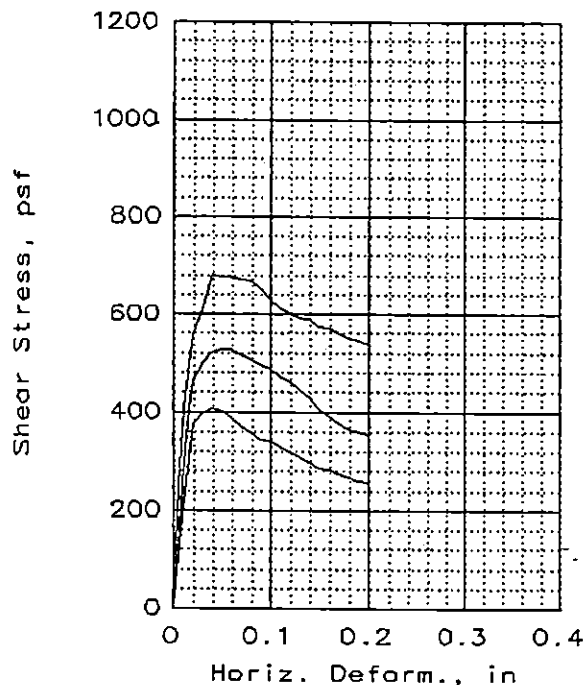
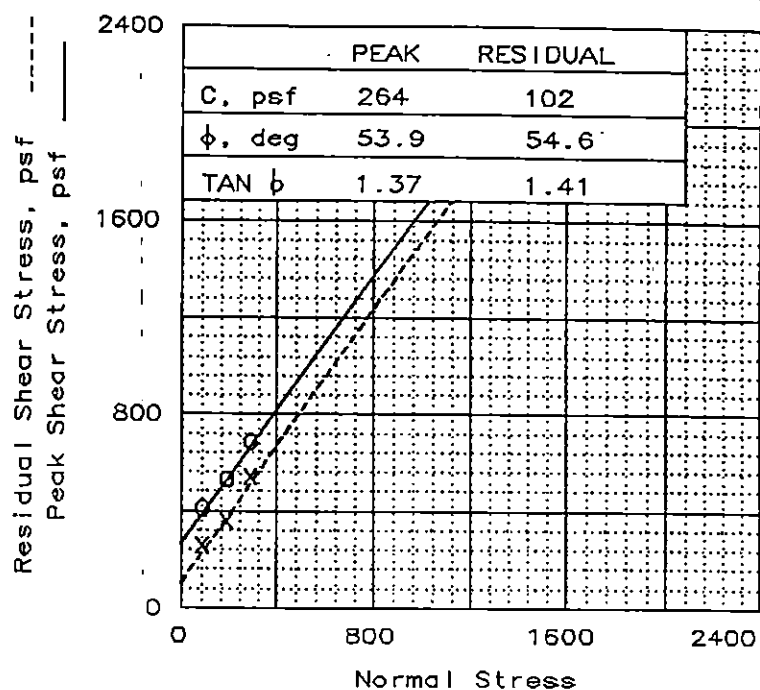
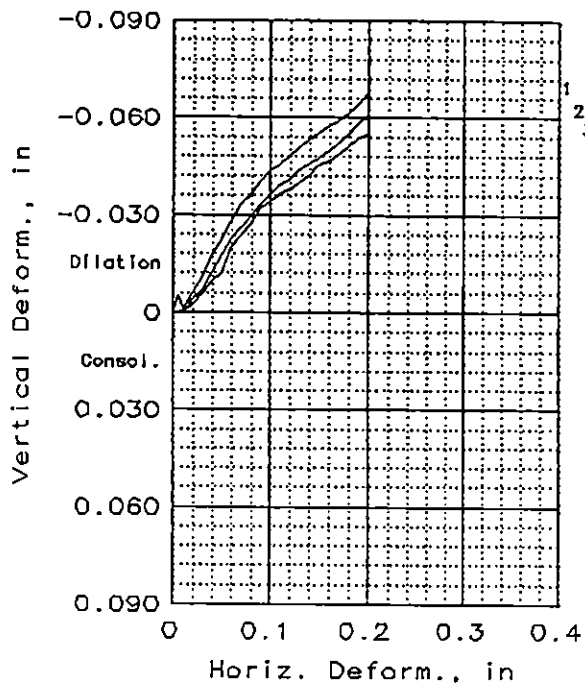
PROJECT: EAST NORTHPORT LANDFILL

SAMPLE LOCATION: S-119

PROJ. NO.: 94S1749-01 DATE: 11-12-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	7.0	7.0	7.0
	DRY DENSITY, pcf	106.1	106.1	106.1
	SATURATION, %	33.2	33.2	33.2
	VOID RATIO	0.560	0.560	0.560
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	7.0	7.0	7.0
	DRY DENSITY, pcf	106.1	106.1	106.1
	SATURATION, %	33.2	33.2	33.2
	VOID RATIO	0.560	0.560	0.560
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		407	526	682
RESIDUAL SHEAR, psf		257	355	538
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA

SAMPLE TYPE: ALT. SELECT FILL
DESCRIPTION: CASHIN ASS.EAST

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS: ASTM D-3080

DIRECT SHEAR STRENGTH TEST

DRY CONDITION

SPECIFIC GRAVITY ASSUMED

FIG. NO. 1

CLIENT: TOWN OF HUNTINGTON

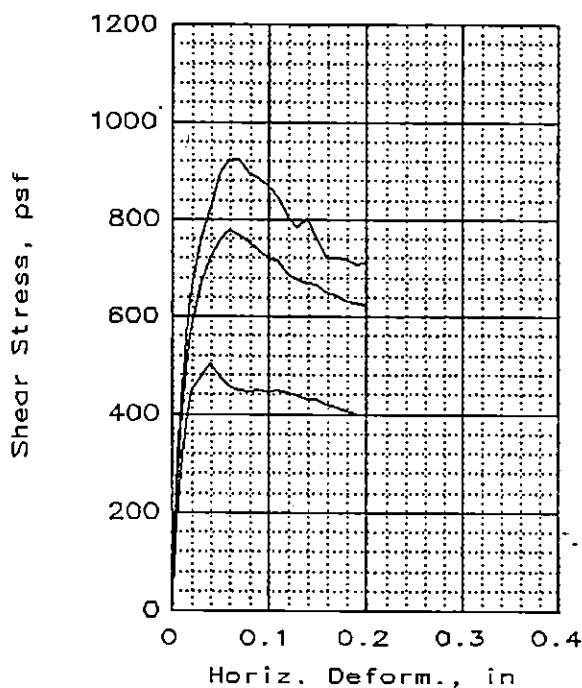
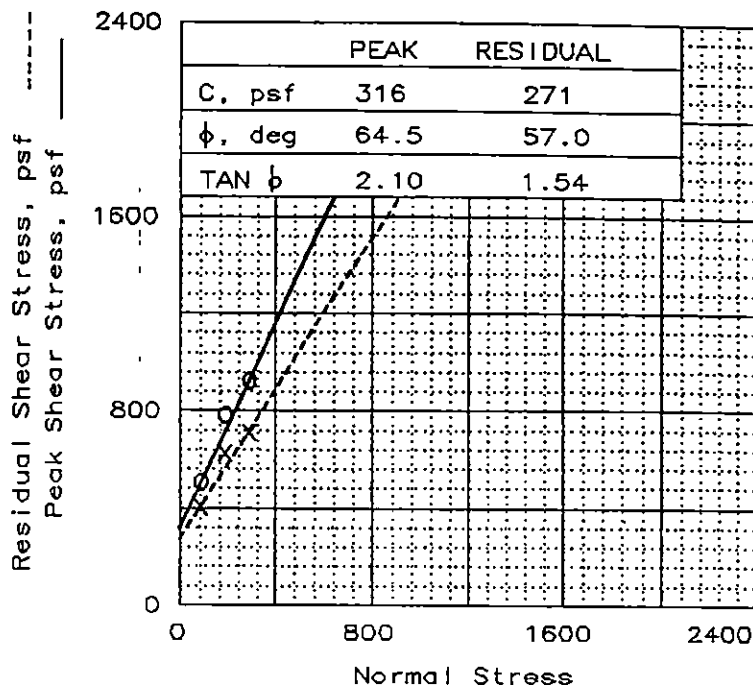
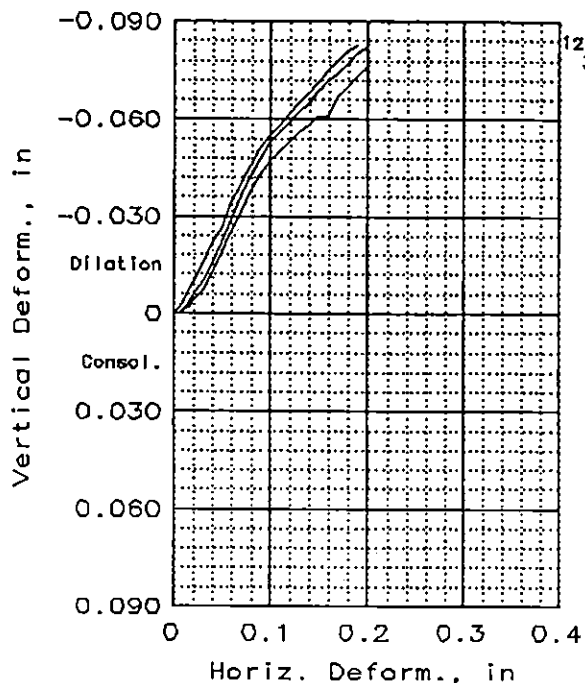
PROJECT: EAST NORTHPORT LANDFILL

SAMPLE LOCATION: S-120

PROJ. NO.: 94S1749-01 DATE: 11-13-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	7.5	7.5	7.5
	DRY DENSITY, pcf	110.7	110.7	110.7
	SATURATION, %	40.2	40.2	40.2
	VOID RATIO	0.494	0.494	0.494
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	7.5	7.5	7.5
	DRY DENSITY, pcf	110.7	110.7	110.7
	SATURATION, %	40.2	40.2	40.2
	VOID RATIO	0.494	0.494	0.494
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		503	780	923
RESIDUAL SHEAR, psf		402	624	710
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA

SAMPLE TYPE: ALT. SELECT FILL
DESCRIPTION: CASHIN ASS.EAST

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS: ASTM D-3080

DIRECT SHEAR STRENGTH TEST
DRY CONDITION

SPECIFIC GRAVITY ASSUMED

FIG. NO. 1

CLIENT: TOWN OF HUNTINGTON

PROJECT: EAST NORTHPORT LANDFILL

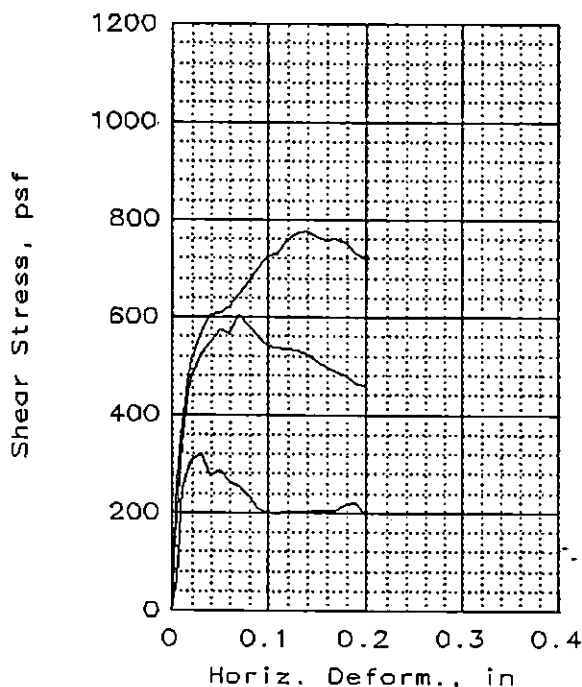
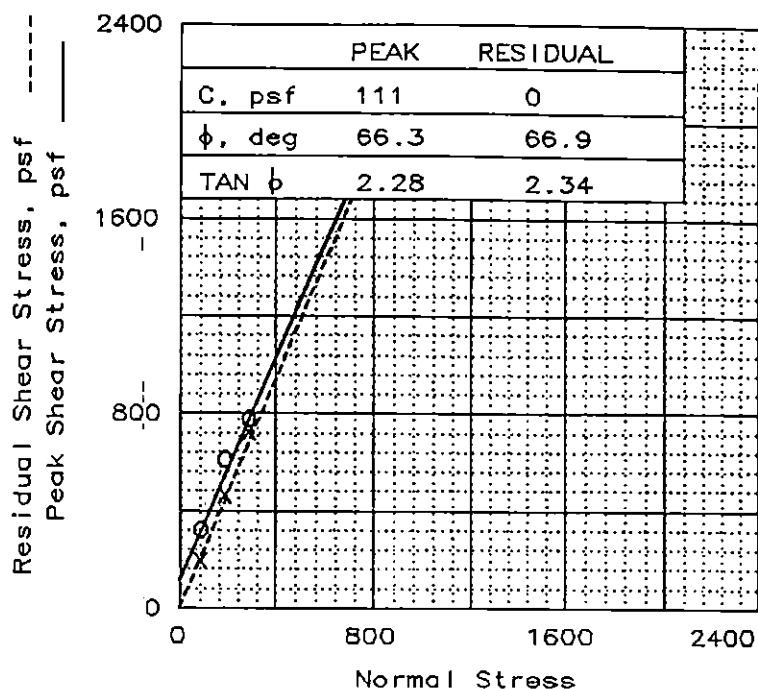
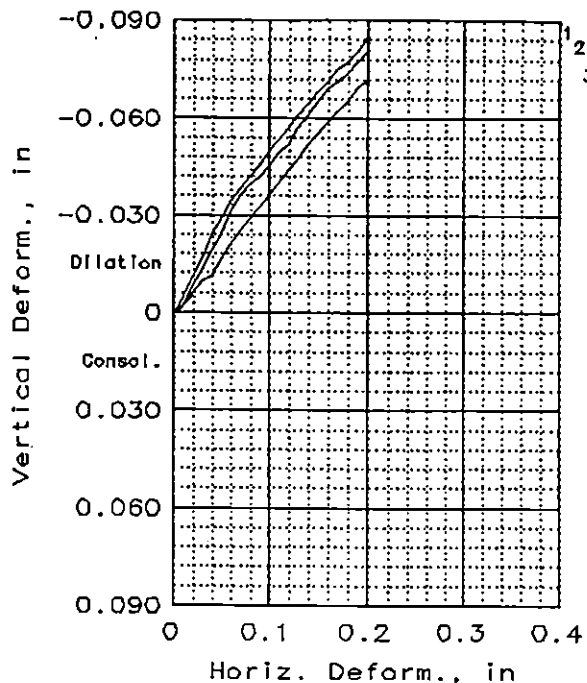
SAMPLE LOCATION: S-121

PROJ. NO.: 94S1749-01

DATE: 11-13-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	7.2	7.2	7.1
	DRY DENSITY, pcf	109.7	109.7	109.8
	SATURATION, %	37.6	37.6	37.0
	VOID RATIO	0.508	0.508	0.506
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	7.2	5.0	7.2
	DRY DENSITY, pcf	109.7	109.7	109.8
	SATURATION, %	37.6	26.0	37.7
	VOID RATIO	0.508	0.508	0.506
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		319	607	775
RESIDUAL SHEAR, psf		196	460	722
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA

SAMPLE TYPE: ALT. SELECT FILL
DESCRIPTION: CASHIN ASS.EAST

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS: ASTM D-3080

DIRECT SHEAR STRENGTH TEST

DRY CONDITION

SPECIFIC GRAVITY ASSUMED

FIG. NO. 1

CLIENT: TOWN OF HUNTINGTON

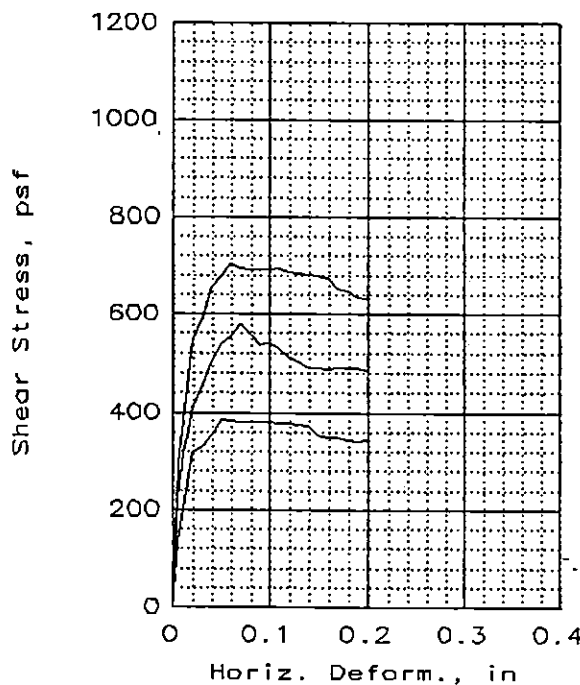
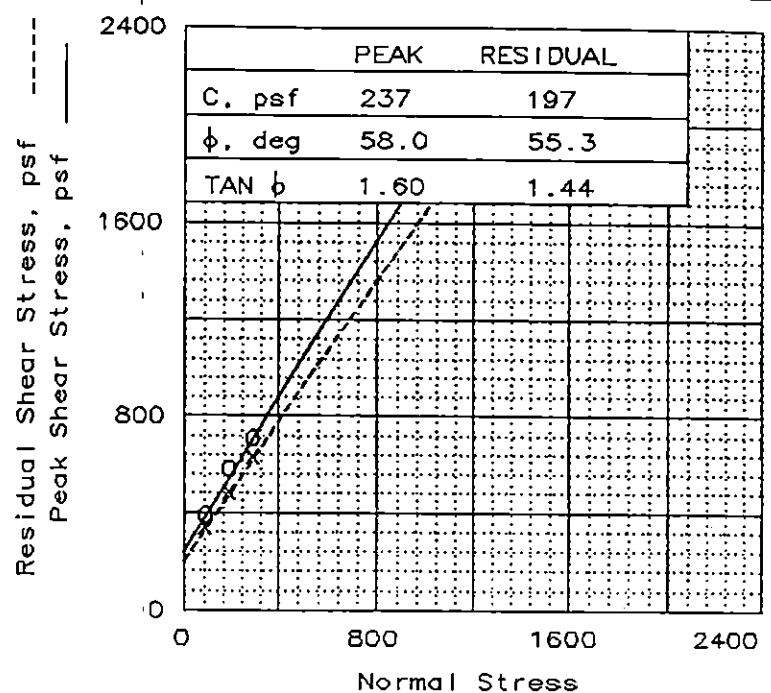
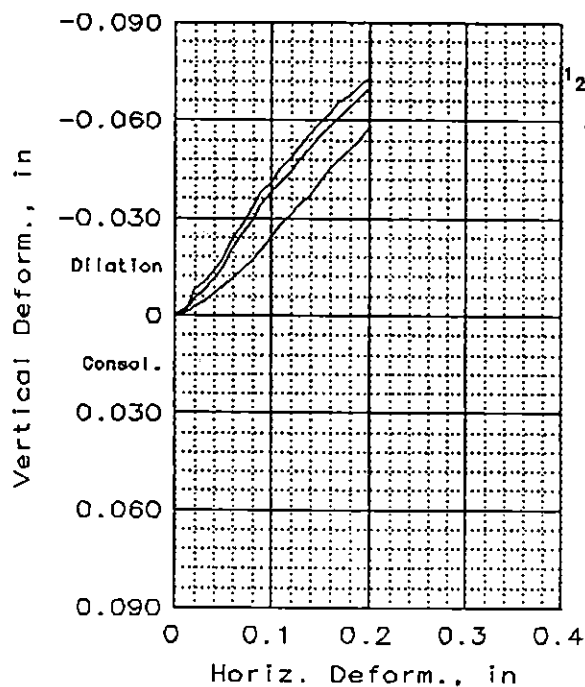
PROJECT: EAST NORTHPORT LANDFILL

SAMPLE LOCATION: S-122

PROJ. NO.: 94S1749-01 DATE: 10-13-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	7.7	7.7	7.7
	DRY DENSITY, pcf	107.5	107.5	107.5
	SATURATION, %	37.8	37.8	37.8
	VOID RATIO	0.539	0.539	0.539
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	7.7	7.7	7.7
	DRY DENSITY, pcf	107.5	107.5	107.5
	SATURATION, %	37.8	37.8	37.8
	VOID RATIO	0.539	0.539	0.539
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		386	579	706
RESIDUAL SHEAR, psf		343	484	631
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA

SAMPLE TYPE: ALT. SELECT FILL
DESCRIPTION: CASHIN ASS.EAST

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS: ASTM D-3080

DIRECT SHEAR STRENGTH TEST
DRY CONDITION

SPECIFIC GRAVITY ASSUMED

FIG. NO. 1

CLIENT: TOWN OF HUNTINGTON

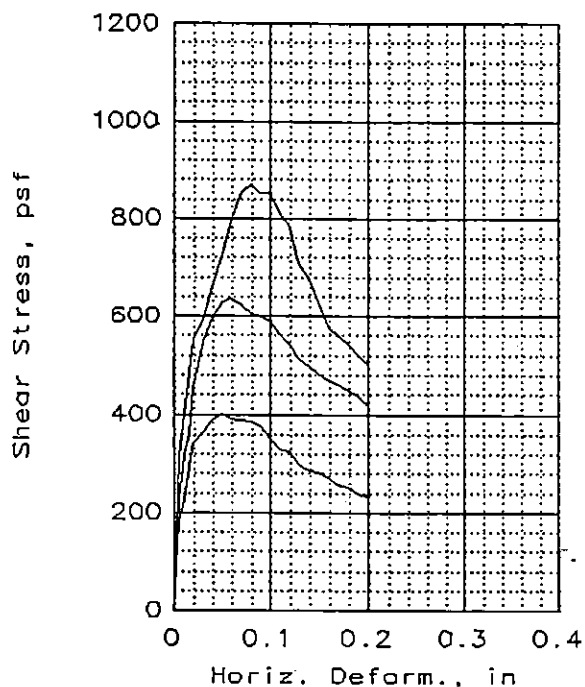
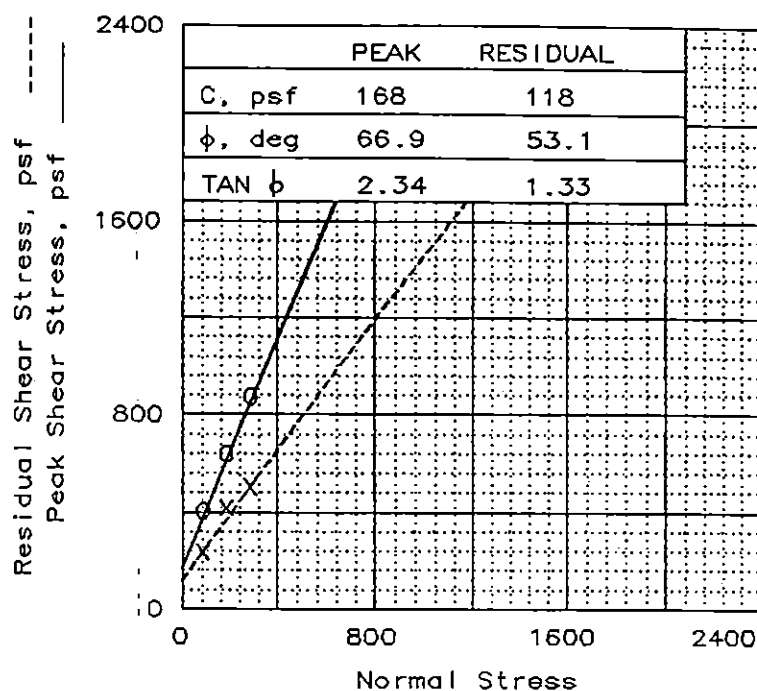
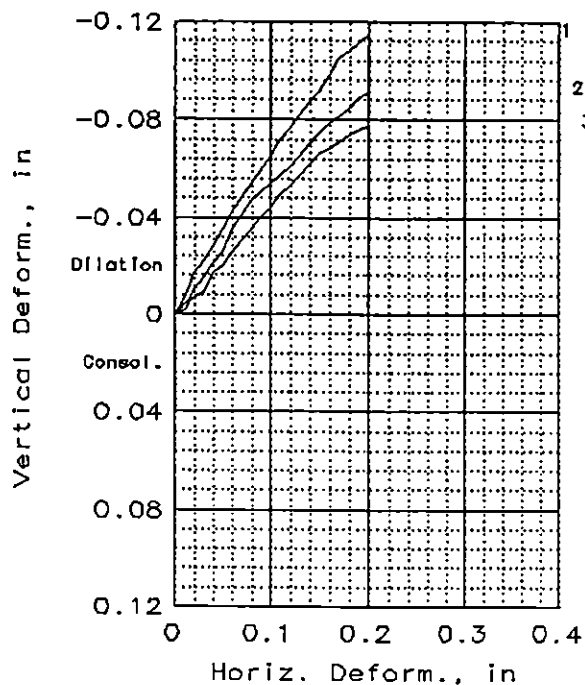
PROJECT: EAST NORTHPORT LANDFILL

SAMPLE LOCATION: S-123

PROJ. NO.: 94S1749-01 DATE: 10-13-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	7.4	7.4	7.4
	DRY DENSITY, pcf	110.4	110.4	110.4
	SATURATION, %	39.4	39.4	39.4
	VOID RATIO	0.499	0.499	0.499
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	7.4	7.4	7.4
	DRY DENSITY, pcf	110.4	110.4	110.4
	SATURATION, %	39.4	39.4	39.4
	VOID RATIO	0.499	0.499	0.499
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		402	637	871
RESIDUAL SHEAR, psf		235	416	501
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA
SAMPLE TYPE: ALT. SELECT FILL
DESCRIPTION: CASHIN ASS.EAST

LL= PL= PI=
SPECIFIC GRAVITY= 2.65
REMARKS: ASTM D-3080

DIRECT SHEAR STRENGTH TEST
DRY CONDITION
SPECIFIC GRAVITY ASSUMED
FIG. NO. 1

CLIENT: TOWN OF HUNTINGTON

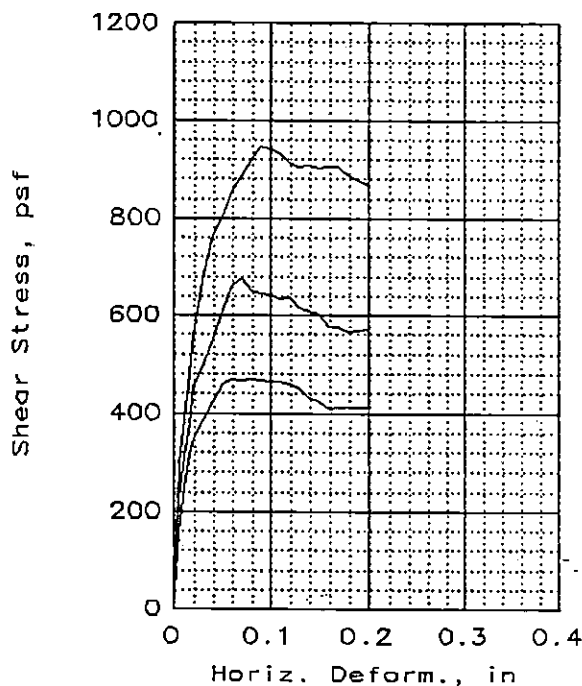
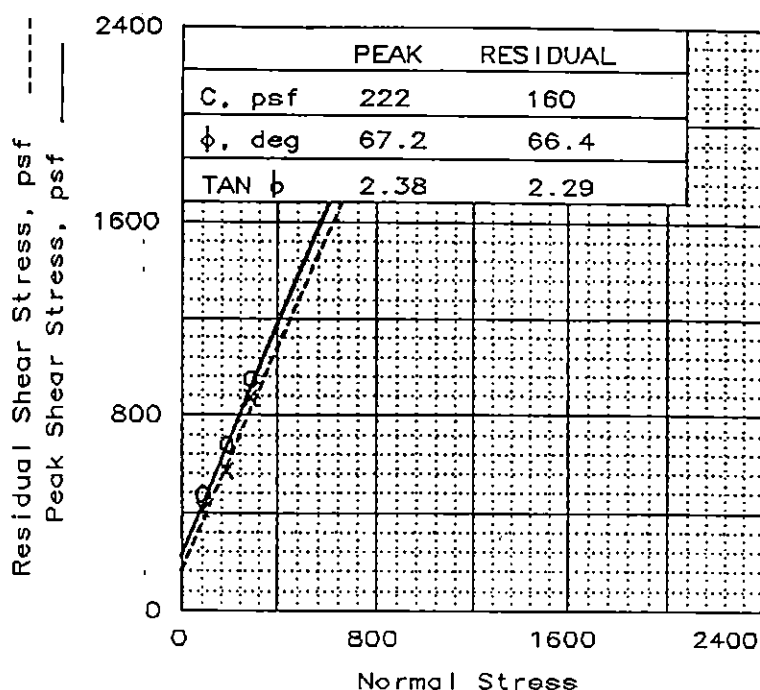
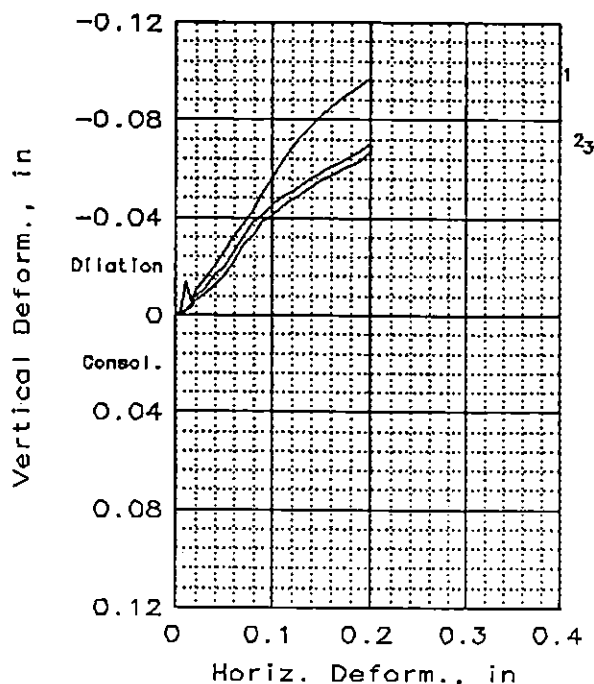
PROJECT: EAST NORTHPORT LANDFILL

SAMPLE LOCATION: S-124

PROJ. NO.: 94S1749-01 DATE: 11-13-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	6.8	6.8	6.8
	DRY DENSITY, pcf	111.2	111.2	111.2
	SATURATION, %	37.0	37.0	37.0
	VOID RATIO	0.487	0.487	0.487
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	6.8	6.8	6.8
	DRY DENSITY, pcf	111.2	111.2	111.2
	SATURATION, %	37.0	37.0	37.0
	VOID RATIO	0.487	0.487	0.487
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		470	676	946
RESIDUAL SHEAR, psf		411	573	869
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA

SAMPLE TYPE: ALT. SELECT FILL
DESCRIPTION: CASHIN ASS.EAST

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS: ASTM D-3080

DIRECT SHEAR STRENGTH TEST
DRY CONDITION

SPECIFIC GRAVITY ASSUMED

FIG. NO. 1

CLIENT: TOWN OF HUNTINGTON

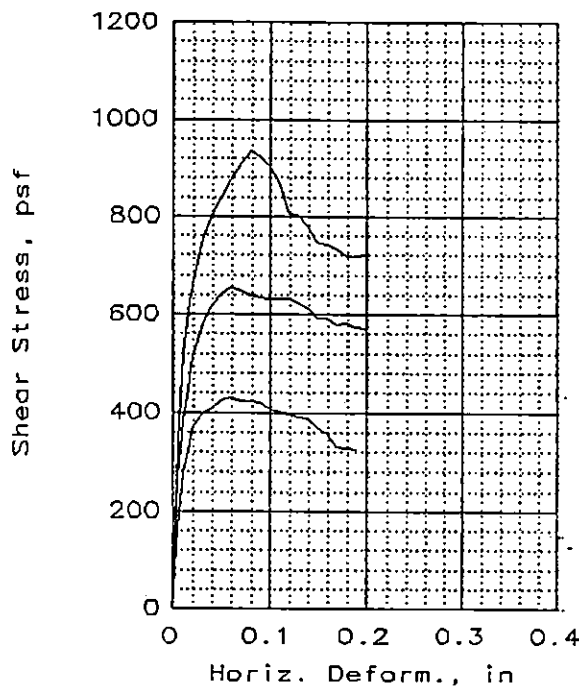
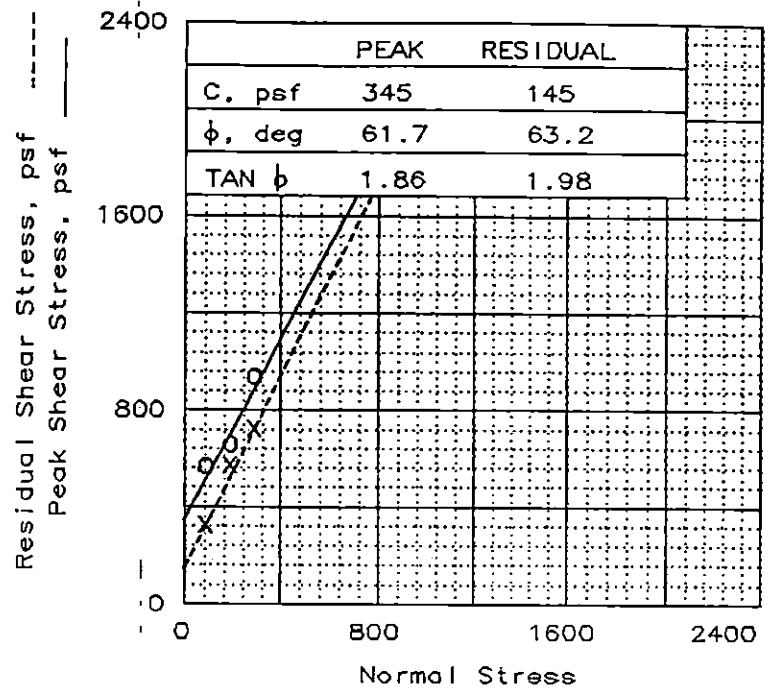
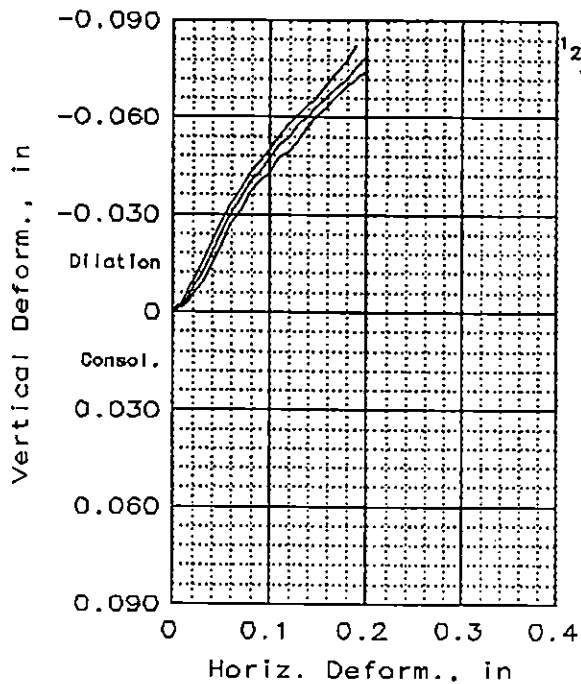
PROJECT: EAST NORTHPORT LANDFILL

SAMPLE LOCATION: S-125

PROJ. NO.: 94S1749-01 DATE: 11-13-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	7.5	7.5	7.5
	DRY DENSITY, pcf	110.9	110.9	110.9
	SATURATION, %	40.4	40.4	40.4
	VOID RATIO	0.492	0.492	0.492
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	7.5	7.5	7.5
	DRY DENSITY, pcf	110.9	110.9	110.9
	SATURATION, %	40.4	40.4	40.4
	VOID RATIO	0.492	0.492	0.492
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		563	655	935
RESIDUAL SHEAR, psf		326	573	722
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA
 SAMPLE TYPE:
 DESCRIPTION: S-126
 LL= PL= PI=
 SPECIFIC GRAVITY= 2.65
 REMARKS:

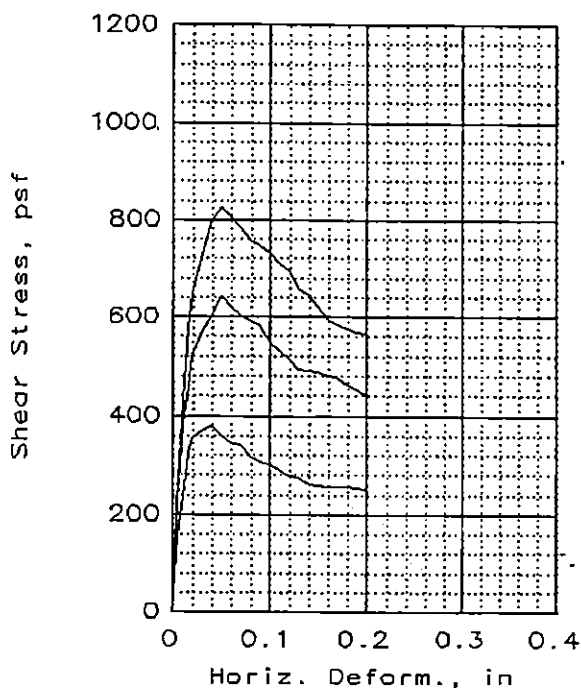
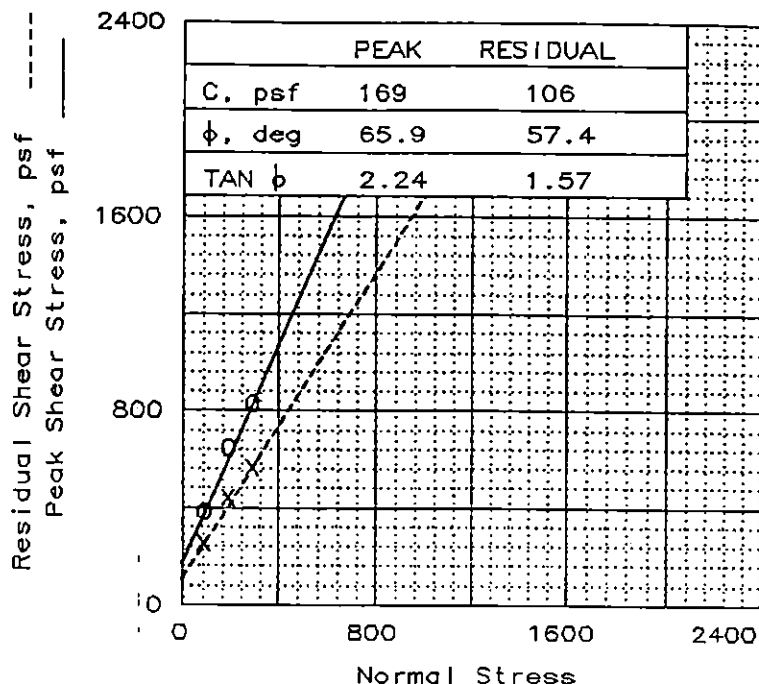
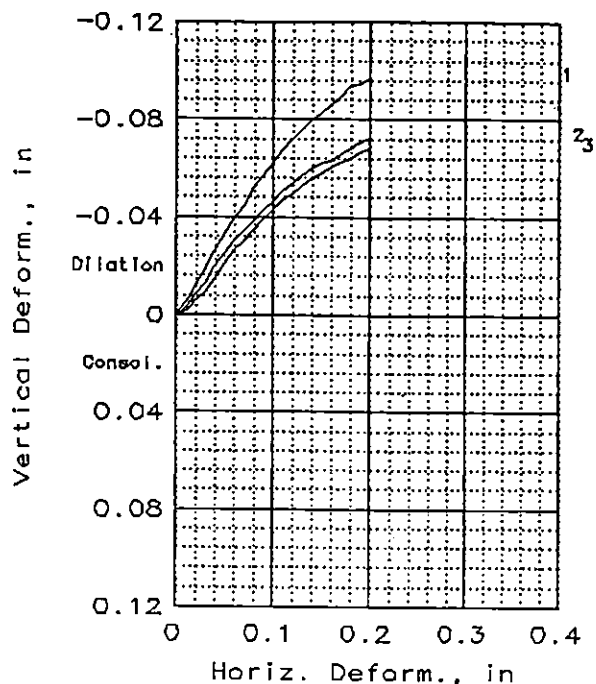
CLIENT: CASHIN ASSOCIATES
 PROJECT: NORTHPORT LANDFILL
 SAMPLE LOCATION:

PROJ. NO.: 95S1749-11 DATE: 11-17-95

DIRECT SHEAR TEST REPORT.

J & L TESTING CO., INC.

FIG. NO.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	7.2	7.2	7.2
	DRY DENSITY, pcf	109.6	109.6	109.6
	SATURATION, %	37.5	37.5	37.5
	VOID RATIO	0.509	0.509	0.509
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	7.2	7.2	7.2
	DRY DENSITY, pcf	109.6	109.6	109.6
	SATURATION, %	37.5	37.5	37.5
	VOID RATIO	0.509	0.509	0.509
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		380	643	827
RESIDUAL SHEAR, psf		252	440	565
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA

SAMPLE TYPE:

DESCRIPTION: S-127

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS:

CLIENT: CASHIN ASSOCIATES

PROJECT: EAST NORTHPORT LANDFILL

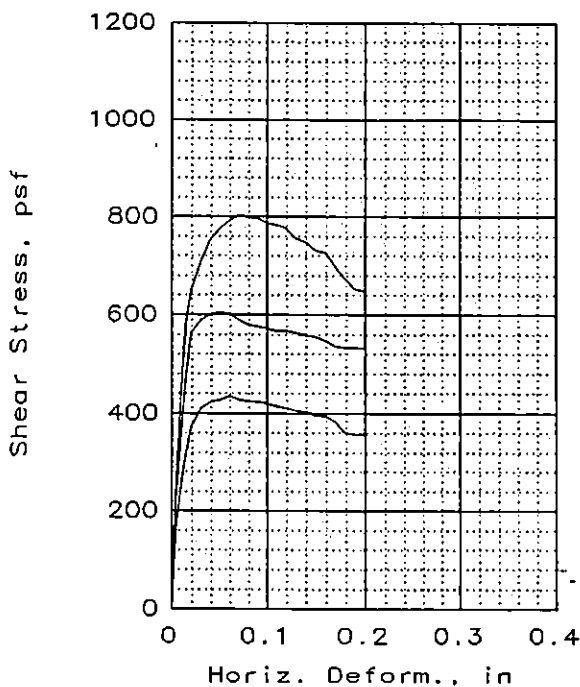
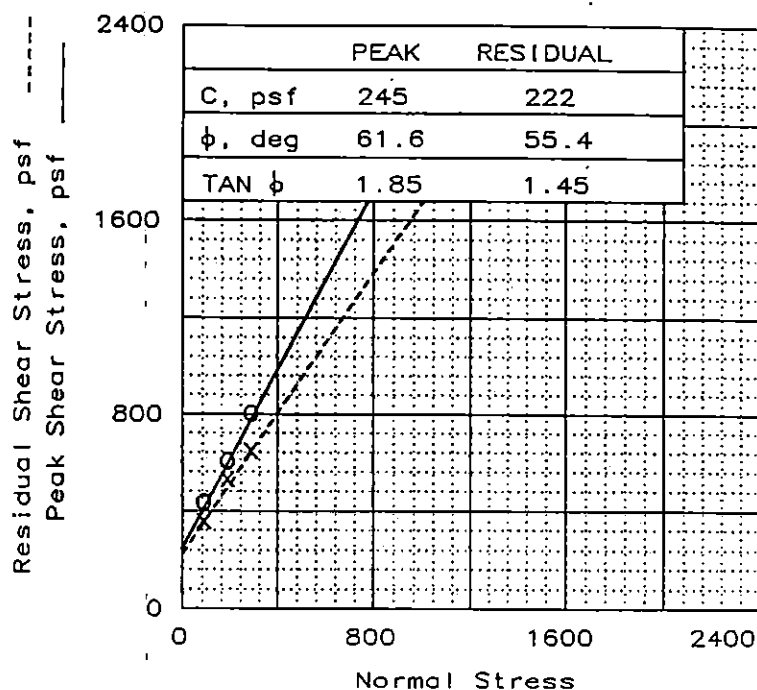
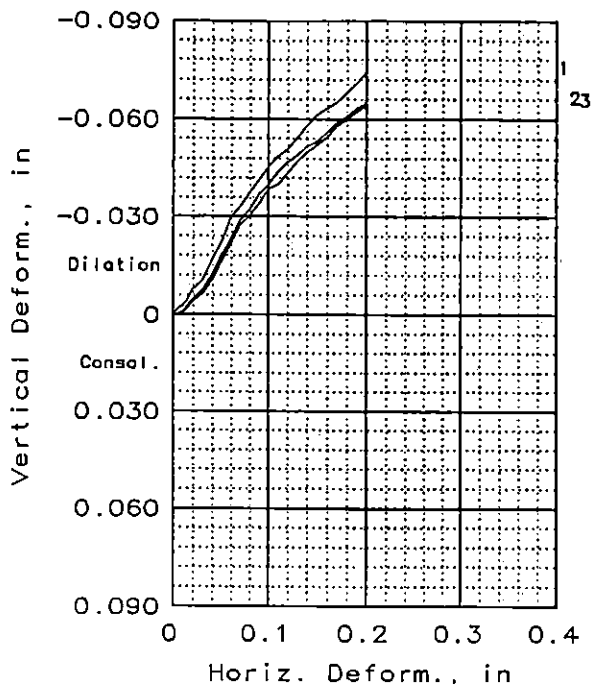
SAMPLE LOCATION:

PROJ. NO.: 95S1749-11

DATE: 11-14-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	6.8	6.8	6.8
	DRY DENSITY, pcf	110.9	110.9	110.9
	SATURATION, %	36.7	36.7	36.7
	VOID RATIO	0.491	0.491	0.491
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	6.8	6.8	6.8
	DRY DENSITY, pcf	110.9	110.9	110.9
	SATURATION, %	36.7	36.7	36.7
	VOID RATIO	0.491	0.491	0.491
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		434	606	804
RESIDUAL SHEAR, psf		358	531	648
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA

SAMPLE TYPE:

DESCRIPTION: S-128

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS:

CLIENT: CASHIN ASSOCIATES

PROJECT:

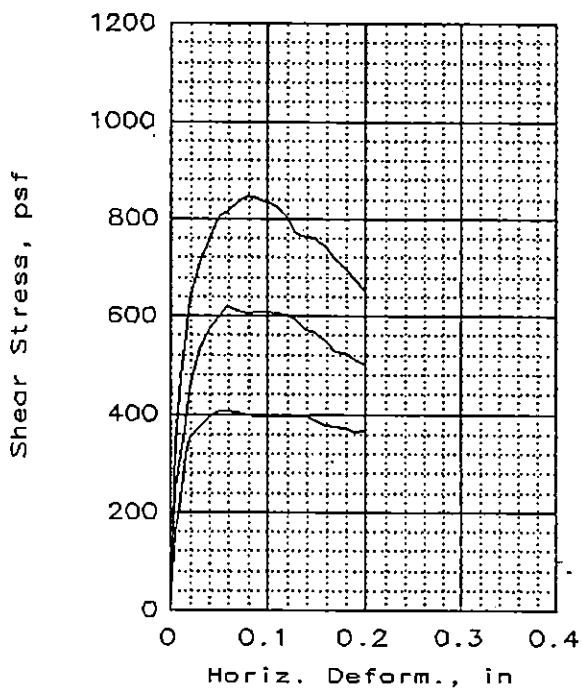
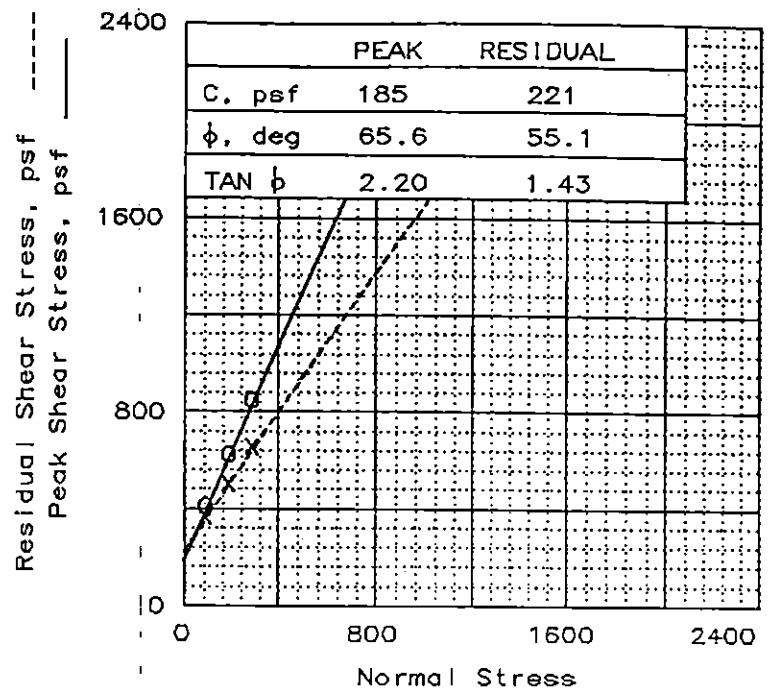
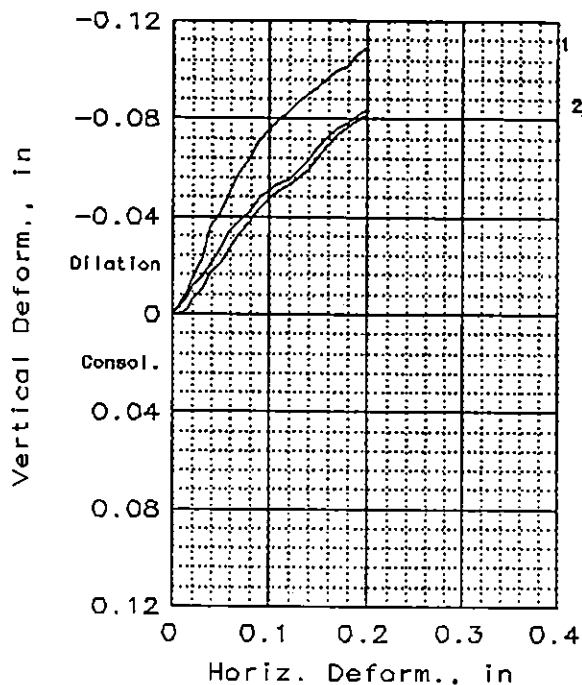
SAMPLE LOCATION: EAST NORTHPORT LANDFILL

PROJ. NO.: 95S1749-11 DATE: 11-20-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.

FIG. NO. 1



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	7.5	7.5	7.5
	DRY DENSITY, pcf	110.7	110.7	110.7
	SATURATION, %	40.2	40.2	40.2
	VOID RATIO	0.495	0.495	0.495
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	7.5	7.5	7.5
	DRY DENSITY, pcf	110.7	110.7	110.7
	SATURATION, %	40.2	40.2	40.2
	VOID RATIO	0.495	0.495	0.495
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		407	620	846
RESIDUAL SHEAR, psf		367	502	653
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA

SAMPLE TYPE:

DESCRIPTION: S-129

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS:

CLIENT: CASHIN ASSOCIATES

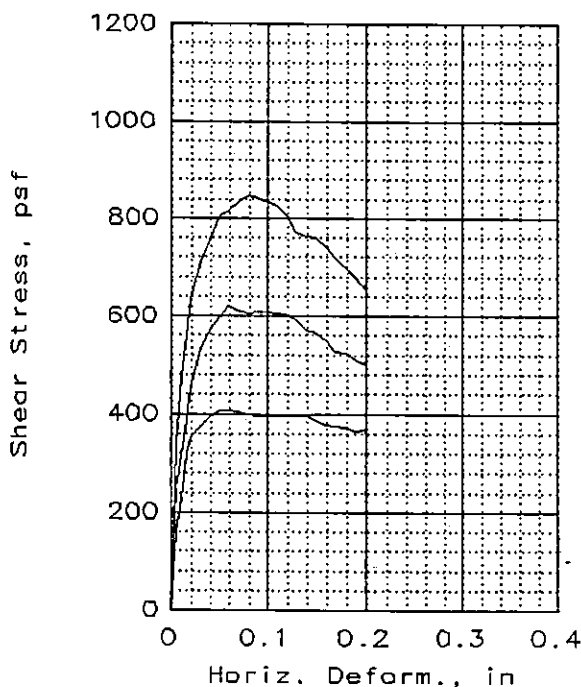
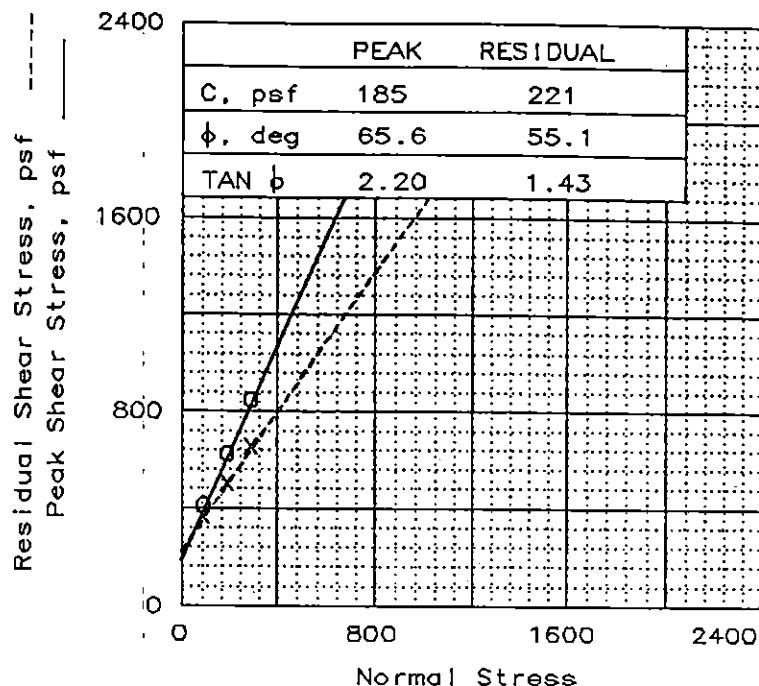
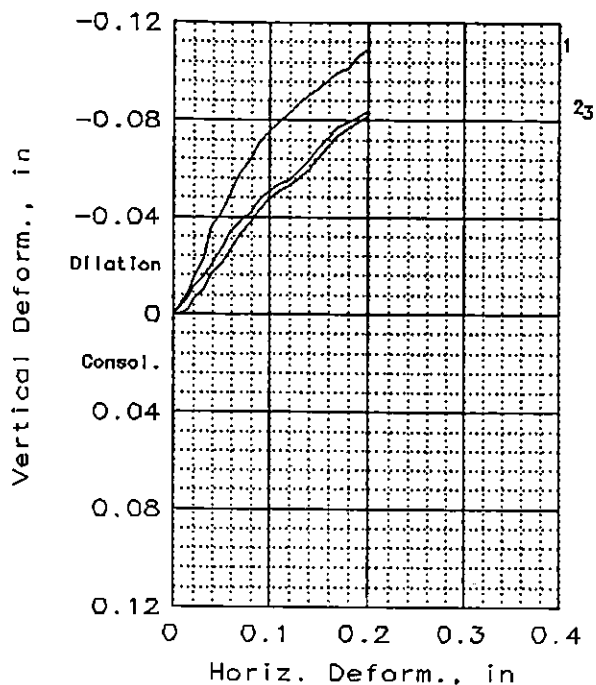
PROJECT: EAST NORTHPORT LANDFILL

SAMPLE LOCATION:

PROJ. NO.: 95S1749-11 DATE: 11-20-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	7.6	7.6	7.6
	DRY DENSITY, pcf	110.5	110.5	110.5
	SATURATION, %	40.5	40.5	40.5
	VOID RATIO	0.498	0.498	0.498
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	7.6	7.6	7.6
	DRY DENSITY, pcf	110.5	110.5	110.5
	SATURATION, %	40.5	40.5	40.5
	VOID RATIO	0.498	0.498	0.498
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		407	620	846
RESIDUAL SHEAR, psf		367	502	653
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA

SAMPLE TYPE:

DESCRIPTION: S-130

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS:

CLIENT: CASHIN ASSOCIATES

PROJECT: NORTHPORT LANDFILL

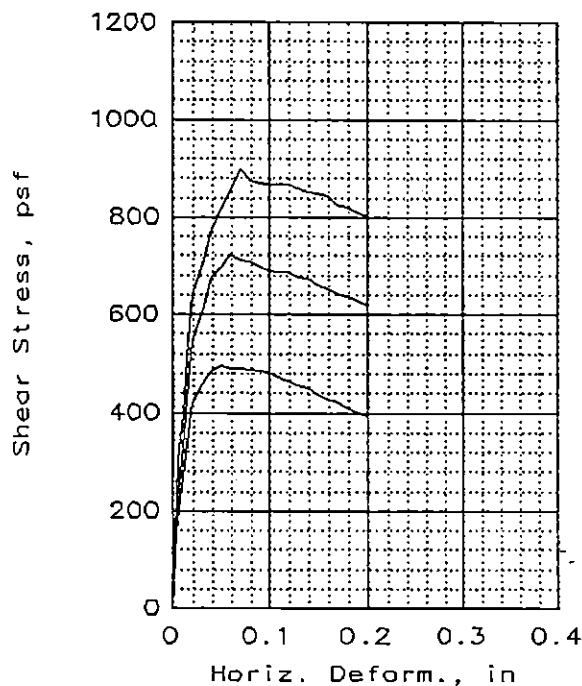
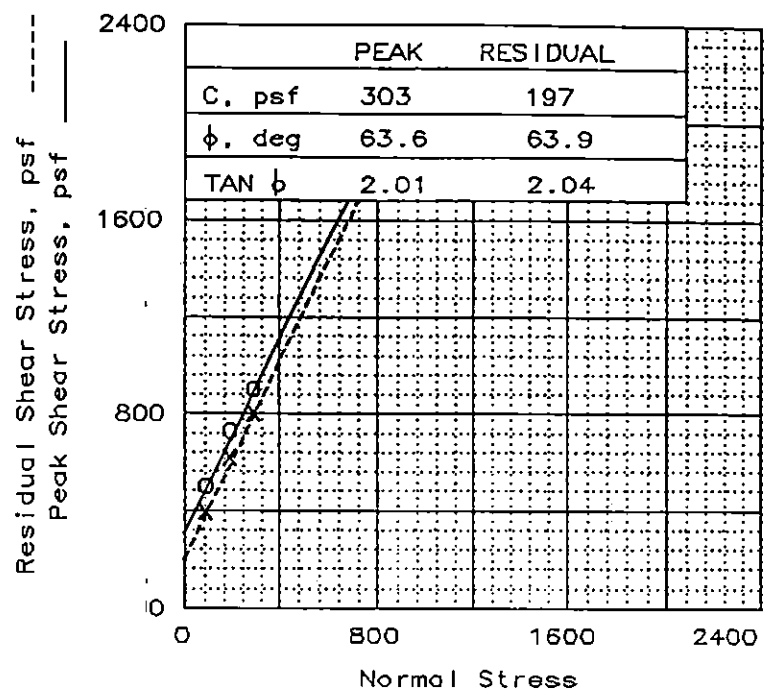
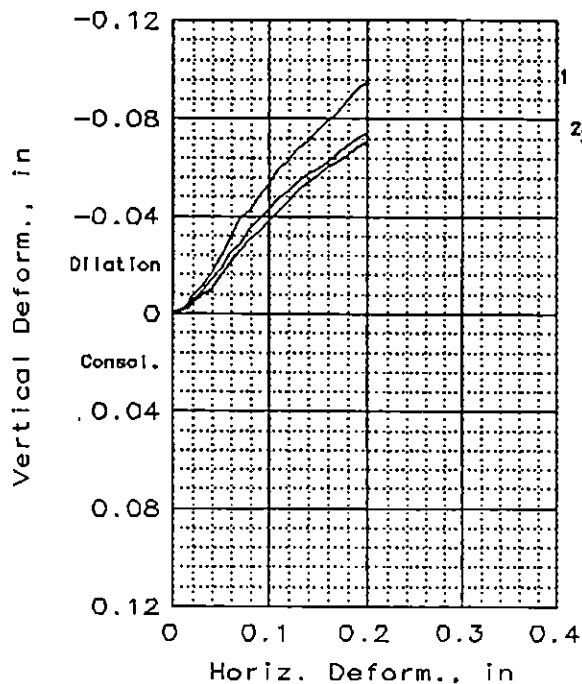
SAMPLE LOCATION:

PROJ. NO.: 95S1749-11 DATE: 11-17-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.

FIG. NO.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	7.6	7.6	7.6
	DRY DENSITY, pcf	109.6	109.6	109.6
	SATURATION, %	39.6	39.6	39.6
	VOID RATIO	0.509	0.509	0.509
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	7.6	7.6	7.6
	DRY DENSITY, pcf	109.6	109.6	109.6
	SATURATION, %	39.6	39.6	39.6
	VOID RATIO	0.509	0.509	0.509
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		495	725	898
RESIDUAL SHEAR, psf		394	619	801
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA

SAMPLE TYPE:

DESCRIPTION:

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS:

CLIENT: CASHIN ASSOCIATES

PROJECT: EAST NORTHPORT LANDFILL

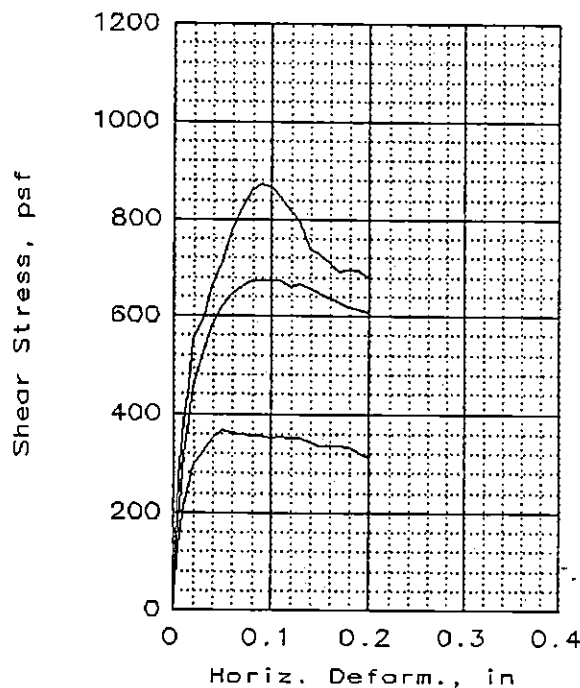
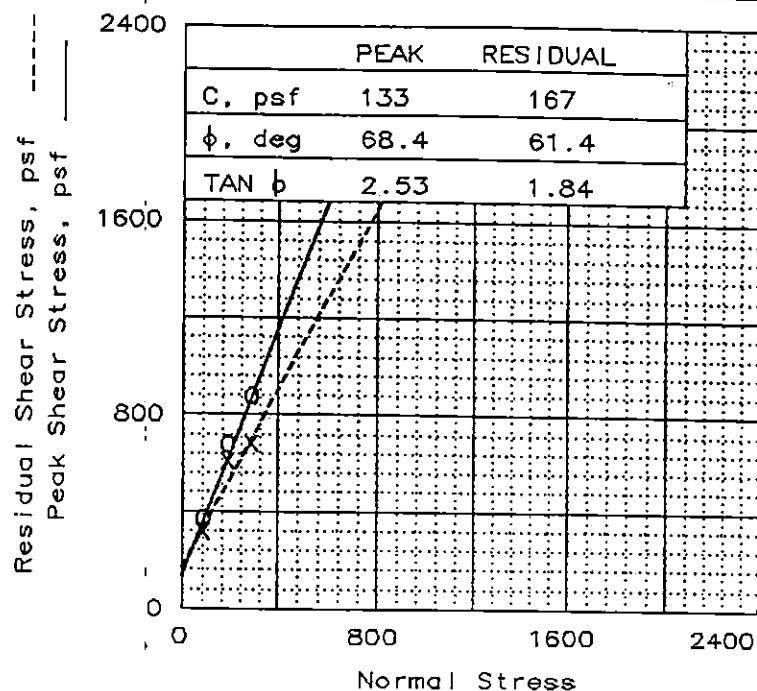
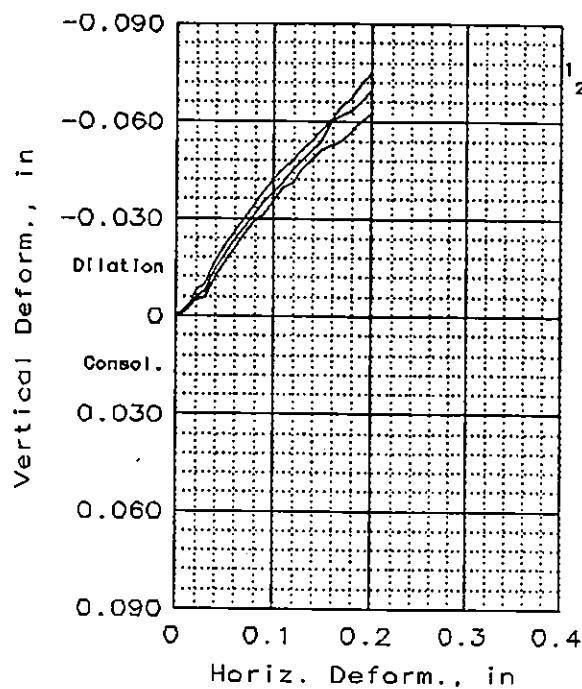
SAMPLE LOCATION: S-131

PROJ. NO.: 95S1749-12 DATE: 11-21-953

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.

FIG. NO.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	7.7	7.7	7.7
	DRY DENSITY, pcf	109.2	109.2	109.2
	SATURATION, %	39.7	39.7	39.7
	VOID RATIO	0.515	0.515	0.515
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	7.7	7.7	7.7
	DRY DENSITY, pcf	109.2	109.2	109.2
	SATURATION, %	39.7	39.7	39.7
	VOID RATIO	0.515	0.515	0.515
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		368	675	873
RESIDUAL SHEAR, psf		313	609	680
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA

SAMPLE TYPE:

DESCRIPTION:

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS:

CLIENT: CASHIN ASSOCIATES

PROJECT: EAST NORTHPORT LANDFILL

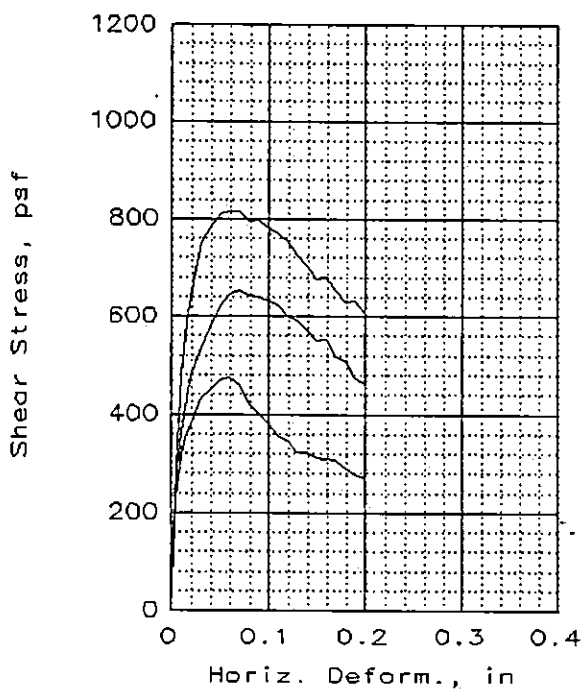
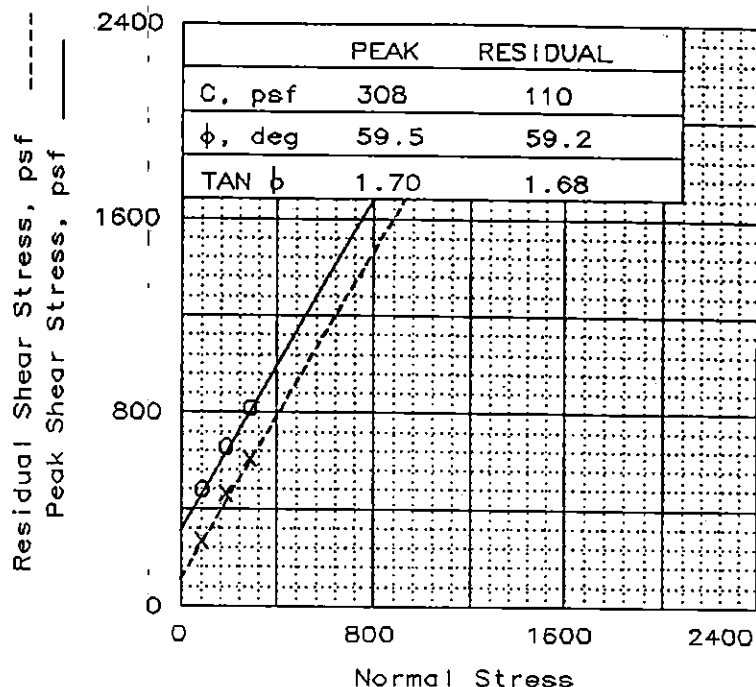
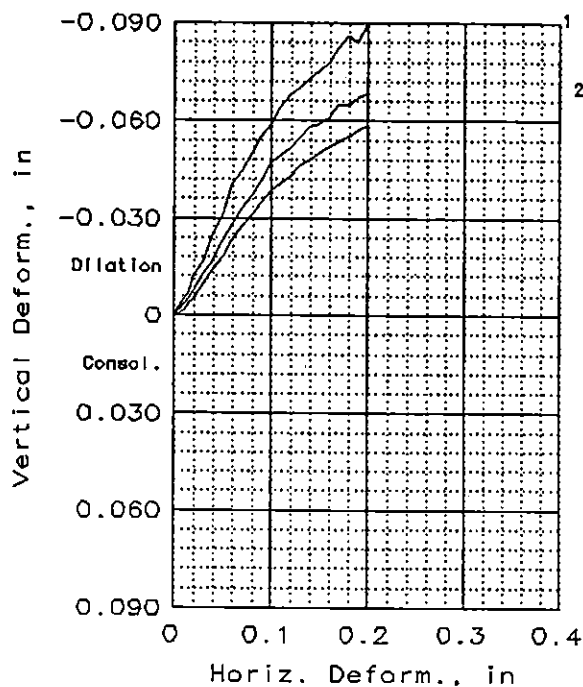
SAMPLE LOCATION: S-132

PROJ. NO.: 95S1749-12 DATE: 11-21-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.

FIG. NO.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	6.9	6.9	6.9
	DRY DENSITY, pcf	111.3	111.3	111.3
	SATURATION, %	37.6	37.6	37.6
	VOID RATIO	0.486	0.486	0.486
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	6.9	6.9	6.9
	DRY DENSITY, pcf	111.3	111.3	111.3
	SATURATION, %	37.6	37.6	37.6
	VOID RATIO	0.486	0.486	0.486
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		475	653	815
RESIDUAL SHEAR, psf		269	462	605
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA

SAMPLE TYPE:

DESCRIPTION:

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS:

CLIENT: CASHIN ASSOCIATES

PROJECT: EAST NORTHPORT LANDFILL

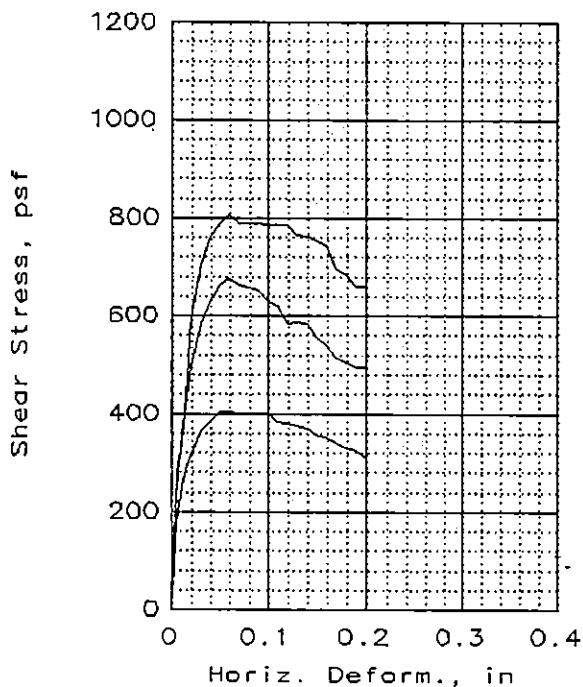
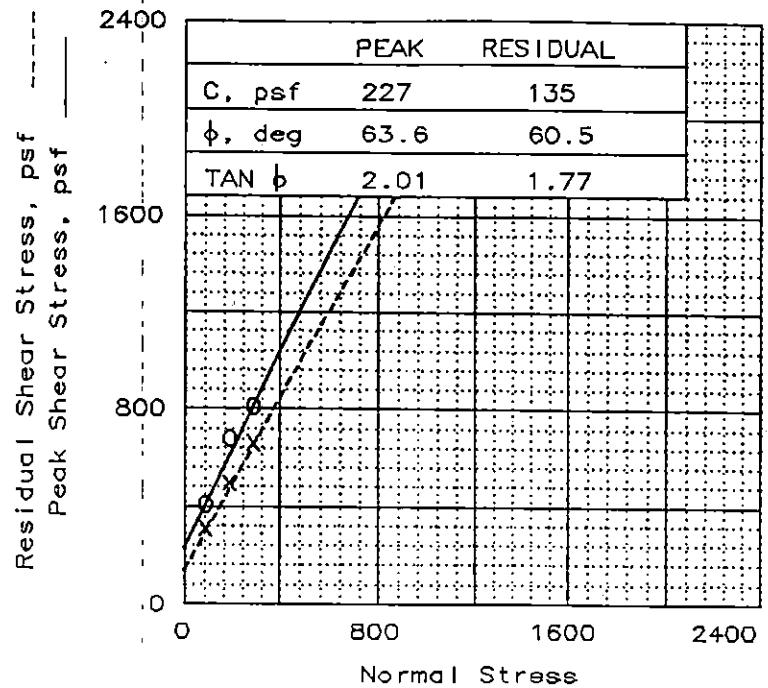
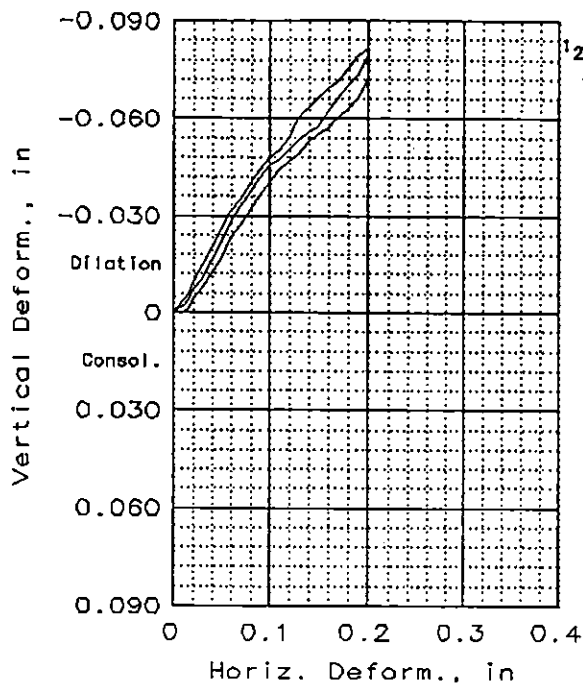
SAMPLE LOCATION: S-133

PROJ. NO.: 95S1749-12 DATE: 11-21-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.

FIG. NO.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	7.7	7.7	7.7
	DRY DENSITY, pcf	109.6	109.6	109.6
	SATURATION, %	40.0	40.0	40.0
	VOID RATIO	0.509	0.509	0.509
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	7.7	7.7	7.7
	DRY DENSITY, pcf	109.6	109.6	109.6
	SATURATION, %	40.0	40.0	40.0
	VOID RATIO	0.509	0.509	0.509
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		405	675	808
RESIDUAL SHEAR, psf		308	495	662
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA

SAMPLE TYPE:

DESCRIPTION:

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS:

CLIENT: CASHIN ASSOCIATES

PROJECT: EAST NORTHPORT LANDFILL

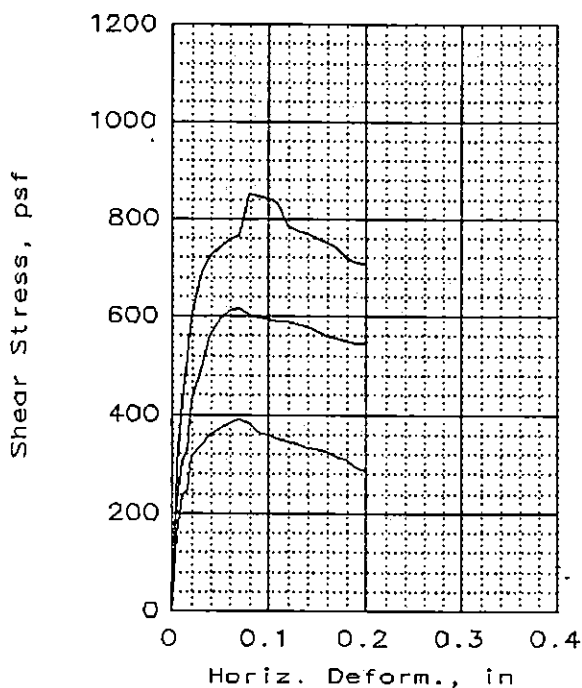
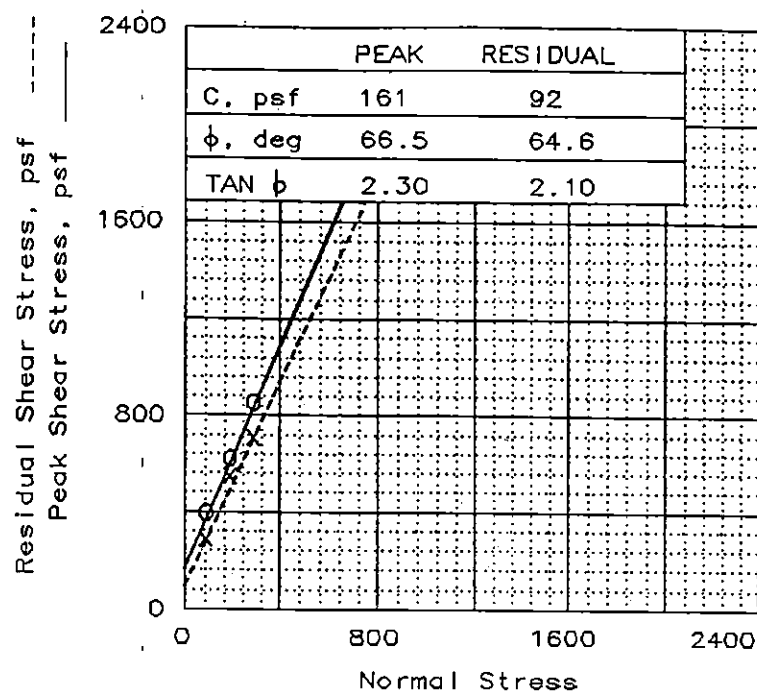
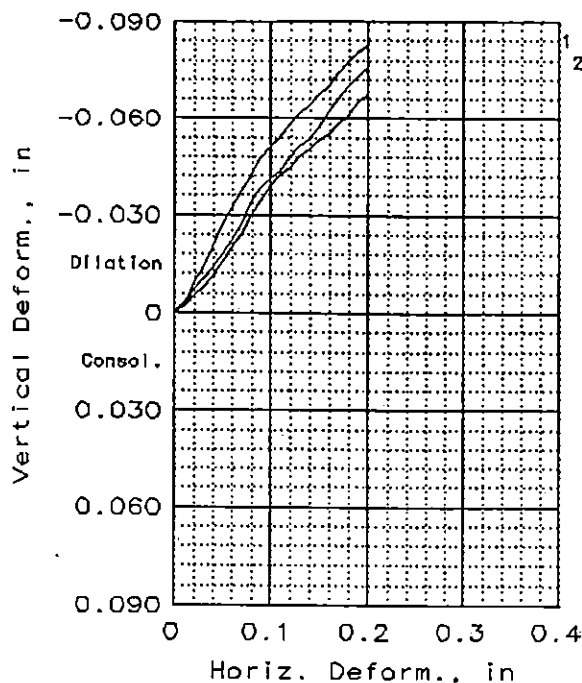
SAMPLE LOCATION: S-134

PROJ. NO.: 95S1749-12 DATE: 11-21-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.

FIG. NO.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	6.8	6.8	6.8
	DRY DENSITY, pcf	110.6	110.6	110.6
	SATURATION, %	36.5	36.5	36.5
	VOID RATIO	0.495	0.495	0.495
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	6.8	6.8	7.0
	DRY DENSITY, pcf	110.6	110.6	110.6
	SATURATION, %	36.5	36.5	37.2
	VOID RATIO	0.495	0.495	0.495
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		392	617	851
RESIDUAL SHEAR, psf		286	545	707
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA

SAMPLE TYPE:

DESCRIPTION:

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS:

CLIENT: CASHIN ASSOCIATES

PROJECT: EAST NORTHPORT LANDFILL

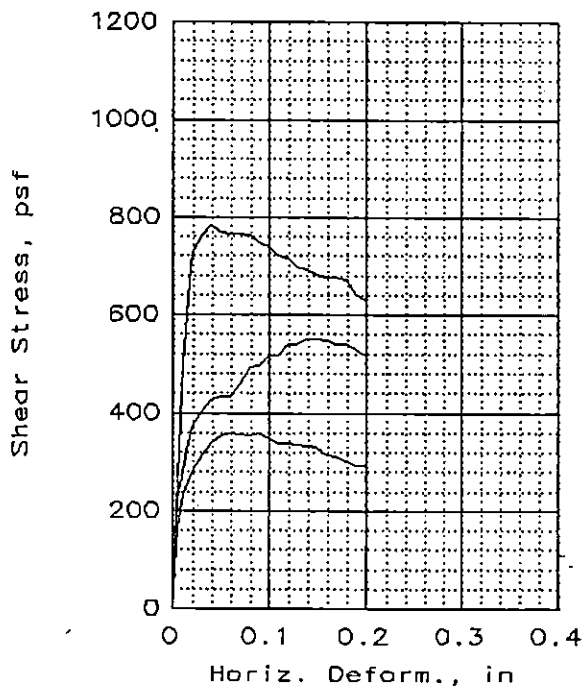
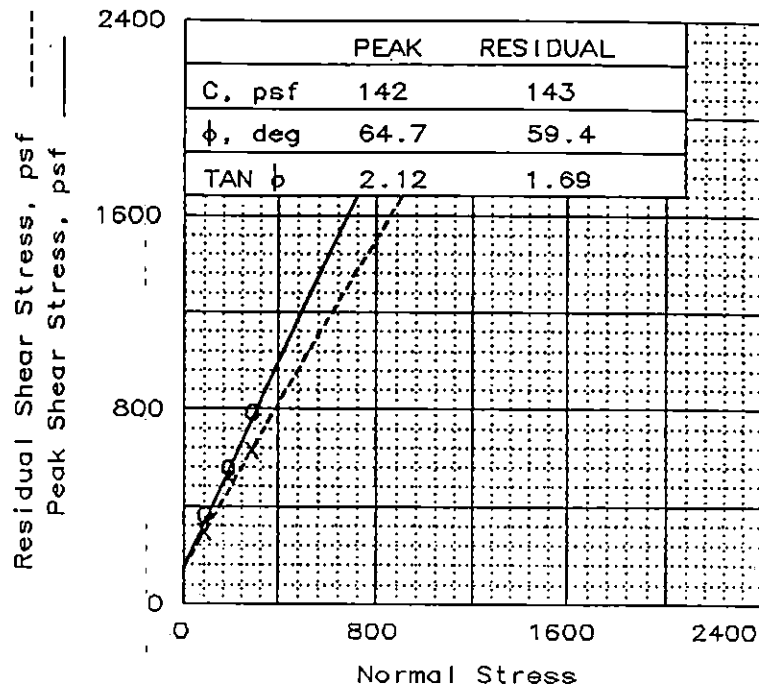
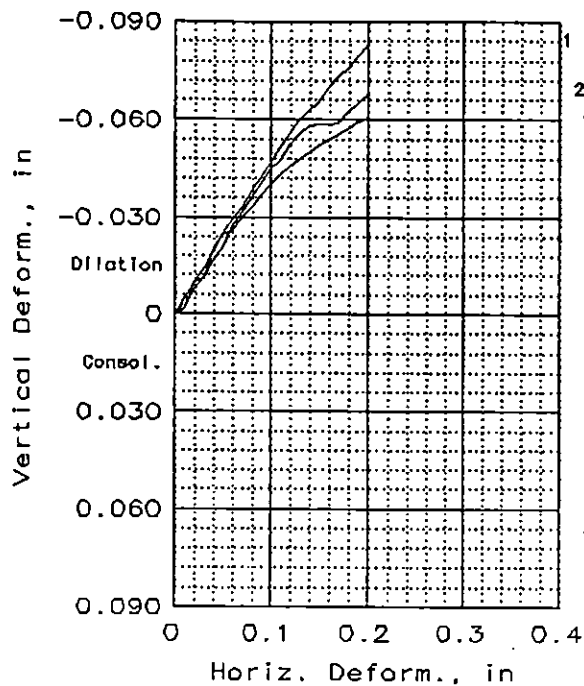
SAMPLE LOCATION: S-135

PROJ. NO.: 95S1749-12 DATE: 11-21-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.

FIG. NO.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	7.6	7.6	7.6
	DRY DENSITY, pcf	108.8	108.8	108.8
	SATURATION, %	38.7	38.7	38.7
	VOID RATIO	0.520	0.520	0.520
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	7.6	7.6	7.6
	DRY DENSITY, pcf	108.8	108.8	108.8
	SATURATION, %	38.7	38.7	38.7
	VOID RATIO	0.520	0.520	0.520
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		360	551	783
RESIDUAL SHEAR, psf		293	518	630
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA

SAMPLE TYPE:
DESCRIPTION:

LL= PL= PI=
SPECIFIC GRAVITY= 2.65
REMARKS:

CLIENT: CASHIN ASSOCIATES

PROJECT: EAST NORTHPORT LANDFILL

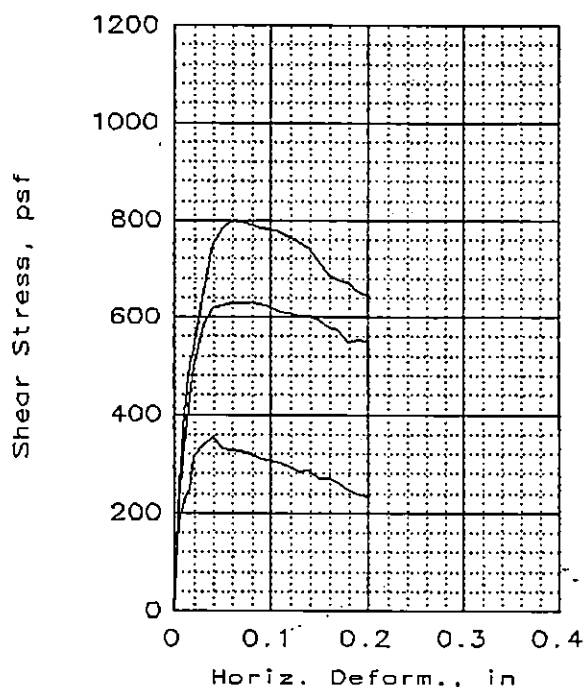
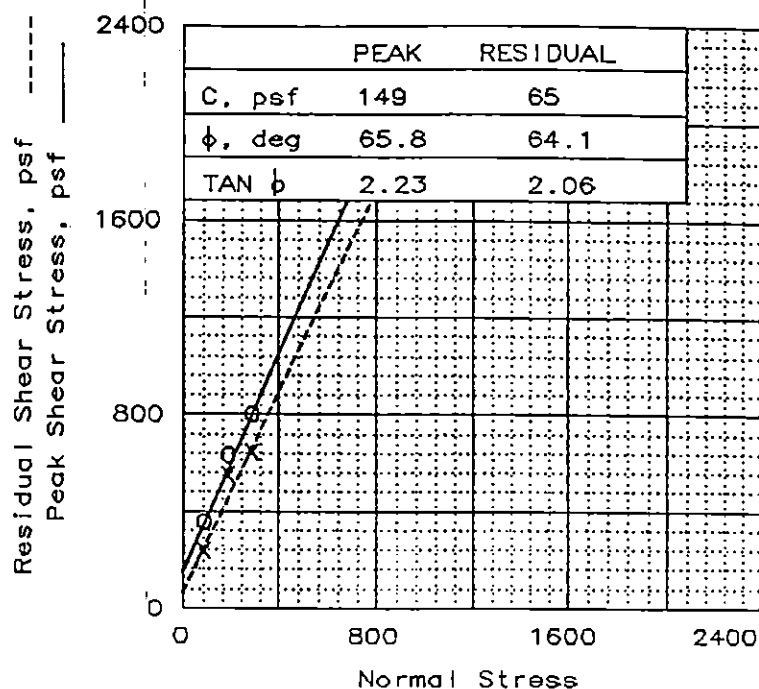
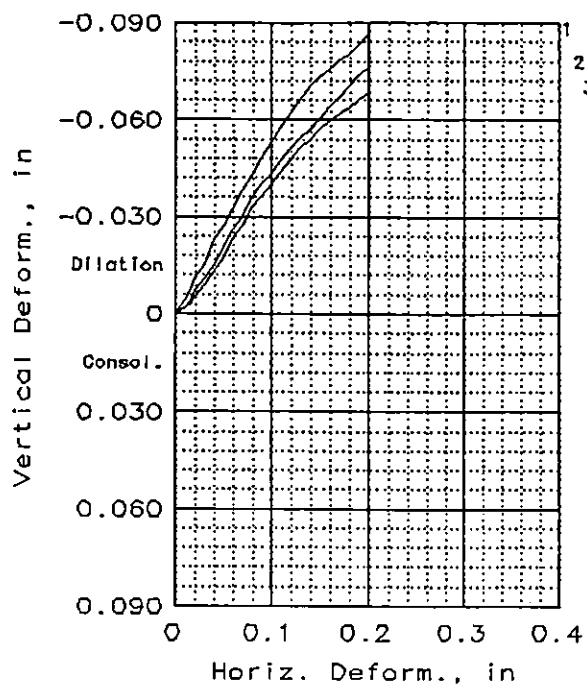
SAMPLE LOCATION: S-136

PROJ. NO.: 95S1749-12 DATE: 11-21-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.

FIG. NO.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	7.5	7.5	7.5
	DRY DENSITY, pcf	109.2	109.2	109.2
	SATURATION, %	38.6	38.6	38.6
	VOID RATIO	0.515	0.515	0.515
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	7.5	7.5	7.5
	DRY DENSITY, pcf	109.2	109.2	109.2
	SATURATION, %	38.6	38.6	38.6
	VOID RATIO	0.515	0.515	0.515
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		353	630	799
RESIDUAL SHEAR, psf		234	551	646
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA

SAMPLE TYPE:
DESCRIPTION:

LL= PL= PI=
SPECIFIC GRAVITY= 2.65
REMARKS:

FIG. NO.

CLIENT: CASHIN ASSOCIATES

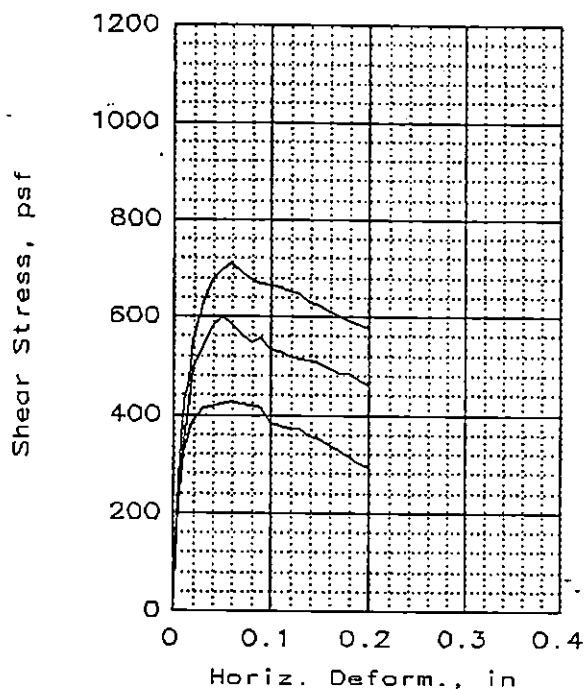
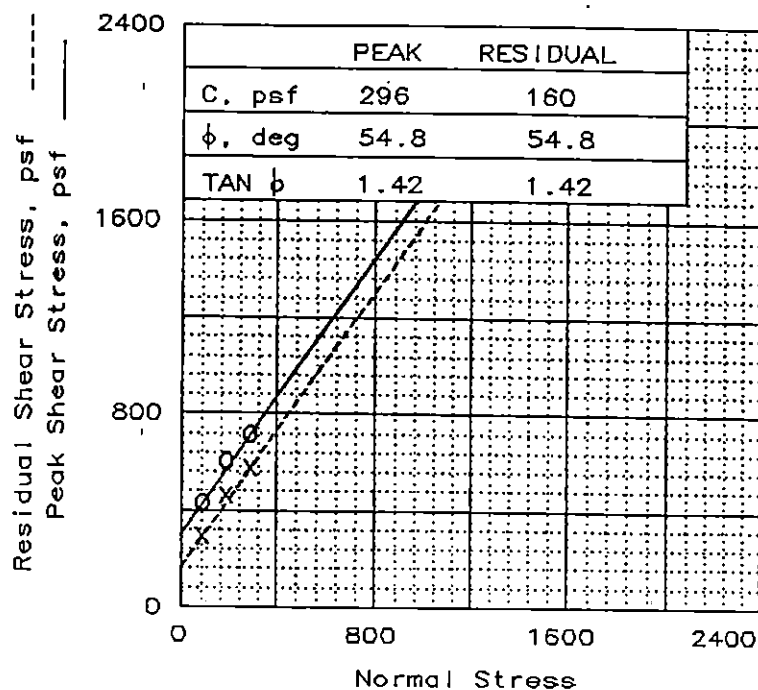
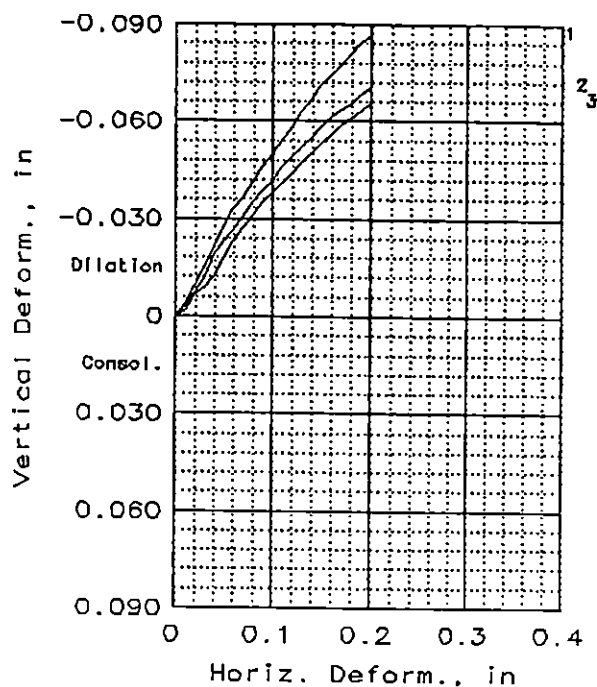
PROJECT: EAST NORTHPORT LANDFILL

SAMPLE LOCATION: S-137

PROJ. NO.: 95S1749-12 DATE: 11-22-953

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	7.8	7.8	7.8
	DRY DENSITY, pcf	108.7	108.7	108.7
	SATURATION, %	39.7	39.7	39.7
	VOID RATIO	0.522	0.522	0.522
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	7.8	7.8	7.8
	DRY DENSITY, pcf	108.7	108.7	108.7
	SATURATION, %	39.7	39.7	39.7
	VOID RATIO	0.522	0.522	0.522
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		428	601	711
RESIDUAL SHEAR, psf		293	461	576
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA

SAMPLE TYPE:

DESCRIPTION:

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS:

CLIENT: CASHIN ASSOCIATES

PROJECT: EAST NORTHPORT LANDFILL

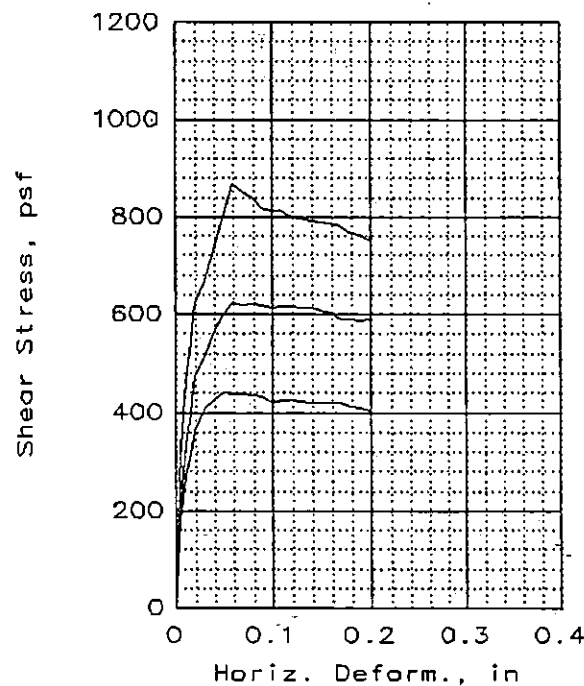
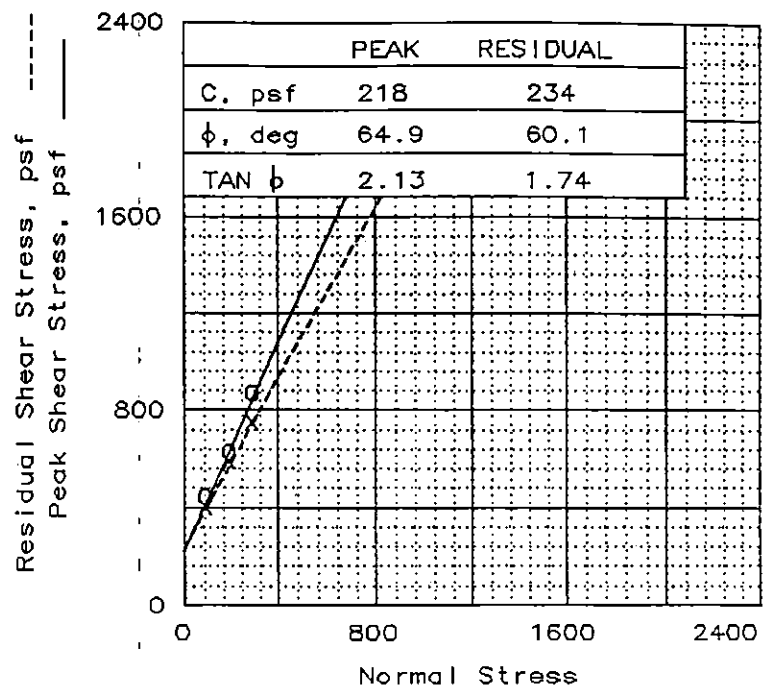
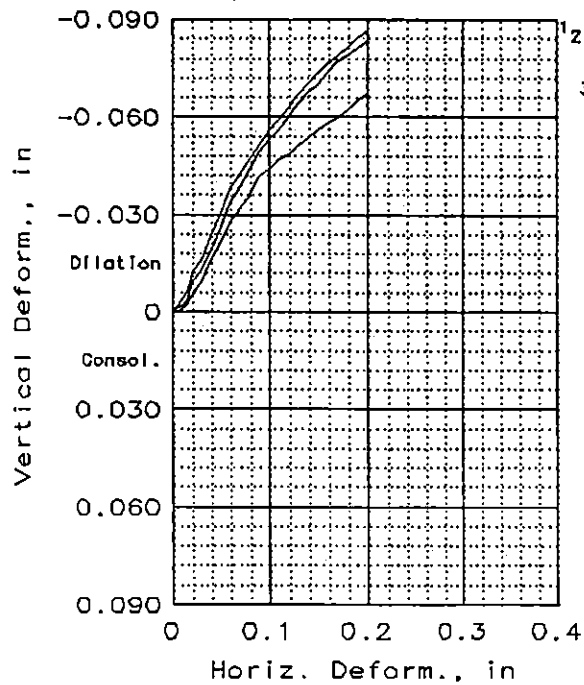
SAMPLE LOCATION: S-138

PROJ. NO.: 95S1749-12 DATE: 11-22-953

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.

FIG. NO.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	7.4	7.4	7.4
	DRY DENSITY, pcf	110.6	110.6	110.6
	SATURATION, %	39.6	39.6	39.6
	VOID RATIO	0.496	0.496	0.496
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	7.4	7.4	7.4
	DRY DENSITY, pcf	110.6	110.6	110.6
	SATURATION, %	39.6	39.6	39.6
	VOID RATIO	0.496	0.496	0.496
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		441	625	867
RESIDUAL SHEAR, psf		404	590	751
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA
 SAMPLE TYPE: BULK
 DESCRIPTION: ALT. SELECT FILL
 LL= PL= PI=
 SPECIFIC GRAVITY= 2.65
 REMARKS: SAMPLE TESTED AT 85%
 MODIFIED PROCTOR DENSITY AND
 OPTIMUM MOISTURE CONTENT

FIG. NO. 1

CLIENT: CASHIN ASSOCIATES

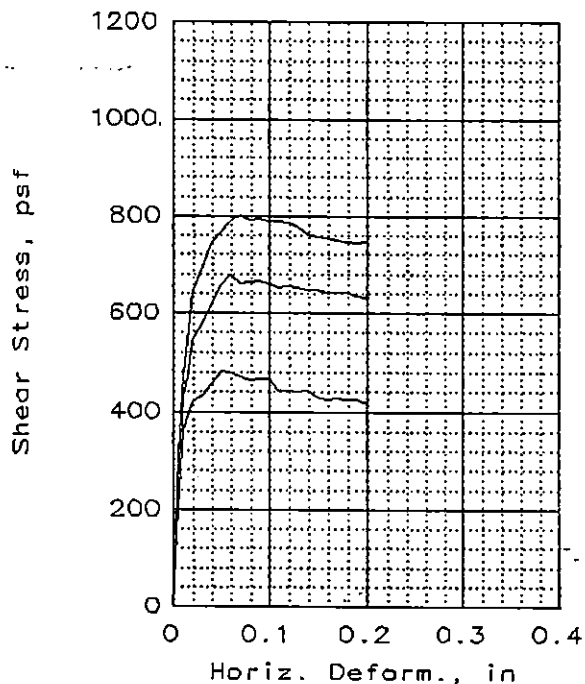
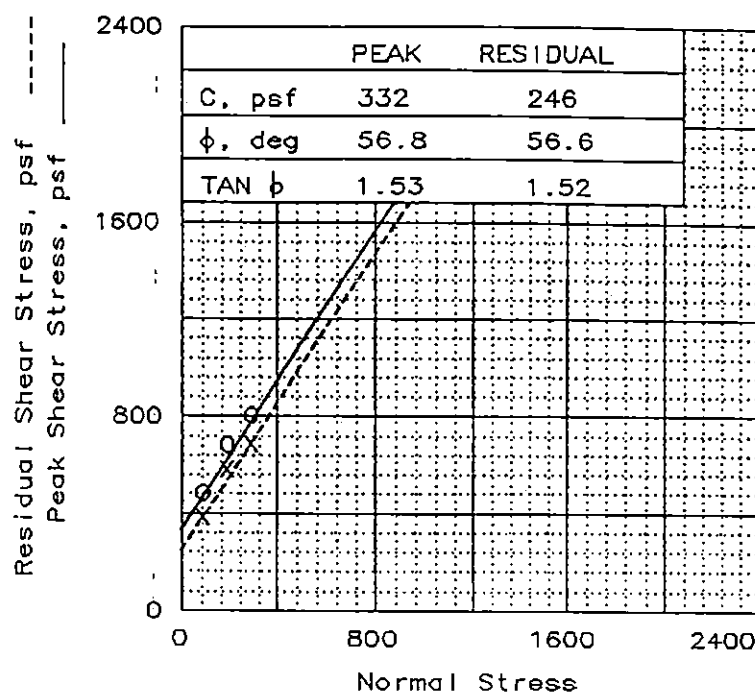
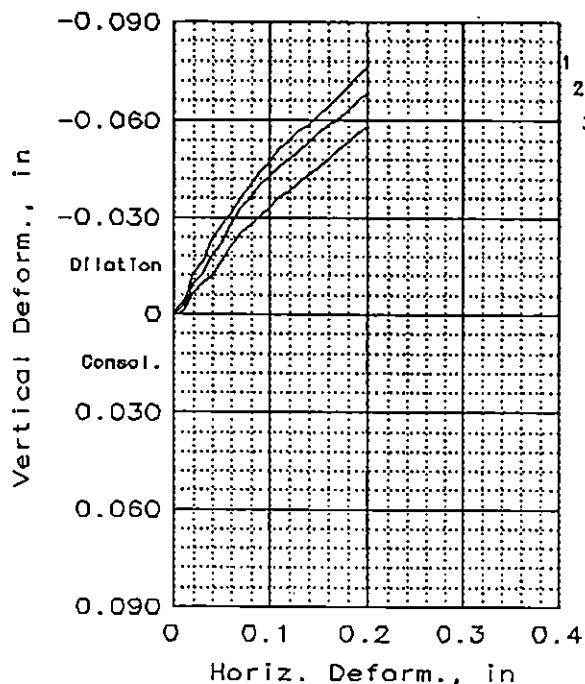
PROJECT: EAST NORTHPORT LANDFILL

SAMPLE LOCATION: S139

PROJ. NO.: 95S1749-13 DATE: 12-05-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	8.4	8.4	8.4
	DRY DENSITY, pcf	109.5	109.5	109.5
	SATURATION, %	43.6	43.6	43.6
	VOID RATIO	0.511	0.511	0.511
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	8.4	8.4	8.4
	DRY DENSITY, pcf	109.5	109.5	109.5
	SATURATION, %	43.6	43.6	43.6
	VOID RATIO	0.511	0.511	0.511
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		482	680	801
RESIDUAL SHEAR, psf		383	581	687
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA
 SAMPLE TYPE: BULK
 DESCRIPTION: ALT. SELECT FILL
 LL= PL= PI=
 SPECIFIC GRAVITY= 2.65
 REMARKS: SAMPLE TESTED AT 85%
 MODIFIED PROCTOR DENSITY AND
 OPTIMUM MOISTURE CONTENT

CLIENT: CASHIN ASSOCIATES

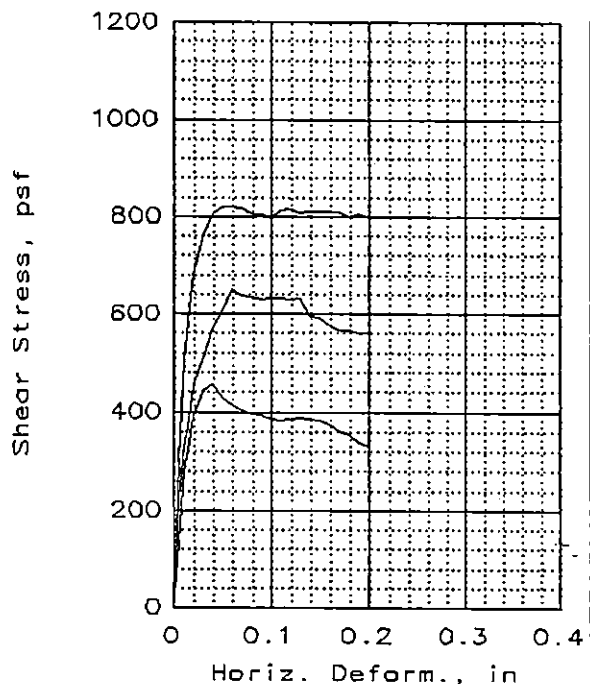
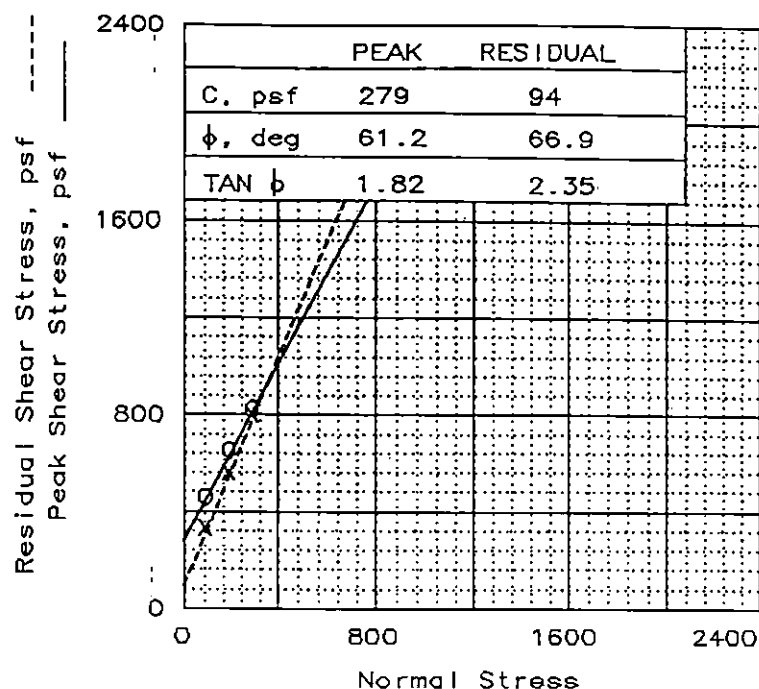
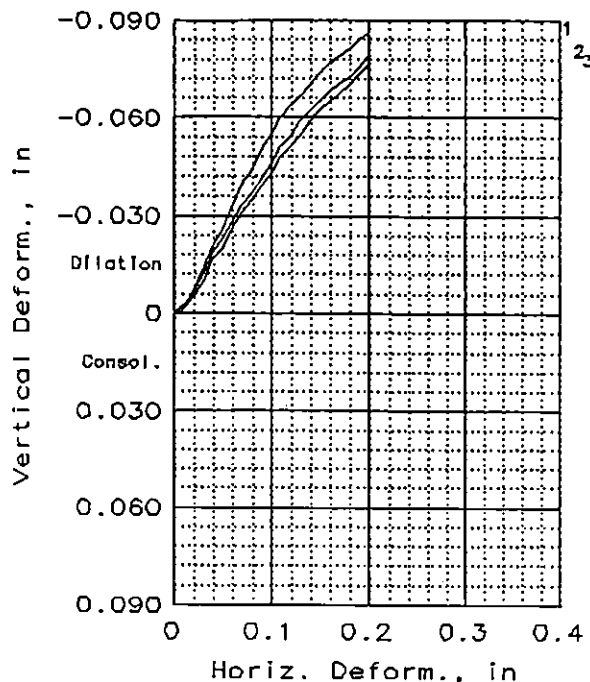
PROJECT: EAST NORTHPORT LANDFILL

SAMPLE LOCATION: S-140

PROJ. NO.: 95S1749-13 DATE: 12-05-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	7.7	7.7	7.7
	DRY DENSITY, pcf	110.6	110.6	110.6
	SATURATION, %	41.2	41.2	41.2
	VOID RATIO	0.496	0.496	0.496
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	7.7	7.7	7.7
	DRY DENSITY, pcf	110.6	110.6	110.6
	SATURATION, %	41.2	41.2	41.2
	VOID RATIO	0.496	0.496	0.496
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		458	650	821
RESIDUAL SHEAR, psf		330	560	800
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA
SAMPLE TYPE: BULK
DESCRIPTION: ALT. SELECT FILL

LL= PL= PI=
SPECIFIC GRAVITY= 2.65
REMARKS: SAMPLE TESTED AT 85%
MODIFIED PROCTOR DENSITY AND
OPTIMUM MOISTURE CONTENT

CLIENT: CASHIN ASSOCIATES

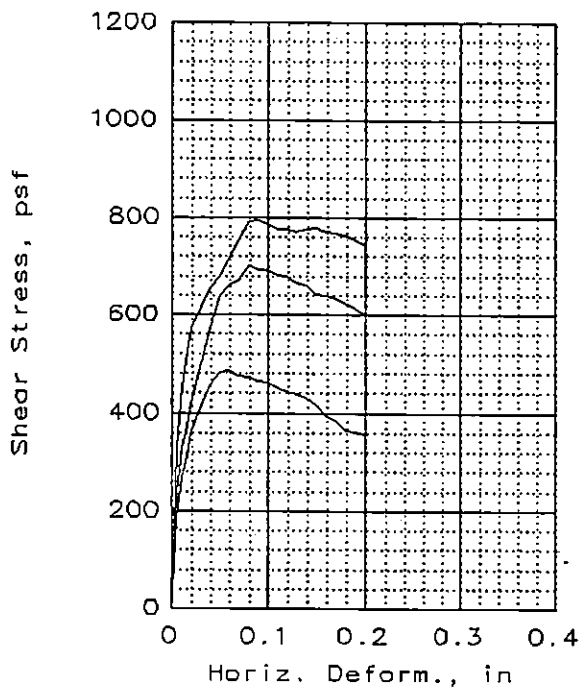
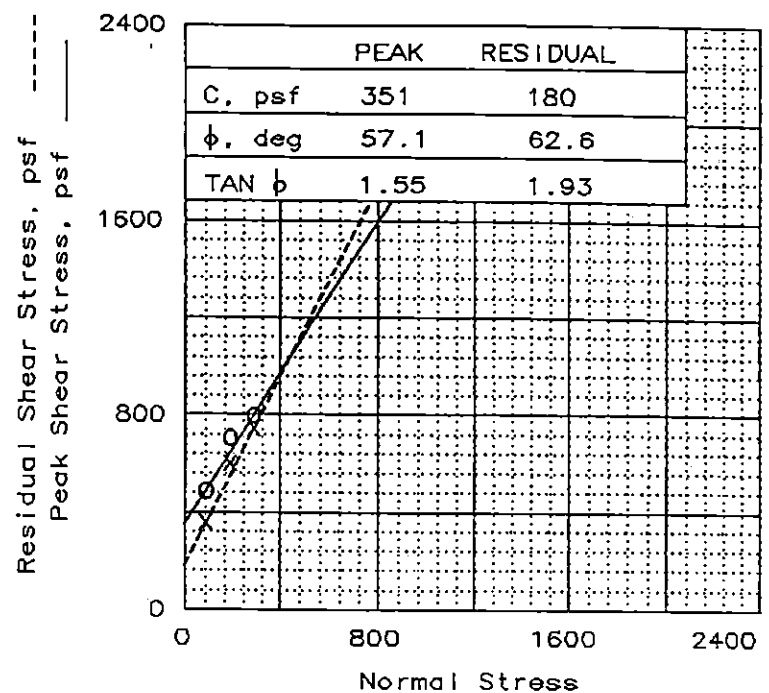
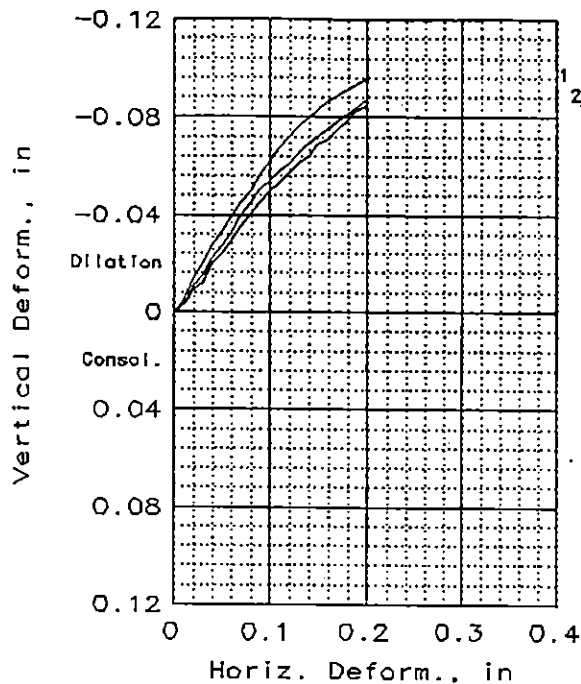
PROJECT: EAST NORTHPORT LANDFILL

SAMPLE LOCATION: S-141

PROJ. NO.: 95S1749-13 DATE: 12-05-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	8.2	8.2	8.2
	DRY DENSITY, pcf	109.7	109.7	109.7
	SATURATION, %	42.8	42.8	42.8
	VOID RATIO	0.507	0.507	0.507
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	8.2	8.2	8.2
	DRY DENSITY, pcf	109.7	109.7	109.7
	SATURATION, %	42.8	42.8	42.8
	VOID RATIO	0.507	0.507	0.507
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		484	702	794
RESIDUAL SHEAR, psf		357	599	744
Strain rate, in/min		0.010	0.010	0.010

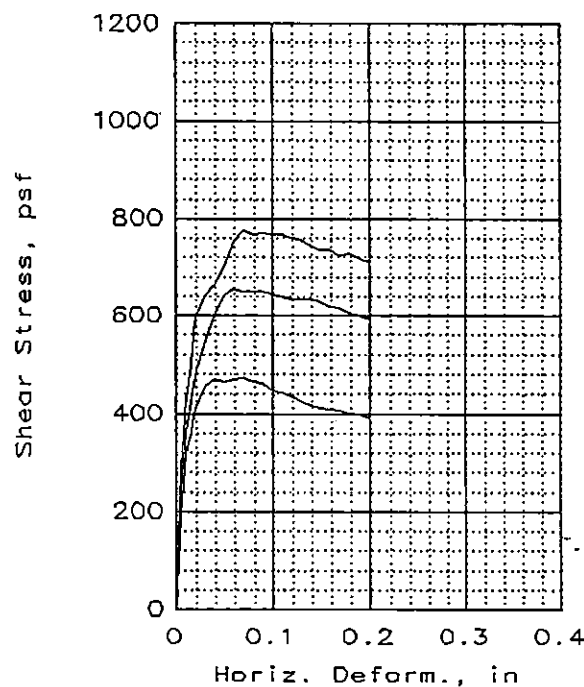
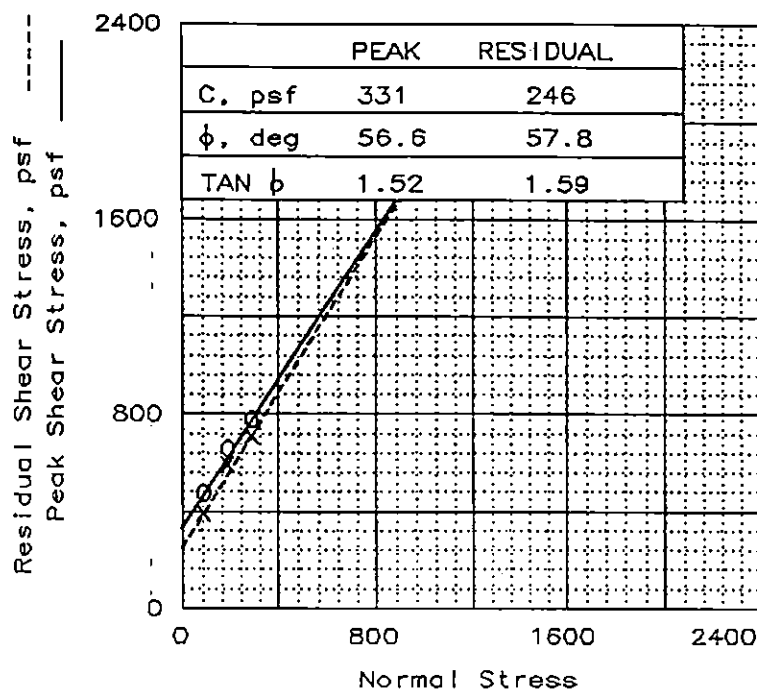
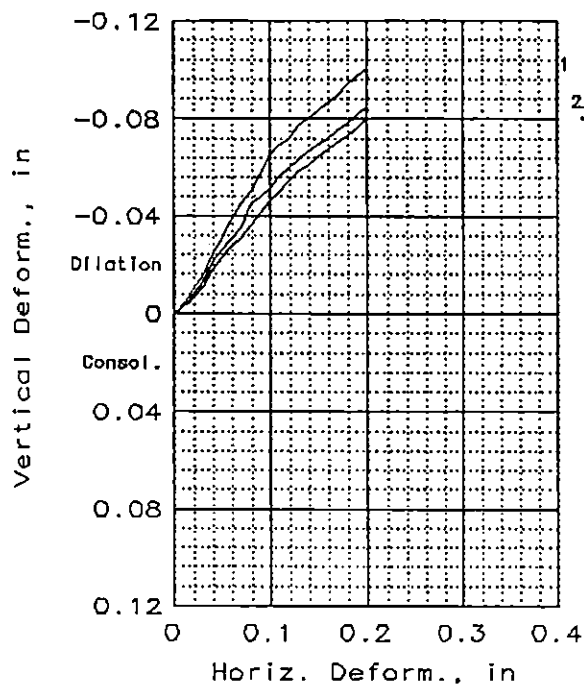
SAMPLE DATA
 SAMPLE TYPE: BULK
 DESCRIPTION: ALT. SELECT FILL
 LL= PL= PI=
 SPECIFIC GRAVITY= 2.65
 REMARKS: SAMPLE TESTED AT 85%
 MODIFIED PROCTOR DENSITY AND
 OPTIMUM MOISTURE CONTENT

CLIENT: CASHIN ASSOCIATES
 PROJECT: EAST NORTHPORT LANDFILL
 SAMPLE LOCATION: S-142

PROJ. NO.: 95S1749-13 DATE: 12-05-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	7.5	7.5	7.5
	DRY DENSITY, pcf	110.8	110.8	110.8
	SATURATION, %	40.4	40.4	40.4
	VOID RATIO	0.493	0.493	0.493
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	7.5	7.5	7.5
	DRY DENSITY, pcf	110.8	110.8	110.8
	SATURATION, %	40.4	40.4	40.4
	VOID RATIO	0.493	0.493	0.493
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		472	655	776
RESIDUAL SHEAR, psf		391	592	710
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA
 SAMPLE TYPE: BULK
 DESCRIPTION: ALT. SELECT FILL
 LL= PL= PI=
 SPECIFIC GRAVITY= 2.65
 REMARKS: SAMPLE TESTED AT 85%
 MODIFIED PROCTOR DENSITY AND
 OPTIMUM MOISTURE CONTENT

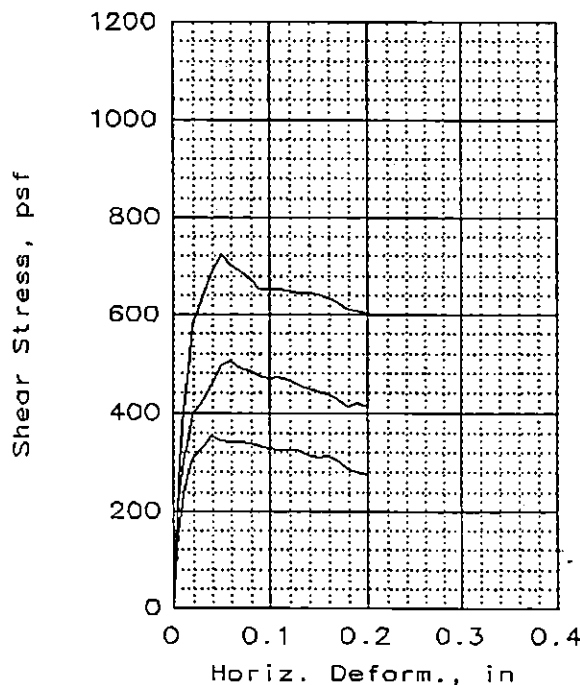
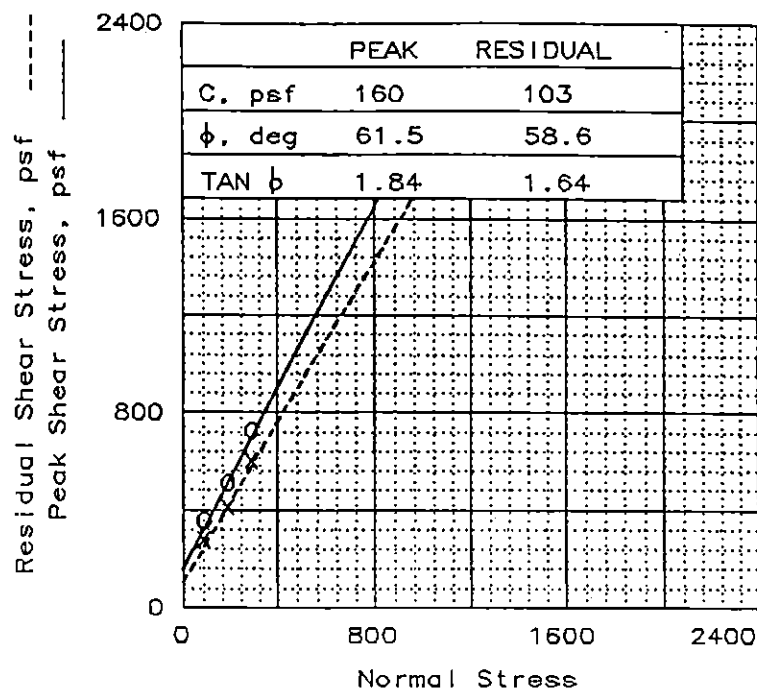
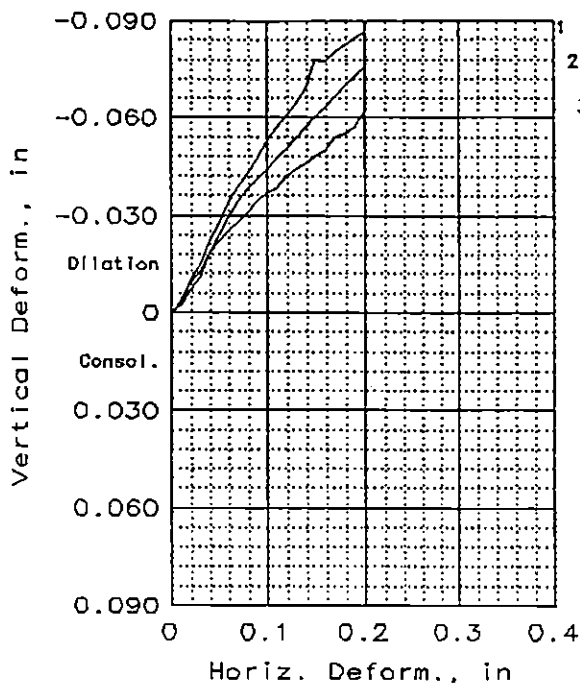
CLIENT: CASHIN ASSOCIATES
 PROJECT: EAST NORTHPORT LANDFILL

SAMPLE LOCATION: S-143

PROJ. NO.: 95S1749-13 DATE: 12-05-95

DIRECT SHEAR TEST REPORT.

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	7.7	7.7	7.7
	DRY DENSITY, pcf	110.1	110.1	110.1
	SATURATION, %	40.5	40.5	40.5
	VOID RATIO	0.503	0.503	0.503
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	7.7	7.7	7.7
	DRY DENSITY, pcf	110.1	110.1	110.1
	SATURATION, %	40.5	40.5	40.5
	VOID RATIO	0.503	0.503	0.503
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		355	507	724
RESIDUAL SHEAR, psf		276	411	604
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA

SAMPLE TYPE: BULK

DESCRIPTION: ALT. SELECT FILL

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS: SAMPLE TESTED AT 85%

MODIFIED PROCTOR DENSITY AND
OPTIMUM MOISTURE CONTENT

CLIENT: CASHIN ASSOCIATES

PROJECT: EAST NORTHPORT LANDFILL

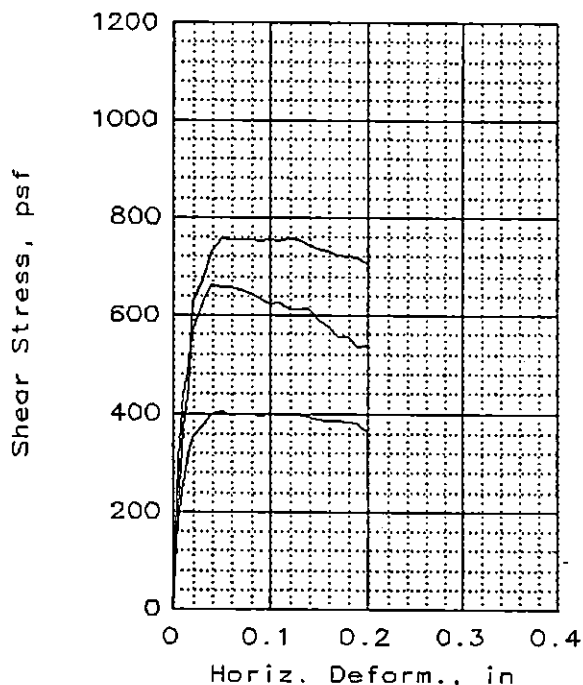
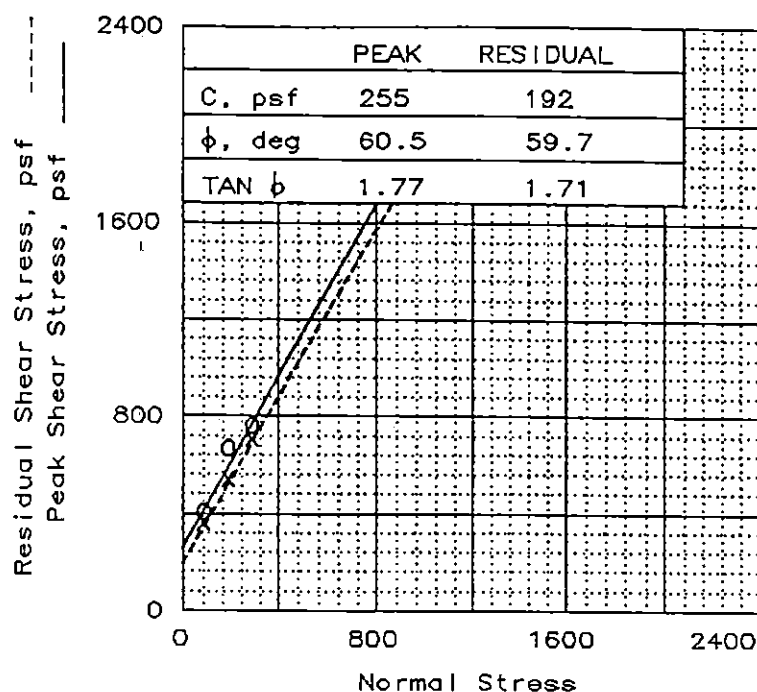
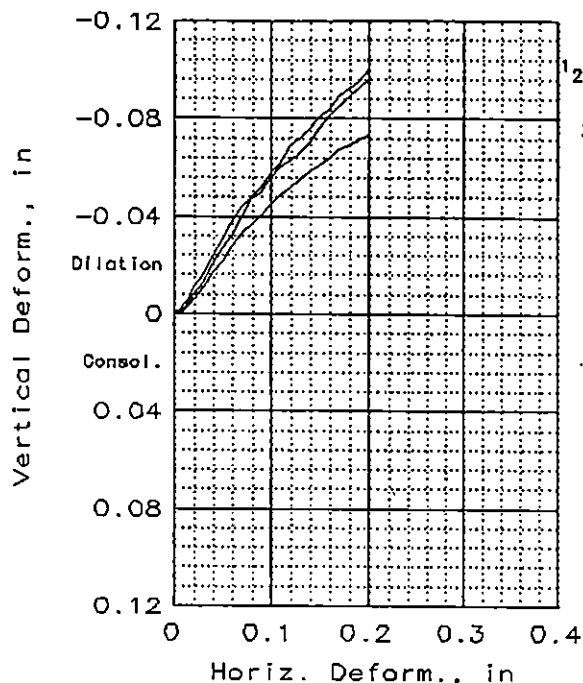
SAMPLE LOCATION: S-144

PROJ. NO.: 95S1749-13 DATE: 12-05-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.

FIG. NO. 1



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	7.5	7.5	7.5
	DRY DENSITY, pcf	111.0	111.0	111.0
	SATURATION, %	40.5	40.5	40.5
	VOID RATIO	0.491	0.491	0.491
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	7.5	7.5	7.5
	DRY DENSITY, pcf	111.0	111.0	111.0
	SATURATION, %	40.5	40.5	40.5
	VOID RATIO	0.491	0.491	0.491
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		404	663	758
RESIDUAL SHEAR, psf		362	538	705
Strain rate, in/min		0.010	0.010	0.010

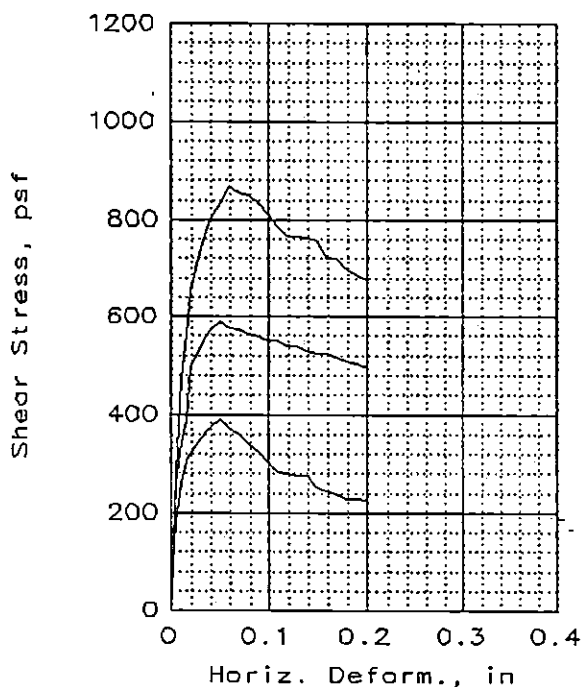
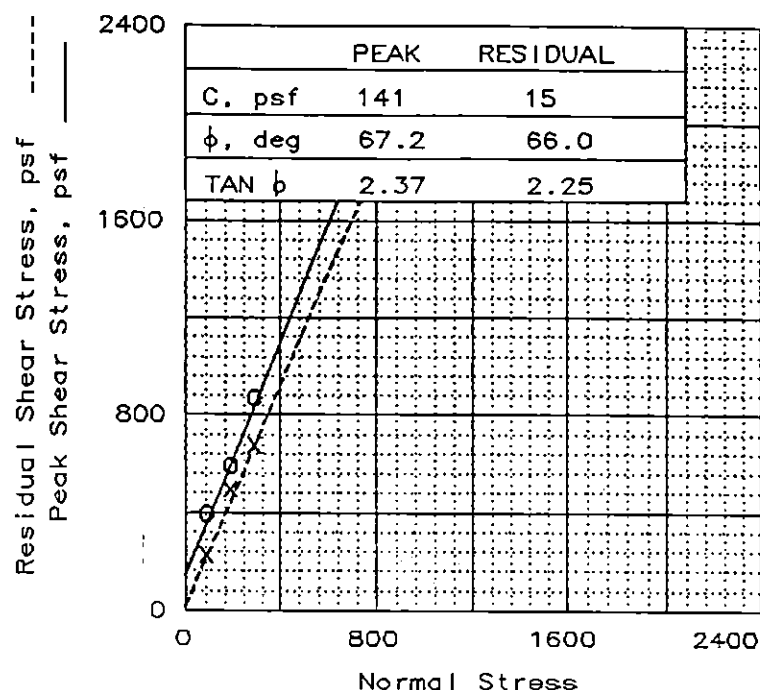
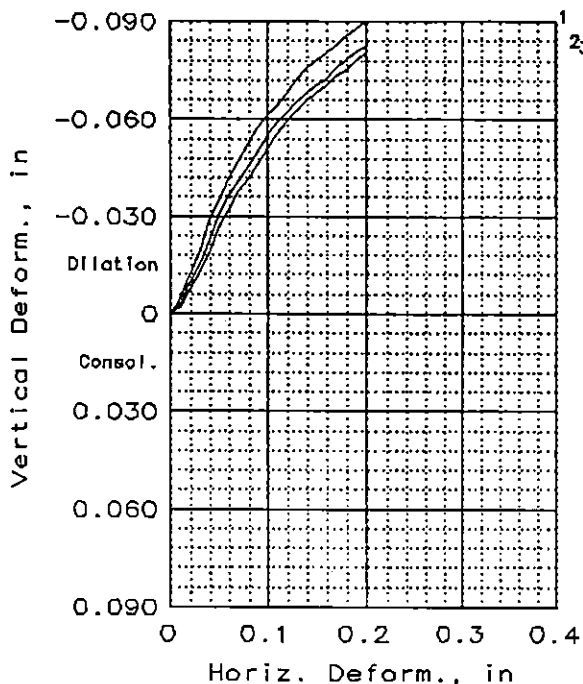
SAMPLE DATA
 SAMPLE TYPE: BULK
 DESCRIPTION: ALT. SELECT FILL
 LL= PL= PI=
 SPECIFIC GRAVITY= 2.65
 REMARKS: SAMPLE TESTED AT 85%
 MODIFIED PROCTOR DENSITY AND
 OPTIMUM MOISTURE CONTENT

CLIENT: CASHIN ASSOCIATES
 PROJECT: EAST NORTHPORT LANDFILL
 SAMPLE LOCATION: S-145

PROJ. NO.: 95S1749-13 DATE: 12-05-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	8.1	8.1	8.1
	DRY DENSITY, pcf	110.1	110.1	110.1
	SATURATION, %	42.7	42.7	42.7
	VOID RATIO	0.503	0.503	0.503
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	8.1	8.1	8.1
	DRY DENSITY, pcf	110.1	110.1	110.1
	SATURATION, %	42.7	42.7	42.7
	VOID RATIO	0.503	0.503	0.503
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		392	590	867
RESIDUAL SHEAR, psf		225	495	675
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA
 SAMPLE TYPE:
 DESCRIPTION: ALT.SELECT
 LL= PL= PI=
 SPECIFIC GRAVITY= 2.65
 REMARKS:

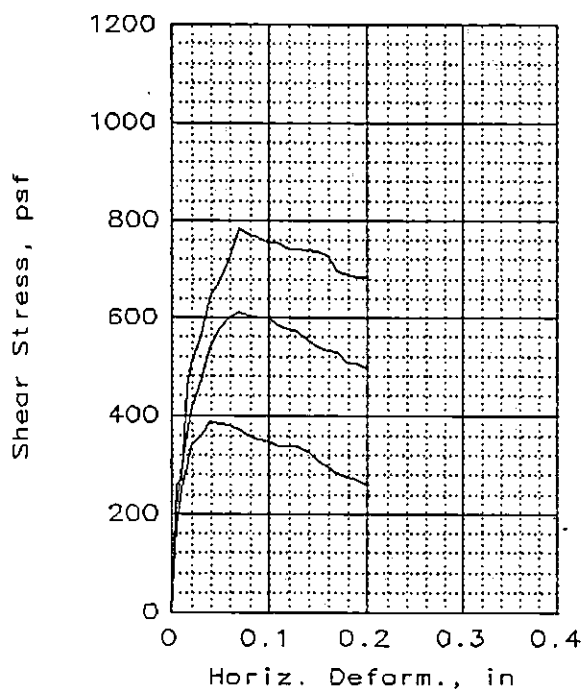
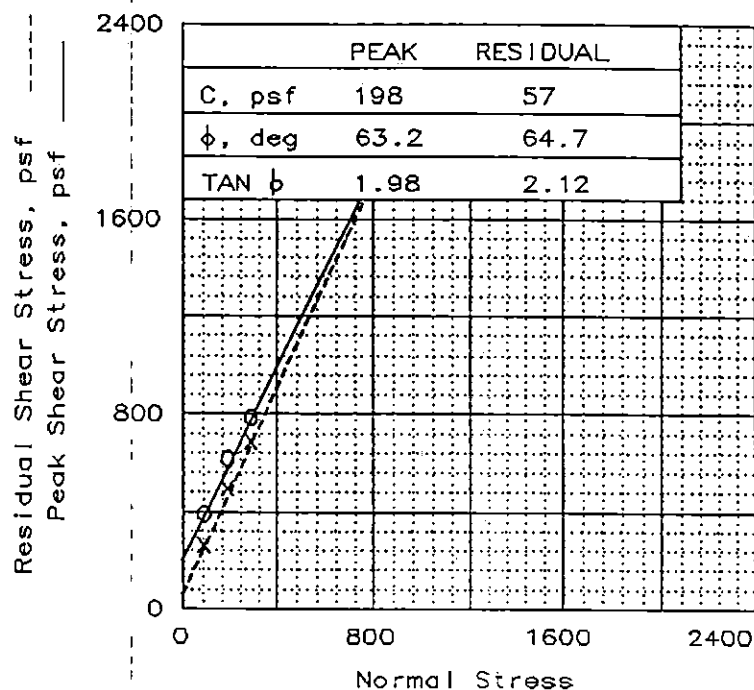
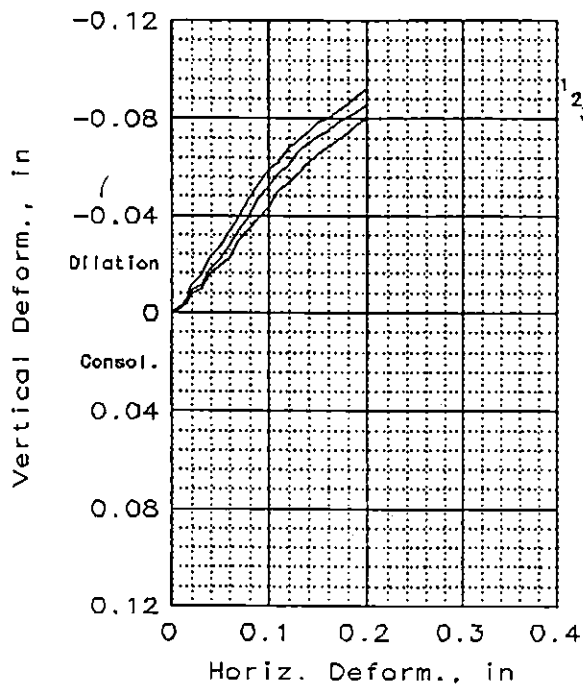
CLIENT: CASHIN
 PROJECT: EAST NORTHPORT
 SAMPLE LOCATION: S-146

PROJ. NO.: 94S1749-14 DATE: 12-21-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.

FIG. NO.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	8.1	8.1	8.1
	DRY DENSITY, pcf	109.6	109.6	109.6
	SATURATION, %	42.1	42.1	42.1
	VOID RATIO	0.510	0.510	0.510
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	8.1	8.1	11.6
	DRY DENSITY, pcf	109.6	109.6	109.6
	SATURATION, %	42.1	42.1	60.3
	VOID RATIO	0.510	0.510	0.510
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		387	612	783
RESIDUAL SHEAR, psf		261	495	684
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA

SAMPLE TYPE:

DESCRIPTION: ALT.SELECT

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS:

CLIENT: CASHIN

PROJECT: EAST NORTHPORT

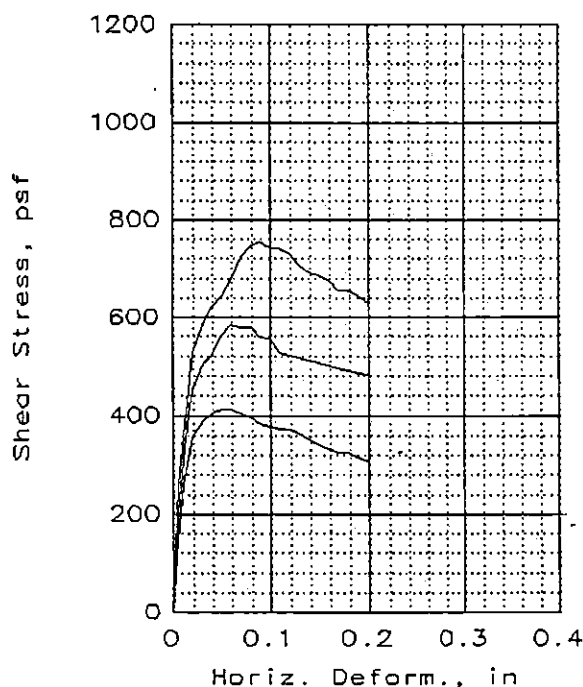
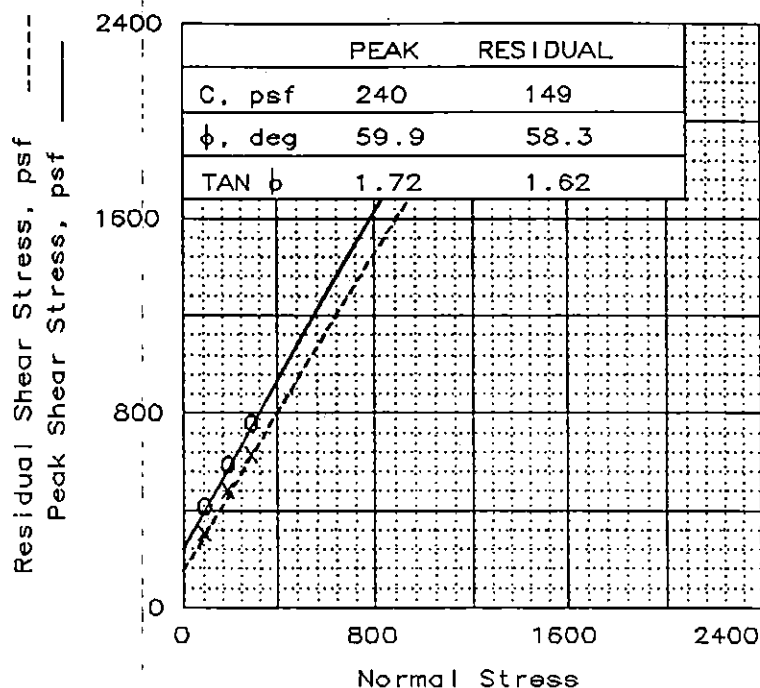
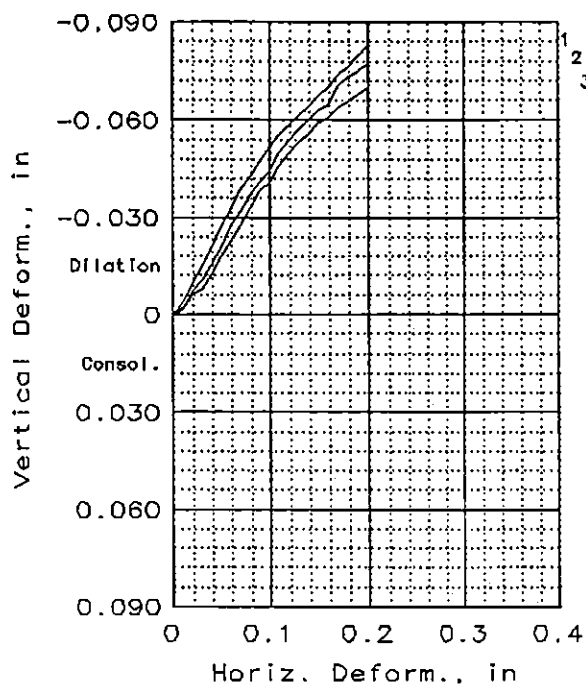
SAMPLE LOCATION: S-147

PROJ. NO.: 94S1749-14 DATE: 12-21-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.

FIG. NO.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	7.0	7.0	7.0
	DRY DENSITY, pcf	109.1	109.1	109.1
	SATURATION, %	35.9	35.9	35.9
	VOID RATIO	0.516	0.516	0.516
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	7.0	7.0	7.0
	DRY DENSITY, pcf	109.1	109.1	109.1
	SATURATION, %	35.9	35.9	35.9
	VOID RATIO	0.516	0.516	0.516
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		412	585	756
RESIDUAL SHEAR, psf		306	482	630
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA

SAMPLE TYPE:

DESCRIPTION: ALT-SELECT

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS:

CLIENT: CASHIN

PROJECT: EAST NORTHPORT

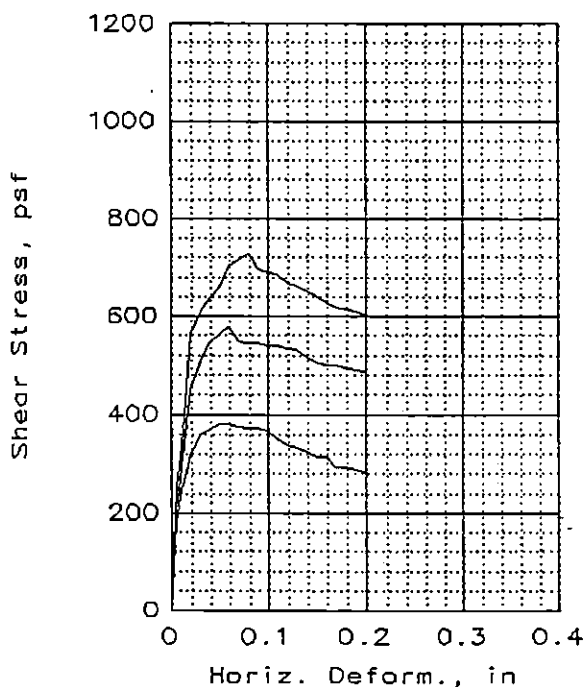
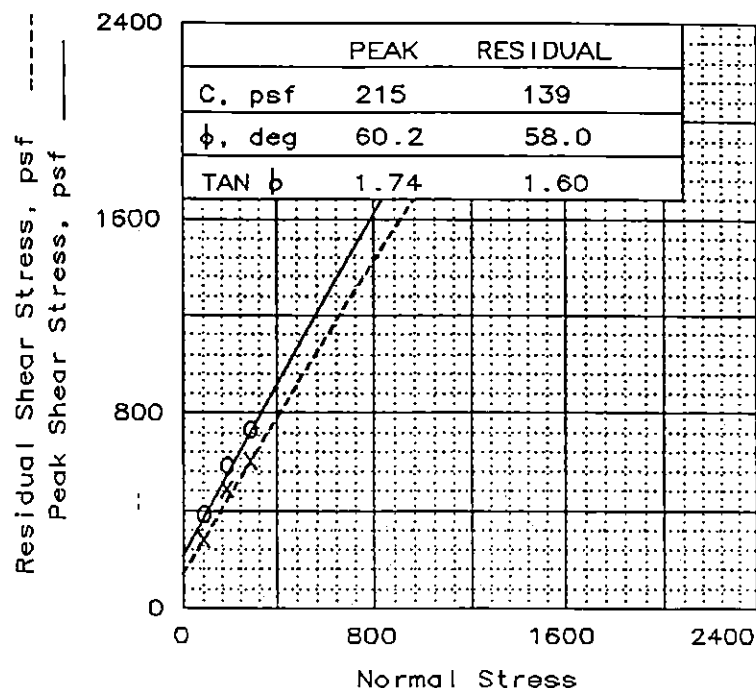
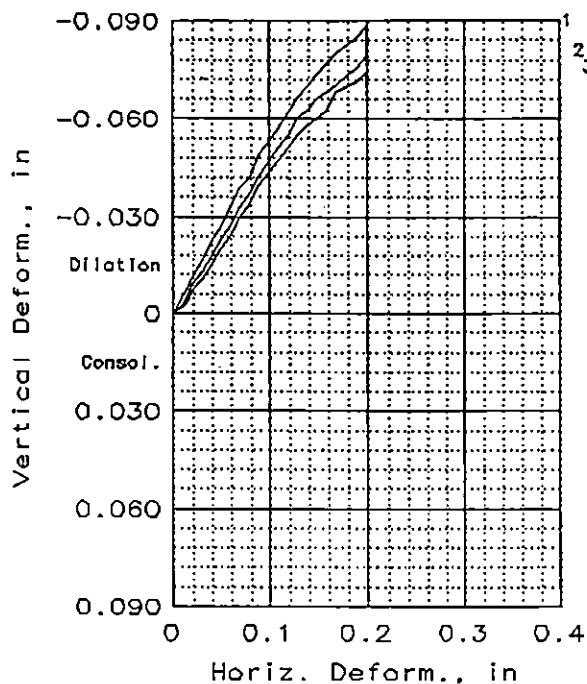
SAMPLE LOCATION: S148

PROJ. NO.: 94S1749-14 DATE: 12-22-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.

FIG. NO.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	7.8	7.8	7.8
	DRY DENSITY, pcf	109.5	109.5	109.5
	SATURATION, %	40.4	40.4	40.4
	VOID RATIO	0.511	0.511	0.511
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	7.8	7.8	7.8
	DRY DENSITY, pcf	109.5	109.5	109.5
	SATURATION, %	40.4	40.4	40.4
	VOID RATIO	0.511	0.511	0.511
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		380	581	729
RESIDUAL SHEAR, psf		284	488	603
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA
 SAMPLE TYPE:
 DESCRIPTION: ALT-SELECT
 LL= PL= PI=
 SPECIFIC GRAVITY= 2.65
 REMARKS:

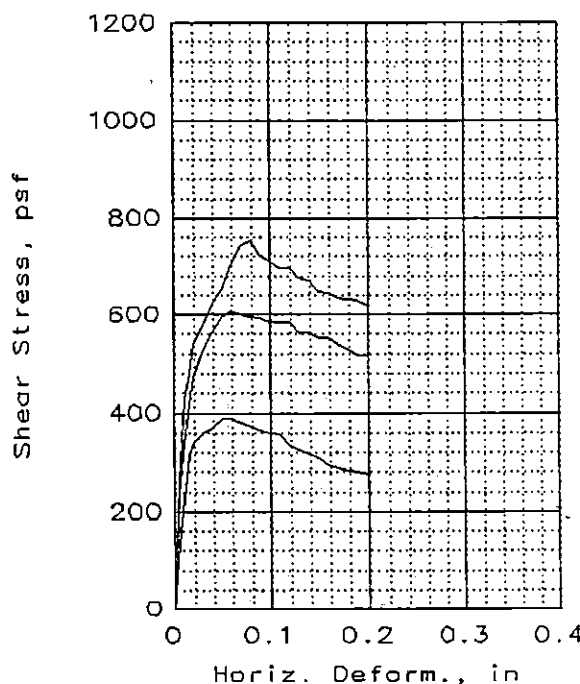
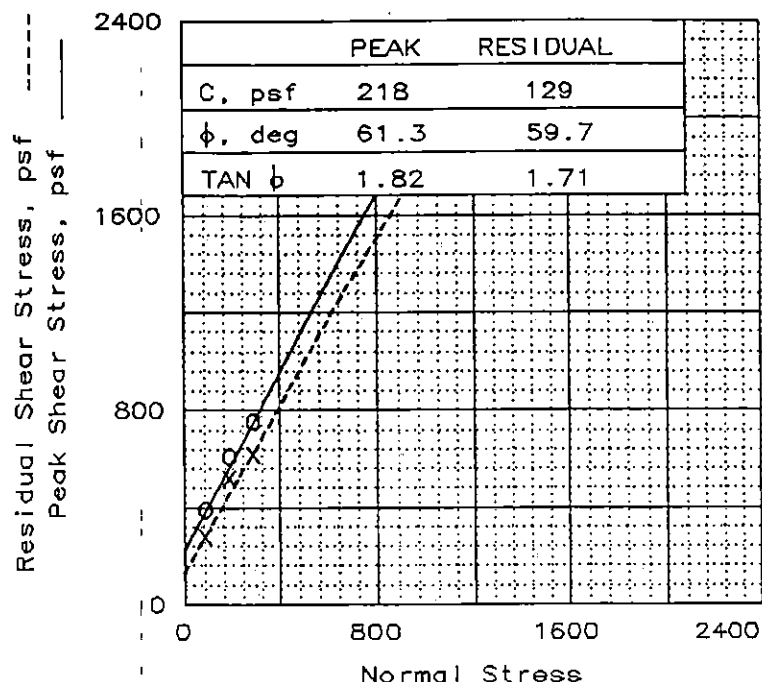
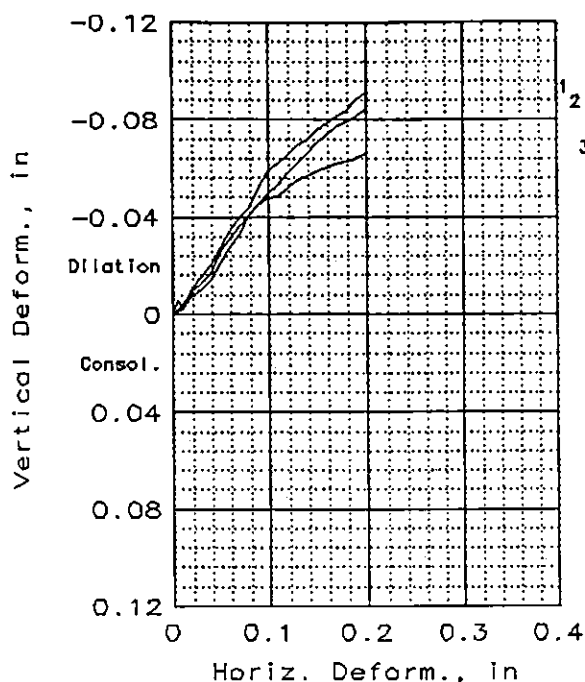
CLIENT: CASHIN
 PROJECT: EAST NORTHPORT
 SAMPLE LOCATION: S-149

PROJ. NO.: 94S1749-14 DATE: 12-22-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.

FIG. NO.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	7.0	7.0	7.0
	DRY DENSITY, pcf	108.8	108.8	108.8
	SATURATION, %	35.6	35.6	35.6
	VOID RATIO	0.521	0.521	0.521
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	7.0	7.0	7.0
	DRY DENSITY, pcf	108.8	108.8	108.8
	SATURATION, %	35.6	35.6	35.6
	VOID RATIO	0.521	0.521	0.521
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		387	608	752
RESIDUAL SHEAR, psf		277	518	619
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA

SAMPLE TYPE:

DESCRIPTION: ALT-SELECT

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS:

CLIENT: CASHIN

PROJECT: EAST NORTHPORT

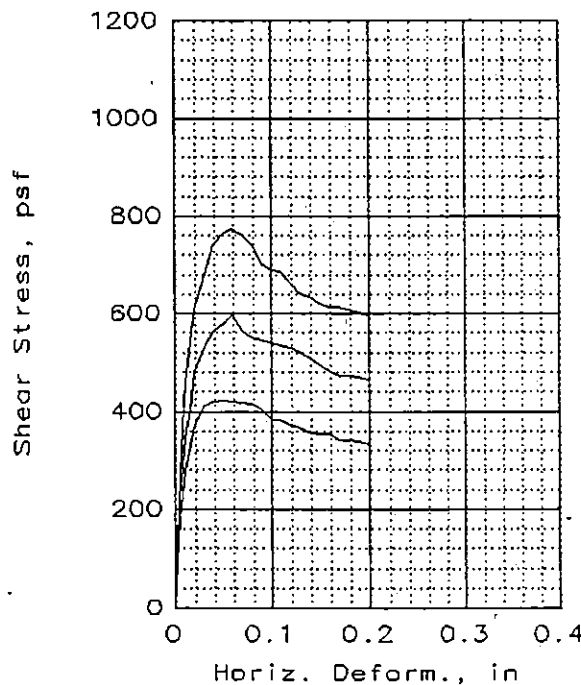
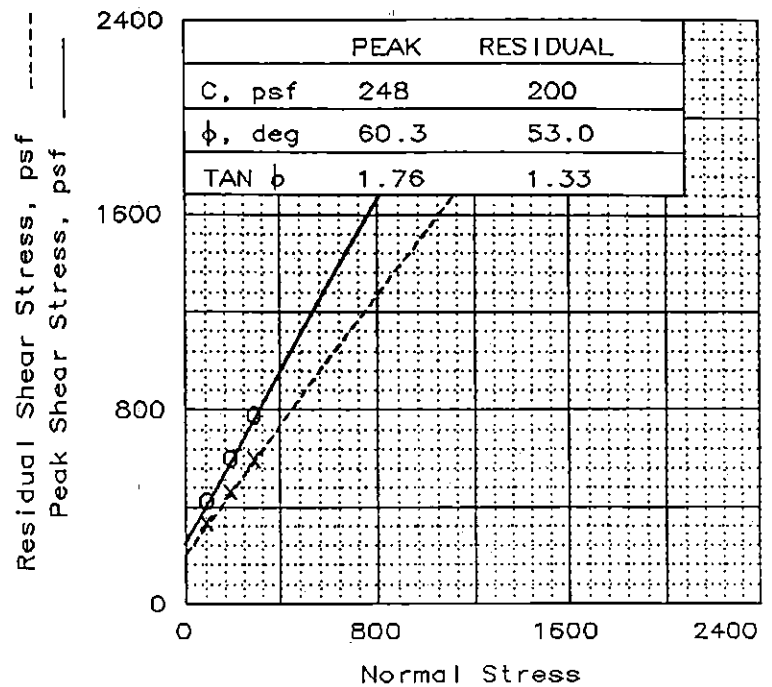
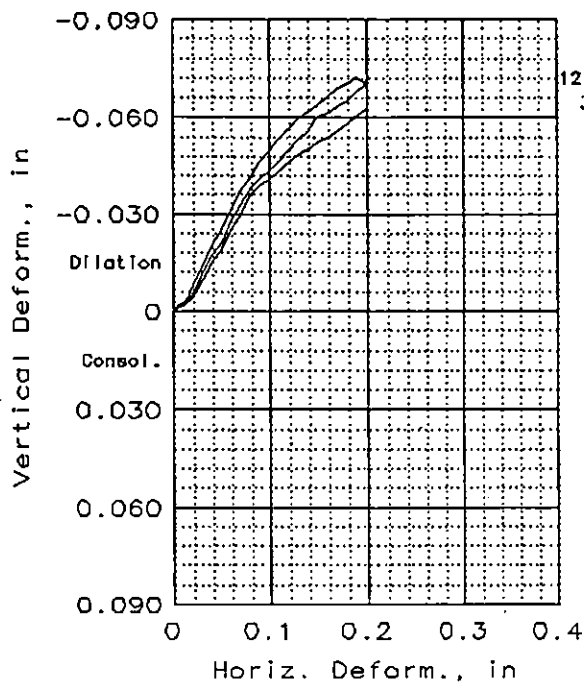
SAMPLE LOCATION: S-150

PROJ. NO.: 94S1749-14 DATE: 12-22-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.

FIG. NO.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	7.6	7.6	7.6
	DRY DENSITY, pcf	109.1	109.1	109.1
	SATURATION, %	39.0	39.0	39.0
	VOID RATIO	0.516	0.516	0.516
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	7.6	7.6	7.6
	DRY DENSITY, pcf	109.1	109.1	109.1
	SATURATION, %	39.0	39.0	39.0
	VOID RATIO	0.516	0.516	0.516
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		423	599	774
RESIDUAL SHEAR, psf		333	464	599
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA

SAMPLE TYPE:

DESCRIPTION: ALT-SELECT

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS:

CLIENT: CASHIN

PROJECT: EAST NORTHPORT

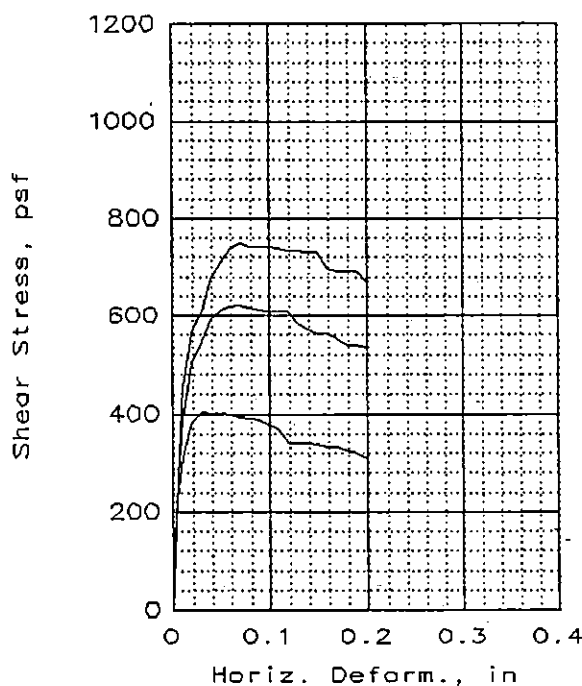
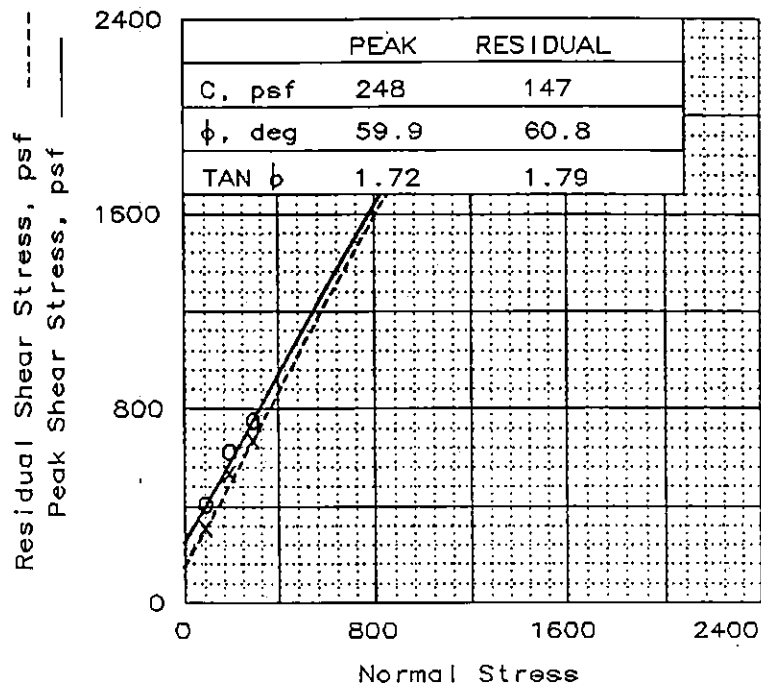
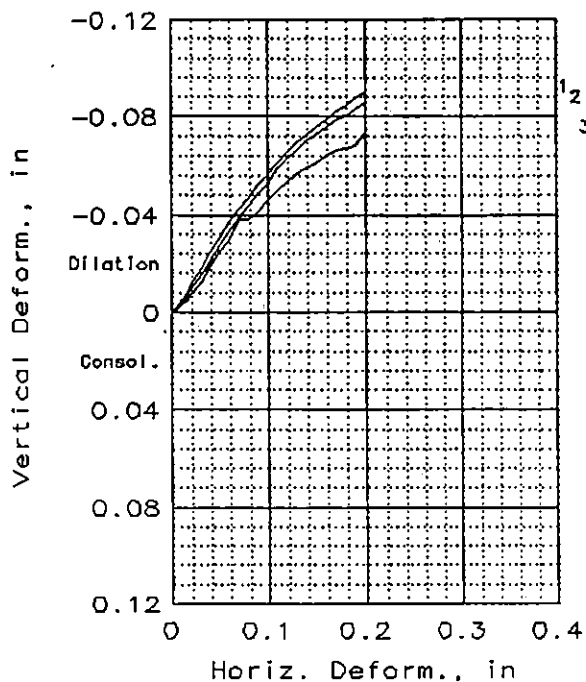
SAMPLE LOCATION: S-151

PROJ. NO.: 94S1749-14 DATE: 12-22-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.

FIG. NO.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	6.9	6.9	6.9
	DRY DENSITY, pcf	110.0	110.0	110.0
	SATURATION, %	36.3	36.3	36.3
	VOID RATIO	0.504	0.504	0.504
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	6.9	6.9	6.9
	DRY DENSITY, pcf	110.0	110.0	110.0
	SATURATION, %	36.3	36.3	36.3
	VOID RATIO	0.504	0.504	0.504
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		405	621	750
RESIDUAL SHEAR, psf		311	536	669
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA

SAMPLE TYPE:

DESCRIPTION: ALT-SELECT

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS:

CLIENT: CASHIN

PROJECT: EAST NORTHPORT

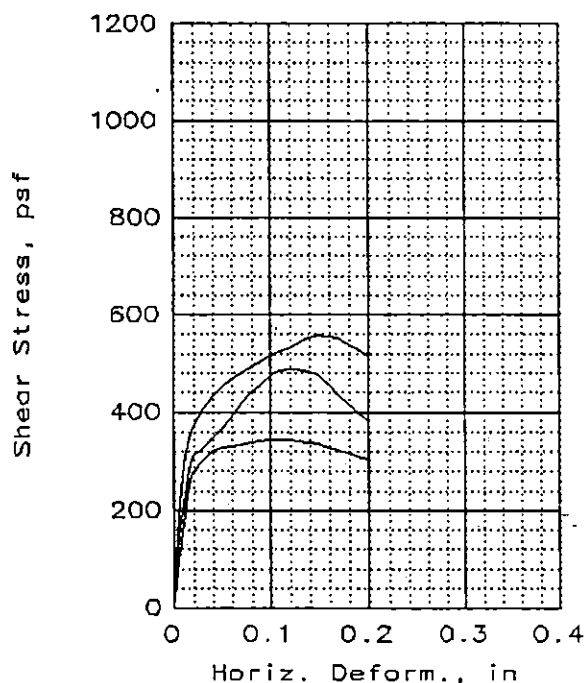
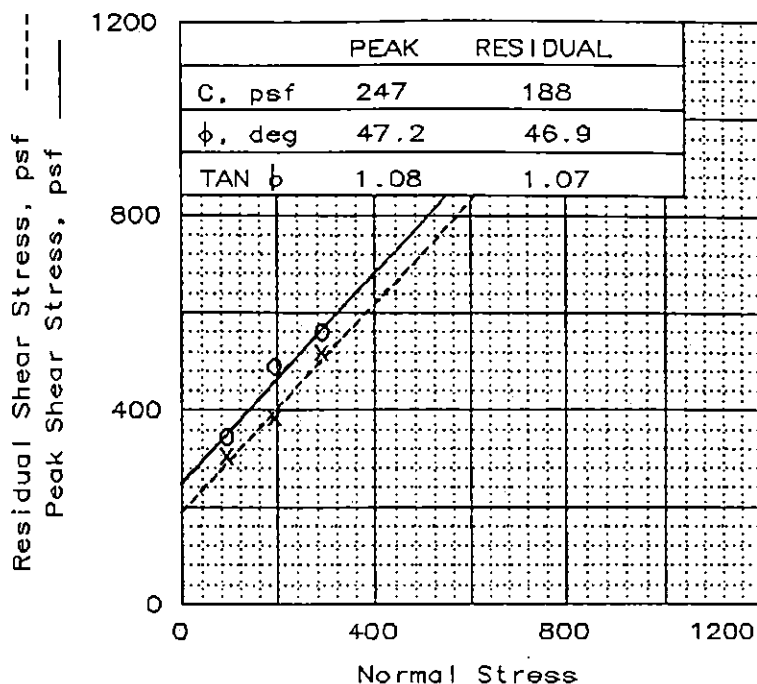
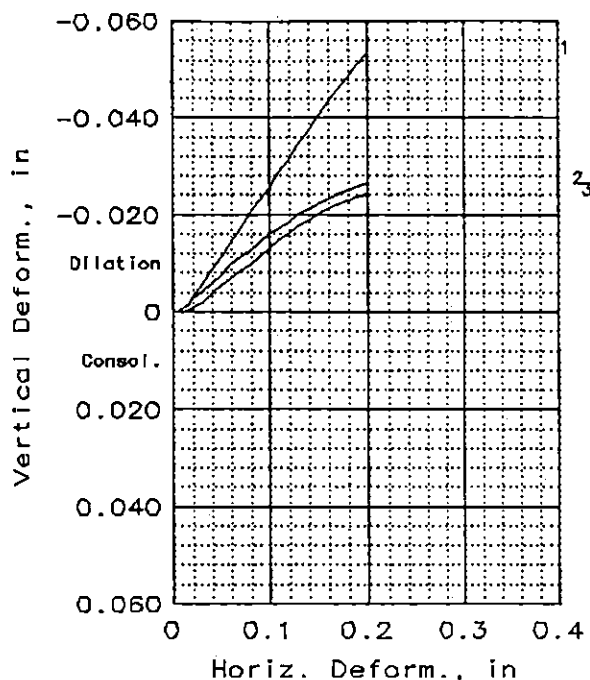
SAMPLE LOCATION: S-152

PROJ. NO.: 94S1749-14 DATE: 12-22-95

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.

FIG. NO.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	7.0	7.0	7.0
	DRY DENSITY, pcf	102.5	102.5	102.5
	SATURATION, %	30.3	30.3	30.3
	VOID RATIO	0.614	0.614	0.614
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	7.0	7.0	7.0
	DRY DENSITY, pcf	102.5	102.5	102.5
	SATURATION, %	30.3	30.3	30.3
	VOID RATIO	0.614	0.614	0.614
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		343	487	559
RESIDUAL SHEAR, psf		304	384	518
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA

SAMPLE TYPE:

DESCRIPTION: ALT-SELECT

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS:

CLIENT: CASHIN

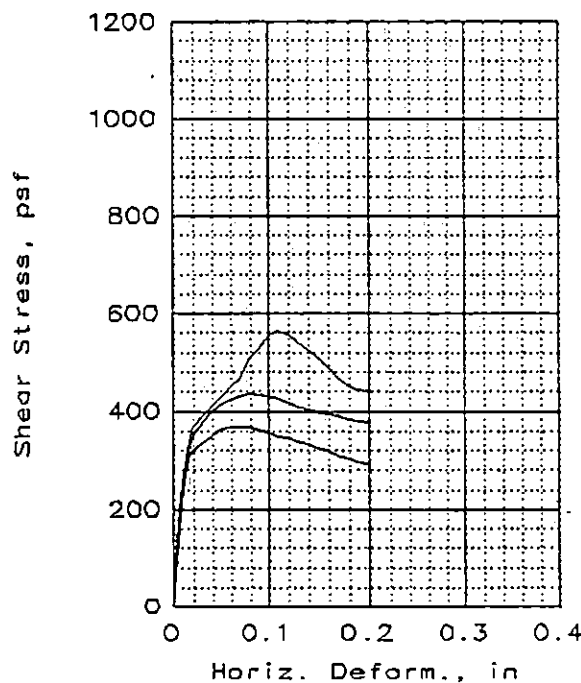
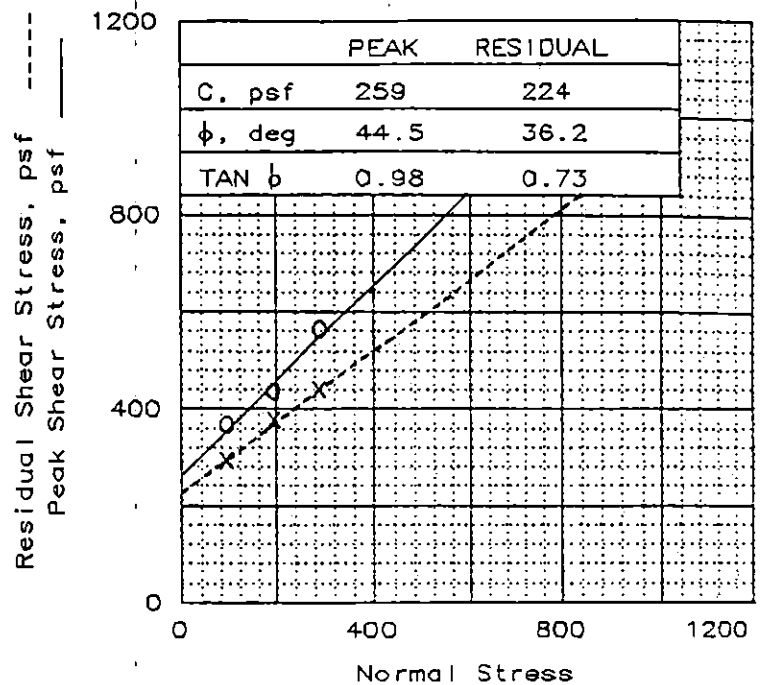
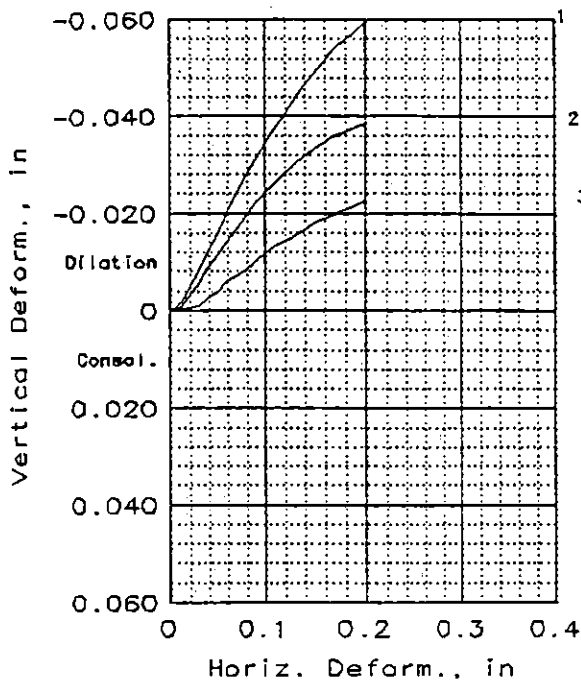
PROJECT: EAST NORTHPORT

SAMPLE LOCATION: S-161

PROJ. NO.: 94S1749-16 DATE: 05-20-96

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	7.0	7.0	7.0
	DRY DENSITY, pcf	102.5	102.5	102.5
	SATURATION, %	30.3	30.3	30.3
	VOID RATIO	0.614	0.614	0.614
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	7.0	7.0	7.0
	DRY DENSITY, pcf	102.5	102.5	102.5
	SATURATION, %	30.3	30.3	30.3
	VOID RATIO	0.614	0.614	0.614
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		367	436	563
RESIDUAL SHEAR, psf		293	377	440
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA
 SAMPLE TYPE:
 DESCRIPTION: ALT-SELECT

LL= PL= PI=
 SPECIFIC GRAVITY= 2.65
 REMARKS:

CLIENT: CASHIN

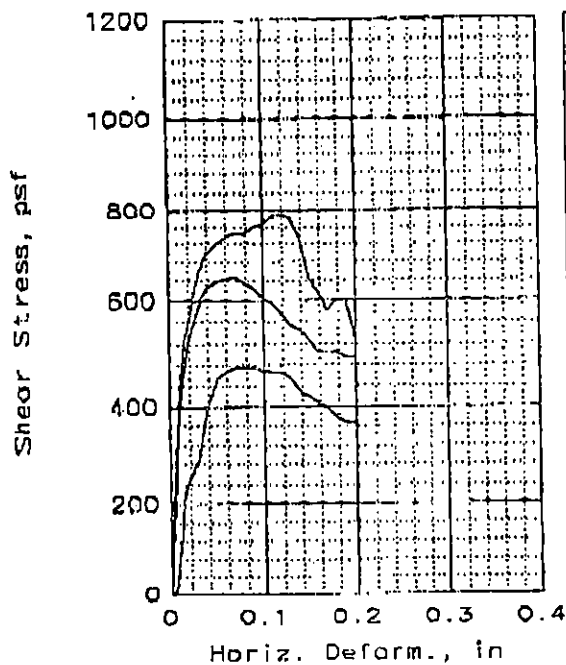
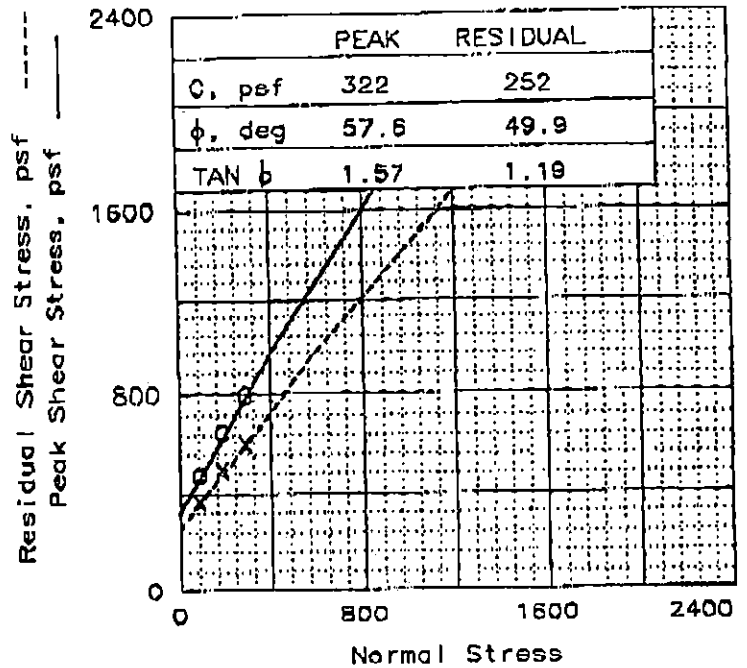
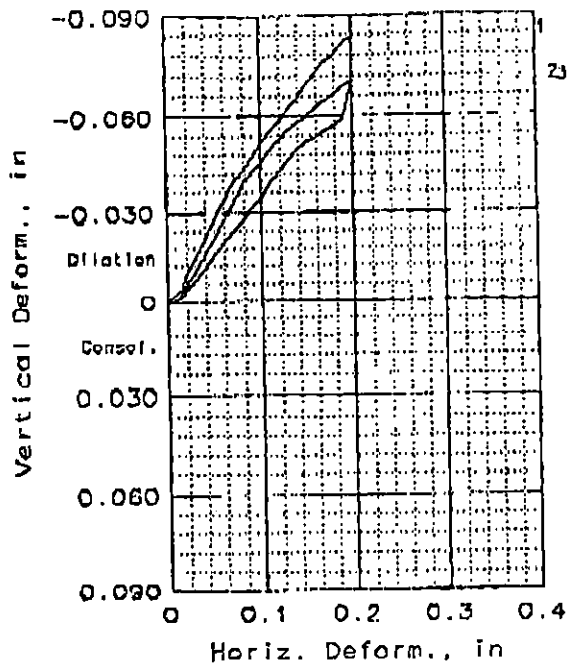
PROJECT: EAST NORTHPORT

SAMPLE LOCATION: S-162

PROJ. NO.: 94S1749-16 DATE: 05-20-96

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	7.7	7.7	7.7
	DRY DENSITY, pcf	102.8	102.8	102.8
	SATURATION, %	33.5	33.5	33.5
	VOID RATIO	0.610	0.610	0.610
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	7.7	7.7	7.7
	DRY DENSITY, pcf	102.8	102.8	102.8
	SATURATION, %	33.5	33.5	33.5
	VOID RATIO	0.610	0.610	0.610
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		474	647	789
RESIDUAL SHEAR, psf		367	496	604
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA

SAMPLE TYPE:
DESCRIPTION: ALT-SELECT

LL- PL- PI-
SPECIFIC GRAVITY= 2.65

REMARKS:

CLIENT: CASHIN

PROJECT: EAST NORTHPORT

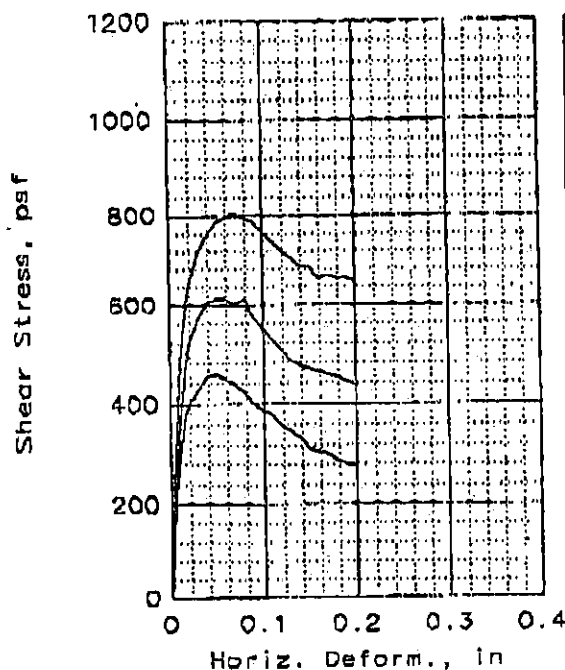
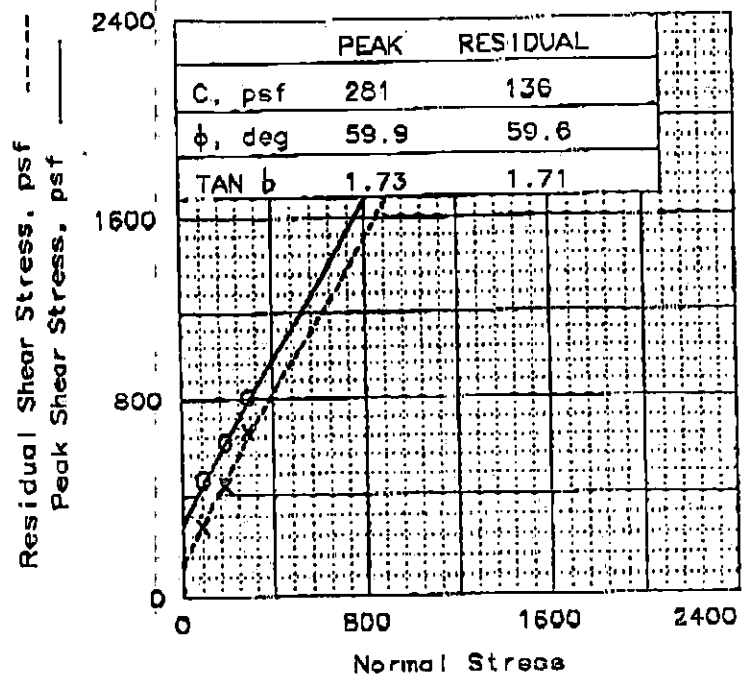
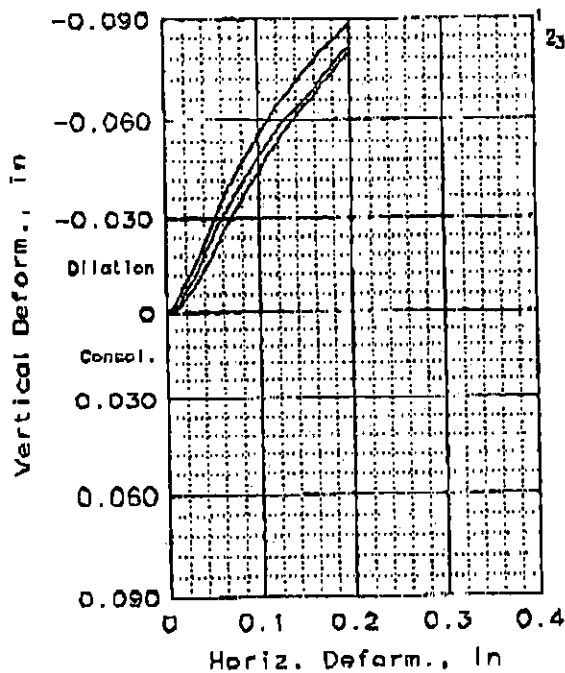
SAMPLE LOCATION: S-153

PROJ. NO.: 94S1749-15 DATE: 4-5-96

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.

FIG. NO.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	7.4	7.4	7.4
	DRY DENSITY, pcf	102.3	102.3	102.3
	SATURATION, %	31.8	31.8	31.8
	VOID RATIO	0.617	0.617	0.617
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	7.4	7.4	7.4
	DRY DENSITY, pcf	102.3	102.3	102.3
	SATURATION, %	31.8	31.8	31.8
	VOID RATIO	0.617	0.617	0.617
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		459	615	804
RESIDUAL SHEAR, psf		280	438	662
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA

SAMPLE TYPE:

DESCRIPTION: ALT-SELECT

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS:

CLIENT: CASHIN

PROJECT: EAST NORTHPORT

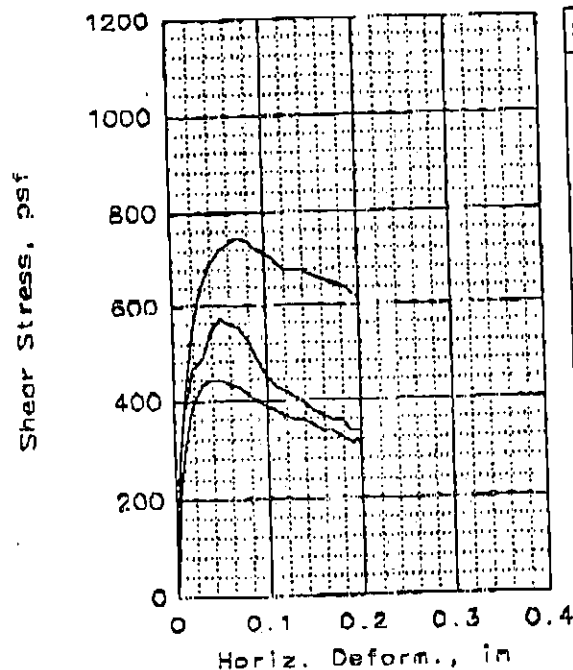
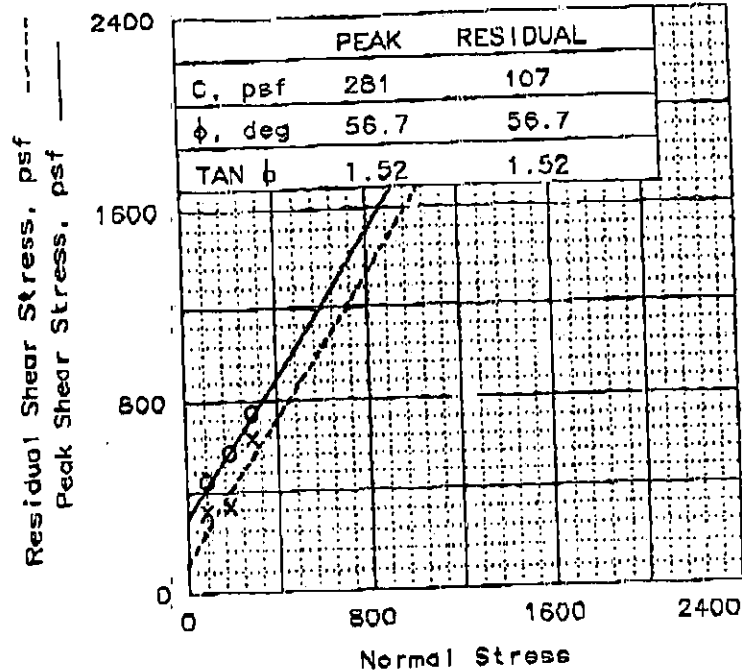
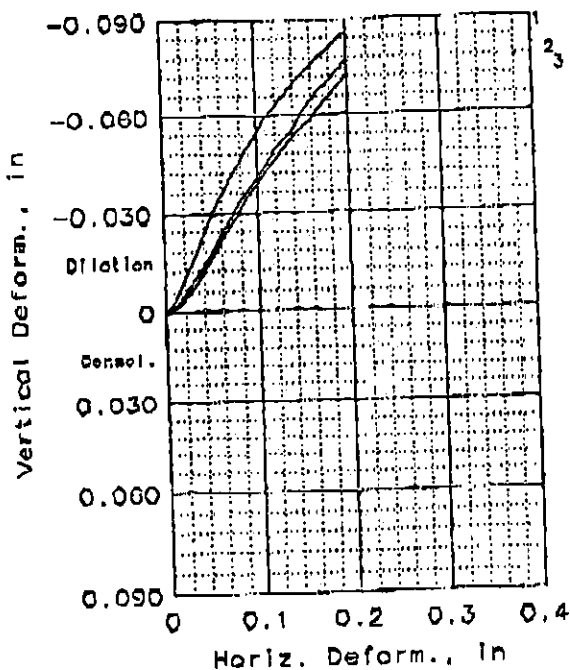
SAMPLE LOCATION: S-154

PROJ. NO.: 94S1749-15 DATE: 4-5-96

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.

FIG. NO.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	7.8	7.8	7.8
	DRY DENSITY, pcf	102.5	102.5	102.5
	SATURATION, %	33.7	33.7	33.7
	VOID RATIO	0.614	0.614	0.614
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	7.8	7.8	7.8
	DRY DENSITY, pcf	102.5	102.5	102.5
	SATURATION, %	33.7	33.7	33.7
	VOID RATIO	0.614	0.614	0.614
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		440	571	744
RESIDUAL SHEAR, psf		313	334	632
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA
 SAMPLE TYPE:
 DESCRIPTION: ALT-SELECT

LL= PL= PI=
 SPECIFIC GRAVITY= 2.65
 REMARKS:

CLIENT: CASHIN

PROJECT: EAST NORTHPORT

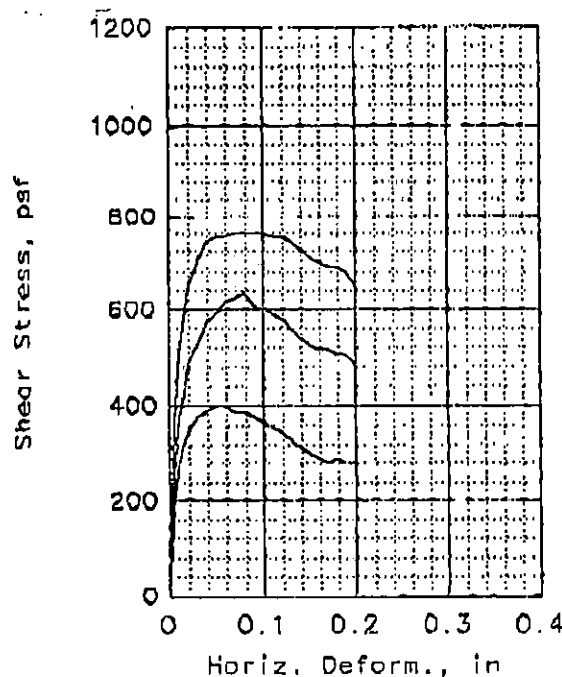
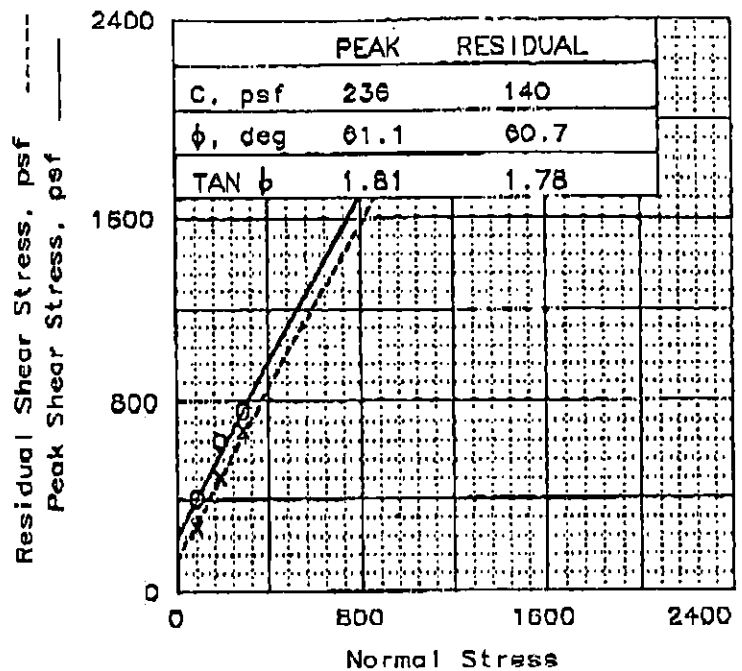
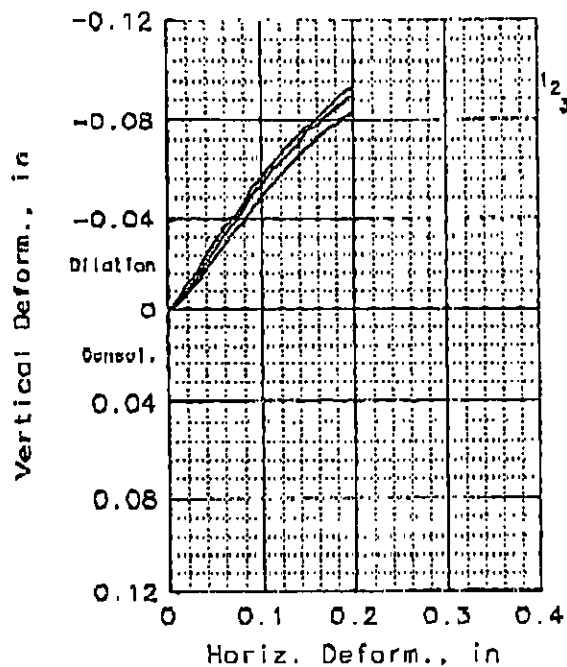
SAMPLE LOCATION: S-155

PROJ. NO.: 94S1749-15 DATE: 4-8-96

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.

FIG. NO.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	6.8	6.8	6.8
	DRY DENSITY, pcf	102.7	102.7	102.7
	SATURATION, %	29.5	29.5	29.5
	VOID RATIO	0.611	0.611	0.611
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	6.8	6.8	6.8
	DRY DENSITY, pcf	102.7	102.7	102.7
	SATURATION, %	29.5	29.5	29.5
	VOID RATIO	0.611	0.611	0.611
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		399	634	761
RESIDUAL SHEAR, psf		280	485	679
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA

SAMPLE TYPE:

DESCRIPTION: ALT-SELECT

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS:

CLIENT: CASHIN

PROJECT: EAST NORTHPORT

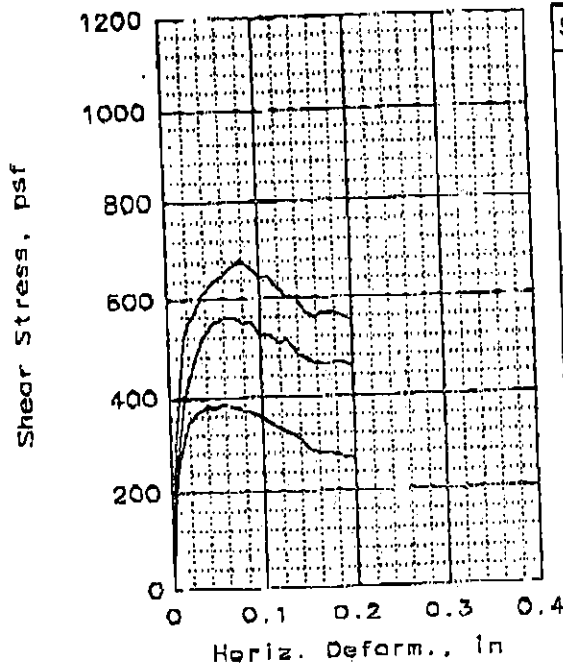
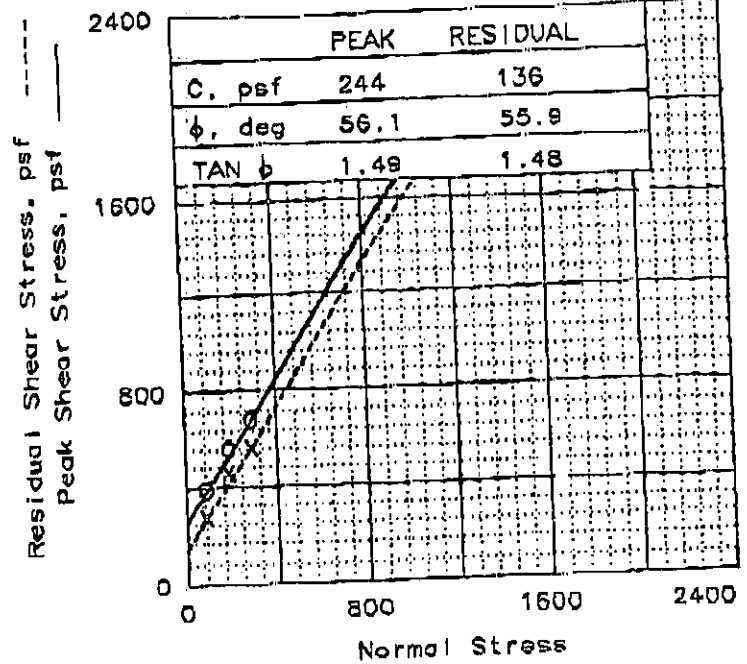
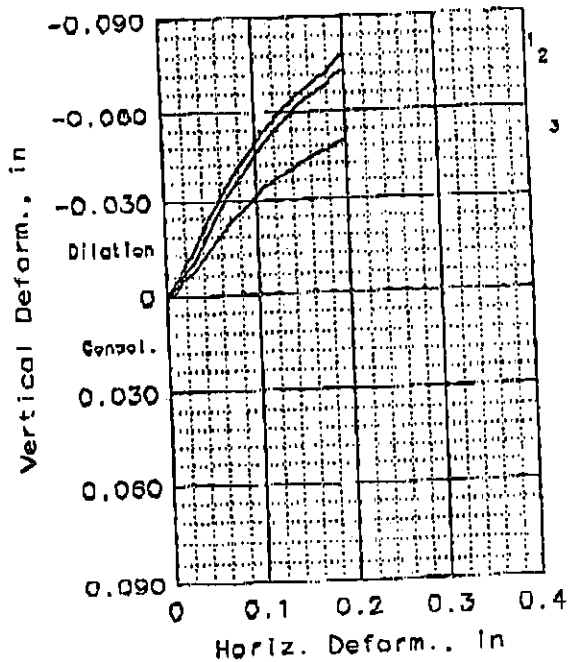
SAMPLE LOCATION: S-156

PROJ. NO.: 94S1748-15 DATE: 4-8-96

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.

FIG. NO.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	7.6	7.6	7.6
	DRY DENSITY, pcf	102.7	102.7	102.7
	SATURATION, %	33.0	33.0	33.0
	VOID RATIO	0.611	0.611	0.611
	SIDE LENGTH, in	2.50	2.50	2.50
AT TEST	HEIGHT, in	1.60	1.60	1.60
	WATER CONTENT, %	7.6	7.6	7.6
	DRY DENSITY, pcf	102.7	102.7	102.7
	SATURATION, %	33.0	33.0	33.0
	VOID RATIO	0.611	0.611	0.611
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
	NORMAL STRESS, psf	100	200	300
MAXIMUM SHEAR, psf		384	561	681
RESIDUAL SHEAR, psf		270	459	565
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA
 SAMPLE TYPE:
 DESCRIPTION: ALT-SELECT

LL= PL= PI=
 SPECIFIC GRAVITY= 2.65
 REMARKS:

CLIENT: CASHIN

PROJECT: EAST NORTHPORT

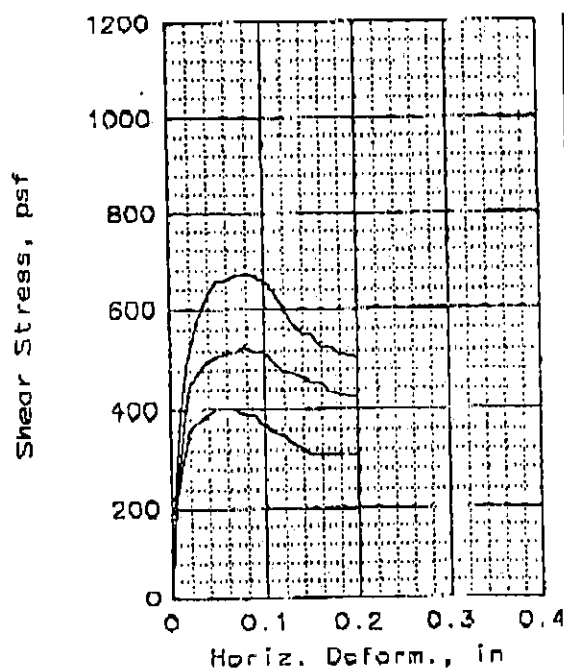
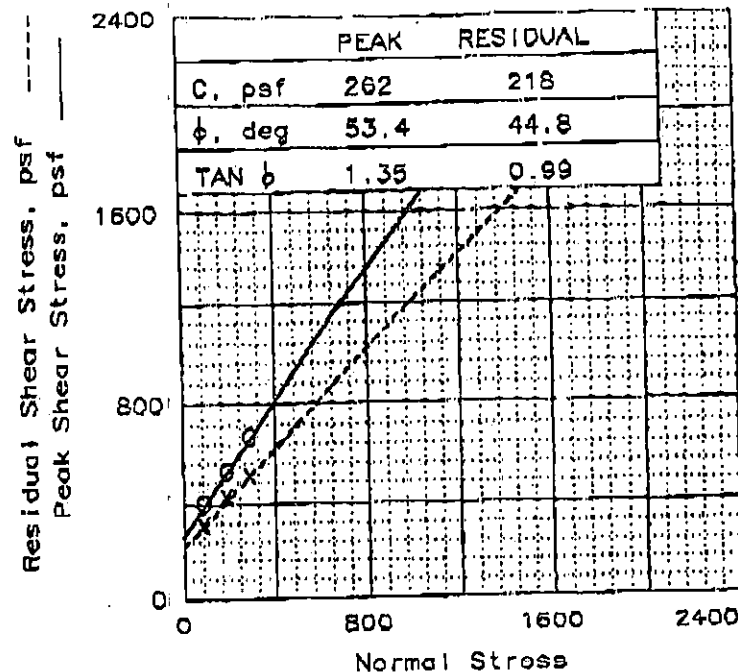
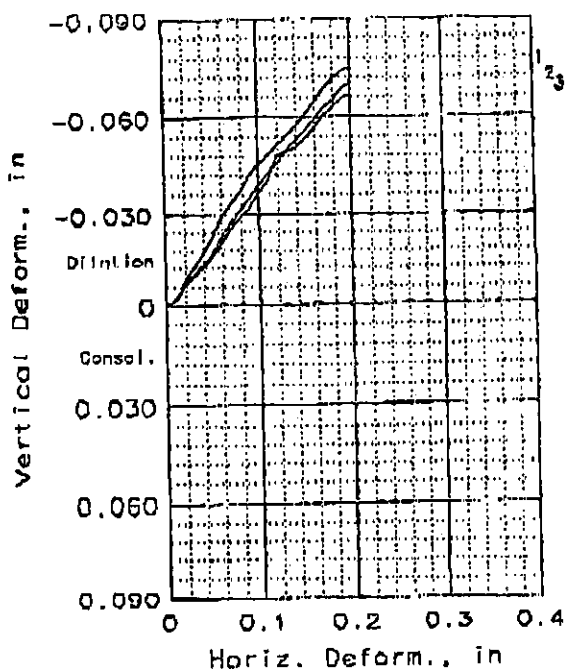
SAMPLE LOCATION: S-157

PROJ. NO.: 94S1749-15 DATE: 4-8-96

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.

FIG. NO.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	7.0	7.0	7.0
	DRY DENSITY, pcf	102.4	102.4	102.4
	SATURATION, %	30.1	30.1	30.1
	VOID RATIO	0.616	0.616	0.616
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	7.0	7.0	7.0
	DRY DENSITY, pcf	102.4	102.4	102.4
	SATURATION, %	30.1	30.1	30.1
	VOID RATIO	0.616	0.616	0.616
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		389	528	669
RESIDUAL SHEAR, psf		313	425	511
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA
 SAMPLE TYPE:
 DESCRIPTION: ALT-SELECT.

I.L.= PL= PI=
 SPECIFIC GRAVITY= 2.65
 REMARKS:

CLIENT: CASHIN

PROJECT: EAST NORTHPORT

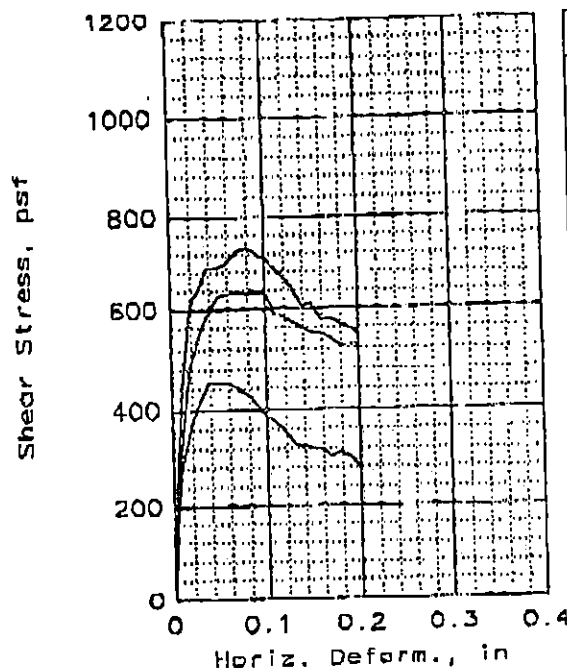
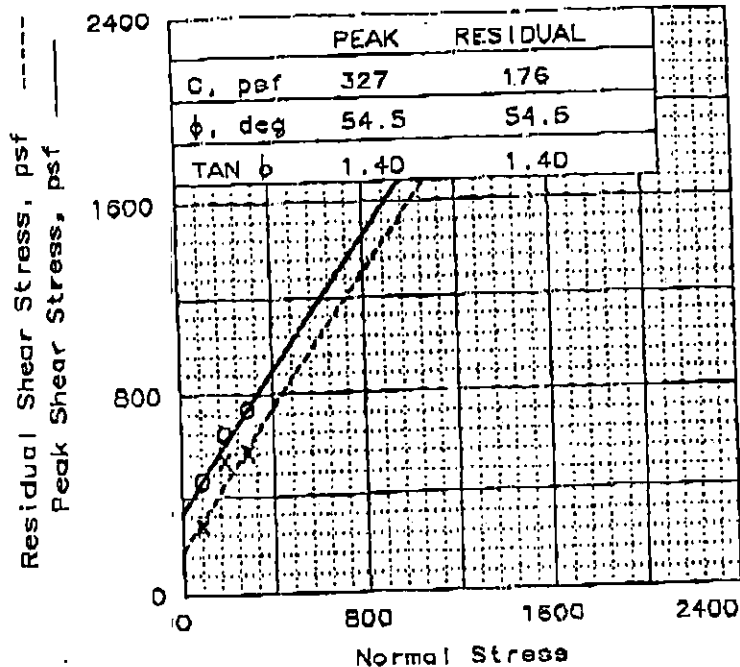
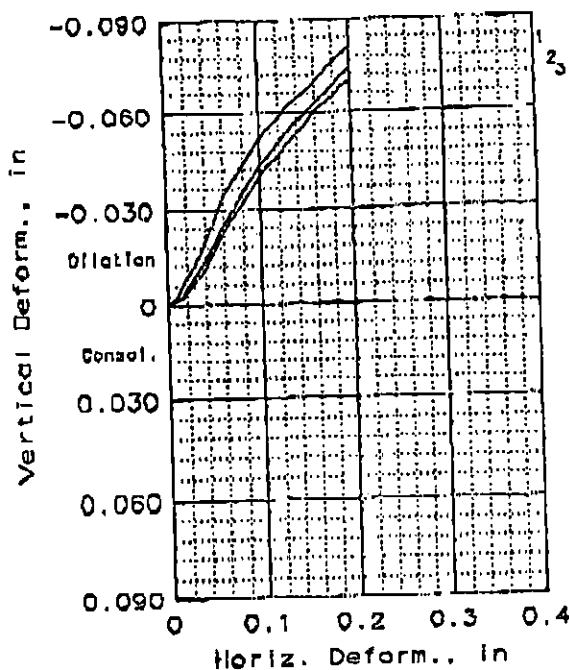
SAMPLE LOCATION: S-158

PROJ. NO.: 94S1749-15 DATE: 4-8-96

DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.

FIG. NO.



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	7.0	7.0	7.0
	DRY DENSITY, pcf	102.4	102.4	102.4
	SATURATION, %	30.1	30.1	30.1
	VOID RATIO	0.616	0.616	0.616
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	7.0	7.0	7.0
	DRY DENSITY, pcf	102.4	102.4	102.4
	SATURATION, %	30.1	30.1	30.1
	VOID RATIO	0.616	0.616	0.616
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		453	638	733
RESIDUAL SHEAR, psf		280	528	561
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA

SAMPLE TYPE:

DESCRIPTION: ALT-SELECT

LL=

PL=

PI=

SPECIFIC GRAVITY= 2.65

REMARKS:

CLIENT: CASHIN

PROJECT: EAST NORTHPORT

SAMPLE LOCATION: S-159

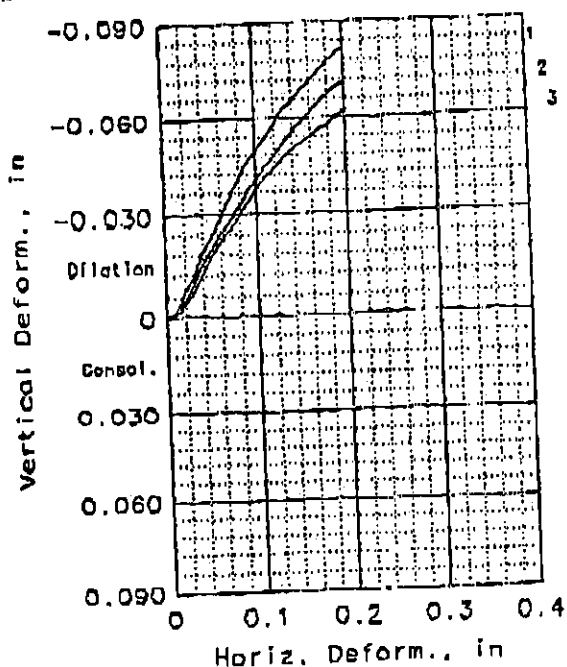
PROJ. NO.: 94S1749-15

DATE: 4-8-96

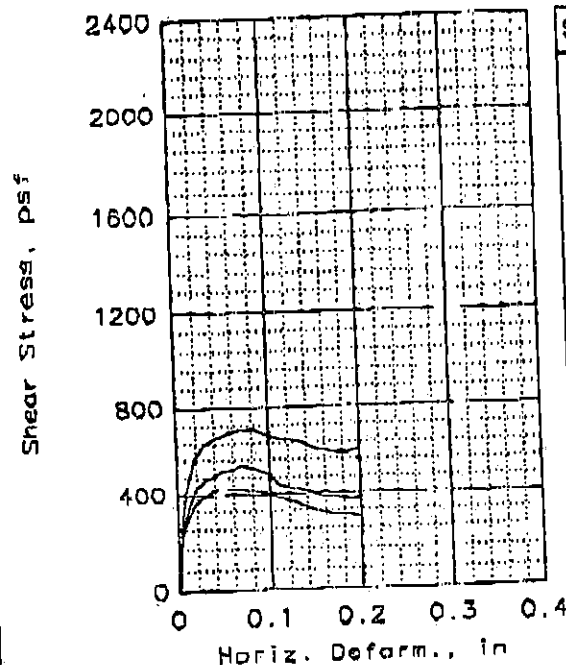
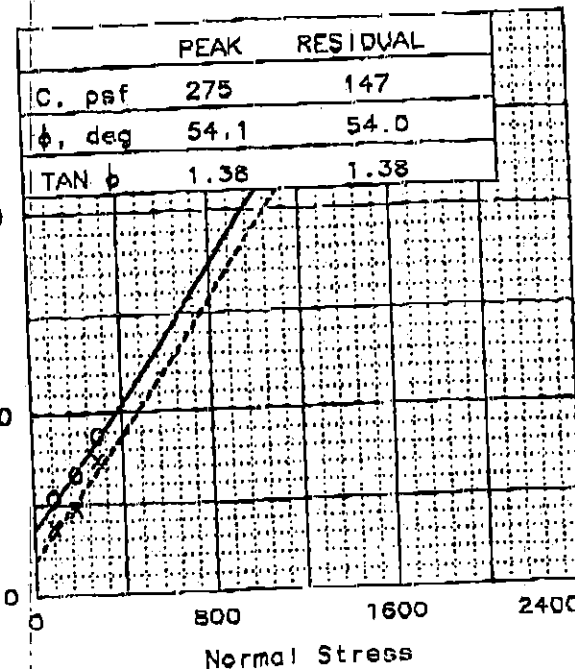
DIRECT SHEAR TEST REPORT

J & L TESTING CO., INC.

FIG. NO.



Residual Shear Stress, psf
Peak Shear Stress, psf



SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	7.6	7.6	7.6
	DRY DENSITY, pcf	102.6	102.6	102.6
	SATURATION, %	32.9	32.9	32.9
	VOID RATIO	0.612	0.612	0.612
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
AT TEST	WATER CONTENT, %	7.6	7.6	7.6
	DRY DENSITY, pcf	102.6	102.6	102.6
	SATURATION, %	32.9	32.9	32.9
	VOID RATIO	0.612	0.612	0.612
	SIDE LENGTH, in	2.50	2.50	2.50
	HEIGHT, in	1.60	1.60	1.60
NORMAL STRESS, psf		100	200	300
MAXIMUM SHEAR, psf		425	528	701
RESIDUAL SHEAR, psf		291	377	593
Strain rate, in/min		0.010	0.010	0.010

SAMPLE DATA

SAMPLE TYPE:

DESCRIPTION: ALT-SELECT

LL= PL= PI=

SPECIFIC GRAVITY= 2.65

REMARKS:

CLIENT: CASHIN

PROJECT: EAST NORTHPORT

SAMPLE LOCATION: S-160

PROJ. NO.: 84S1749-15 DATE: 4-9-96

DIRECT SHEAR TEST REPORT

J & I TESTING CO., INC.

FIG. NO.

APPENDIX J

INTERFACE FRICTION ANGLE

TEST RESULTS

Prepared for

GeoSyntec Consultants

1100 Lake Hearn Drive, N.E., Suite 200
Atlanta, Georgia 30342-1523

**FINAL REPORT
CONFORMANCE DIRECT SHEAR TESTING

HUNTINGTON/EAST NORTHPORT
LANDFILL CLOSURE

SUFFOLK COUNTY, NEW YORK**

Prepared by



GEOSYNTEC CONSULTANTS

5775 Peachtree Dunwoody Road, Suite 11D
Atlanta, Georgia 30342

Project Number GQ3700-03

1 August 1996

1. INTRODUCTION

This report was prepared by Mr. Robert H. Swan, Jr., Dr. Zehong Yuan, P.E., and Mr. Edward L. Fajardo, all of GeoSyntec Consultants (GeoSyntec), Atlanta, Georgia. The report was reviewed by Dr. Gary R. Schmertmann, P.E. (Georgia), also of GeoSyntec, in accordance with the internal peer review policy of the firm. The laboratory testing program described in this report was performed under the direction of Mr. Kenneth W. Cargill, P.E. of GeoSyntec at the request and authorization of Mr. Richard Dickstein, P.E., of the Town of Huntington, New York.

GeoSyntec conducted a laboratory testing program to evaluate: (i) the interface shearing resistance between various conformance samples of geocomposite, geomembrane, and site soil (i.e., alternate select fill) materials; (ii) the internal shearing resistance of various conformance samples of geocomposite materials; and (iii) the internal shearing resistance of a conformance sample of alternate select fill material, all used in the construction of the final closure system at the Huntington/ East Northport Landfill located in Suffolk County, New York. The sample preparation procedures and testing conditions used in the testing program were selected by Mr. Cargill of GeoSyntec in accordance with project specifications. All of the laboratory testing was conducted at GeoSyntec's Soil-Geosynthetic Interaction Testing Laboratory located in Atlanta, Georgia.

2. TESTING PROGRAM

2.1 Scope

The testing program consisted of 104 direct shear test series, including 40 geocomposite-geomembrane interface direct shear test series, 37 alternate select fill-geocomposite interface direct shear test series, 26 geocomposite internal strength direct shear test series, and one soil internal strength direct shear test series. Each direct shear test series consisted of three tests.

2.2 Testing Methods

All of the interface and geocomposite internal strength direct shear tests were performed in general accordance with the American Society for Testing and Materials (ASTM) Standard Test Method D 5321, *"Determining the Coefficient of Soil and*

Geosynthetic or Geosynthetic and Geosynthetic Friction by the Direct Shear Method". The tests were conducted in a large direct shear device containing an upper and lower shear box. The upper shear box measured 12 in. by 12 in. (300 mm by 300 mm) in plan and 3 in. (75 mm) in depth. The lower shear box measured 12 in. by 14 in. (300 mm by 350 mm) in plan and 3 in. (75 mm) in depth.

The soil internal strength direct shear tests were performed in general accordance with the ASTM Standard Test Method D 3080, *"Direct Shear Test of Soils Under Consolidated Drained Conditions"*. The tests were conducted in a large direct shear device containing an upper and lower shear box. The upper shear box measured 6 in. by 6 in. (150 mm by 150 mm) in plan and 3 in. (75 mm) in depth. The lower shear box measured 6 in. by 8 in. (150 mm by 200 mm) in plan and 3 in. (75 mm) in depth.

2.3 Geosynthetic and Soil Materials

The soil and geosynthetic materials used in the testing program are presented in Appendix A. All of the soil and geosynthetic materials were obtained from the project site by GeoSyntec field personnel.

2.4 Test Configuration and Procedures

The configuration of the test specimens and the specific test procedures used to conduct each of the direct shear tests are presented in Appendix B. The test procedures, test conditions, and test materials used in the laboratory testing program were selected by Mr. Cargill of GeoSyntec in accordance with project specifications.

3. TEST RESULTS

For all of the interface direct shear tests, sliding (shear failure) was observed to occur at the intended test interface. For the direct shear tests conducted on the geocomposite materials, it was observed that in Test Series 80, 86, 93, and 96 through 98 the geotextile components of the geocomposite were partially separated from the drainage component (i.e., mesh or geonet). In all of the other direct shear tests conducted on the geocomposite materials, no separation was observed and it appeared that excessive local stretching of the geotextile components had occurred. For the direct shear tests conducted on the alternate select fill material, shear failure was forced to occur along the shear plane between the upper and lower shear box.

The total-stress shearing resistance was evaluated for each applied normal stress. The test data were plotted on a graph of shear force versus horizontal displacement. The resulting plots are presented in the following appendices to this report: (i) Appendix C (geocomposite-geomembrane interface direct shear tests), (ii) Appendix D (alternate select fill-geocomposite interface direct shear tests), (iii) Appendix E (geocomposite internal strength direct shear tests), and (iv) Appendix F (alternate select fill internal strength direct shear tests). The peak value of shear force was used to calculate the peak shear strength. For this report, the residual shear strength was calculated using the stabilized post-peak shear force measured at the end of each test. For each interface and soil direct shear test, no area correction was used when computing normal and shear stresses because each test was performed using a constant effective sample area (i.e., the area of each geosynthetic specimen and/or lower shear box was larger than that of the upper shear box). For each geocomposite internal strength direct shear test, a constant shearing area of 1.0 ft² (0.1 m²) was assumed when computing normal and shear stresses.

The calculated shear strengths were plotted on a graph of shear stress versus normal stress and the results were used to evaluate total-stress peak and residual strength envelopes. A best-fit straight line was drawn through the data points from each test series to obtain total-stress peak and residual friction angles and adhesions/cohesions. The coefficient of correlation (R^2), a standard statistical indicator of how well the best-fit line matches the test data, was obtained for each best-fit line. The summary plots of shear stress versus normal stress for each test series are also presented in Appendices C, D, E, and F. The friction angles, adhesions/cohesions, and R^2 values derived from the plotted test results are presented in Table 1.

For each test series, it is noted that the reported adhesion/cohesion is the shear stress axis intercept of the best fit straight line drawn through the test data on a plot of shear stress versus normal stress. This value may not be the true adhesion/cohesion of the interface, geocomposite, or soil material and caution should be exercised in using this adhesion/cohesion value for applications involving normal stresses outside the range of stresses covered by the test series.

4. CLOSURE

The reported results apply only to the materials and test conditions used in the laboratory testing program. The results do not necessarily apply to other materials or test conditions. The test results should not be used in engineering analyses unless the test conditions model the anticipated field conditions. The testing was performed in accordance with general engineering testing standards and requirements. This testing report is submitted for the exclusive use of the Town of Huntington and GeoSyntec.

TABLE 1
DIRECT SHEAR TEST RESULTS
MEASURED TOTAL STRESS SHEAR STRENGTH PARAMETERS
HUNTINGTON/EAST NORTHPORT LANDFILL CLOSURE
SUFFOLK COUNTY, NEW YORK

Test Series Number	Interfaces Tested ⁽¹⁾	Normal Stress (psf)	Peak Strength ⁽²⁾			Residual Strength ⁽²⁾			Reference Appendix Figure Numbers
			Friction Angle	Adhesion (psf)	R ²	Friction Angle	Adhesion (psf)	R ²	
1	Akzo Geocomposite (CL-1) With Amoco Geotextile In Contact With Geomembrane/ 40-mil Gundle Textured VLDPE Geomembrane (CL-1) Under Wetted Conditions	150 to 450	29°	13	1.000	21°	16	1.000	C-1 and C-2
2	Akzo Geocomposite (CL-2) With Amoco Geotextile In Contact With Geomembrane/ 40-mil Gundle Textured VLDPE Geomembrane (CL-2) Under Wetted Conditions	150 to 450	31°	18	0.995	22°	20	0.993	C-3 and C-4
3	Akzo Geocomposite (CL-3) With Amoco Geotextile In Contact With Geomembrane/ 40-mil Gundle Textured VLDPE Geomembrane (CL-3) Under Wetted Conditions	150 to 450	36°	5	0.995	29°	9	0.975	C-5 and C-6
4	Akzo Geocomposite (CL-4) With Amoco Geotextile In Contact With Geomembrane/ 40-mil Gundle Textured VLDPE Geomembrane (CL-4) Under Wetted Conditions	150 to 450	29°	15	0.993	24°	9	0.980	C-7 and C-8
5	Akzo Geocomposite (CL-5) With Amoco Geotextile In Contact With Geomembrane/ 40-mil Gundle Textured VLDPE Geomembrane (CL-5) Under Wetted Conditions	150 to 450	28°	24	1.000	26°	7	0.999	C-9 and C-10
6	Akzo Geocomposite (CL-6) With Amoco Geotextile In Contact With Geomembrane/ 40-mil Gundle Textured VLDPE Geomembrane (CL-6) Under Wetted Conditions	150 to 450	27°	15	1.000	21°	13	0.997	C-11 and C-12
7	Akzo Geocomposite (CL-7) With Amoco Geotextile In Contact With Geomembrane/ 40-mil Gundle Textured VLDPE Geomembrane (CL-7) Under Wetted Conditions	150 to 450	27°	28	0.999	23°	27	0.965	C-13 and C-14
8	Akzo Geocomposite (CL-8) With Amoco Geotextile In Contact With Geomembrane/ 40-mil Gundle Textured VLDPE Geomembrane (CL-8) Under Wetted Conditions	150 to 450	28°	28	0.999	25°	6	0.969	C-15 and C-16
9	Akzo Geocomposite (CL-9) With Amoco Geotextile In Contact With Geomembrane/ 40-mil Gundle Textured VLDPE Geomembrane (CL-9) Under Wetted Conditions	150 to 450	28°	19	1.000	26°	6	0.999	C-17 and C-18
10	Akzo Geocomposite (CL-10) With Amoco Geotextile In Contact With Geomembrane/ 40-mil Gundle Textured VLDPE Geomembrane (CL-10) Under Wetted Conditions	150 to 450	27°	17	1.000	20°	30	1.000	C-19 and C-20

Notes: (1) See Appendix B for detailed test conditions and procedures.

(2) The reported value of adhesion may not be the true adhesion of the interface and caution should be exercised in using this adhesion value for applications involving normal stresses outside the range of stresses covered by the test series. The value of R², the coefficient of correlation, provides an indication of how well the best-fit shear strength parameters match the test data.

TABLE 1 - (Continued)

Test Series Number	Interfaces Tested ⁽¹⁾	Normal Stress (psf)	Peak Strength ⁽²⁾			Residual Strength ⁽²⁾			Reference Appendix Figure Numbers
			Friction Angle	Adhesion (psf)	R ²	Friction Angle	Adhesion (psf)	R ²	
11	Akzo Geocomposite (CL-11) With Amoco Geotextile In Contact With Geomembrane/ 40-mil Gundle Textured VLDPE Geomembrane (CL-11) Under Wetted Conditions	150 to 450	27°	23	0.999	23°	17	0.991	C-21 and C-22
12	Akzo Geocomposite (CL-12) With Amoco Geotextile In Contact With Geomembrane/ 40-mil Gundle Textured VLDPE Geomembrane (CL-12) Under Wetted Conditions	150 to 450	27°	17	0.999	24°	9	0.985	C-23 and C-24
13	Akzo Geocomposite (CL-13) With Amoco Geotextile In Contact With Geomembrane/ 40-mil Gundle Textured VLDPE Geomembrane (CL-13) Under Wetted Conditions	150 to 450	27°	53	0.999	20°	53	0.999	C-25 and C-26
14	Akzo Geocomposite (CL-14) With Amoco Geotextile In Contact With Geomembrane/ 40-mil Gundle Textured VLDPE Geomembrane (CL-14) Under Wetted Conditions	150 to 450	26°	24	0.998	22°	21	0.995	C-27 and C-28
15	Akzo Geocomposite (CL-15) With Amoco Geotextile In Contact With Geomembrane/ 40-mil Gundle Textured VLDPE Geomembrane (CL-15) Under Wetted Conditions	150 to 450	32°	34	0.999	27°	32	1.000	C-29 and C-30
16	Akzo Geocomposite (CL-16) With Amoco Geotextile In Contact With Geomembrane/ 40-mil Gundle Textured VLDPE Geomembrane (CL-16) Under Wetted Conditions	150 to 450	27°	39	0.996	18°	58	0.998	C-31 and C-32
17	Akzo Geocomposite (CL-17) With Amoco Geotextile In Contact With Geomembrane/ 40-mil Gundle Textured VLDPE Geomembrane (CL-17) Under Wetted Conditions	150 to 450	27°	0	0.997	21°	9	0.999	C-33 and C-34
18	Akzo Geocomposite (CL-18) With Amoco Geotextile In Contact With Geomembrane/ 40-mil Gundle Textured VLDPE Geomembrane (CL-18) Under Wetted Conditions	150 to 450	27°	54	0.991	18°	68	0.984	C-35 and C-36
19	Akzo Geocomposite (CL-19) With Amoco Geotextile In Contact With Geomembrane/ 40-mil Gundle Textured VLDPE Geomembrane (CL-19) Under Wetted Conditions	150 to 450	28°	86	0.996	23°	41	0.999	C-37 and C-38
20	Akzo Geocomposite (CL-20) With Amoco Geotextile In Contact With Geomembrane/ 40-mil Gundle Textured VLDPE Geomembrane (CL-20) Under Wetted Conditions	150 to 450	27°	57	0.966	23°	35	0.995	C-39 and C-40

Notes: (1) See Appendix B for detailed test conditions and procedures.

(2) The reported value of adhesion may not be the true adhesion of the interface and caution should be exercised in using this adhesion value for applications involving normal stresses outside the range of stresses covered by the test series. The value of R², the coefficient of correlation, provides an indication of how well the best-fit shear strength parameters match the test data.

TABLE 1 - (Continued)

Test Series Number	Interfaces Tested ⁽¹⁾	Normal Stress (psf)	Peak Strength ⁽²⁾			Residual Strength ⁽²⁾			Reference Appendix Figure Numbers
			Friction Angle	Adhesion (psf)	R ²	Friction Angle	Adhesion (psf)	R ²	
21	Akzo Geocomposite (CL-21) With Amoco Geotextile In Contact With Geomembrane/ 40-mil Gundle Textured VLDPE Geomembrane (CL-21) Under Wetted Conditions	150 to 450	29°	29	1.000	23°	33	1.000	C-41 and C-42
22	Akzo Geocomposite (CL-22) With Amoco Geotextile In Contact With Geomembrane/ 40-mil Gundle Textured VLDPE Geomembrane (CL-22) Under Wetted Conditions	150 to 450	27°	19	0.999	20°	28	0.999	C-43 and C-44
23	Akzo Geocomposite (CL-23) With Amoco Geotextile In Contact With Geomembrane/ 40-mil Gundle Textured VLDPE Geomembrane (CL-23) Under Wetted Conditions	150 to 450	27°	40	0.997	21°	42	0.998	C-45 and C-46
24	Akzo Geocomposite (CL-24) With Amoco Geotextile In Contact With Geomembrane/ 40-mil Gundle Textured VLDPE Geomembrane (CL-24) Under Wetted Conditions	150 to 450	27°	22	1.000	22°	20	0.995	C-47 and C-48
25	Akzo Geocomposite (CL-25) With Amoco Geotextile In Contact With Geomembrane/ 40-mil Gundle Textured VLDPE Geomembrane (CL-25) Under Wetted Conditions	150 to 450	28°	13	0.998	20°	6	0.992	C-49 and C-50
26	Akzo Geocomposite (CL-26) With Amoco Geotextile In Contact With Geomembrane/ 40-mil Gundle Textured VLDPE Geomembrane (CL-26) Under Wetted Conditions	150 to 450	27°	15	1.000	20°	19	0.998	C-51 and C-52
27	Akzo Geocomposite (CL-27) With Amoco Geotextile In Contact With Geomembrane/ 40-mil Gundle Textured VLDPE Geomembrane (CL-27) Under Wetted Conditions	150 to 450	32°	20	1.000	24°	33	0.990	C-53 and C-54
28	Akzo Geocomposite (CL-14A) With Amoco Geotextile In Contact With Geomembrane/ 40-mil Gundle Textured VLDPE Geomembrane (CL-14A) Under Wetted Conditions	150 to 450	29°	44	1.000	21°	47	0.989	C-55 and C-56
29	Akzo Geocomposite (CL-14B) With Amoco Geotextile In Contact With Geomembrane/ 40-mil Gundle Textured VLDPE Geomembrane (CL-14B) Under Wetted Conditions	150 to 450	27°	64	0.987	22°	37	0.991	C-57 and C-58
30	Akzo Geocomposite (CL-28) With Amoco Geotextile In Contact With Geomembrane/ 40-mil Gundle Textured VLDPE Geomembrane (CL-28) Under Wetted Conditions	150 to 450	28°	19	1.000	21°	22	0.998	C-59 and C-60

Notes: (1) See Appendix B for detailed test conditions and procedures.

(2) The reported value of adhesion may not be the true adhesion of the interface and caution should be exercised in using this adhesion value for applications involving normal stresses outside the range of stresses covered by the test series. The value of R², the coefficient of correlation, provides an indication of how well the best-fit shear strength parameters match the test data.

TABLE 1 - (Continued)

Test Series Number	Interfaces Tested ⁽¹⁾	Normal Stress (psf)	Peak Strength ⁽²⁾			Residual Strength ⁽²⁾			Reference Appendix Figure Numbers
			Friction Angle	Adhesion (psf)	R ²	Friction Angle	Adhesion (psf)	R ²	
31	Akzo Geocomposite (CL-29) With Amoco Geotextile In Contact With Geomembrane/40-mil Gundle Textured VLDPE Geomembrane (CL-29) Under Wetted Conditions	150 to 450	27°	22	1.000	21°	19	0.997	C-61 and C-62
32	Akzo Geocomposite (CL-30) With Amoco Geotextile In Contact With Geomembrane/40-mil Gundle Textured VLDPE Geomembrane (CL-30) Under Wetted Conditions	150 to 450	27°	45	0.999	21°	33	0.998	C-63 and C-64
33	Akzo Geocomposite (CL-31) With Amoco Geotextile In Contact With Geomembrane/40-mil Gundle Textured VLDPE Geomembrane (CL-31) Under Wetted Conditions	150 to 450	30°	22	0.999	25°	24	0.995	C-65 and C-66
34	Akzo Geocomposite (CL-32) With Amoco Geotextile In Contact With Geomembrane/40-mil Gundle Textured VLDPE Geomembrane (CL-32) Under Wetted Conditions	150 to 450	30°	44	0.999	23°	49	0.980	C-67 and C-68
35	Tensar Geocomposite (CL-33) With Trevira 1125 Geotextile In Contact With Geomembrane/40-mil Gundle Textured VLDPE Geomembrane (CL-33) Under Wetted Conditions	150 to 450	28°	68	0.975	20°	41	0.984	C-69 and C-70
36	Tensar Geocomposite (CL-34) With Trevira 1125 Geotextile In Contact With Geomembrane/40-mil Gundle Textured VLDPE Geomembrane (CL-34) Under Wetted Conditions	150 to 450	27°	76	0.994	19°	44	0.996	C-71 and C-72
37	Tensar Geocomposite (CL-35) With Trevira 1125 Geotextile In Contact With Geomembrane/40-mil Gundle Textured VLDPE Geomembrane (CL-35) Under Wetted Conditions	150 to 450	27°	54	0.981	23°	52	0.997	C-73 and C-74
38	Tensar Geocomposite (CL-36) With Trevira 1125 Geotextile In Contact With Geomembrane/40-mil Gundle Textured VLDPE Geomembrane (CL-36) Under Wetted Conditions	150 to 450	28°	54	0.999	24°	44	1.000	C-75 and C-76
39	Tensar Geocomposite (CL-37) With Trevira 1125 Geotextile In Contact With Geomembrane/40-mil Gundle Textured VLDPE Geomembrane (CL-37) Under Wetted Conditions	150 to 450	27°	79	0.995	20°	88	0.998	C-77 and C-78
40	Tensar Geocomposite (CL-38) With Trevira 1125 Geotextile In Contact With Geomembrane/40-mil Gundle Textured VLDPE Geomembrane (CL-38) Under Wetted Conditions	150 to 450	29°	36	1.000	27°	19	0.998	C-79 and C-80

Notes: (1) See Appendix B for detailed test conditions and procedures.

(2) The reported value of adhesion may not be the true adhesion of the interface and caution should be exercised in using this adhesion value for applications involving normal stresses outside the range of stresses covered by the test series. The value of R², the coefficient of correlation, provides an indication of how well the best-fit shear strength parameters match the test data.

TABLE 1 - (Continued)

Test Series Number	Interfaces Tested ⁽¹⁾	Normal Stress (psf)	Peak Strength ⁽²⁾			Residual Strength ⁽²⁾			Reference Appendix Figure Numbers
			Friction Angle	Adhesion (psf)	R ²	Friction Angle	Adhesion (psf)	R ²	
41	Alternate Select Fill (CS-1) At 90 % Compaction/Akzo Geocomposite (CS-1) With Colback Geotextile In Contact With Soil Under Wetted Conditions	150 to 450	31°	31	0.992	30°	17	0.993	D-1 and D-2
42	Alternate Select Fill (CS-2) At 90 % Compaction/Akzo Geocomposite (CS-2) With Colback Geotextile In Contact With Soil Under Wetted Conditions	150 to 450	35°	9	0.994	34°	9	0.992	D-3 and D-4
43	Alternate Select Fill (CS-3) At 90 % Compaction/Akzo Geocomposite (CS-3) With Colback Geotextile In Contact With Soil Under Wetted Conditions	150 to 450	35°	2	0.998	34°	0	0.999	D-5 and D-6
44	Alternate Select Fill (CS-4) At 90 % Compaction/Akzo Geocomposite (CS-4) With Colback Geotextile In Contact With Soil Under Wetted Conditions	150 to 450	30°	25	0.991	29°	21	0.997	D-7 and D-8
45	Alternate Select Fill (CS-5) At 90 % Compaction/Akzo Geocomposite (CS-5) With Colback Geotextile In Contact With Soil Under Wetted Conditions	150 to 450	32°	10	0.996	31°	11	0.988	D-9 and D-10
46	Alternate Select Fill (CS-6) At 90 % Compaction/Akzo Geocomposite (CS-6) With Colback Geotextile In Contact With Soil Under Wetted Conditions	150 to 450	34°	1	1.000	32°	2	0.998	D-11 and D-12
47	Alternate Select Fill (CS-7) At 90 % Compaction/Akzo Geocomposite (CS-7) With Colback Geotextile In Contact With Soil Under Wetted Conditions	150 to 450	34°	0	1.000	31°	3	1.000	D-13 and D-14
48	Alternate Select Fill (CS-8) At 90 % Compaction/Akzo Geocomposite (CS-8) With Colback Geotextile In Contact With Soil Under Wetted Conditions	150 to 450	32°	1	1.000	31°	0	0.997	D-15 and D-16
49	Alternate Select Fill (CS-9) At 90 % Compaction/Akzo Geocomposite (CS-9) With Colback Geotextile In Contact With Soil Under Wetted Conditions	150 to 450	32°	2	1.000	31°	3	1.000	D-17 and D-18
50	Alternate Select Fill (CS-10) At 90 % Compaction/Akzo Geocomposite (CS-10) With Colback Geotextile In Contact With Soil Under Wetted Conditions	150 to 450	34°	5	1.000	34°	3	1.000	D-19 and D-20

Notes: (1) See Appendix B for detailed test conditions and procedures.

(2) The reported value of adhesion may not be the true adhesion of the interface and caution should be exercised in using this adhesion value for applications involving normal stresses outside the range of stresses covered by the test series. The value of R², the coefficient of correlation, provides an indication of how well the best-fit shear strength parameters match the test data.

TABLE 1 - (Continued)

Test Series Number	Interfaces Tested ⁽¹⁾	Normal Stress (psf)	Peak Strength ⁽²⁾			Residual Strength ⁽²⁾			Reference Appendix Figure Numbers
			Friction Angle	Adhesion (psf)	R ²	Friction Angle	Adhesion (psf)	R ²	
51	Alternate Select Fill (CS-11) At 90% Compaction/Akzo Geocomposite (CS-11) With Colback Geotextile In Contact With Soil Under Wetted Conditions	150 to 450	36°	0	0.999	35°	0	0.999	D-21 and D-22
52	Alternate Select Fill (CS-12) At 85% Compaction/Akzo Geocomposite (CS-12) With Colback Geotextile In Contact With Soil Under Wetted Conditions	150 to 450	35°	15	0.998	35°	15	0.998	D-23 and D-24
53	Alternate Select Fill (CS-13) At 85% Compaction/Akzo Geocomposite (CS-13) With Colback Geotextile In Contact With Soil Under Wetted Conditions	150 to 450	34°	15	1.000	34°	15	1.000	D-25 and D-26
54	Alternate Select Fill (CS-14) At 85% Compaction/Akzo Geocomposite (CS-14) With Colback Geotextile In Contact With Soil Under Wetted Conditions	150 to 450	35°	18	1.000	35°	18	1.000	D-27 and D-28
55	Alternate Select Fill (CS-15) At 85% Compaction/Akzo Geocomposite (CS-15) With Colback Geotextile In Contact With Soil Under Wetted Conditions	150 to 450	36°	14	1.000	36°	14	1.000	D-29 and D-30
56	Alternate Select Fill (CS-16) At 85% Compaction/Akzo Geocomposite (CS-16) With Colback Geotextile In Contact With Soil Under Wetted Conditions	150 to 450	32°	13	0.999	32°	13	0.999	D-31 and D-32
57	Alternate Select Fill (CS-17) At 85% Compaction/Akzo Geocomposite (CS-17) With Colback Geotextile In Contact With Soil Under Wetted Conditions	150 to 450	32°	19	1.000	32°	19	1.000	D-33 and D-34
58	Alternate Select Fill (CS-18) At 85% Compaction/Akzo Geocomposite (CS-18) With Colback Geotextile In Contact With Soil Under Wetted Conditions	150 to 450	35°	9	0.999	35°	9	0.999	D-35 and D-36
59	Alternate Select Fill (CS-19) At 85% Compaction/Akzo Geocomposite (CS-19) With Colback Geotextile In Contact With Soil Under Wetted Conditions	150 to 450	34°	0	0.998	34°	0	0.998	D-37 and D-38
60	Alternate Select Fill (CS-20) At 85% Compaction/Akzo Geocomposite (CS-20) With Colback Geotextile In Contact With Soil Under Wetted Conditions	150 to 450	34°	0	0.995	34°	0	0.995	D-39 and D-40

- Notes:
- (1) See Appendix B for detailed test conditions and procedures.
 - (2) The reported value of adhesion may not be the true adhesion of the interface and caution should be exercised in using this adhesion value for applications involving normal stresses outside the range of stresses covered by the test series. The value of R², the coefficient of correlation, provides an indication of how well the best-fit shear strength parameters match the test data.

TABLE 1 - (Continued)

Test Series Number	Interfaces Tested ⁽¹⁾	Normal Stress (psf)	Peak Strength ⁽²⁾			Residual Strength ⁽²⁾			Reference Appendix Figure Numbers
			Friction Angle	Adhesion (psf)	R ²	Friction Angle	Adhesion (psf)	R ²	
61	Alternate Select Fill (CS-21) At 85% Compaction/Akzo Geocomposite (CS-21) With Colback Geotextile In Contact With Soil Under Wetted Conditions	150 to 450	31°	28	0.989	31°	28	0.989	D-41 and D-42
62	Alternate Select Fill (CS-22) At 85% Compaction/Akzo Geocomposite (CS-22) With Colback Geotextile In Contact With Soil Under Wetted Conditions	150 to 450	31°	39	0.998	31°	39	0.998	D-43 and D-44
63	Alternate Select Fill (CS-23) At 85% Compaction/Akzo Geocomposite (CS-23) With Colback Geotextile In Contact With Soil Under Wetted Conditions	150 to 450	31°	25	1.000	31°	25	1.000	D-45 and D-46
64	Alternate Select Fill (CS-24) At 85% Compaction/Akzo Geocomposite (CS-24) With Colback Geotextile In Contact With Soil Under Wetted Conditions	150 to 450	31°	23	0.998	31°	23	0.998	D-47 and D-48
65	Alternate Select Fill (CS-25) At 85% Compaction/Akzo Geocomposite (CS-25) With Colback Geotextile In Contact With Soil Under Wetted Conditions	150 to 450	32°	16	0.997	32°	16	0.997	D-49 and D-50
66	Alternate Select Fill (CS-26) At 85% Compaction/Akzo Geocomposite (CS-26) With Colback Geotextile In Contact With Soil Under Wetted Conditions	150 to 450	30°	23	0.998	30°	23	0.998	D-51 and D-52
67	Alternate Select Fill (CS-27) At 85% Compaction/Akzo Geocomposite (CS-27) With Colback Geotextile In Contact With Soil Under Wetted Conditions	150 to 450	31°	18	0.999	31°	18	0.999	D-53 and D-54
68	Alternate Select Fill (CS-28) At 85% Compaction/Akzo Geocomposite (CS-28) With Colback Geotextile In Contact With Soil Under Wetted Conditions	150 to 450	31°	9	1.000	31°	9	1.000	D-55 and D-56
69	Alternate Select Fill (CS-29) At 85% Compaction/Akzo Geocomposite (CS-29) With Colback Geotextile In Contact With Soil Under Wetted Conditions	150 to 450	34°	0	0.999	34°	0	0.999	D-57 and D-58
70	Alternate Select Fill (CS-30) At 85% Compaction/Akzo Geocomposite (CS-30) With Colback Geotextile In Contact With Soil Under Wetted Conditions	150 to 450	34°	4	0.999	34°	4	0.999	D-59 and D-60

- Notes:
- (1) See Appendix B for detailed test conditions and procedures.
 - (2) The reported value of adhesion may not be the true adhesion of the interface and caution should be exercised in using this adhesion value for applications involving normal stresses outside the range of stresses covered by the test series. The value of R², the coefficient of correlation, provides an indication of how well the best-fit shear strength parameters match the test data.

TABLE 1 (Continued)

Test Series Number	Interfaces GCLs Tested ⁽¹⁾	Normal Stress (psf)	Peak Strength ⁽²⁾			Residual Strength ⁽²⁾			Reference Appendix Figure Numbers
			Friction Angle	Adhesion (psf)	R ²	Friction Angle	Adhesion (psf)	R ²	
71	Alternate Select Fill (CS-31) At 85 % Compaction/Akzo Geocomposite (CS-31) With Colback Geotextile In Contact With Soil Under Wetted Conditions	150 to 450	35°	6	0.992	35°	6	0.992	D-61 and D-62
72	Alternate Select Fill (CS-32) At 85 % Compaction/Akzo Geocomposite (CS-32) With Colback Geotextile In Contact With Soil Under Wetted Conditions	150 to 450	35°	9	0.996	35°	9	0.9996	D-63 and D-64
73	Alternate Select Fill (CS-33) At 85 % Compaction/Tensar Geocomposite (CS-33) With Trevira 1120 Geotextile In Contact With Soil Under Wetted Conditions	150 to 450	34°	10	0.989	34°	10	0.989	D-65 and D-66
74	Alternate Select Fill (CS-34) At 85 % Compaction/Tensar Geocomposite (CS-34) With Trevira 1120 Geotextile In Contact With Soil Under Wetted Conditions	150 to 450	30°	22	0.989	30°	22	0.989	D-67 and D-68
75	Alternate Select Fill (CS-35) At 85 % Compaction/Tensar Geocomposite (CS-35) With Trevira 1120 Geotextile In Contact With Soil Under Wetted Conditions	150 to 450	35°	11	0.994	35°	11	0.994	D-69 and D-70
76	Alternate Select Fill (CS-36) At 85 % Compaction/Tensar Geocomposite (CS-36) With Trevira 1120 Geotextile In Contact With Soil Under Wetted Conditions	150 to 450	30°	27	1.000	30°	27	1.000	D-71 and D-72
77	Alternate Select Fill (CS-37) At 85 % Compaction/Tensar Geocomposite (CS-37) With Trevira 1120 Geotextile In Contact With Soil Under Wetted Conditions	150 to 450	31°	25	0.993	31°	25	0.993	D-73 and D-74
78	Internal Strength of Akzo Geocomposite (CL-12) Under Wetted Conditions	150 to 450	37°	391	0.981	N/A ⁽³⁾	N/A ⁽³⁾	N/A ⁽³⁾	E-1 and E-2
79	Internal Strength of Akzo Geocomposite (CL-13) Under Wetted Conditions	150 to 450	48°	376	0.998	N/A ⁽³⁾	N/A ⁽³⁾	N/A ⁽³⁾	E-3 and E-4
80	Internal Strength of Akzo Geocomposite (CL-14) Under Wetted Conditions	150 to 450	40°	471	0.991	34°	244	0.994	E-5 and E-6

- Notes:
- (1) See Appendix B for detailed test conditions and procedures.
 - (2) The reported value of adhesion may not be the true adhesion of the interface and caution should be exercised in using this adhesion value for applications involving normal stresses outside the range of stresses covered by the test series. The value of R², the coefficient of correlation, provides an indication of how well the best-fit shear strength parameters match the test data.
 - (3) N/A refers to the fact that the geotextile components were not separated from the geonet / drainage mesh.

TABLE 1 - (Continued)

Test Series Number	GCLs Tested ⁽¹⁾	Normal Stress (psf)	Peak Strength ⁽²⁾			Residual Strength ⁽²⁾			Reference Appendix Figure Numbers
			Friction Angle	Adhesion (psf)	R ²	Friction Angle	Adhesion (psf)	R ²	
81	Internal Strength Of Akzo Geocomposite (CL-15) Under Wetted Conditions	150 to 450	42°	279	1.000	N/A ⁽³⁾	N/A ⁽³⁾	N/A ⁽³⁾	E-7 and E-8
82	Internal Strength Of Akzo Geocomposite (CL-16) Under Wetted Conditions	150 to 450	46°	451	0.990	N/A ⁽³⁾	N/A ⁽³⁾	N/A ⁽³⁾	E-9 and E-10
83	Internal Strength Of Akzo Geocomposite (CL-17) Under Wetted Conditions	150 to 450	45°	368	1.000	N/A ⁽³⁾	N/A ⁽³⁾	N/A ⁽³⁾	E-11 and E-12
84	Internal Strength Of Akzo Geocomposite (CL-18) Under Wetted Conditions	150 to 450	47°	413	0.999	N/A ⁽³⁾	N/A ⁽³⁾	N/A ⁽³⁾	E-13 and E-14
85	Internal Strength Of Akzo Geocomposite (CL-19) Under Wetted Conditions	150 to 450	41°	464	0.960	N/A ⁽³⁾	N/A ⁽³⁾	N/A ⁽³⁾	E-15 and E-16
86	Internal Strength Of Akzo Geocomposite (CL-20) Under Wetted Conditions	150 to 450	37°	308	0.998	23°	4	1.000	E-17 and E-18
87	Internal Strength Of Akzo Geocomposite (CL-21) Under Wetted Conditions	150 to 450	49°	445	0.991	N/A ⁽³⁾	N/A ⁽³⁾	N/A ⁽³⁾	E-19 and E-20
88	Internal Strength Of Akzo Geocomposite (CL-22) Under Wetted Conditions	150 to 450	48°	466	0.998	N/A ⁽³⁾	N/A ⁽³⁾	N/A ⁽³⁾	E-21 and E-22
89	Internal Strength Of Akzo Geocomposite (CL-23) Under Wetted Conditions	150 to 450	53°	383	0.999	N/A ⁽³⁾	N/A ⁽³⁾	N/A ⁽³⁾	E-23 and E-24
90	Internal Strength Of Akzo Geocomposite (CL-24) Under Wetted Conditions	150 to 450	55°	331	0.998	N/A ⁽³⁾	N/A ⁽³⁾	N/A ⁽³⁾	E-25 and E-26

- Notes:
- (1) See Appendix B for detailed test conditions and procedures.
 - (2) The reported value of adhesion may not be the true adhesion of the GCL and caution should be exercised in using this adhesion value for applications involving normal stresses outside the range of stresses covered by the test series. The value of R², the coefficient of correlation, provides an indication of how well the best-fit shear strength parameters match the test data.
 - (3) N/A refers to the fact that the geotextile components were not separated from the geonet / drainage mesh.

TABLE 1 - (Continued)

Test Series Number	GCLs or Soil Specimen Tested ⁽¹⁾	Normal Stress (psf)	Peak Strength ⁽²⁾			Residual Strength ⁽²⁾			Reference Appendix Figure Numbers
			Friction Angle	Adhesion/ Cohesion (psf)	R ²	Friction Angle	Adhesion/ Cohesion (psf)	R ²	
91	Internal Strength Of Akzo Geocomposite (CL-25) Under Wetted Conditions	150 to 450	57°	212	0.999	N/A ⁽³⁾	N/A ⁽³⁾	N/A ⁽³⁾	E-27 and E-28
92	Internal Strength Of Akzo Geocomposite (CL-26) Under Wetted Conditions	150 to 450	52°	331	0.983	N/A ⁽³⁾	N/A ⁽³⁾	N/A ⁽³⁾	E-29 and E-30
93	Internal Strength Of Akzo Geocomposite (CL-27) Under Wetted Conditions	150 to 450	32°	89	1.000	18°	39	0.997	E-31 and E-32
94	Internal Strength Of Akzo Geocomposite (CL-28) Under Wetted Conditions	150 to 450	49°	407	0.994	N/A ⁽³⁾	N/A ⁽³⁾	N/A ⁽³⁾	E-33 and E-34
95	Internal Strength Of Akzo Geocomposite (CL-29) Under Wetted Conditions	150 to 450	59°	221	0.999	N/A ⁽³⁾	N/A ⁽³⁾	N/A ⁽³⁾	E-35 and E-36
96	Internal Strength Of Akzo Geocomposite (CL-30) Under Wetted Conditions	150 to 450	51°	161	0.956	25°	23	0.974	E-37 and E-38
97	Internal Strength Of Akzo Geocomposite (CL-31) Under Wetted Conditions	150 to 450	32°	290	1.000	23°	60	1.000	E-39 and E-40
98	Internal Strength Of Akzo Geocomposite (CL-32) Under Wetted Conditions	150 to 450	53°	132	0.956	24°	9	0.890	E-41 and E-42
99	Internal Strength Of Tensar Geocomposite (CS-33) Under Wetted Conditions	150 to 450	52°	450	0.959	N/A ⁽³⁾	N/A ⁽³⁾	N/A ⁽³⁾	E-43 and E-44
100	Internal Strength Of Tensar Geocomposite (CS-34) Under Wetted Conditions	150 to 450	47°	611	0.967	N/A ⁽³⁾	N/A ⁽³⁾	N/A ⁽³⁾	E-45 and E-46
101	Internal Strength Of Tensar Geocomposite (CS-35) Under Wetted Conditions	150 to 450	55°	519	0.986	N/A ⁽³⁾	N/A ⁽³⁾	N/A ⁽³⁾	E-47 and E-48
102	Internal Strength Of Tensar Geocomposite (CS-36) Under Wetted Conditions	150 to 450	43°	759	1.000	N/A ⁽³⁾	N/A ⁽³⁾	N/A ⁽³⁾	E-49 and E-50
103	Internal Strength Of Tensar Geocomposite (CL-37) Under Wetted Conditions	150 to 450	31°	759	0.999	N/A ⁽³⁾	N/A ⁽³⁾	N/A ⁽³⁾	E-51 and E-52
104	Internal Strength Of Alternate Select Fill (S-101) Under Wetted Conditions	100 to 300	37°	23	0.999	32°	7	1.000	F-1 and F-2

- Notes:
- (1) See Appendix B for detailed test conditions and procedures.
 - (2) The reported value of adhesion may not be the true adhesion 1 cohesion of the interface, geocomposite, or soil specimen and caution should be exercised in using this adhesion 1 cohesion value for applications involving normal stresses outside the range of stresses covered by the test series. The value of R², the coefficient of correlation, provides an indication of how well the best-fit shear strength parameters match the test data.
 - (3) N/A refers to the fact that the geotextile components were not separated from the geonet / drainage mesh.

APPENDIX A

GEOSYNTHETIC AND SOIL MATERIALS

Geosynthetic Materials

Three types of geosynthetic materials were used in the testing program. These materials are referenced by name in this report and include:

- 40-mil (1.0-mm) thick Gundle Lining Systems, Inc. (Gundle) textured very low density polyethylene (VLDPE) geomembrane, referred to as 40-mil Gundle textured VLDPE geomembrane;
- Akzo Nobel Geosynthetics Company (Akzo) geocomposite consisting of an Amoco nonwoven geotextile heat-bonded to one side of the drainage mesh component and a Colback nonwoven geotextile heat-bonded to the other side of the drainage mesh component, referred to as Akzo geocomposite; and
- The Tensar Corporation (Tensar) geocomposite consisting of a Trevira 1120 nonwoven geotextile heat-bonded to one side of the geonet component and a Trevira 1125 nonwoven geotextile heat-bonded to the other side of the geonet component, referred to as Tensar geocomposite.

Bulk conformance samples of the geomembrane and two geocomposite materials used in the testing program were obtained from the project site by GeoSyntec field personnel under supervision of Mr. Cargill. Each of the bulk samples was obtained from a specific roll/location as described in other related project documents and assigned a bulk sample number at the project site for tracking purposes. For each type of geosynthetic the following samples were recieved from the project site: (i) 40-mil Gundle textured VLDPE geomembrane - a total of 40 samples identified as CL-1 through CL-38, CL-14A, and CL-14B; (ii) Akzo geocomposite - a total of 66 samples identified as CL-1 through CL-32, CS-1 through CS-32, CL-14A, and CL-14B; and (iii) Tensar geocomposite - a total of 11 samples identified as CL-33 through CL-38 and CS-33 through CS-37. The bulk sample number of each geosynthetic material used in each test series is presented in Table 1.

Soil Materials

An "alternate select fill" material was used in the testing program. Bulk samples of the alternate select fill were obtained from specific locations at the project site by GeoSyntec field personnel as described in other related project documents. Each bulk sample was assigned a sample number at the project site for tracking purposes. A total of 37 samples of alternate select fill material were recieved at the laboratory for interface direct shear testing, identified as CS-1 through CS-37, and one sample of alternate select fill material was recieved at the laboratory for soil direct shear testing, identified as S-101. The bulk sample number of the alternate select fill used in each test series is presented in Table 1. The compaction characteristics of the alternate select fill material were determined by GeoSyntec and reported elsewhere. A concrete sand was provided by GeoSyntec to fill the lower and/or upper shear boxes and serve as a bedding layer below and/or above each test interface in the interface direct shear tests.

APPENDIX B

TEST PROCEDURES AND CONDITIONS

**TEST PROCEDURES AND CONDITIONS
TEST SERIES NUMBERS: 1 THROUGH 34**

Test Specimen Configuration (from top to bottom) and Placement Conditions:

- upper shear box: bedding layer of compacted concrete sand;
- Akzo geocomposite (sample Numbers CL-1 through CL-32, 14A, and 14B) with Amoco geotextile against geomembrane;
- 40-mil Gundle textured VLDPE geomembrane (sample Numbers CL-1 through CL-32, 14A, and 14B); and
- lower shear box: bedding layer of compacted concrete sand.

Test Interface: geocomposite against geomembrane

Test Procedures for Each Normal Stress Condition:

- A fresh specimen of concrete sand was compacted into the lower shear box by hand tamping to a relatively dense state under dry conditions forming a 3 in. thick bedding layer.
- A fresh specimen of geomembrane was trimmed from the bulk sample and attached to the lower shear box with mechanical compression clamps.
- A fresh specimen of geocomposite was trimmed from the bulk sample and attached to the upper shear box with mechanical compression clamps. The geocomposite was oriented so that the Amoco geotextile component of the geocomposite was in contact with the geomembrane.
- A fresh specimen of concrete sand was compacted into the upper shear box by hand tamping to a relatively dense state under dry conditions forming a 3 in. thick upper bedding layer.
- Wetting conditions: the concrete sand, geocomposite, and upper surface of the geomembrane were wetted, prior to being sheared, by pouring tap water on top of the compacted concrete sand and allowing the water to drain at the test interface.
- Test normal stresses: 150, 300, and 450 psf.
- Constant shear displacement rate: 0.2 in/min.
- The direction of shear for each interface direct shear test was in the direction of manufacture (machine direction) of the geosynthetic samples.
- Each test was sheared until a constant, residual shear load was recorded.

TEST PROCEDURES AND CONDITIONS
TEST SERIES NUMBERS: 35 THROUGH 40

Test Specimen Configuration (from top to bottom) and Placement Conditions:

- upper shear box: bedding layer of compacted concrete sand;
- Tensar geocomposite (sample Numbers CL-33 through CL-38) with Trevira 1125 geotextile against geomembrane;
- 40-mil Gundle textured VLDPE geomembrane (sample Numbers CL-33 through CL-38); and
- lower shear box: bedding layer of compacted concrete sand.

Test Interface: geocomposite against geomembrane

Test Procedures for Each Normal Stress Condition:

- A fresh specimen of concrete sand was compacted into the lower shear box by hand tamping to a relatively dense state under dry conditions forming a 3 in. thick bedding layer.
- A fresh specimen of geomembrane was trimmed from the bulk sample and attached to the lower shear box with mechanical compression clamps.
- A fresh specimen of geocomposite was trimmed from the bulk sample and attached to the upper shear box with mechanical compression clamps. The geocomposite was oriented so that the Trevira 1125 geotextile component of the geocomposite was in contact with the geomembrane.
- A fresh specimen of concrete sand was compacted into the upper shear box by hand tamping to a relatively dense state under dry conditions forming a 3 in. thick upper bedding layer.
- Wetting conditions: the concrete sand, geocomposite, and upper surface of the geomembrane were wetted, prior to being sheared, by pouring tap water on top of the compacted concrete sand and allowing the water to drain at the test interface.
- Test normal stresses: 150, 300, and 450 psf.
- Constant shear displacement rate: 0.2 in/min.
- The direction of shear for each interface direct shear test was in the direction of manufacture (machine direction) of the geosynthetic samples.
- Each test was sheared until a constant, residual shear load was recorded.

TEST PROCEDURES AND CONDITIONS
TEST SERIES NUMBERS: 41 TO 51

Test Specimen Configuration (from top to bottom) and Placement Conditions:

- upper shear box: alternate select fill (sample Numbers CS-1 through CS-11) initially placed at a dry unit weight of 116.8 to 117.9 pcf and a moisture content of 7.3 to 8.3%. Final moisture content ranged from 11.9 to 14.9%;
- Akzo geocomposite (sample Numbers CS-1 through CS-11) with Colback geotextile against soil; and
- lower shear box: bedding layer of compacted concrete sand.

Test Interface: upper soil against geocomposite

Test Procedures for Each Normal Stress Condition:

- A fresh specimen of concrete sand was compacted into the lower shear box by hand tamping to a relatively dense state under dry conditions forming a 3 in. thick bedding layer.
- A fresh specimen of geocomposite was trimmed from the bulk sample and attached to the lower shear box with mechanical compression clamps. The geocomposite was oriented so that the Colback geotextile component of the Akzo geocomposite faced upward.
- A fresh specimen of the upper soil was compacted directly on top of the geocomposite specimen. The initial target compaction conditions (i.e., dry unit weight and moisture content) corresponded to 90 percent of the maximum dry unit weight and the optimum moisture content based on the results of modified Proctor compaction test performed by GeoSyntec.
- Wetting conditions: the upper soil and geocomposite specimens were wetted, prior to being sheared, by pouring tap water on top of the upper soil specimen and allowing the water to drain at the test interface.
- Test normal stresses: 150, 300, and 450 psf.
- Constant shear displacement rate: 0.04 in/min.
- The direction of shear for each interface direct shear test was in the direction of manufacture (machine direction) of the Akzo geocomposite sample.
- Each test was sheared until a constant, residual shear load was recorded.

TEST PROCEDURES AND CONDITIONS

TEST SERIES NUMBERS: 52 TO 77

Test Specimen Configuration (from top to bottom) and Placement Conditions:

- upper shear box: alternate select fill (sample Numbers CS-12 through CS-37) initially placed at a dry unit weight of 109.2 to 110.9 pcf and a moisture content of 6.2 to 7.0%. Final moisture content ranged from 12.2 to 14.2%;
- Akzo geocomposite (sample Numbers CS-12 through CS-32) with Colback geotextile against soil or Tensar geocomposite (sample Numbers CS-33 through CS-37) with Trevira 1120 geotextile in contact with soil; and
- lower shear box: bedding layer of compacted concrete sand.

Test Interface: upper soil against geocomposite

Test Procedures for Each Normal Stress Condition:

- A fresh specimen of concrete sand was compacted into the lower shear box by hand tamping to a relatively dense state under dry conditions forming a 3 in. thick bedding layer.
- A fresh specimen of geocomposite was trimmed from the bulk sample and attached to the lower shear box with mechanical compression clamps. The geocomposite was oriented so that the Colback geotextile component of the Akzo geocomposite or the Trevira 1120 geotextile of the Tensar geocomposite faced upward.
- A fresh specimen of the upper soil was compacted directly on top of the geocomposite specimen. The initial target compaction conditions (i.e., dry unit weight and moisture content) corresponded to 85 percent of the maximum dry unit weight and the optimum moisture content based on the results of modified Proctor compaction test performed by GeoSyntec.
- Wetting conditions: the upper soil and geocomposite specimens were wetted, prior to being sheared, by pouring tap water on top of the upper soil specimen and allowing the water to drain at the test interface.
- Test normal stresses: 150, 300, and 450 psf.
- Constant shear displacement rate: 0.04 in/min.
- The direction of shear for each interface direct shear test was in the direction of manufacture (machine direction) of the Akzo geocomposite sample.
- Each test was sheared until a constant, residual shear load was recorded.

TEST PROCEDURES AND CONDITIONS
TEST SERIES NUMBERS: 78 to 103

Test Specimen Configuration (from top to bottom) and Placement Conditions:

- upper shear box: rigid substrate with textured steel gripping surface;
- Akzo geocomposite (sample Numbers CL-12 through CL-32) or Tensar geocomposite (sample Numbers CL-33 through CL-37); and
- lower shear box: rigid substrate with textured steel gripping surface.

Test Interface: Within geocomposite

Test Procedures for Each Normal Stress Condition:

- A fresh geocomposite specimen was trimmed from the bulk sample and constrained between two rigid wooden substrates with the use of textured steel gripping surfaces. The ends of each geotextile were then sandwiched between a second rigid wooden substrate prior to testing. The entire test specimen was then placed in the shear box for testing. The textured steel gripping surfaces were employed to minimize slippage between each geotextile component of the geocomposite and rigid wooden substrate, thereby promoting a relatively uniform transfer of shear load into the geocomposite specimen.
- Wetting conditions: the geocomposite was wetted, prior to being sheared, by pouring tap water on top of the geocomposite specimen.
- Test normal stresses: 150, 300, or 450 psf.
- Constant displacement rate: 0.2 in/min.
- The direction of shear for each direct shear test was in the direction of manufacture (machine direction) of the geocomposite sample.
- Each test was sheared until a constant, residual shear load was recorded.

TEST PROCEDURES AND CONDITIONS
TEST SERIES NUMBER: 104

Test Specimen Configuration (from top to bottom) and Placement Conditions:

- rigid substrate;
- alternate select fill (sample Number S-101) material initially placed at a dry unit weight of 110.1 to 110.7 pcf and a moisture content of 7.0 to 7.3%. Final moisture content ranged for 12.8 to 14.3% for the test series; and
- rigid substrate.

Shear Plane: within the soil specimen

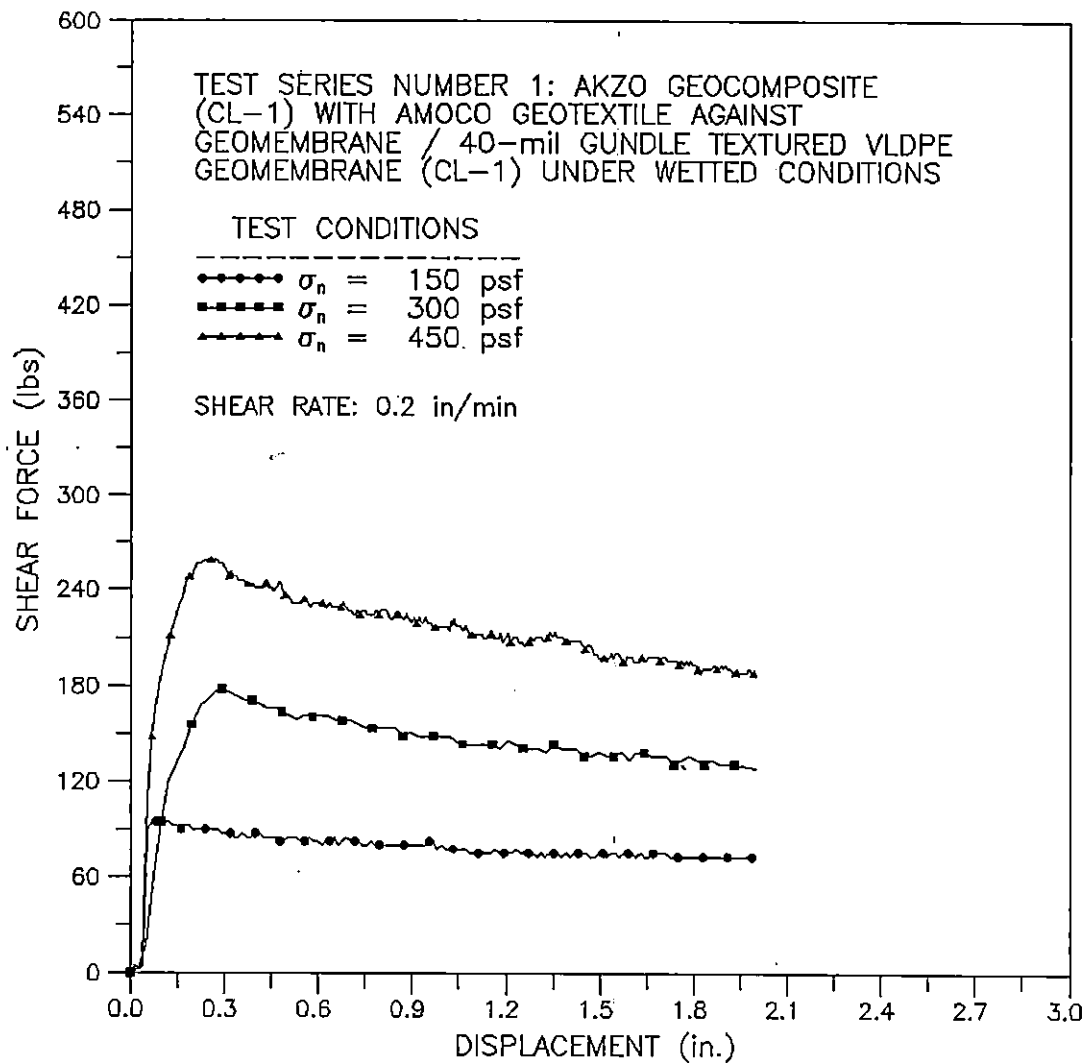
Test Procedures for Each Normal Stress Condition:

- A fresh specimen of the alternate select fill material was moisture-conditioned and compacted in three 2-in. thick lifts within the lower and upper shear boxes, to form a 6-in thick test specimen. Each lift was compacted by hand tamping to the reported dry unit weight. The initial target compaction conditions (i.e., dry unit weight and moisture content) corresponded to 85 percent of the maximum dry unit weight and the optimum moisture content based on the results of the modified Proctor compaction test conducted by GeoSyntec. For each test, shear failure was forced to occur along the middle of the second lift of the sand specimen.
- Wetting conditions: the soil specimen was wetted, prior to being sheared, by pouring tap water on top of the compacted alternate select fill material and allowing the water to drain from the gap between the upper and lower shear box.
- Test normal stresses: 100, 200, or 300 psf.
- Constant displacement rate: 0.04 in/min.
- Each test was sheared until a constant, residual shear load was recorded.

APPENDIX C

TEST RESULTS GEOCOMPOSITE-GEOMEMBRANE INTERFACE DIRECT SHEAR TESTS

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL
INTERFACE DIRECT SHEAR TESTING



NOTE: The shear box size was 12 in. by 12 in. (300 mm by 300 mm), and the contact area remained constant throughout the entire test.

DATE TESTED: 6 JULY 1995

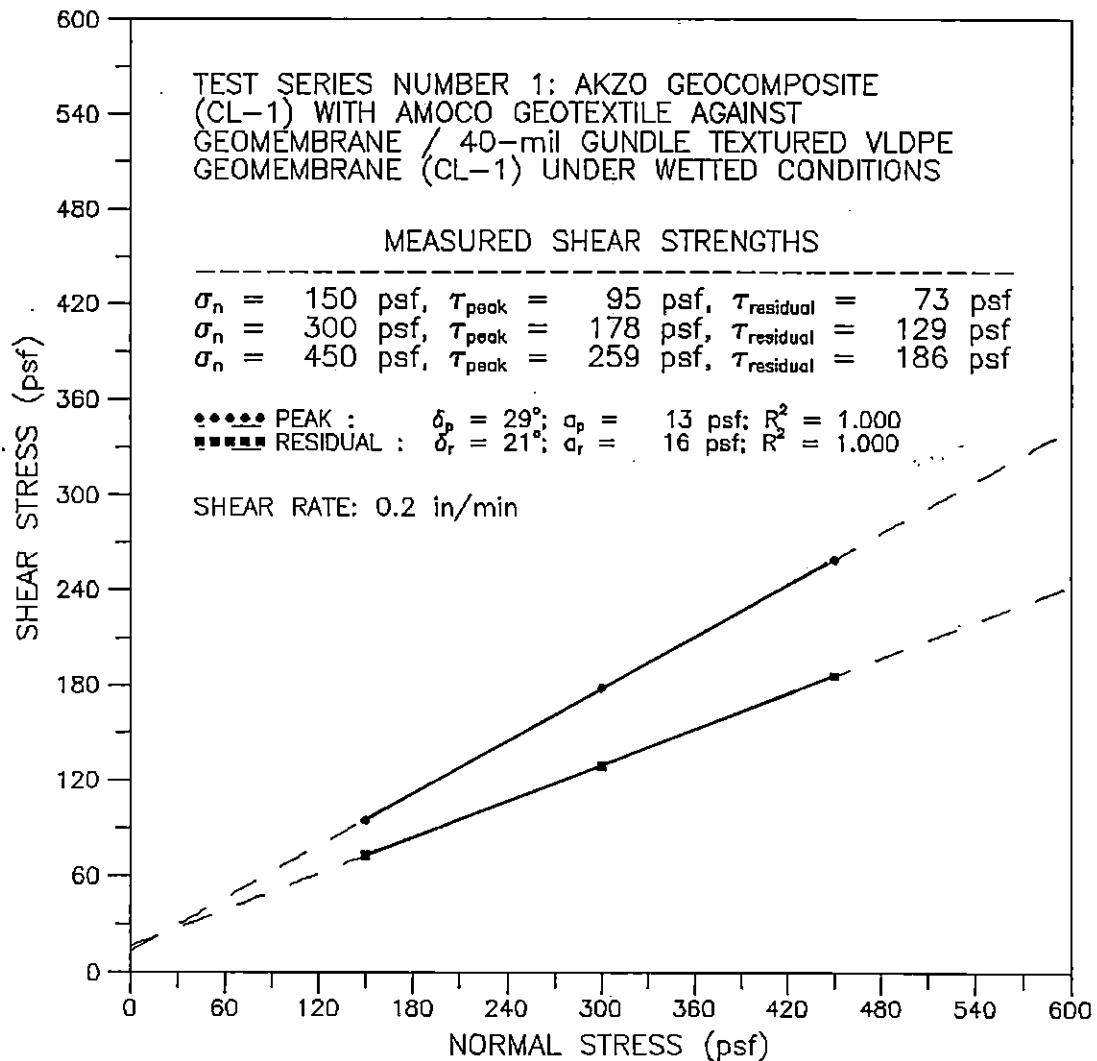


GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.	C-1
PROJECT NO.	GQ3700-03
DOCUMENT NO.	SGI96084
FILE NO.	

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The reported value of adhesion may not be the true adhesion of the interface, and caution should be exercised in using this adhesion value for applications involving normal stresses outside the range of stresses covered by the test.

DATE TESTED: 6 JULY 1995

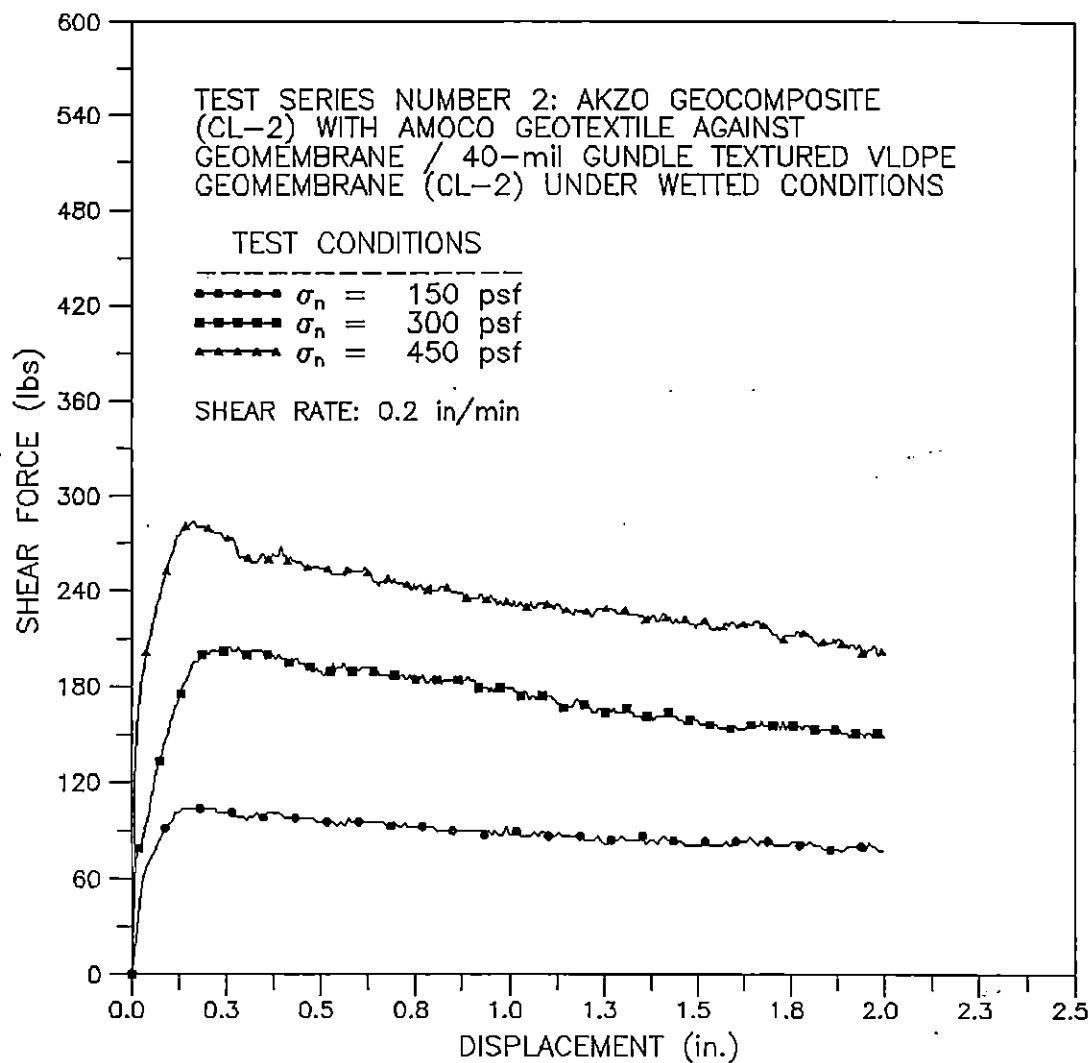


GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.	C-2
PROJECT NO.	GQ3700-03
DOCUMENT NO.	SGI96084
FILE NO.	

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The shear box size was 12 in. by 12 in. (300 mm by 300 mm), and the contact area remained constant throughout the entire test.

DATE TESTED: 14 JULY 1995

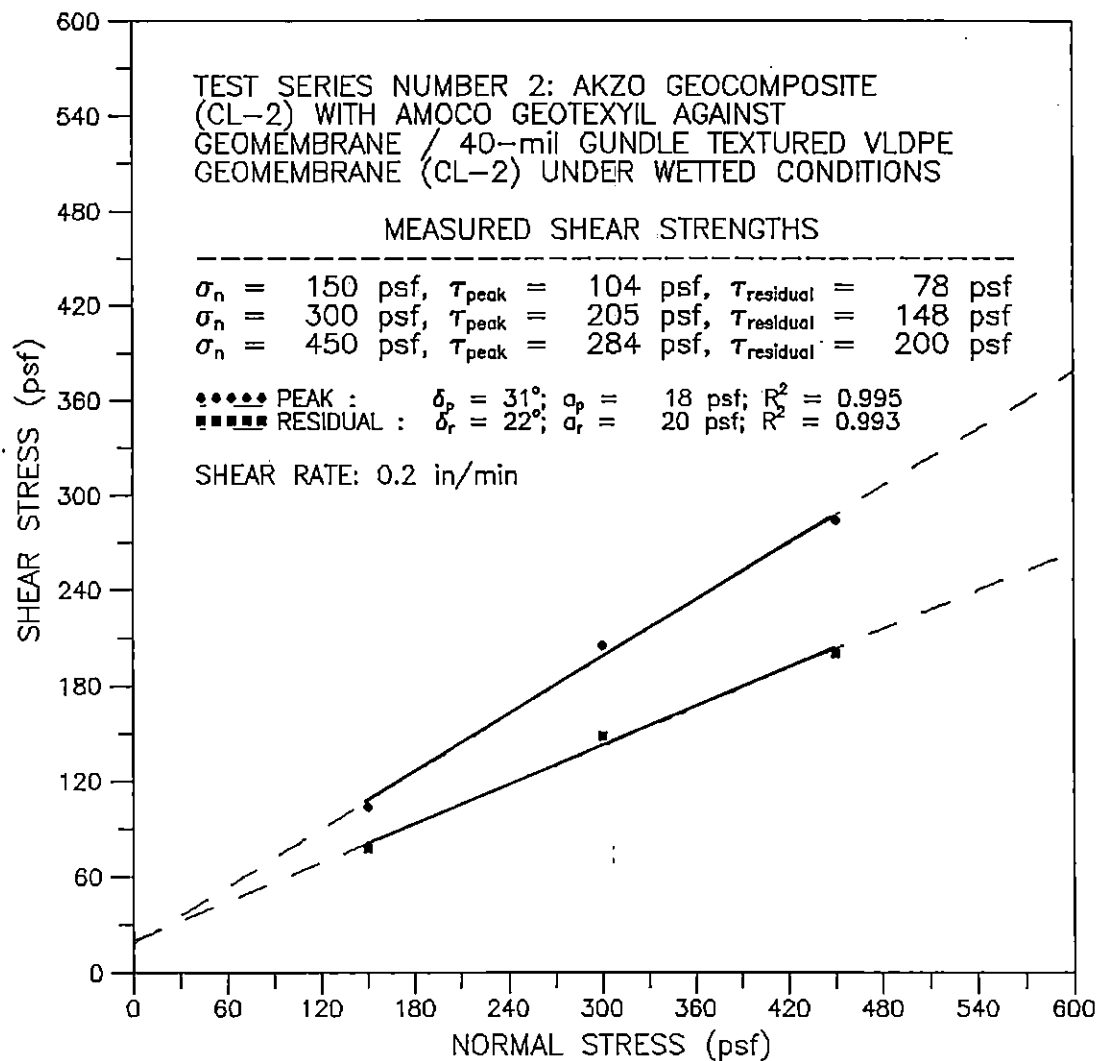


GEO SYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.	C-3
PROJECT NO.	GQ3700-03
DOCUMENT NO.	SGI96084
FILE NO.	

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The reported value of adhesion may not be the true adhesion of the interface, and caution should be exercised in using this adhesion value for applications involving normal stresses outside the range of stresses covered by the test.

DATE TESTED: 14 JULY 1995

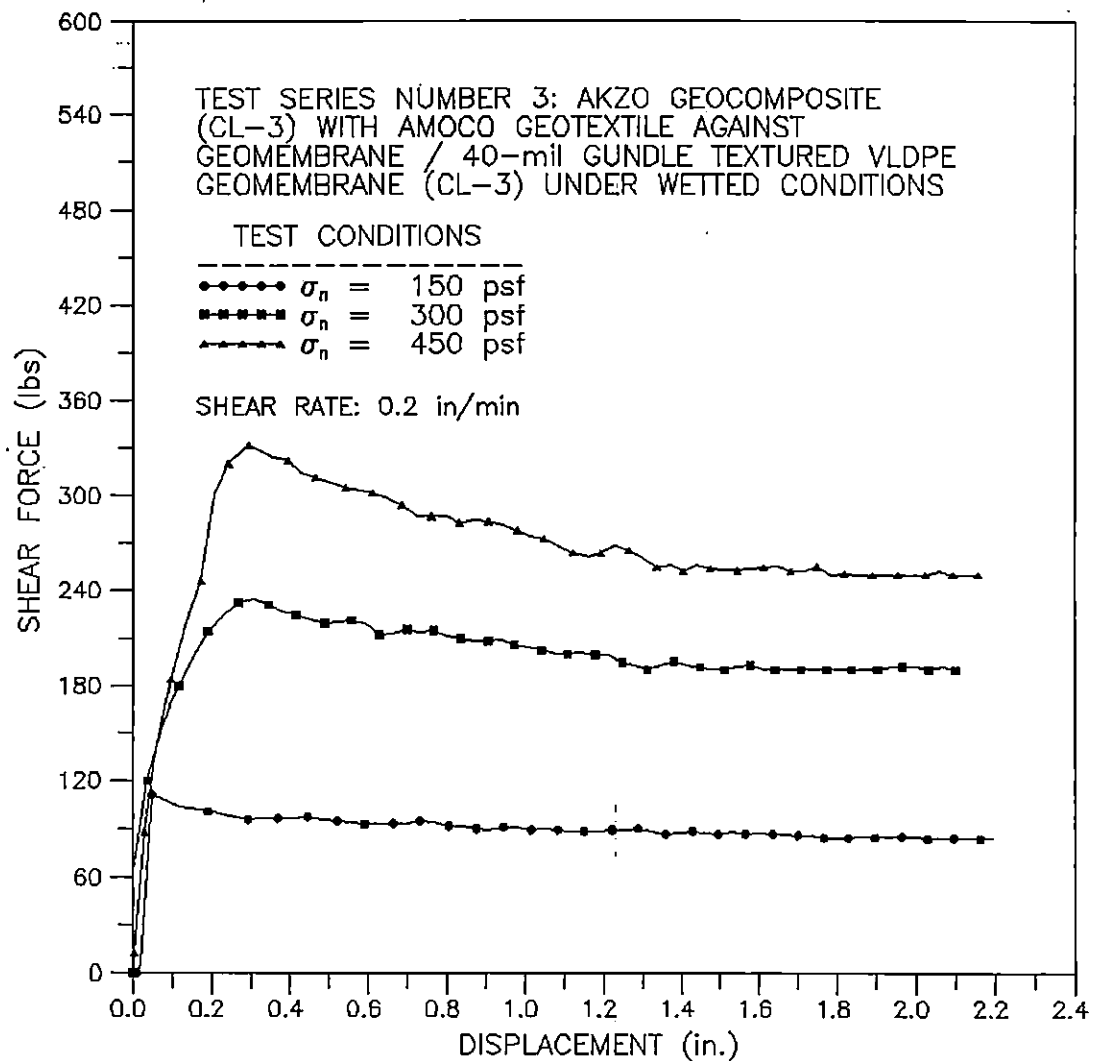


GEO SYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.	C-4
PROJECT NO.	GQ3700-03
DOCUMENT NO.	SGI96084
FILE NO.	

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The shear box size was 12 in. by 12 in. (300 mm by 300 mm), and the contact area remained constant throughout the entire test.

DATE TESTED: 17 JULY 1995

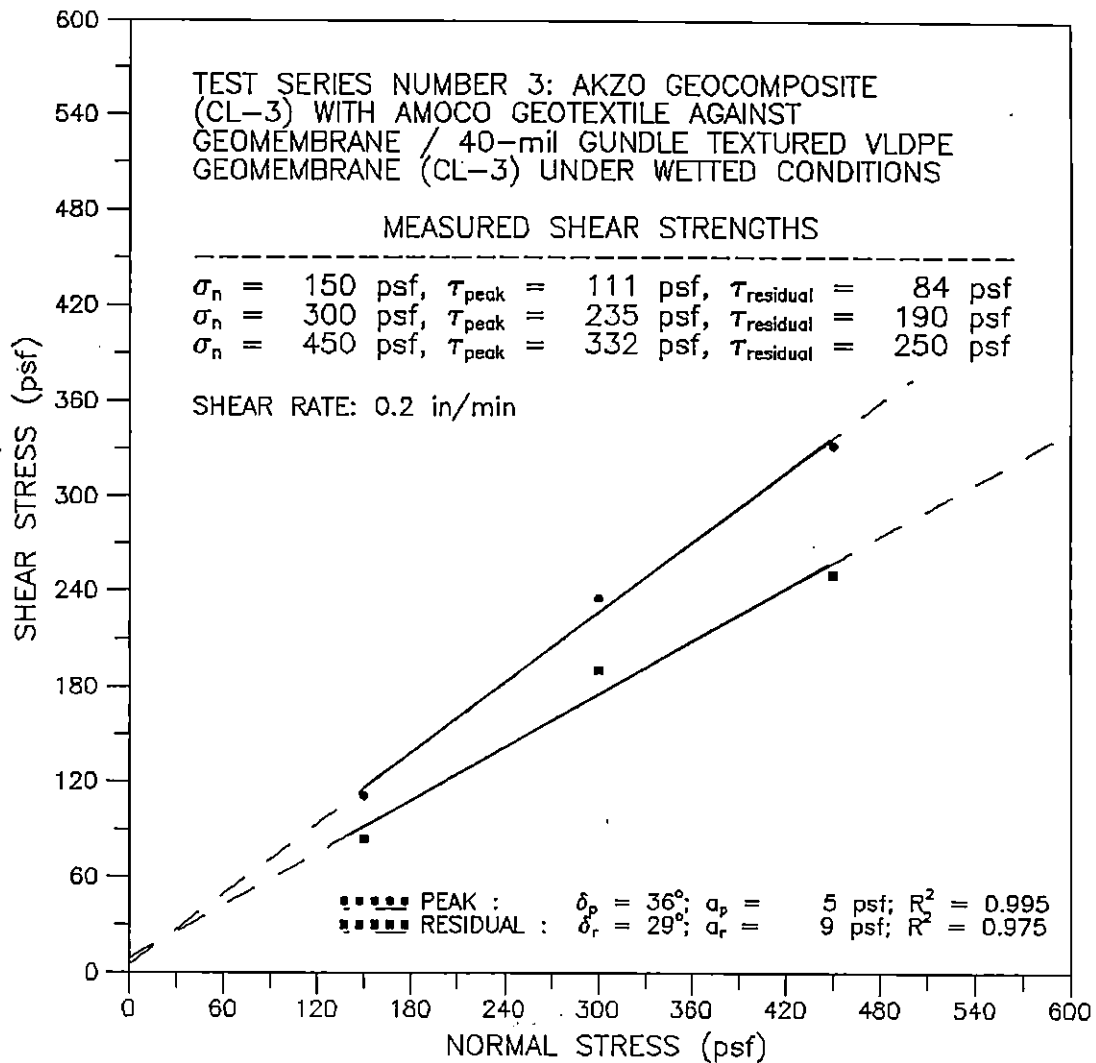


GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.	C-5
PROJECT NO.	GQ3700-03
DOCUMENT NO.	SGI96084
FILE NO.	

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL
INTERFACE DIRECT SHEAR TESTING



NOTE: The reported value of adhesion may not be the true adhesion of the interface, and caution should be exercised in using this adhesion value for applications involving normal stresses outside the range of stresses covered by the test.

DATE TESTED: 17 JULY 1995

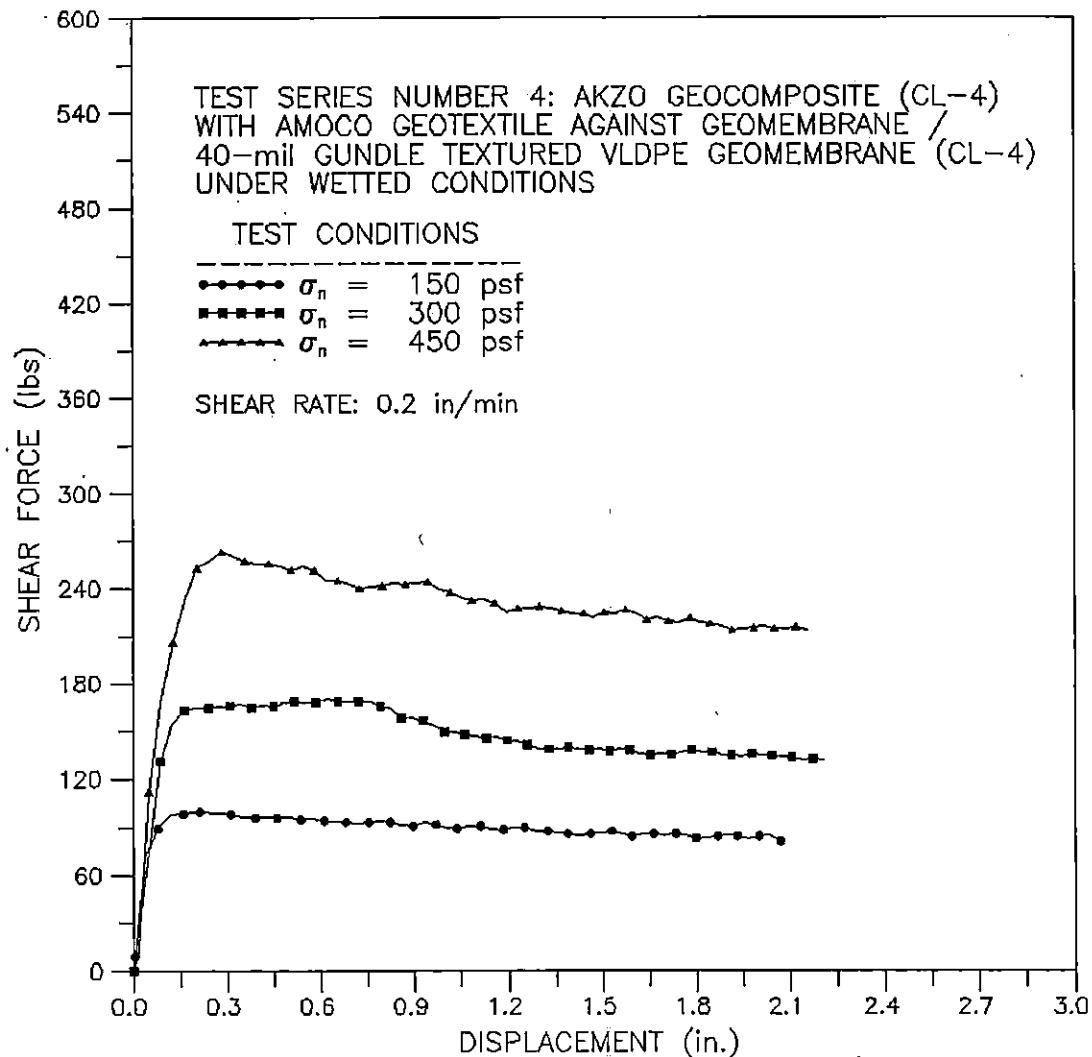


GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.	C-6
PROJECT NO.	GQ3700-03
DOCUMENT NO.	SGI96084
FILE NO.	

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The shear box size was 12 in. by 12 in.(300 mm by 300 mm), and the contact area remained constant throughout the entire test.

DATE TESTED: 17 JULY 1996

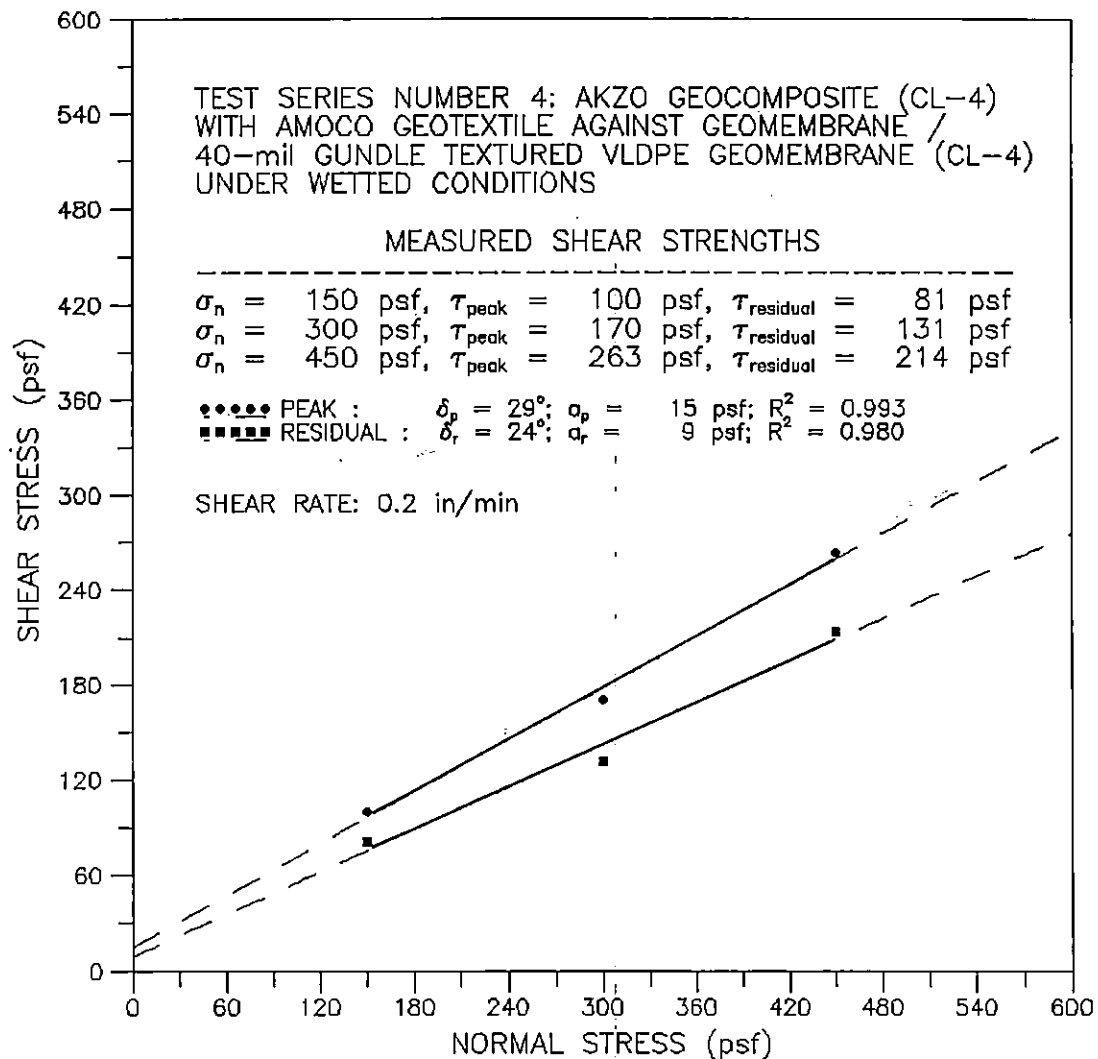


GEO SYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.	C-7
PROJECT NO.	GQ3700-03
DOCUMENT NO.	SGI96084
FILE NO.	

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The reported value of adhesion may not be the true adhesion of the interface, and caution should be exercised in using this adhesion value for applications involving normal stresses outside the range of stresses covered by the test.

DATE TESTED: 17 JULY 1996

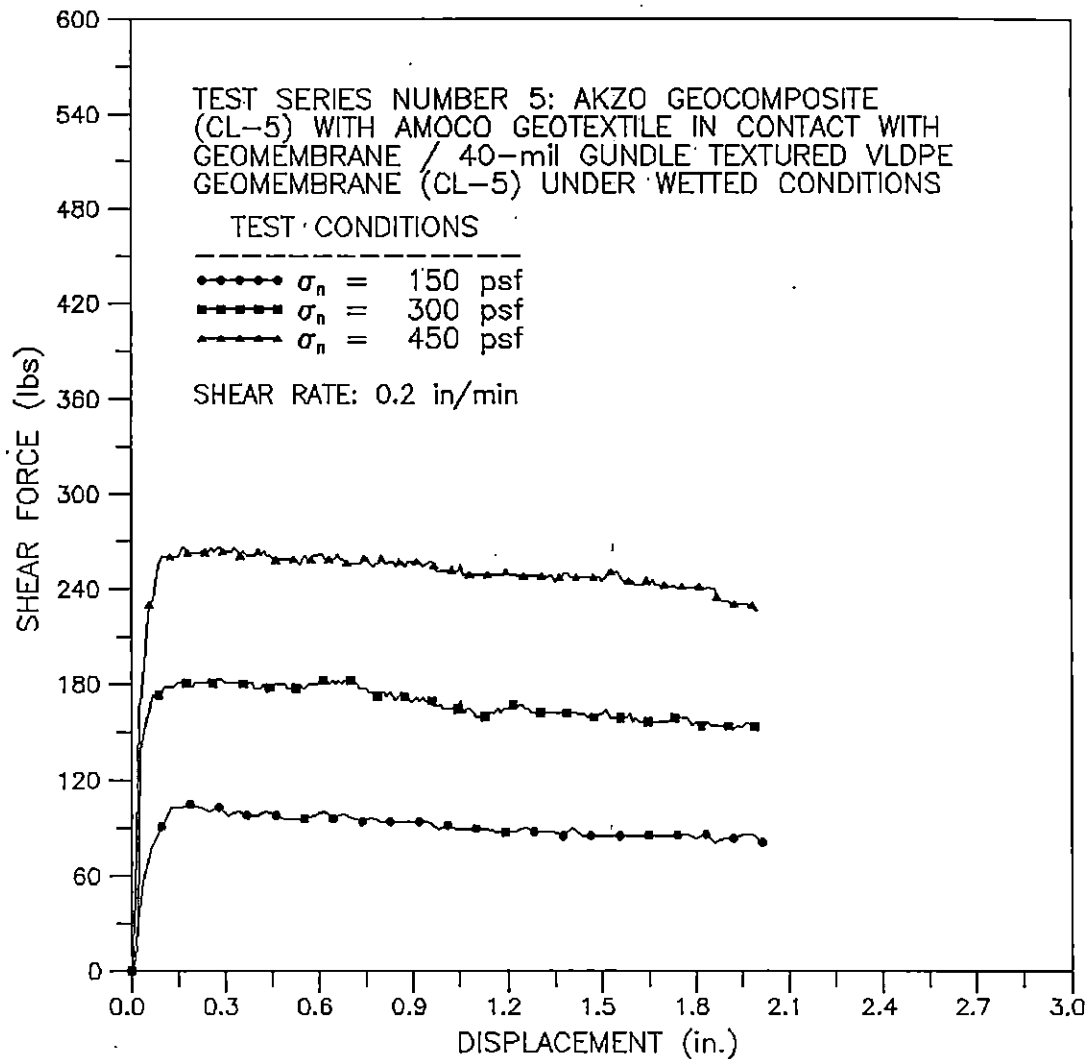


GEO SYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.	C-8
PROJECT NO.	GQ3700-03
DOCUMENT NO.	SGI96084
FILE NO.	

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The shear box size was 12 in. by 12 in. (300 mm by 300 mm), and the contact area remained constant throughout the entire test.

DATE TESTED: 19 JULY 1996

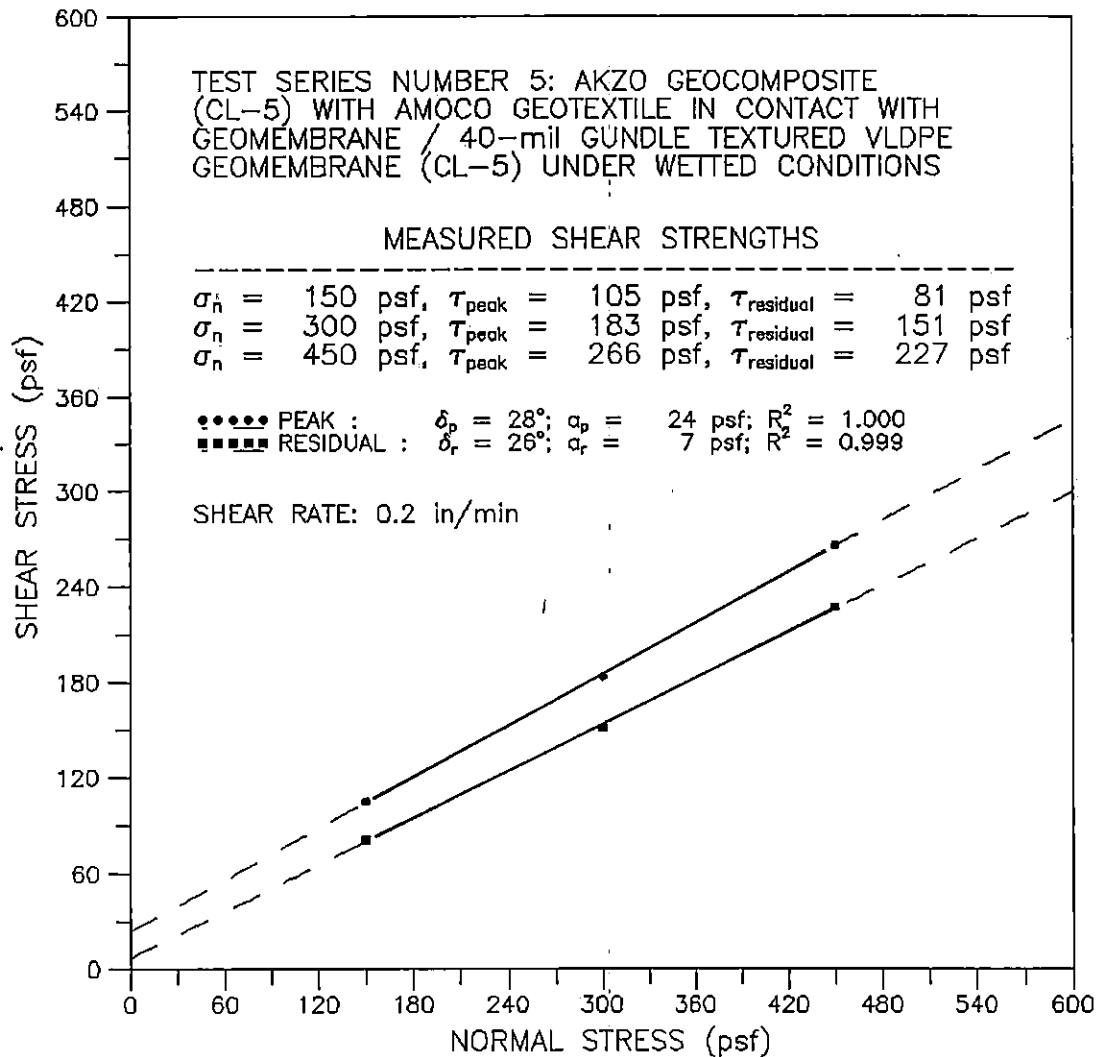


GEO SYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.	C-9
PROJECT NO.	GQ3700-03
DOCUMENT NO.	SGI96084
FILE NO.	

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The reported value of adhesion may not be the true adhesion of the interface, and caution should be exercised in using this adhesion value for applications involving normal stresses outside the range of stresses covered by the test.

DATE TESTED: 19 JULY 1996



GEO SYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

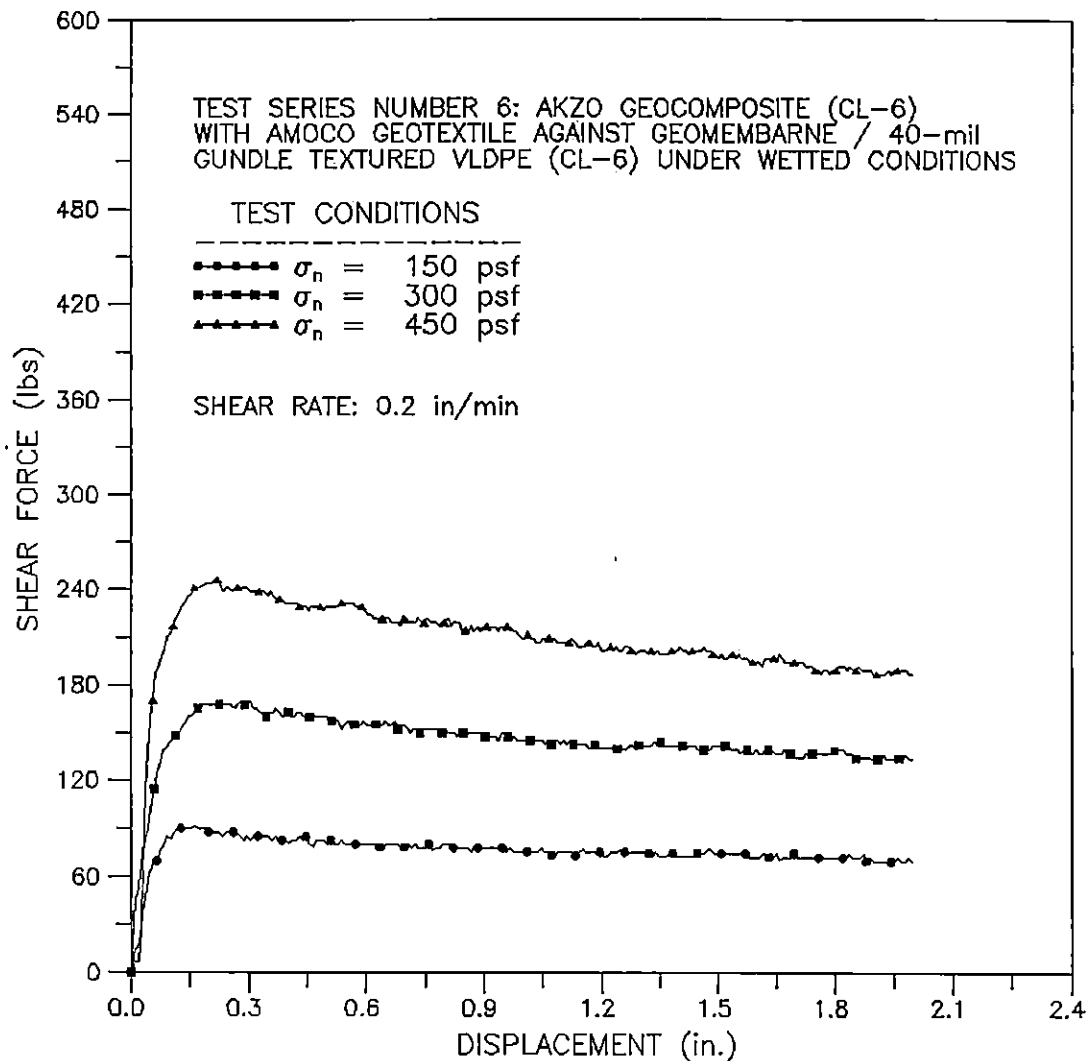
FIGURE NO. C-10

PROJECT NO. GQ3700-03

DOCUMENT NO. SG196084

FILE NO.

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The shear box size was 12 in. by 12 in. (300 mm by 300 mm), and the contact area remained constant throughout the entire test.

DATE TESTED: 20 JULY 1995

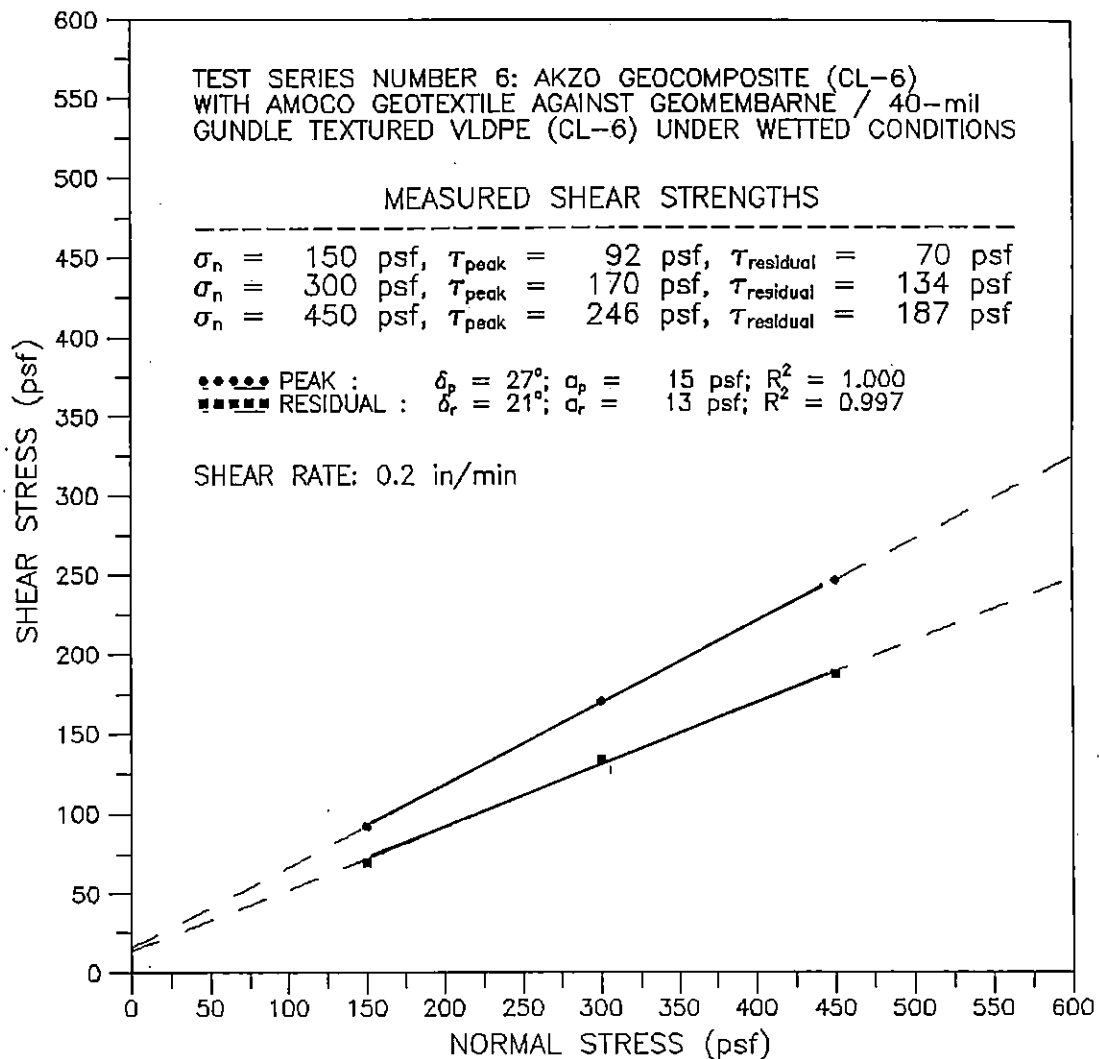


GeoSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.	C-11
PROJECT NO.	GQ3700-03
DOCUMENT NO.	SGI96084
FILE NO.	

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The reported value of adhesion may not be the true adhesion of the interface, and caution should be exercised in using this adhesion value for applications involving normal stresses outside the range of stresses covered by the test.

DATE TESTED: 20 JULY 1995



GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

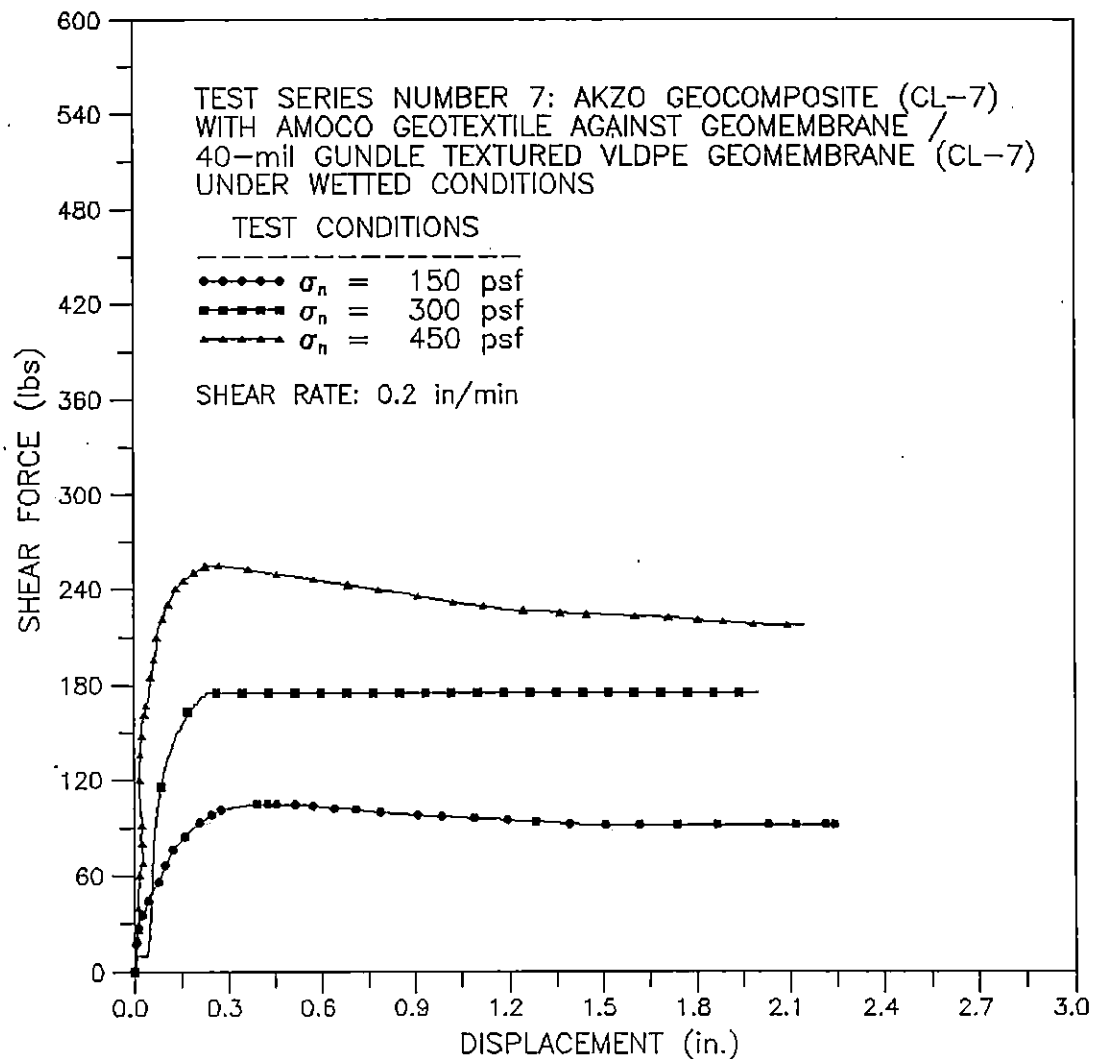
FIGURE NO. C-12

PROJECT NO. GQ3700-03

DOCUMENT NO. SG196084

FILE NO.

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The shear box size was 12 in. by 12 in. (300 mm by 300 mm), and the contact area remained constant throughout the entire test.

DATE TESTED: 21 JULY 1995



GEO SYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

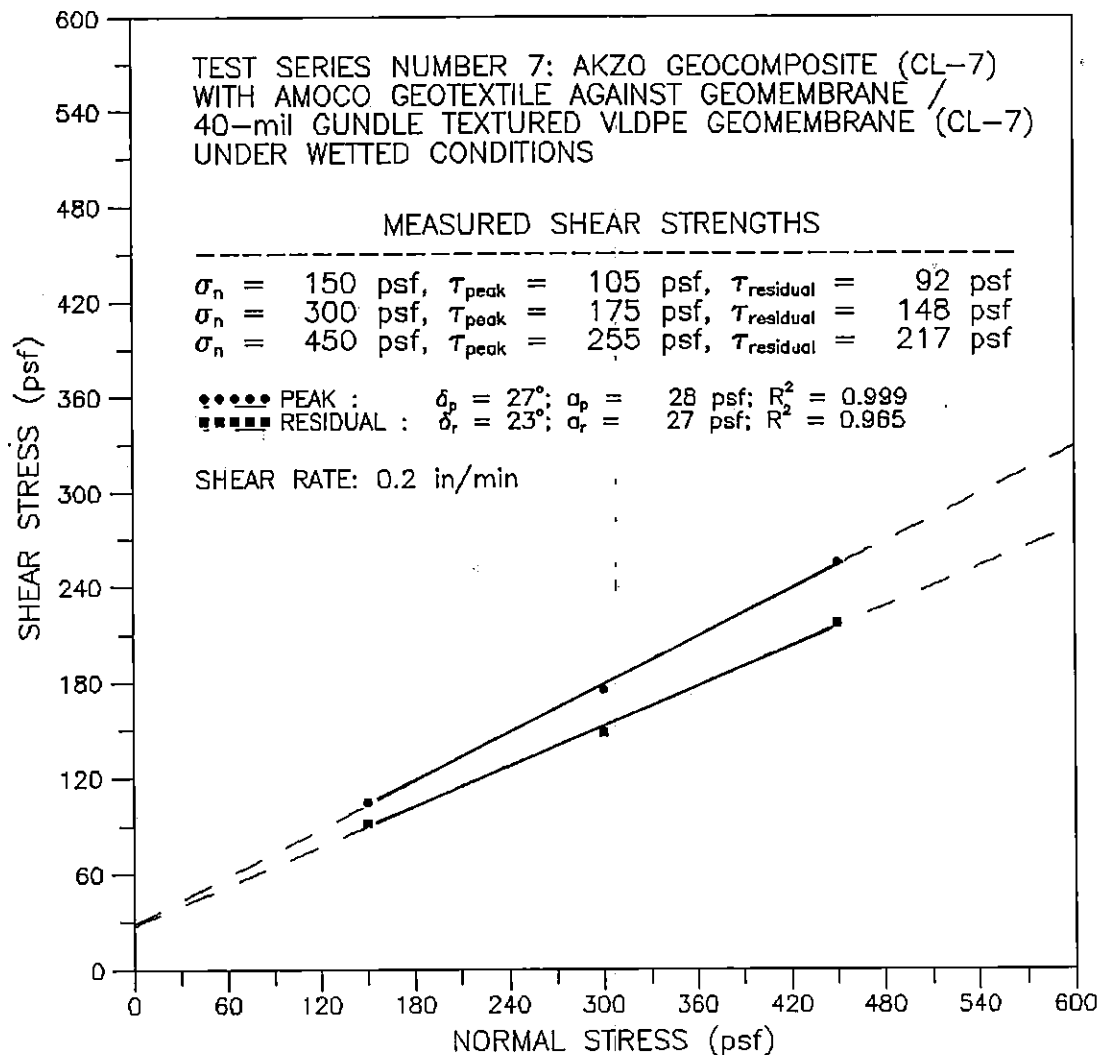
FIGURE NO. C-13

PROJECT NO. GQ3700-03

DOCUMENT NO. SG196084

FILE NO.

TOWN OF HUNTINGTON INTERFACE DIRECT SHEAR TESTING



NOTE: The reported value of adhesion may not be the true adhesion of the interface, and caution should be exercised in using this adhesion value for applications involving normal stresses outside the range of stresses covered by the test.

DATE TESTED: 21 JULY 1995

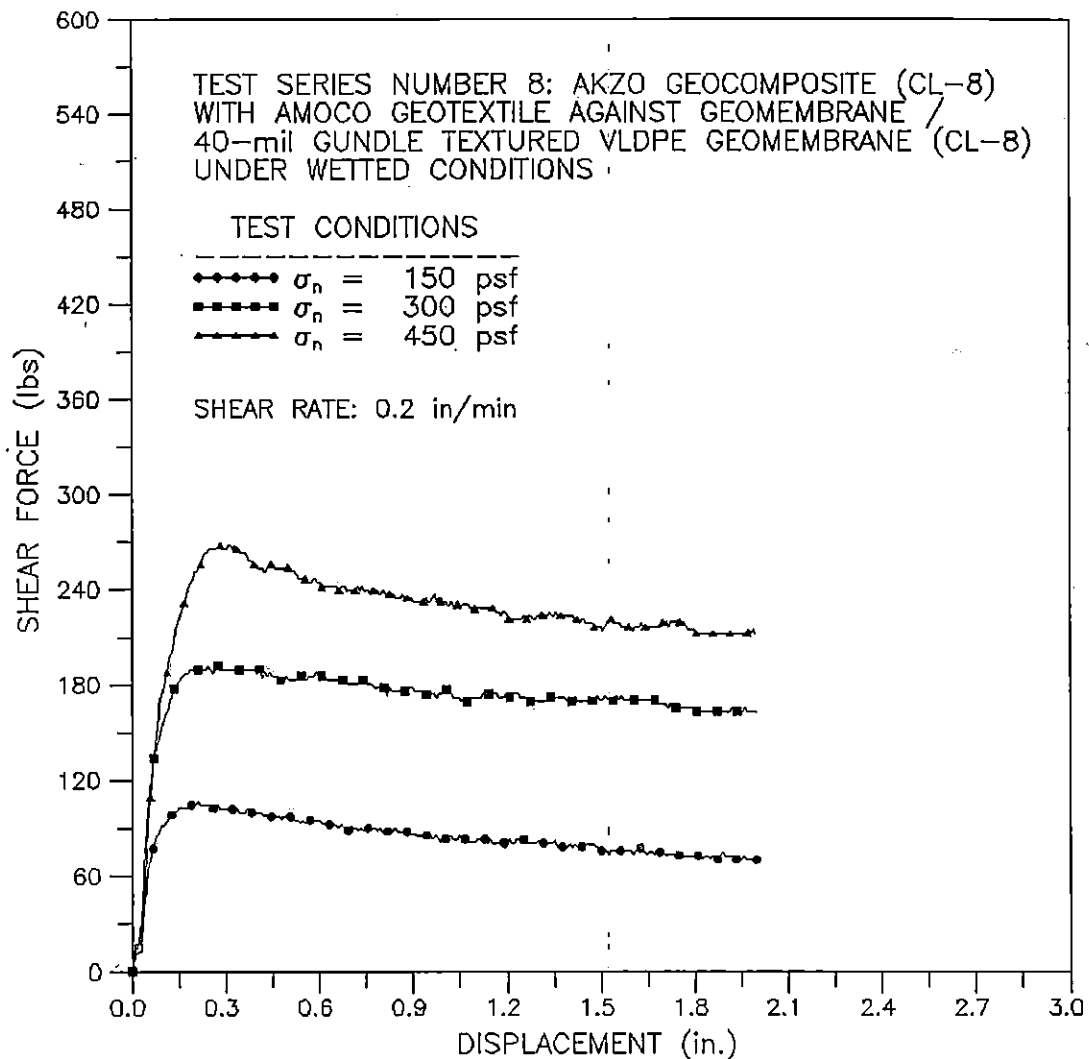


GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.	C-14
PROJECT NO.	GQ3700
DOCUMENT NO.	SGI96084
FILE NO.	

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The shear box size was 12 in. by 12 in. (300 mm by 300 mm), and the contact area remained constant throughout the entire test.

DATE TESTED: 26 JULY 1995



GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

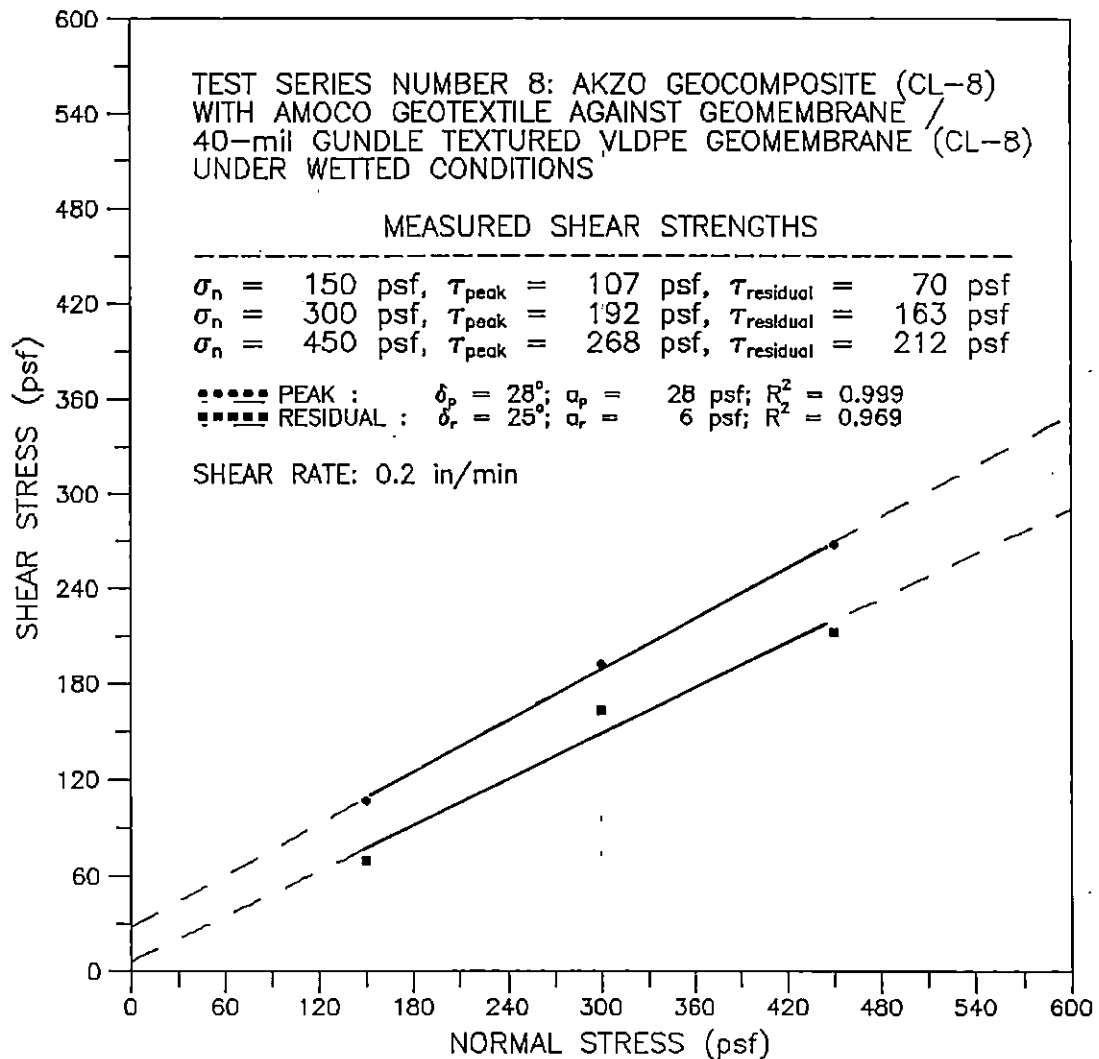
FIGURE NO. C-15

PROJECT NO. GQ3700-03

DOCUMENT NO. SGI96084

FILE NO.

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The reported value of adhesion may not be the true adhesion of the interface, and caution should be exercised in using this adhesion value for applications involving normal stresses outside the range of stresses covered by the test.

DATE TESTED: 26 JULY 1995



GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

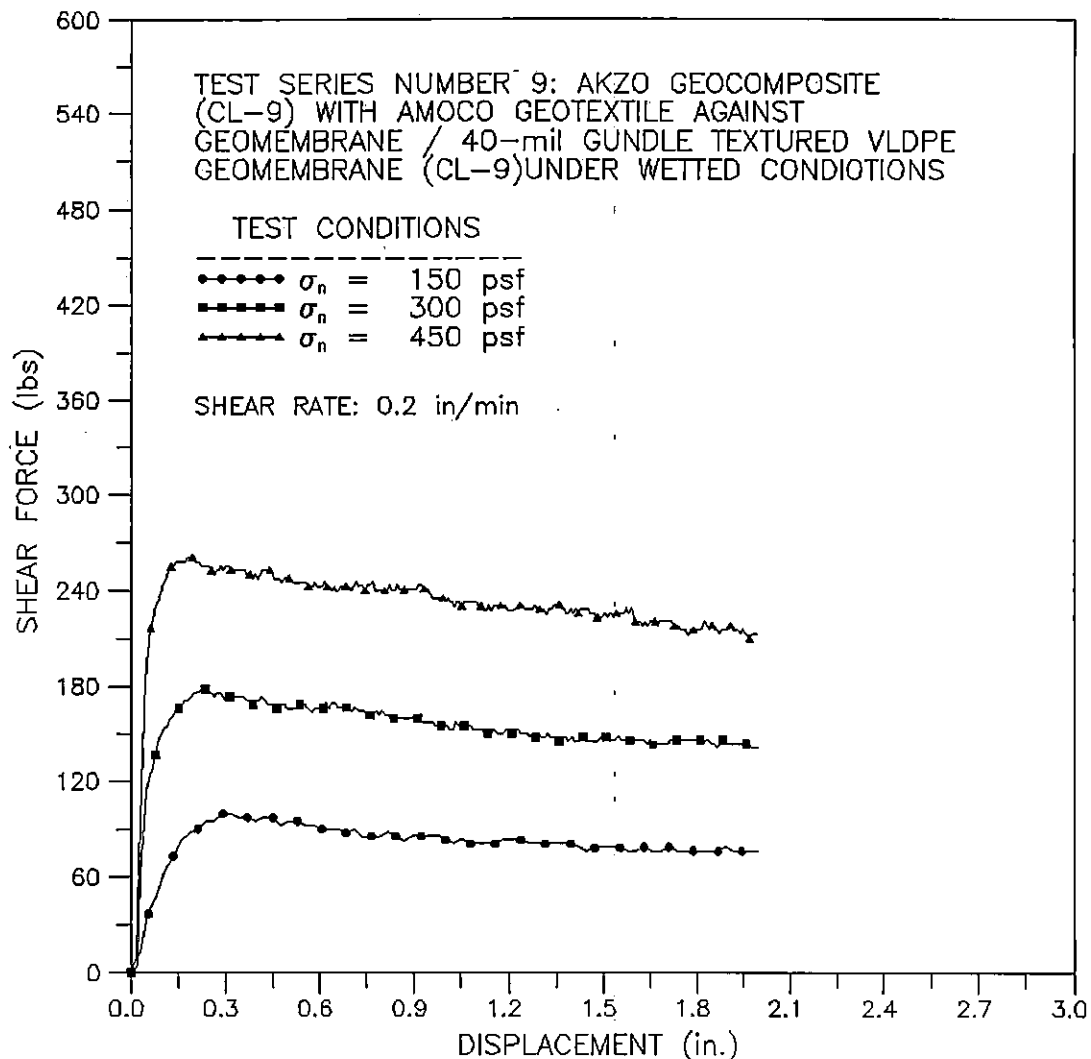
FIGURE NO. C-16

PROJECT NO. GQ3700-03

DOCUMENT NO. SGI96084

FILE NO.

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The shear box size was 12 in. by 12 in. (300 mm by 300 mm), and the contact area remained constant throughout the entire test.

DATE TESTED: 28 JULY 1995



GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

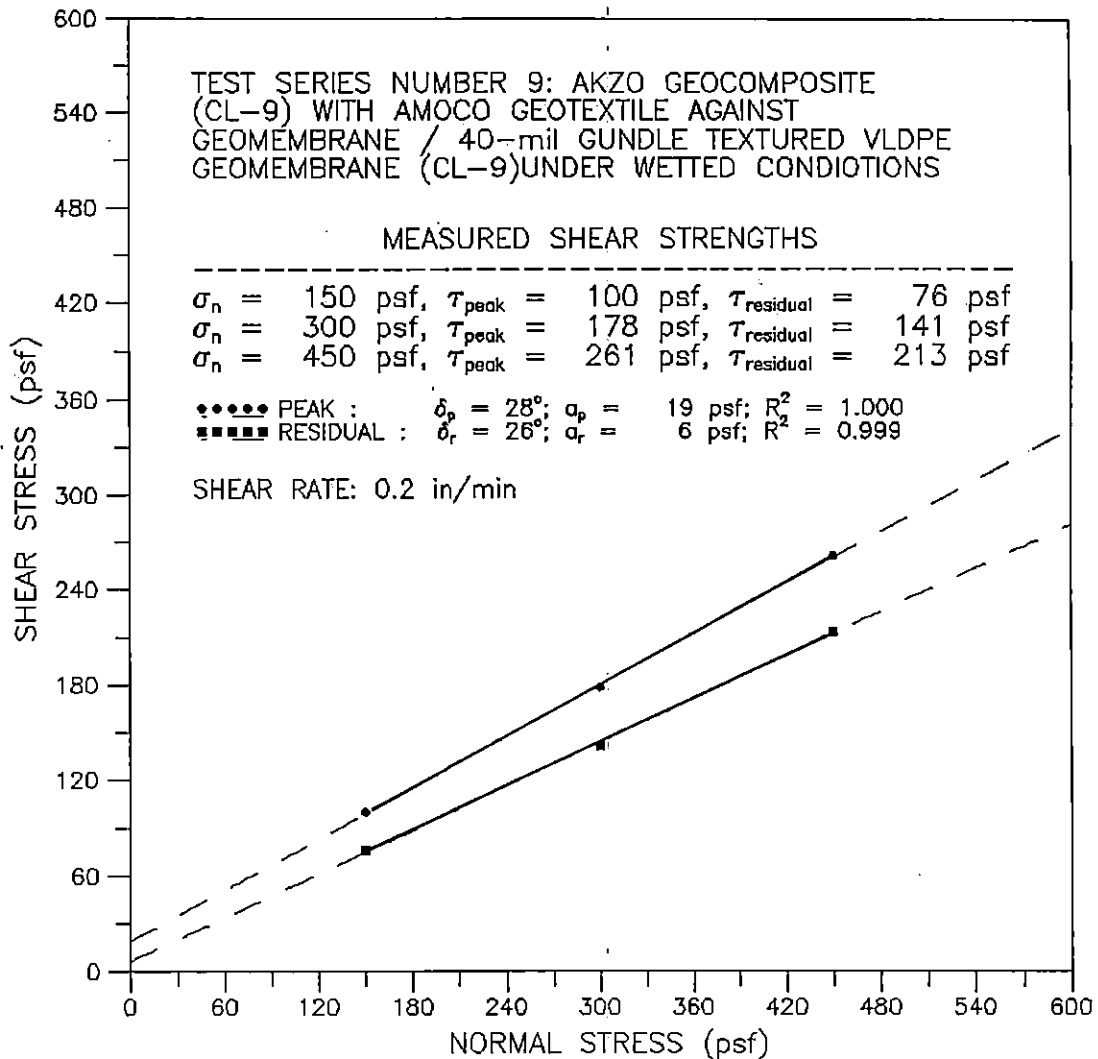
FIGURE NO. C-17

PROJECT NO. GQ3700-03

DOCUMENT NO. SG196084

FILE NO.

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL
INTERFACE DIRECT SHEAR TESTING



NOTE: The reported value of adhesion may not be the true adhesion of the interface, and caution should be exercised in using this adhesion value for applications involving normal stresses outside the range of stresses covered by the test.

DATE TESTED: 28 JULY 1995



GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

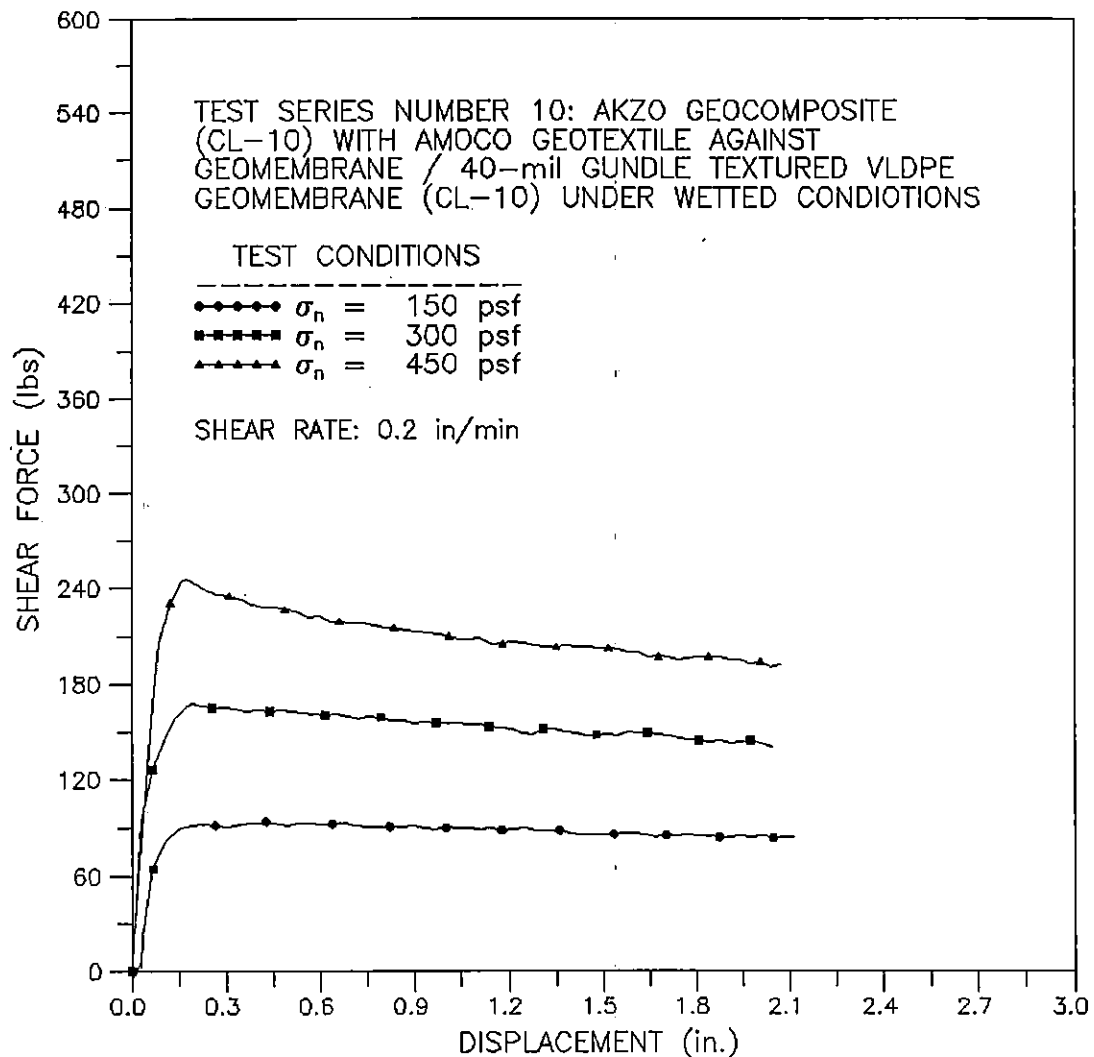
FIGURE NO. C-18

PROJECT NO. GQ3700-03

DOCUMENT NO. SGI96084

FILE NO.

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The shear box size was 12 in. by 12 in. (300 mm by 300 mm), and the contact area remained constant throughout the entire test.

DATE TESTED: 31 JULY 1995



GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

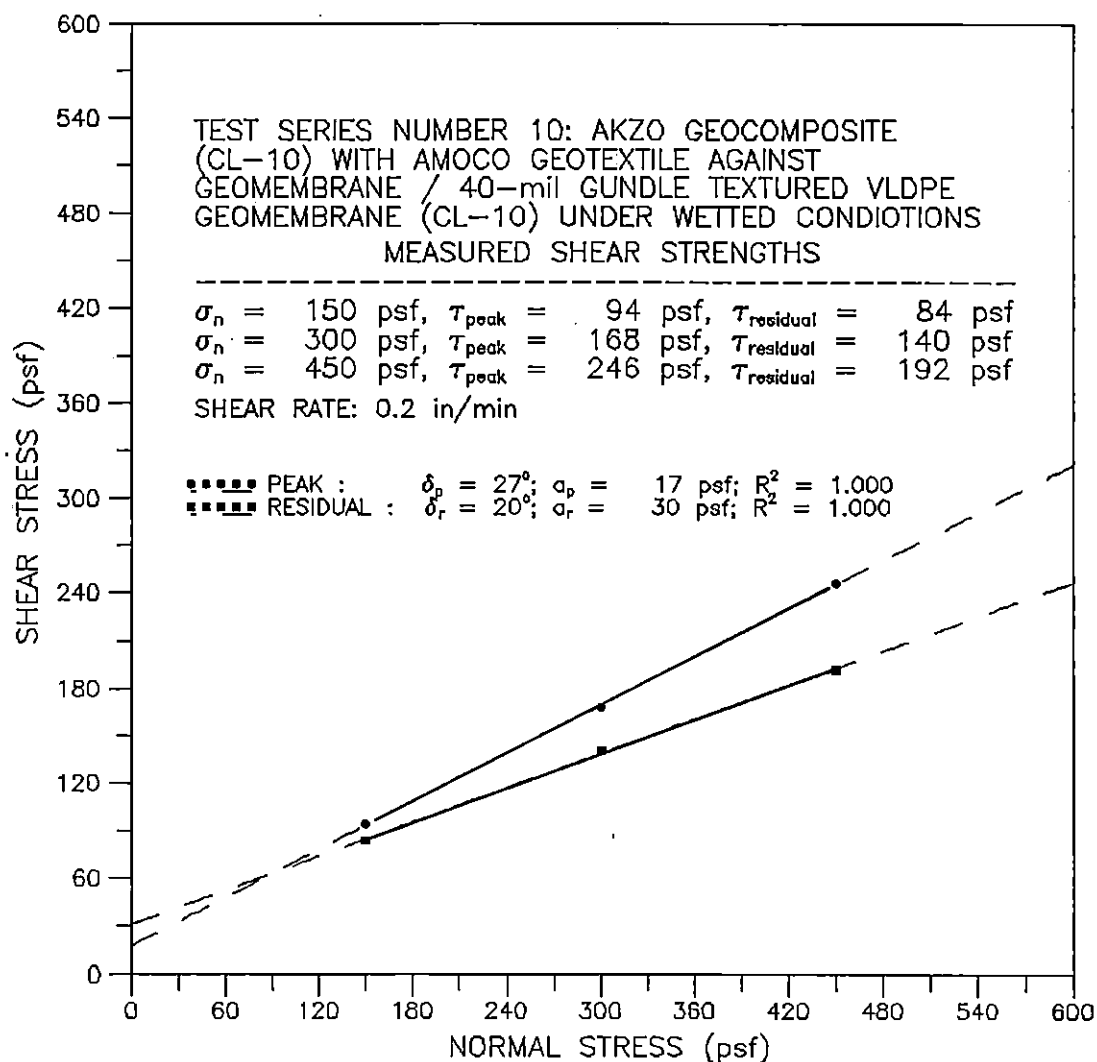
FIGURE NO. C-19

PROJECT NO. GQ3700-03

DOCUMENT NO. SGI96084

FILE NO.

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The reported value of adhesion may not be the true adhesion of the interface, and caution should be exercised in using this adhesion value for applications involving normal stresses outside the range of stresses covered by the test.

DATE TESTED: 31 JULY 1995

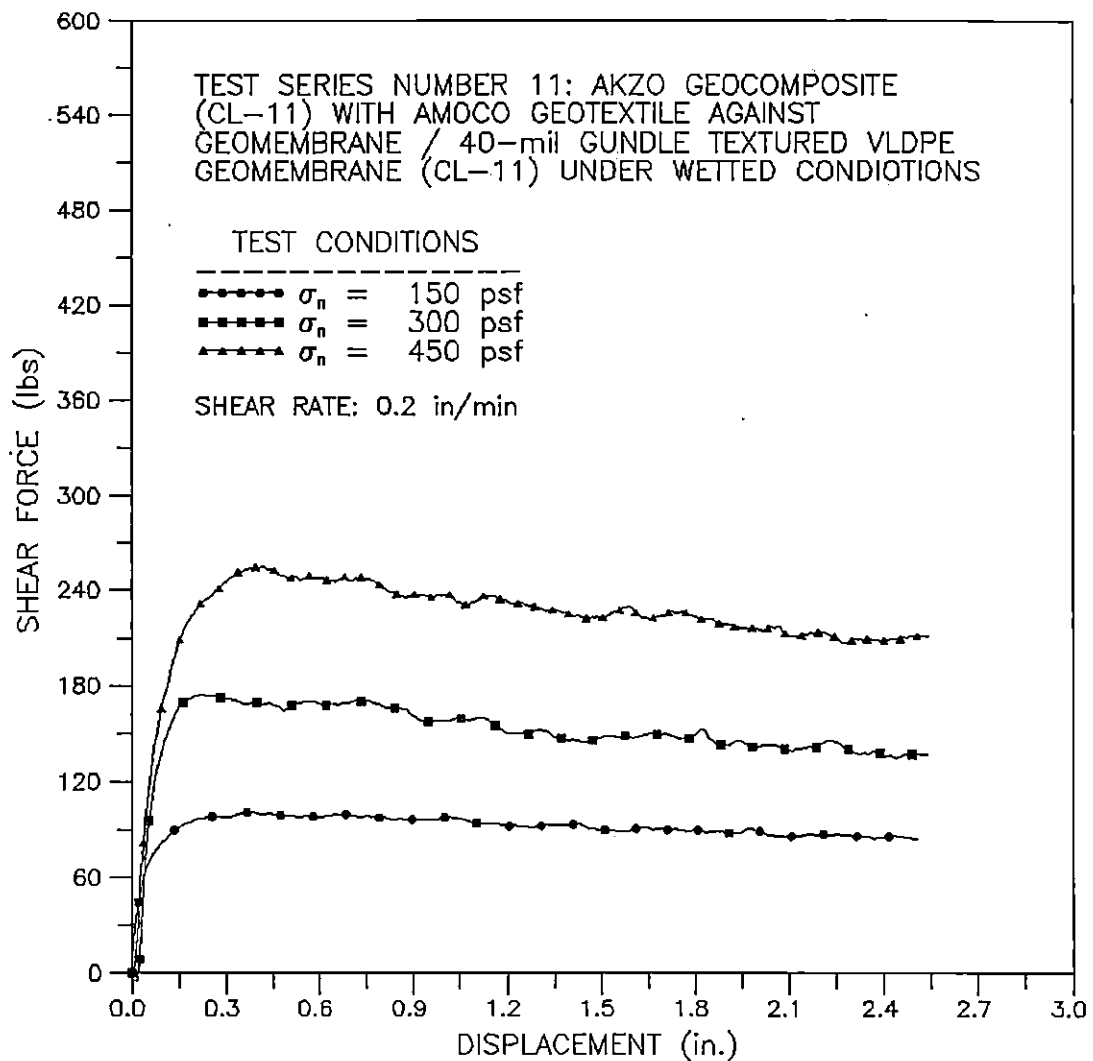


GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.	C-20
PROJECT NO.	GQ3700-03
DOCUMENT NO.	SGI96084
FILE NO.	

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The shear box size was 12 in. by 12 in. (300 mm by 300 mm), and the contact area remained constant throughout the entire test.

DATE TESTED: 4 AUGUST 1995



GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

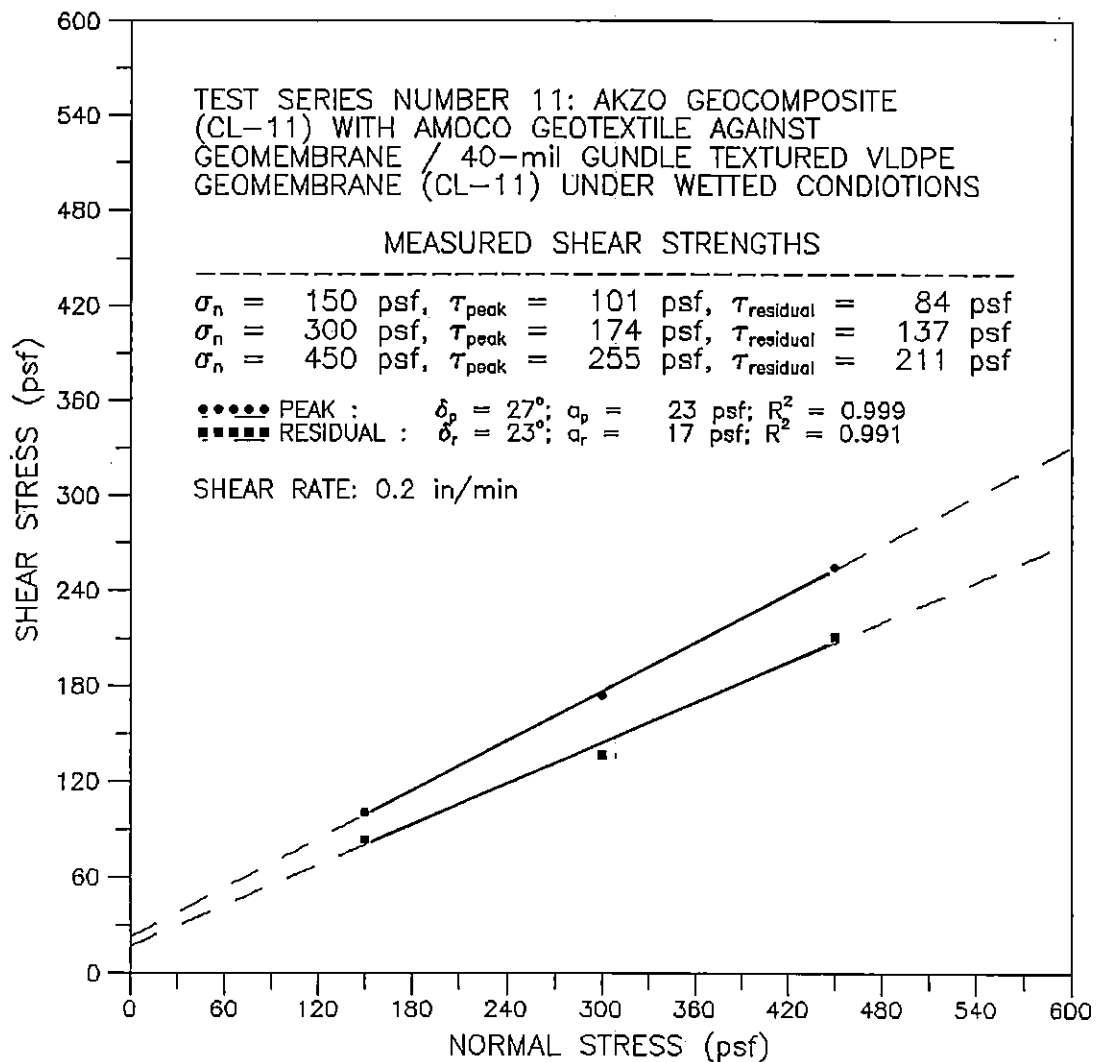
FIGURE NO. C-21

PROJECT NO. GQ3700-03

DOCUMENT NO. SGI96084

FILE NO.

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The reported value of adhesion may not be the true adhesion of the interface, and caution should be exercised in using this adhesion value for applications involving normal stresses outside the range of stresses covered by the test.

DATE TESTED: 4 AUGUST 1995

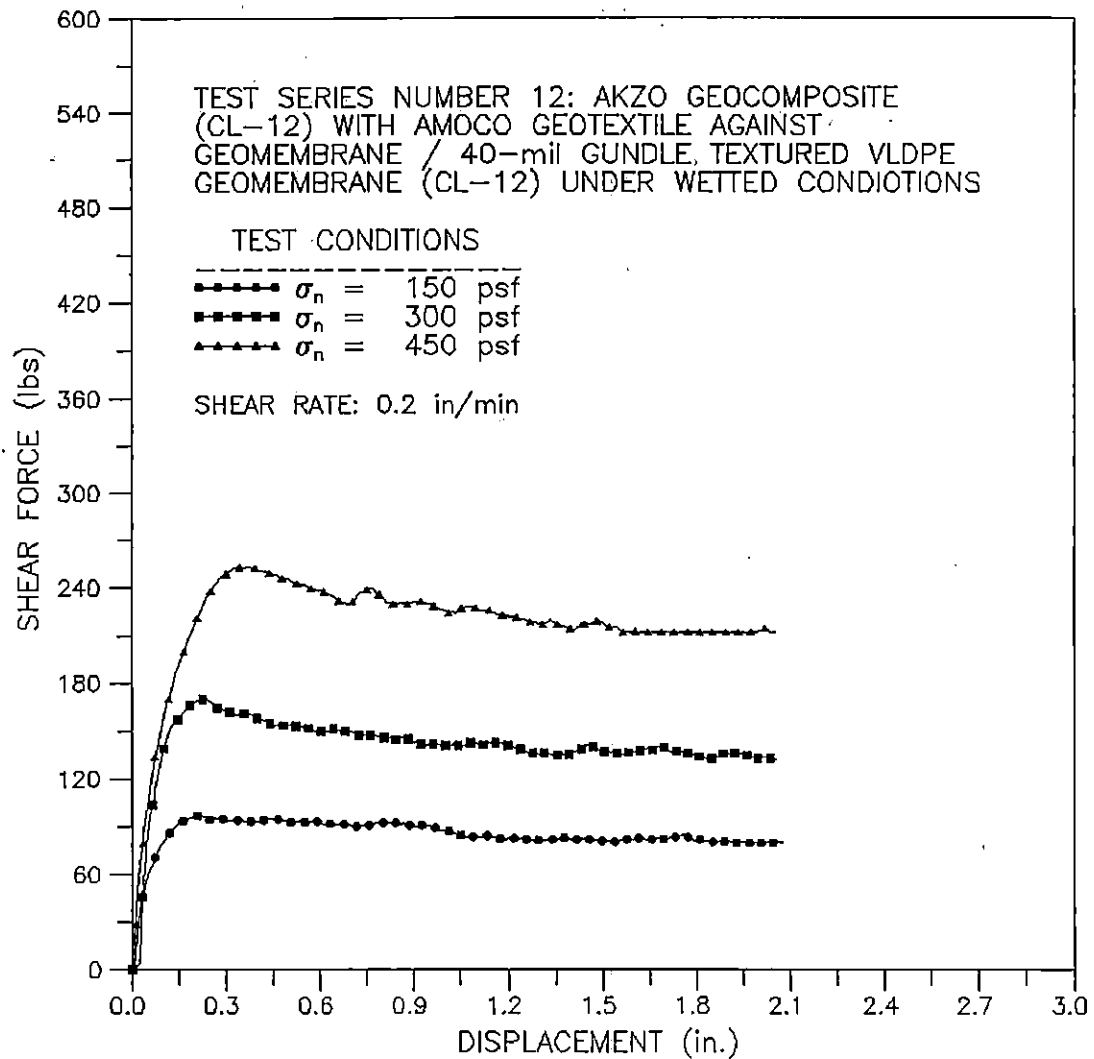


GEOSYNTEC CONSULTANTS'

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.	C-22
PROJECT NO.	GQ3700-03
DOCUMENT NO.	SGI96084
FILE NO.	

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The shear box size was 12 in. by 12 in. (300 mm by 300 mm), and the contact area remained constant throughout the entire test.

DATE TESTED: 7 AUGUST 1995

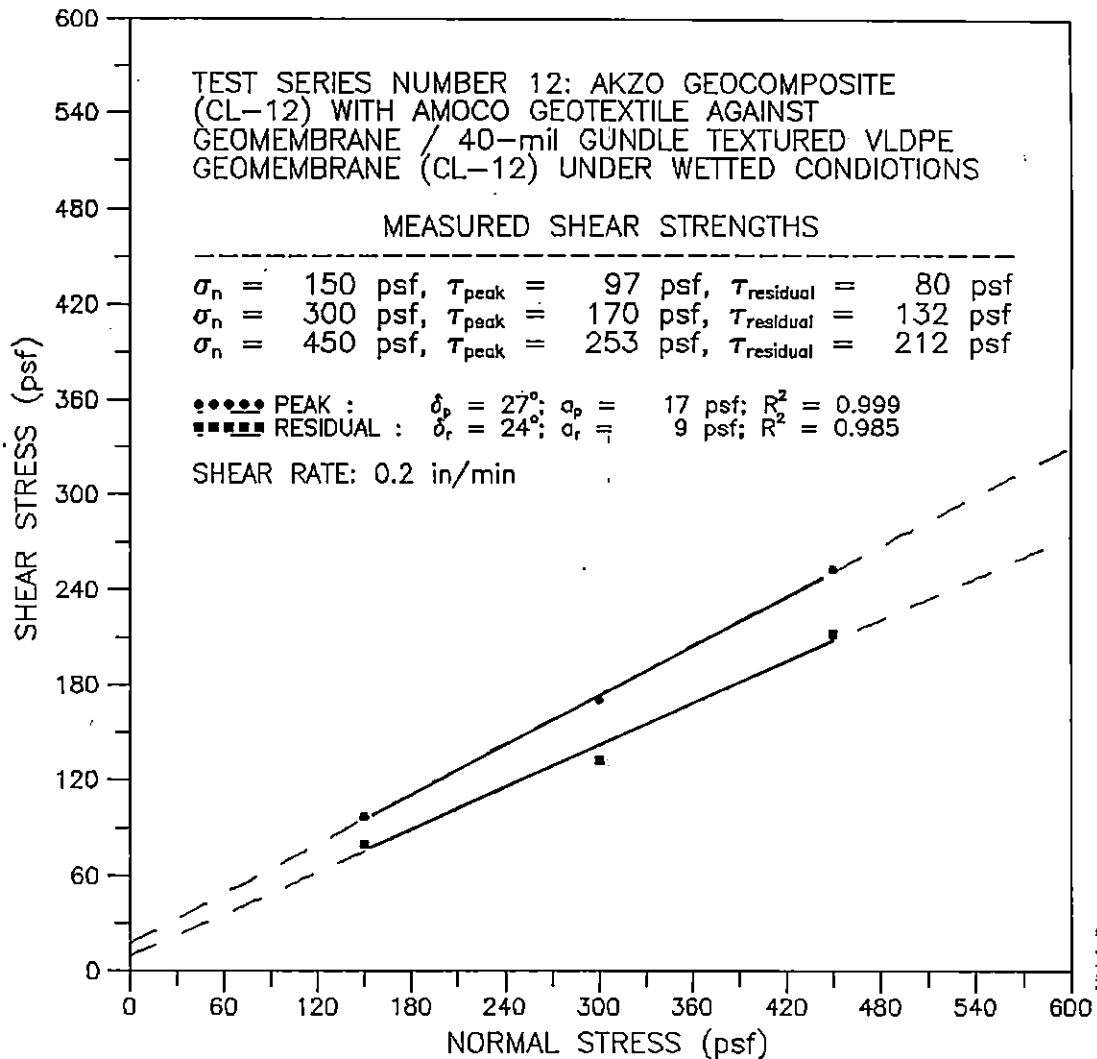


GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.	C-23
PROJECT NO.	GQ3700-03
DOCUMENT NO.	SGI96084
FILE NO.	

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The reported value of adhesion may not be the true adhesion of the interface, and caution should be exercised in using this adhesion value for applications involving normal stresses outside the range of stresses covered by the test.

DATE TESTED: 7 AUGUST 1995



GEO SYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

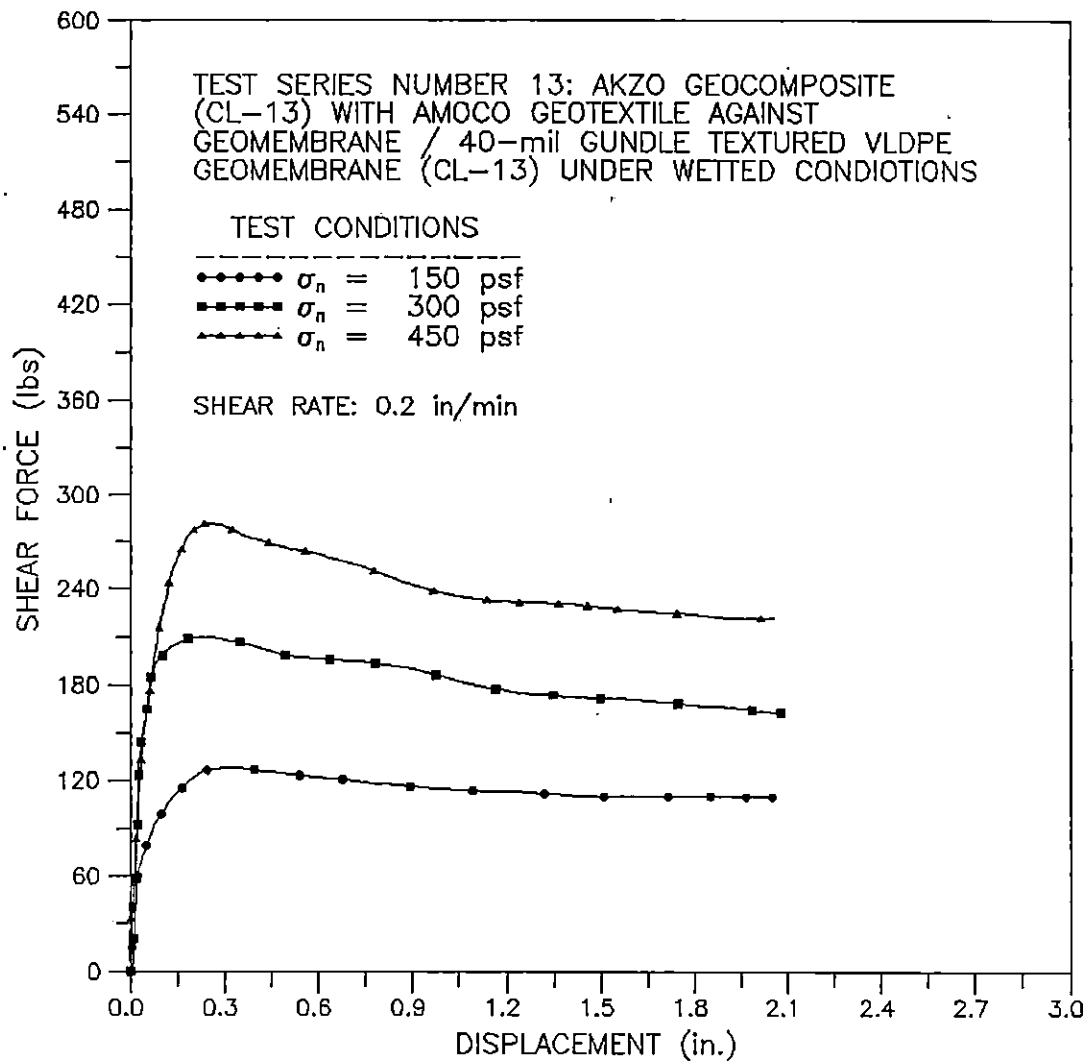
FIGURE NO. C-24

PROJECT NO. GQ3700-03

DOCUMENT NO. SG196084

FILE NO.

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The shear box size was 12 in. by 12 in. (300 mm by 300 mm), and the contact area remained constant throughout the entire test.

DATE TESTED: 23 AUGUST 1995



GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

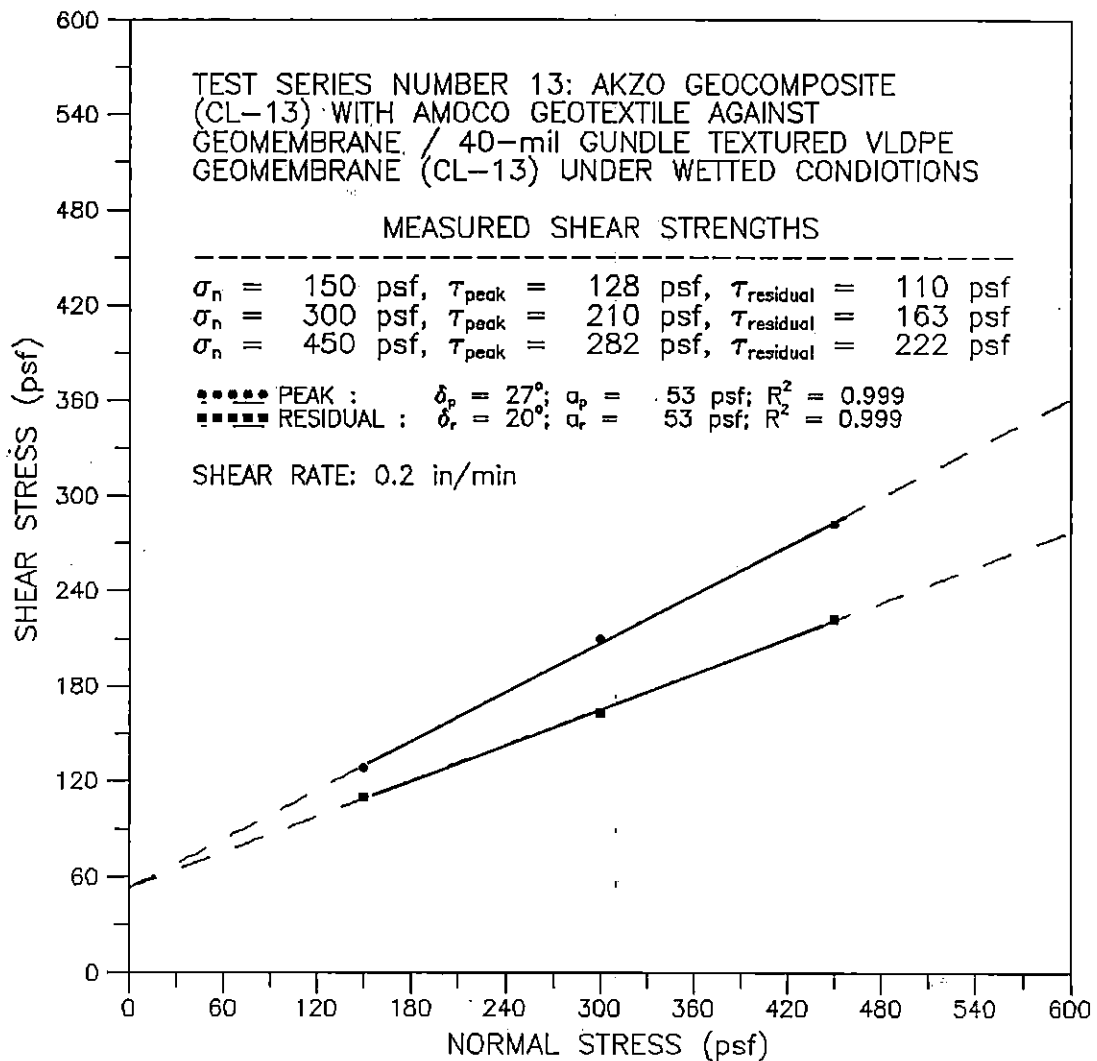
FIGURE NO. C-25

PROJECT NO. GQ3700-03

DOCUMENT NO. SGI96084

FILE NO.

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The reported value of adhesion may not be the true adhesion of the interface, and caution should be exercised in using this adhesion value for applications involving normal stresses outside the range of stresses covered by the test.

DATE TESTED: 23 AUGUST 1995

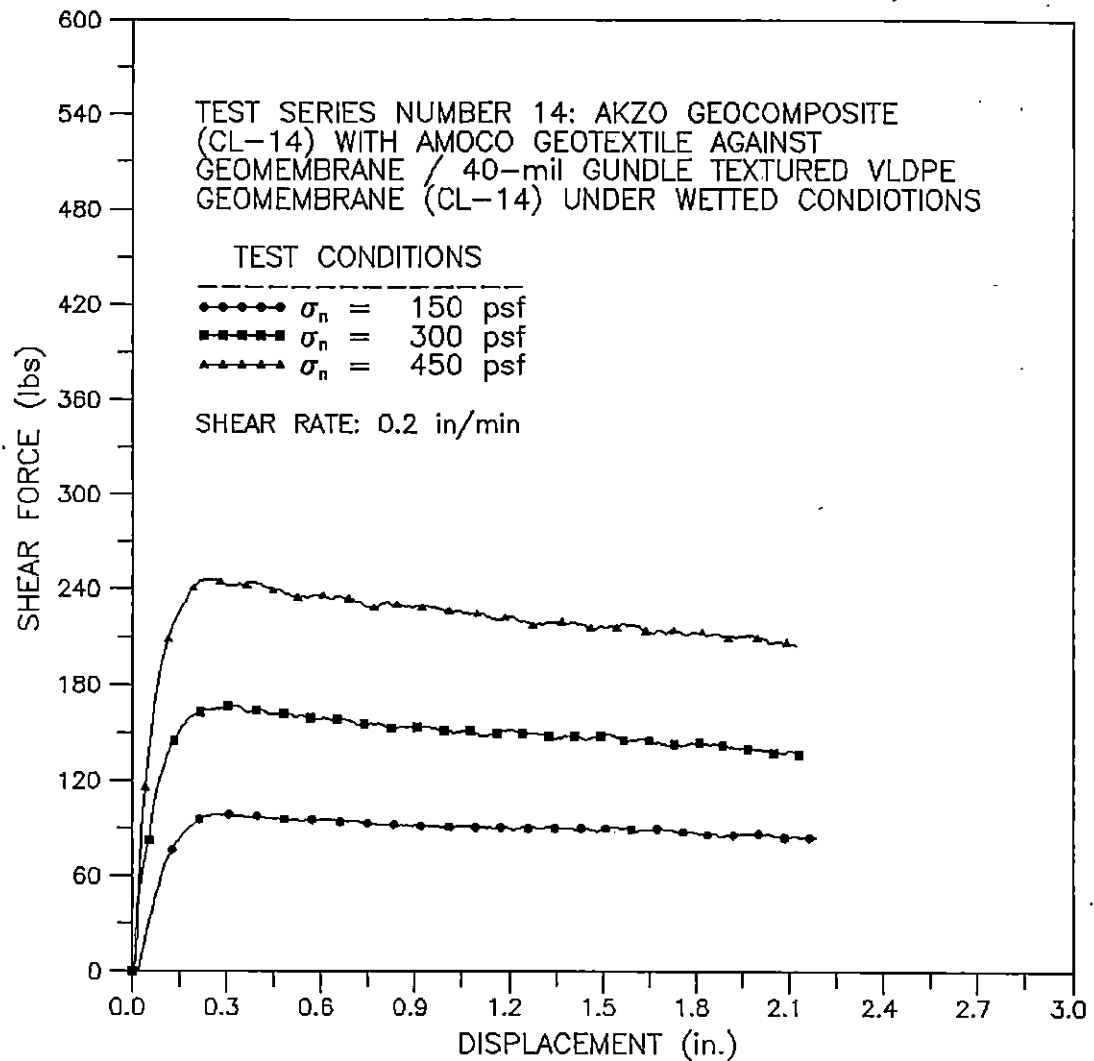


GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.	C-26
PROJECT NO.	GQ3700-03
DOCUMENT NO.	SGI96084
FILE NO.	

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The shear box size was 12 in. by 12 in. (300 mm by 300 mm), and the contact area remained constant throughout the entire test.

DATE TESTED: 31 AUGUST 1995

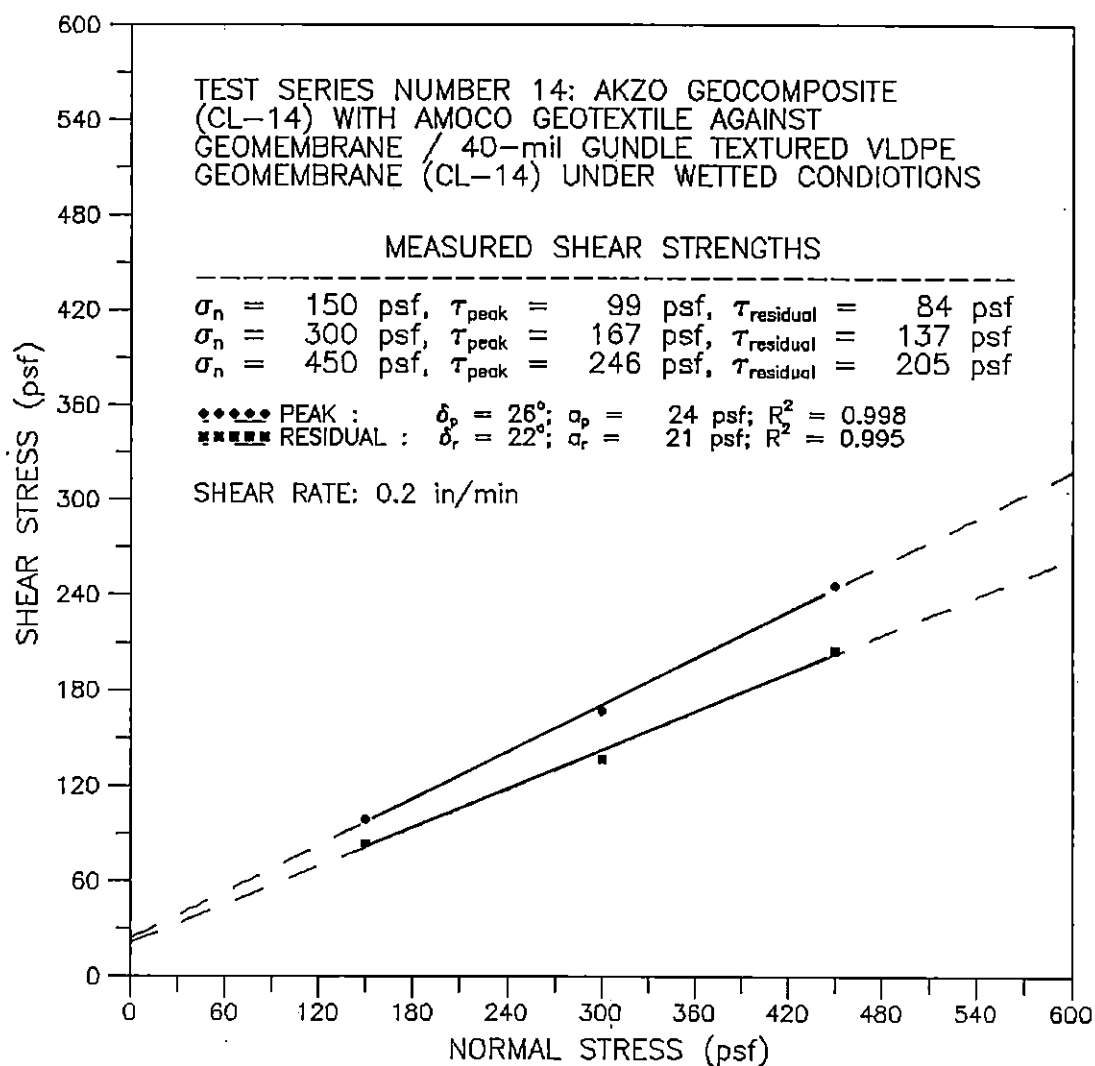


GEO SYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.	C-27
PROJECT NO.	GQ3700-03
DOCUMENT NO.	SGI96084
FILE NO.	

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The reported value of adhesion may not be the true adhesion of the interface, and caution should be exercised in using this adhesion value for applications involving normal stresses outside the range of stresses covered by the test.

DATE TESTED: 31 AUGUST 1995



GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

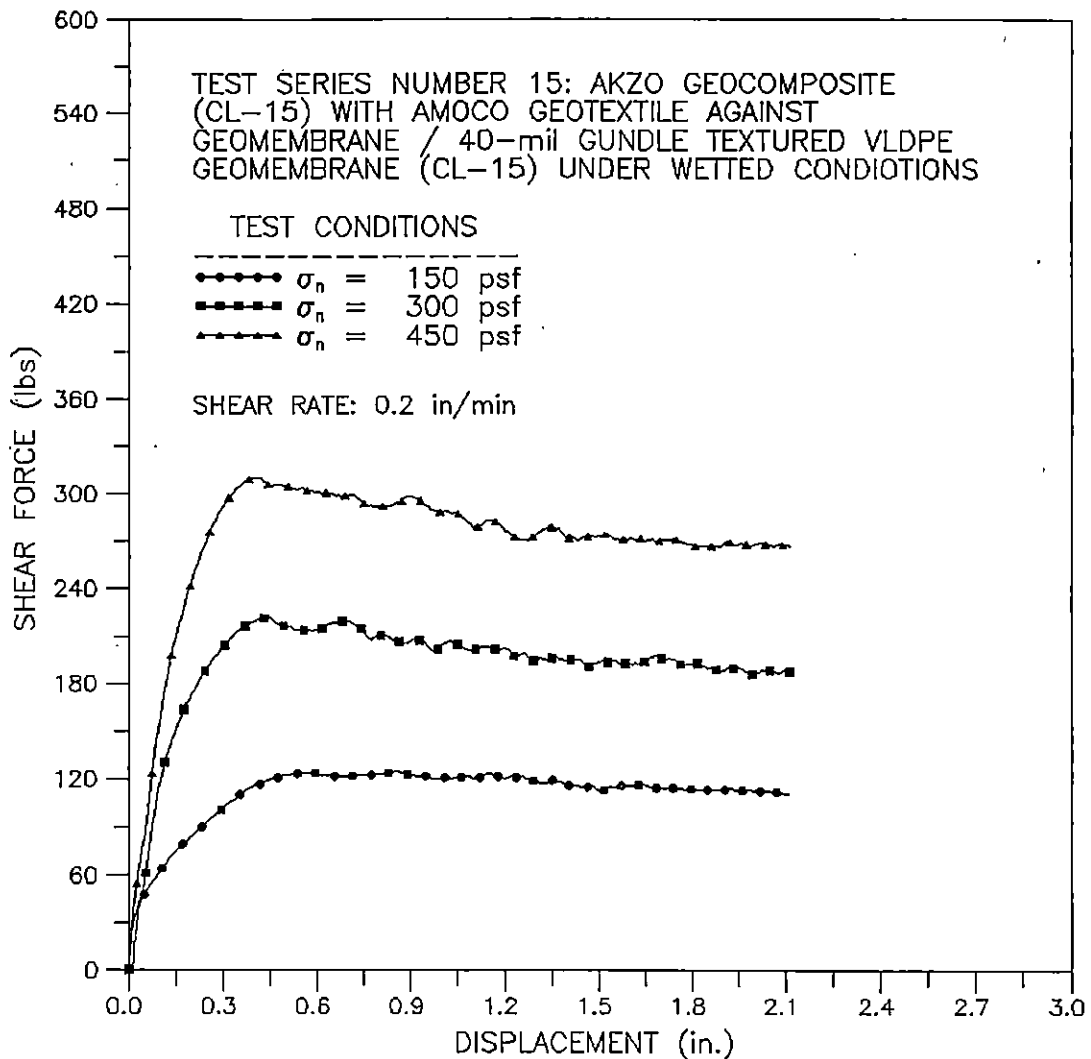
FIGURE NO. C-28

PROJECT NO. GQ3700-03

DOCUMENT NO. SG196084

FILE NO.

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The shear box size was 12 in. by 12 in. (300 mm by 300 mm), and the contact area remained constant throughout the entire test.

DATE TESTED: 7 SEPTEMBER 1995



GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

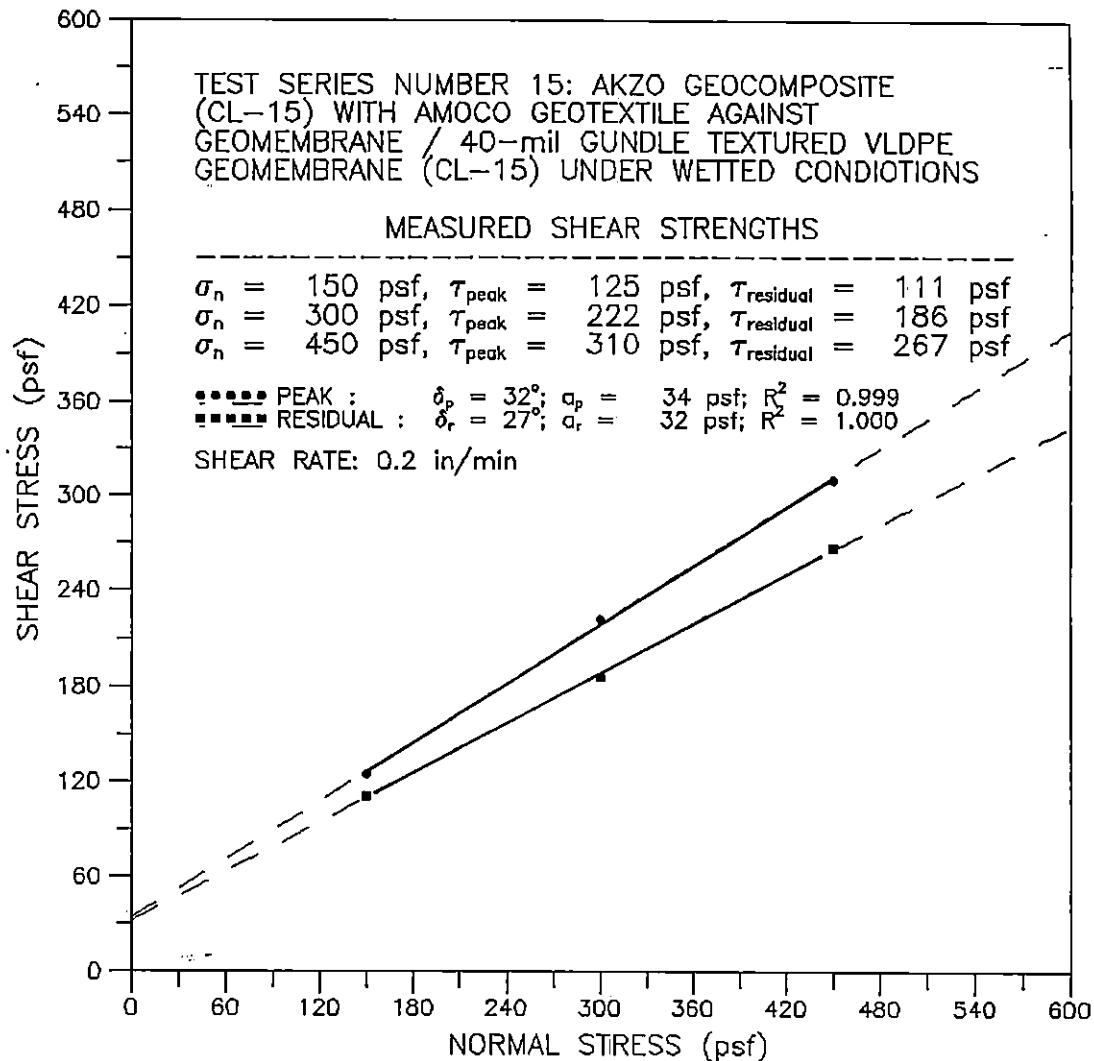
FIGURE NO. C-29

PROJECT NO. GQ3700-03

DOCUMENT NO. SGI96084

FILE NO.

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The reported value of adhesion may not be the true adhesion of the interface, and caution should be exercised in using this adhesion value for applications involving normal stresses outside the range of stresses covered by the test.

DATE TESTED: 7 SEPTEMBER 1995



GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

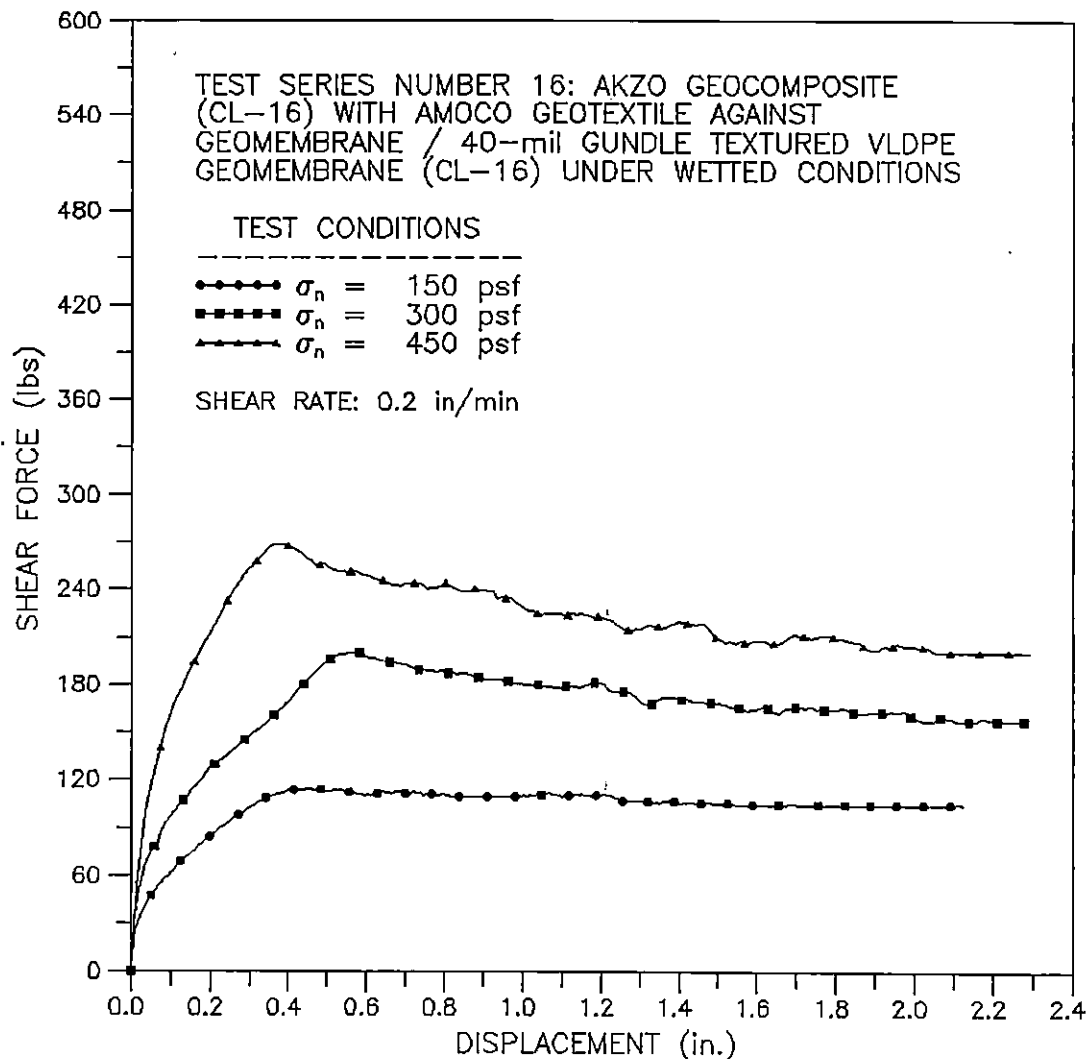
FIGURE NO. C-30

PROJECT NO. GQ3700-03

DOCUMENT NO. SGI96084

FILE NO.

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The shear box size was 12 in. by 12 in. (300 mm by 300 mm), and the contact area remained constant throughout the entire test.

DATE TESTED: 26 SEPTEMBER 1995



GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

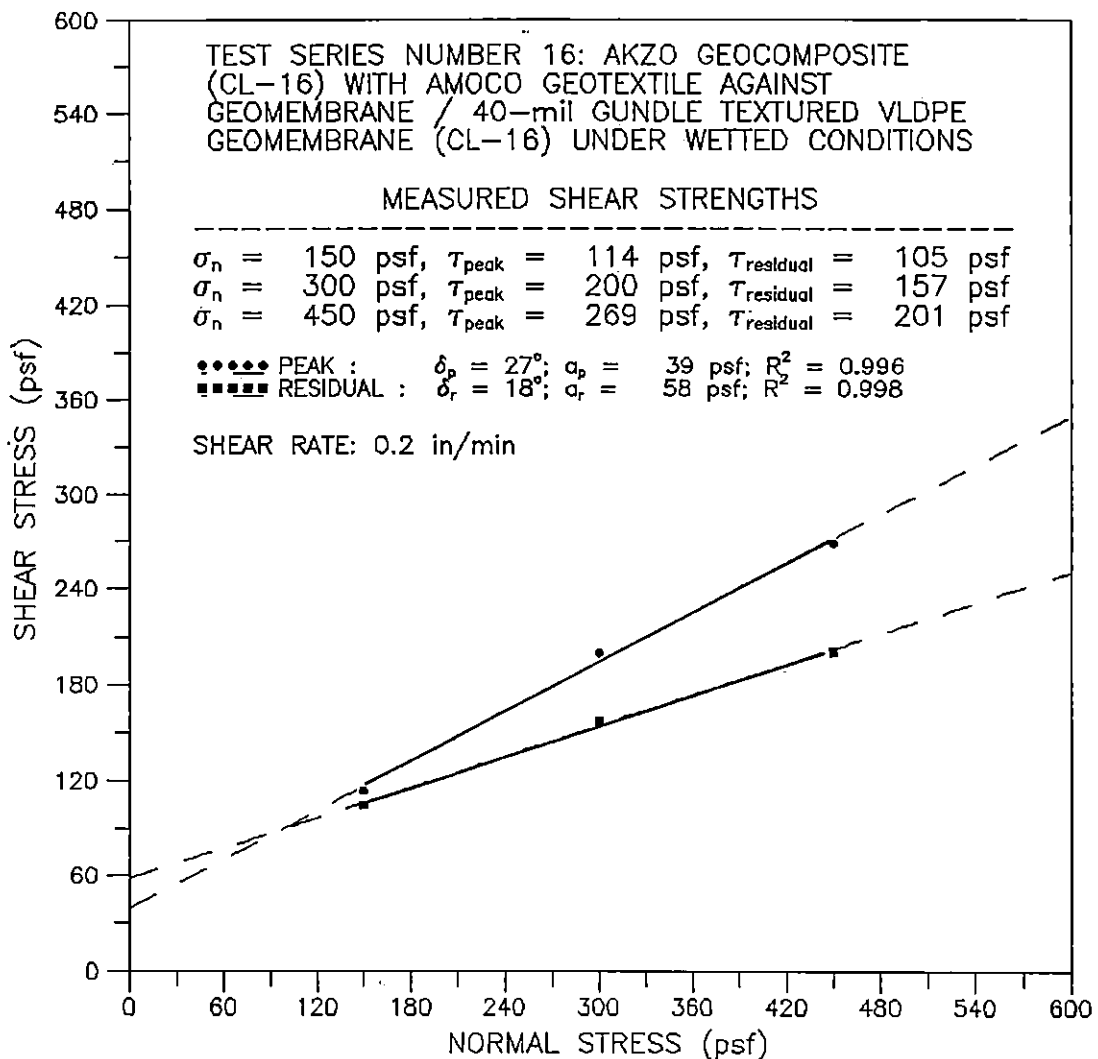
FIGURE NO. C-31

PROJECT NO. GQ3700-03

DOCUMENT NO. GA95336

FILE NO.

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The reported value of adhesion may not be the true adhesion of the interface, and caution should be exercised in using this adhesion value for applications involving normal stresses outside the range of stresses covered by the test.

DATE TESTED: 26 SEPTEMBER 1995



GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

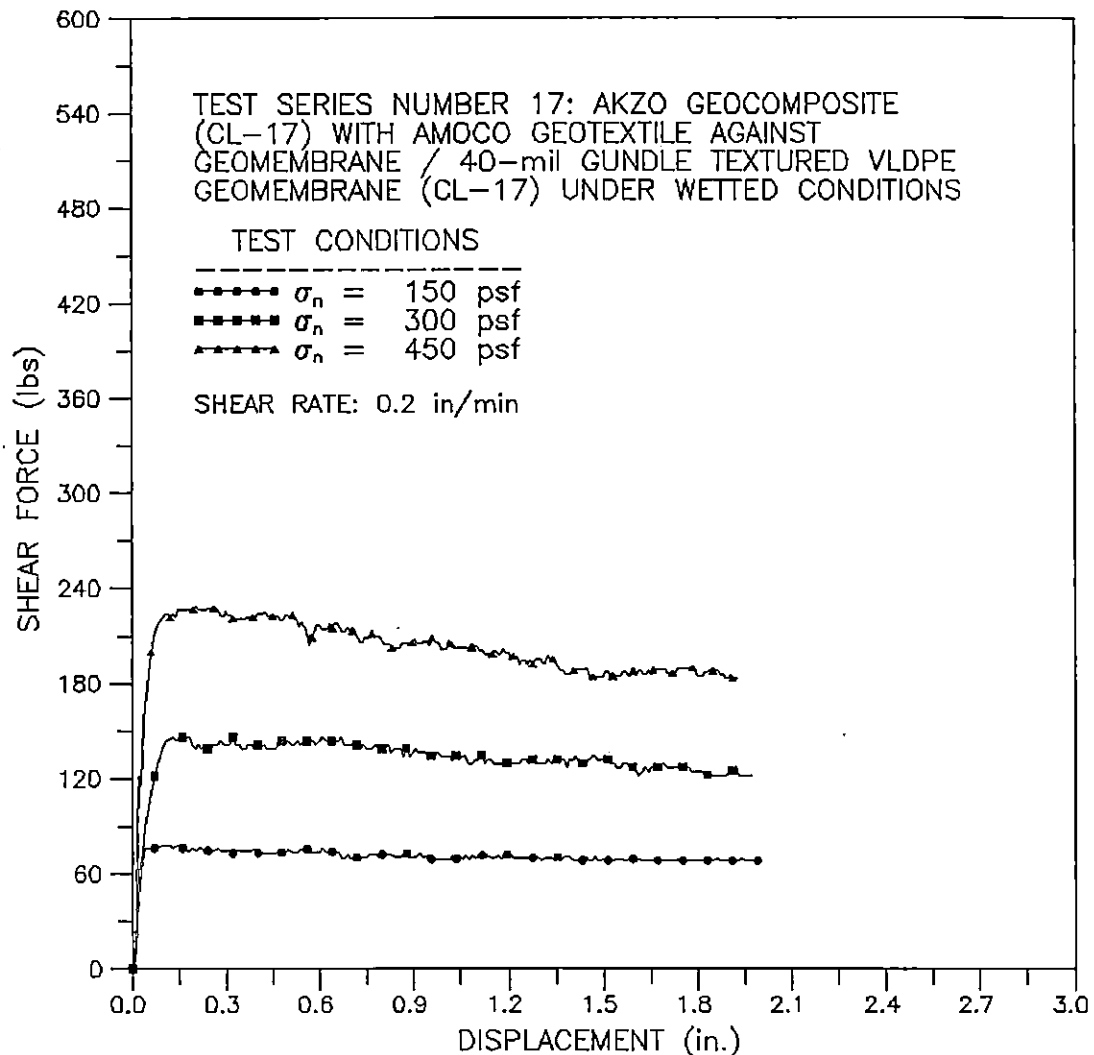
FIGURE NO. C-32

PROJECT NO. GQ3700-03

DOCUMENT NO. GA95115

FILE NO.

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL
INTERFACE DIRECT SHEAR TESTING



NOTE: The shear box size was 12 in. by 12 in.(300 mm by 300 mm), and the contact area remained constant throughout the entire test.

DATE TESTED: 27 SEPTEMBER 1995



GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

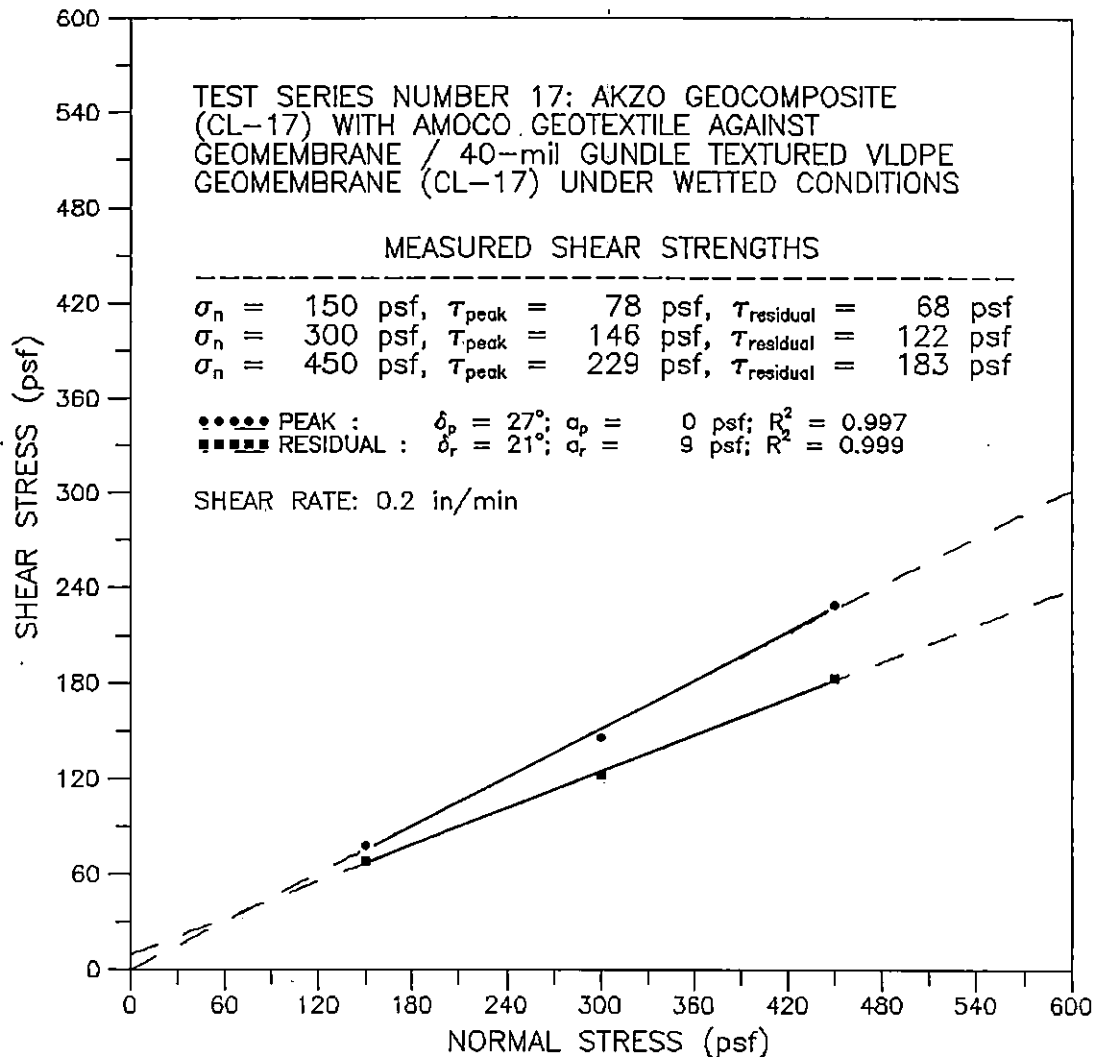
FIGURE NO. C-33

PROJECT NO. GQ3700-03

DOCUMENT NO. SGI96084

FILE NO.

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL
INTERFACE DIRECT SHEAR TESTING



NOTE: The reported value of adhesion may not be the true adhesion of the interface, and caution should be exercised in using this adhesion value for applications involving normal stresses outside the range of stresses covered by the test.

DATE TESTED: 27 SEPTEMBER 1995



GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

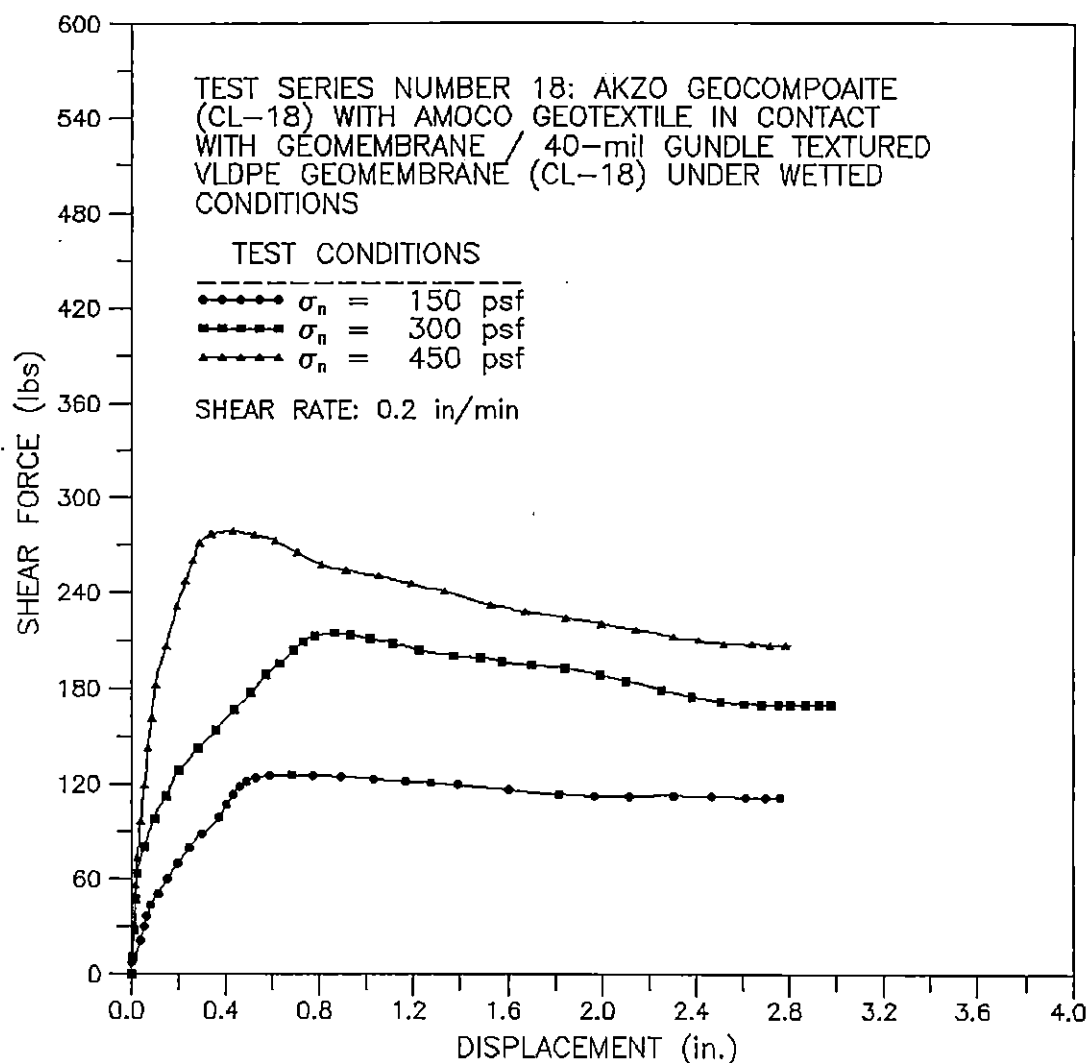
FIGURE NO. C-34

PROJECT NO. GQ3700-03

DOCUMENT NO. SGI96084

FILE NO.

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The shear box size was 12 in. by 12 in. (300 mm by 300 mm), and the contact area remained constant throughout the entire test.

DATE TESTED: 28 SEPTEMBER 1995



GEO SYNTec CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

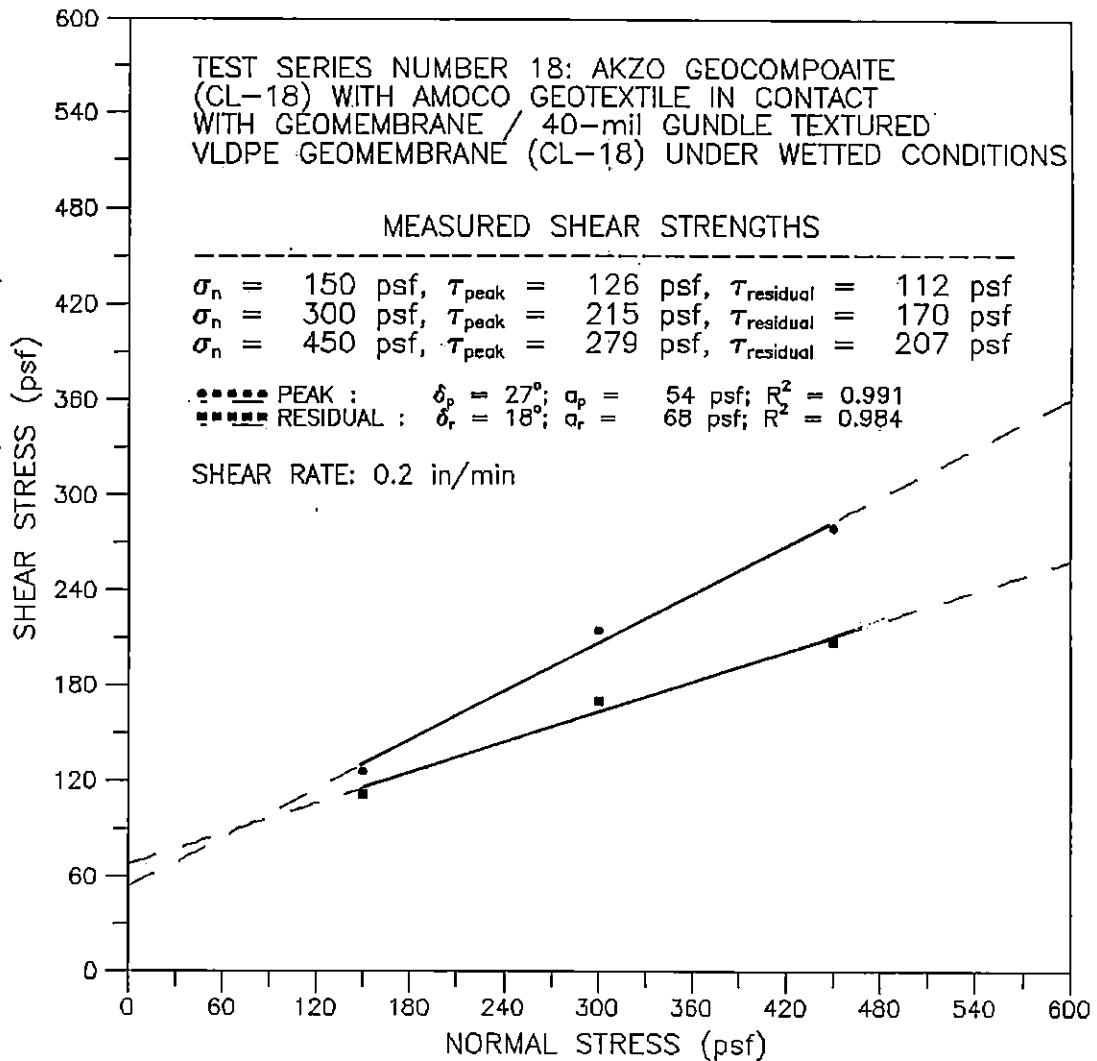
FIGURE NO. C-35

PROJECT NO. GQ3700-03

DOCUMENT NO. SG196084

FILE NO.

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL
INTERFACE DIRECT SHEAR TESTING



NOTE: The reported value of adhesion may not be the true adhesion of the interface, and caution should be exercised in using this adhesion value for applications involving normal stresses outside the range of stresses covered by the test.

DATE TESTED: 28 SEPTEMBER 1995

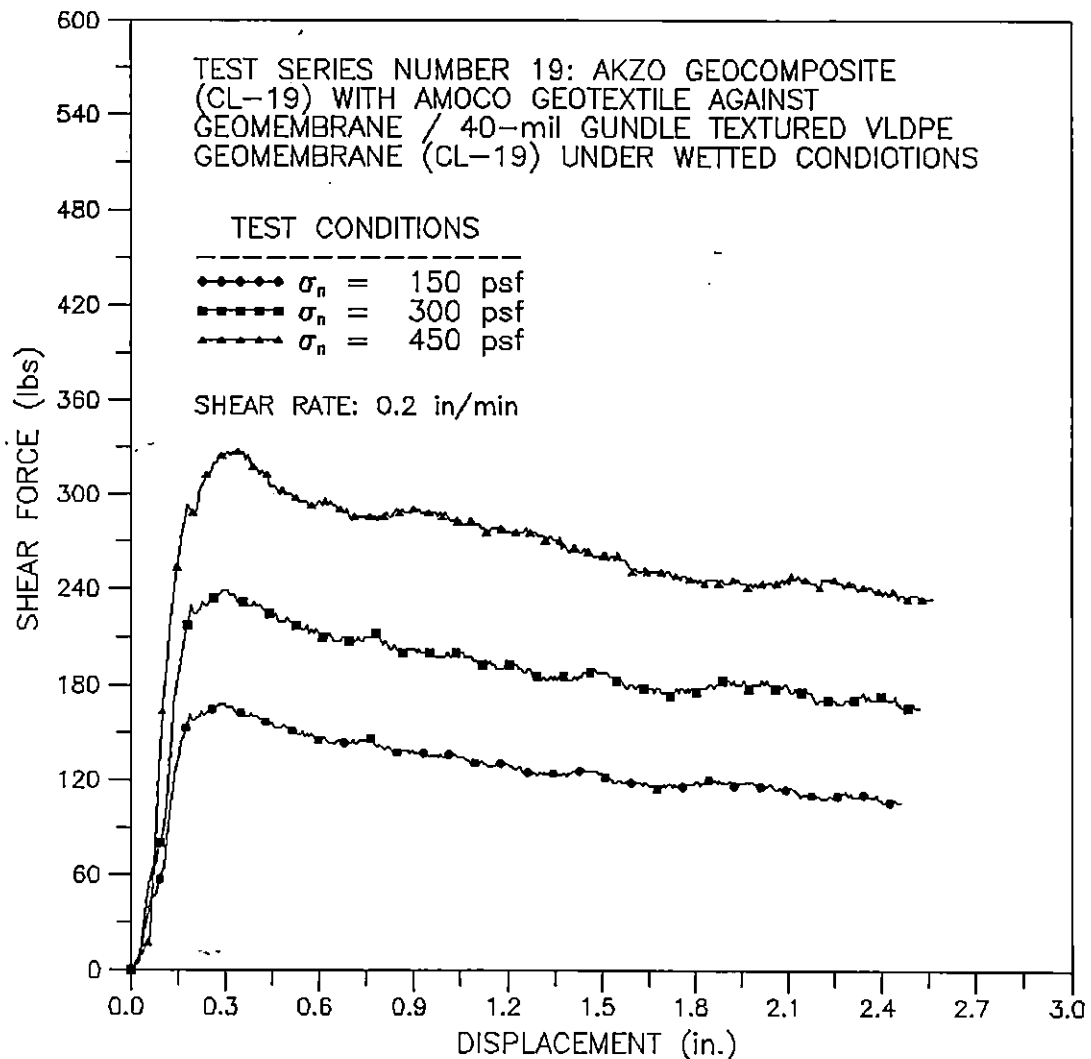


GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.	C-36
PROJECT NO.	GQ3700-03
DOCUMENT NO.	SGI96084
FILE NO.	

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The shear box size was 12 in. by 12 in. (300 mm by 300 mm), and the contact area remained constant throughout the entire test.

DATE TESTED: 29 SEPTEMBER 1995

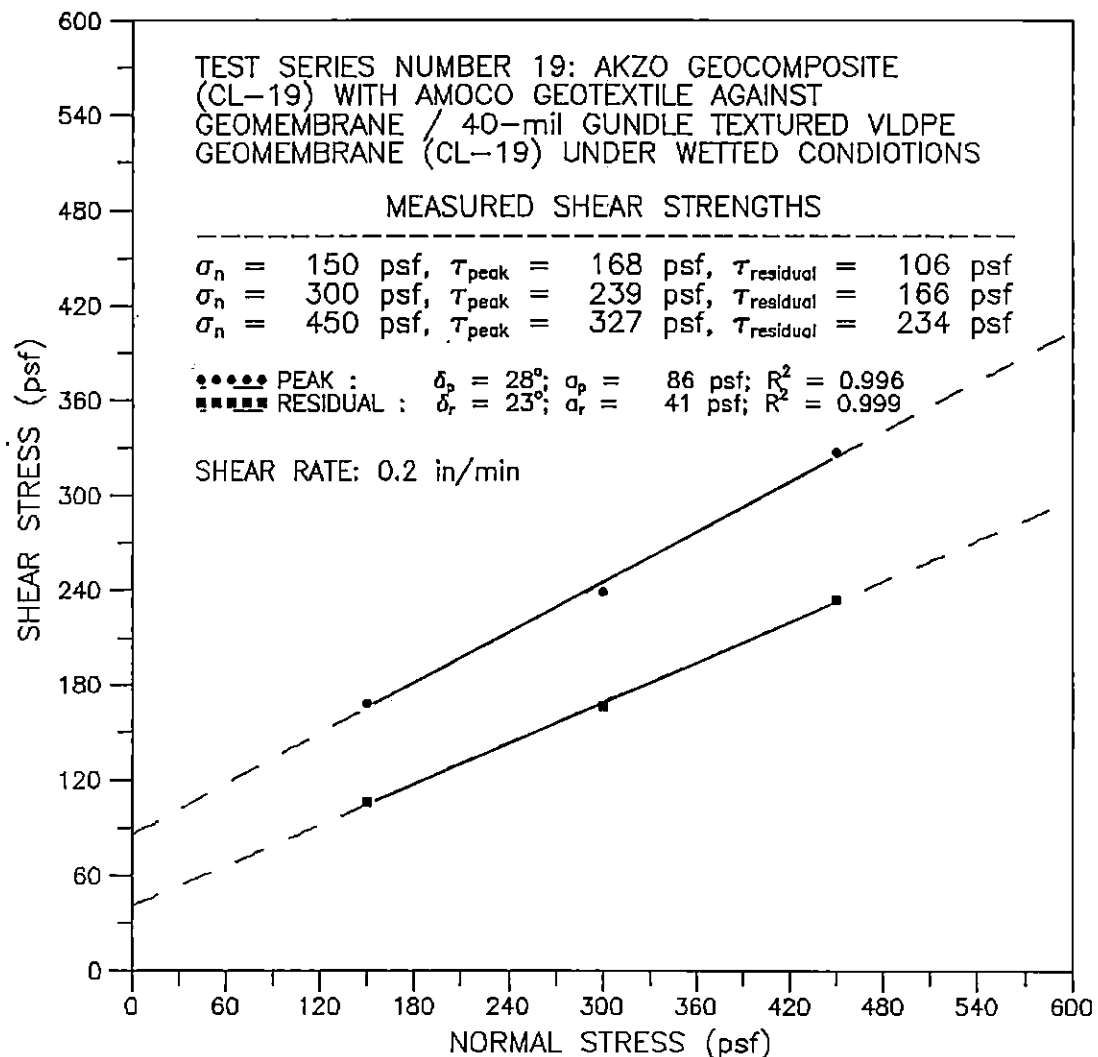


GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.	C-37
PROJECT NO.	G03700-03
DOCUMENT NO.	SGI96084
FILE NO.	

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The reported value of adhesion may not be the true adhesion of the interface, and caution should be exercised in using this adhesion value for applications involving normal stresses outside the range of stresses covered by the test.

DATE TESTED: 29 SEPTEMBER 1995



GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

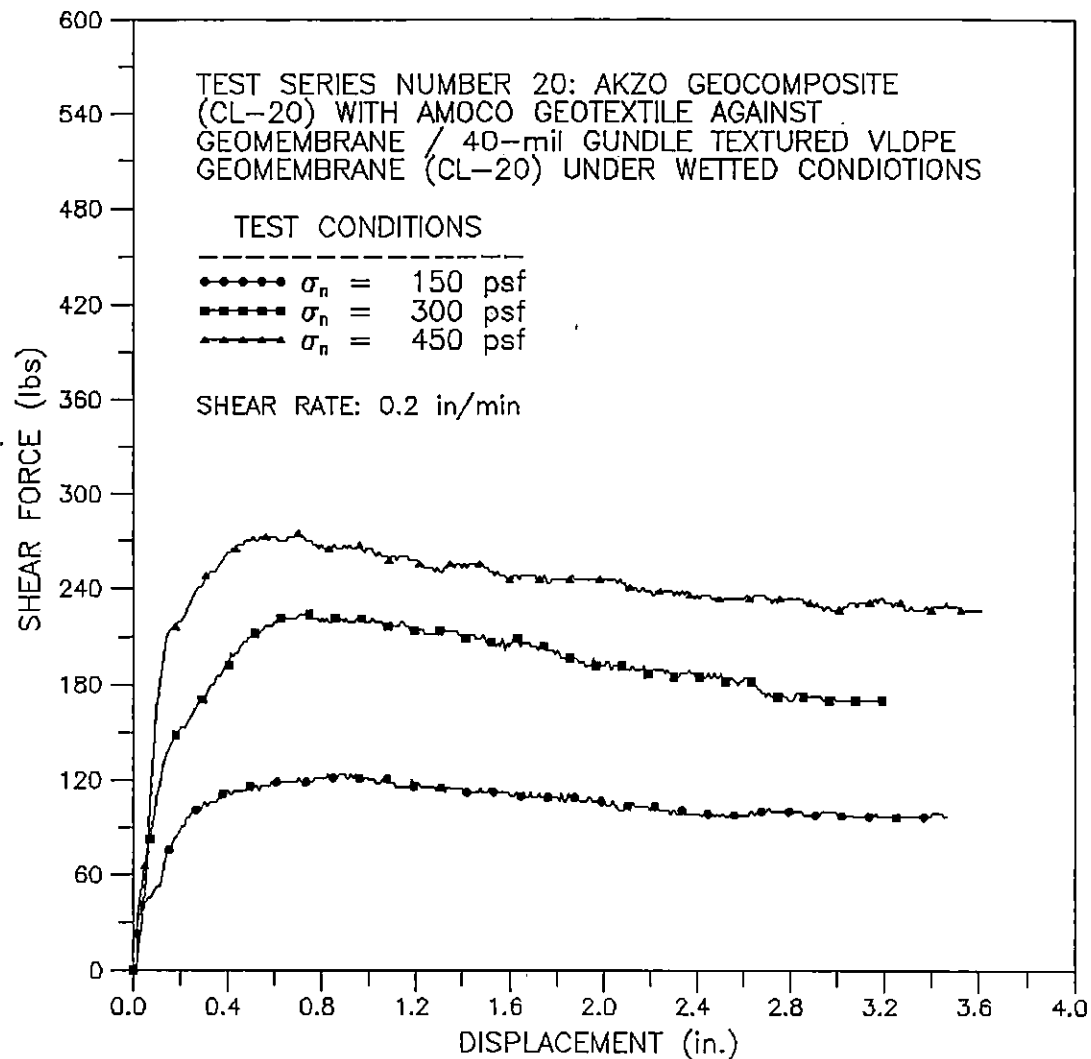
FIGURE NO. C-38

PROJECT NO. GQ3700-03

DOCUMENT NO. SG196084

FILE NO.

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The shear box size was 12 in. by 12 in. (300 mm by 300 mm), and the contact area remained constant throughout the entire test.

DATE TESTED: 2 OCTOBER 1995



GEO SYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

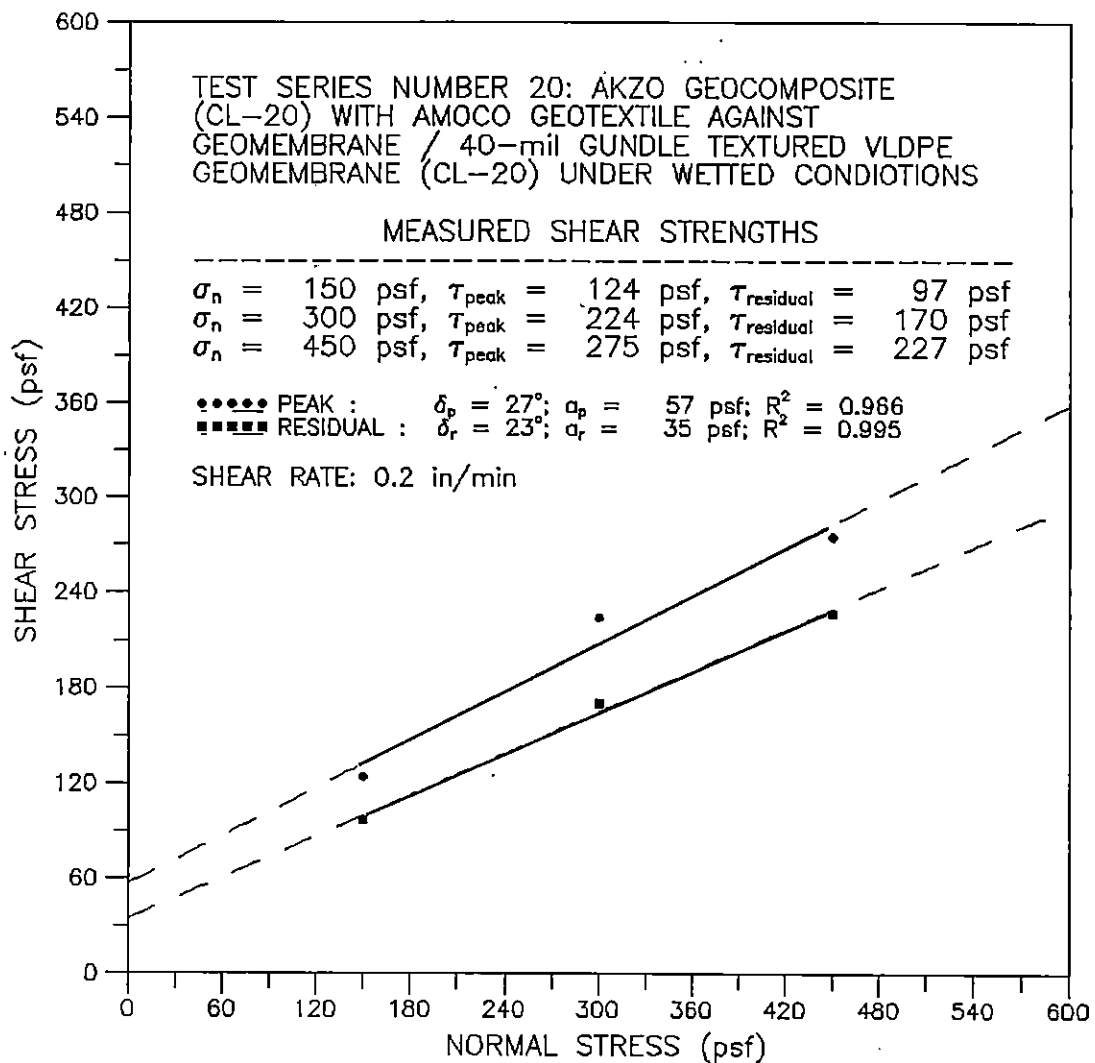
FIGURE NO. C-39

PROJECT NO. GQ3700-03

DOCUMENT NO. SGI96084

FILE NO.

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL
INTERFACE DIRECT SHEAR TESTING



NOTE: The reported value of adhesion may not be the true adhesion of the interface, and caution should be exercised in using this adhesion value for applications involving normal stresses outside the range of stresses covered by the test.

DATE TESTED: 2 OCTOBER 1995



GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

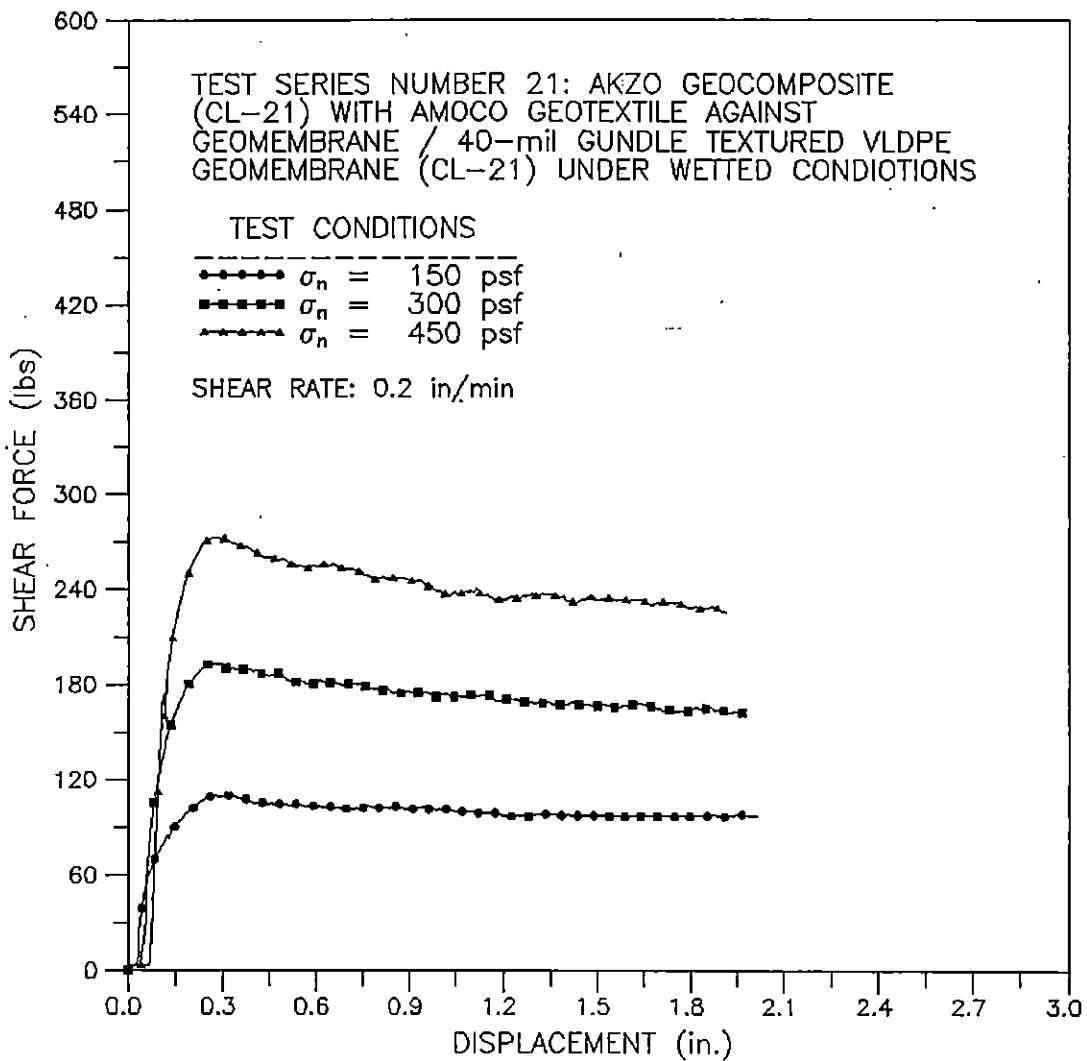
FIGURE NO. C-40

PROJECT NO. GQ3700-03

DOCUMENT NO. SG196084

FILE NO.

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The shear box size was 12 in. by 12 in.(300 mm by 300 mm), and the contact area remained constant throughout the entire test.

DATE TESTED: 3 OCTOBER 1995

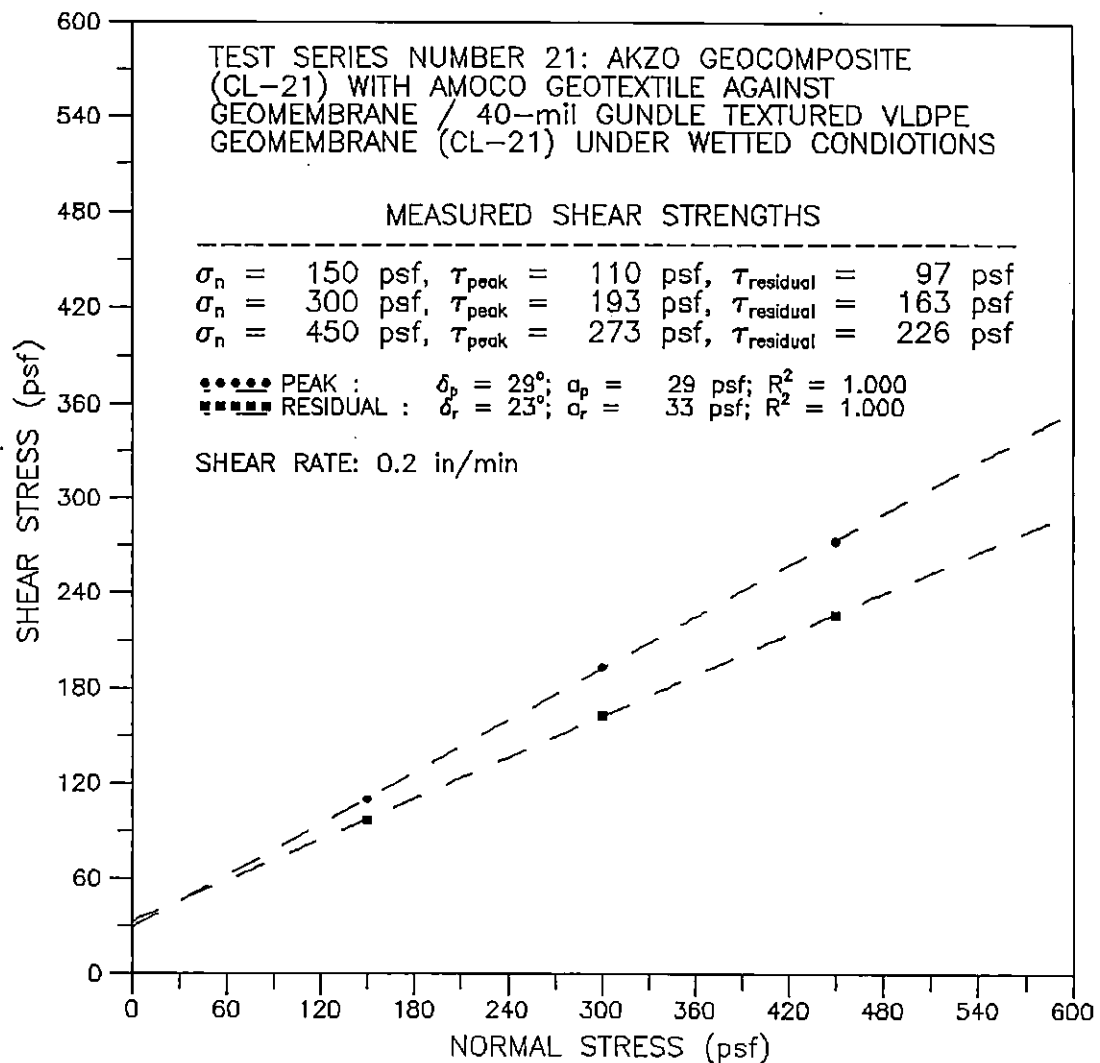


GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.	C-41
PROJECT NO.	GQ3700-03
DOCUMENT NO.	SGI96084
FILE NO.	

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL
INTERFACE DIRECT SHEAR TESTING



NOTE: The reported value of adhesion may not be the true adhesion of the interface, and caution should be exercised in using this adhesion value for applications involving normal stresses outside the range of stresses covered by the test.

DATE TESTED: 3 OCTOBER 1995



GEO SYNTec CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.

C-42

PROJECT NO.

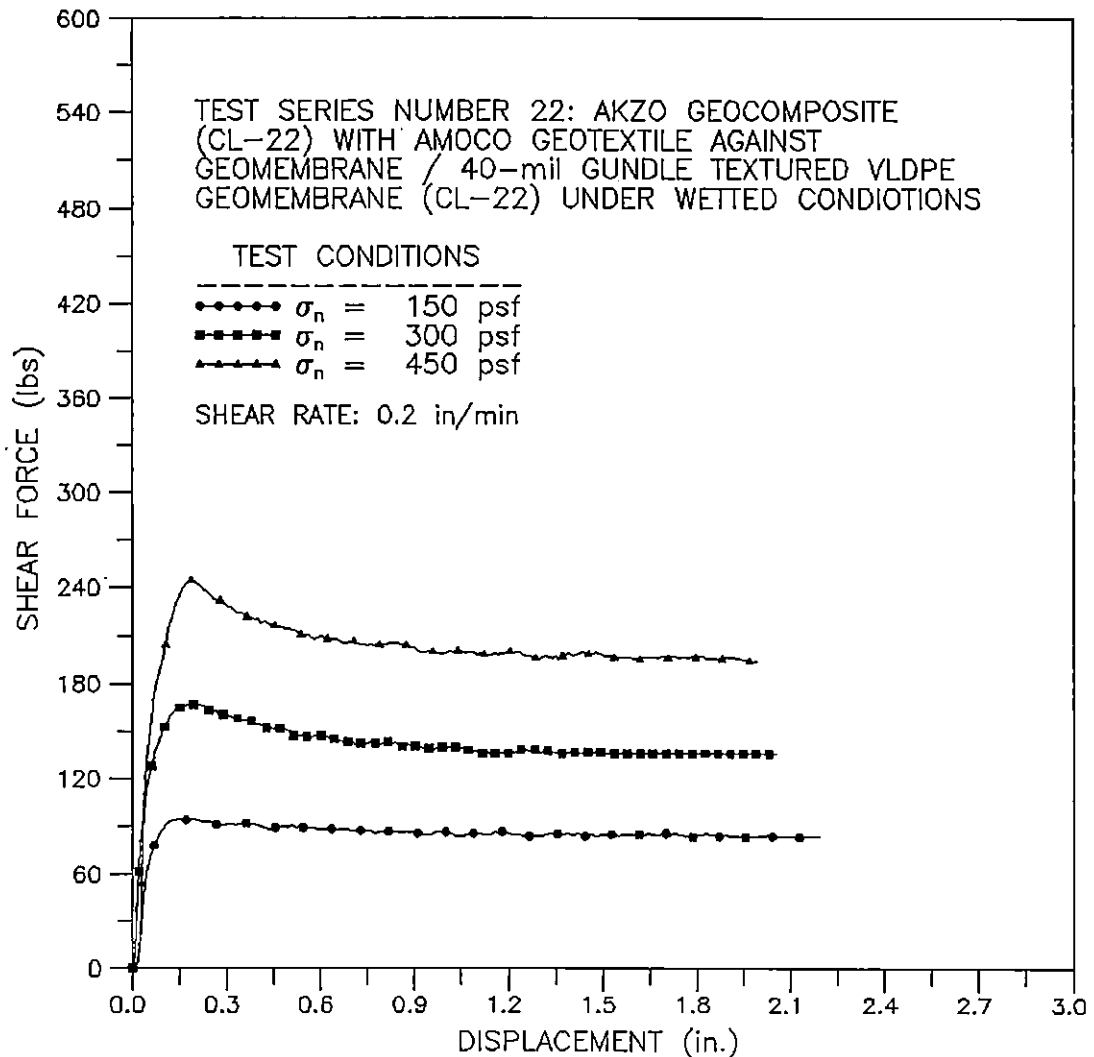
GQ3700-03

DOCUMENT NO.

SGI96084

FILE NO.

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The shear box size was 12 in. by 12 in. (300 mm by 300 mm), and the contact area remained constant throughout the entire test.

DATE TESTED: 5 OCTOBER 1995



GEO SYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

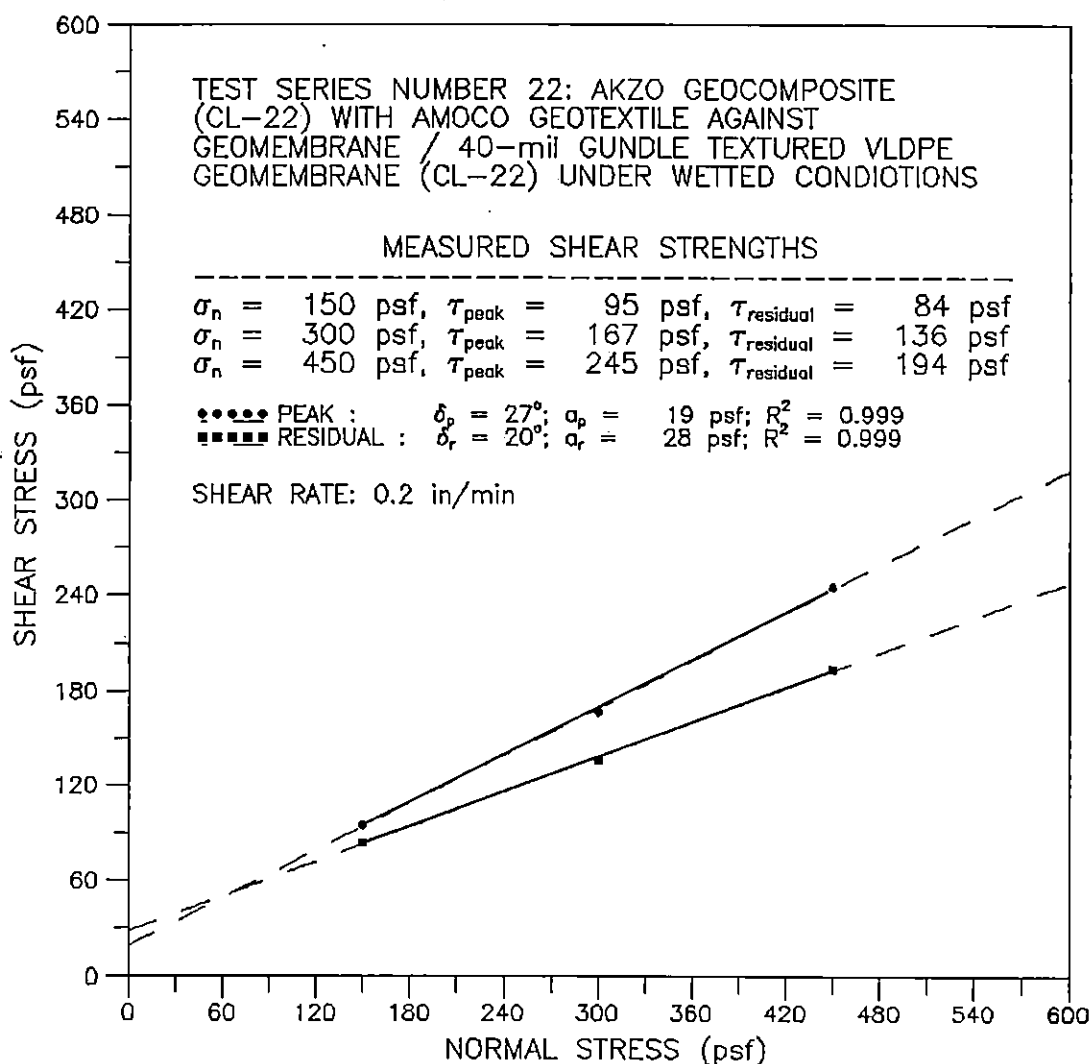
FIGURE NO. C-43

PROJECT NO. GQ3700-03

DOCUMENT NO. SG196084

FILE NO.

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The reported value of adhesion may not be the true adhesion of the interface, and caution should be exercised in using this adhesion value for applications involving normal stresses outside the range of stresses covered by the test.

DATE TESTED: 5 OCTOBER 1995

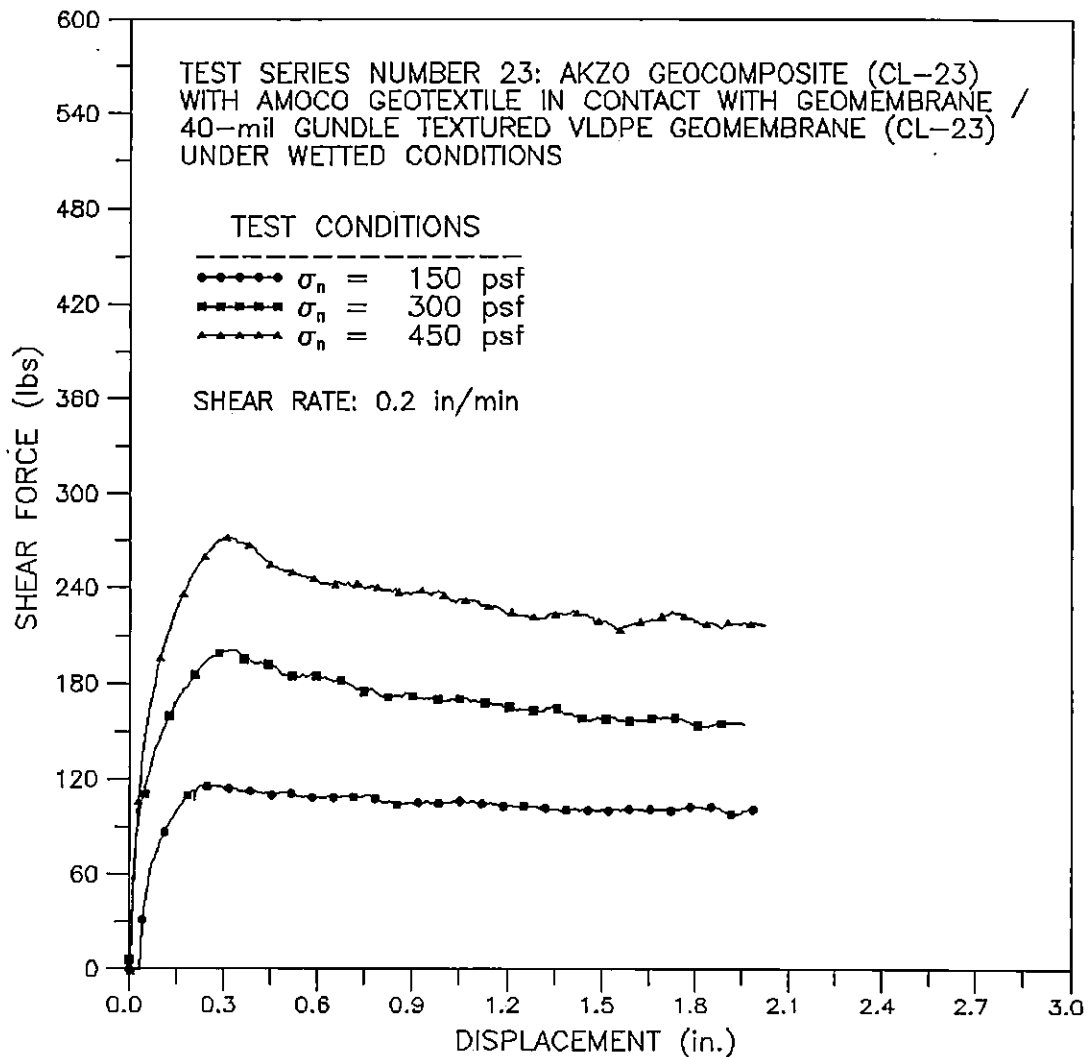


GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.	C-44
PROJECT NO.	GQ3700-03
DOCUMENT NO.	SGI96084
FILE NO.	

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The shear box size was 12 in. by 12 in. (300 mm by 300 mm), and the contact area remained constant throughout the entire test.

DATE TESTED: 6 OCTOBER 1995

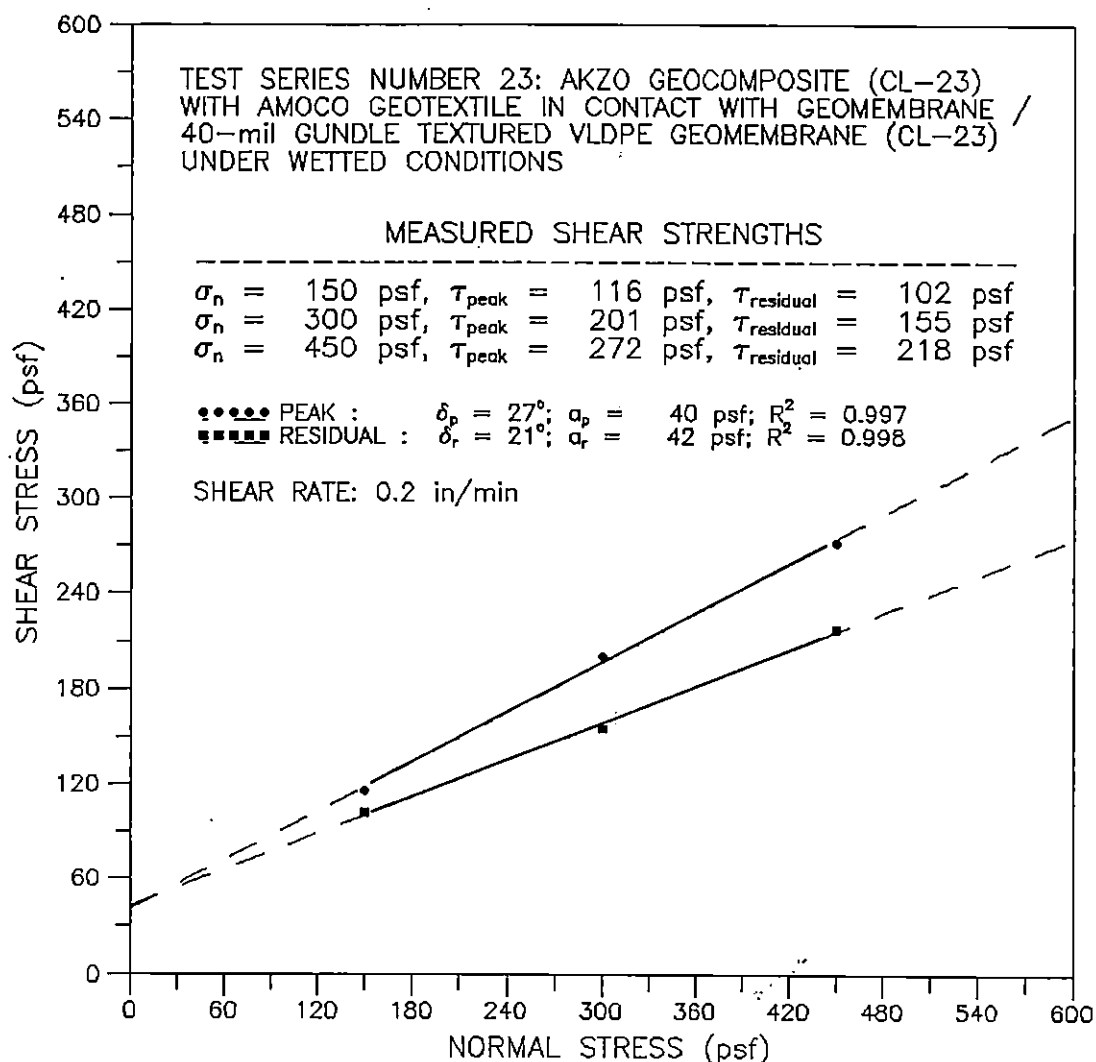


GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.	C-45
PROJECT NO.	GQ3700-03
DOCUMENT NO.	SGI96084
FILE NO.	

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The reported value of adhesion may not be the true adhesion of the interface, and caution should be exercised in using this adhesion value for applications involving normal stresses outside the range of stresses covered by the test.

DATE TESTED: 6 OCTOBER 1995

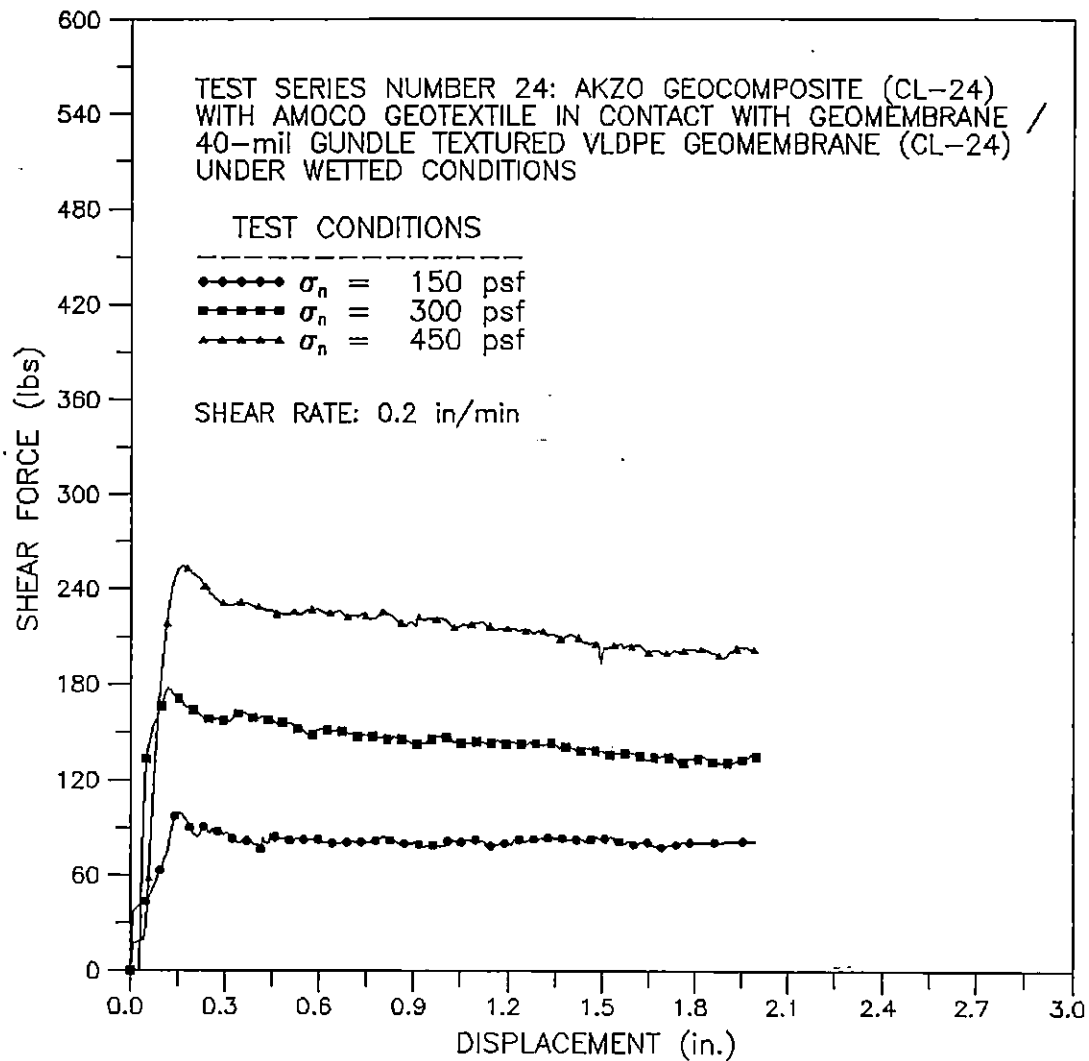


GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.	C-46
PROJECT NO.	GQ3700-03
DOCUMENT NO.	SGI96084
FILE NO.	

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The shear box size was 12 in. by 12 in. (300 mm by 300 mm), and the contact area remained constant throughout the entire test.

DATE TESTED: 9 OCTOBER 1995



GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

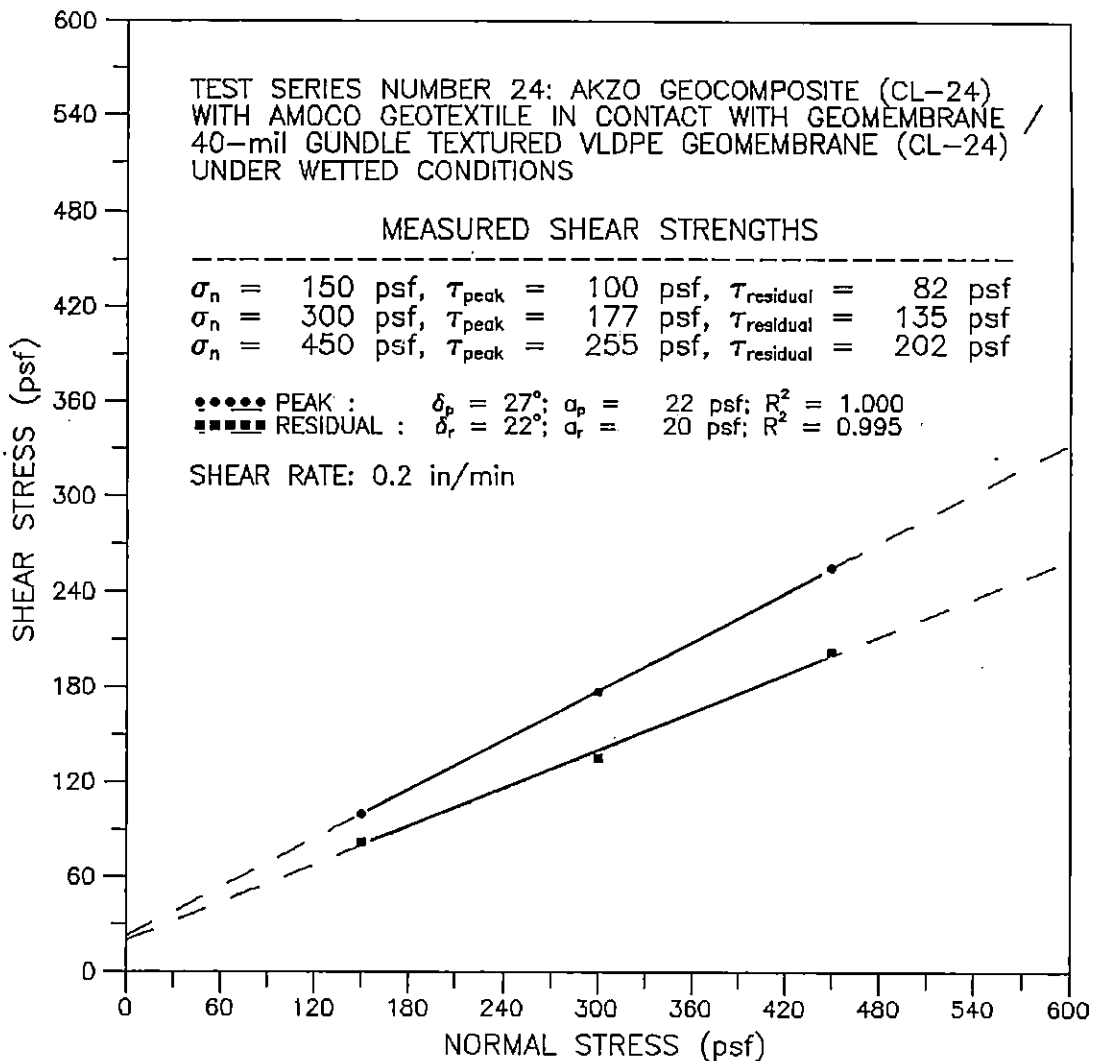
FIGURE NO. C-47

PROJECT NO. GQ3700-03

DOCUMENT NO. SGI96084

FILE NO.

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL
INTERFACE DIRECT SHEAR TESTING



NOTE: The reported value of adhesion may not be the true adhesion of the interface, and caution should be exercised in using this adhesion value for applications involving normal stresses outside the range of stresses covered by the test.

DATE TESTED: 9 OCTOBER 1995

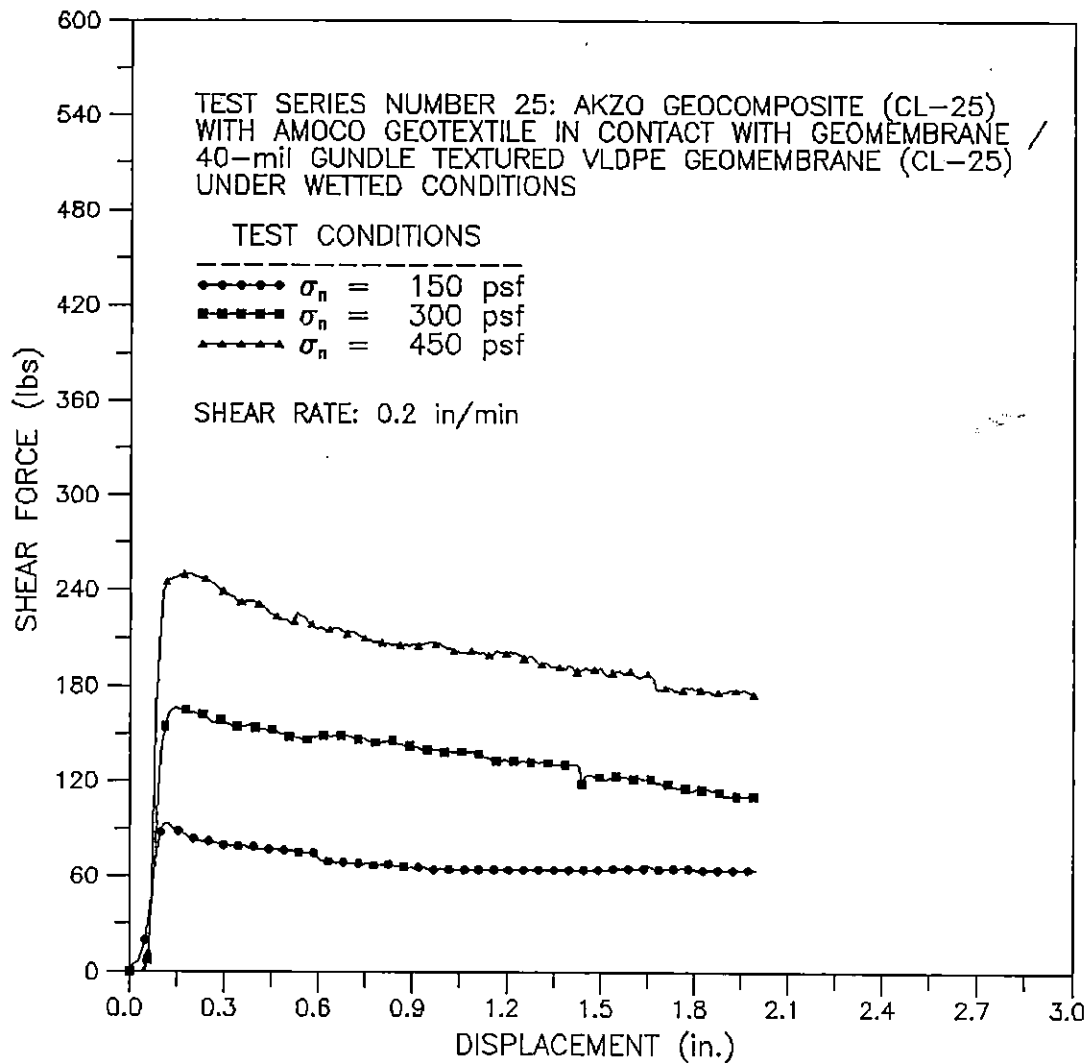


GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.	C-48
PROJECT NO.	GQ3700-03
DOCUMENT NO.	SG196084
FILE NO.	

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The shear box size was 12 in. by 12 in. (300 mm by 300 mm), and the contact area remained constant throughout the entire test.

DATE TESTED: 11 OCTOBER 1995



GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

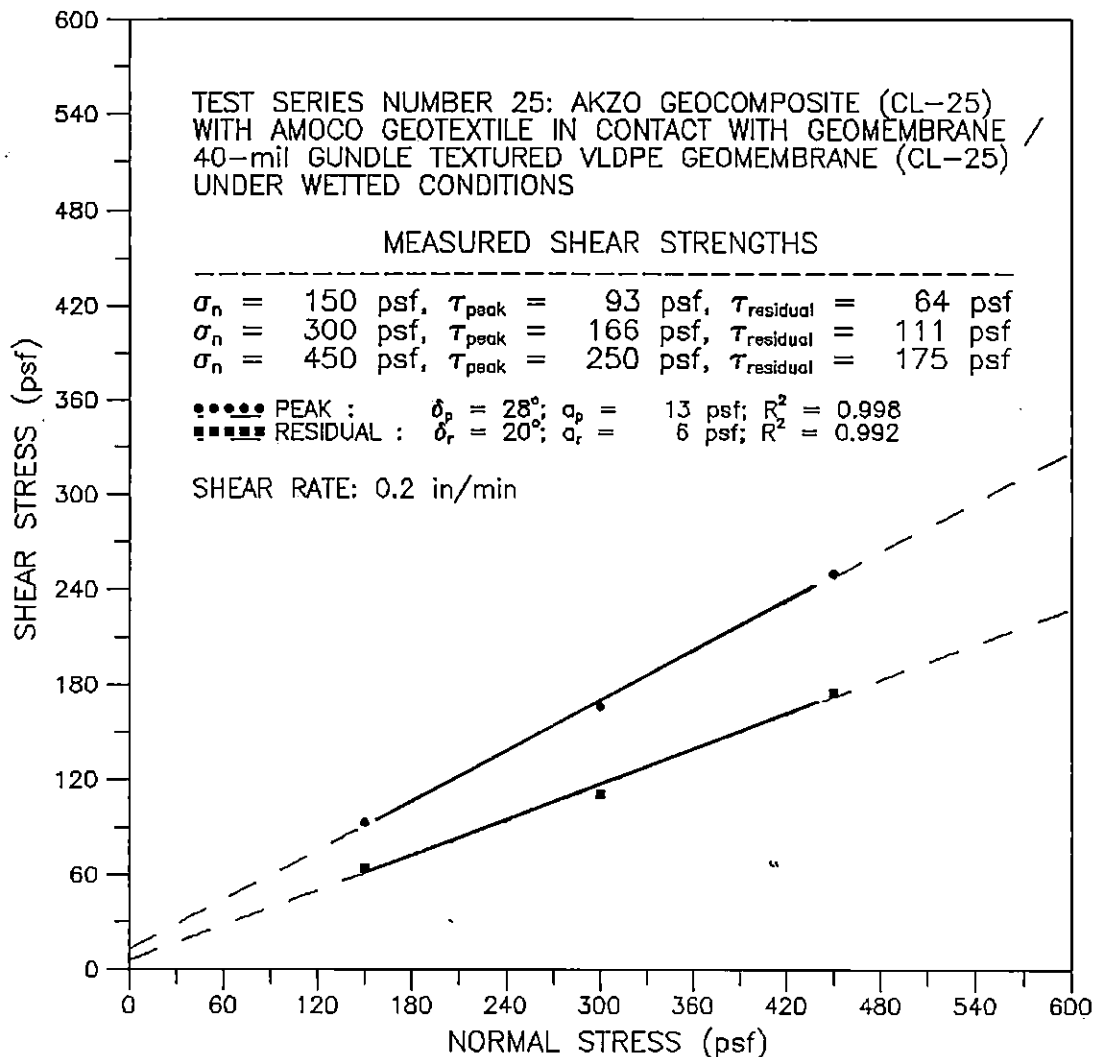
FIGURE NO. C-49

PROJECT NO. GQ3700-03

DOCUMENT NO. SGI96084

FILE NO.

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The reported value of adhesion may not be the true adhesion of the interface, and caution should be exercised in using this adhesion value for applications involving normal stresses outside the range of stresses covered by the test.

DATE TESTED: 11 OCTOBER 1995



GEO SYNTec CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

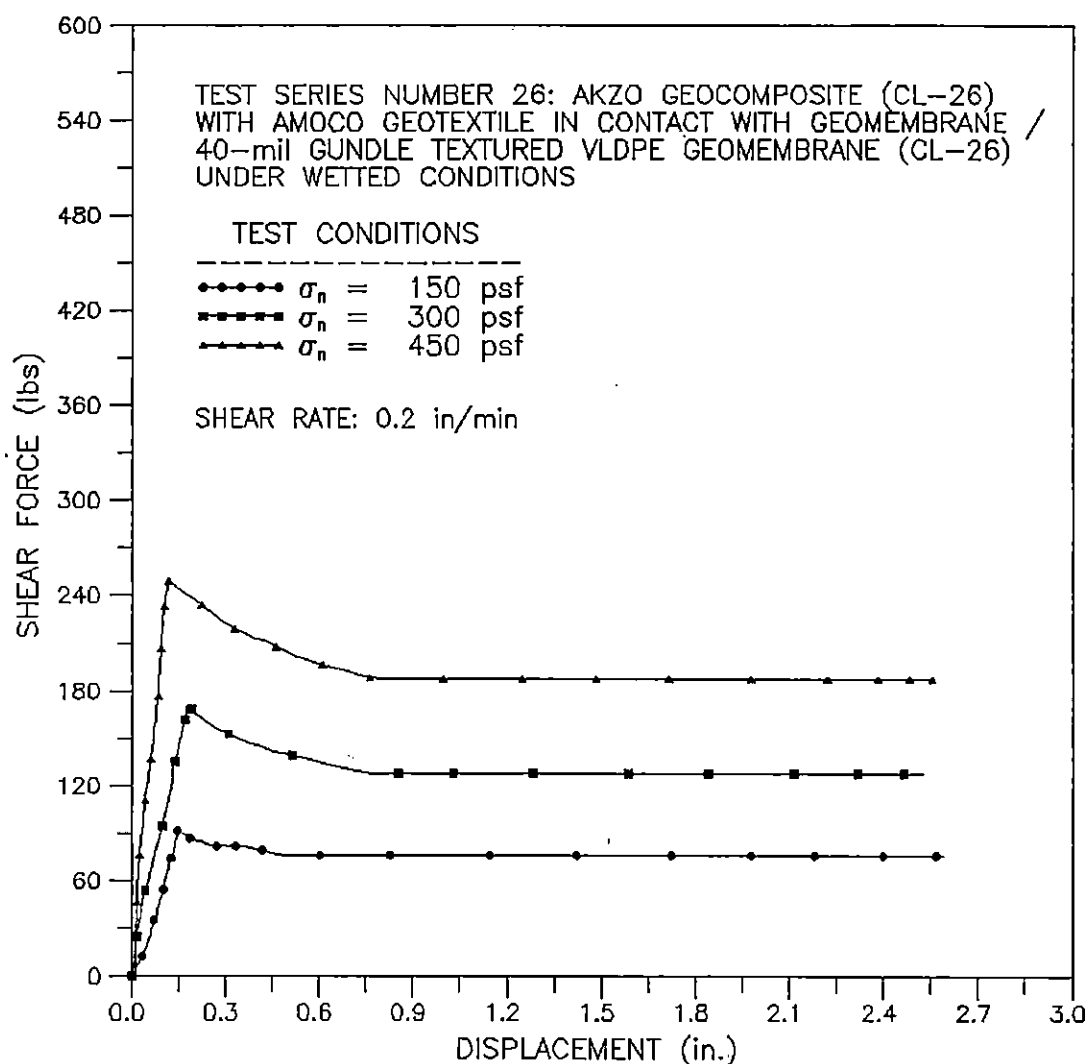
FIGURE NO. C-50

PROJECT NO. GQ3700-03

DOCUMENT NO. SGI96084

FILE NO.

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The shear box size was 12 in. by 12 in. (300 mm by 300 mm), and the contact area remained constant throughout the entire test.

DATE TESTED: 13 OCTOBER 1995



GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

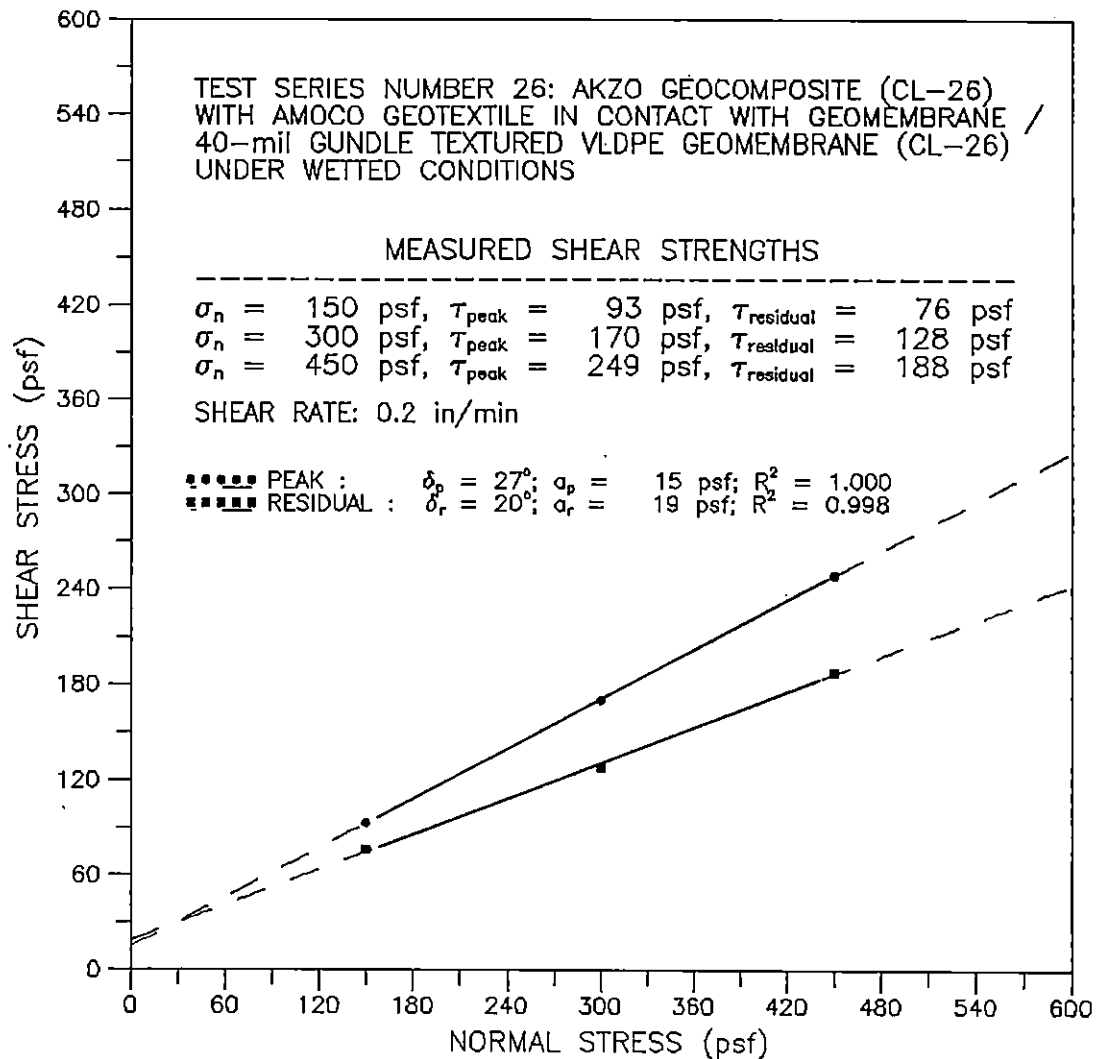
FIGURE NO. C-51

PROJECT NO. GQ3700-03

DOCUMENT NO. SG196084

FILE NO.

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The reported value of adhesion may not be the true adhesion of the interface, and caution should be exercised in using this adhesion value for applications involving normal stresses outside the range of stresses covered by the test.

DATE TESTED: 13 OCTOBER 1995



GeoSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

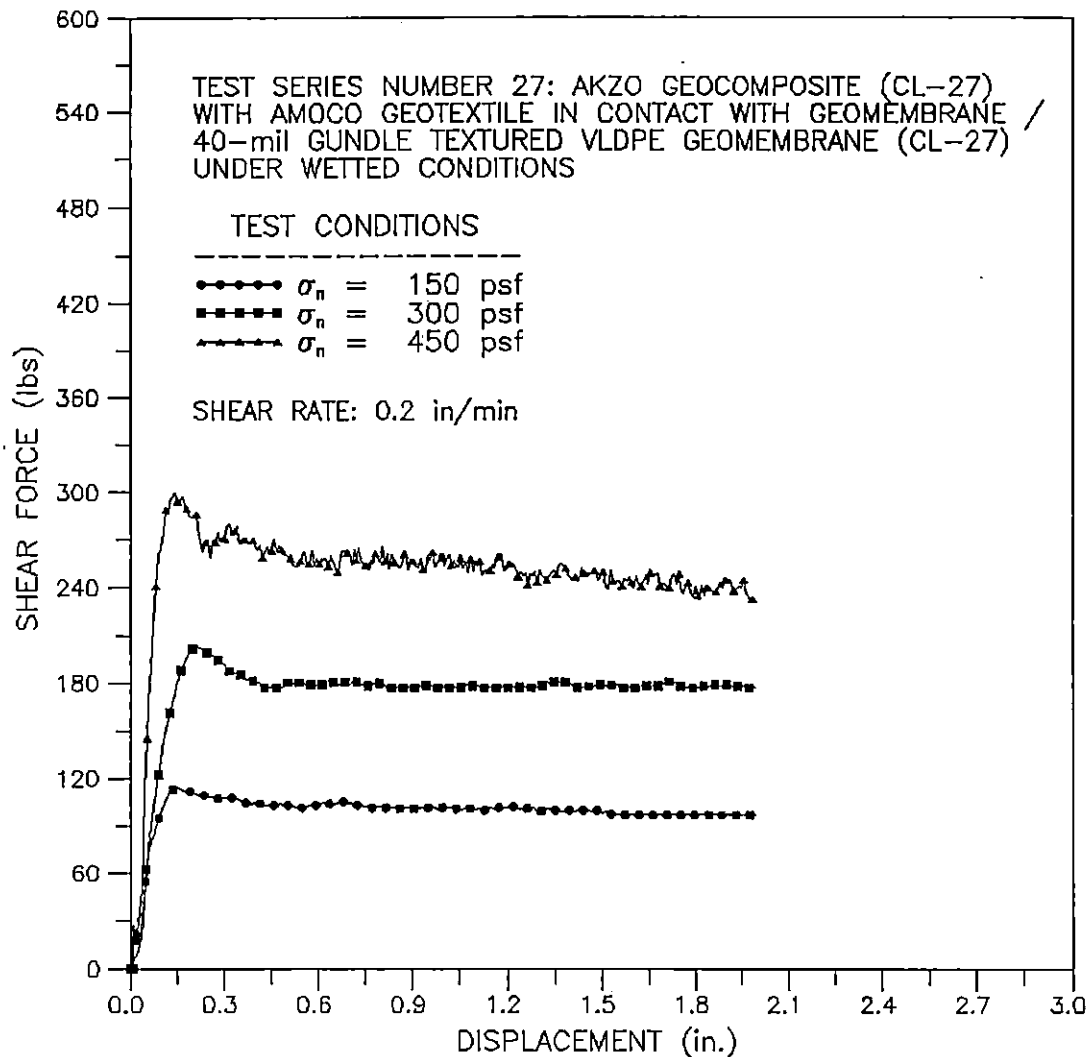
FIGURE NO. C-52

PROJECT NO. GQ3700-03

DOCUMENT NO. SGI96084

FILE NO.

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The shear box size was 12 in. by 12 in. (300 mm by 300 mm),
and the contact area remained constant throughout the
entire test.

DATE TESTED: 16 OCTOBER 1995

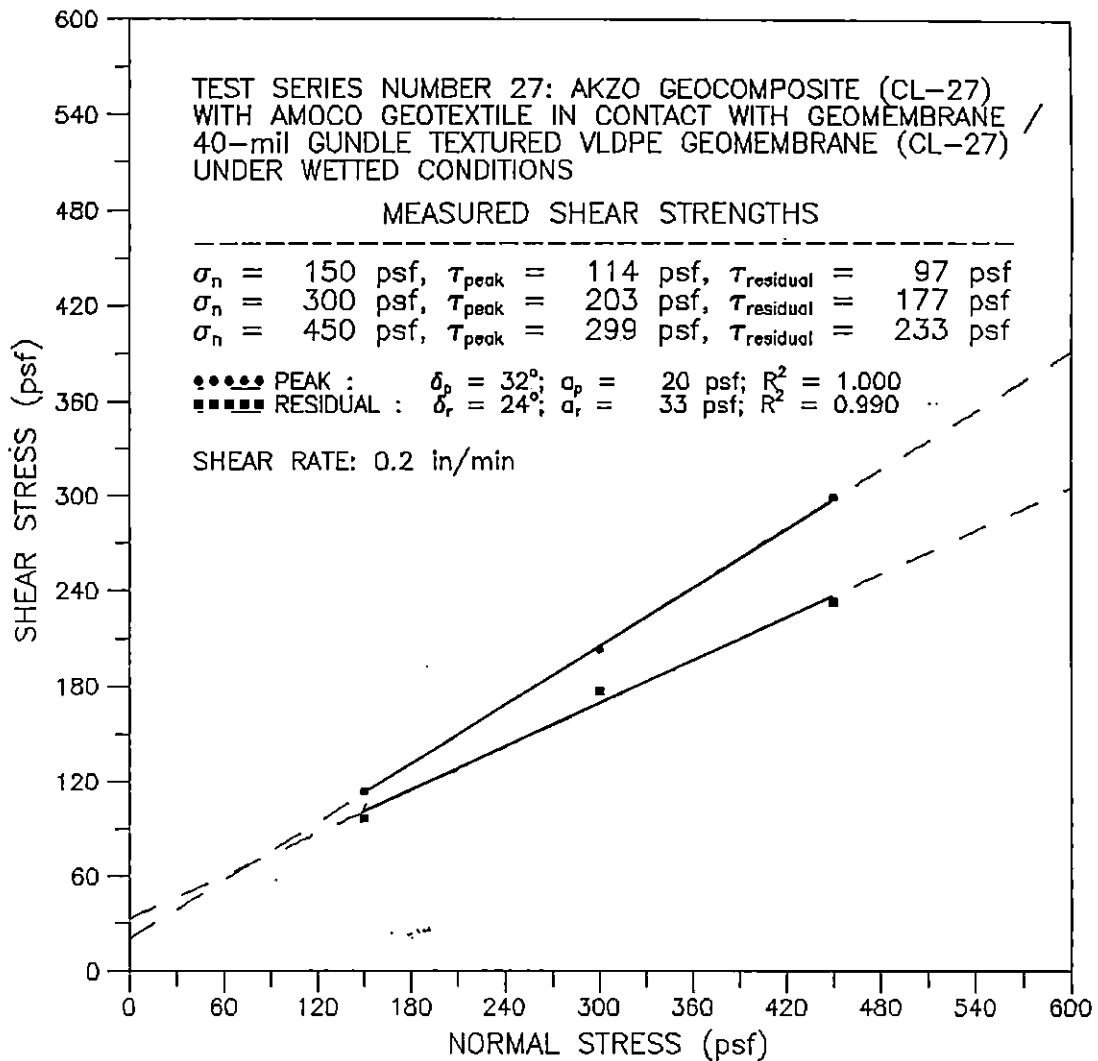


GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.	C-53
PROJECT NO.	GQ3700-03
DOCUMENT NO.	SGI96084
FILE NO.	

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The reported value of adhesion may not be the true adhesion of the interface, and caution should be exercised in using this adhesion value for applications involving normal stresses outside the range of stresses covered by the test.

DATE TESTED: 16 OCTOBER 1995



GeoSyntec Consultants

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

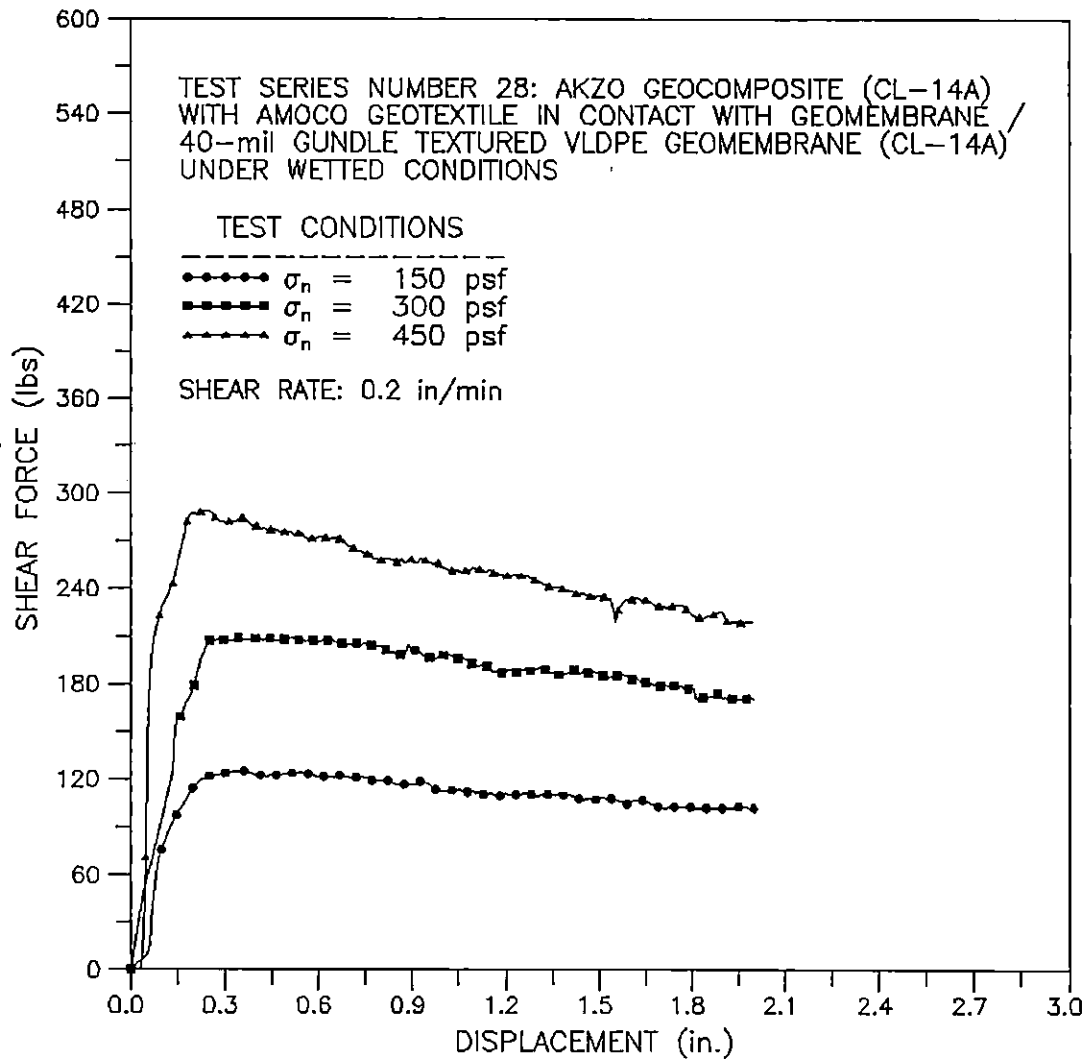
FIGURE NO. C-54

PROJECT NO. GQ3700-03

DOCUMENT NO. SGI96084

FILE NO.

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The shear box size was 12 in. by 12 in. (300 mm by 300 mm), and the contact area remained constant throughout the entire test.

DATE TESTED: 16 OCTOBER 1995



GEO SYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

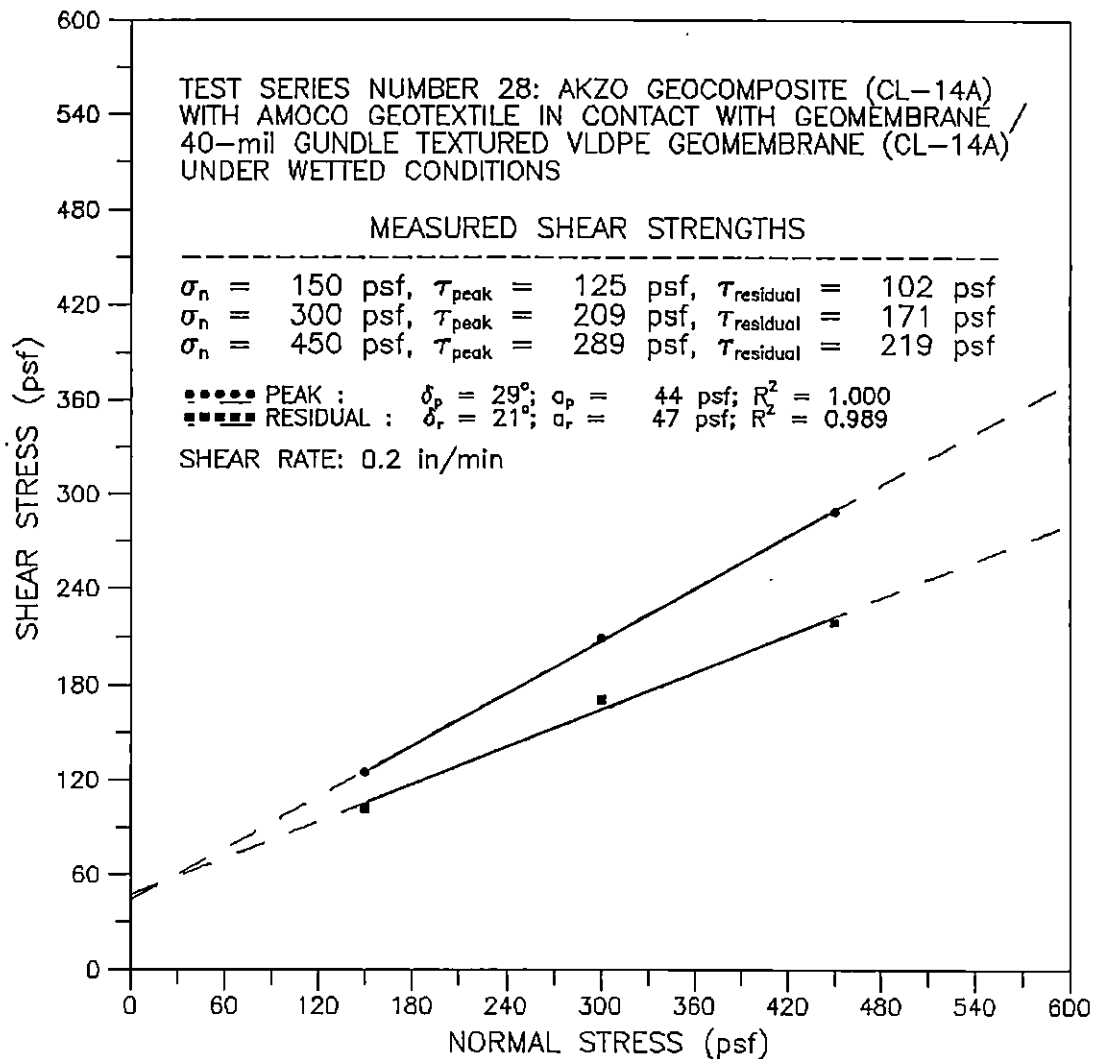
FIGURE NO. C-55

PROJECT NO. GQ3700-03

DOCUMENT NO. SGI96084

FILE NO.

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL
INTERFACE DIRECT SHEAR TESTING



NOTE: The reported value of adhesion may not be the true adhesion of the interface, and caution should be exercised in using this adhesion value for applications involving normal stresses outside the range of stresses covered by the test.

DATE TESTED: 16 OCTOBER 1995



GeoSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

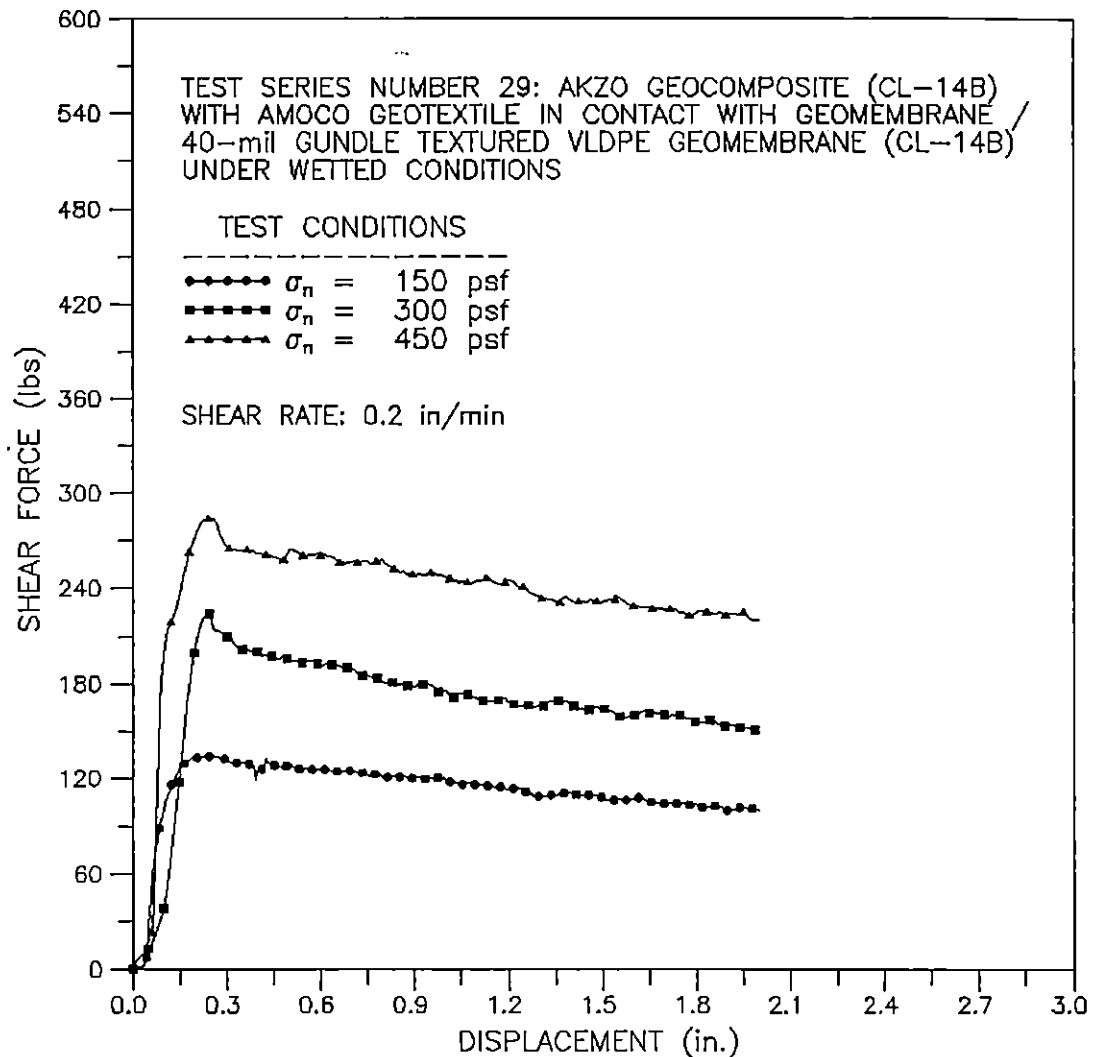
FIGURE NO. C-56

PROJECT NO. GQ3700-03

DOCUMENT NO. SGI96084

FILE NO.

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The shear box size was 12 in. by 12 in. (300 mm by 300 mm), and the contact area remained constant throughout the entire test.

DATE TESTED: 16 OCTOBER 1995



GEO SYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

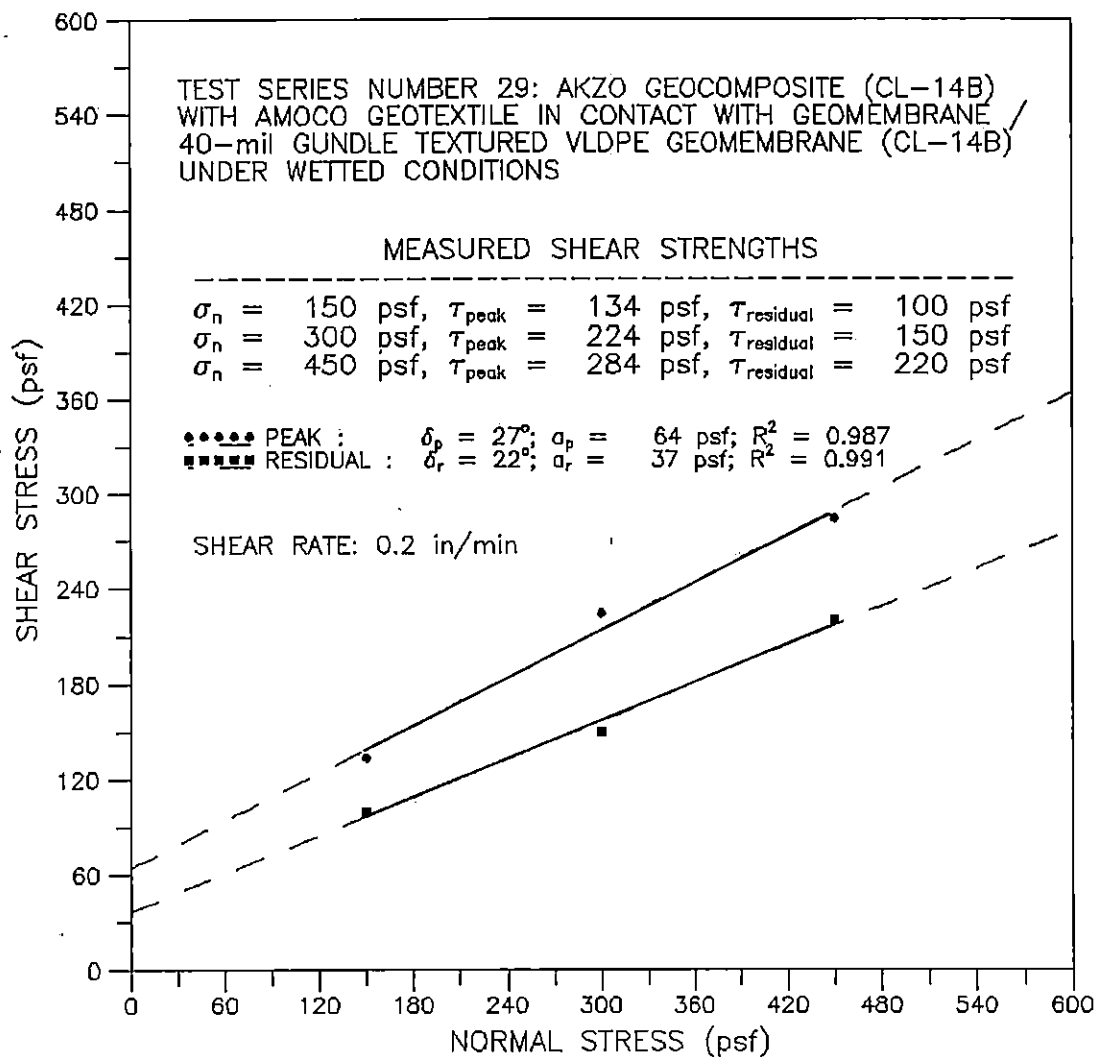
FIGURE NO. C-57

PROJECT NO. GQ3700-03

DOCUMENT NO. SGI96084

FILE NO.

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The reported value of adhesion may not be the true adhesion of the interface, and caution should be exercised in using this adhesion value for applications involving normal stresses outside the range of stresses covered by the test.

DATE TESTED: 16 OCTOBER 1995



GeoSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

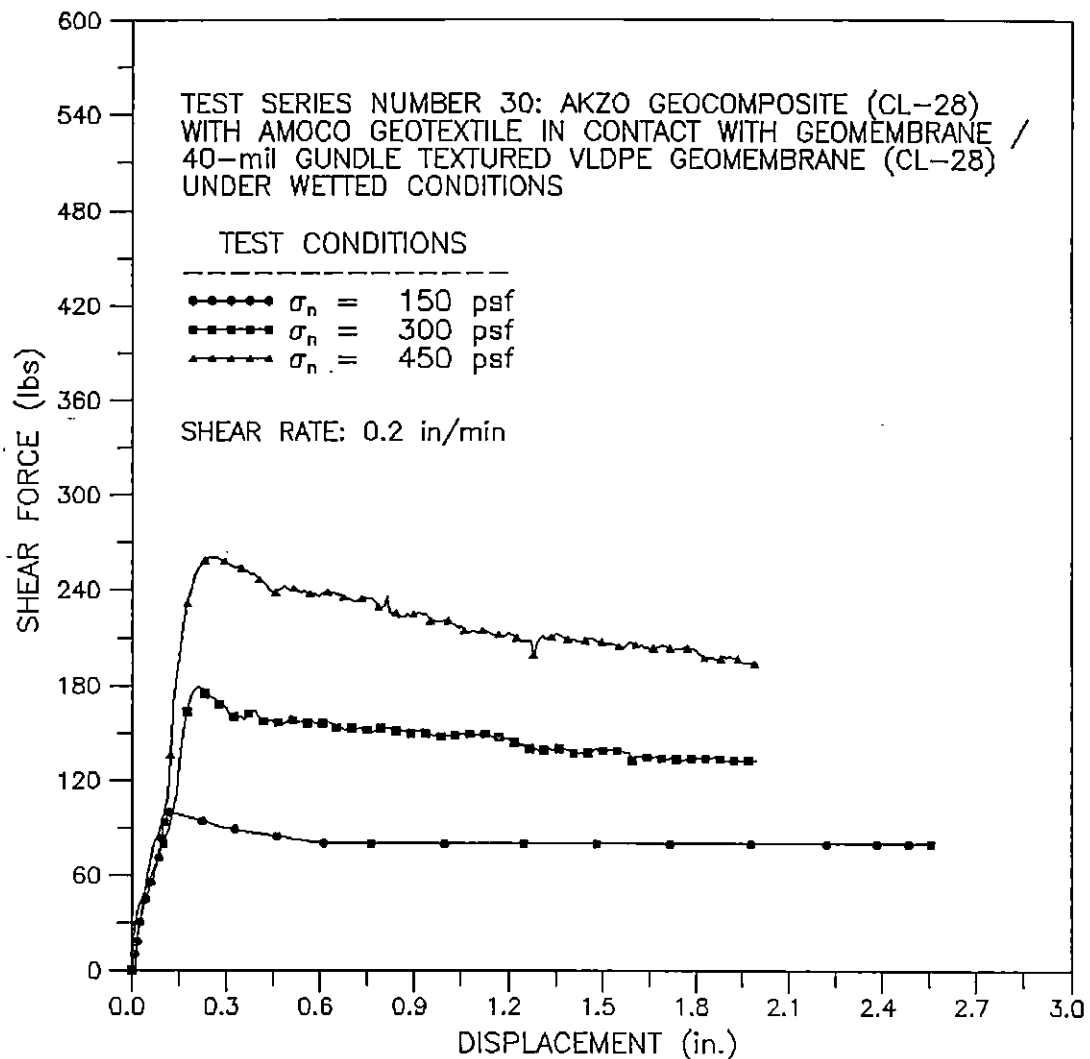
FIGURE NO. C-58

PROJECT NO. GQ3700-03

DOCUMENT NO. SGI96084

FILE NO.

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The shear box size was 12 in. by 12 in. (300 mm by 300 mm), and the contact area remained constant throughout the entire test.

DATE TESTED: 19 OCTOBER 1995



GEO SYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

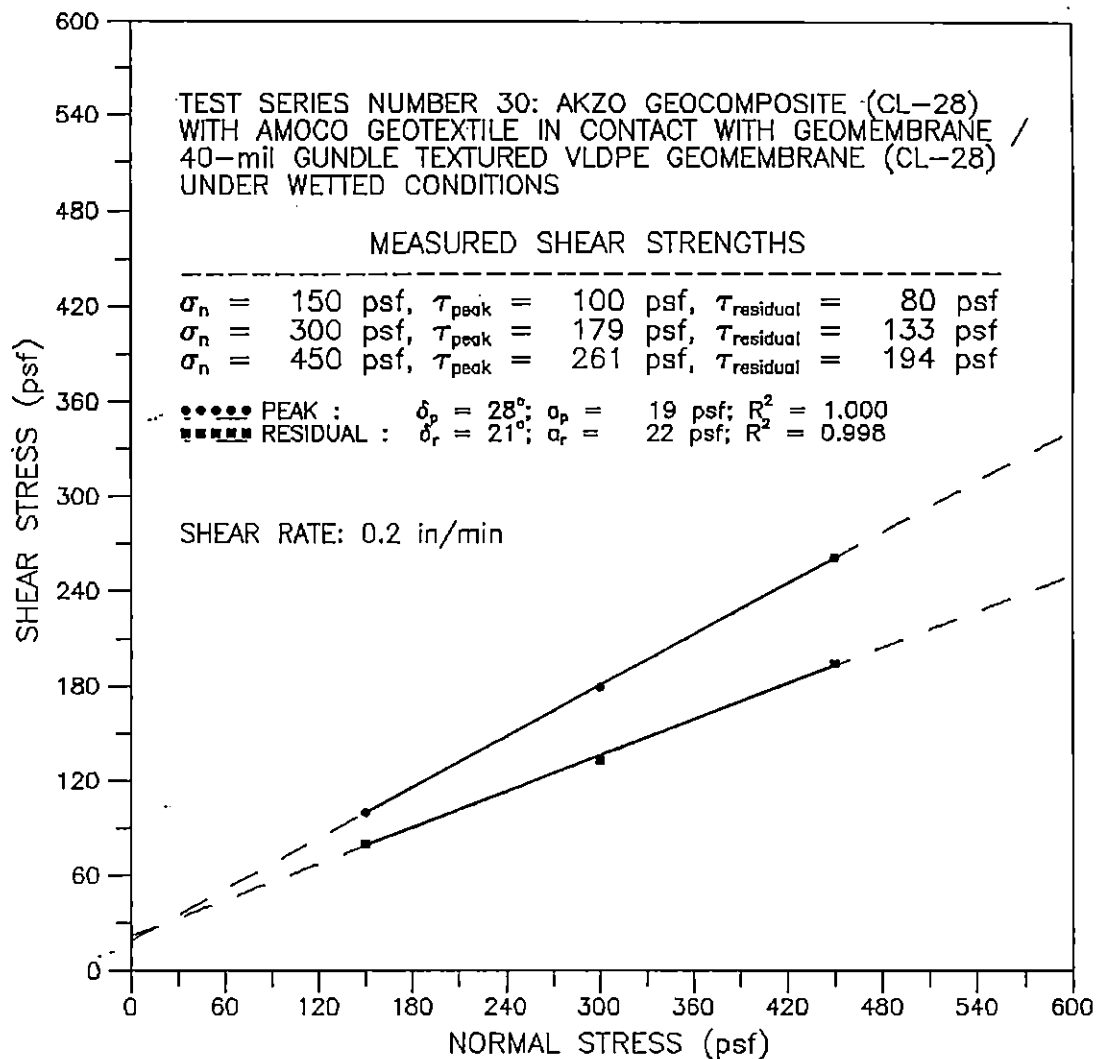
FIGURE NO. C-59

PROJECT NO. GQ3700-03

DOCUMENT NO. SGI96084

FILE NO.

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The reported value of adhesion may not be the true adhesion of the interface, and caution should be exercised in using this adhesion value for applications involving normal stresses outside the range of stresses covered by the test.

DATE TESTED: 19 OCTOBER 1995



GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

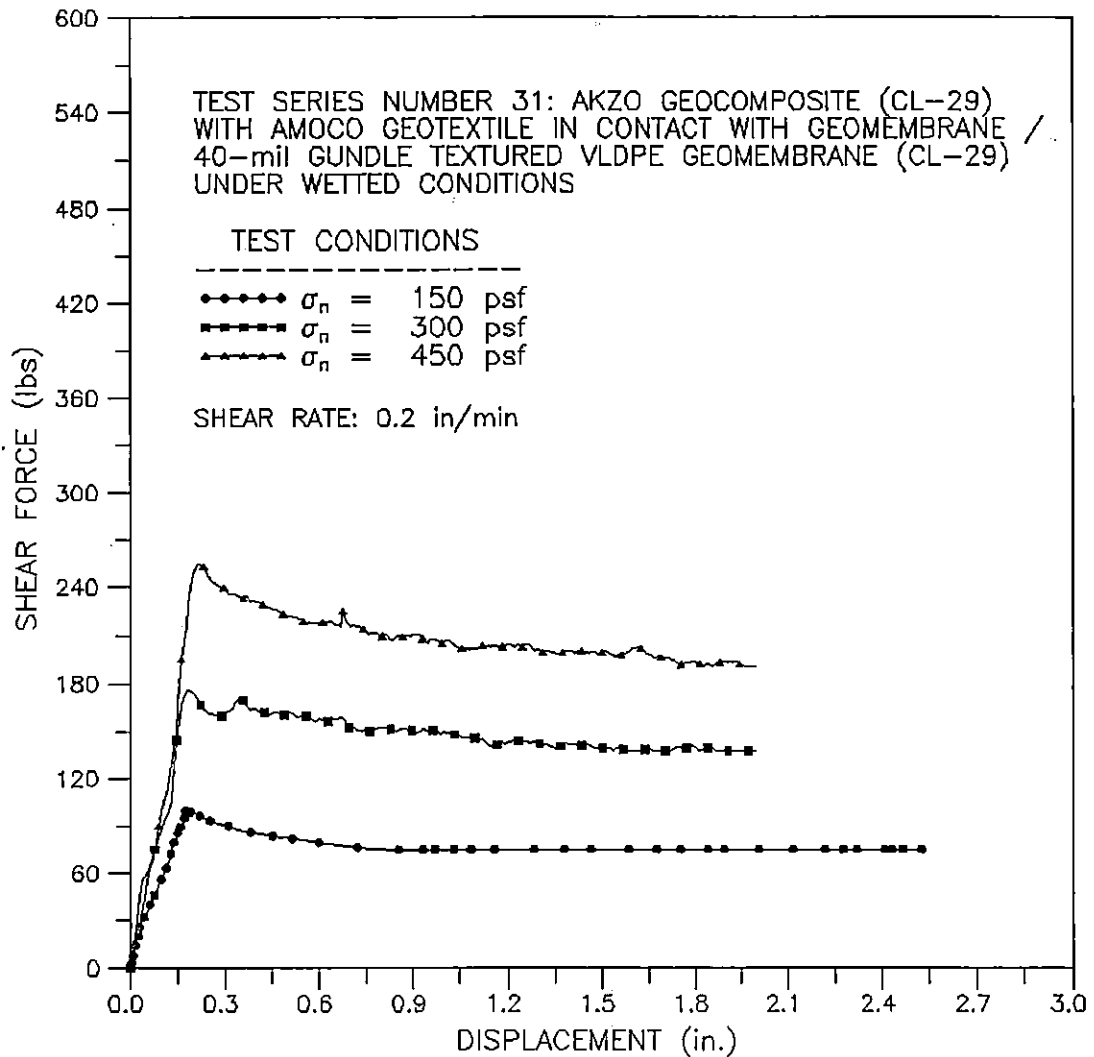
FIGURE NO. C-60

PROJECT NO. GQ3700-03

DOCUMENT NO. SGI96084

FILE NO.

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The shear box size was 12 in. by 12 in. (300 mm by 300 mm), and the contact area remained constant throughout the entire test.

DATE TESTED: 20 OCTOBER 1995



GEO SYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

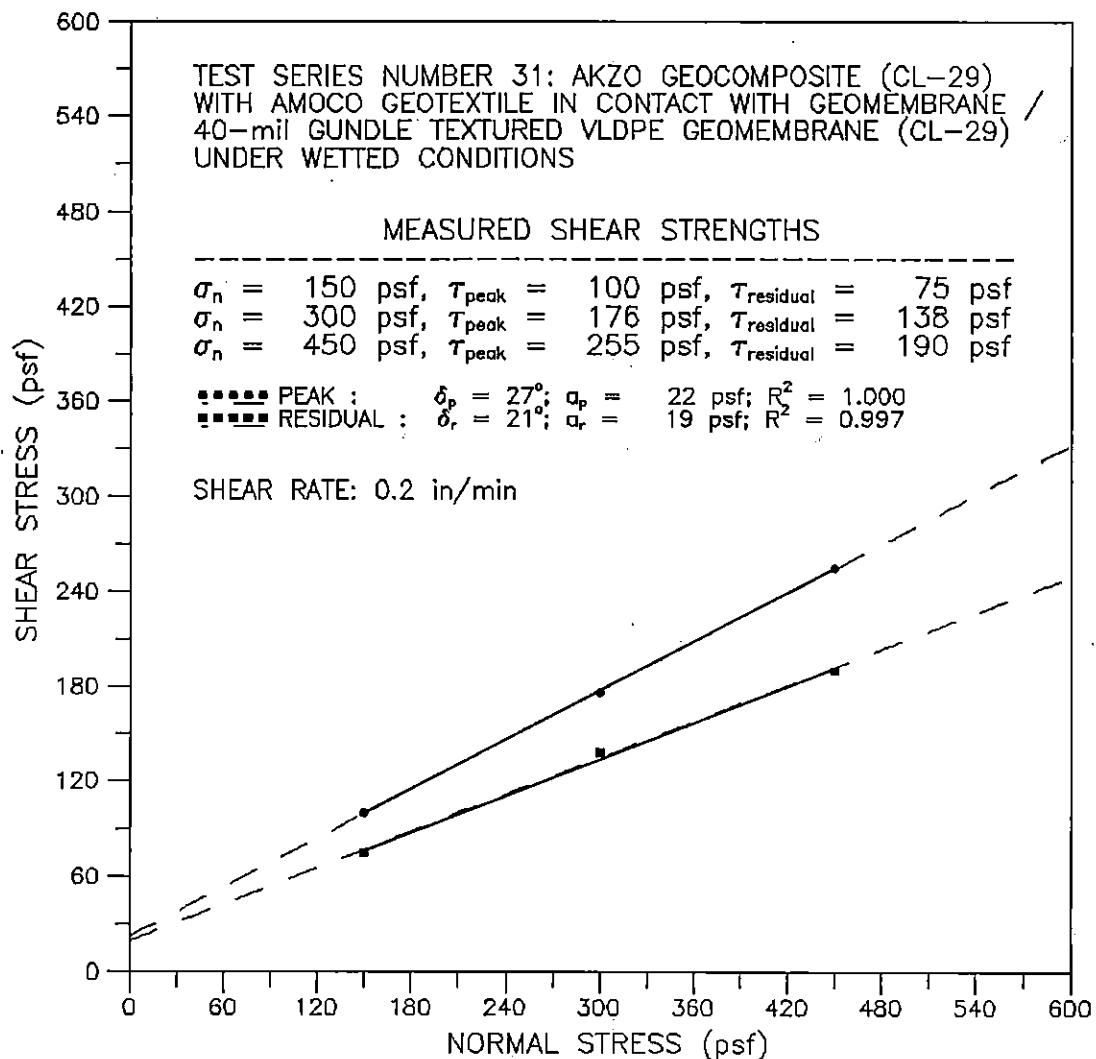
FIGURE NO. C-61

PROJECT NO. GQ3700-03

DOCUMENT NO. SGI96084

FILE NO.

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The reported value of adhesion may not be the true adhesion of the interface, and caution should be exercised in using this adhesion value for applications involving normal stresses outside the range of stresses covered by the test.

DATE TESTED: 20 OCTOBER 1995



GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

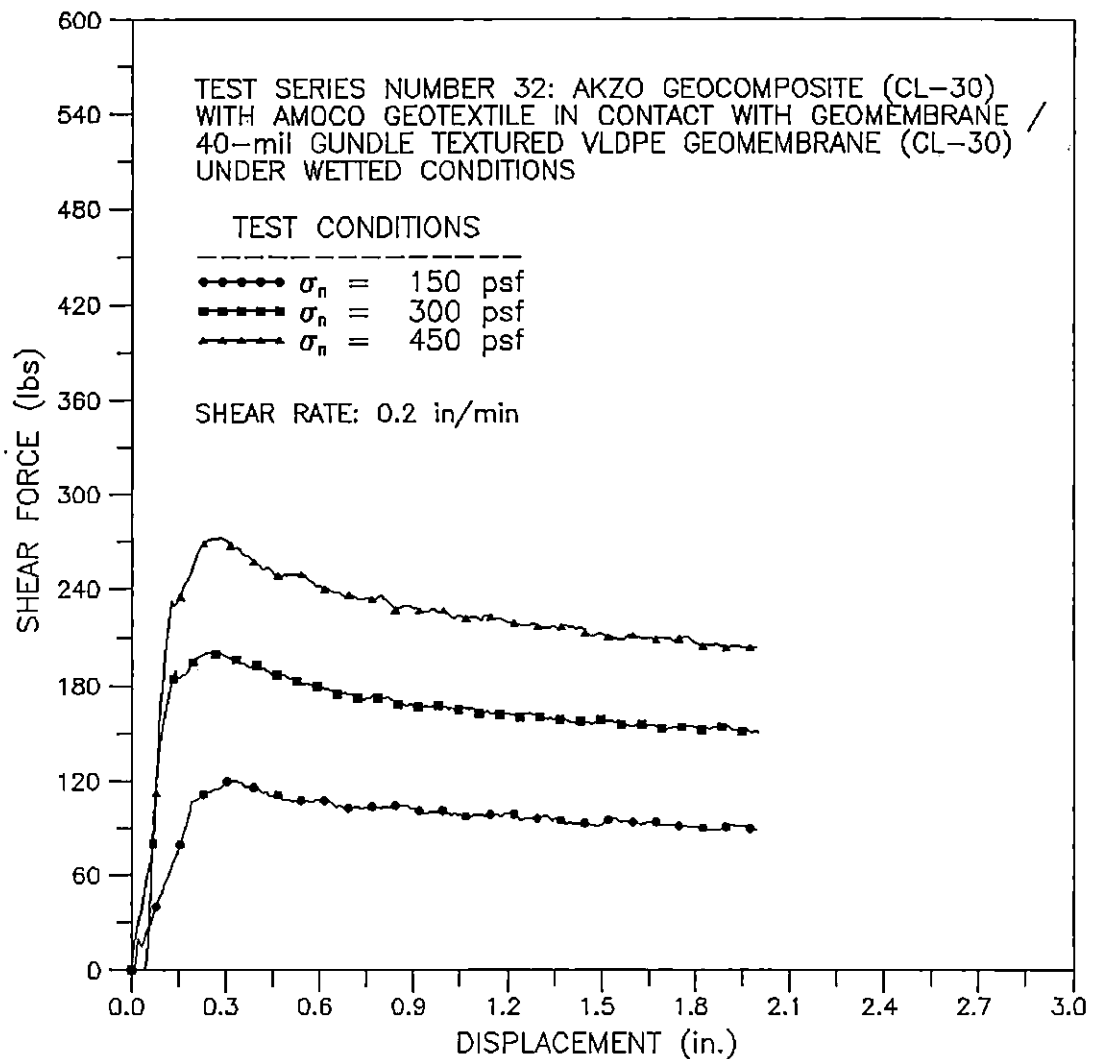
FIGURE NO. C-62

PROJECT NO. GQ3700-03

DOCUMENT NO. SGI96084

FILE NO.

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The shear box size was 12 in. by 12 in. (300 mm by 300 mm), and the contact area remained constant throughout the entire test.

DATE TESTED: 23 OCTOBER 1995



GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

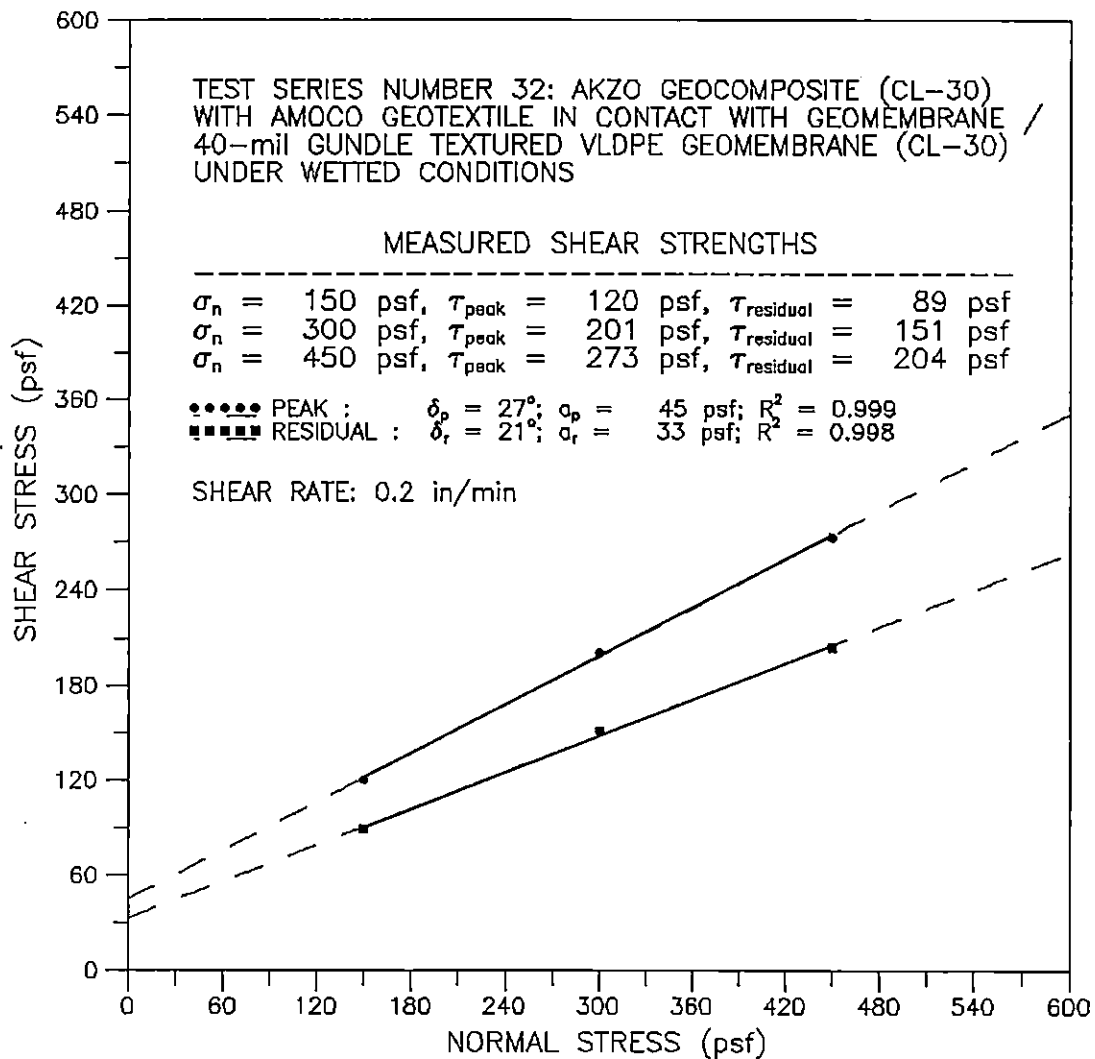
FIGURE NO. C-63

PROJECT NO. GQ3700-03

DOCUMENT NO. SGI96084

FILE NO.

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The reported value of adhesion may not be the true adhesion of the interface, and caution should be exercised in using this adhesion value for applications involving normal stresses outside the range of stresses covered by the test.

DATE TESTED: 23 OCTOBER 1995



GEO SYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

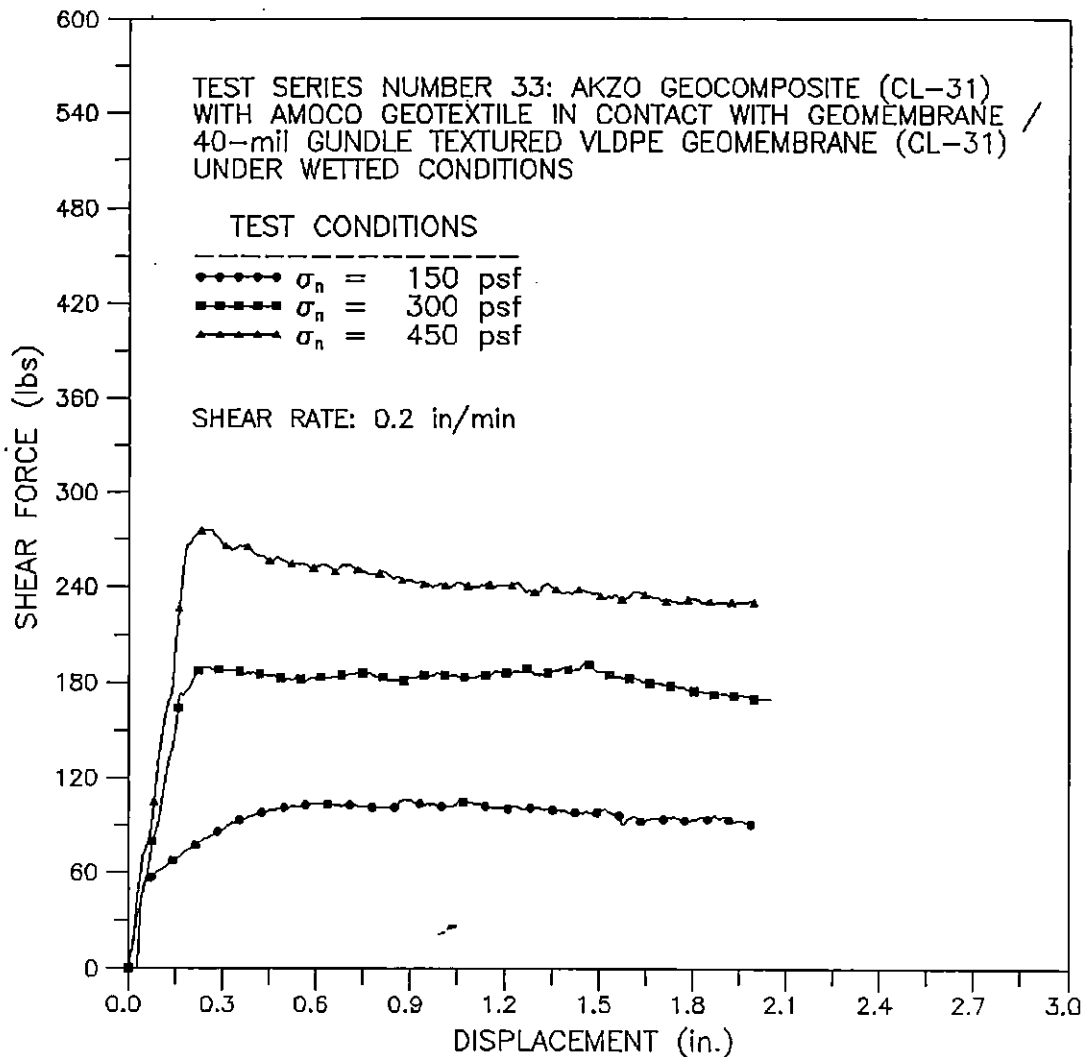
FIGURE NO. C-64

PROJECT NO. GQ3700-03

DOCUMENT NO. SG196084

FILE NO.

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The shear box size was 12 in. by 12 in.(300 mm by 300 mm),
and the contact area remained constant throughout the
entire test.

DATE TESTED: 30 OCTOBER 1995



GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

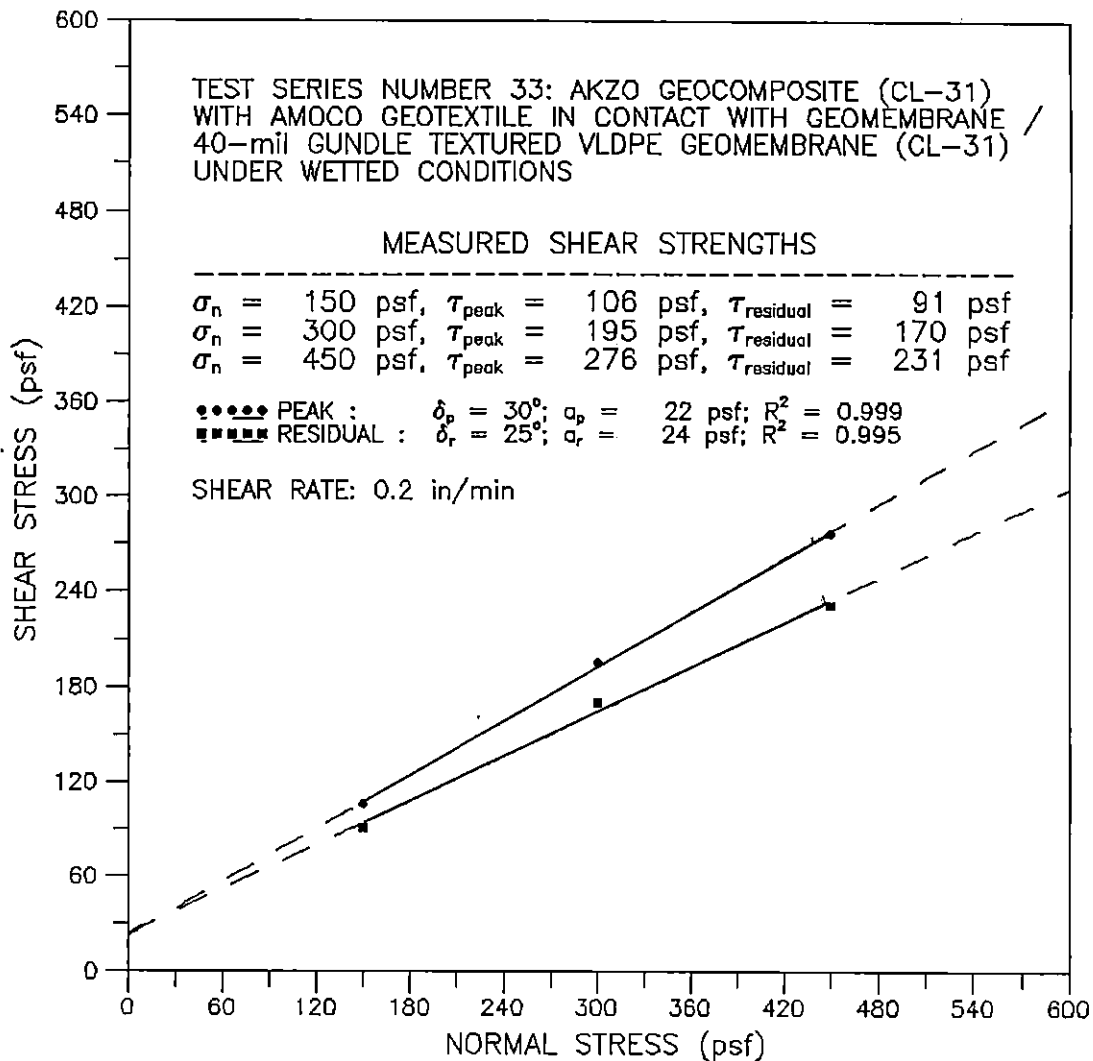
FIGURE NO. C-65

PROJECT NO. GQ3700-03

DOCUMENT NO. SG196084

FILE NO.

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The reported value of adhesion may not be the true adhesion of the interface, and caution should be exercised in using this adhesion value for applications involving normal stresses outside the range of stresses covered by the test.

DATE TESTED: 30 OCTOBER 1995



GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

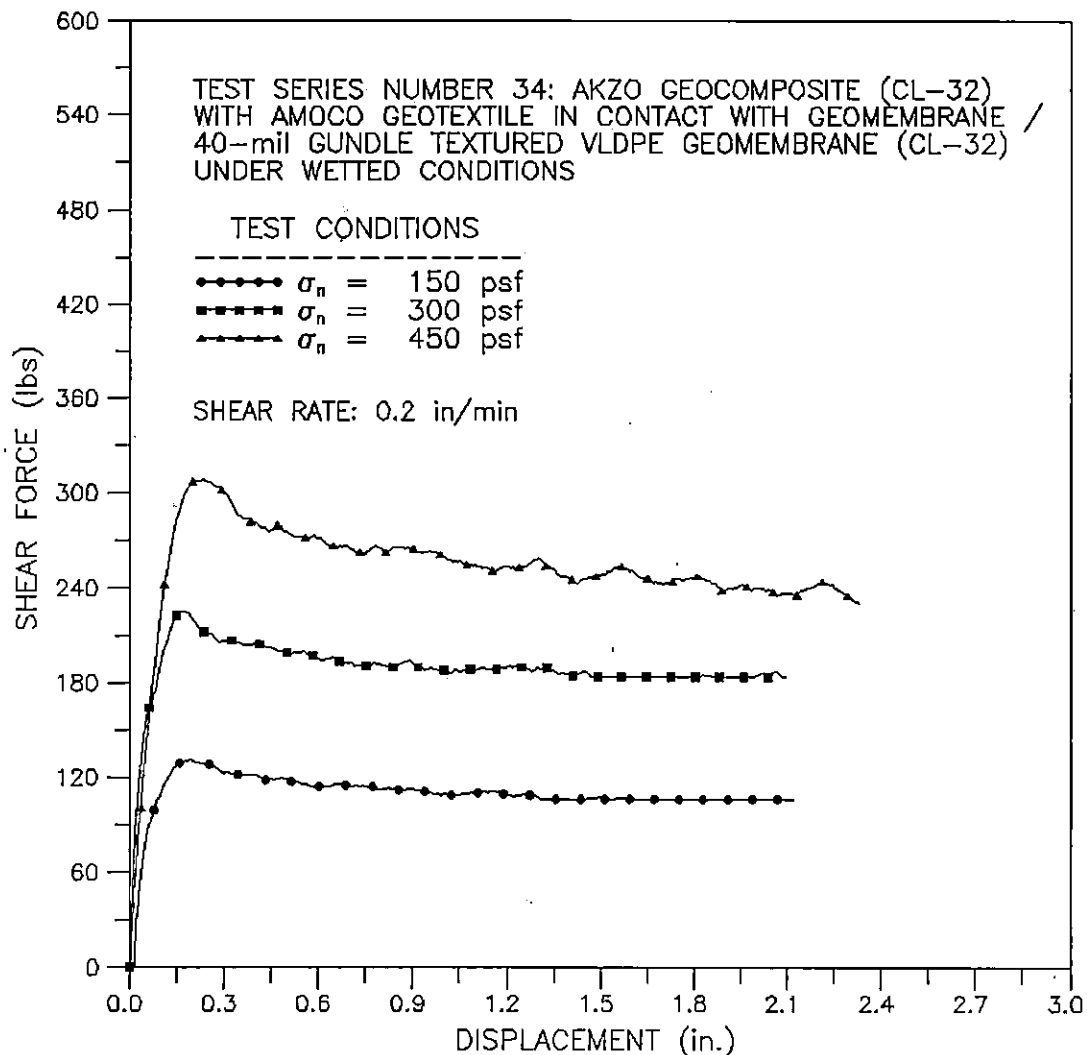
FIGURE NO. C-66

PROJECT NO. GQ3700-03

DOCUMENT NO. SGI96084

FILE NO.

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The shear box size was 12 in. by 12 in. (300 mm by 300 mm), and the contact area remained constant throughout the entire test.

DATE TESTED: 6 NOVEMBER 1995



GeoSyntec Consultants

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

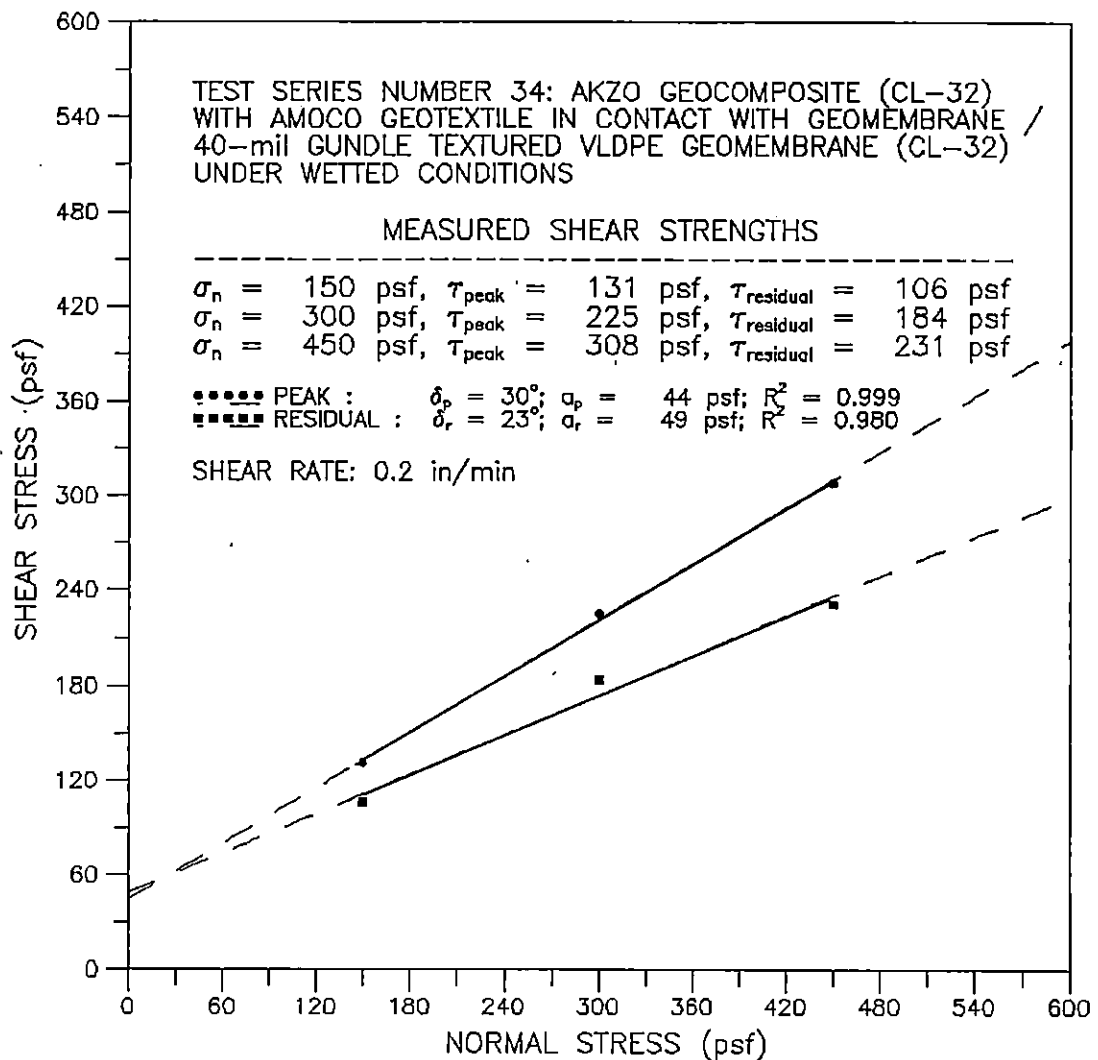
FIGURE NO. C-67

PROJECT NO. GQ3700-03

DOCUMENT NO. SG196084

FILE NO.

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The reported value of adhesion may not be the true adhesion of the interface, and caution should be exercised in using this adhesion value for applications involving normal stresses outside the range of stresses covered by the test.

DATE TESTED: 6 NOVEMBER 1995



GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

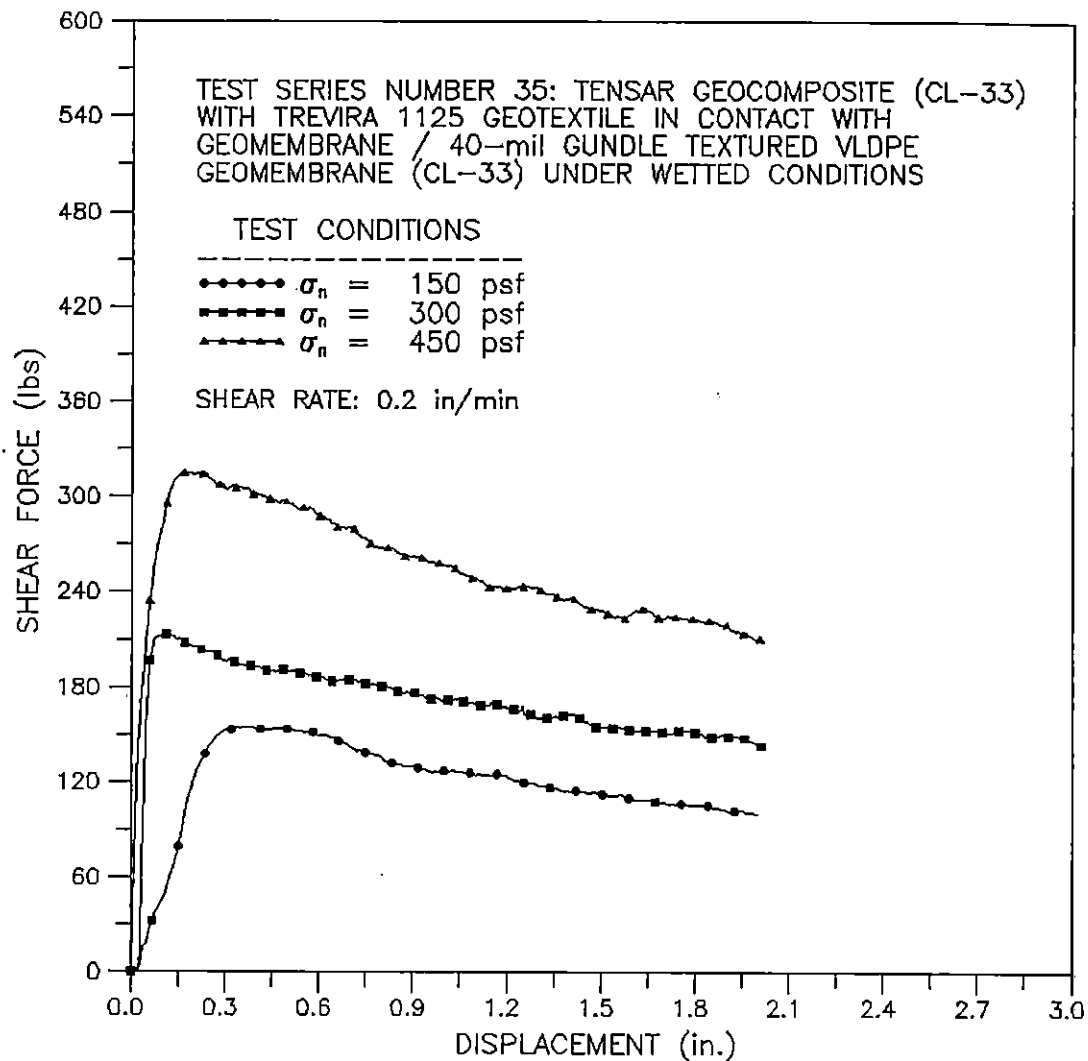
FIGURE NO. C-68

PROJECT NO. GQ3700-03

DOCUMENT NO. SG196084

FILE NO.

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The shear box size was 12 in. by 12 in. (300 mm by 300 mm), and the contact area remained constant throughout the entire test.

DATE TESTED: 13 NOVEMBER 1995



GEO SYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

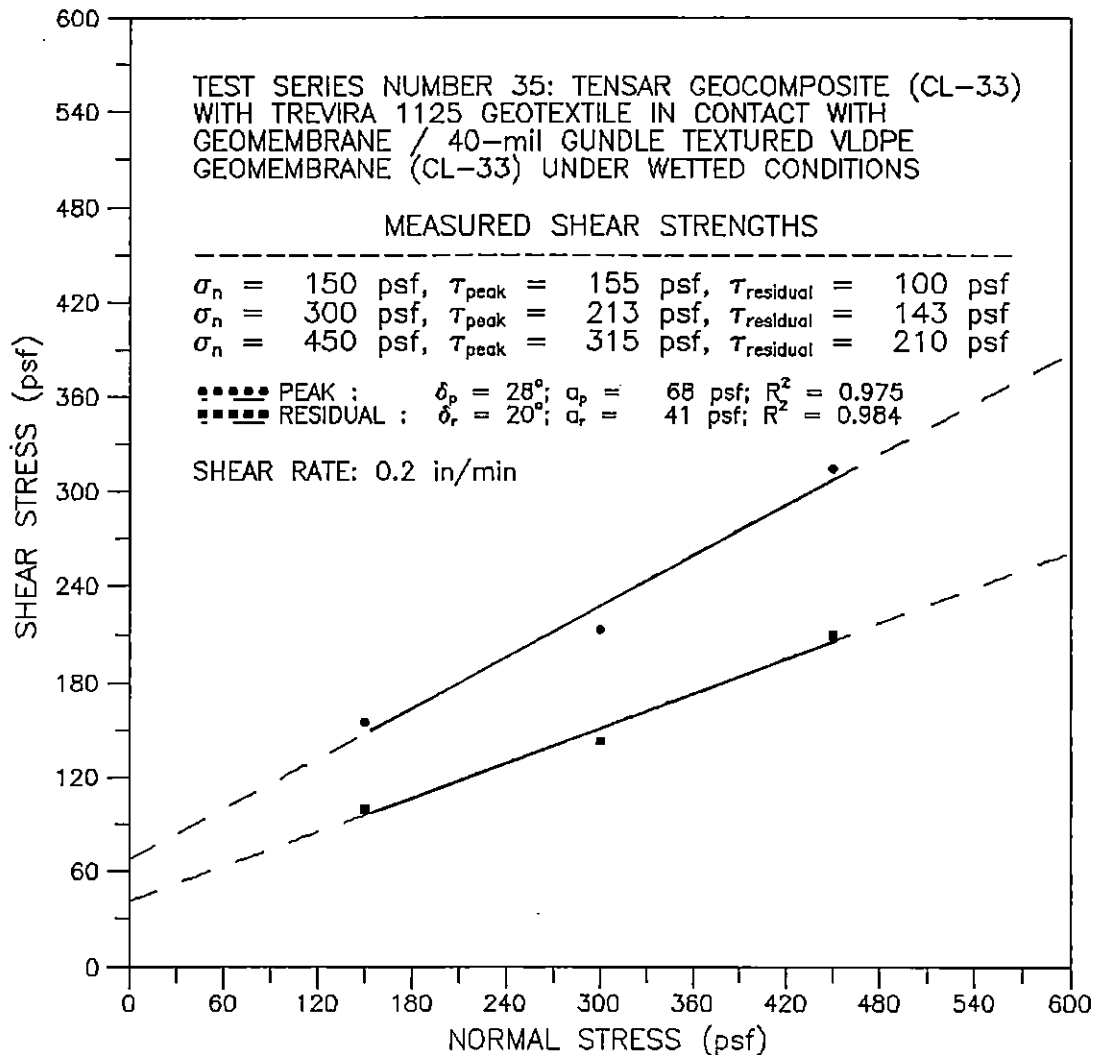
FIGURE NO. C-69

PROJECT NO. GQ3700-03

DOCUMENT NO. SGI96084

FILE NO.

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The reported value of adhesion may not be the true adhesion of the interface, and caution should be exercised in using this adhesion value for applications involving normal stresses outside the range of stresses covered by the test.

DATE TESTED: 13 NOVEMBER 1995



GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

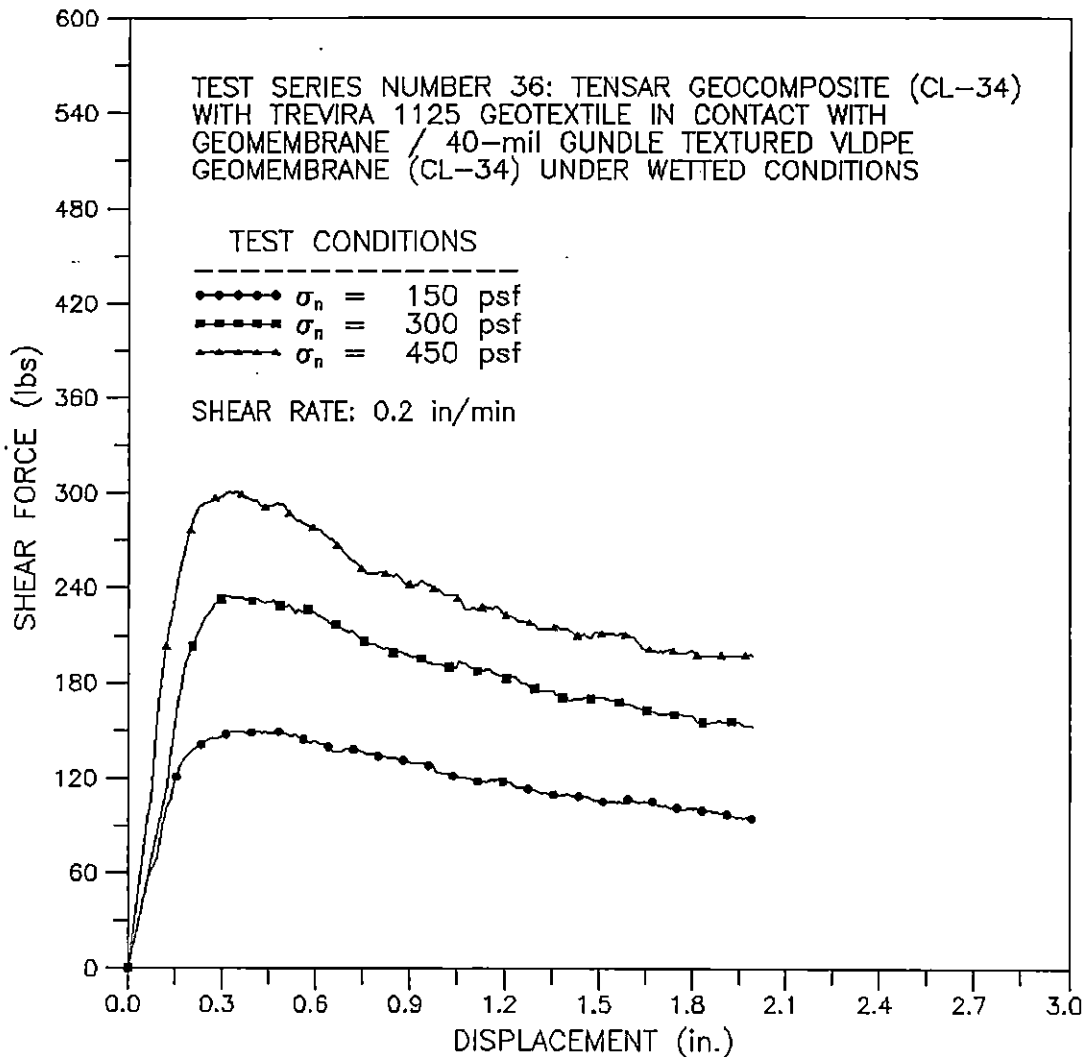
FIGURE NO. C-70

PROJECT NO. GQ3700-03

DOCUMENT NO. SGI96084

FILE NO.

TOWN OF HUNTINGTON / EAST-NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The shear box size was 12 in. by 12 in. (300 mm by 300 mm), and the contact area remained constant throughout the entire test.

DATE TESTED: 14 NOVEMBER 1995



GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

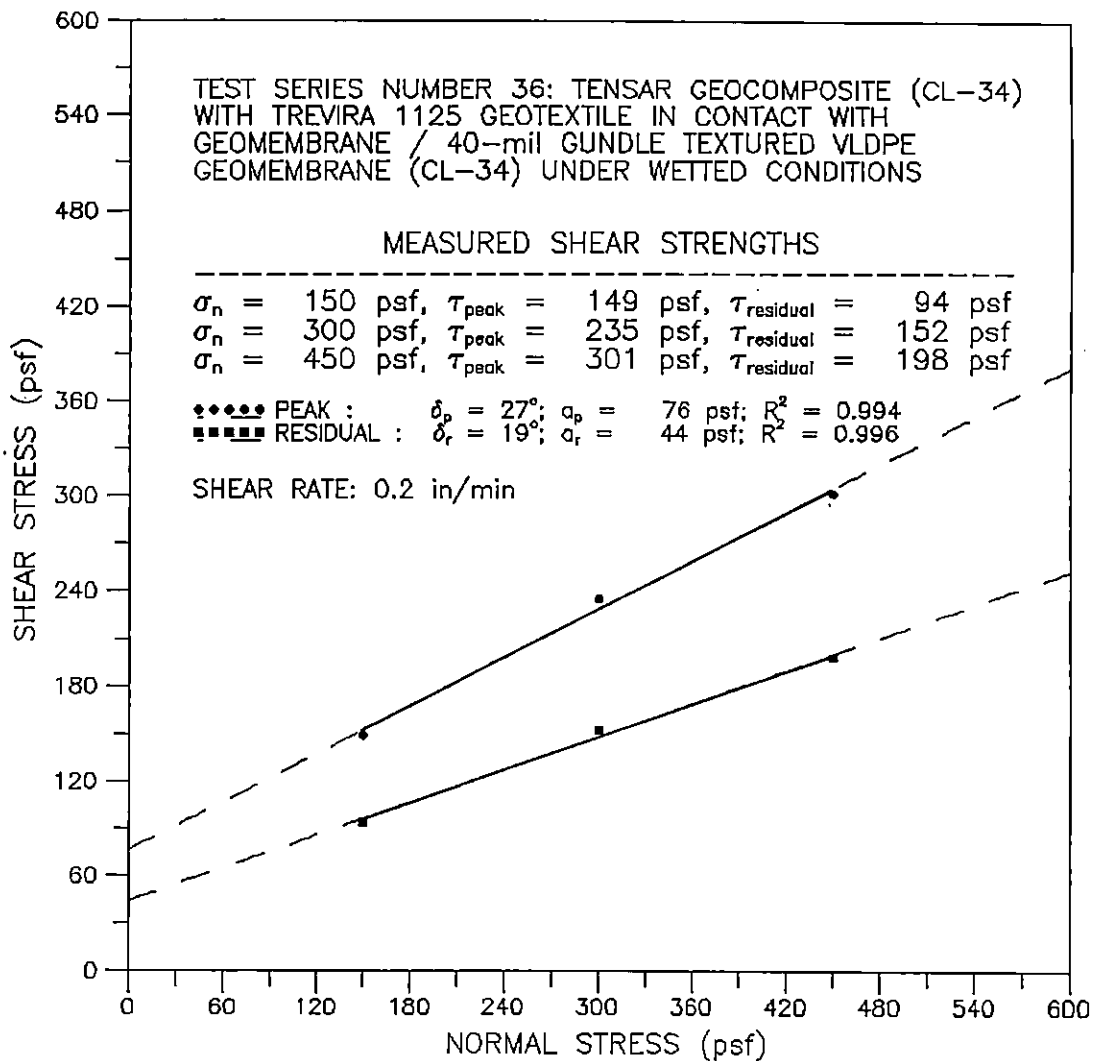
FIGURE NO. C-71

PROJECT NO. GQ3700-03

DOCUMENT NO. SGI96084

FILE NO.

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The reported value of adhesion may not be the true adhesion of the interface, and caution should be exercised in using this adhesion value for applications involving normal stresses outside the range of stresses covered by the test.

DATE TESTED: 14 NOVEMBER 1995



GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

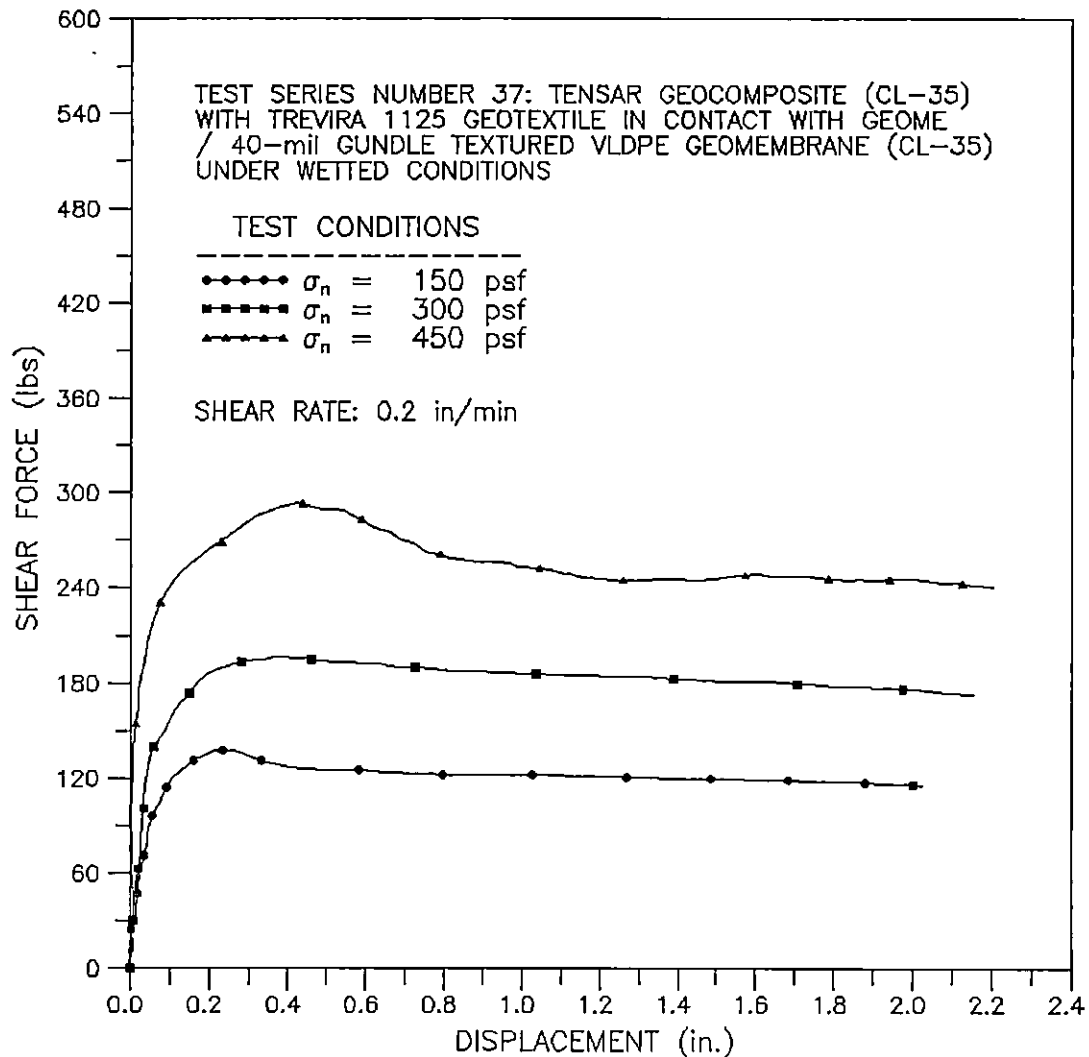
FIGURE NO. C-72

PROJECT NO. GQ3700-03

DOCUMENT NO. SGI96084

FILE NO.

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL DIRECT SHEAR TESTING



NOTE: The shear box size was 12 in. by 12 in. (300 mm by 300 mm), and the contact area remained constant throughout the entire test.

DATE TESTED: 24 APRIL 1995



GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

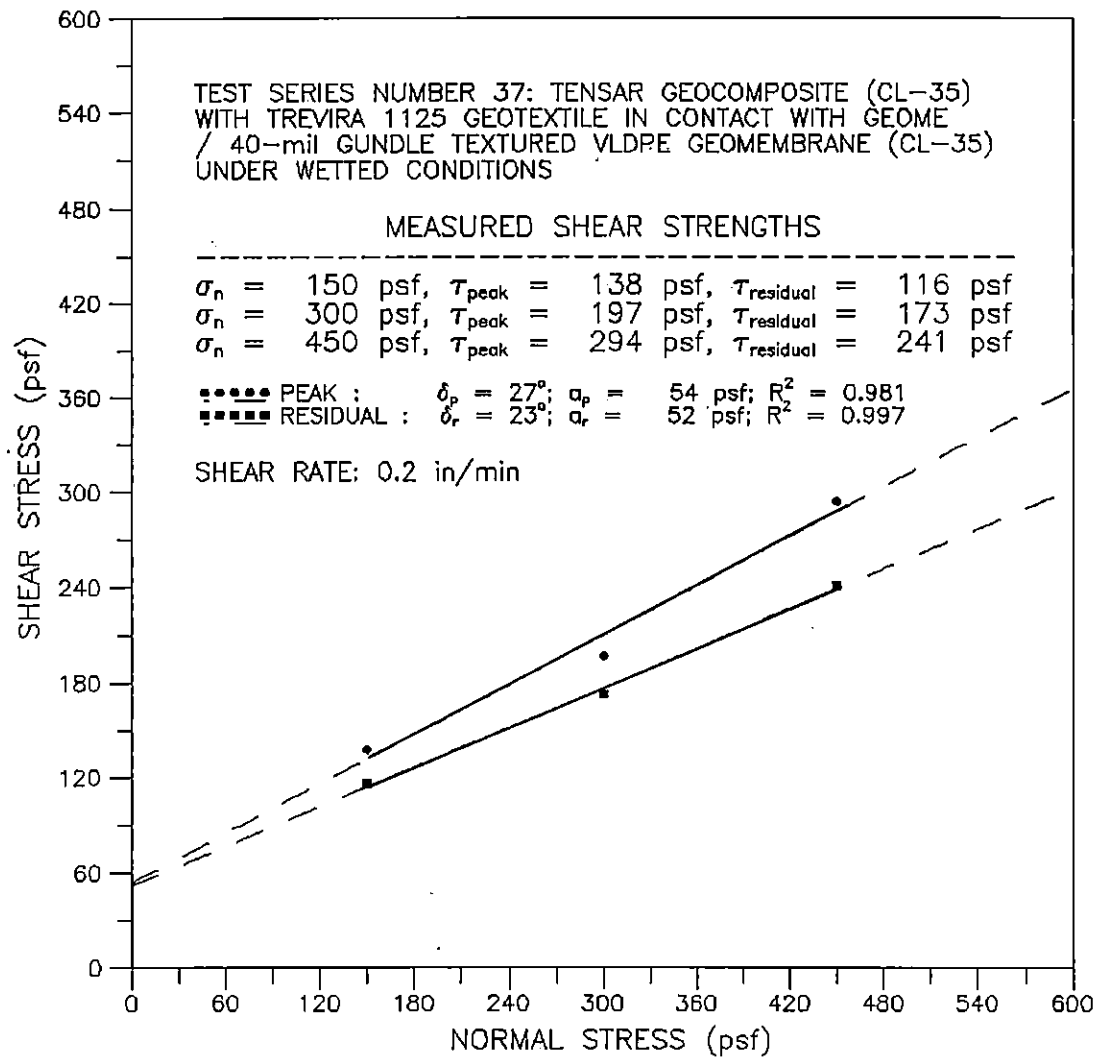
FIGURE NO. C-73

PROJECT NO. GQ3700-03

DOCUMENT NO. SG196084

FILE NO.

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL DIRECT SHEAR TESTING



NOTE: The reported value of adhesion may not be the true adhesion of the interface, and caution should be exercised in using this adhesion value for applications involving normal stresses outside the range of stresses covered by the test.

DATE TESTED: 24 APRIL 1995



GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

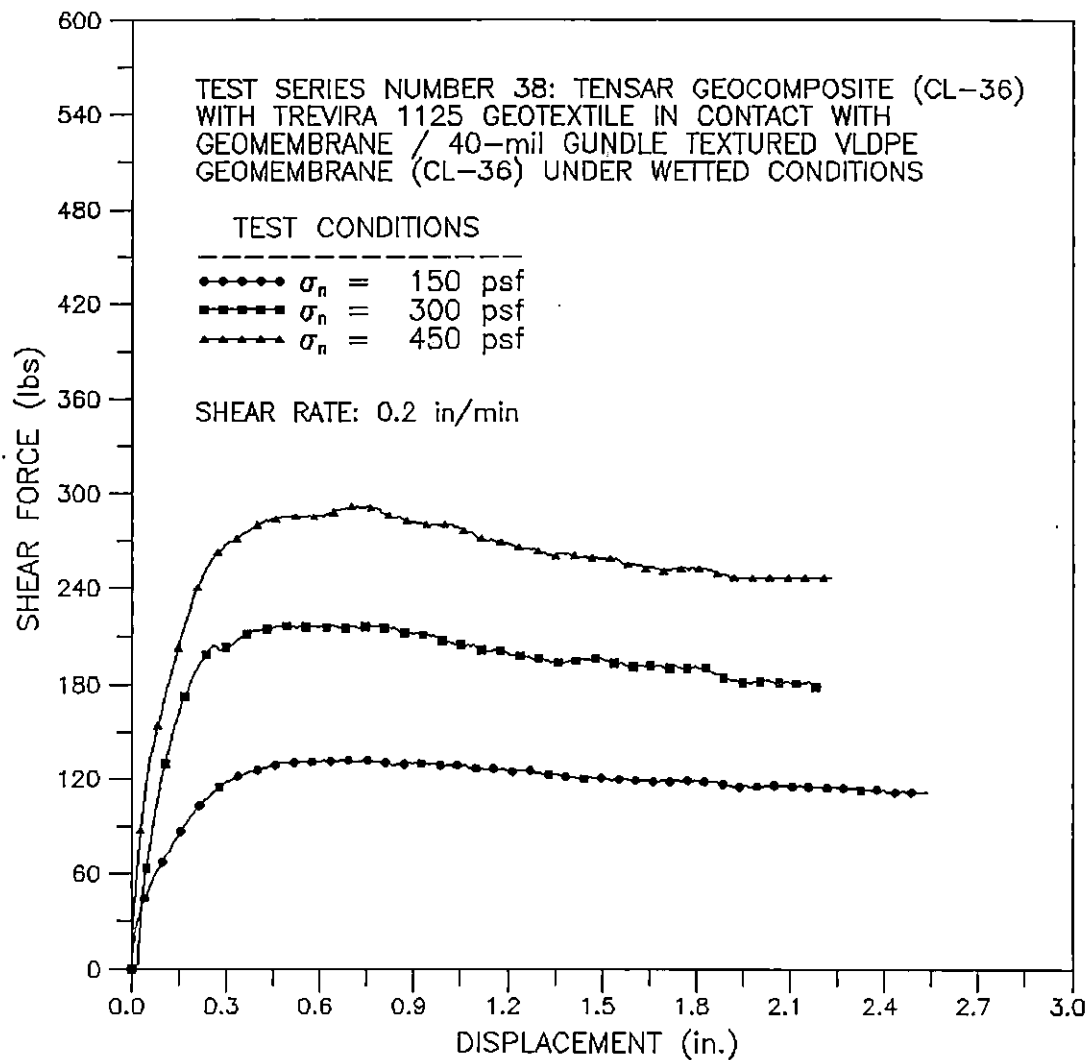
FIGURE NO. C-74

PROJECT NO. GQ3700-03

DOCUMENT NO. SGI96084

FILE NO.

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The shear box size was 12 in. by 12 in. (300 mm by 300 mm), and the contact area remained constant throughout the entire test.

DATE TESTED: 2 MAY 1996



GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

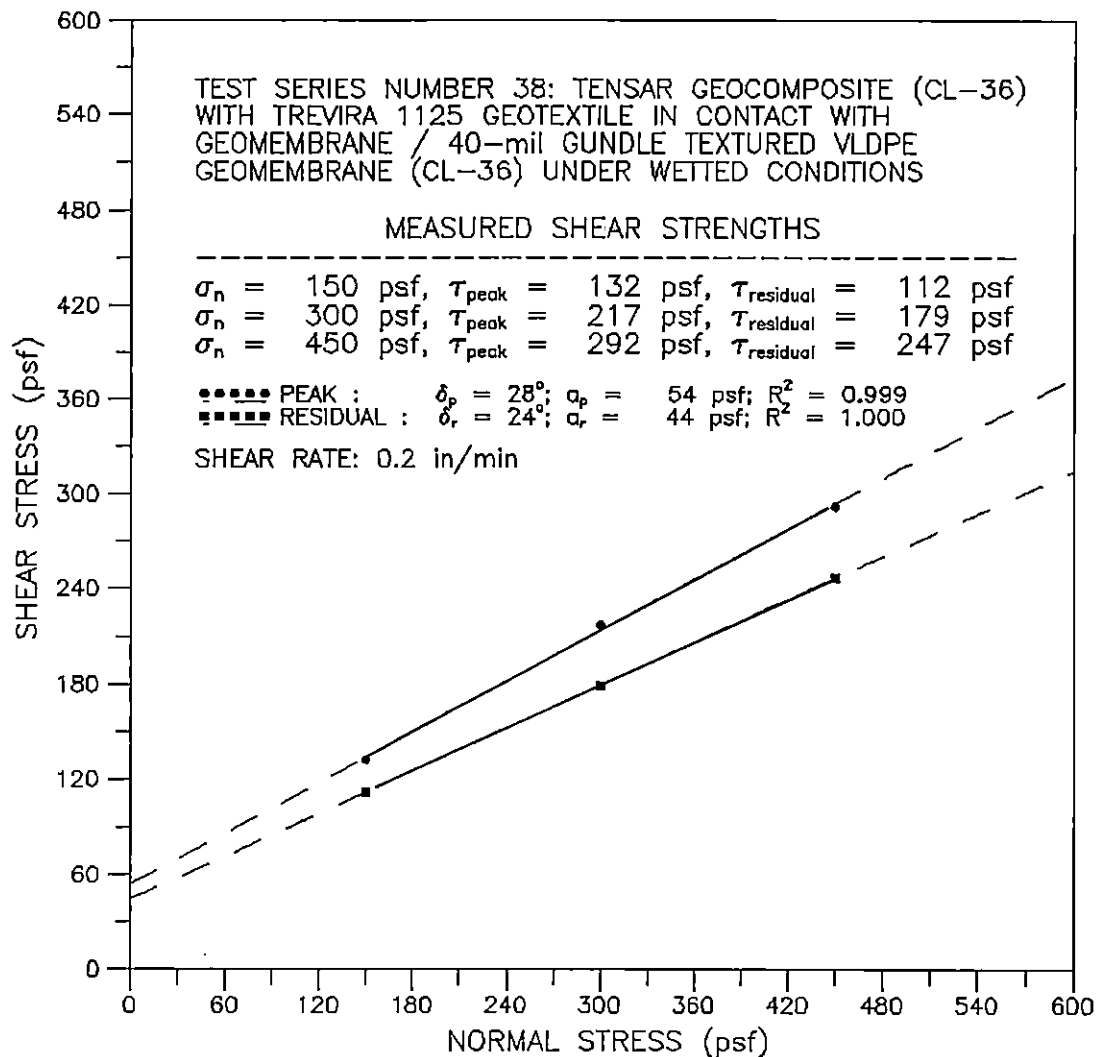
FIGURE NO. C-75

PROJECT NO. GQ3700-03

DOCUMENT NO. SGI96084

FILE NO.

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The reported value of adhesion may not be the true adhesion of the interface, and caution should be exercised in using this adhesion value for applications involving normal stresses outside the range of stresses covered by the test.

DATE TESTED: 2 MAY 1996

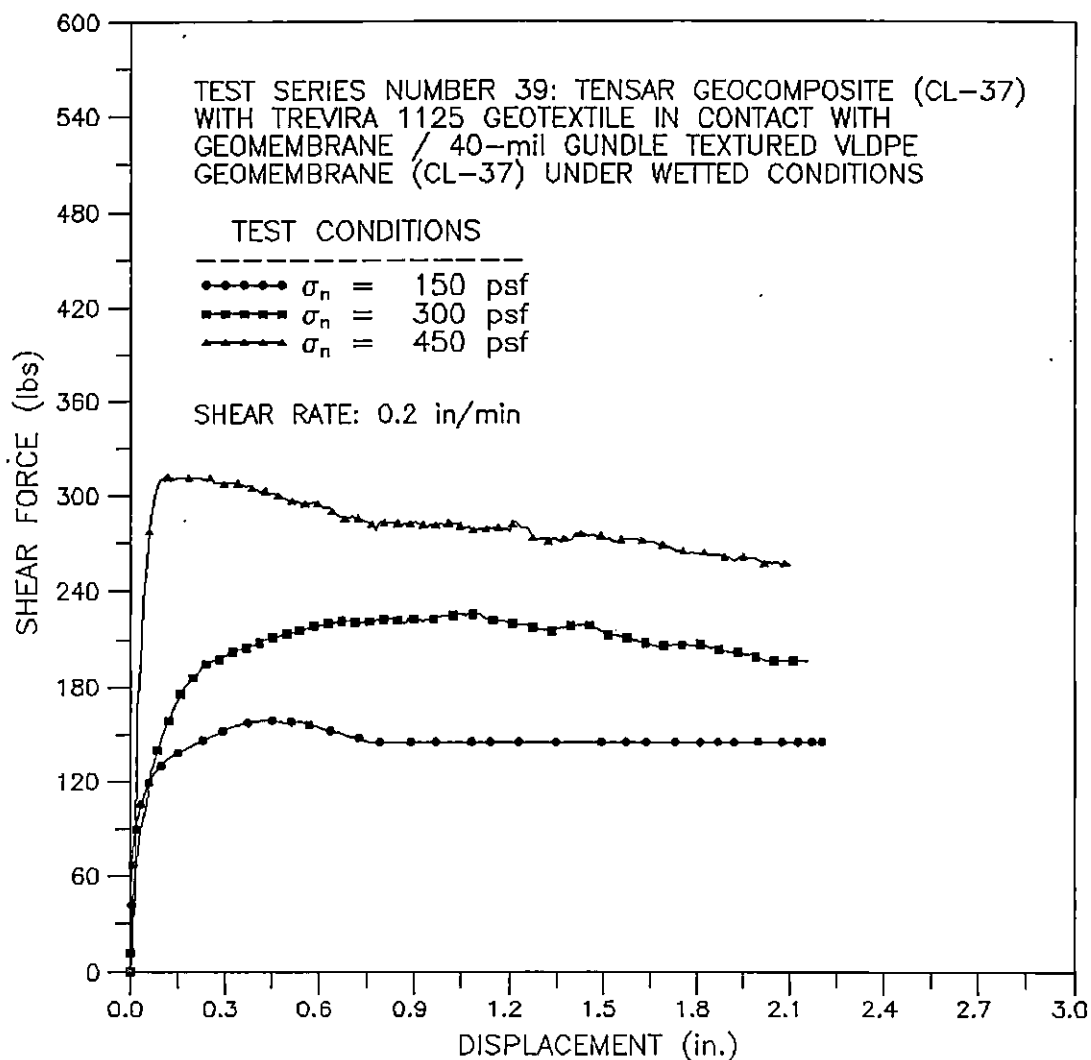


GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.	C-76
PROJECT NO.	GQ3700-03
DOCUMENT NO.	SGI96084
FILE NO.	

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The shear box size was 12 in. by 12 in. (300 mm by 300 mm), and the contact area remained constant throughout the entire test.

DATE TESTED: 8 MAY 1996

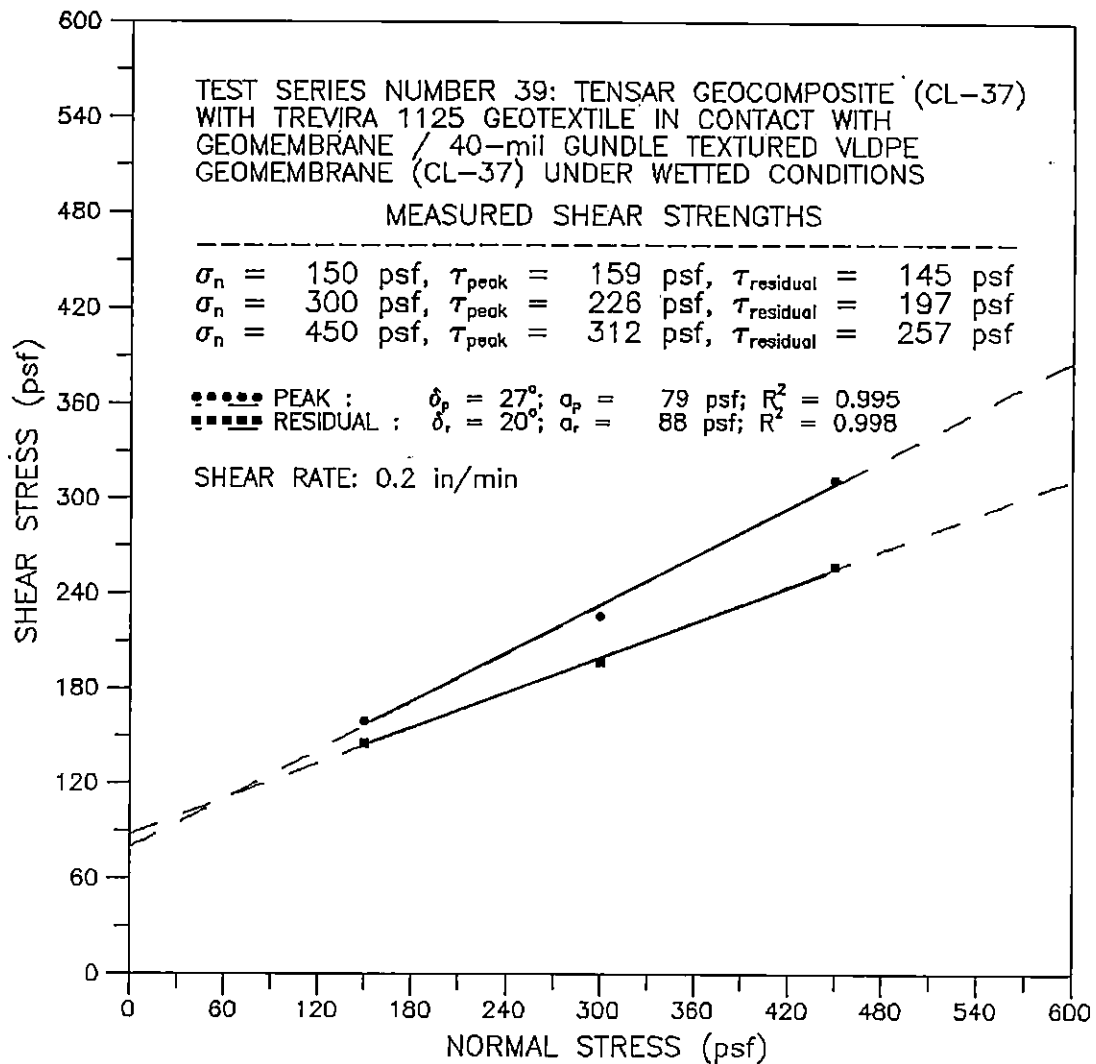


GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.	C-77
PROJECT NO.	GQ3700-03
DOCUMENT NO.	SGI96084
FILE NO.	

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The reported value of adhesion may not be the true adhesion of the interface, and caution should be exercised in using this adhesion value for applications involving normal stresses outside the range of stresses covered by the test.

DATE TESTED: 8 MAY 1996



GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

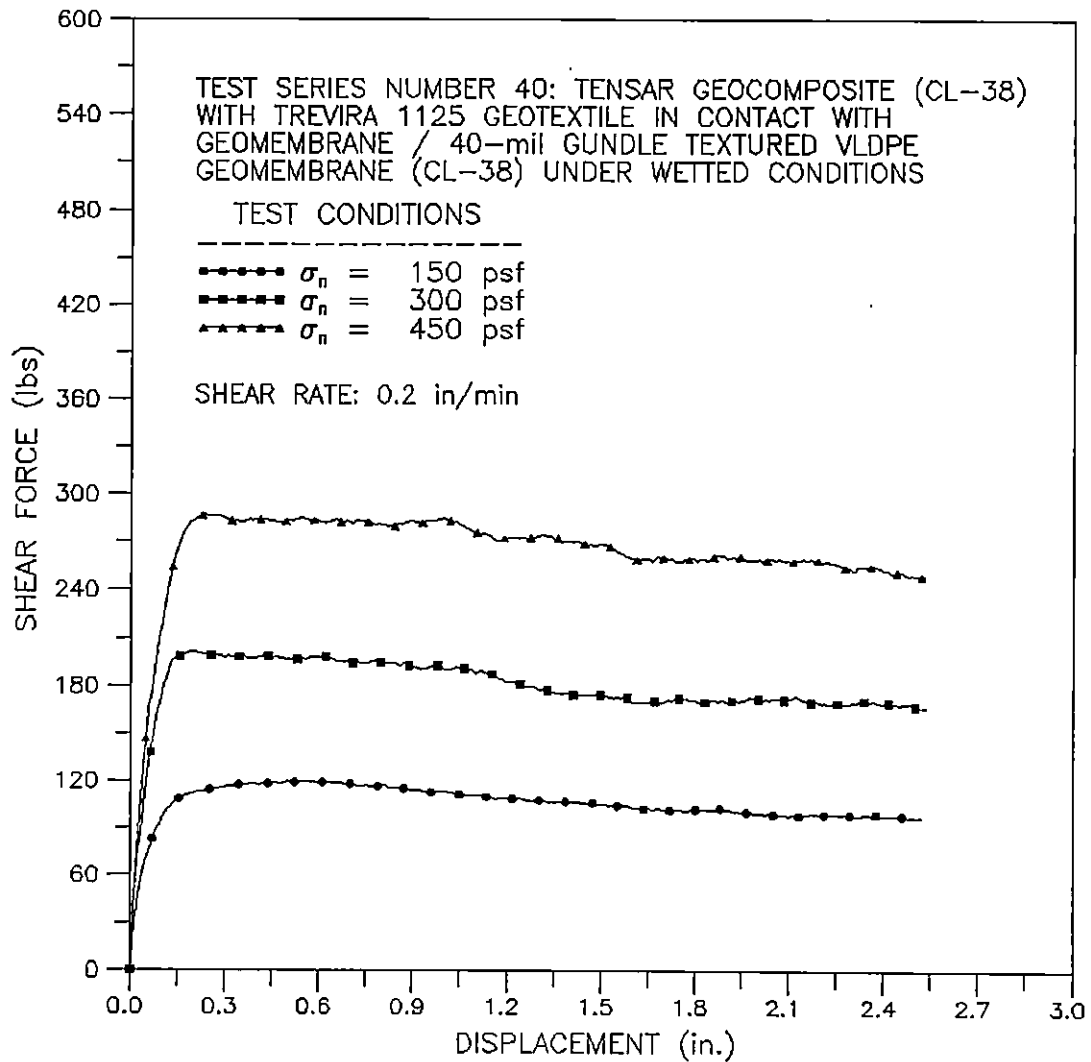
FIGURE NO. C-78

PROJECT NO. GQ3700-03

DOCUMENT NO. SG196084

FILE NO.

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL
INTERFACE DIRECT SHEAR TESTING



NOTE: The shear box size was 12 in. by 12 in. (300 mm by 300 mm),
and the contact area remained constant throughout the
entire test.

DATE TESTED: 30 APRIL 1996

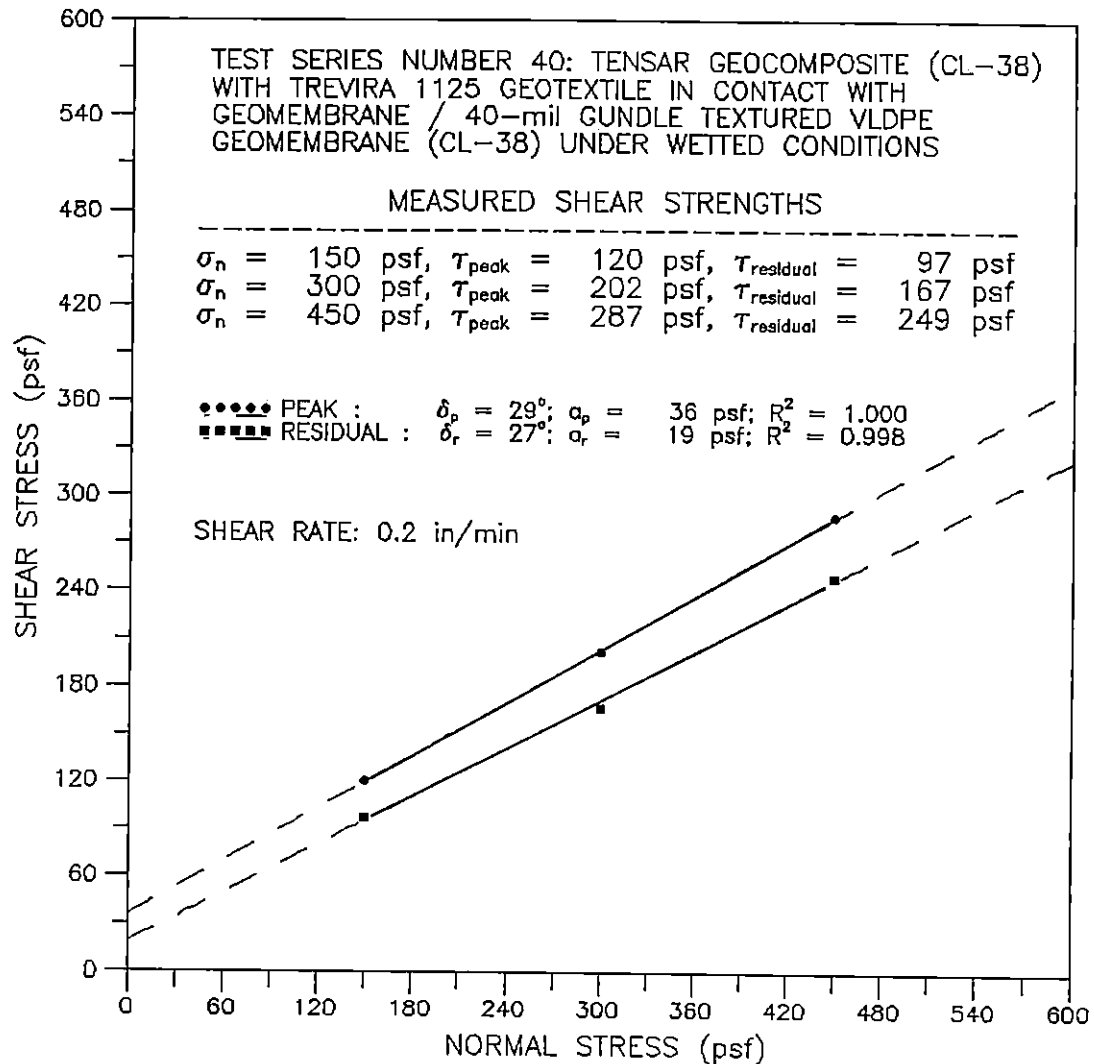


GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.	C-79
PROJECT NO.	GQ3700-03
DOCUMENT NO.	SGI96084
FILE NO.	

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The reported value of adhesion may not be the true adhesion of the interface, and caution should be exercised in using this adhesion value for applications involving normal stresses outside the range of stresses covered by the test.

DATE TESTED: 30 APRIL 1996



GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.	C-80
PROJECT NO.	GQ3700-03
DOCUMENT NO.	SGI96084
FILE NO.	

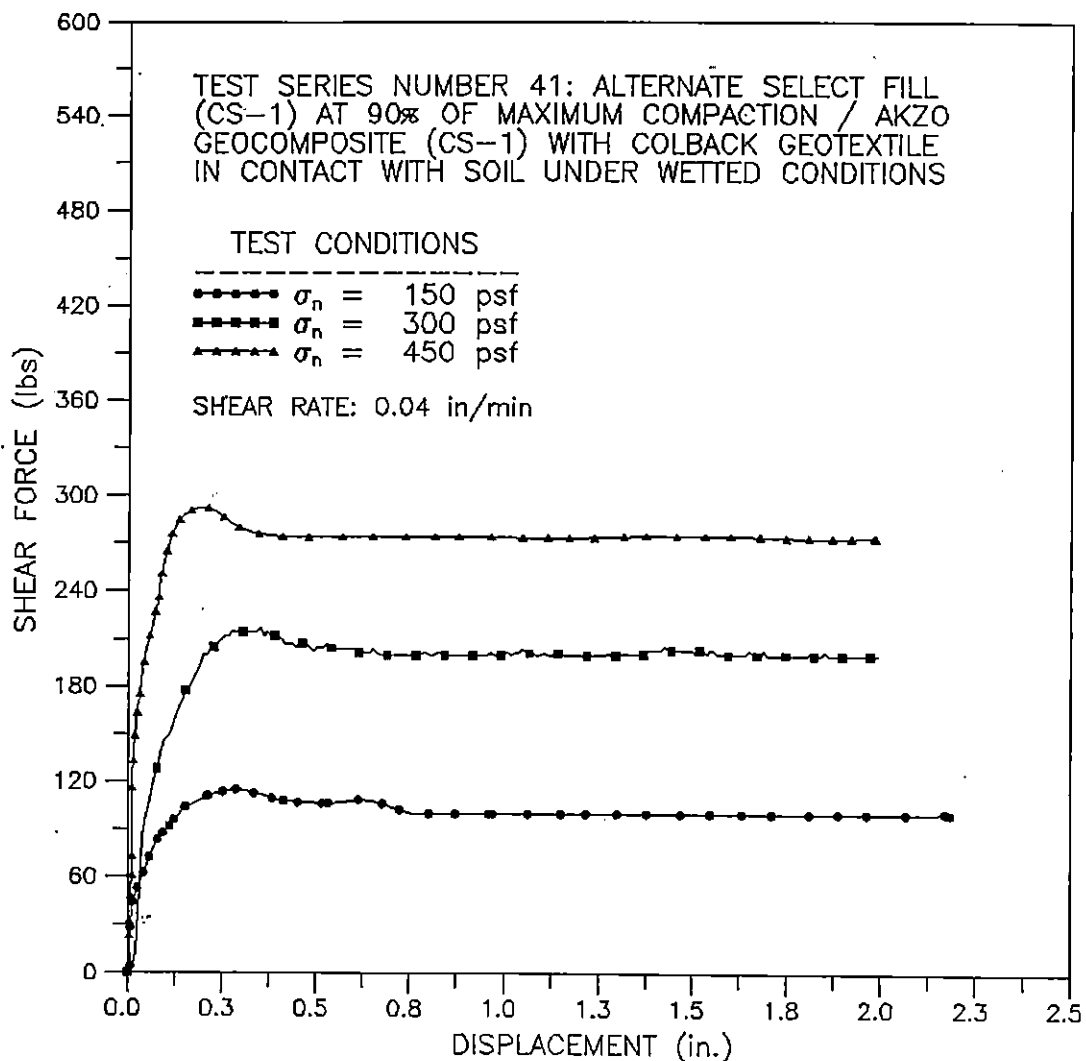
APPENDIX D

TEST RESULTS

SOIL-GEOCOMPOSITE

INTERFACE DIRECT SHEAR TESTS

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The shear box size was 12 in. by 12 in. (300 mm by 300 mm), and the contact area remained constant throughout the entire test.

DATE TESTED: 14 JULY 1995

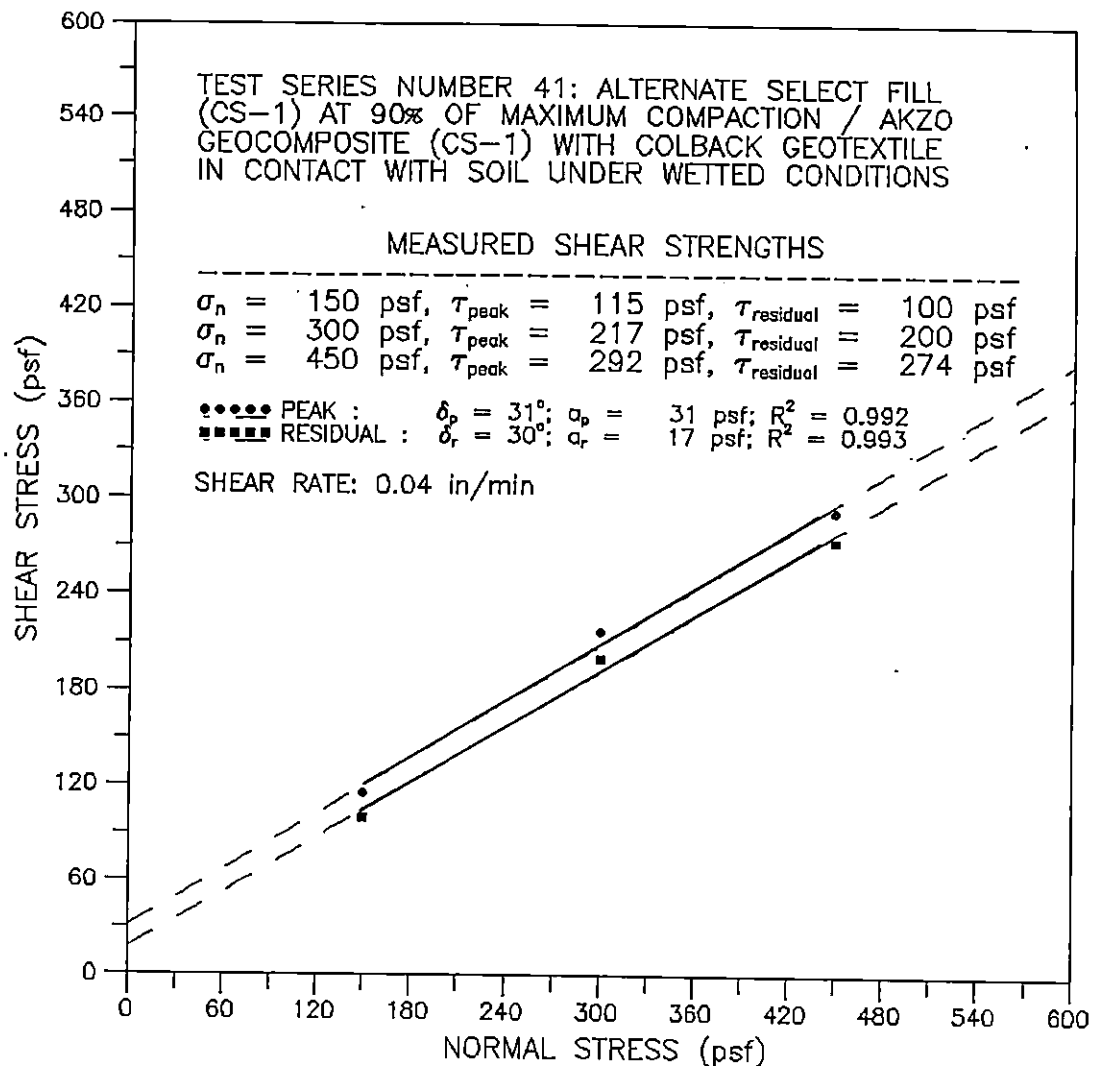


GEO SYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.	D-1
PROJECT NO.	GQ3700-03
DOCUMENT NO.	SGI96084
FILE NO.	

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL
INTERFACE DIRECT SHEAR TESTING



NOTE: The reported value of adhesion may not be the true adhesion of the interface, and caution should be exercised in using this adhesion value for applications involving normal stresses outside the range of stresses covered by the test.

DATE TESTED: 14 JULY 1995

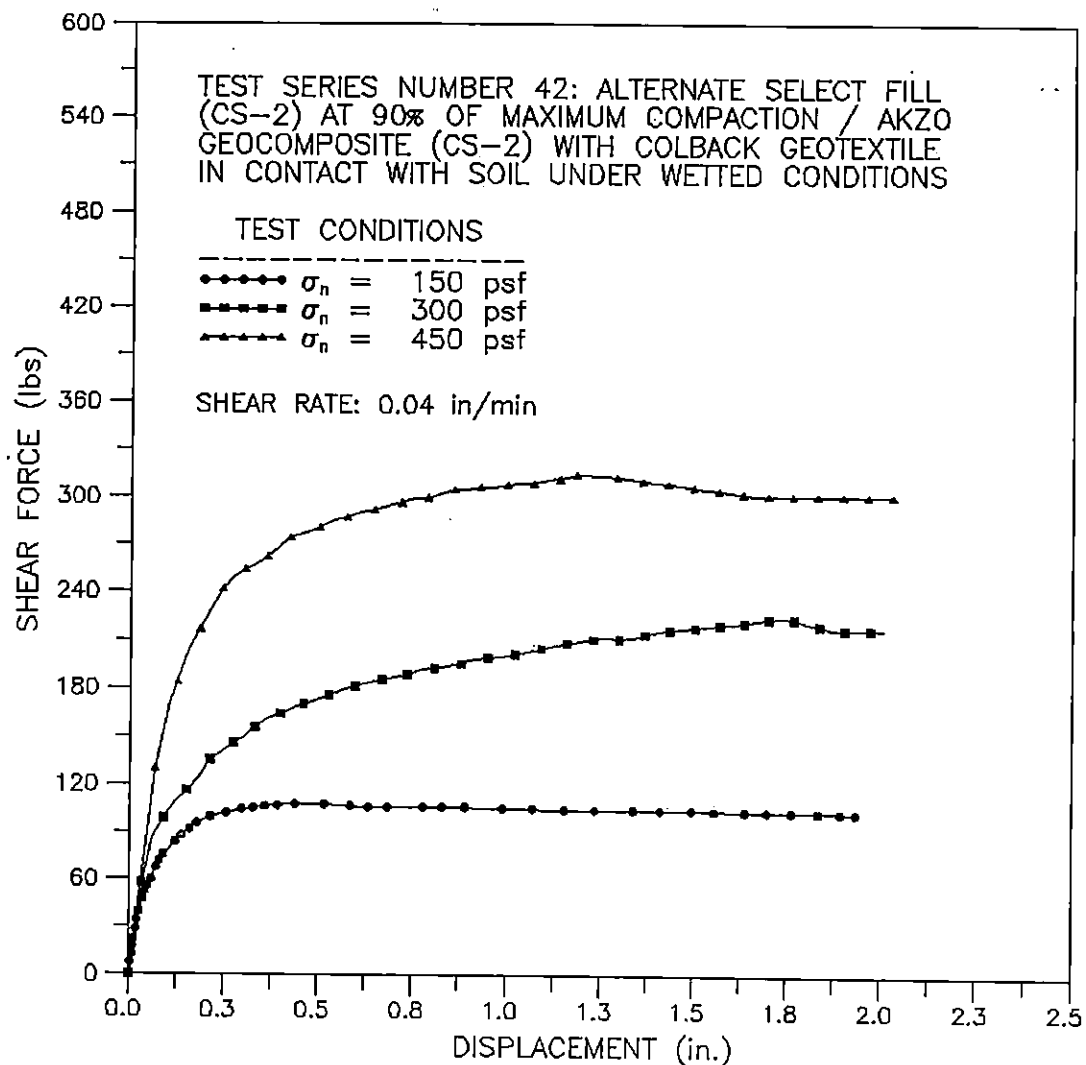


GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.	D-2
PROJECT NO.	GQ3700-03
DOCUMENT NO.	SGI96084
FILE NO.	

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The shear box size was 12 in. by 12 in. (300 mm by 300 mm), and the contact area remained constant throughout the entire test.

DATE TESTED: 14 JULY 1995

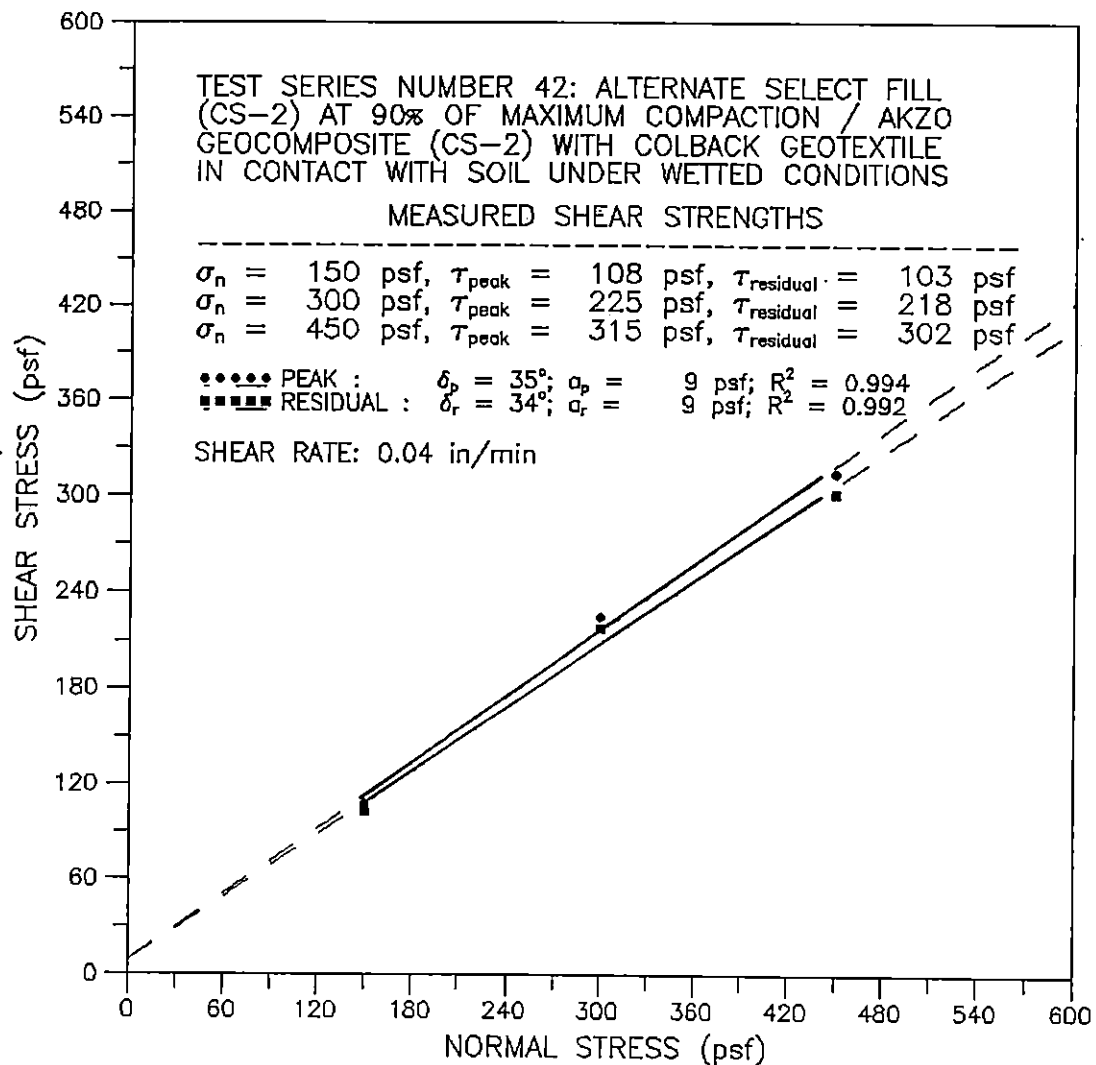


GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.	D-3
PROJECT NO.	GQ3700-03
DOCUMENT NO.	SGI96084
FILE NO.	

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The reported value of adhesion may not be the true adhesion of the interface, and caution should be exercised in using this adhesion value for applications involving normal stresses outside the range of stresses covered by the test.

DATE TESTED: 14 JULY 1995

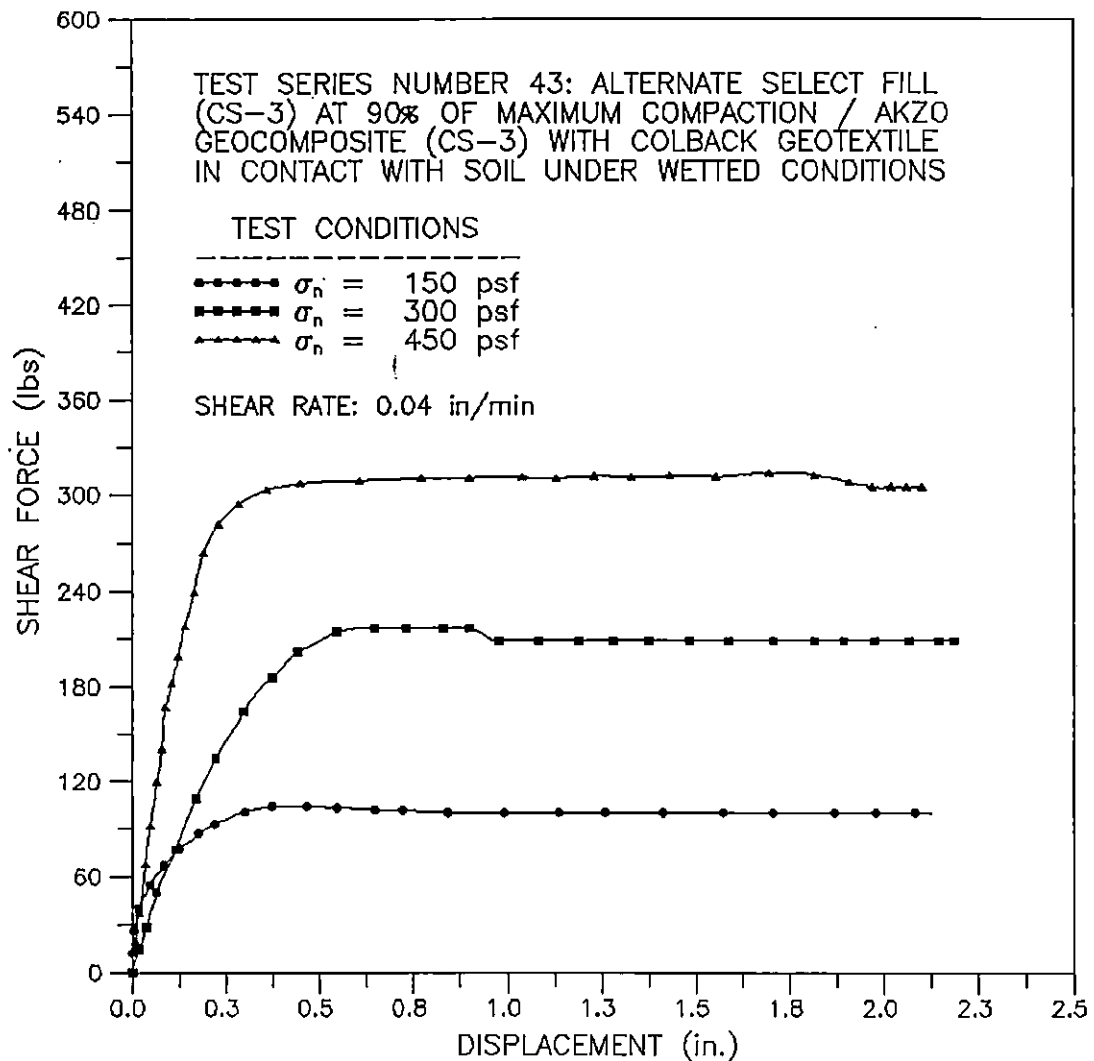


GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.	D-4
PROJECT NO.	GQ3700-03
DOCUMENT NO.	SGI96084
FILE NO.	

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The shear box size was 12 in. by 12 in. (300 mm by 300 mm), and the contact area remained constant throughout the entire test.

DATE TESTED: 18 JULY 1995

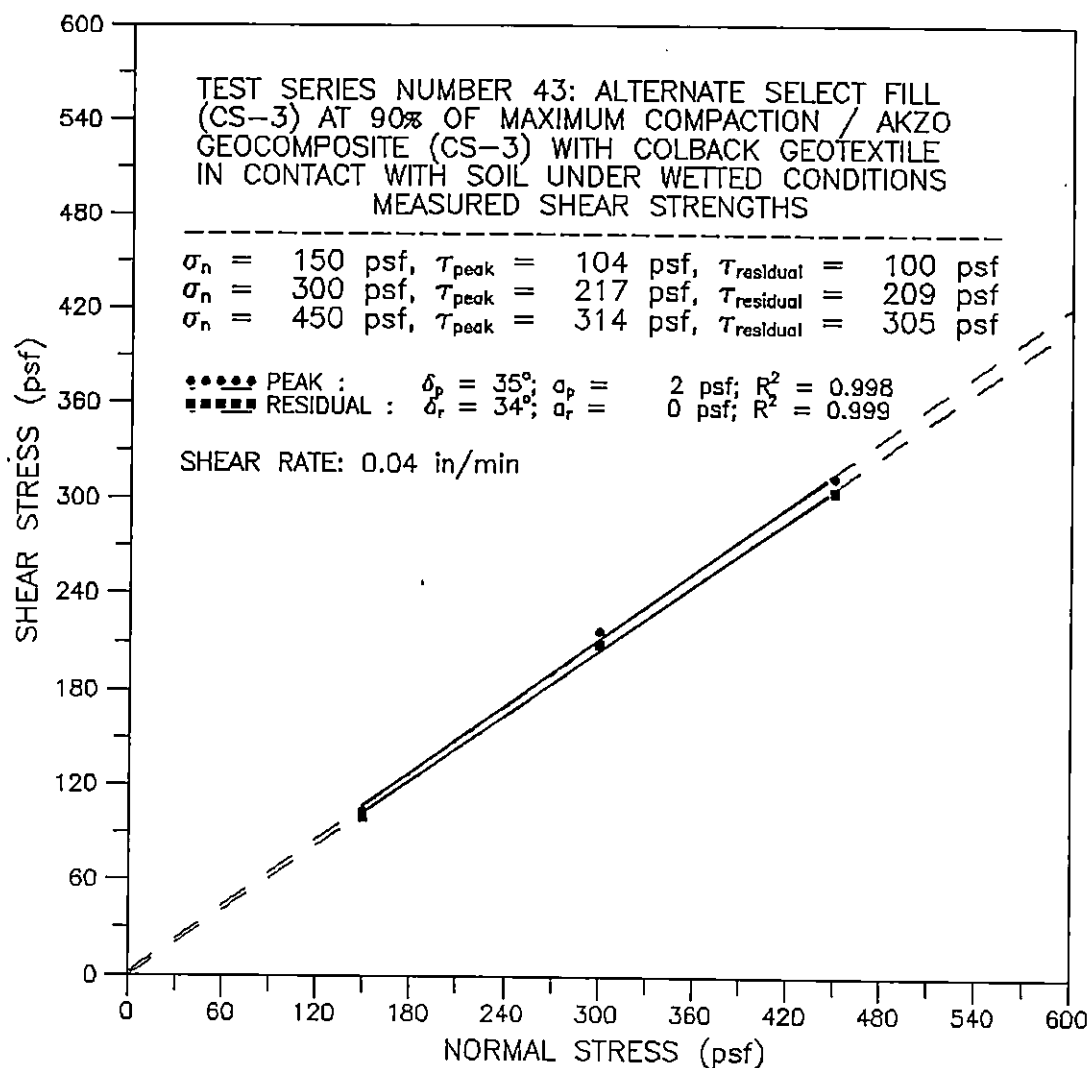


GEO SYNTec CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.	D-5
PROJECT NO.	GQ3700-03
DOCUMENT NO.	SGI96084
FILE NO.	

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The reported value of adhesion may not be the true adhesion of the interface, and caution should be exercised in using this adhesion value for applications involving normal stresses outside the range of stresses covered by the test.

DATE TESTED: 18 JULY 1995

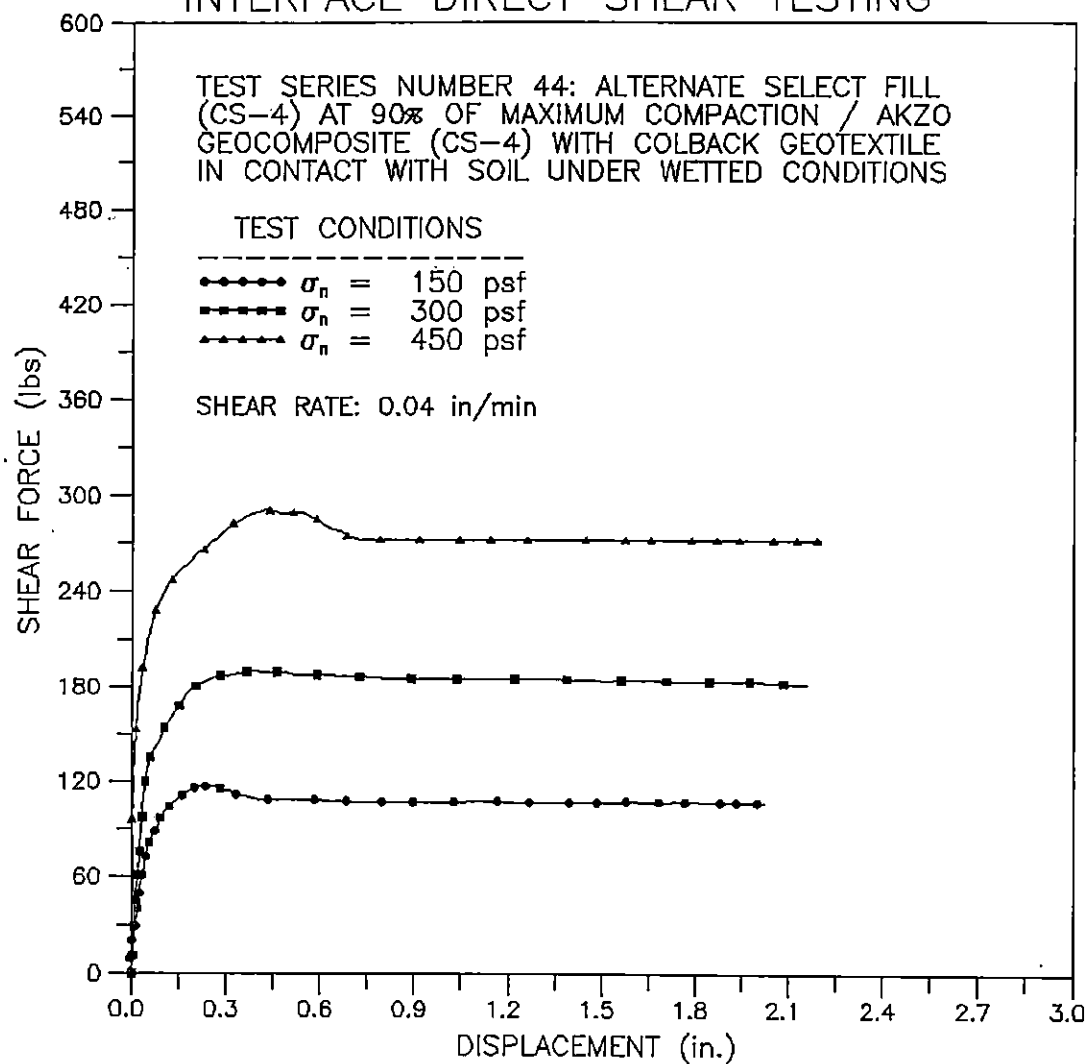


GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.	D-6
PROJECT NO.	GQ3700-03
DOCUMENT NO.	SGI96084
FILE NO.	

TOWN OF HUNTINGTON INTERFACE DIRECT SHEAR TESTING



NOTE: The shear box size was 12 in. by 12 in. (300 mm by 300 mm), and the contact area remained constant throughout the entire test.

DATE TESTED: 17 JULY 1995

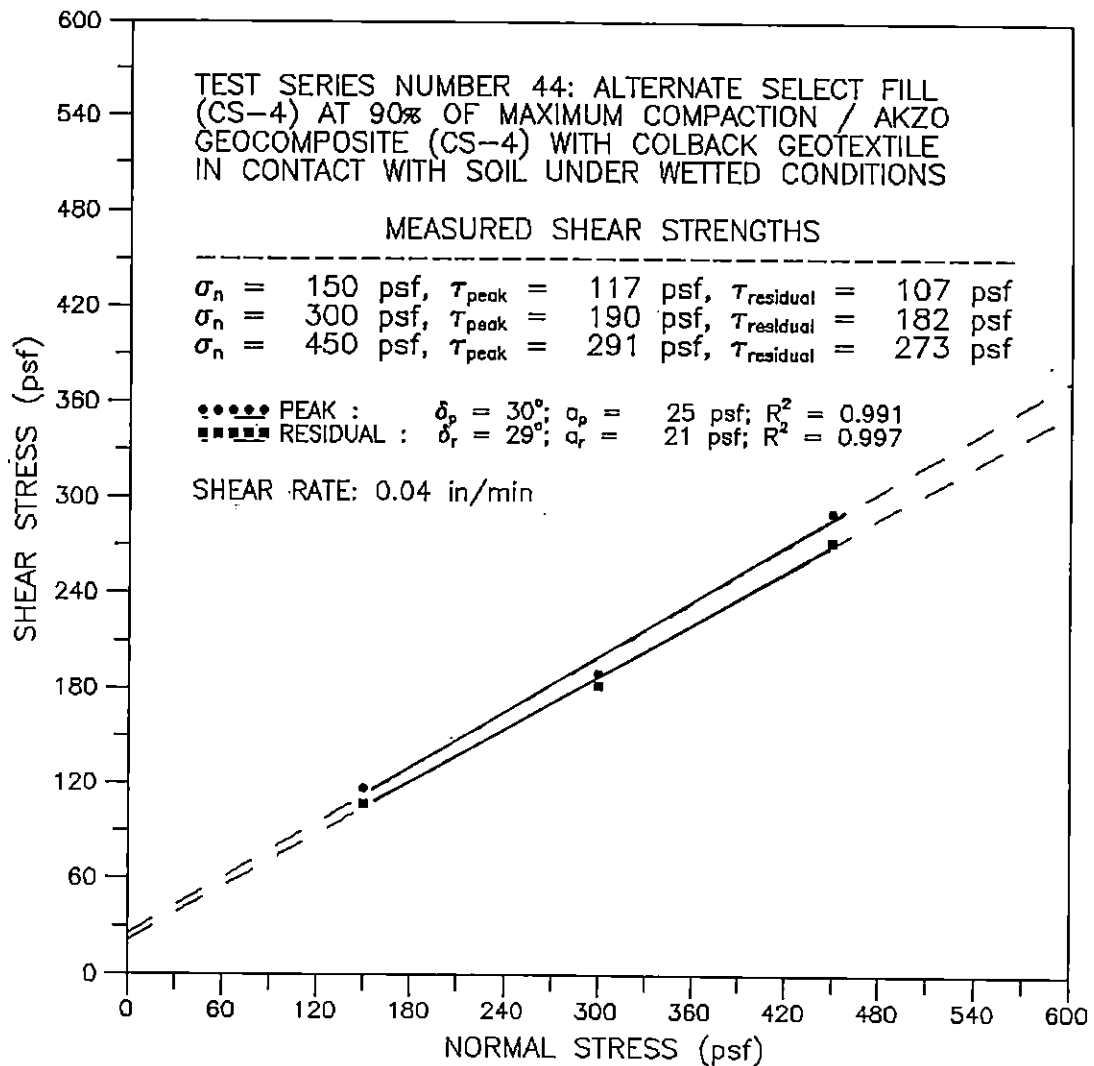


GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.	D-7
PROJECT NO.	GQ3700-03
DOCUMENT NO.	SGI96084
FILE NO.	

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The reported value of adhesion may not be the true adhesion of the interface, and caution should be exercised in using this adhesion value for applications involving normal stresses outside the range of stresses covered by the test.

DATE TESTED: 17 JULY 1995

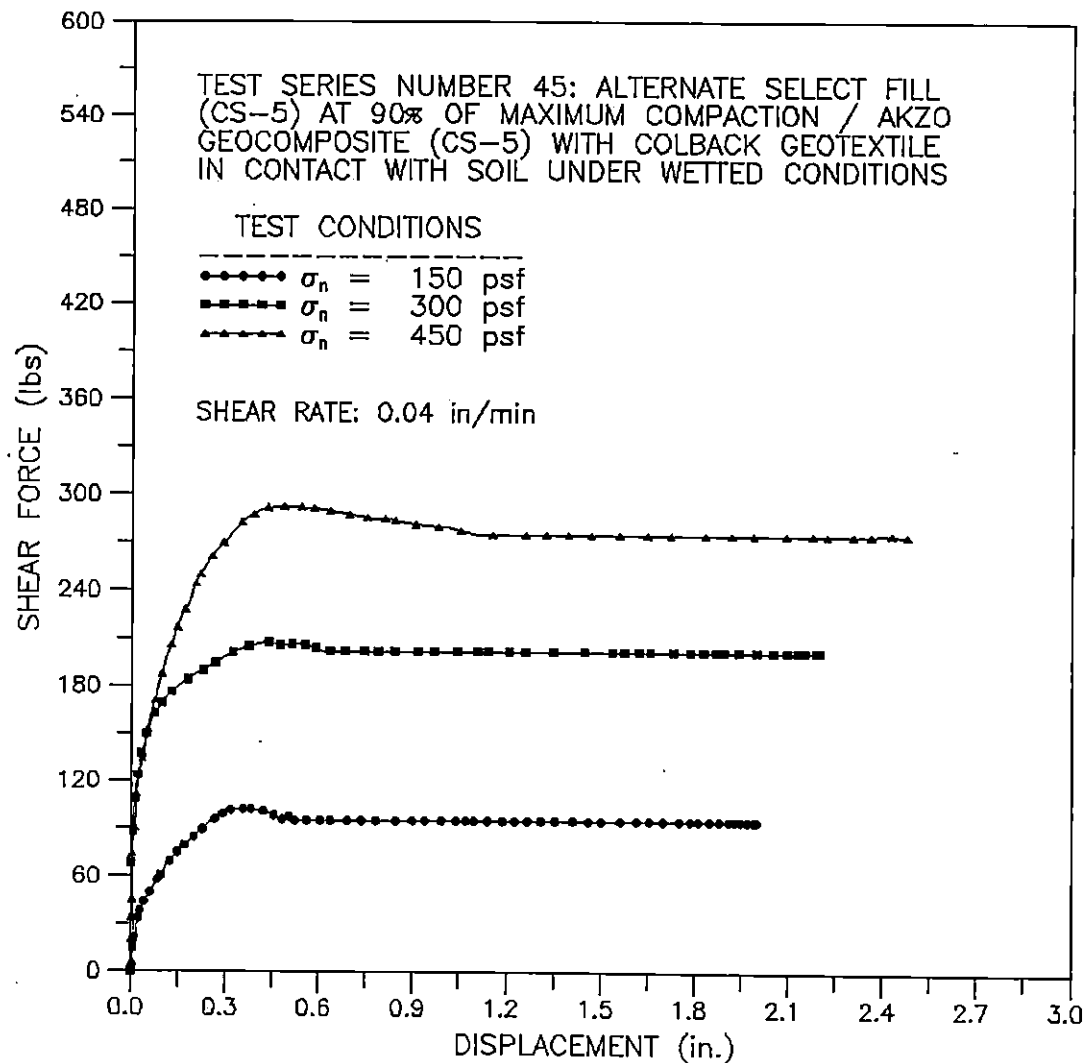


GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.	D-8
PROJECT NO.	GQ3700-03
DOCUMENT NO.	SGI96084
FILE NO.	

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The shear box size was 12 in. by 12 in. (300 mm by 300 mm), and the contact area remained constant throughout the entire test.

DATE TESTED: 18 JULY 1995

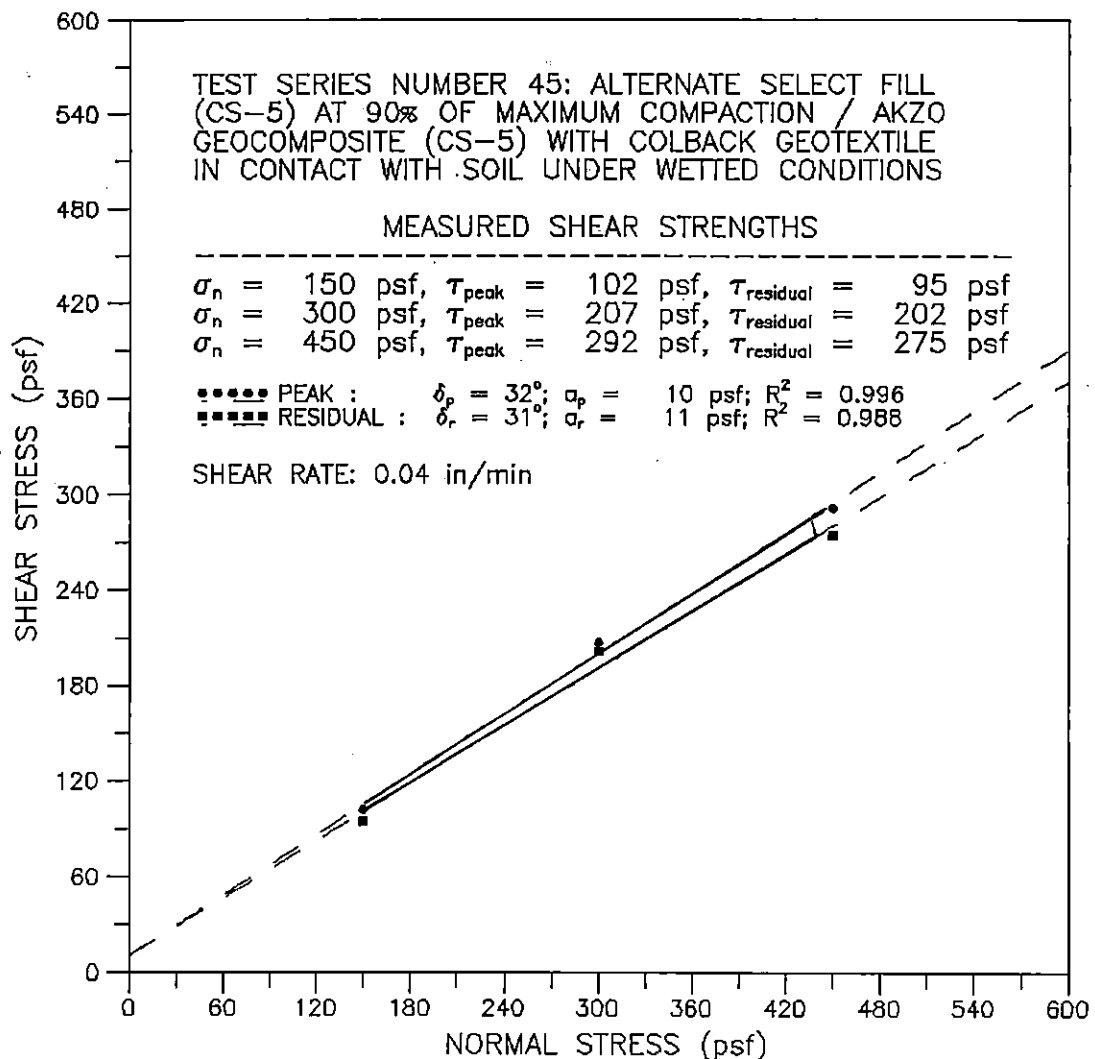


GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.	D-9
PROJECT NO.	GQ3700-03
DOCUMENT NO.	SGI96084
FILE NO.	

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The reported value of adhesion may not be the true adhesion of the interface, and caution should be exercised in using this adhesion value for applications involving normal stresses outside the range of stresses covered by the test.

DATE TESTED: 18 JULY 1995



GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

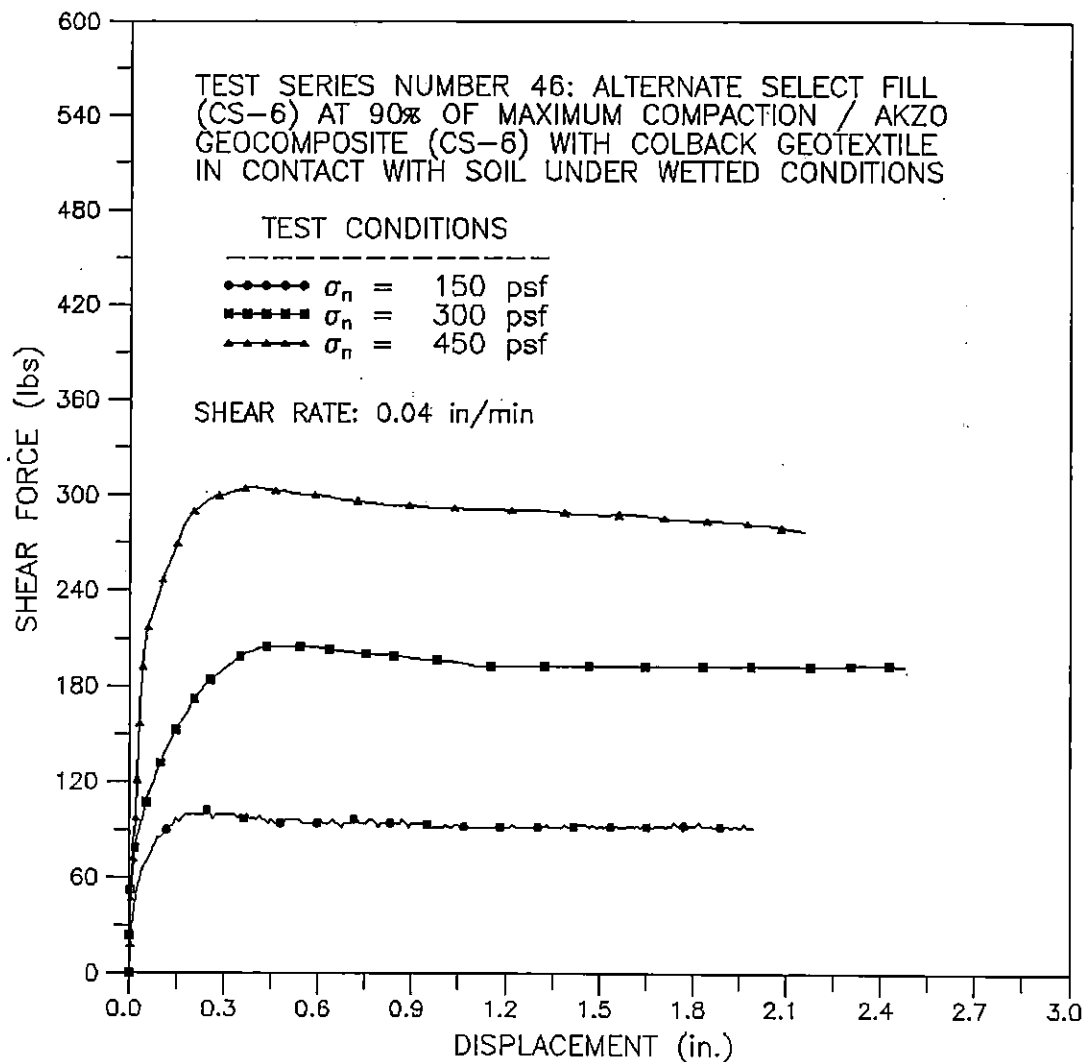
FIGURE NO. D-10

PROJECT NO. GQ3700-03

DOCUMENT NO. SGI96084

FILE NO.

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The shear box size was 12 in. by 12 in. (300 mm by 300 mm), and the contact area remained constant throughout the entire test.

DATE TESTED: 20 JULY 1995

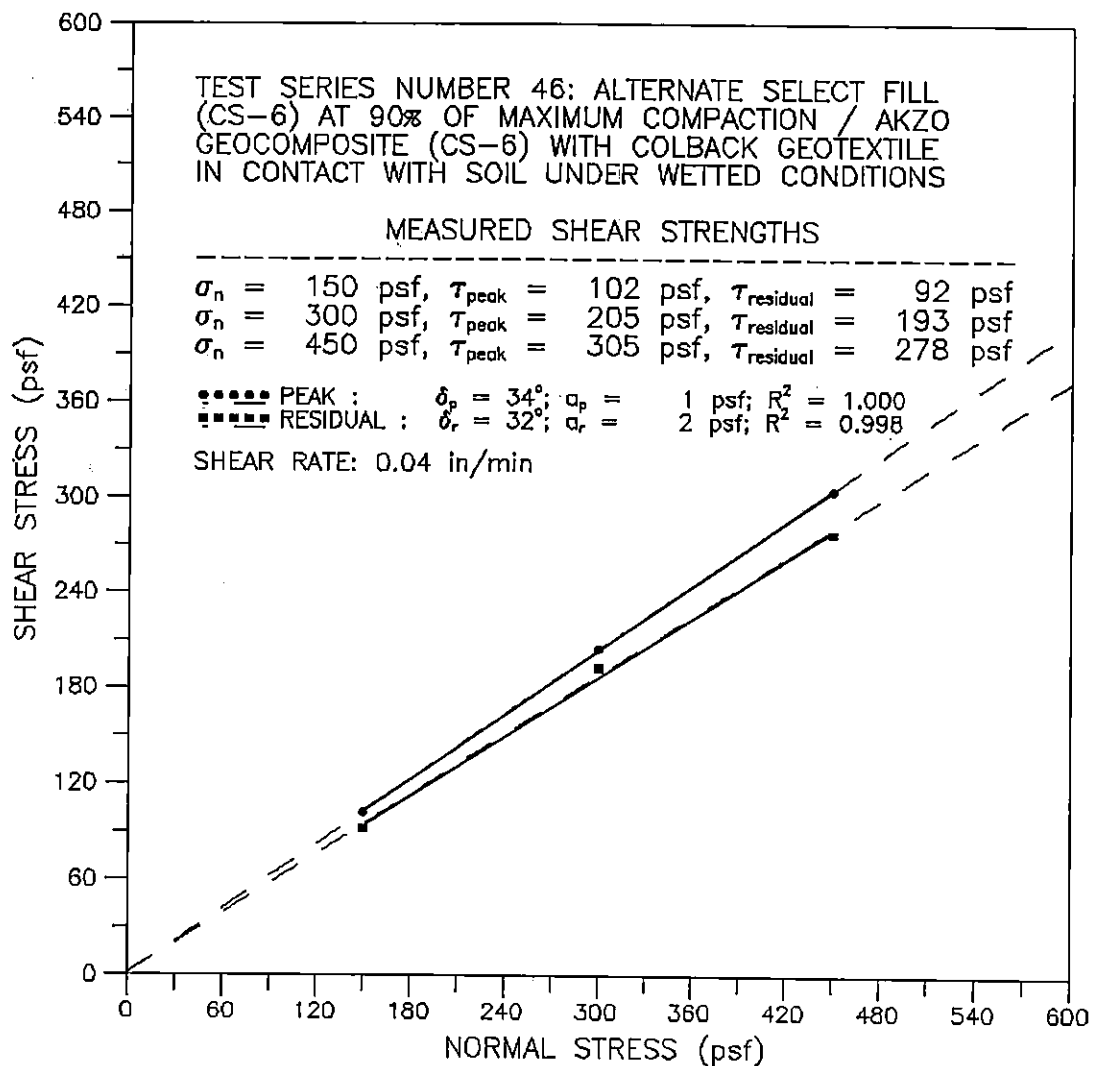


GEO SYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.	D-11
PROJECT NO.	GQ3700-03
DOCUMENT NO.	SGI96084
FILE NO.	

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The reported value of adhesion may not be the true adhesion of the interface, and caution should be exercised in using this adhesion value for applications involving normal stresses outside the range of stresses covered by the test.

DATE TESTED: 20 JULY 1995

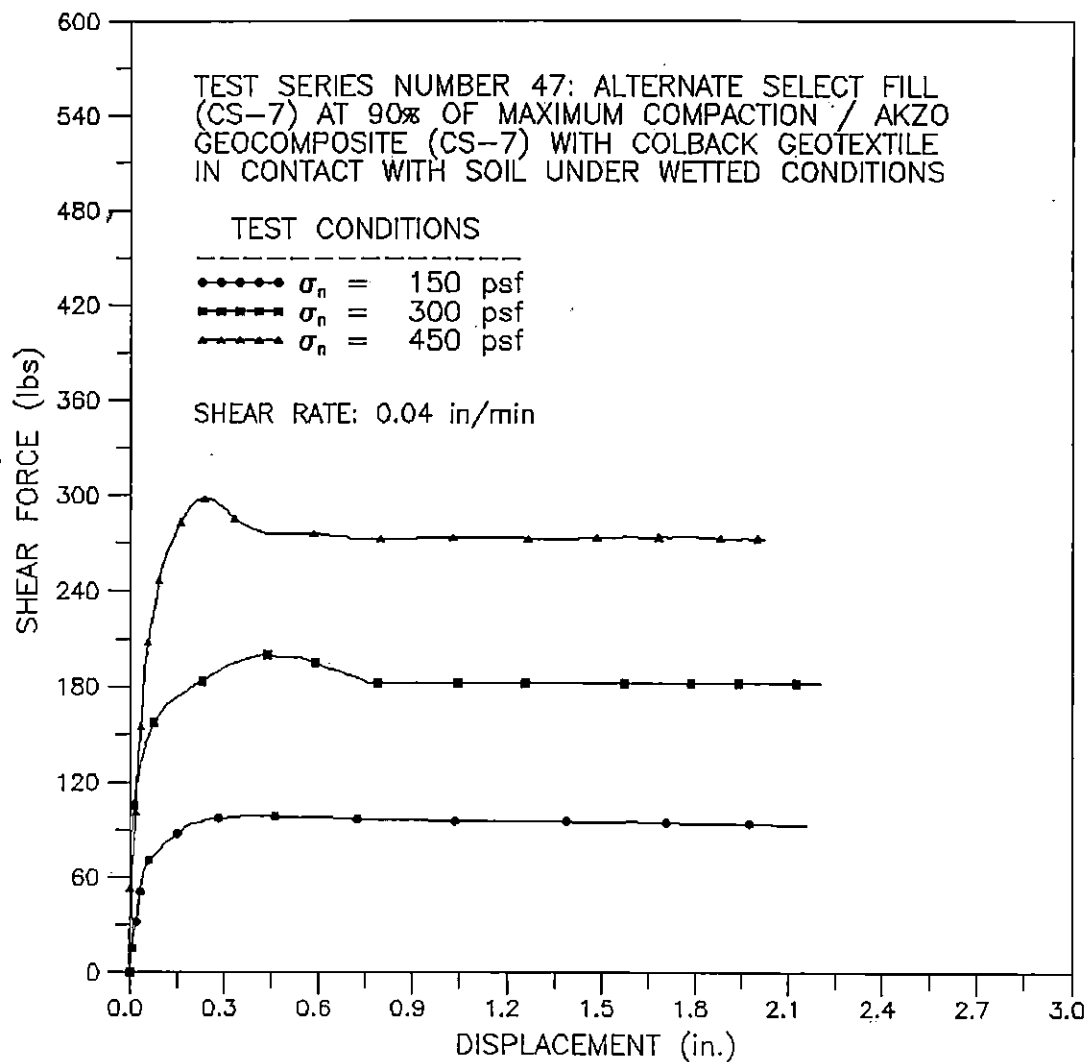


GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.	D-12
PROJECT NO.	GQ3700-03
DOCUMENT NO.	SGI96084
FILE NO.	

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The shear box size was 12 in. by 12 in. (300 mm by 300 mm), and the contact area remained constant throughout the entire test.

DATE TESTED: 21 JULY 1995

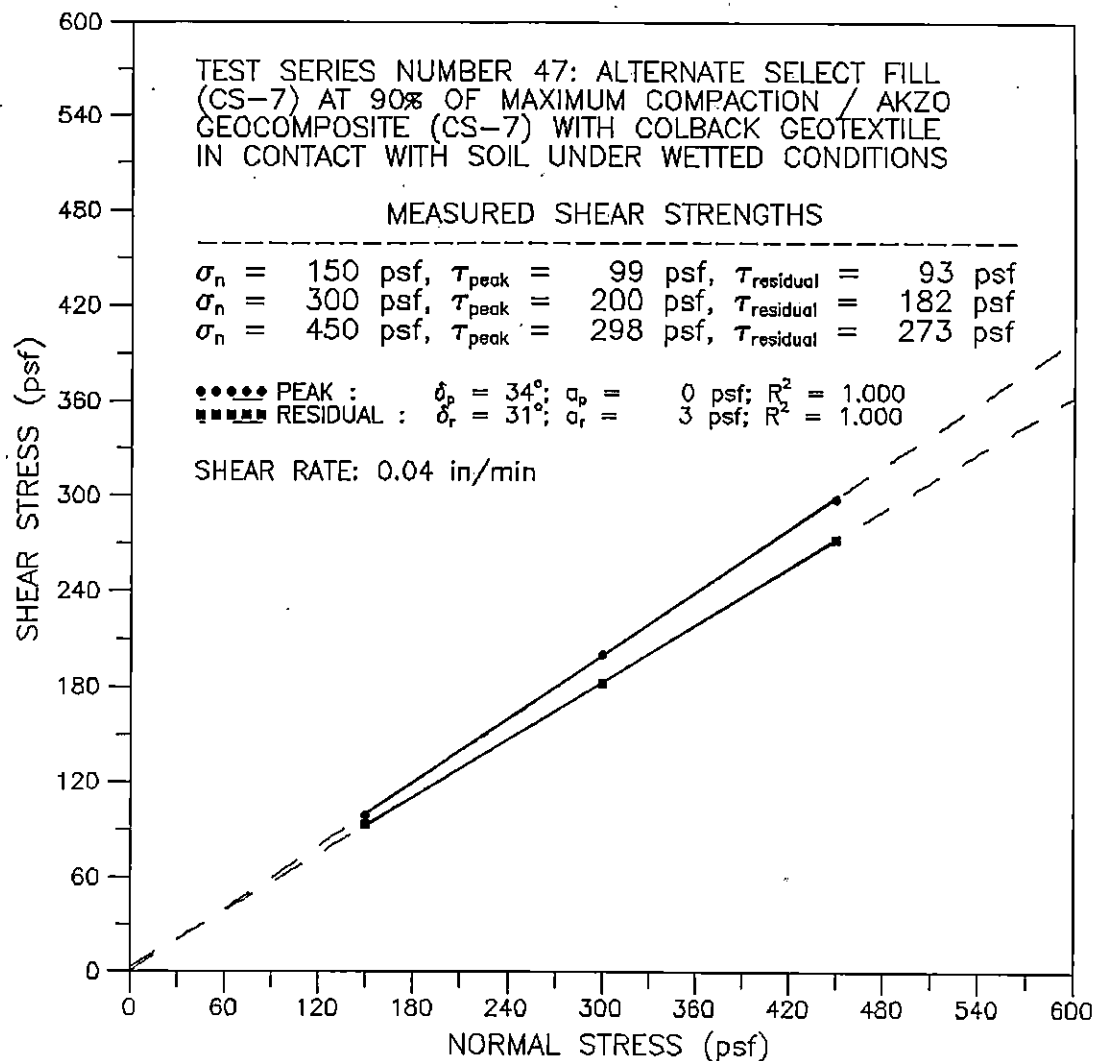


GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.	D-13
PROJECT NO.	GQ3700-03
DOCUMENT NO.	SGI96084
FILE NO.	

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The reported value of adhesion may not be the true adhesion of the interface, and caution should be exercised in using this adhesion value for applications involving normal stresses outside the range of stresses covered by the test.

DATE TESTED: 21 JULY 1995



GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

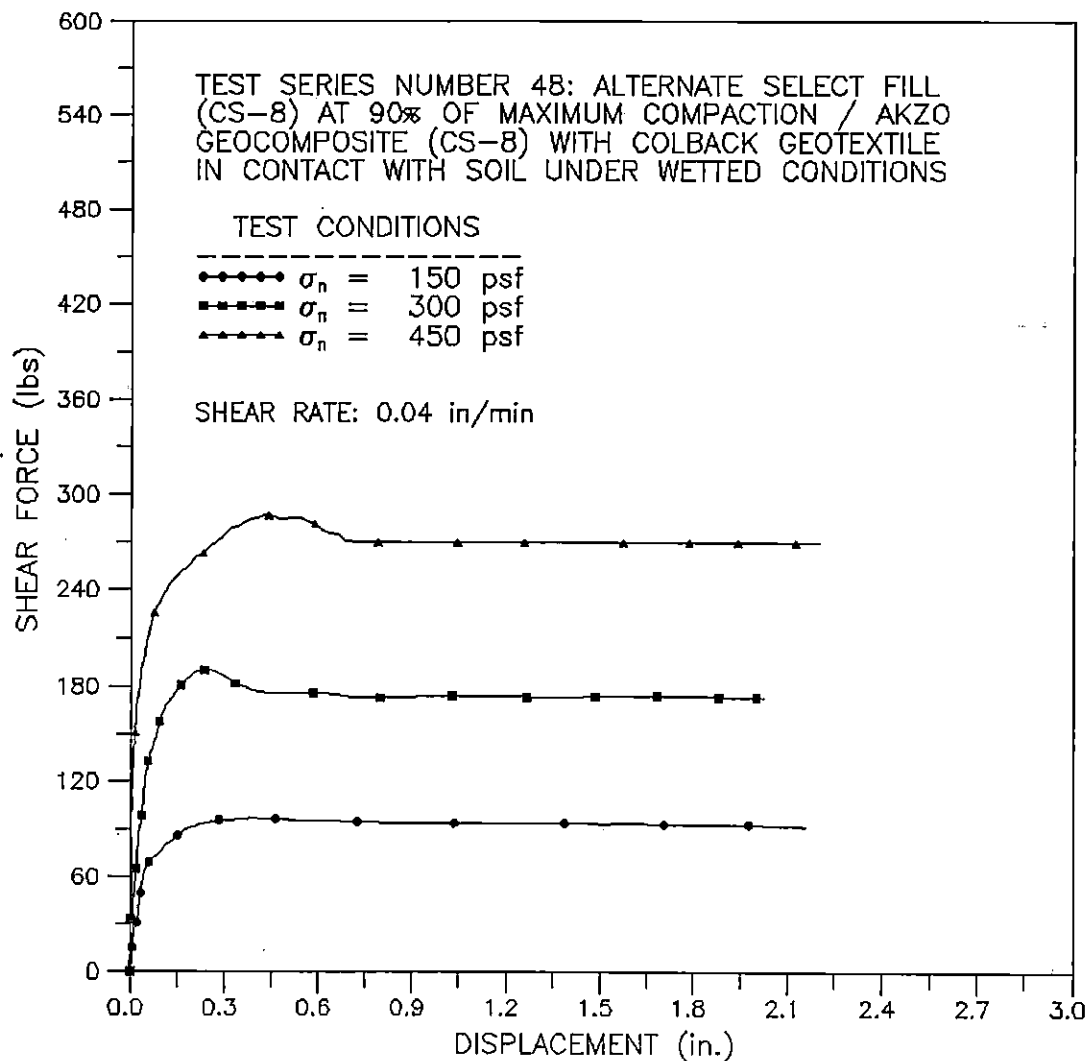
FIGURE NO. D-14

PROJECT NO. GQ3700-03

DOCUMENT NO. SGI96084

FILE NO.

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The shear box size was 12 in. by 12 in. (300 mm by 300 mm), and the contact area remained constant throughout the entire test.

DATE TESTED: 27 JULY 1995



GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

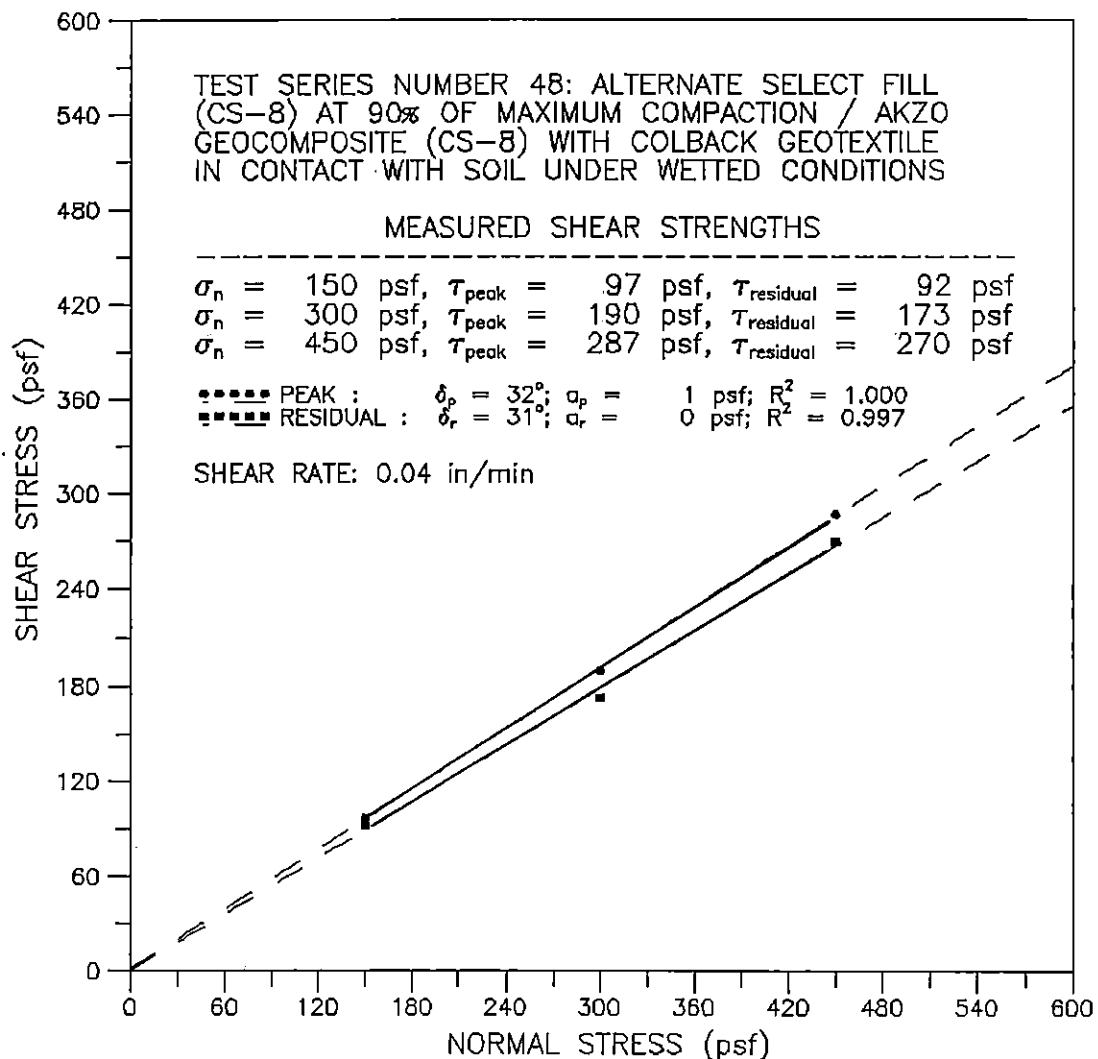
FIGURE NO. D-15

PROJECT NO. GQ3700-03

DOCUMENT NO. SG196084

FILE NO.

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The reported value of adhesion may not be the true adhesion of the interface, and caution should be exercised in using this adhesion value for applications involving normal stresses outside the range of stresses covered by the test.

DATE TESTED: 27 JULY 1995

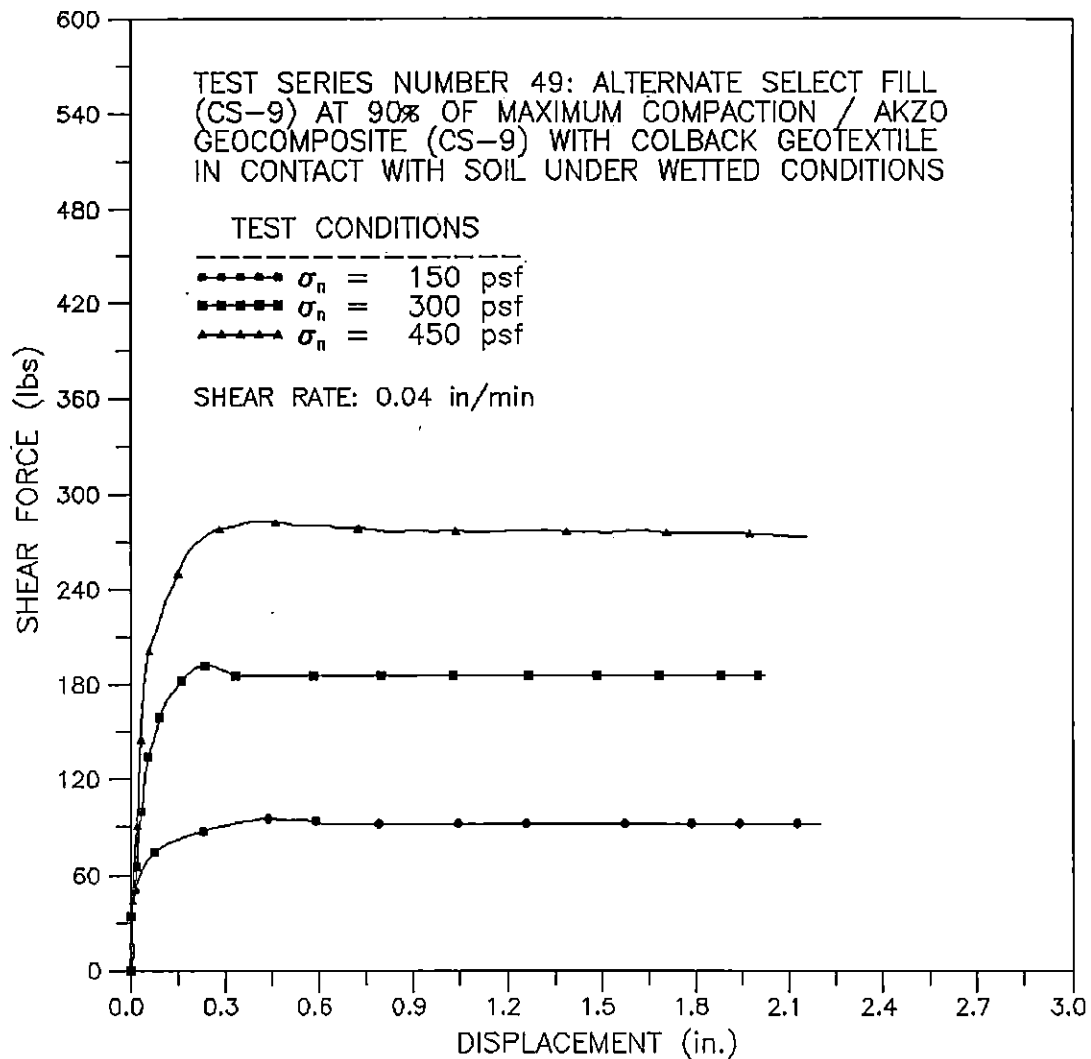


GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.	D-16
PROJECT NO.	GQ3700-03
DOCUMENT NO.	SGI96084
FILE NO.	

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The shear box size was 12 in. by 12 in. (300 mm by 300 mm), and the contact area remained constant throughout the entire test.

DATE TESTED: 28 JULY 1995



GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

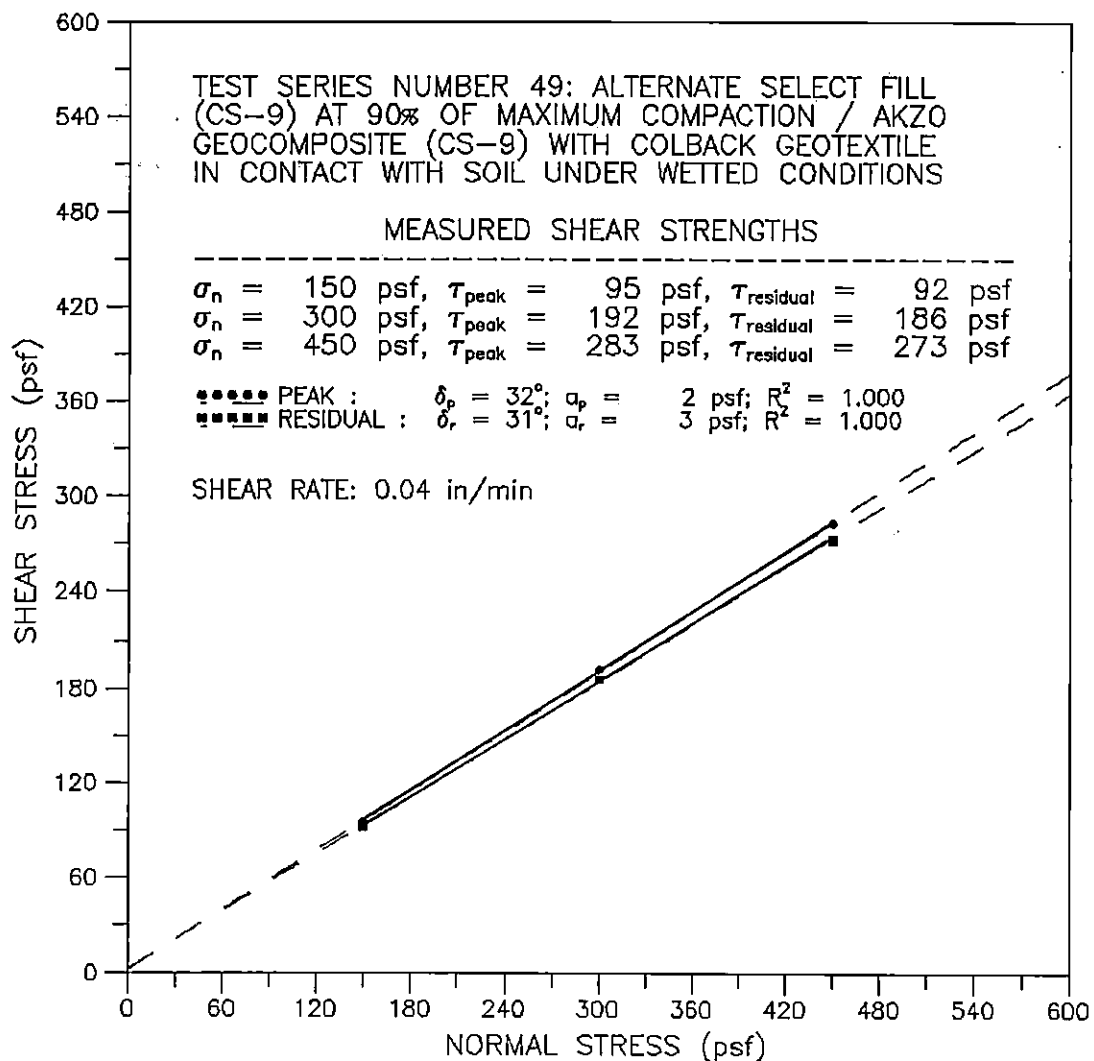
FIGURE NO. D-17

PROJECT NO. GQ3700-03

DOCUMENT NO. SGI96084

FILE NO.

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The reported value of adhesion may not be the true adhesion of the interface, and caution should be exercised in using this adhesion value for applications involving normal stresses outside the range of stresses covered by the test.

DATE TESTED: 28 JULY 1995



GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

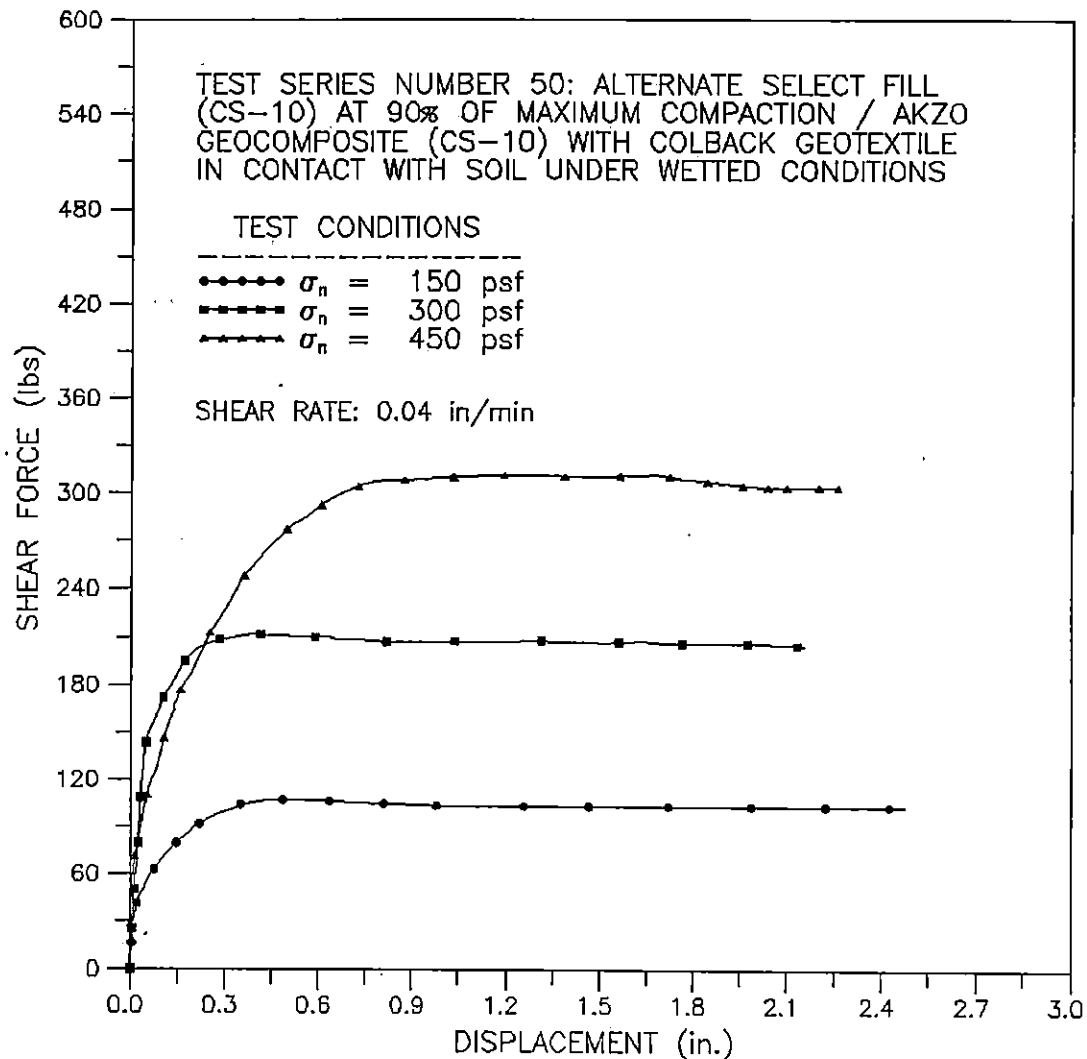
FIGURE NO. D-18

PROJECT NO. GQ3700-03

DOCUMENT NO. SG196084

FILE NO.

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The shear box size was 12 in. by 12 in. (300 mm by 300 mm), and the contact area remained constant throughout the entire test.

DATE TESTED: 31 JULY 1995

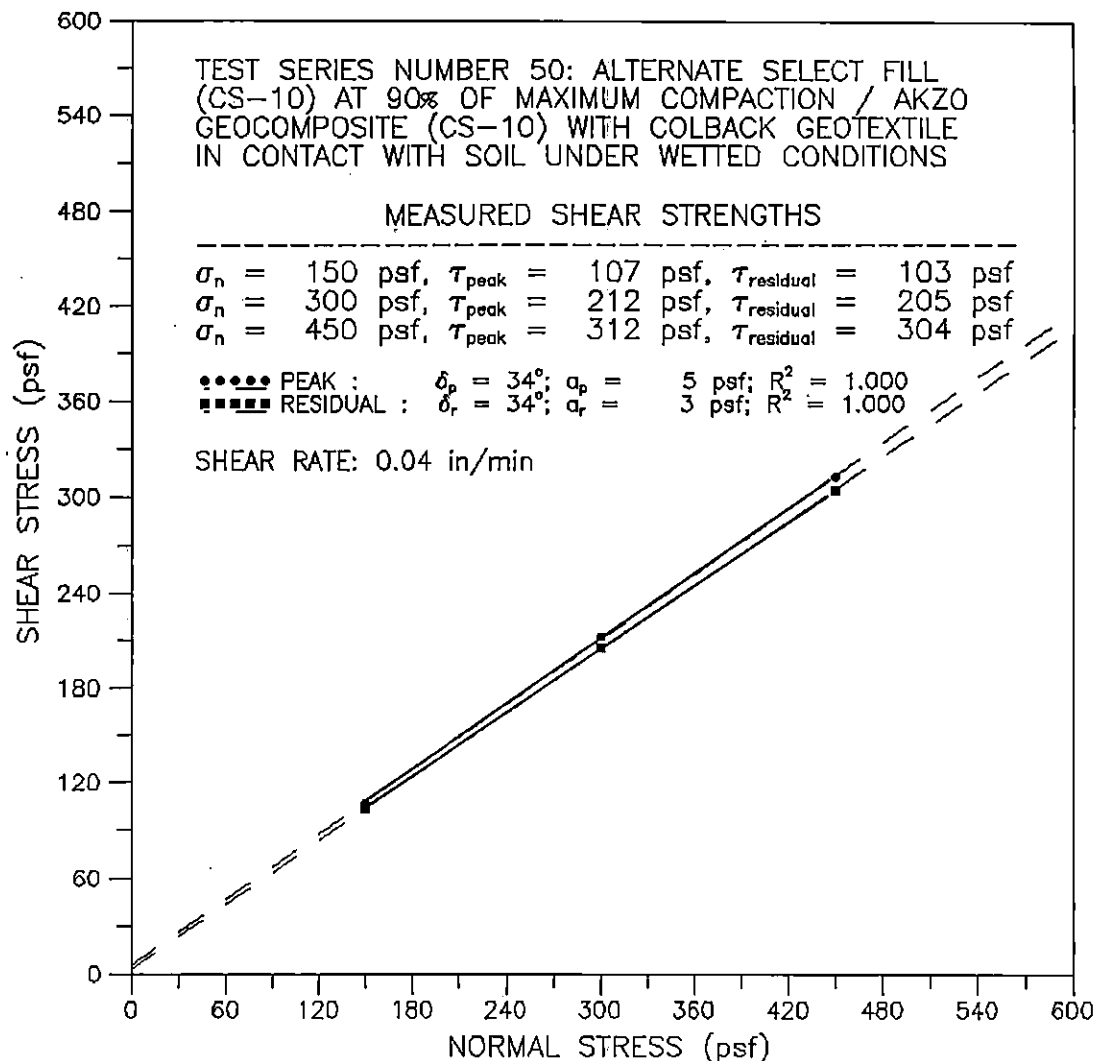


GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.	D-19
PROJECT NO.	GQ3700-03
DOCUMENT NO.	SGI96084
FILE NO.	

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The reported value of adhesion may not be the true adhesion of the interface, and caution should be exercised in using this adhesion value for applications involving normal stresses outside the range of stresses covered by the test.

DATE TESTED: 31 JULY 1995



GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

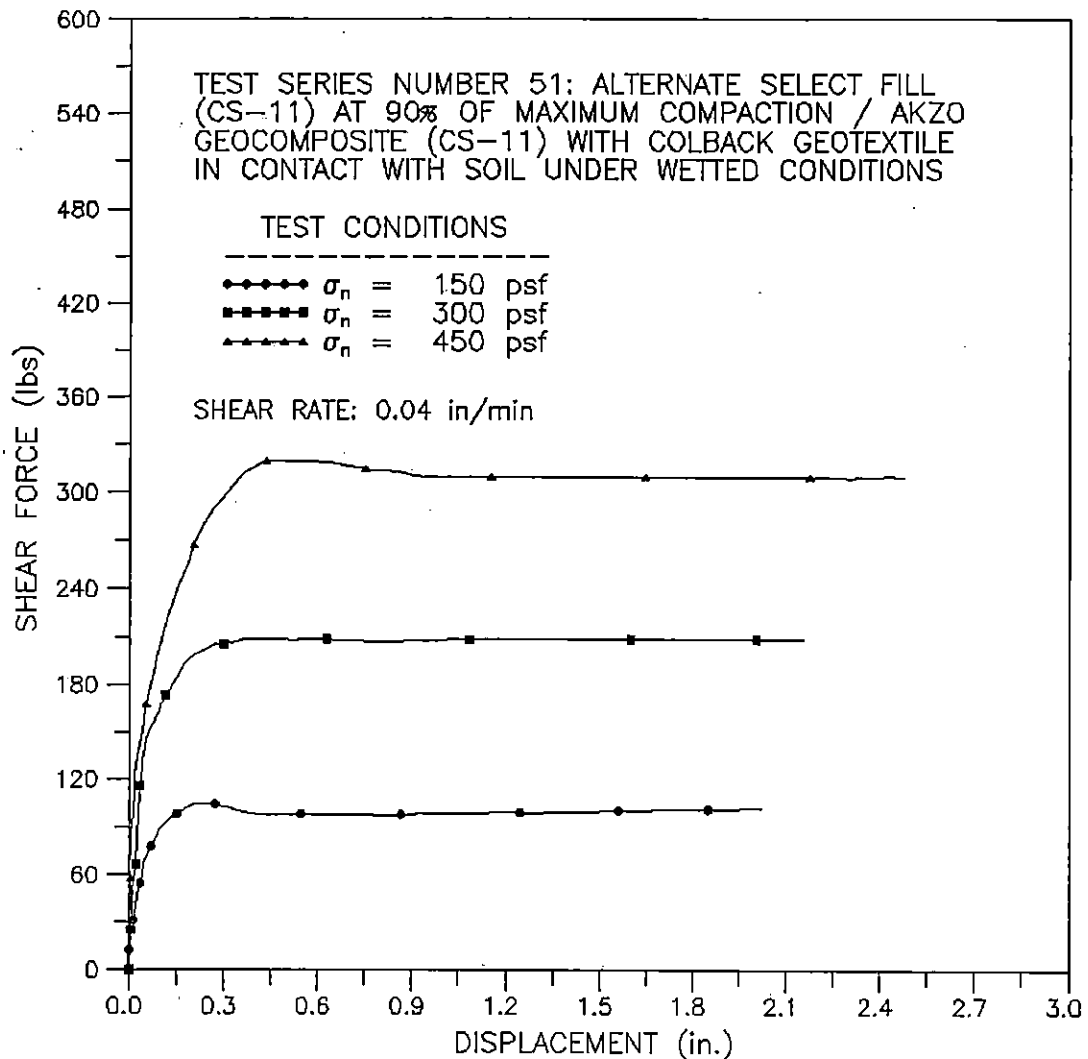
FIGURE NO. D-20

PROJECT NO. GQ3700-03

DOCUMENT NO. SGI95084

FILE NO.

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL
INTERFACE DIRECT SHEAR TESTING



NOTE: The shear box size was 12 in. by 12 in. (300 mm by 300 mm), and the contact area remained constant throughout the entire test.

DATE TESTED: 3 AUGUST 1995



GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

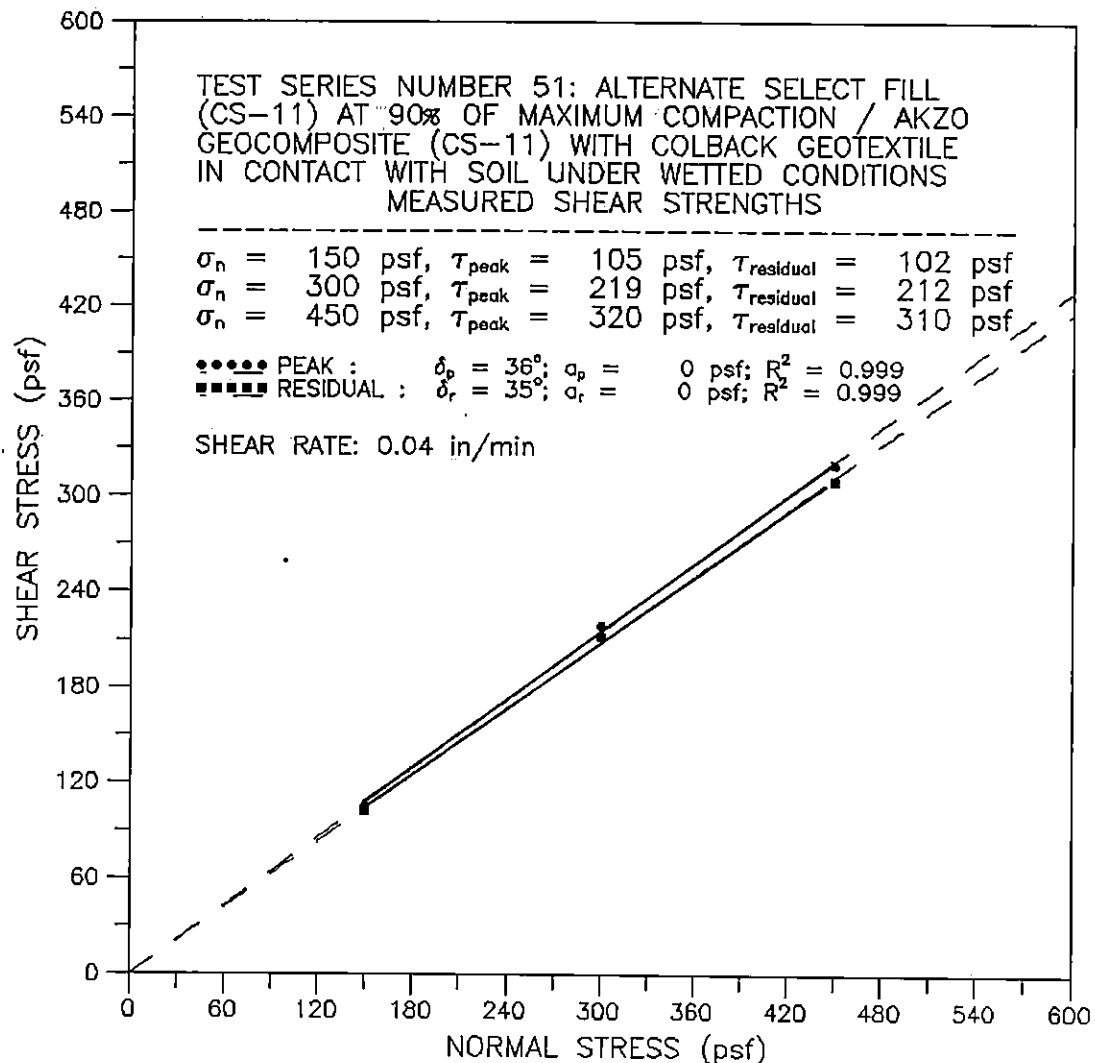
FIGURE NO. D-21

PROJECT NO. GQ3700-03

DOCUMENT NO. SGI96084

FILE NO.

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The reported value of adhesion may not be the true adhesion of the interface, and caution should be exercised in using this adhesion value for applications involving normal stresses outside the range of stresses covered by the test.

DATE TESTED: 3 AUGUST 1995



GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

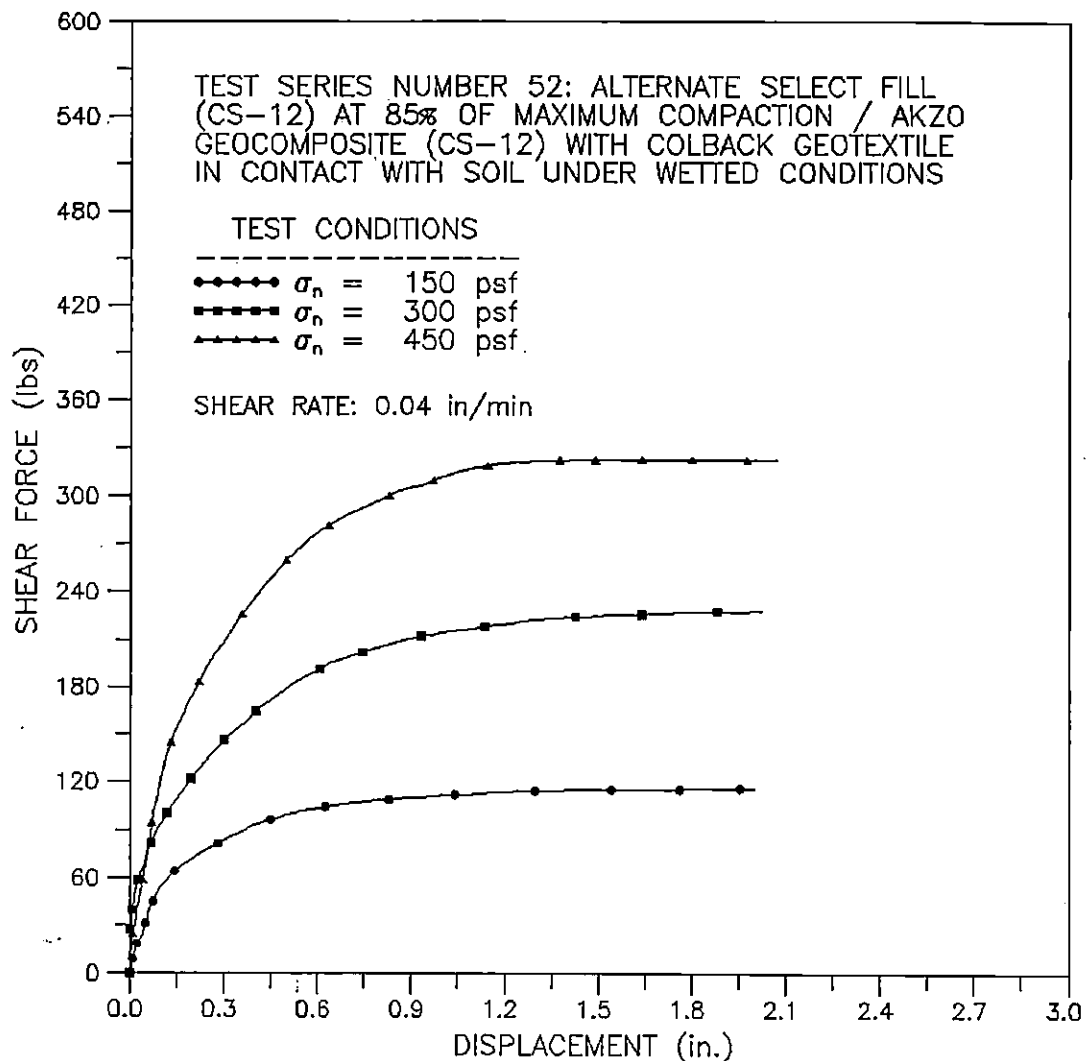
FIGURE NO. D-22

PROJECT NO. GQ3700-03

DOCUMENT NO. SGI96084

FILE NO.

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The shear box size was 12 in. by 12 in. (300 mm by 300 mm), and the contact area remained constant throughout the entire test.

DATE TESTED: 21 AUGUST 1995

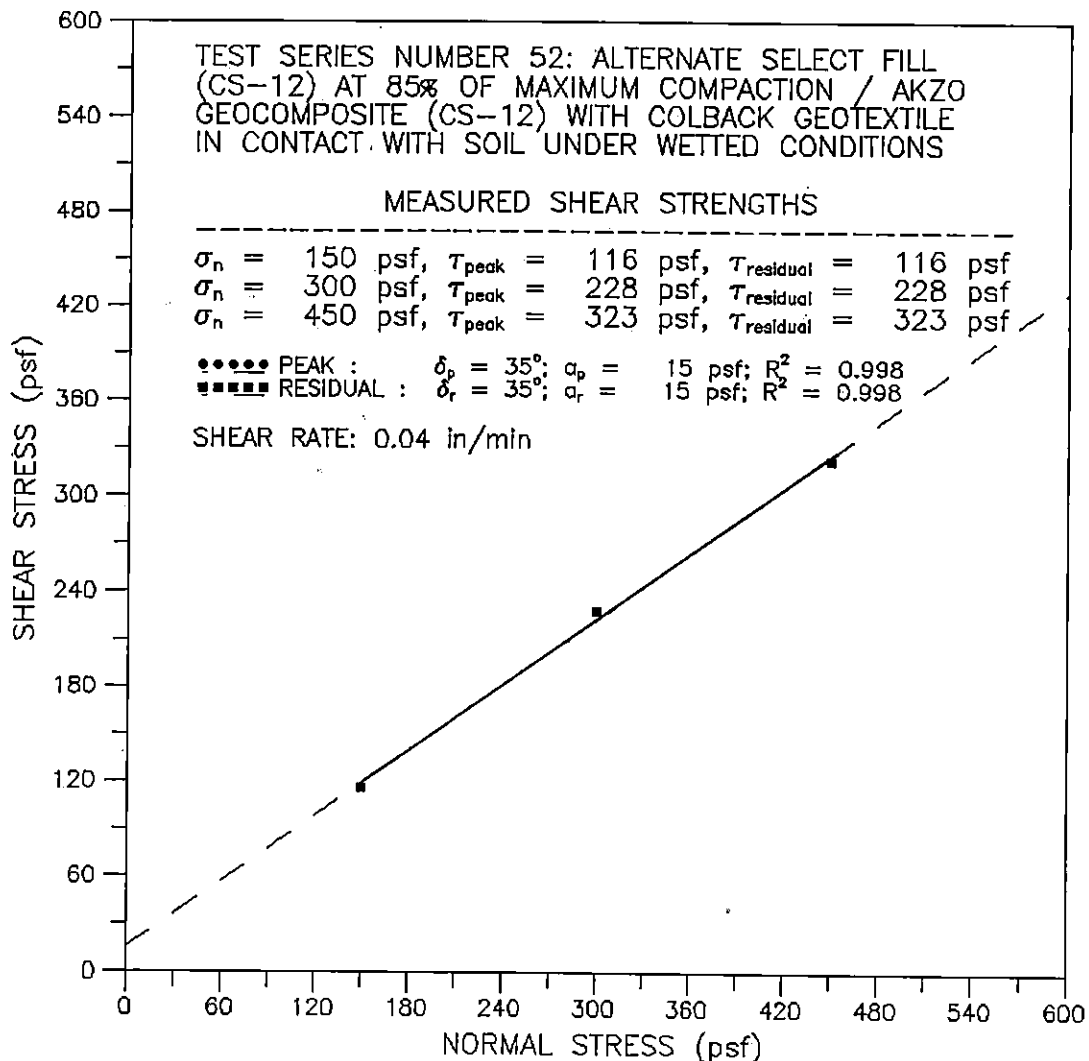


GEO SYNTec CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.	D-23
PROJECT NO.	GQ3700-03
DOCUMENT NO.	SGI96084
FILE NO.	

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The reported value of adhesion may not be the true adhesion of the interface, and caution should be exercised in using this adhesion value for applications involving normal stresses outside the range of stresses covered by the test.

DATE TESTED: 21 AUGUST 1995



GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

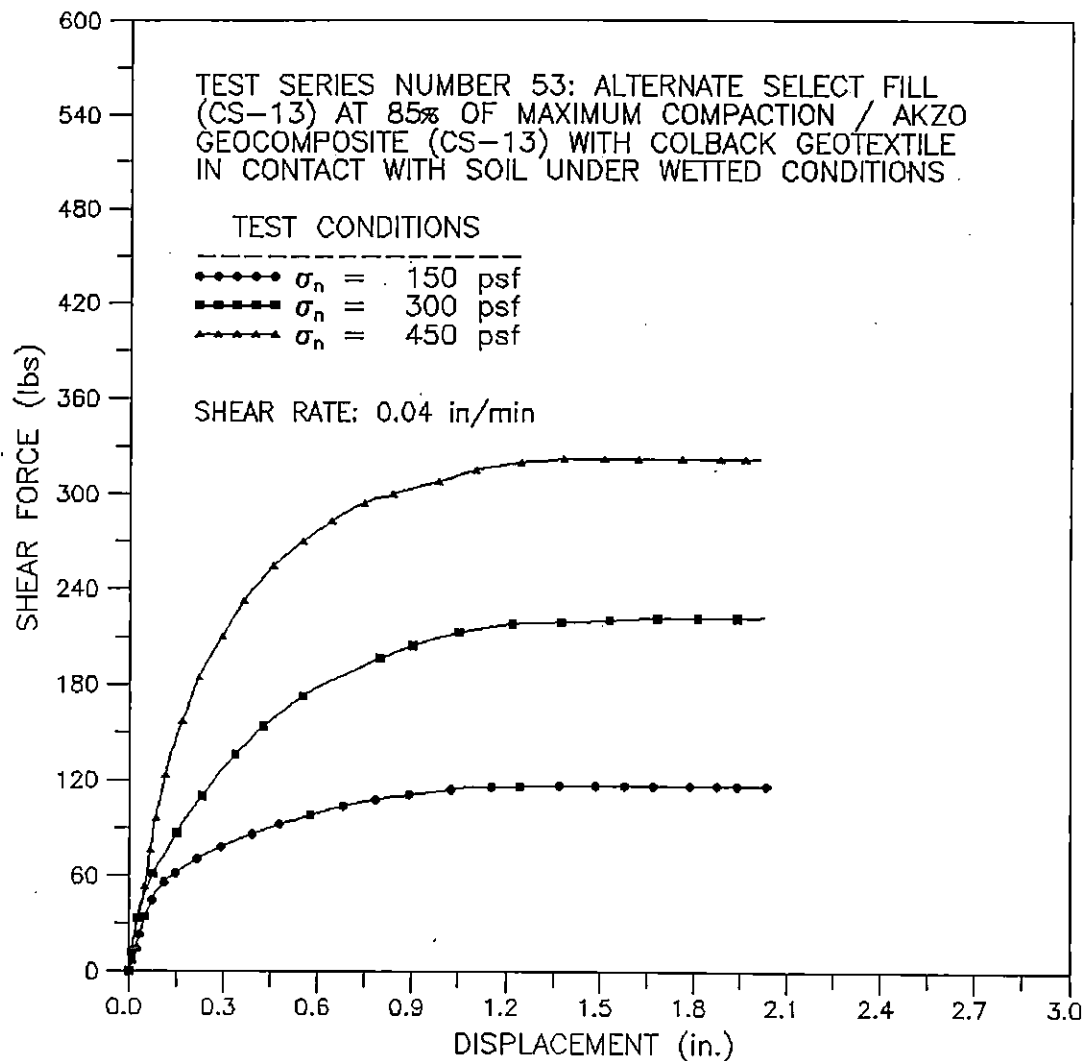
FIGURE NO. D-24

PROJECT NO. GQ3700-03

DOCUMENT NO. SG196084

FILE NO.

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The shear box size was 12 in. by 12 in. (300 mm by 300 mm), and the contact area remained constant throughout the entire test.

DATE TESTED: 23 AUGUST 1995

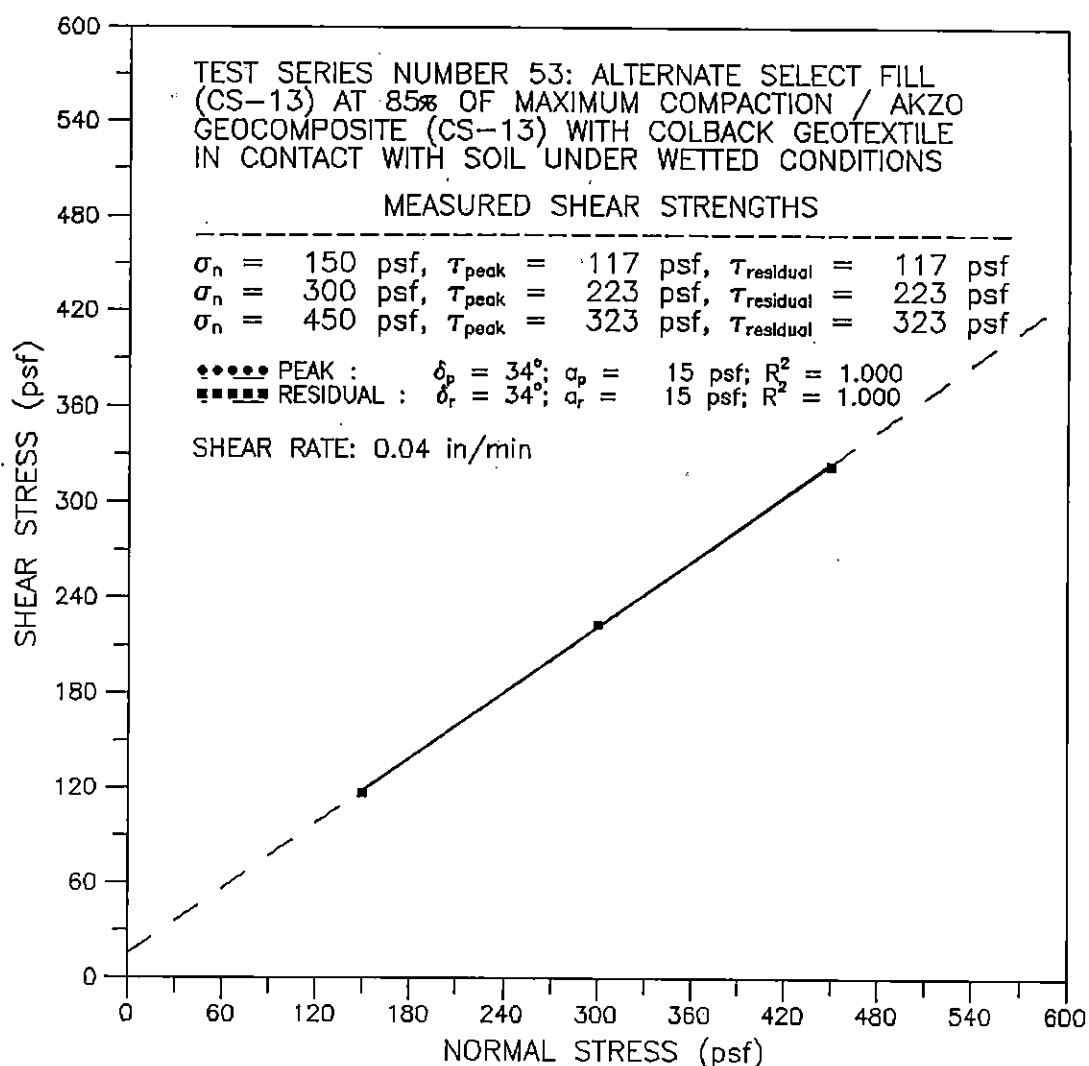


GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.	D-25
PROJECT NO.	GQ3700-03
DOCUMENT NO.	SGI96084
FILE NO.	

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL
INTERFACE DIRECT SHEAR TESTING



NOTE: The reported value of adhesion may not be the true adhesion of the interface, and caution should be exercised in using this adhesion value for applications involving normal stresses outside the range of stresses covered by the test.

DATE TESTED: 23 AUGUST 1995



GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

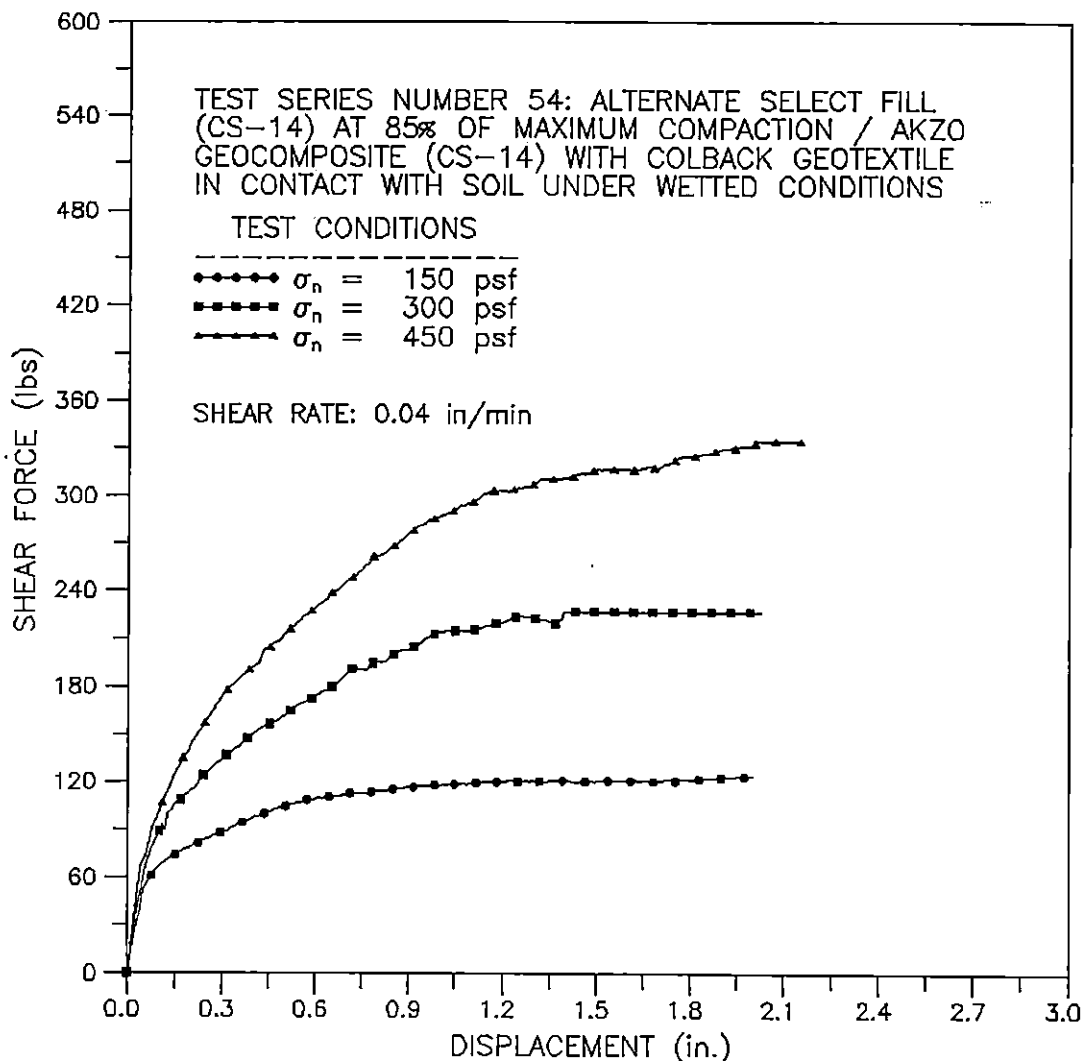
FIGURE NO. D-26

PROJECT NO. GQ3700-03

DOCUMENT NO. SG196084

FILE NO.

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The shear box size was 12 in. by 12 in. (300 mm by 300 mm), and the contact area remained constant throughout the entire test.

DATE TESTED: 31 AUGUST 1995



GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

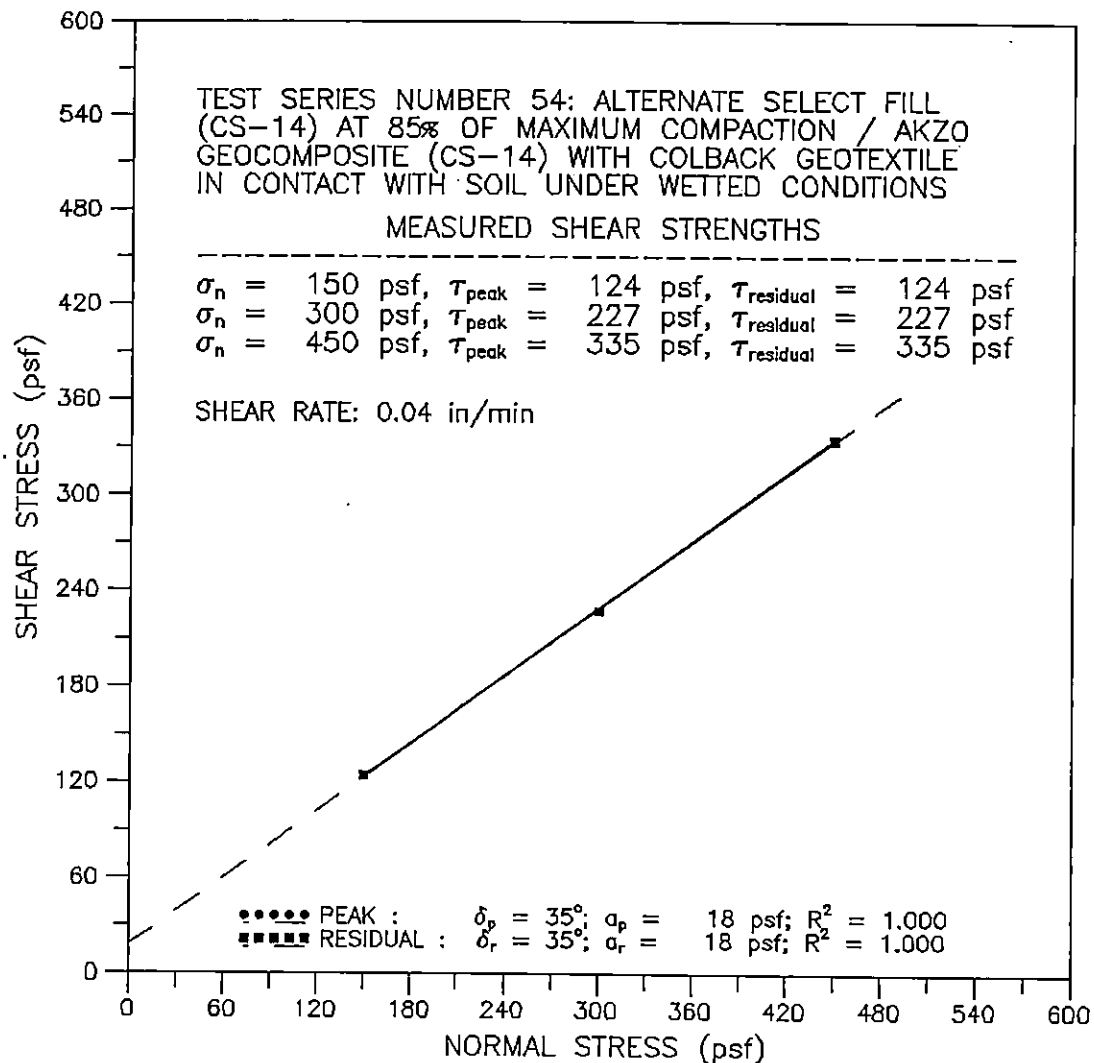
FIGURE NO. D-27

PROJECT NO. GQ3700-03

DOCUMENT NO. SG196084

FILE NO.

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The reported value of adhesion may not be the true adhesion of the interface, and caution should be exercised in using this adhesion value for applications involving normal stresses outside the range of stresses covered by the test.

DATE TESTED: 31 AUGUST 1995



GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

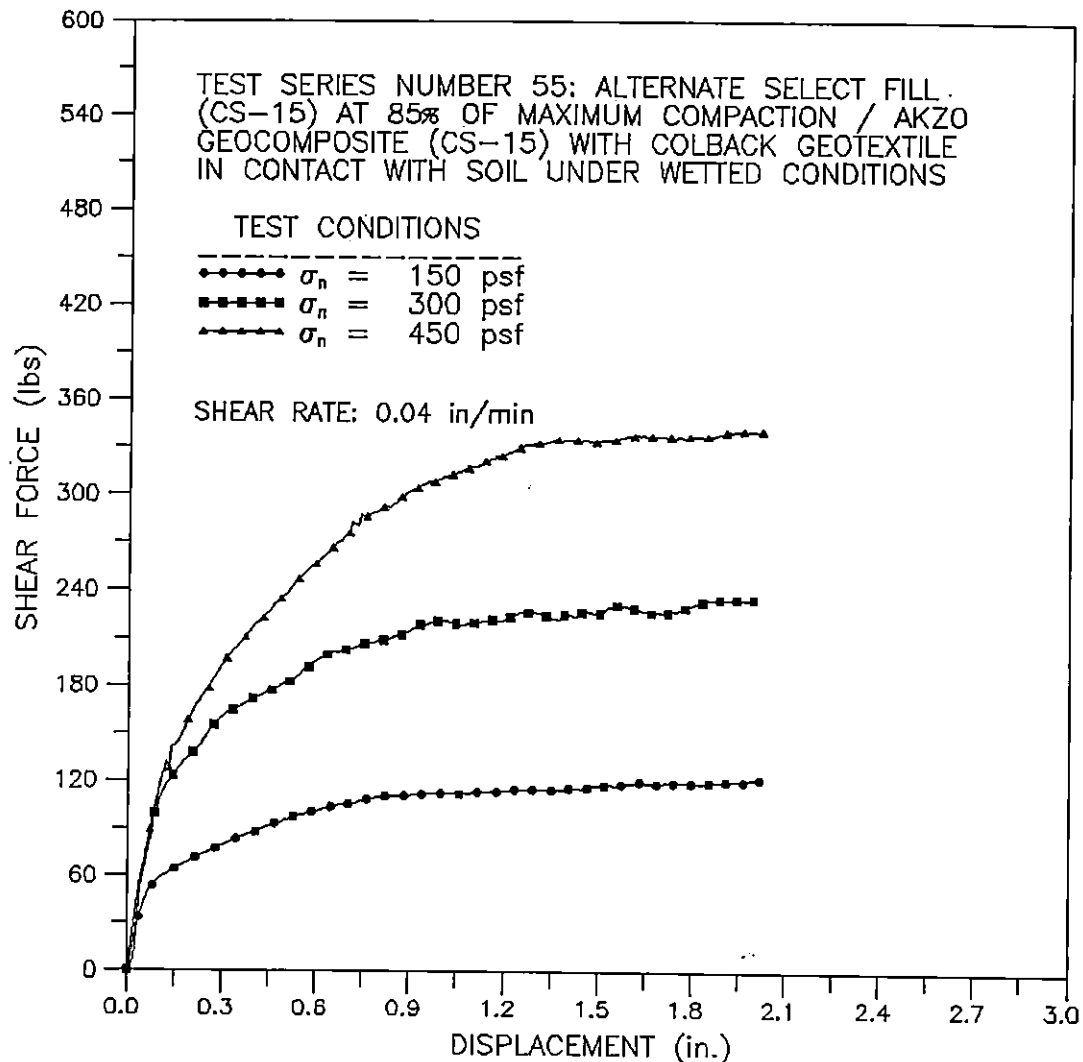
FIGURE NO. D-28

PROJECT NO. GQ3700-03

DOCUMENT NO. SG196084

FILE NO.

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The shear box size was 12 in. by 12 in.(300 mm by 300 mm), and the contact area remained constant throughout the entire test.

DATE TESTED: 7 SEPTEMBER 1995



GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

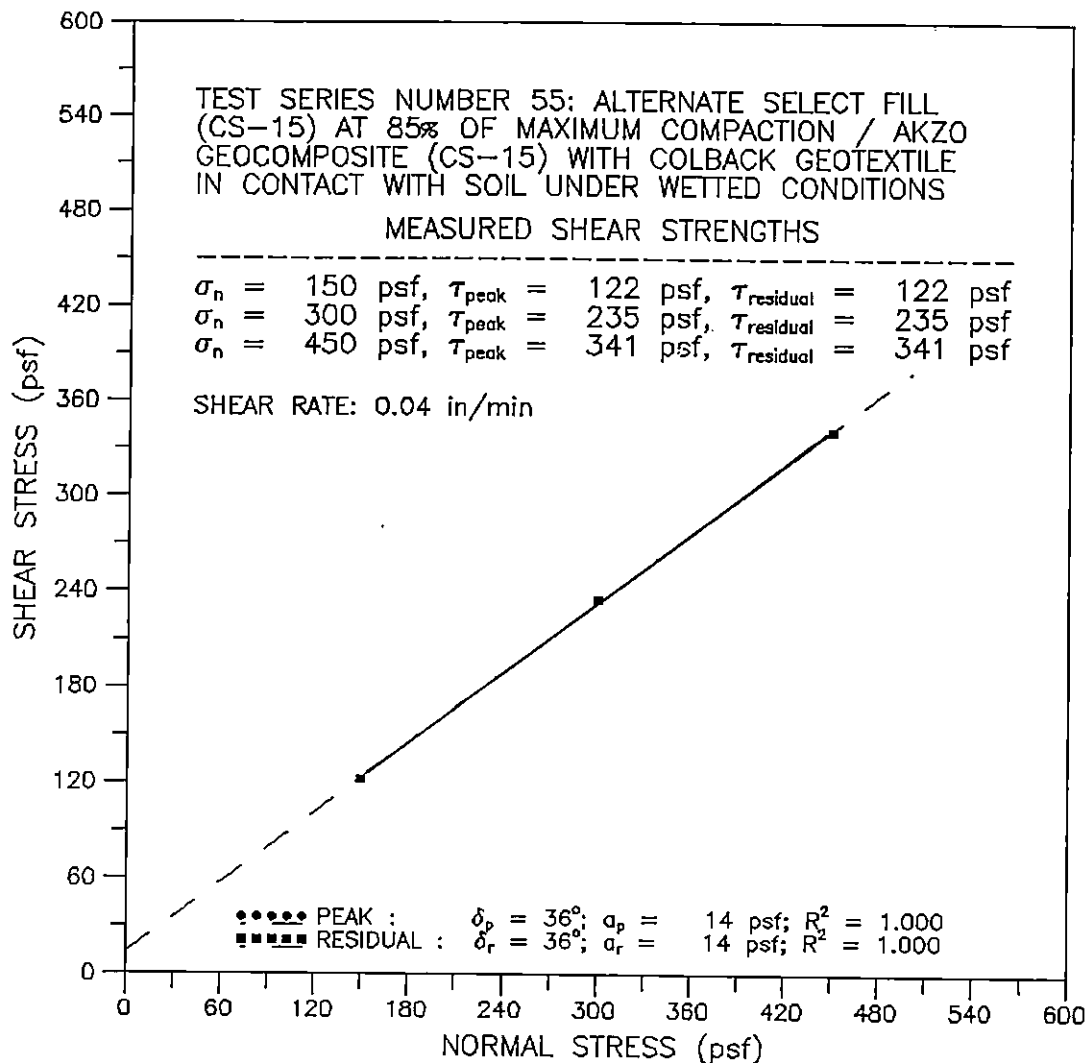
FIGURE NO. D-29

PROJECT NO. GQ3700-03

DOCUMENT NO. SGI96084

FILE NO.

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The reported value of adhesion may not be the true adhesion of the interface, and caution should be exercised in using this adhesion value for applications involving normal stresses outside the range of stresses covered by the test.

DATE TESTED: 7 SEPTEMBER 1995



GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

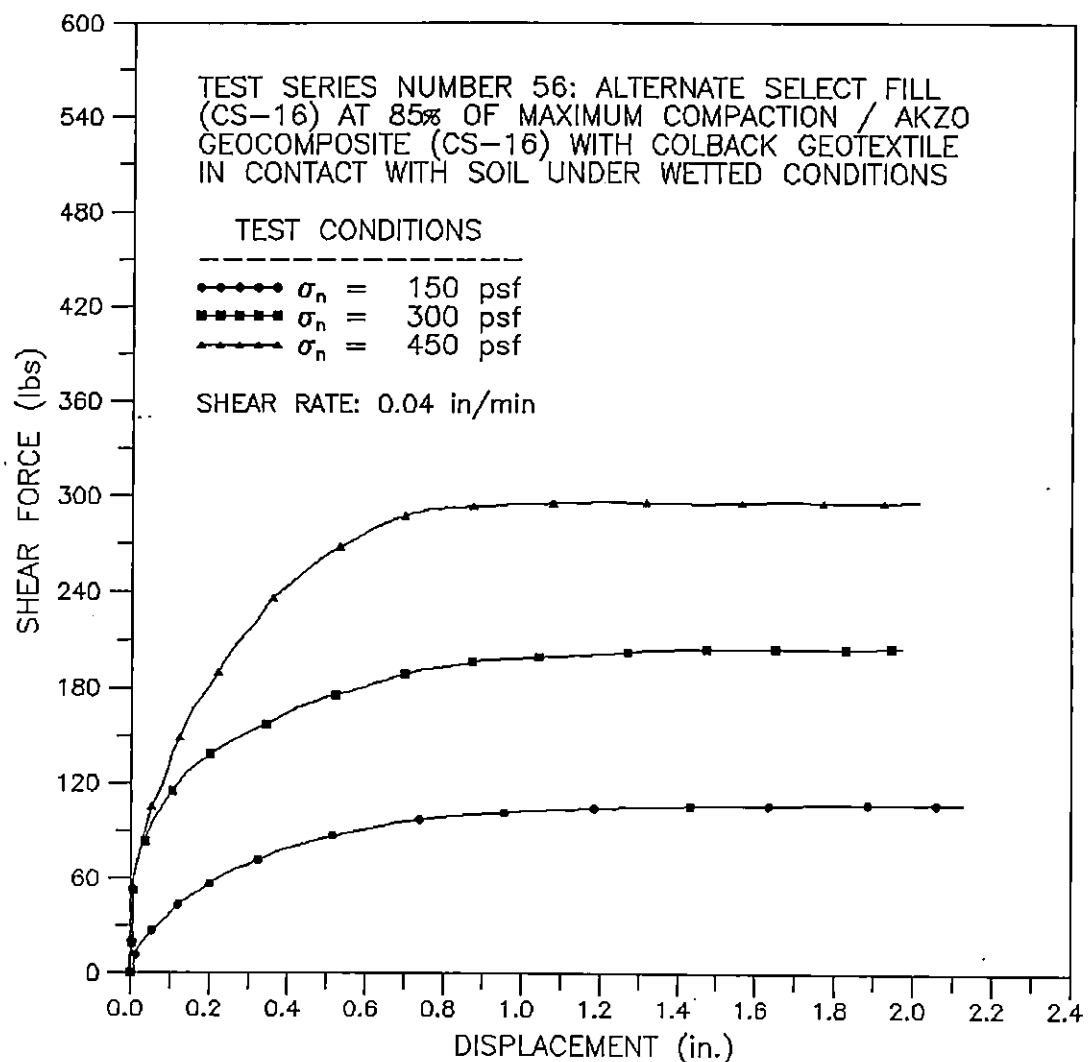
FIGURE NO. D-30

PROJECT NO. GQ3700-03

DOCUMENT NO. SG196084

FILE NO.

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The shear box size was 12 in. by 12 in. (300 mm by 300 mm), and the contact area remained constant throughout the entire test.

DATE TESTED: 26 SEPTEMBER 1995

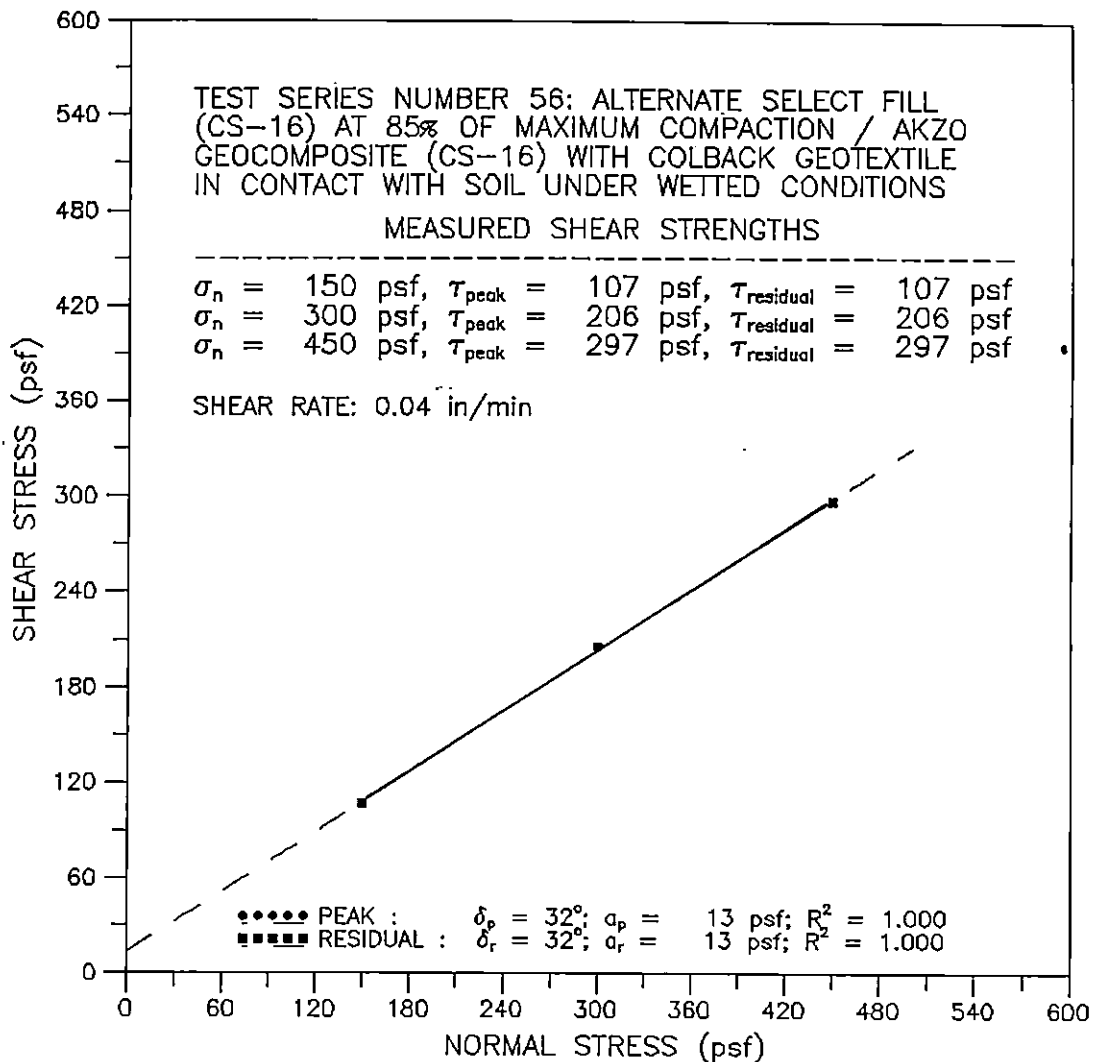


GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.	D-31
PROJECT NO.	GQ3700-03
DOCUMENT NO.	GA95115
FILE NO.	

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL
INTERFACE DIRECT SHEAR TESTING



NOTE: The reported value of adhesion may not be the true adhesion of the interface, and caution should be exercised in using this adhesion value for applications involving normal stresses outside the range of stresses covered by the test.

DATE TESTED: 26 SEPTEMBER 1995

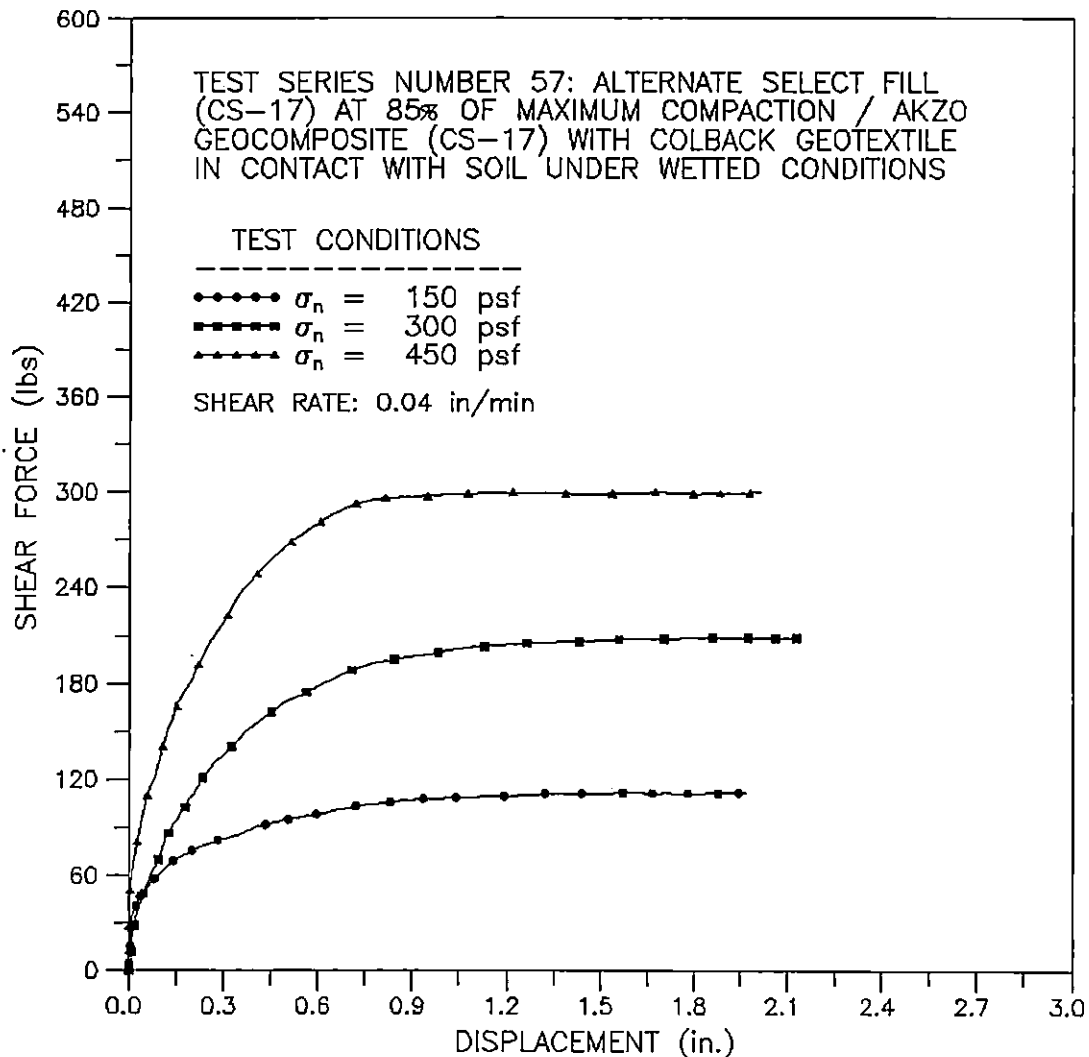


GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.	D-32
PROJECT NO.	GQ3700-03
DOCUMENT NO.	SGI96084
FILE NO.	

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The shear box size was 12 in. by 12 in. (300 mm by 300 mm), and the contact area remained constant throughout the entire test.

DATE TESTED: 27 SEPTEMBER 1995



GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

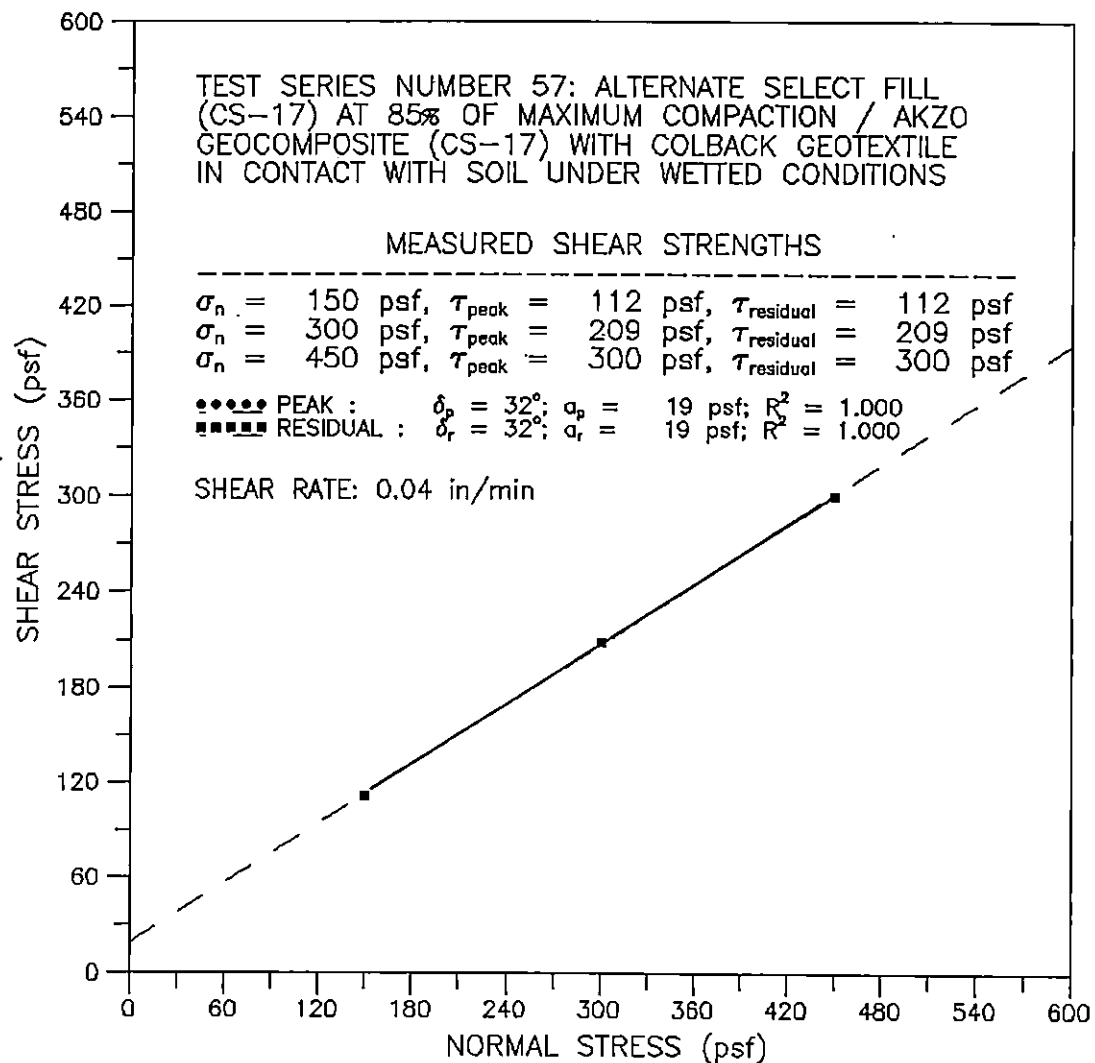
FIGURE NO. D-33

PROJECT NO. GQ3700-03

DOCUMENT NO. SGI96084

FILE NO.

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL
INTERFACE DIRECT SHEAR TESTING



NOTE: The reported value of adhesion may not be the true adhesion of the interface, and caution should be exercised in using this adhesion value for applications involving normal stresses outside the range of stresses covered by the test.

DATE TESTED: 27 SEPTEMBER 1995

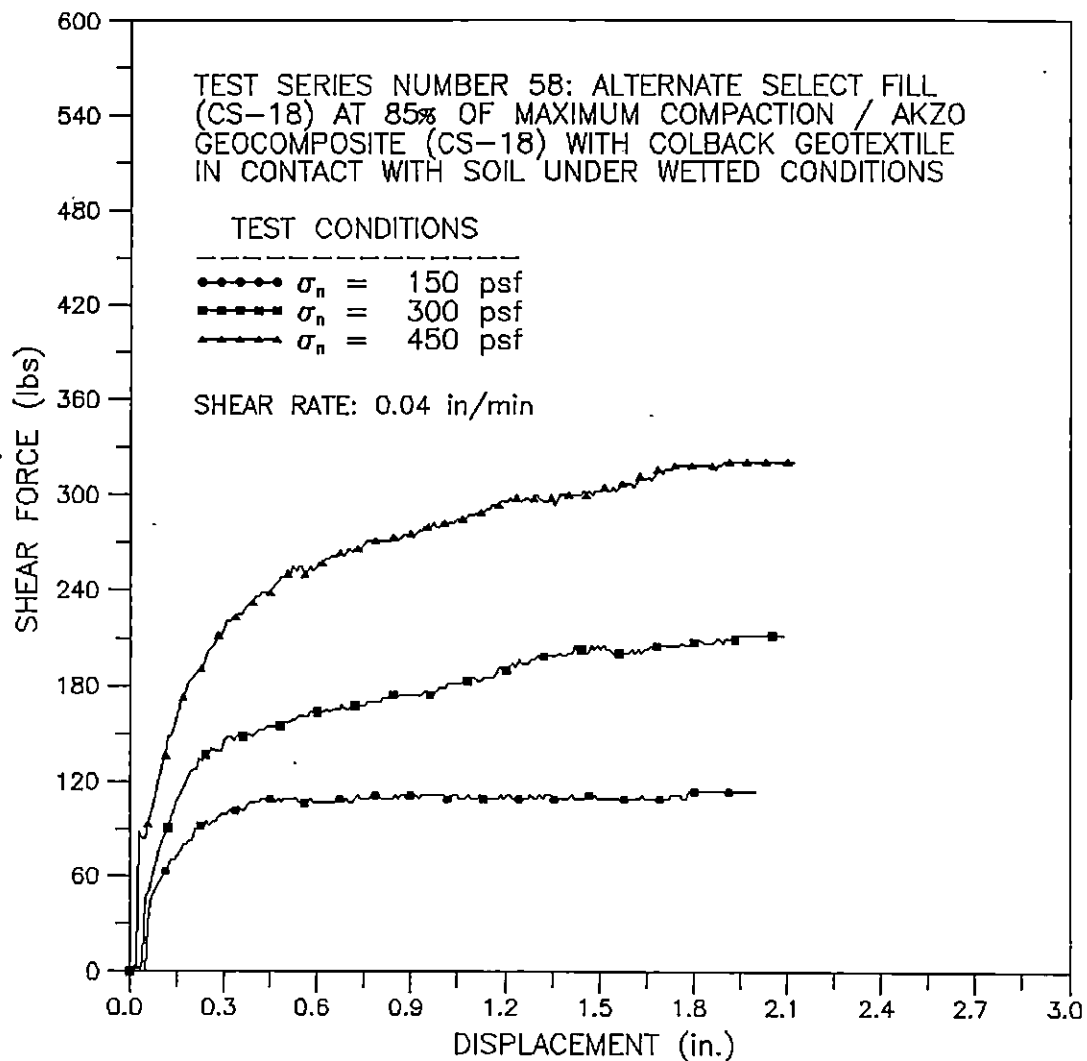


GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.	D-34
PROJECT NO.	GQ3700-03
DOCUMENT NO.	SGI96084
FILE NO.	

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The shear box size was 12 in. by 12 in.(300 mm by 300 mm), and the contact area remained constant throughout the entire test.

DATE TESTED: 28 SEPTEMBER 1995



GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

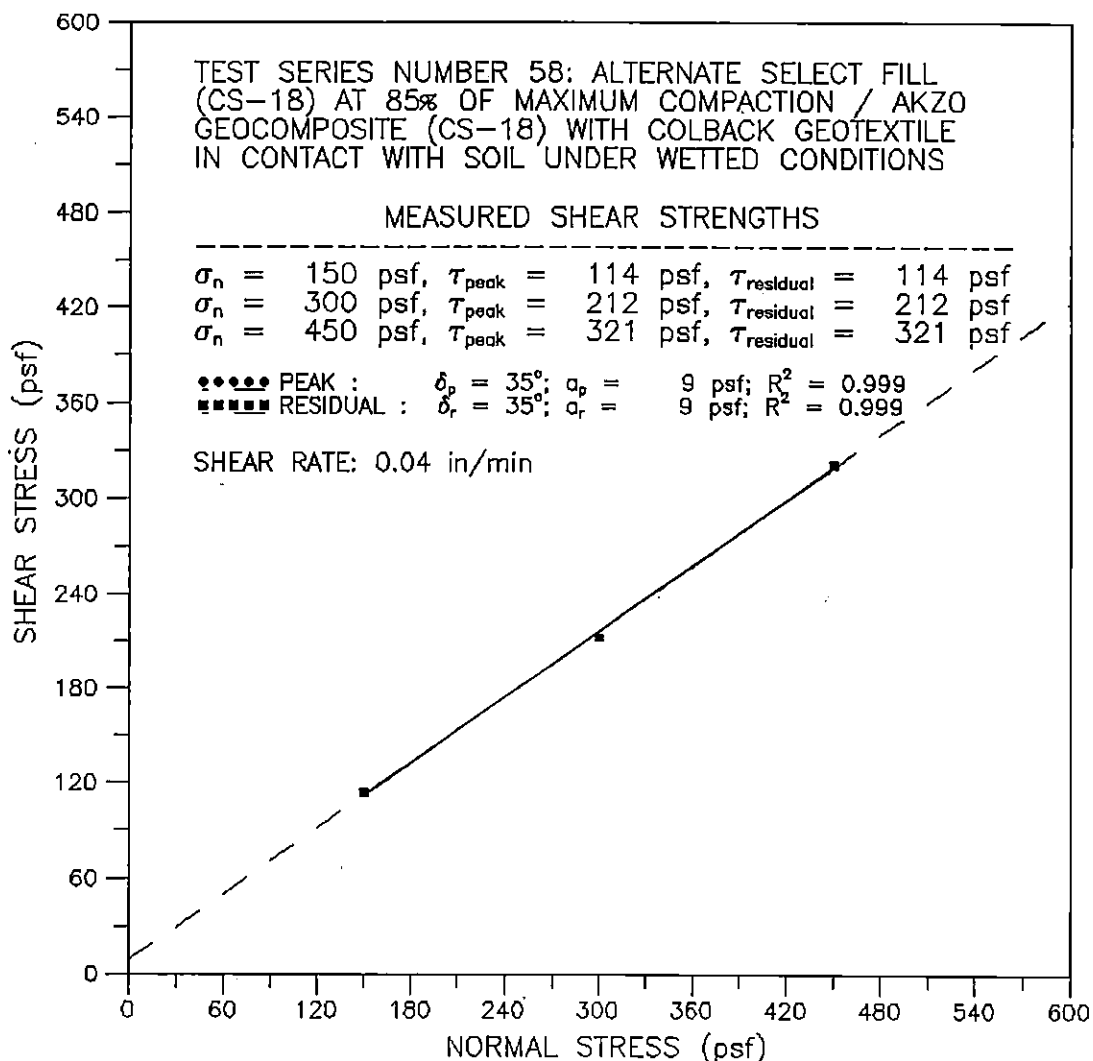
FIGURE NO. D-35

PROJECT NO. GQ3700-03

DOCUMENT NO. SG196084

FILE NO.

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The reported value of adhesion may not be the true adhesion of the interface, and caution should be exercised in using this adhesion value for applications involving normal stresses outside the range of stresses covered by the test.

DATE TESTED: 28 SEPTEMBER 1995



GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

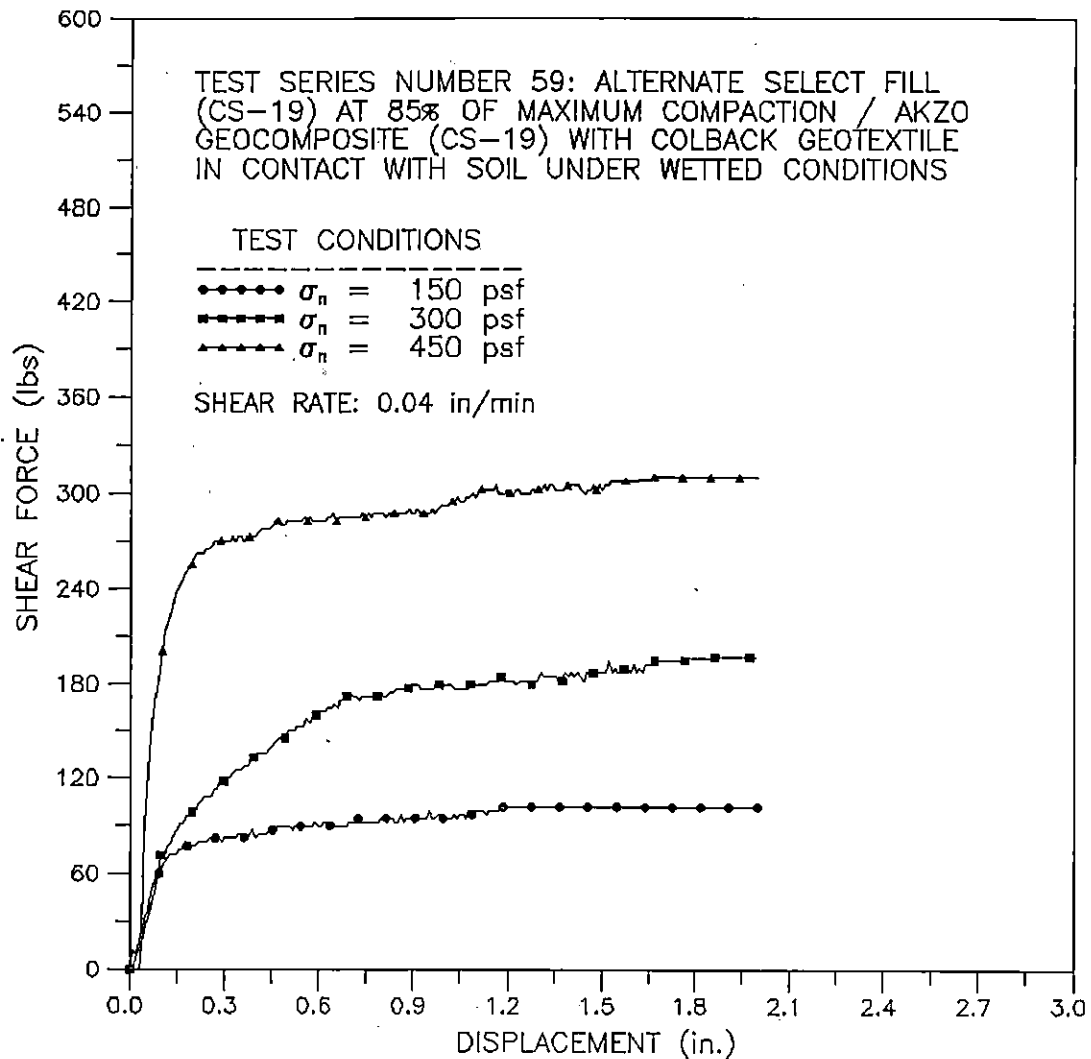
FIGURE NO. D-36

PROJECT NO. GQ3700-03

DOCUMENT NO. SG196084

FILE NO.

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The shear box size was 12 in. by 12 in. (300 mm by 300 mm), and the contact area remained constant throughout the entire test.

DATE TESTED: 29 SEPTEMBER 1995

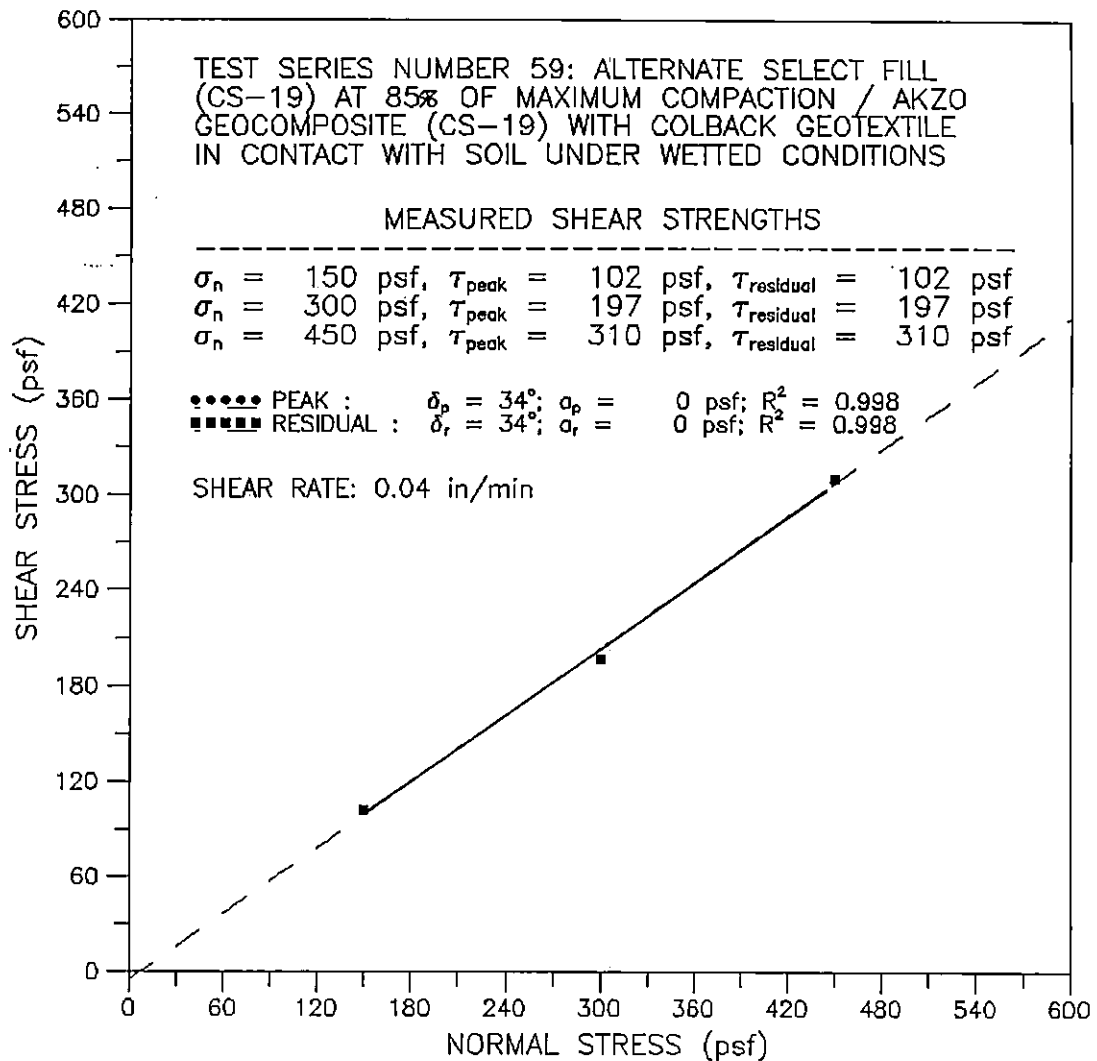


GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.	D-37
PROJECT NO.	GQ3700-03
DOCUMENT NO.	SGI96084
FILE NO.	

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The reported value of adhesion may not be the true adhesion of the interface, and caution should be exercised in using this adhesion value for applications involving normal stresses outside the range of stresses covered by the test.

DATE TESTED: 29 SEPTEMBER 1995



GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

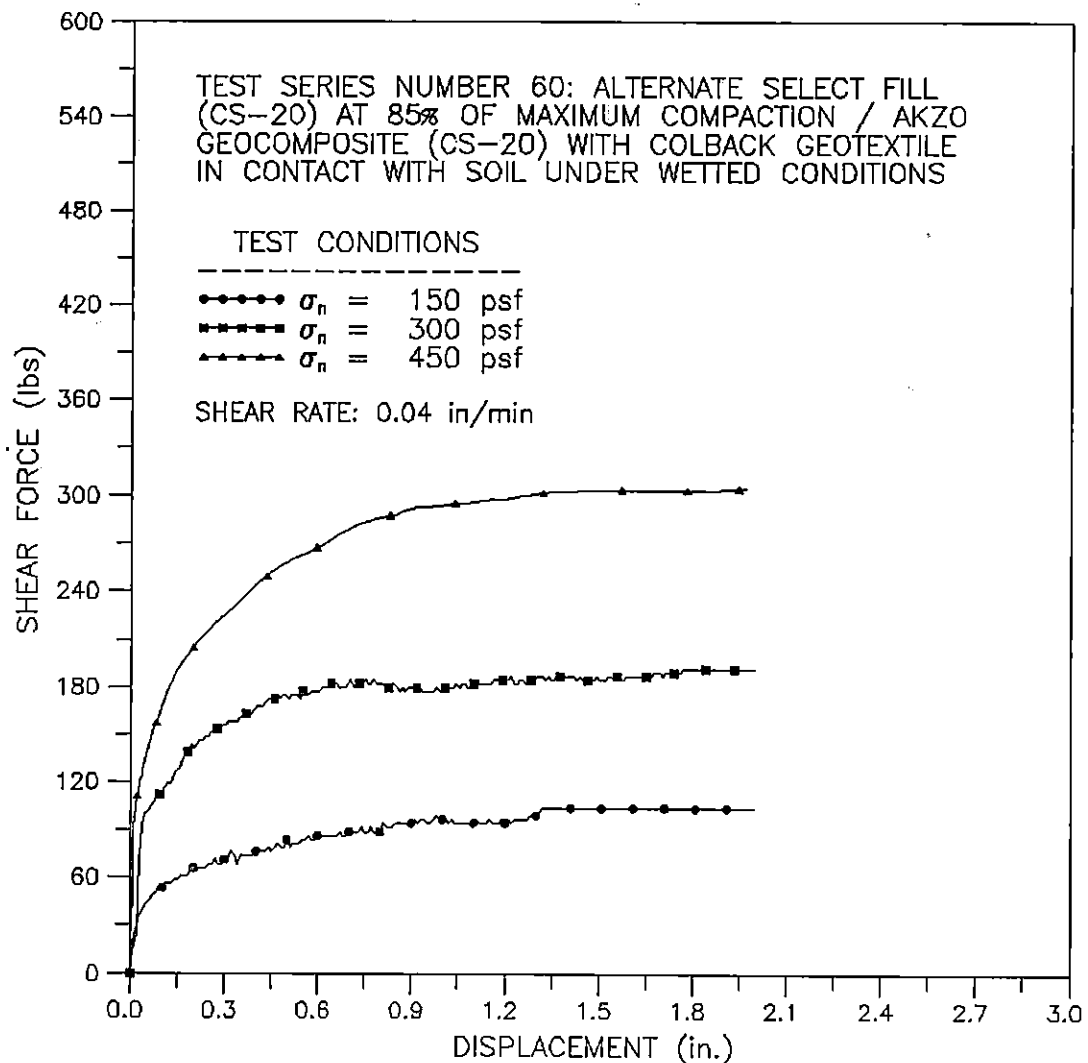
FIGURE NO. D-38

PROJECT NO. GQ3700-03

DOCUMENT NO. SGI96084

FILE NO.

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The shear box size was 12 in. by 12 in. (300 mm by 300 mm), and the contact area remained constant throughout the entire test.

DATE TESTED: 2 OCTOBER 1995

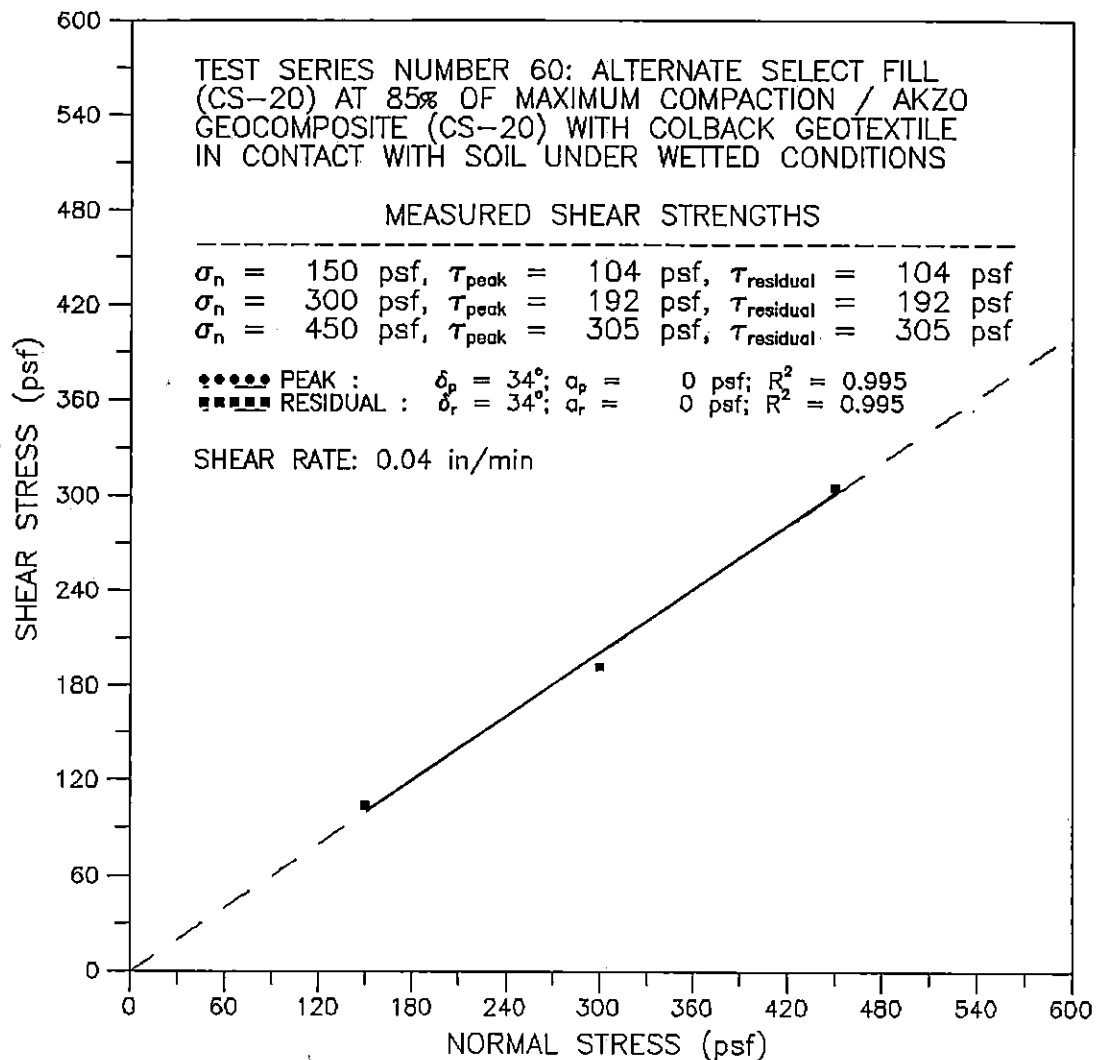


GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.	D-39
PROJECT NO.	GQ3700-03
DOCUMENT NO.	SGI96084
FILE NO.	

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The reported value of adhesion may not be the true adhesion of the interface, and caution should be exercised in using this adhesion value for applications involving normal stresses outside the range of stresses covered by the test.

DATE TESTED: 2 OCTOBER 1995

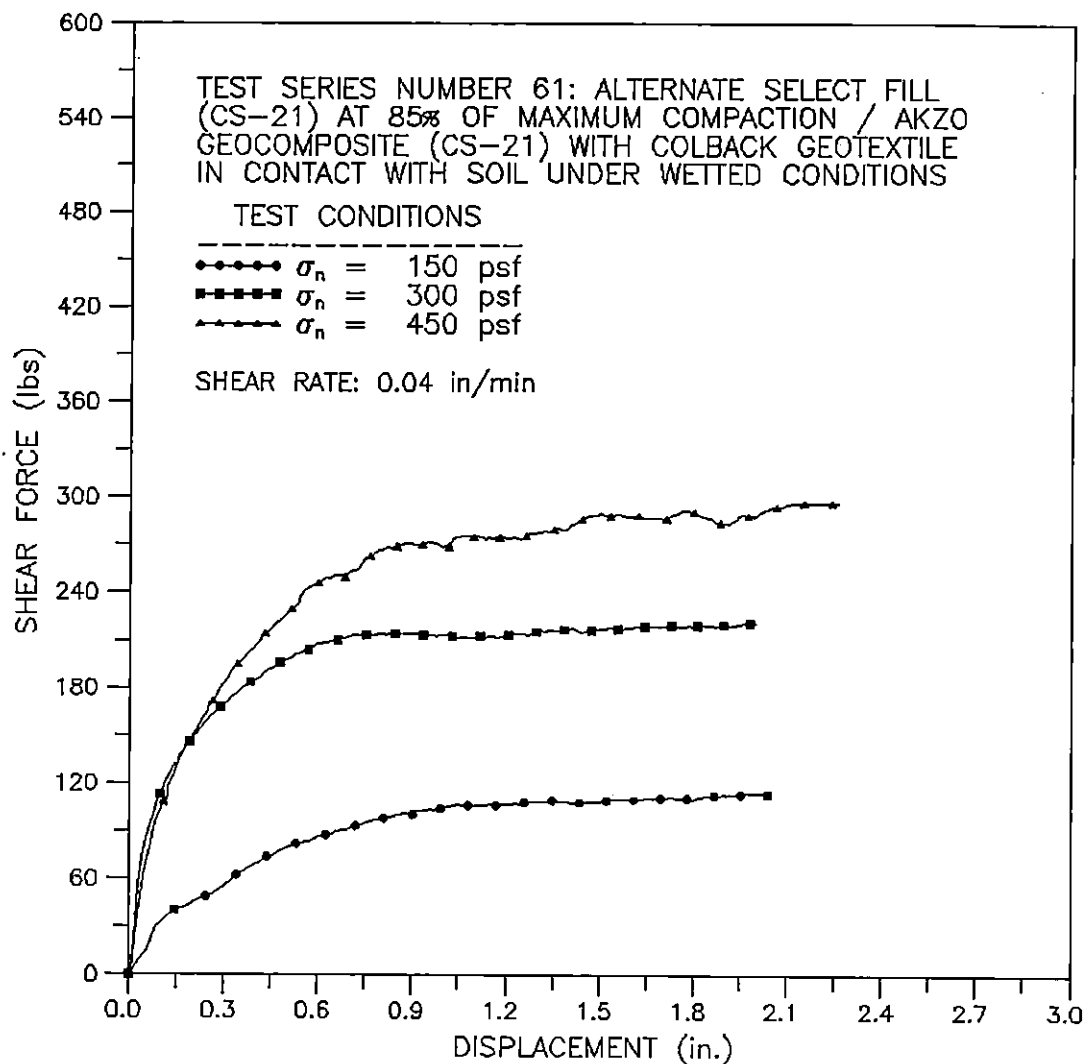


GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.	D-40
PROJECT NO.	GQ3700-03
DOCUMENT NO.	SGI96084
FILE NO.	

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The shear box size was 12 in. by 12 in. (300 mm by 300 mm), and the contact area remained constant throughout the entire test.

DATE TESTED: 3 OCTOBER 1995

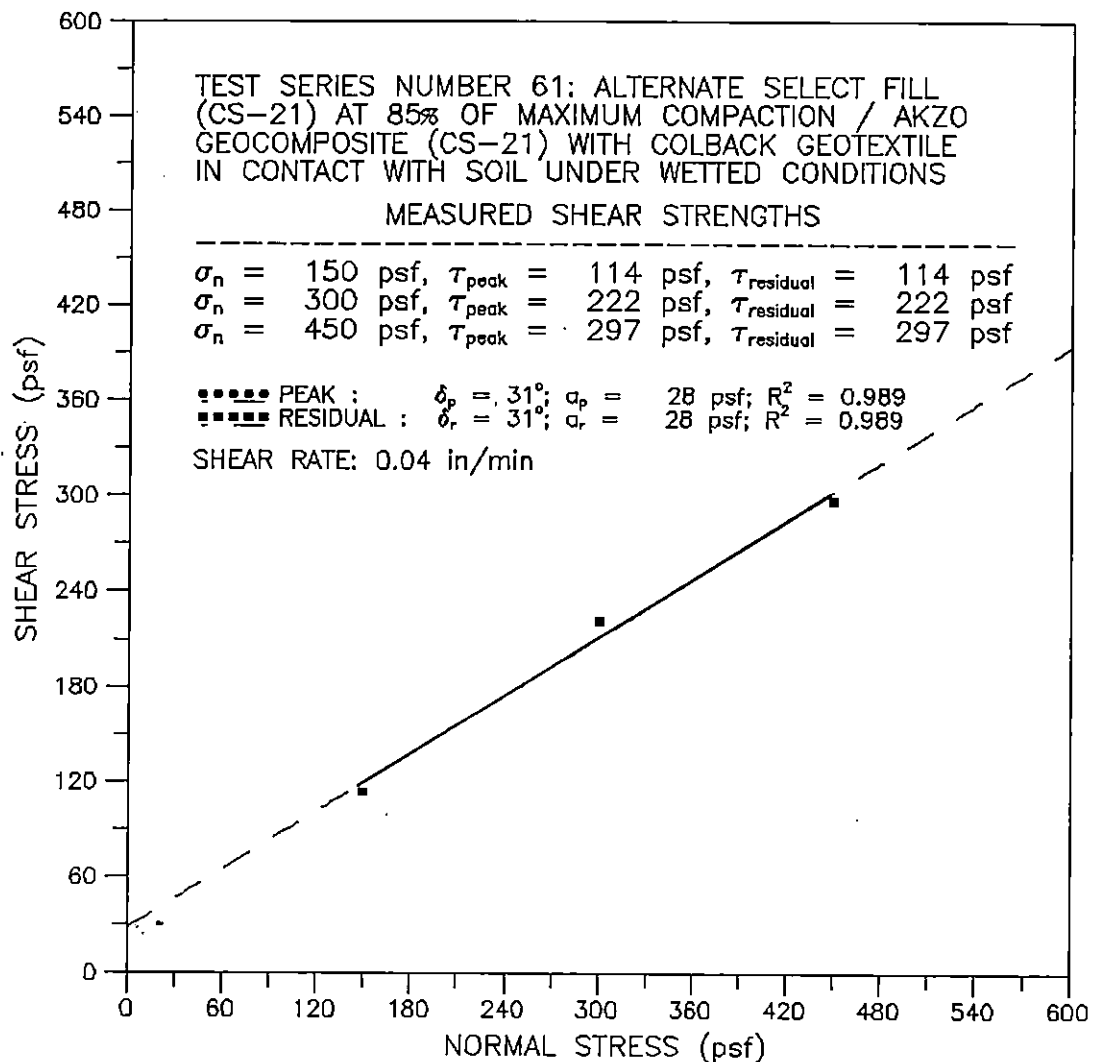


GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.	D-41
PROJECT NO.	GQ3700-03
DOCUMENT NO.	SGI96084
FILE NO.	

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The reported value of adhesion may not be the true adhesion of the interface, and caution should be exercised in using this adhesion value for applications involving normal stresses outside the range of stresses covered by the test.

DATE TESTED: 3 OCTOBER 1995

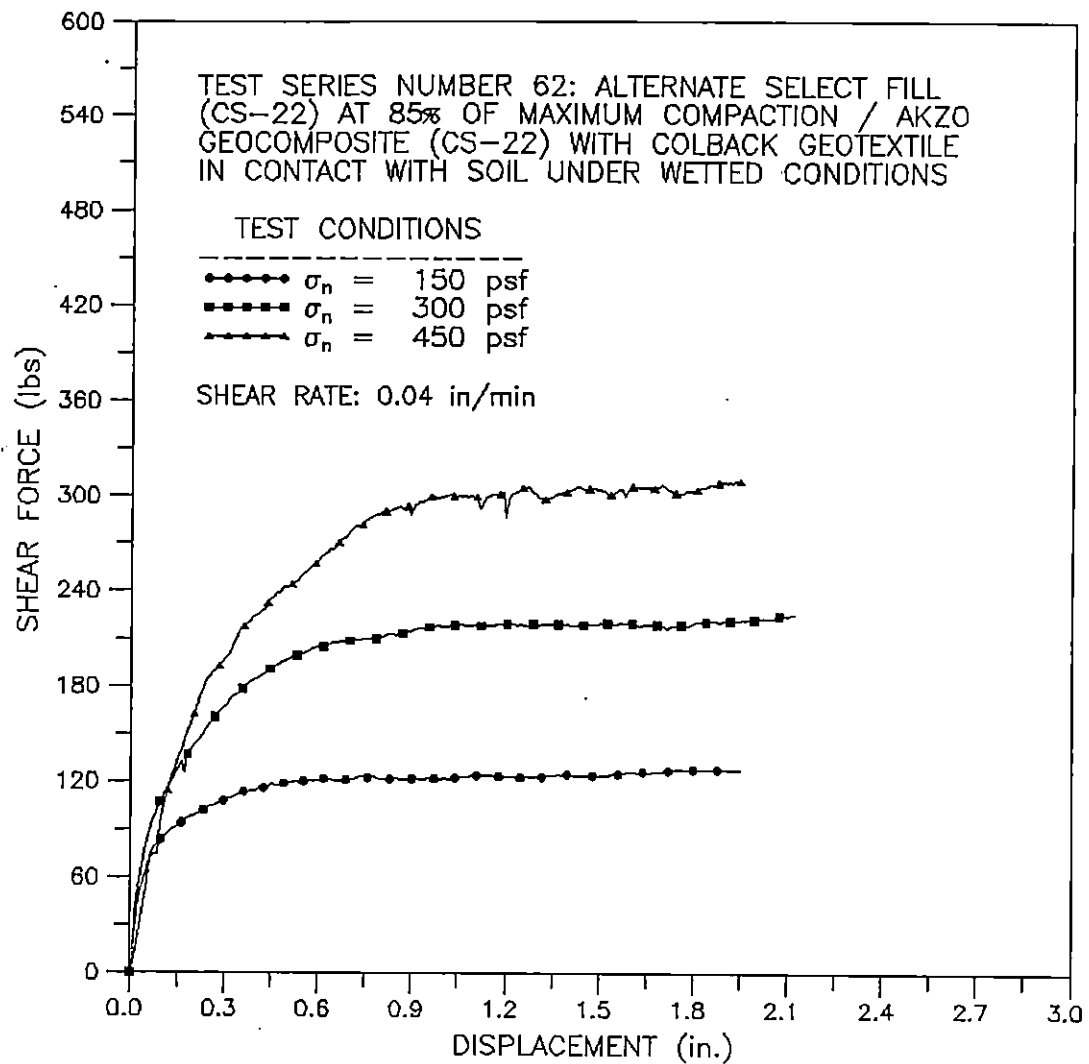


GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.	D-42
PROJECT NO.	GQ3700-03
DOCUMENT NO.	SGI96084
FILE NO.	

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The shear box size was 12 in. by 12 in. (300 mm by 300 mm), and the contact area remained constant throughout the entire test.

DATE TESTED: 5 OCTOBER 1995



GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

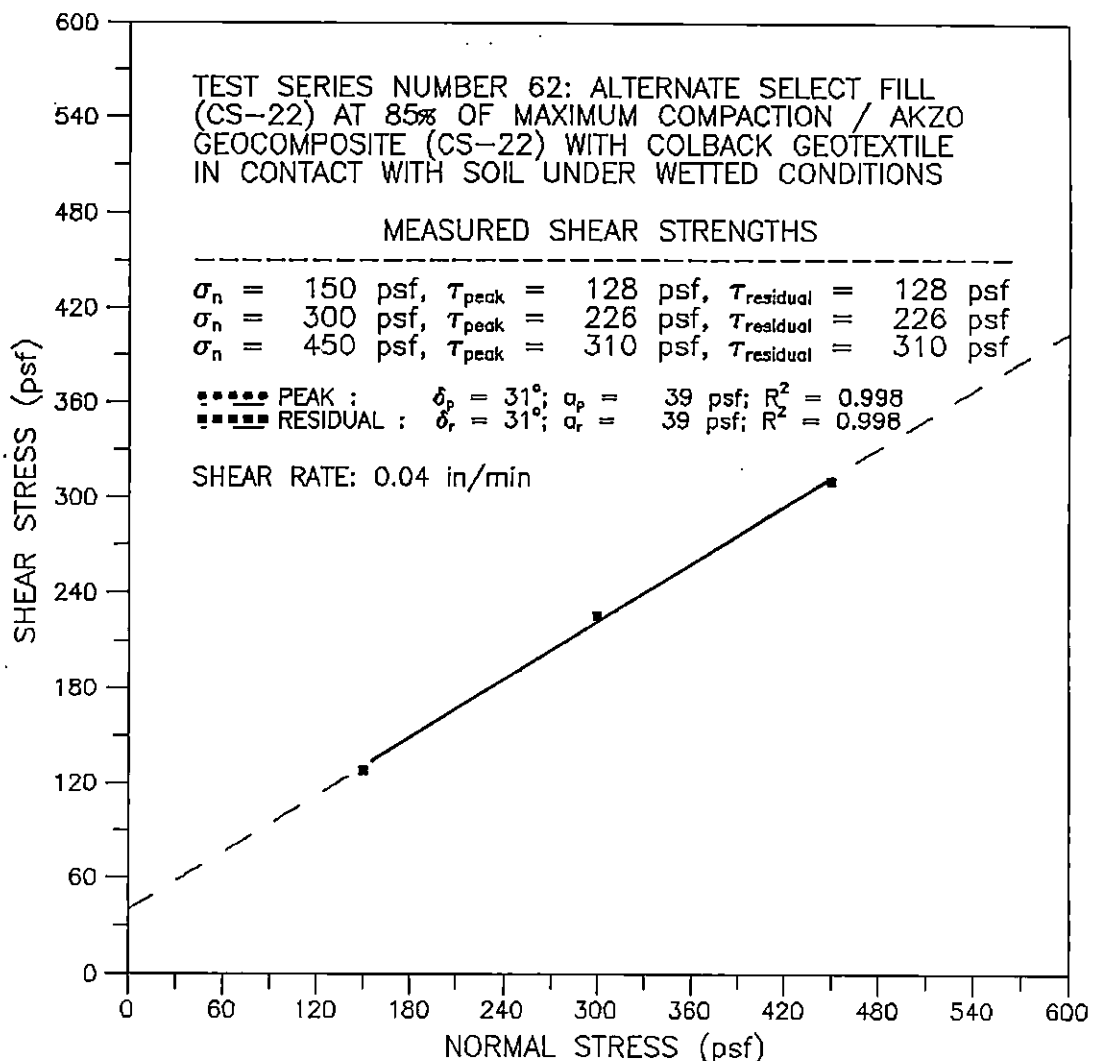
FIGURE NO. D-43

PROJECT NO. GQ3700-03

DOCUMENT NO. SG196084

FILE NO.

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The reported value of adhesion may not be the true adhesion of the interface, and caution should be exercised in using this adhesion value for applications involving normal stresses outside the range of stresses covered by the test.

DATE TESTED: 5 OCTOBER 1995



GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

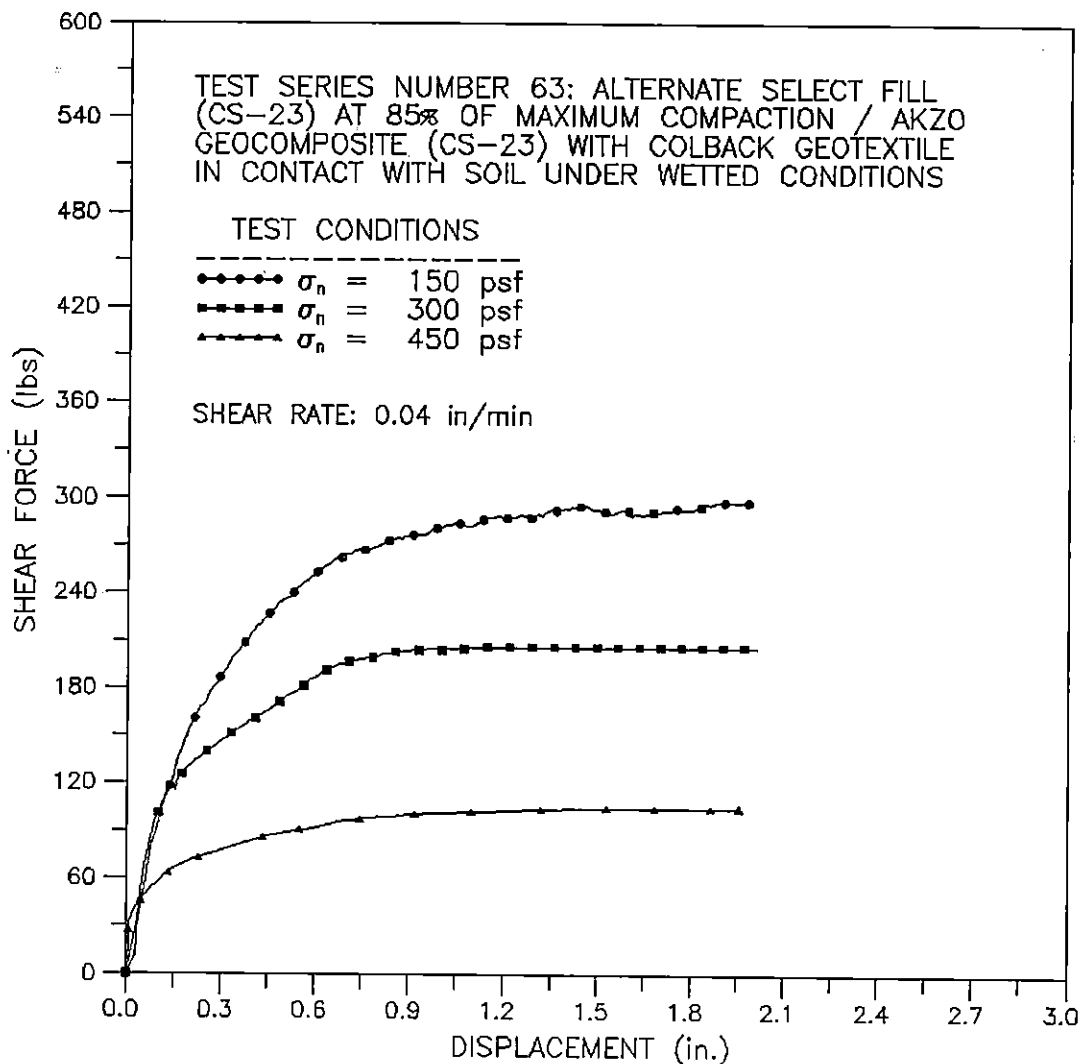
FIGURE NO. D-44

PROJECT NO. GQ3700-03

DOCUMENT NO. SGI96084

FILE NO.

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The shear box size was 12 in. by 12 in. (300 mm by 300 mm), and the contact area remained constant throughout the entire test.

DATE TESTED: 6 OCTOBER 1995

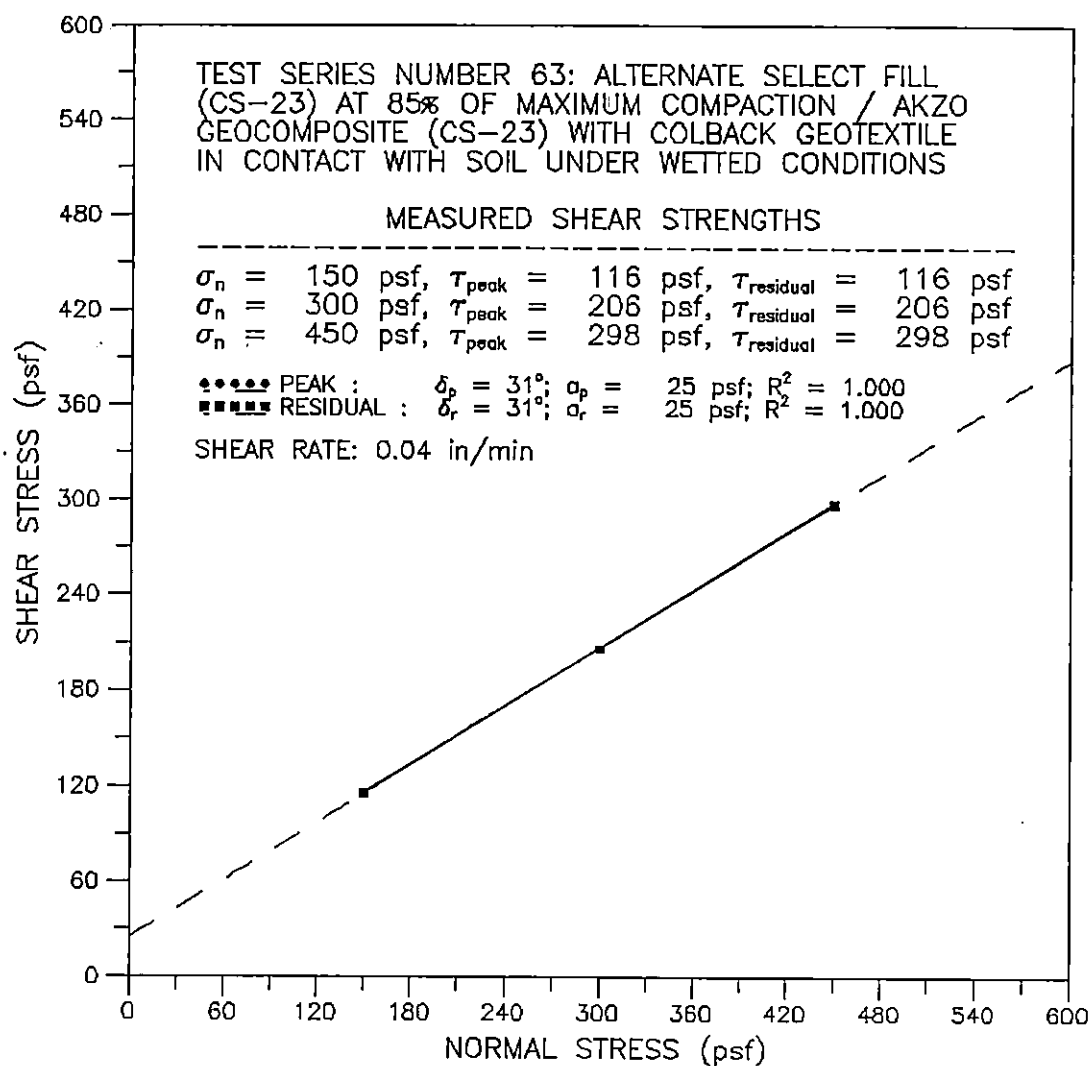


GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.	D-45
PROJECT NO.	GQ3700-03
DOCUMENT NO.	SGI96084
FILE NO.	

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The reported value of adhesion may not be the true adhesion of the interface, and caution should be exercised in using this adhesion value for applications involving normal stresses outside the range of stresses covered by the test.

DATE TESTED: 6 OCTOBER 1996

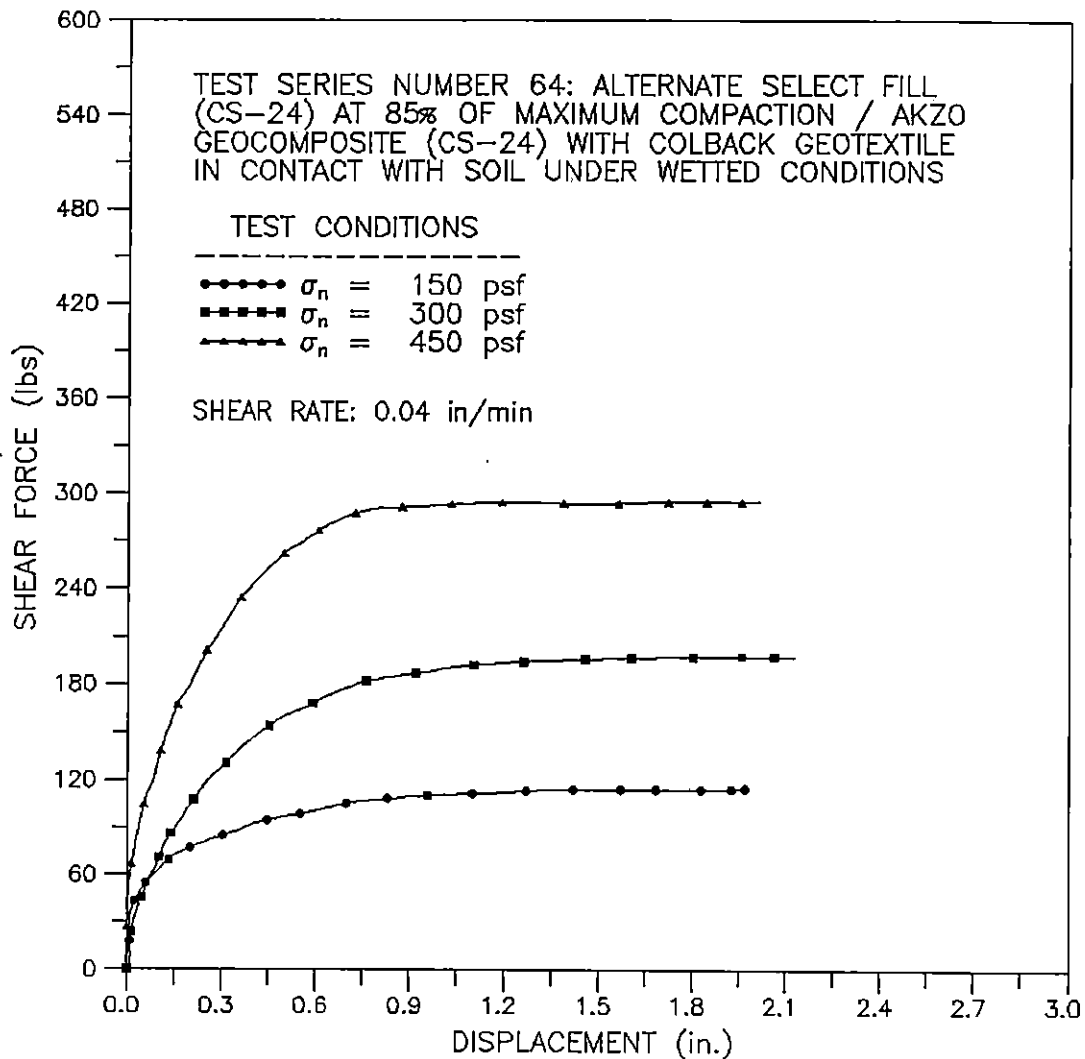


GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.	D-46
PROJECT NO.	GQ3700-03
DOCUMENT NO.	SGI96084
FILE NO.	

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The shear box size was 12 in. by 12 in. (300 mm by 300 mm), and the contact area remained constant throughout the entire test.

DATE TESTED: 10 OCTOBER 1995



GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

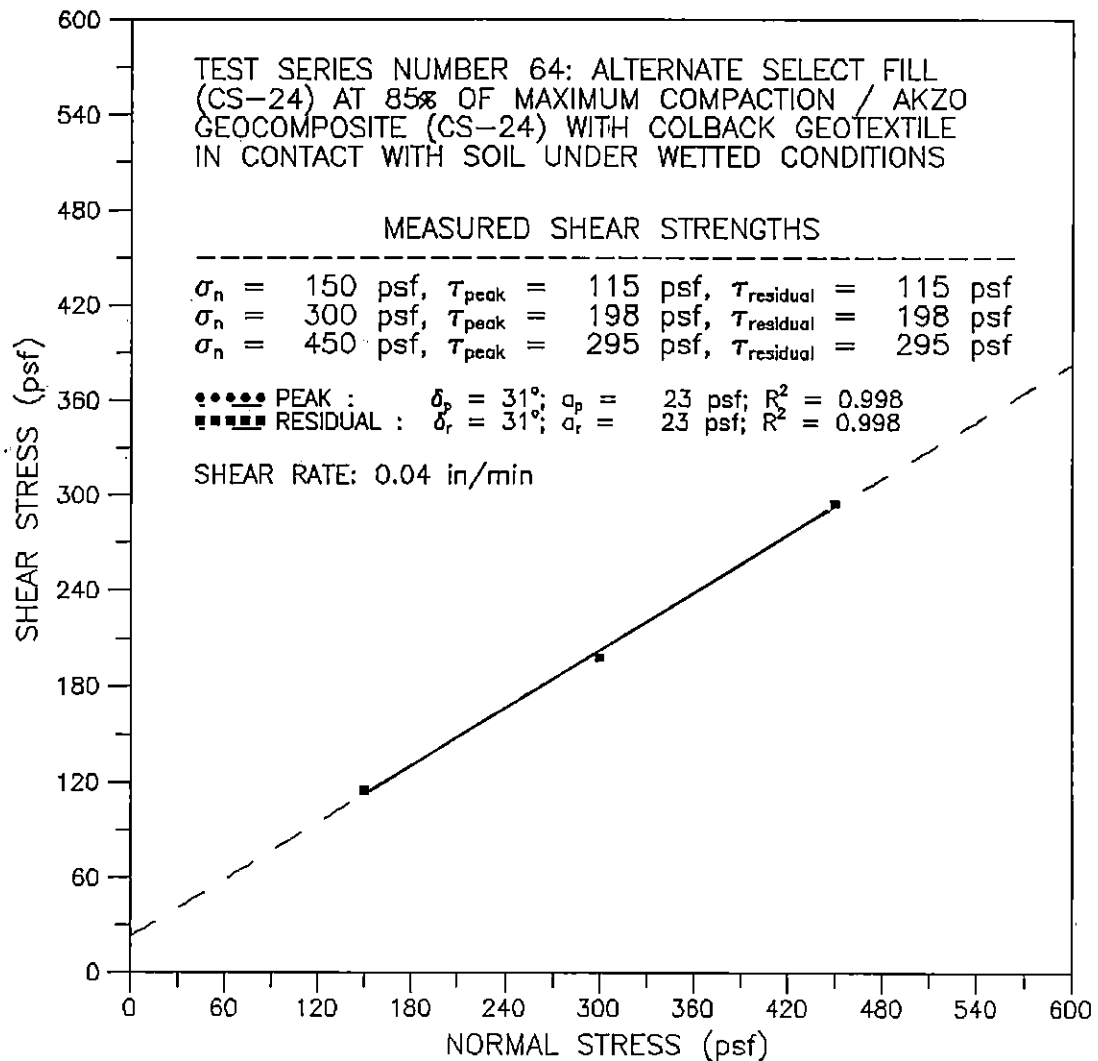
FIGURE NO. D-47

PROJECT NO. GQ3700-03

DOCUMENT NO. SG196084

FILE NO.

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL
INTERFACE DIRECT SHEAR TESTING



NOTE: The reported value of adhesion may not be the true adhesion of the interface, and caution should be exercised in using this adhesion value for applications involving normal stresses outside the range of stresses covered by the test.

DATE TESTED: 10 OCTOBER 1995



GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

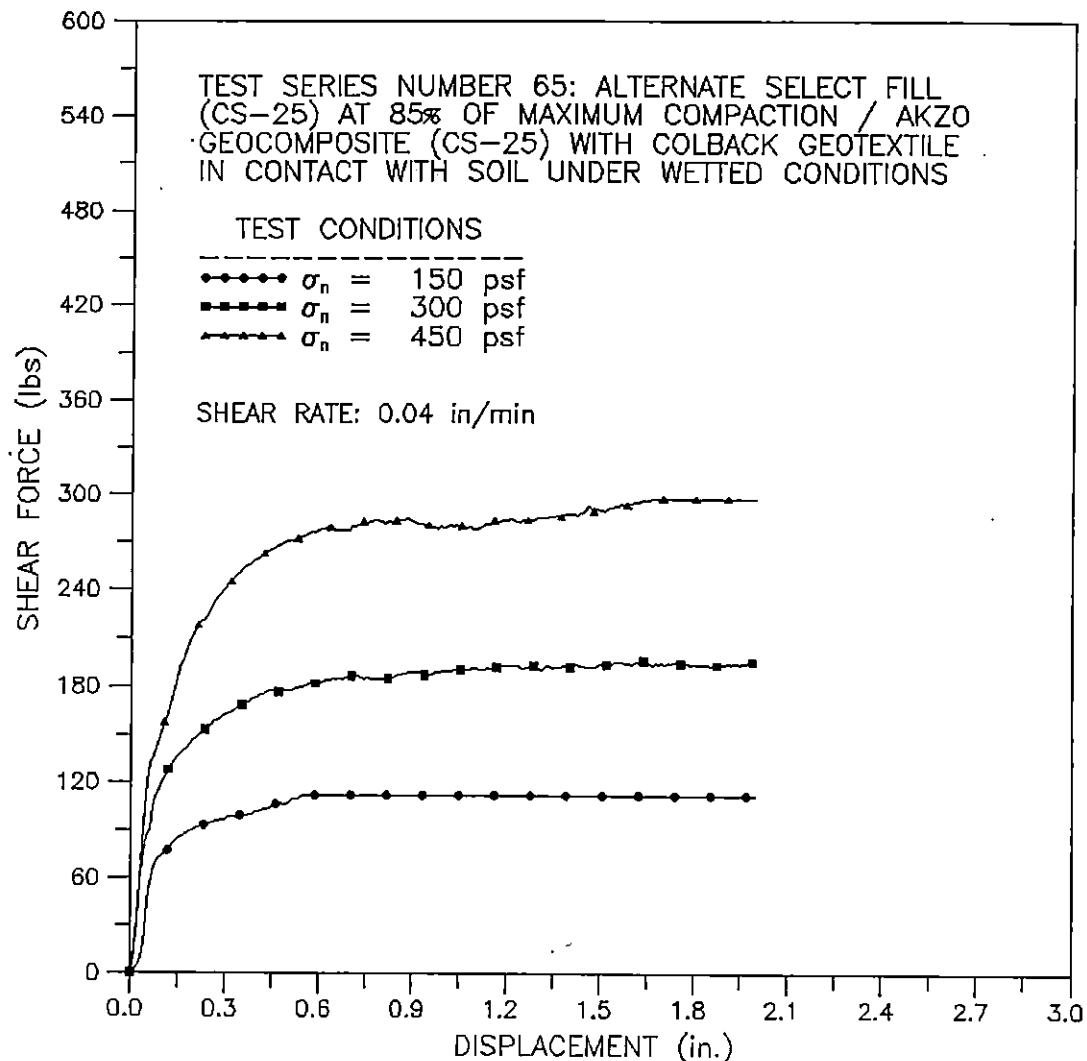
FIGURE NO. D-48

PROJECT NO. GQ3700-03

DOCUMENT NO. SG196084

FILE NO.

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The shear box size was 12 in. by 12 in. (300 mm by 300 mm), and the contact area remained constant throughout the entire test.

DATE TESTED: 11 OCTOBER 1995

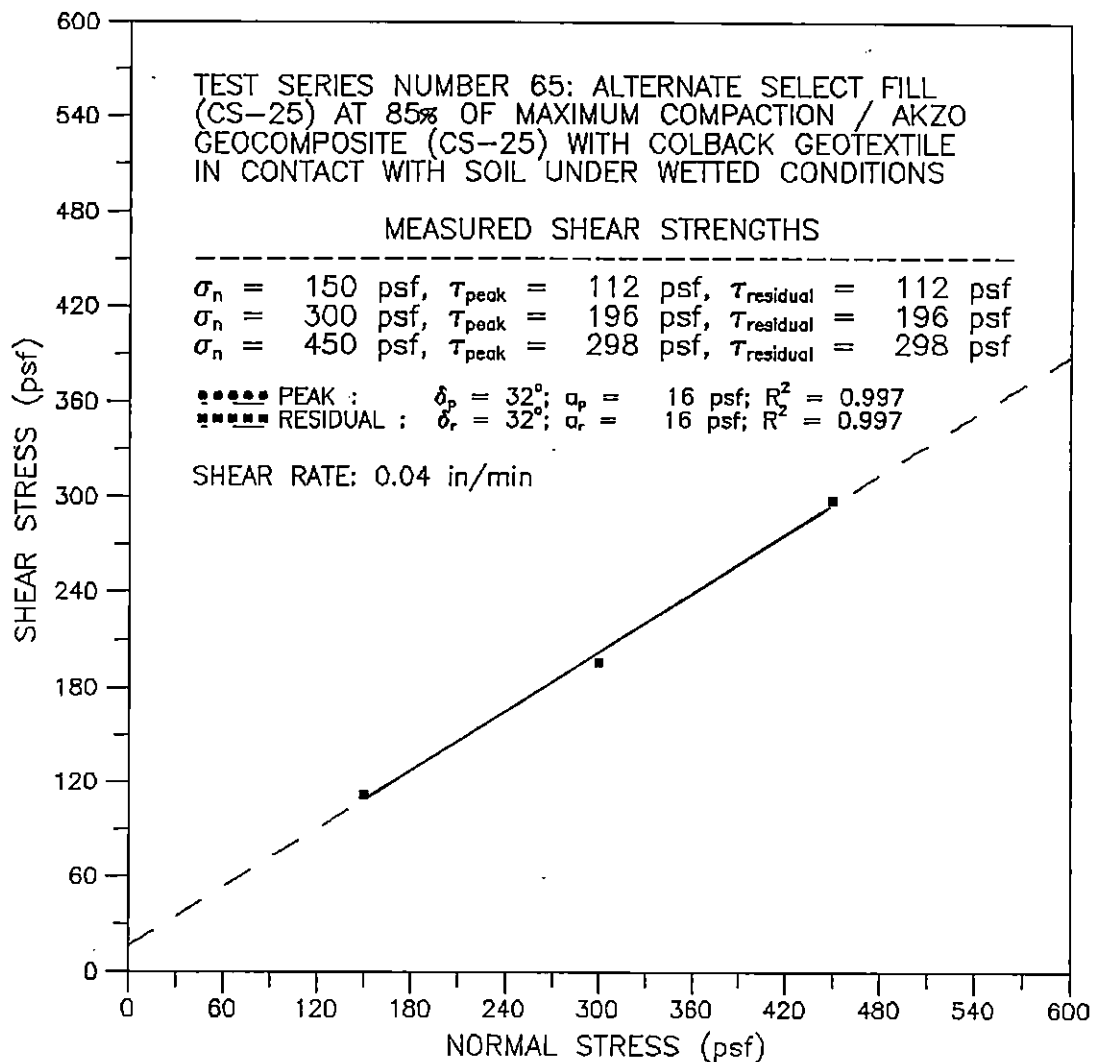


GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.	D-49
PROJECT NO.	GQ3700-03
DOCUMENT NO.	SGI96084
FILE NO.	

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL
INTERFACE DIRECT SHEAR TESTING



NOTE: The reported value of adhesion may not be the true adhesion of the interface, and caution should be exercised in using this adhesion value for applications involving normal stresses outside the range of stresses covered by the test.

DATE TESTED: 11 OCTOBER 1995



GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

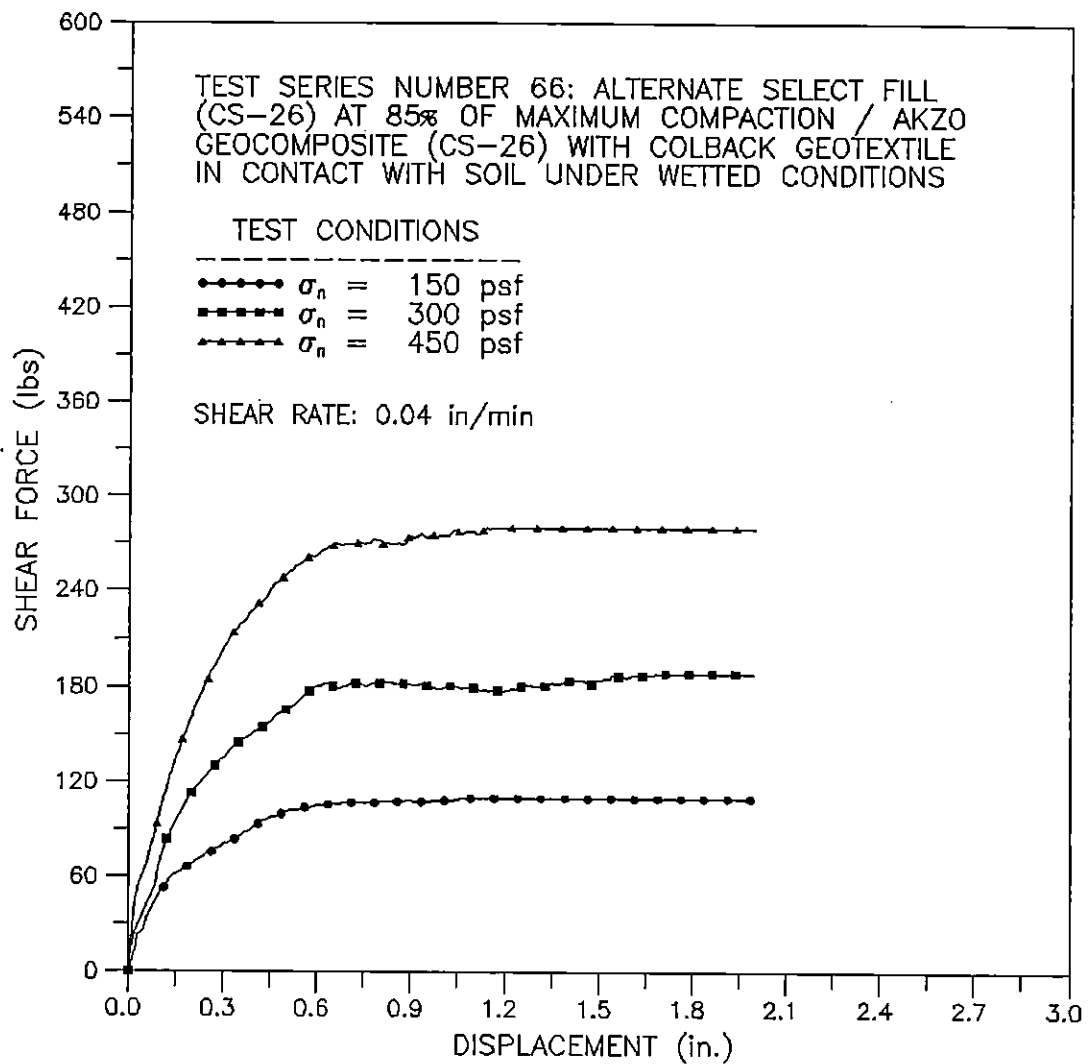
FIGURE NO. D-50

PROJECT NO. GQ3700-03

DOCUMENT NO. SGI96084

FILE NO.

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The shear box size was 12 in. by 12 in. (300 mm by 300 mm), and the contact area remained constant throughout the entire test.

DATE TESTED: 13 OCTOBER 1995

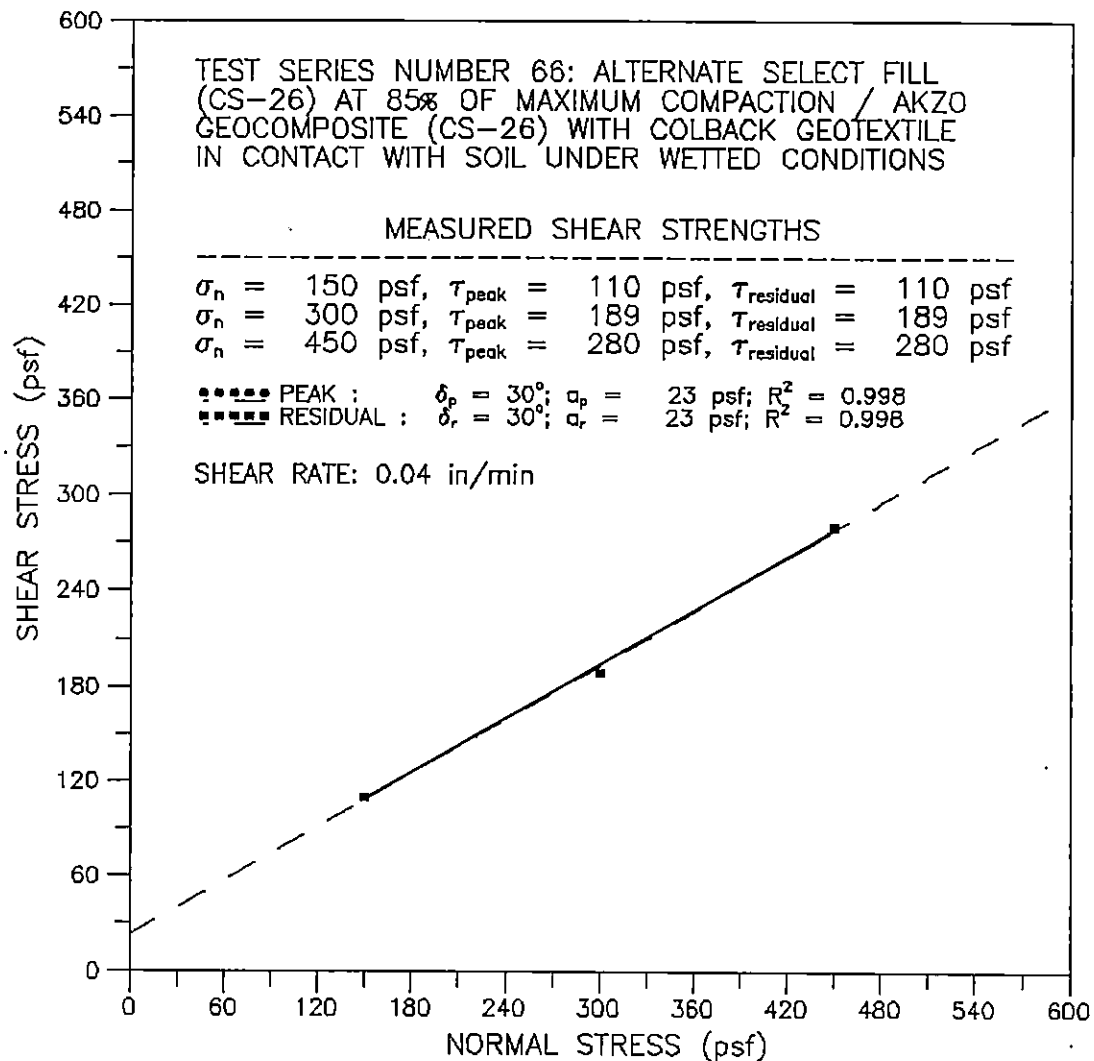


GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.	D-51
PROJECT NO.	GQ3700-03
DOCUMENT NO.	SGI96084
FILE NO.	

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The reported value of adhesion may not be the true adhesion of the interface, and caution should be exercised in using this adhesion value for applications involving normal stresses outside the range of stresses covered by the test.

DATE TESTED: 13 OCTOBER 1995



GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

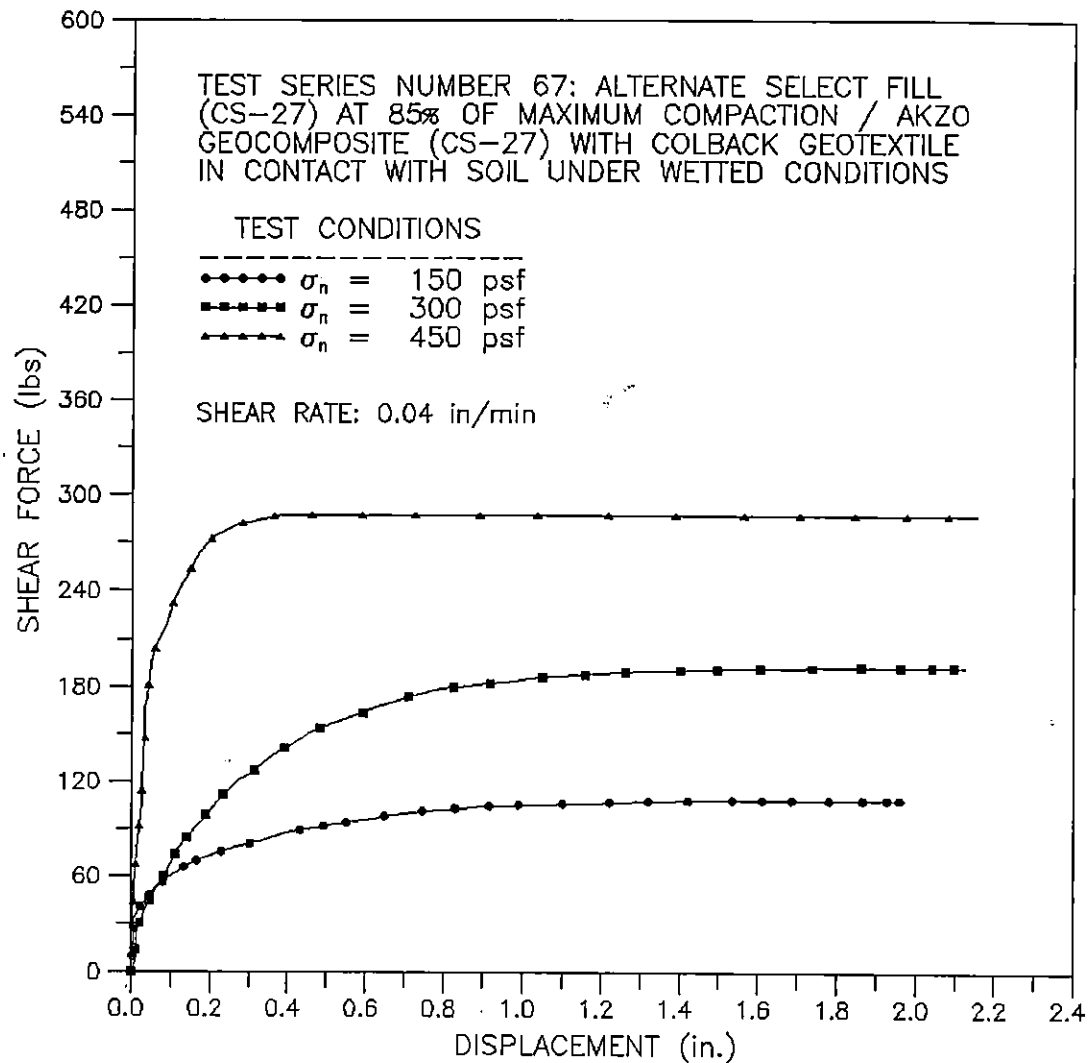
FIGURE NO. D-52

PROJECT NO. GQ3700-03

DOCUMENT NO. SG196084

FILE NO.

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The shear box size was 12 in. by 12 in. (300 mm by 300 mm), and the contact area remained constant throughout the entire test.

DATE TESTED: 13 OCTOBER 1995



GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

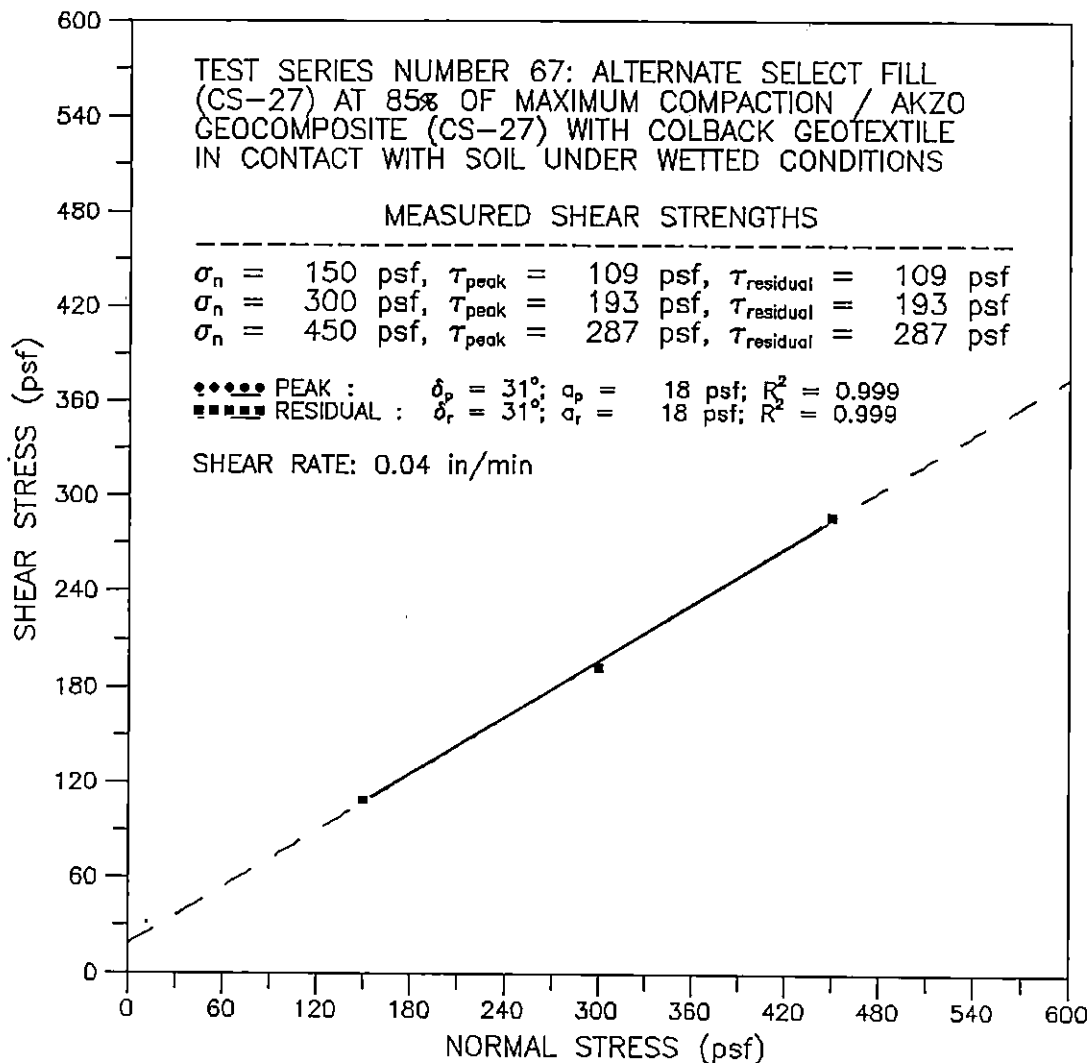
FIGURE NO. D-53

PROJECT NO. GQ3700-03

DOCUMENT NO. SGI96084

FILE NO.

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The reported value of adhesion may not be the true adhesion of the interface, and caution should be exercised in using this adhesion value for applications involving normal stresses outside the range of stresses covered by the test.

DATE TESTED: 13 OCTOBER 1995



GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

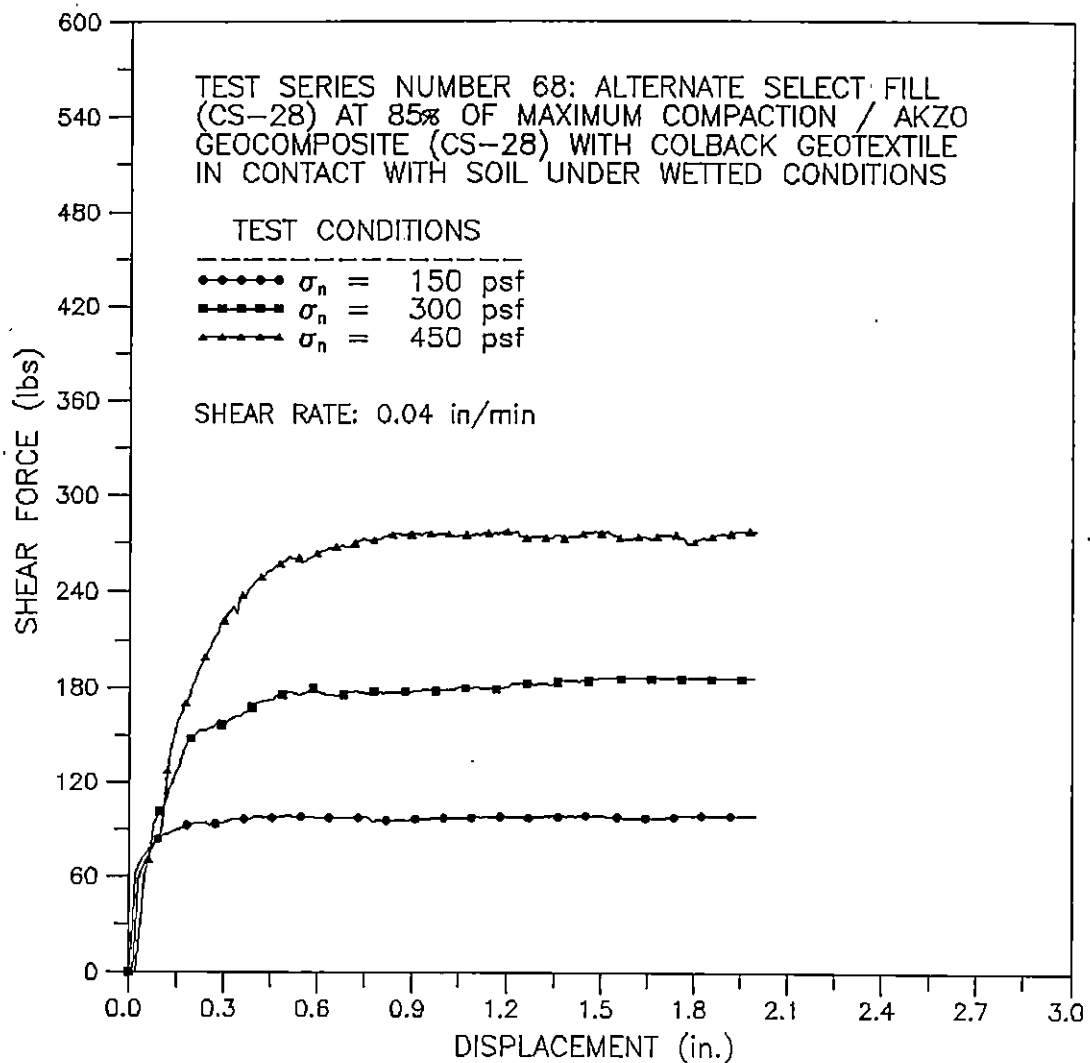
FIGURE NO. D-54

PROJECT NO. GQ3700-03

DOCUMENT NO. SGI96084

FILE NO.

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The shear box size was 12 in. by 12 in. (300 mm by 300 mm), and the contact area remained constant throughout the entire test.

DATE TESTED: 19 OCTOBER 1995



GEO SYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

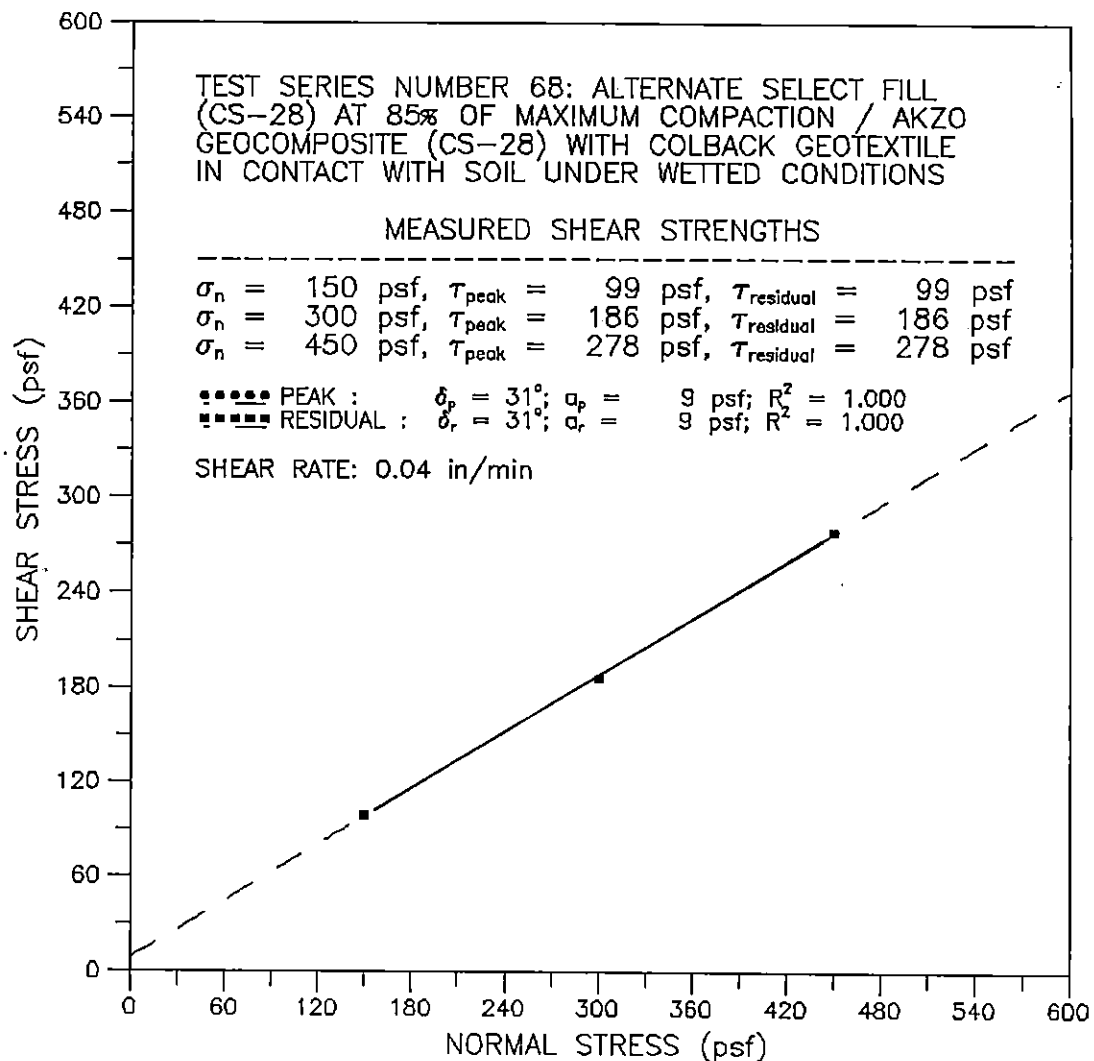
FIGURE NO. D-55

PROJECT NO. GQ3700-03

DOCUMENT NO. SGI96084

FILE NO.

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The reported value of adhesion may not be the true adhesion of the interface, and caution should be exercised in using this adhesion value for applications involving normal stresses outside the range of stresses covered by the test.

DATE TESTED: 19 OCTOBER 1995

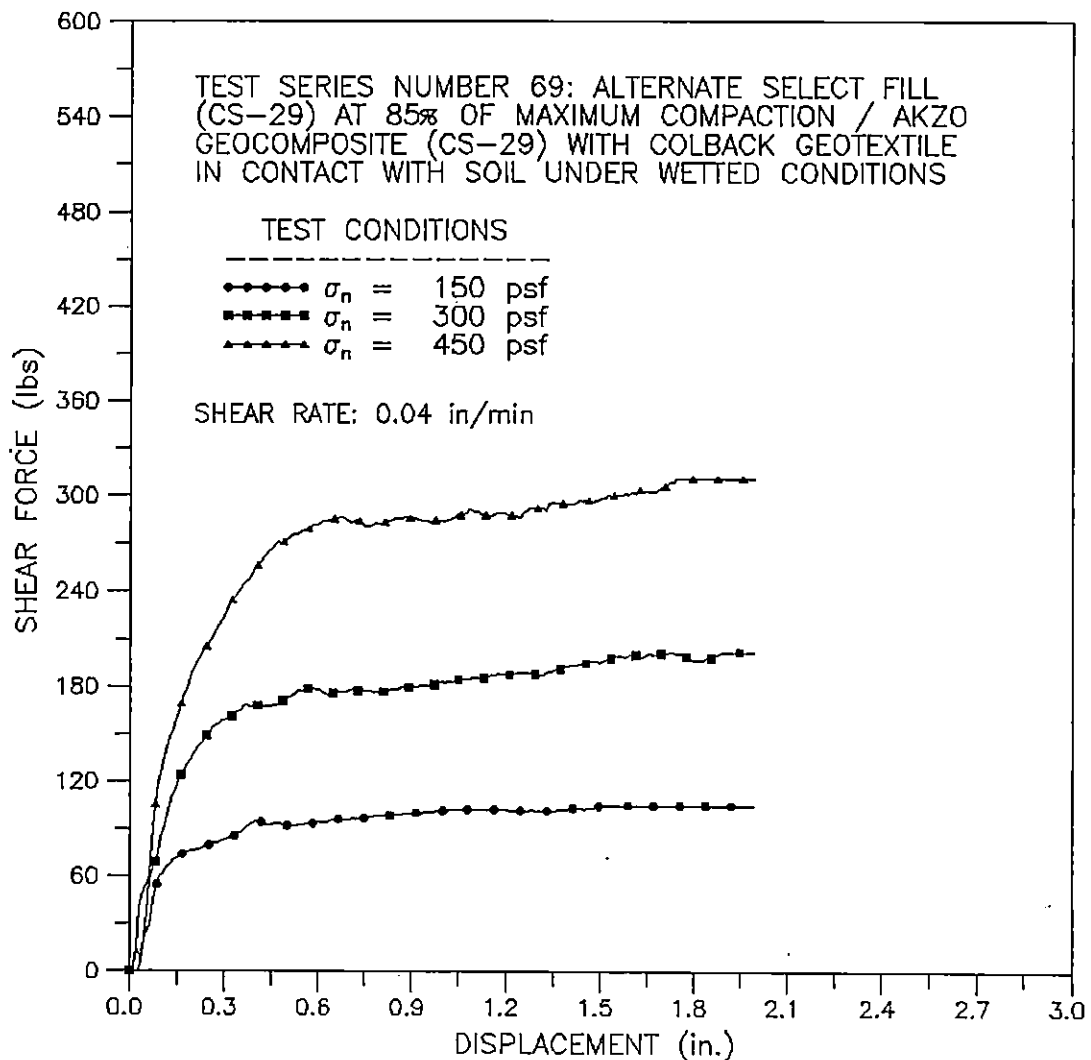


GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.	D-56
PROJECT NO.	GQ3700-03
DOCUMENT NO.	SGI96084
FILE NO.	

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The shear box size was 12 in. by 12 in. (300 mm by 300 mm), and the contact area remained constant throughout the entire test.

DATE TESTED: 20 OCTOBER 1995



GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

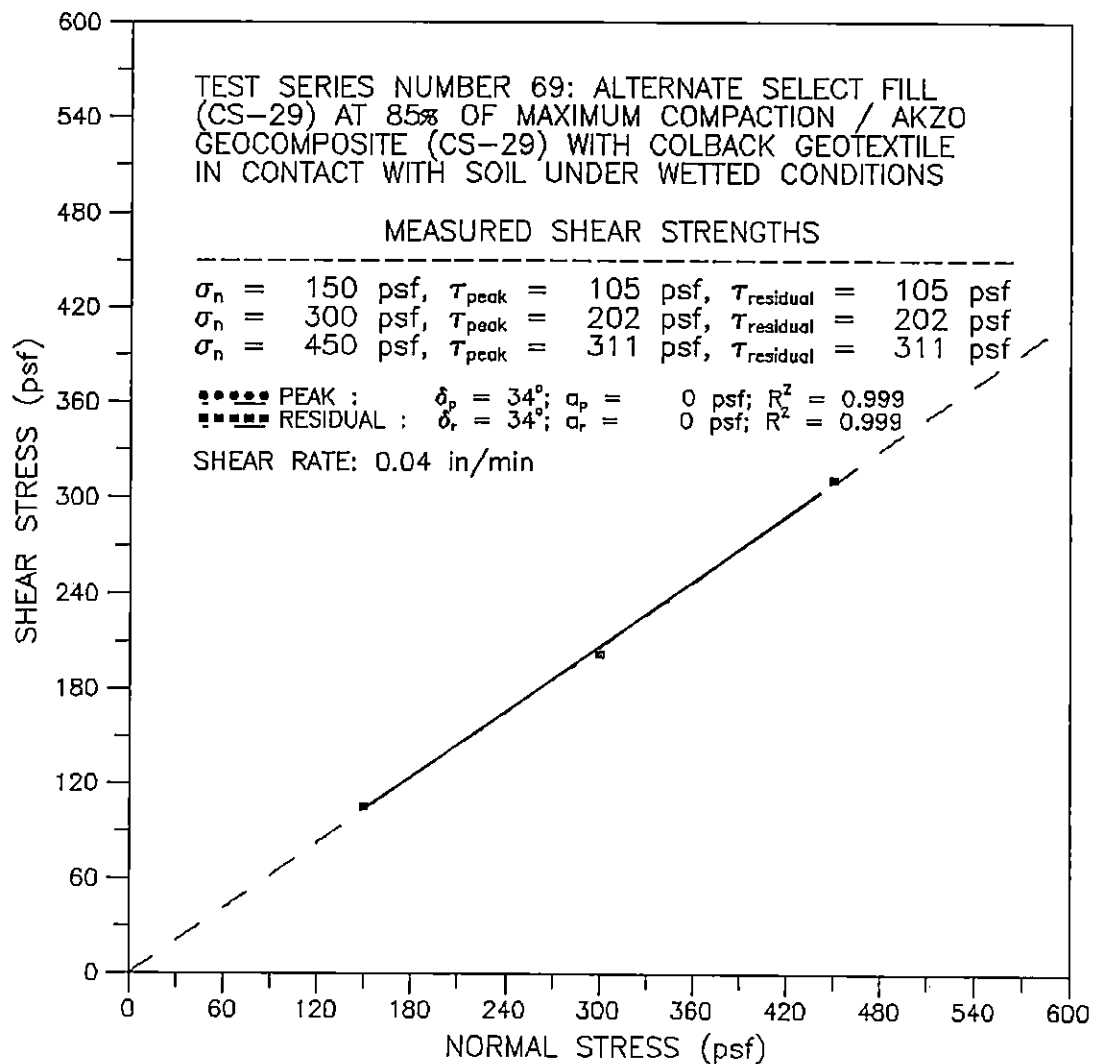
FIGURE NO. D-57

PROJECT NO. GQ3700-03

DOCUMENT NO. SG196084

FILE NO.

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The reported value of adhesion may not be the true adhesion of the interface, and caution should be exercised in using this adhesion value for applications involving normal stresses outside the range of stresses covered by the test.

DATE TESTED: 20 OCTOBER 1995

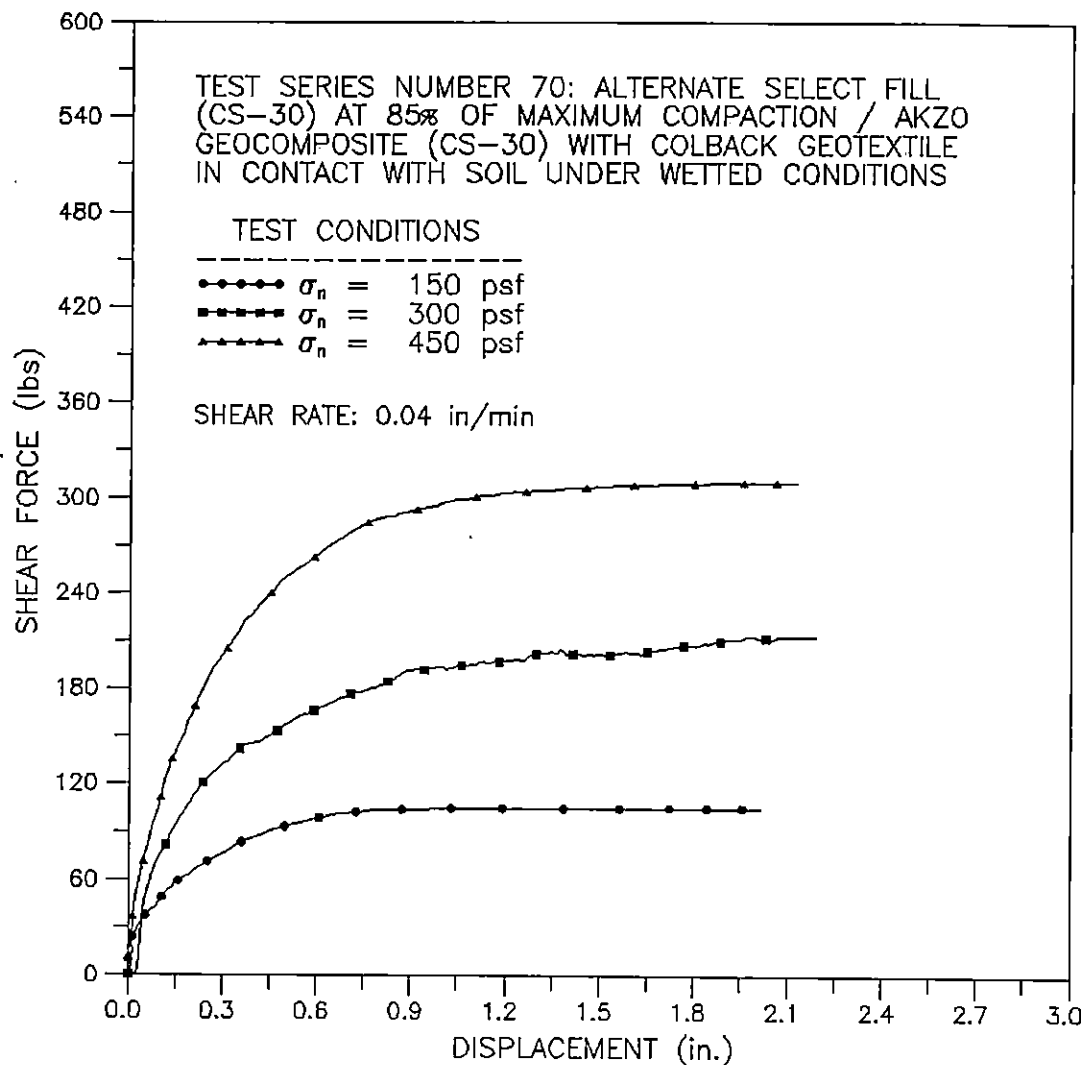


GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.	D-58
PROJECT NO.	GQ3700-03
DOCUMENT NO.	SGI96084
FILE NO.	

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The shear box size was 12 in. by 12 in. (300 mm by 300 mm), and the contact area remained constant throughout the entire test.

DATE TESTED: 23 OCTOBER 1995



GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

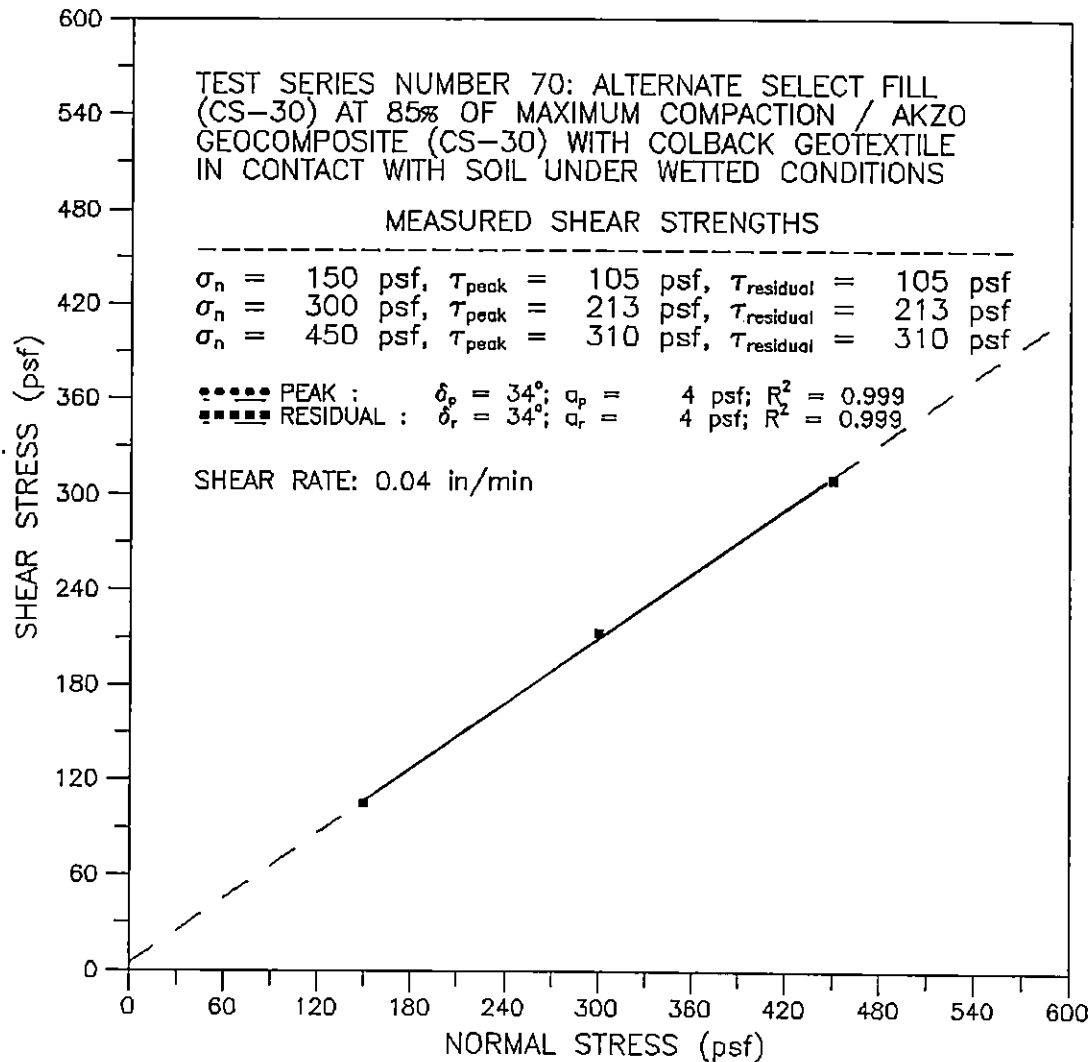
FIGURE NO. D-59

PROJECT NO. GQ3700-03

DOCUMENT NO. SGI96084

FILE NO.

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The reported value of adhesion may not be the true adhesion of the interface, and caution should be exercised in using this adhesion value for applications involving normal stresses outside the range of stresses covered by the test.

DATE TESTED: 23 OCTOBER 1995



GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

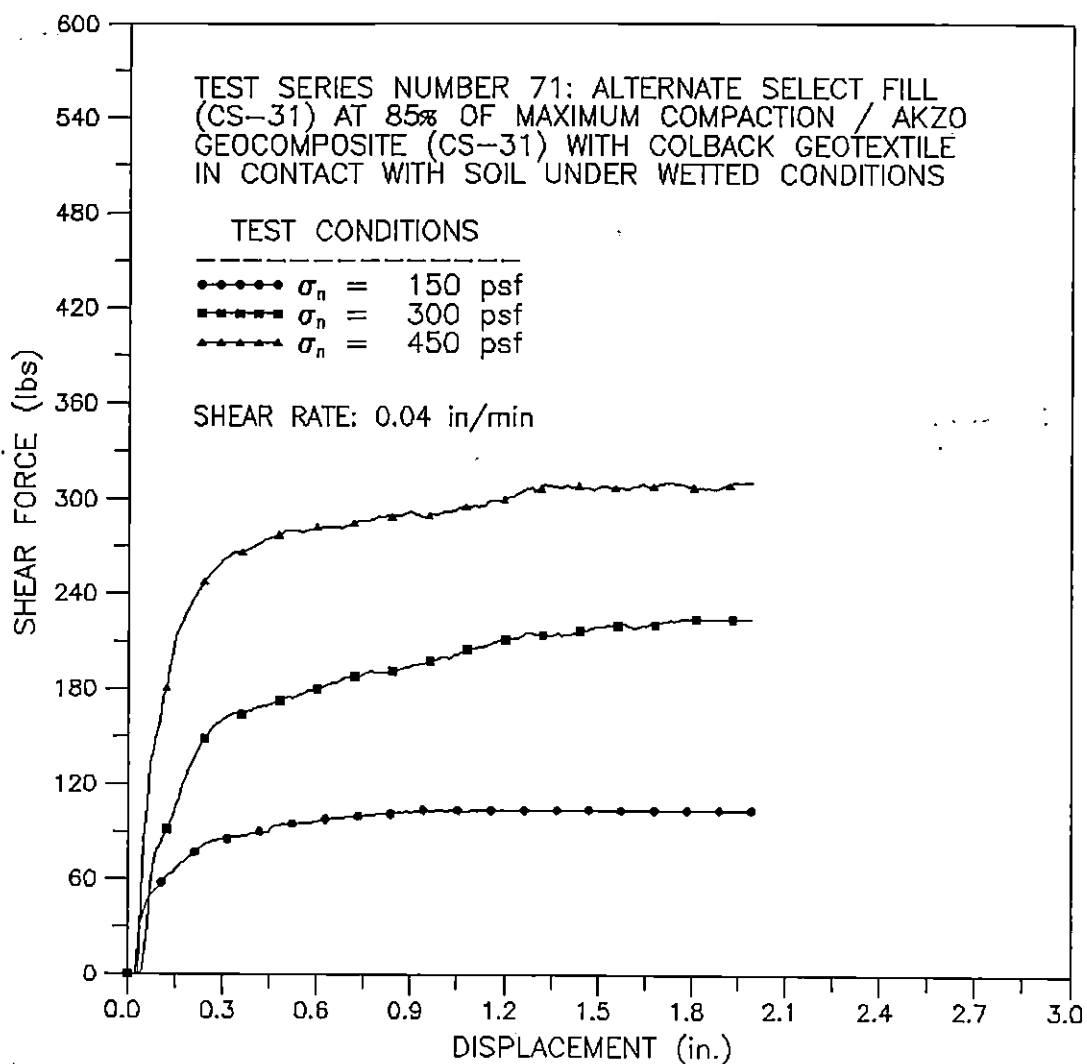
FIGURE NO. D-60

PROJECT NO. GQ3700-03

DOCUMENT NO. SG196084

FILE NO.

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The shear box size was 12 in. by 12 in. (300 mm by 300 mm), and the contact area remained constant throughout the entire test.

DATE TESTED: 27 OCTOBER 1995

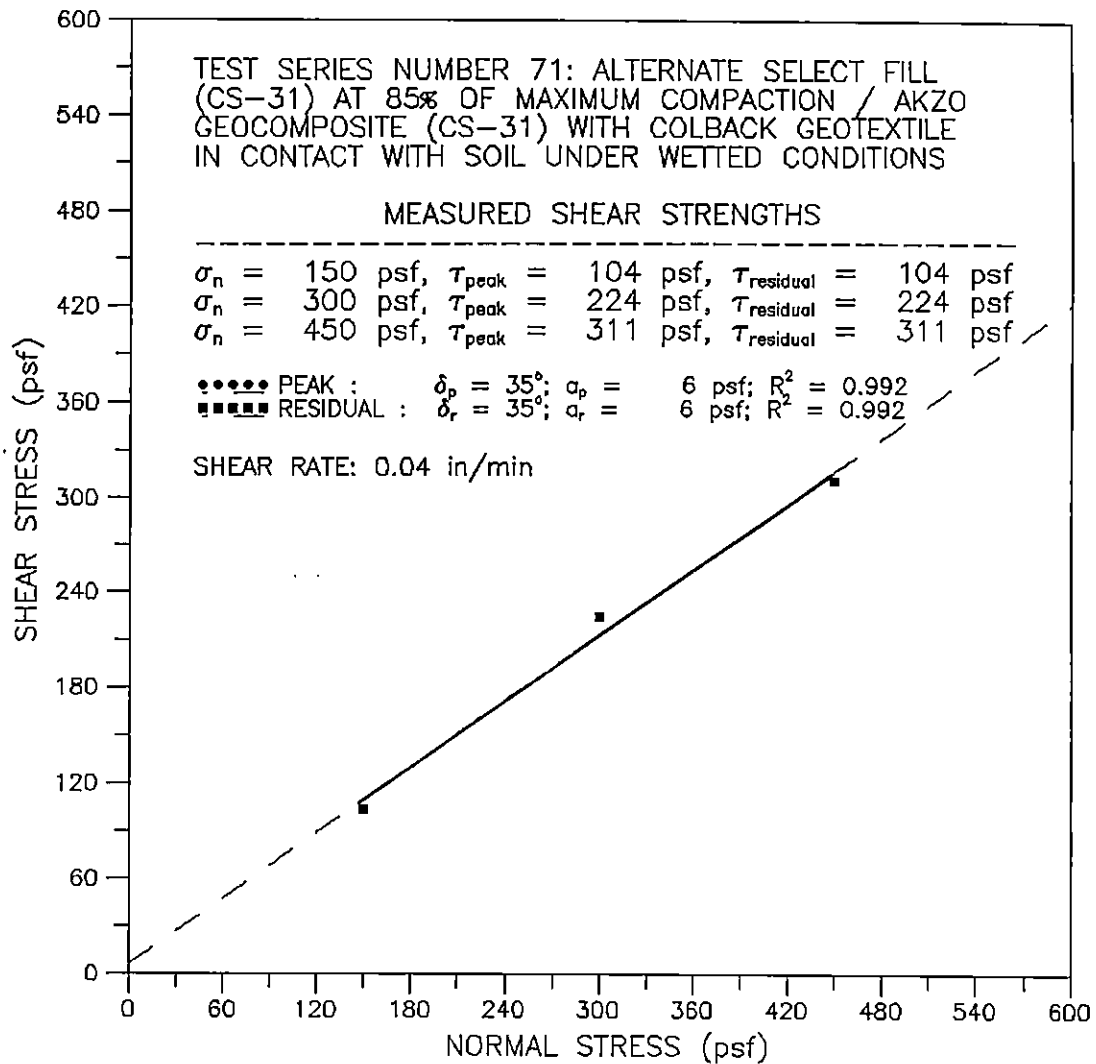


GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.	D-61
PROJECT NO.	GQ3700-03
DOCUMENT NO.	SGI96084
FILE NO.	

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The reported value of adhesion may not be the true adhesion of the interface, and caution should be exercised in using this adhesion value for applications involving normal stresses outside the range of stresses covered by the test.

DATE TESTED: 27 OCTOBER 1995



GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

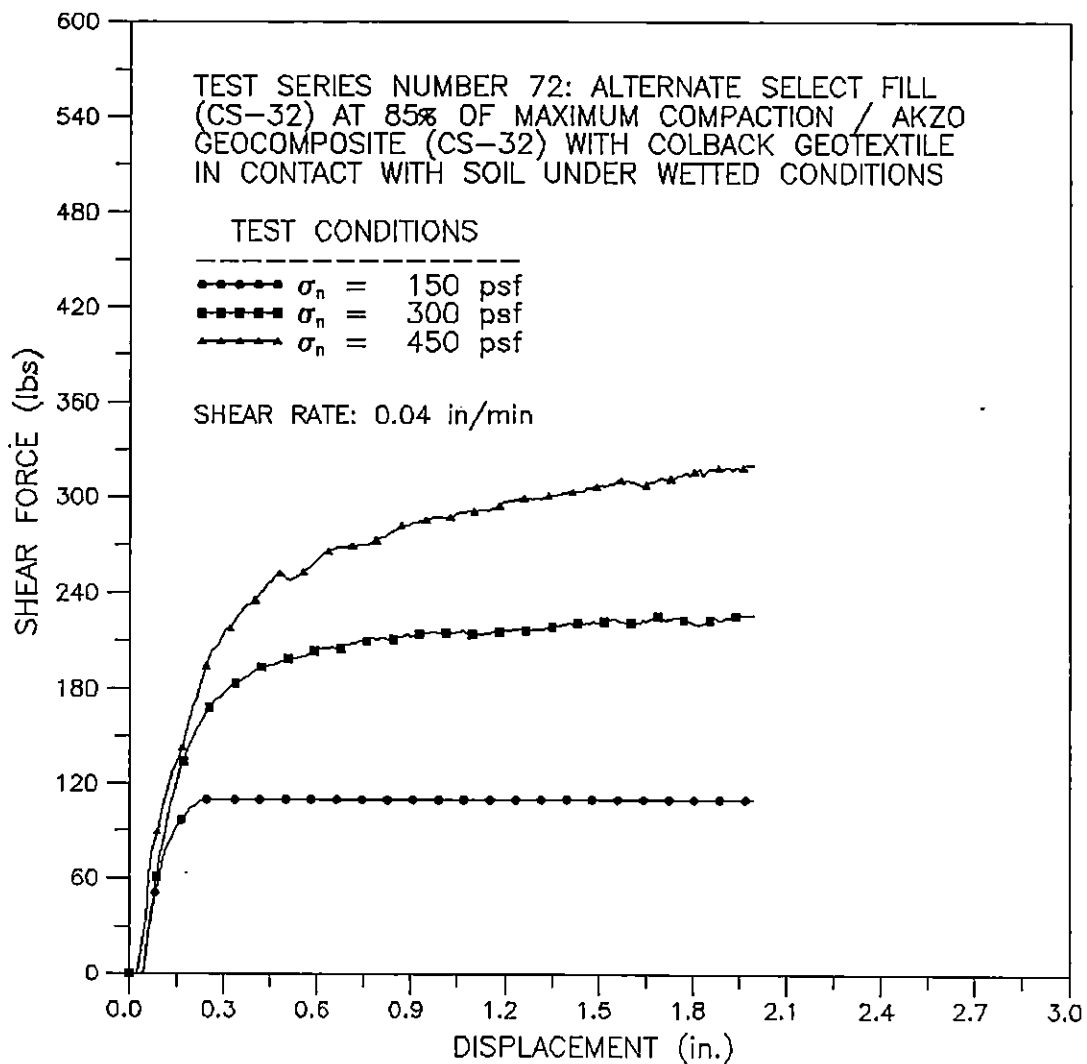
FIGURE NO. D-62

PROJECT NO. GQ3700-03

DOCUMENT NO. SGI96084

FILE NO.

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The shear box size was 12 in. by 12 in. (300 mm by 300 mm), and the contact area remained constant throughout the entire test.

DATE TESTED: 7 NOVEMBER 1995

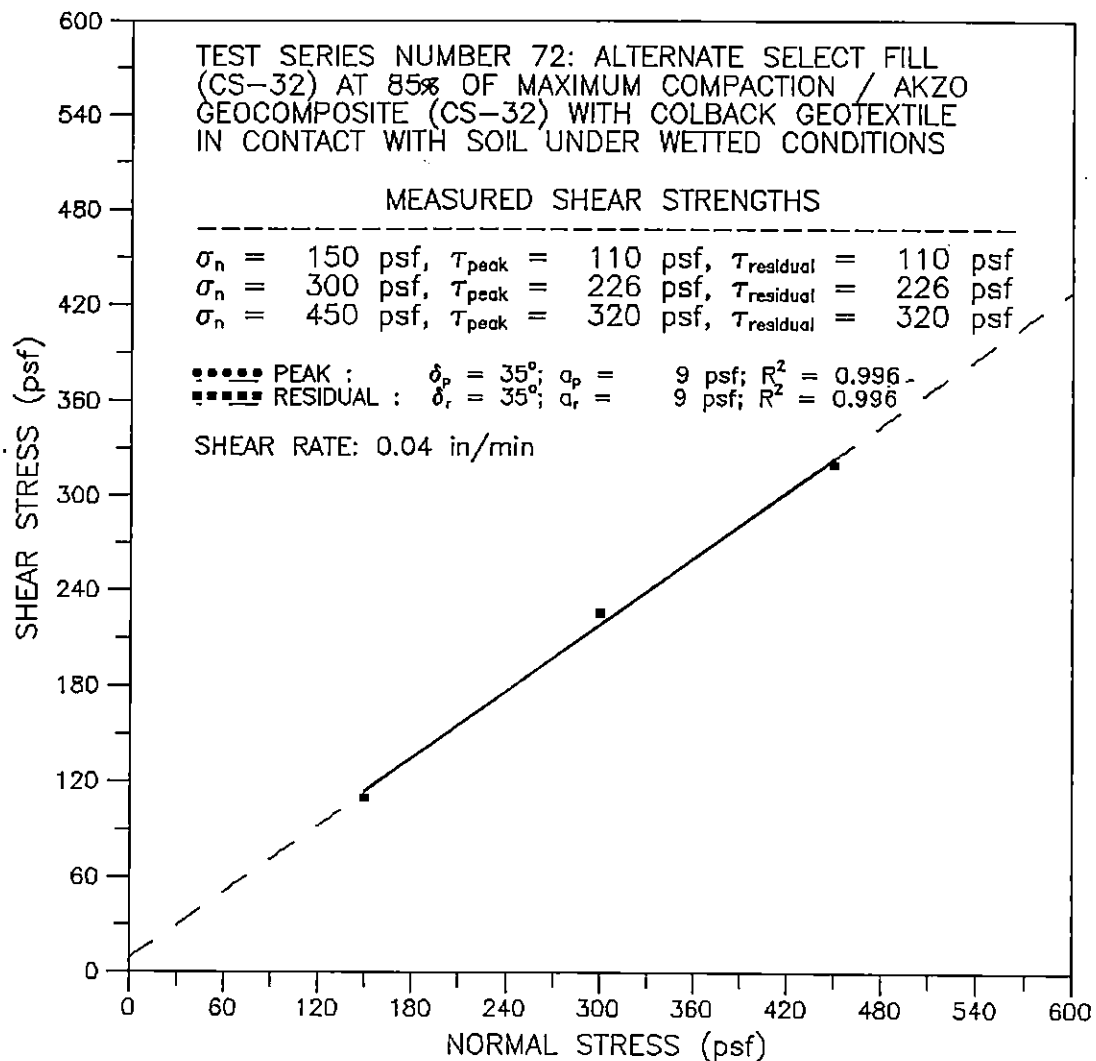


GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.	D-63
PROJECT NO.	GQ3700-03
DOCUMENT NO.	SGI96084
FILE NO.	

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The reported value of adhesion may not be the true adhesion of the interface, and caution should be exercised in using this adhesion value for applications involving normal stresses outside the range of stresses covered by the test.

DATE TESTED: 7 NOVEMBER 1995



GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

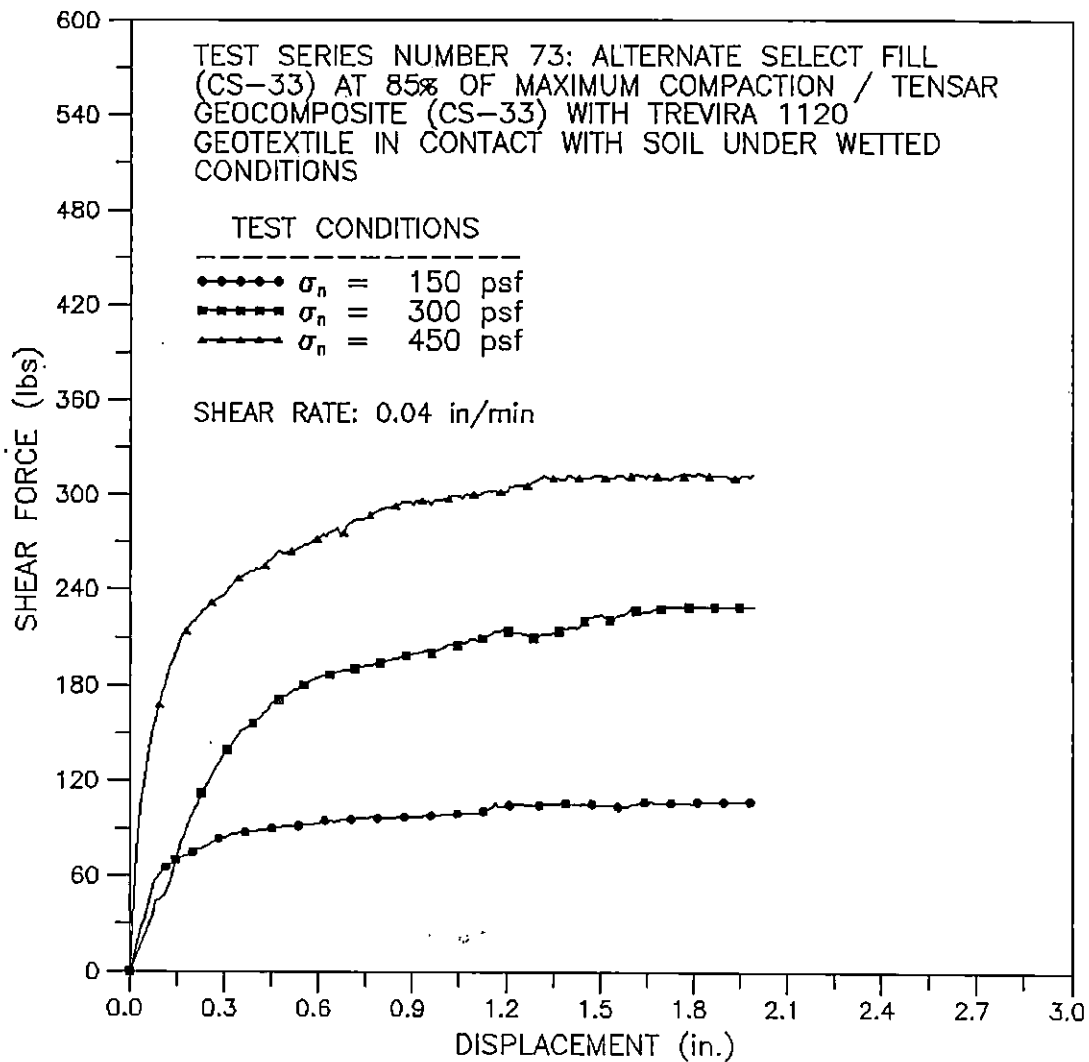
FIGURE NO. D-64

PROJECT NO. GQ3700-03

DOCUMENT NO. SG196084

FILE NO.

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The shear box size was 12 in. by 12 in.(300 mm by 300 mm), and the contact area remained constant throughout the entire test.

DATE TESTED: 8 NOVEMBER 1995

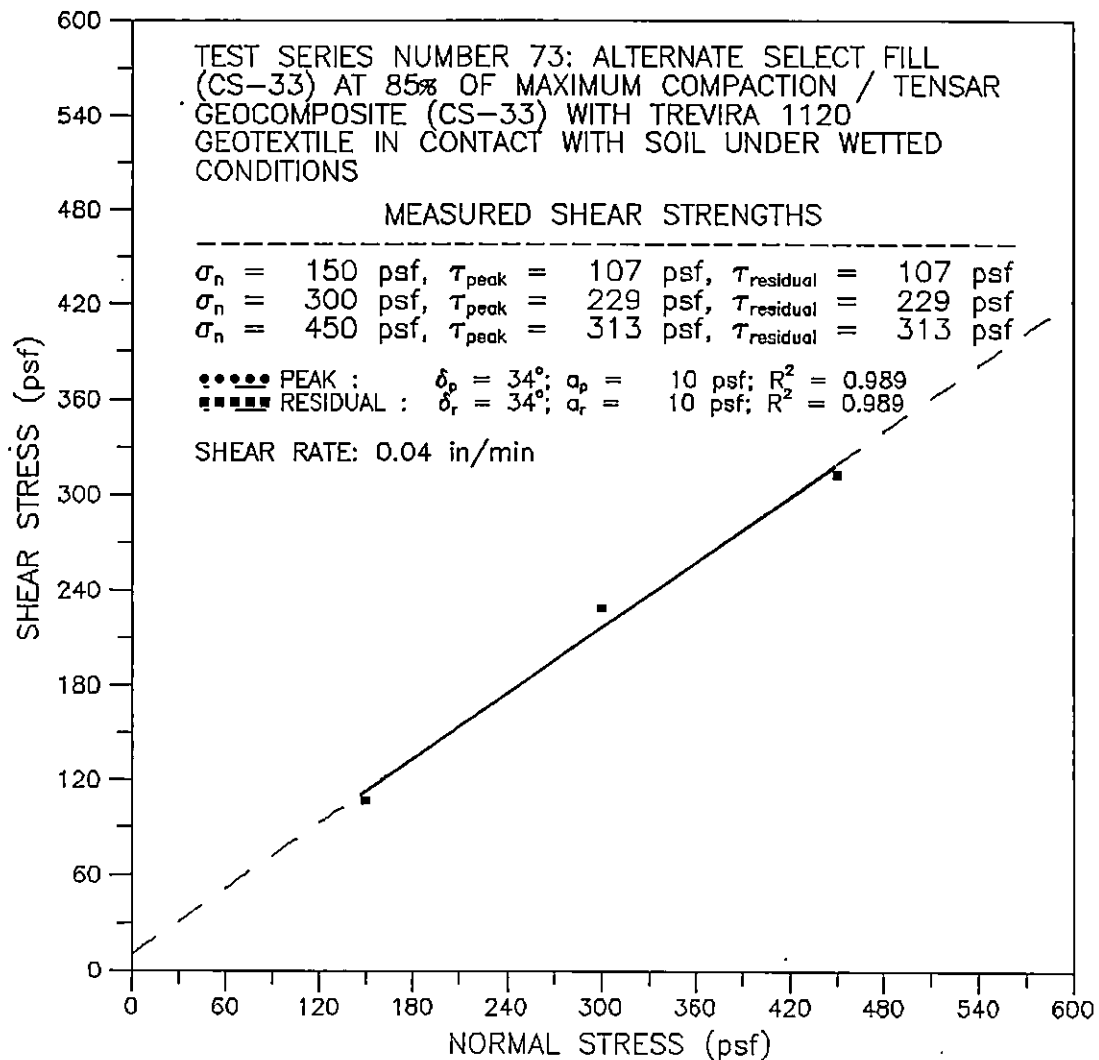


GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.	D-65
PROJECT NO.	GQ3700-03
DOCUMENT NO.	SGI96084
FILE NO.	

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The reported value of adhesion may not be the true adhesion of the interface, and caution should be exercised in using this adhesion value for applications involving normal stresses outside the range of stresses covered by the test.

DATE TESTED: 8 NOVEMBER 1995

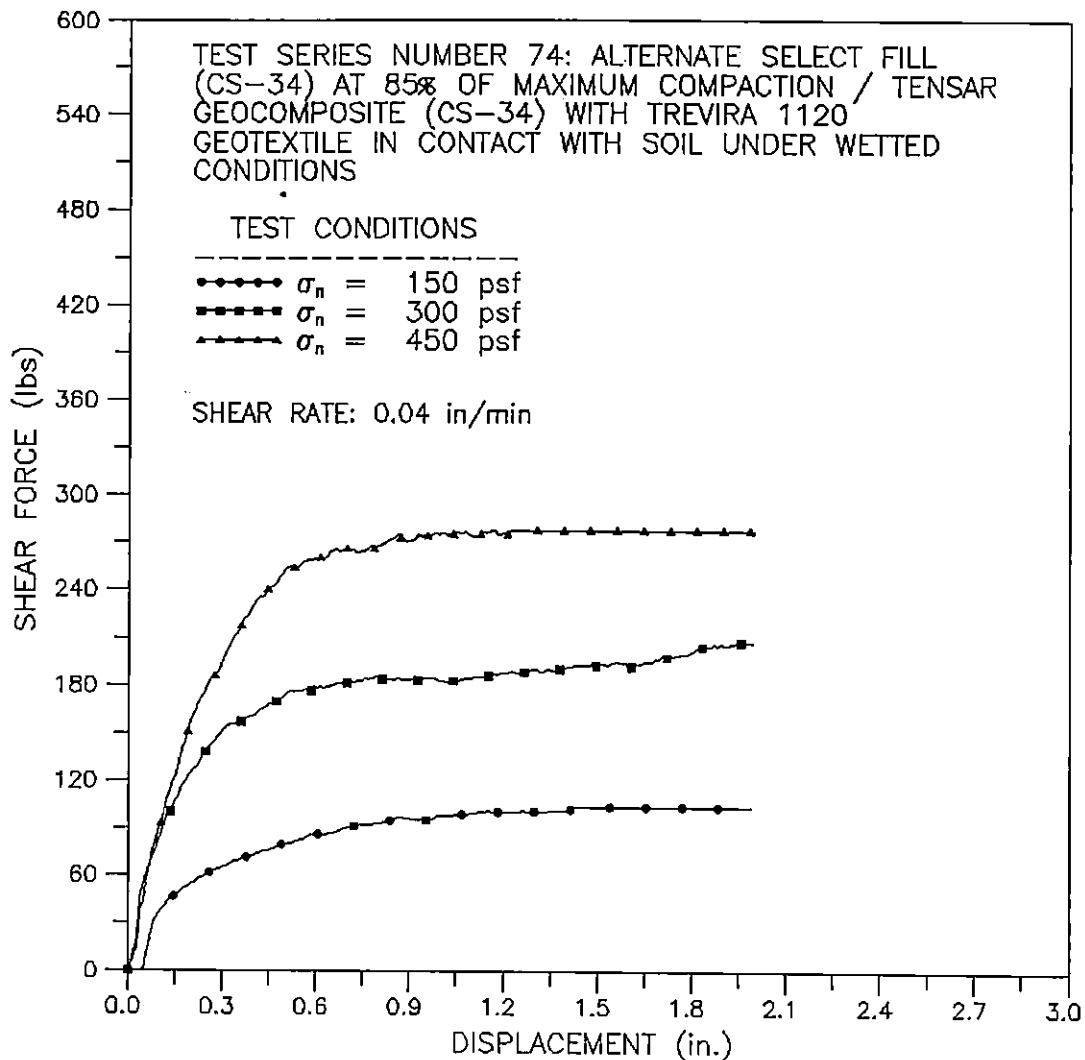


GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.	D-66
PROJECT NO.	GQ3700-03
DOCUMENT NO.	SGI96084
FILE NO.	

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The shear box size was 12 in. by 12 in. (300 mm by 300 mm), and the contact area remained constant throughout the entire test.

DATE TESTED: 14 NOVEMBER 1995

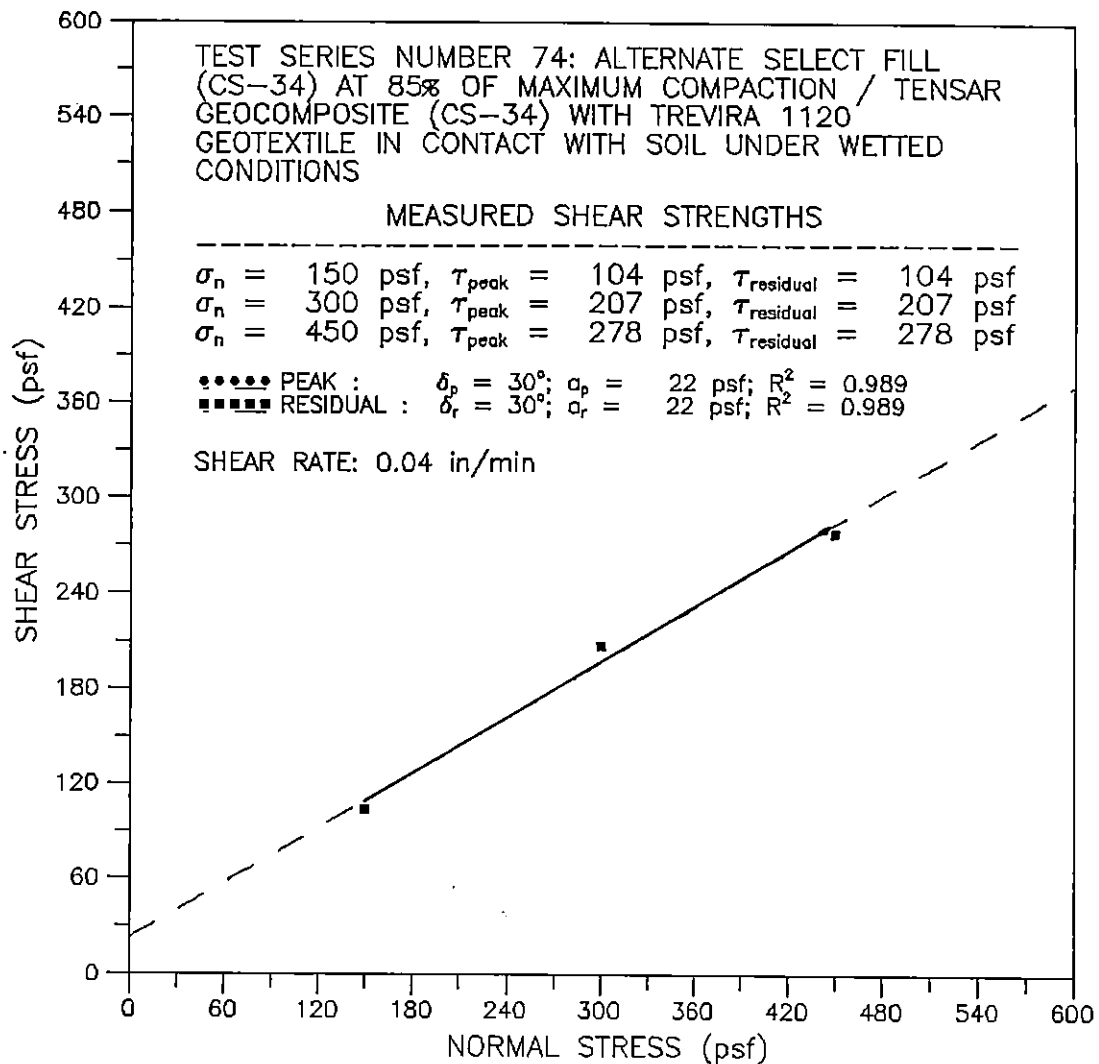


GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.	D-67
PROJECT NO.	GQ3700-03
DOCUMENT NO.	SGI96084
FILE NO.	

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The reported value of adhesion may not be the true adhesion of the interface, and caution should be exercised in using this adhesion value for applications involving normal stresses outside the range of stresses covered by the test.

DATE TESTED: 14 NOVEMBER 1995

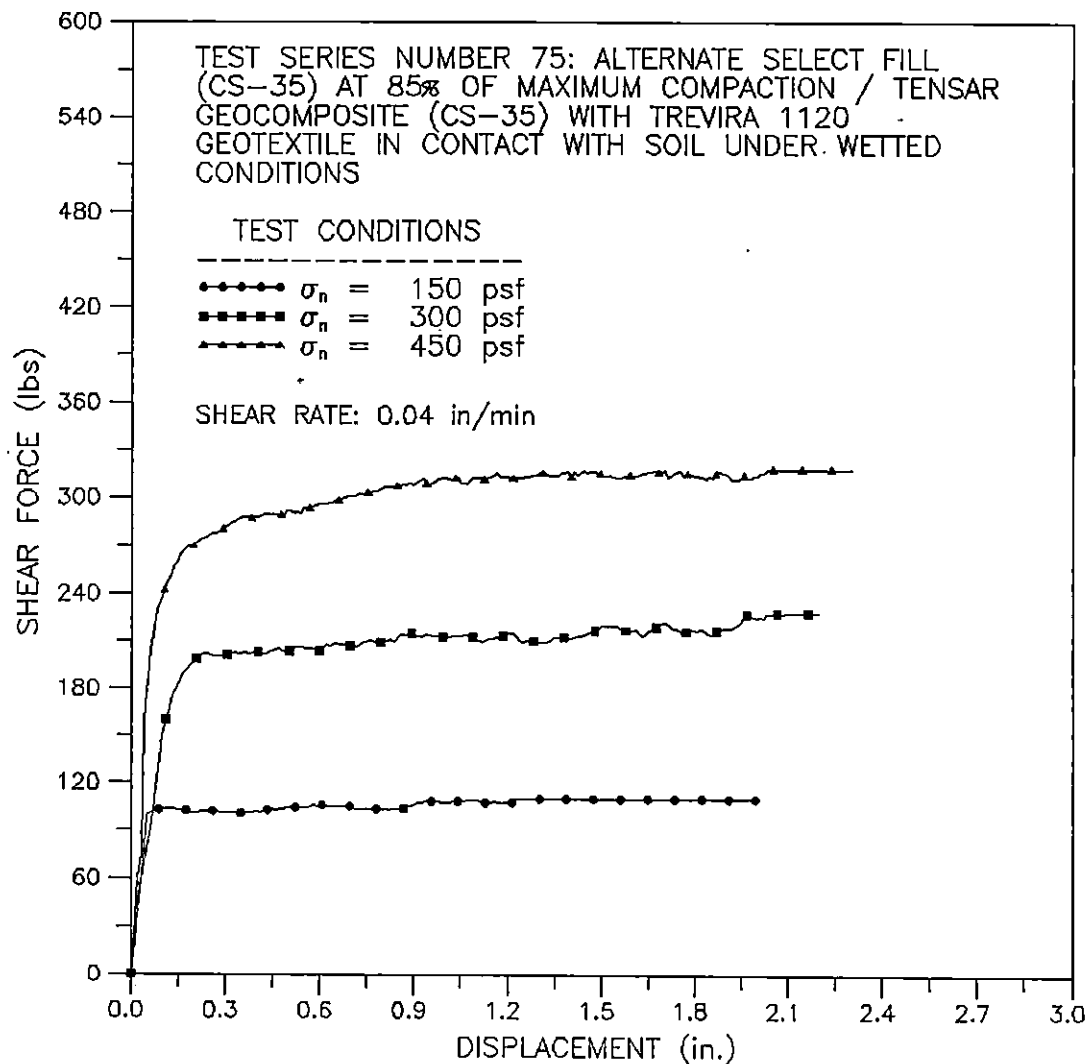


GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.	D-68
PROJECT NO.	GQ3700-03
DOCUMENT NO.	SGI96084
FILE NO.	

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The shear box size was 12 in. by 12 in. (300 mm by 300 mm), and the contact area remained constant throughout the entire test.

DATE TESTED: 25 APRIL 1996

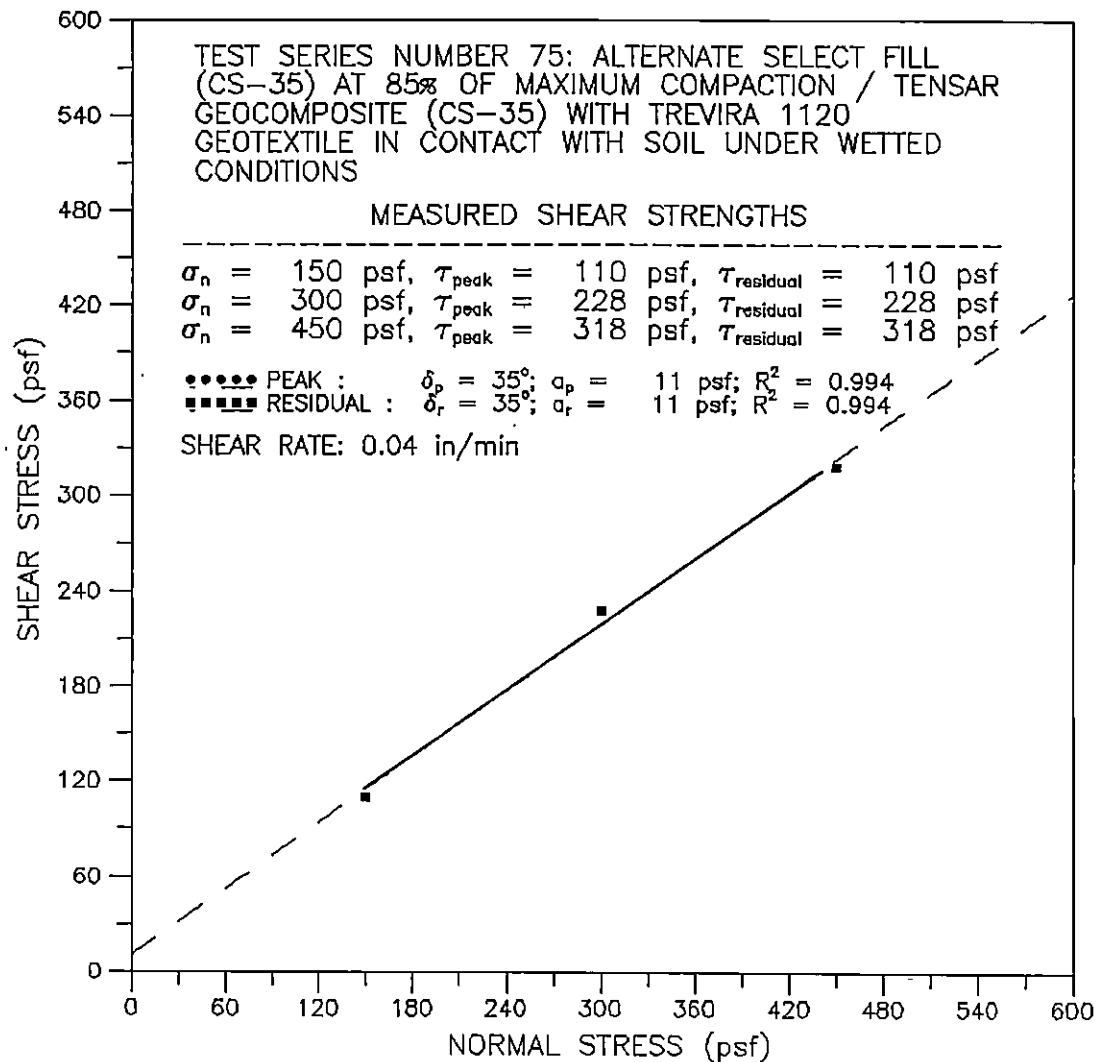


GEO SYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.	D-69
PROJECT NO.	GQ3700-03
DOCUMENT NO.	SGI96084
FILE NO.	

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The reported value of adhesion may not be the true adhesion of the interface, and caution should be exercised in using this adhesion value for applications involving normal stresses outside the range of stresses covered by the test.

DATE TESTED: 25 APRIL 1996

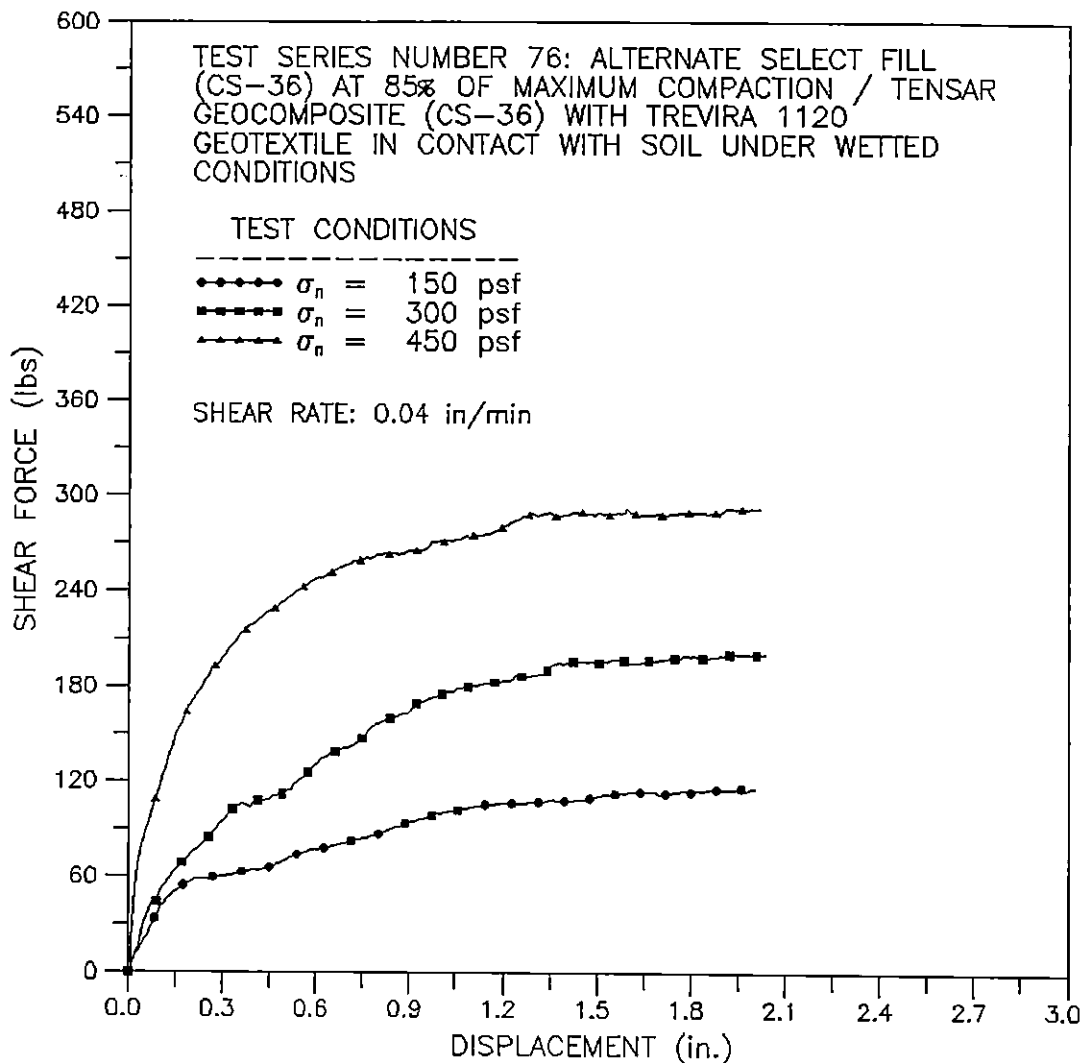


GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.	D-70
PROJECT NO.	GQ3700-03
DOCUMENT NO.	SGI96084
FILE NO.	

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The shear box size was 12 in. by 12 in.(300 mm by 300 mm), and the contact area remained constant throughout the entire test.

DATE TESTED: 1 MAY 1996

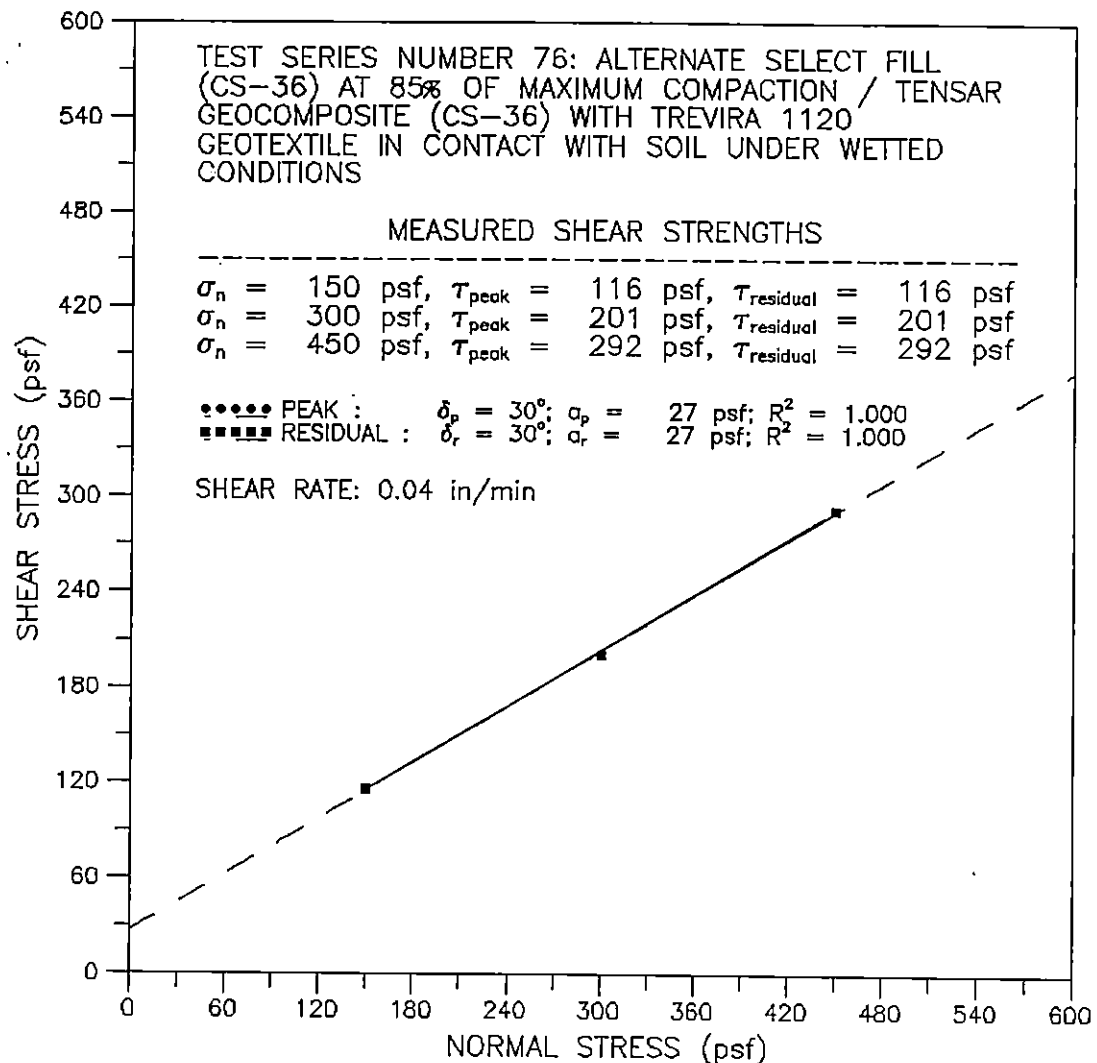


GEO SYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.	D-71
PROJECT NO.	GQ3700-03
DOCUMENT NO.	SGI96084
FILE NO.	

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The reported value of adhesion may not be the true adhesion of the interface, and caution should be exercised in using this adhesion value for applications involving normal stresses outside the range of stresses covered by the test.

DATE TESTED: 1 MAY 1996



GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

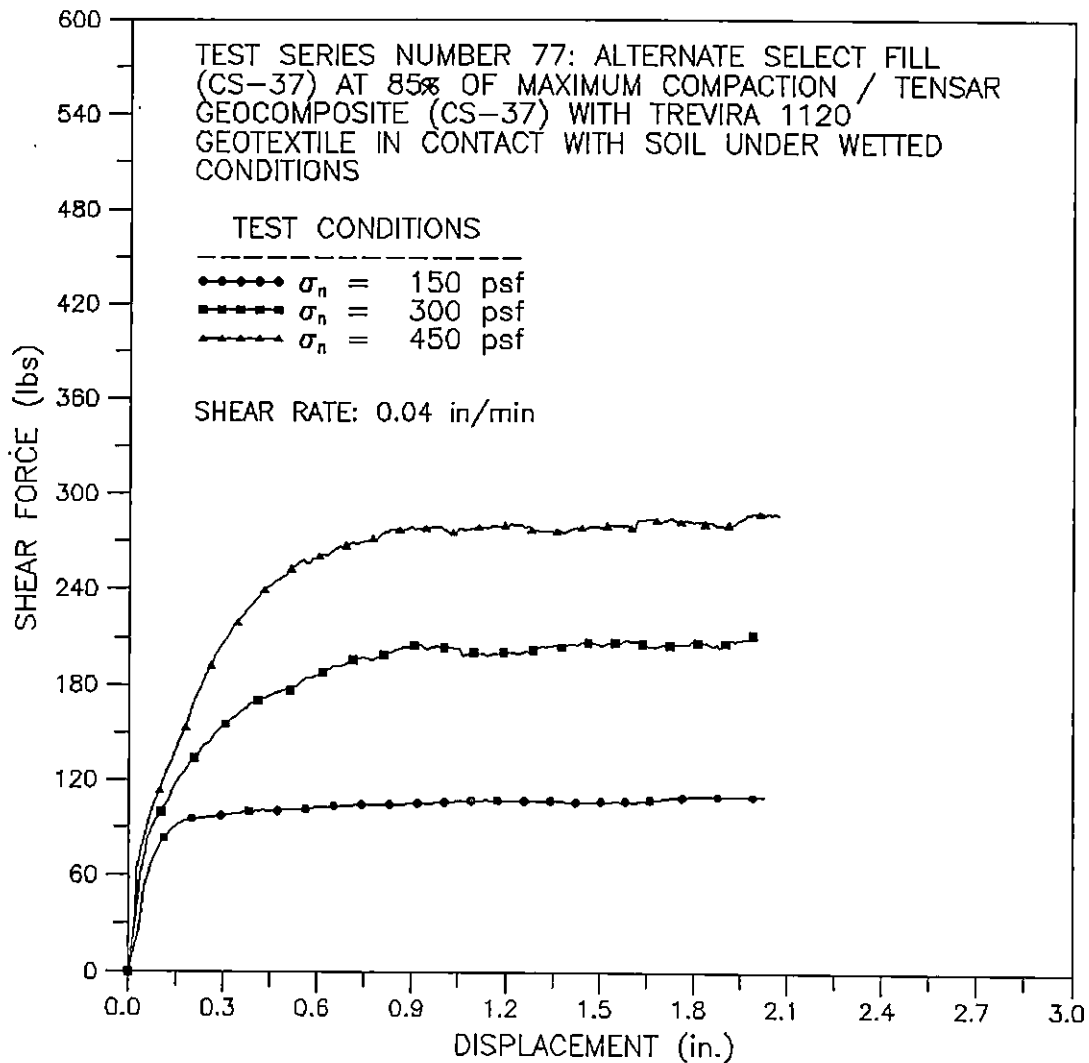
FIGURE NO. D-72

PROJECT NO. GQ3700-03

DOCUMENT NO. SGI96084

FILE NO.

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL INTERFACE DIRECT SHEAR TESTING



NOTE: The shear box size was 12 in. by 12 in. (300 mm by 300 mm), and the contact area remained constant throughout the entire test.

DATE TESTED: 7 MAY 1996

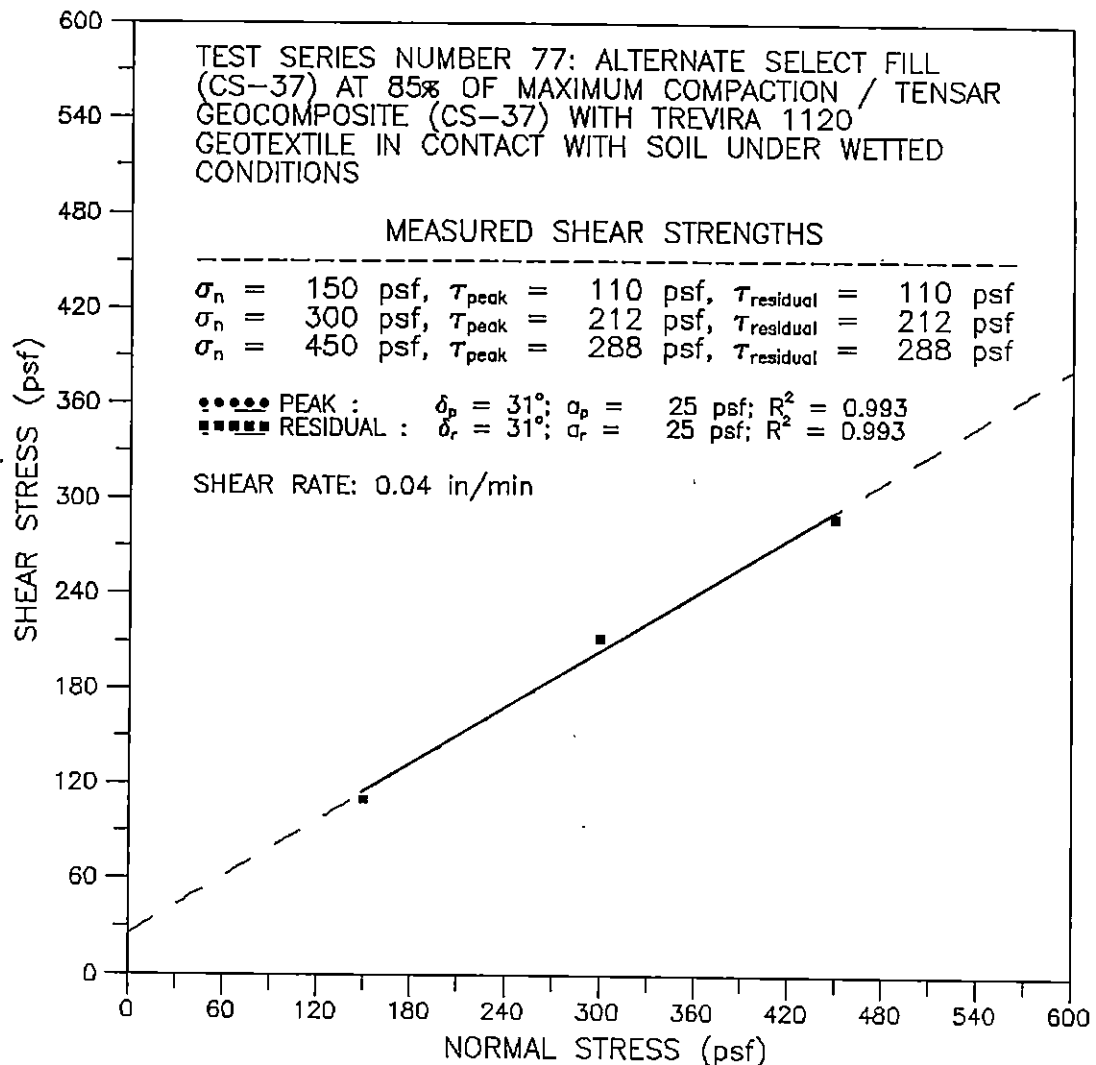


GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.	D-73
PROJECT NO.	GQ3700-03
DOCUMENT NO.	SGI96084
FILE NO.	

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL
INTERFACE DIRECT SHEAR TESTING



NOTE: The reported value of adhesion may not be the true adhesion of the interface, and caution should be exercised in using this adhesion value for applications involving normal stresses outside the range of stresses covered by the test.

DATE TESTED: 7 MAY 1996



GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.	D-74
PROJECT NO.	GQ3700-03
DOCUMENT NO.	SGI96084
FILE NO.	

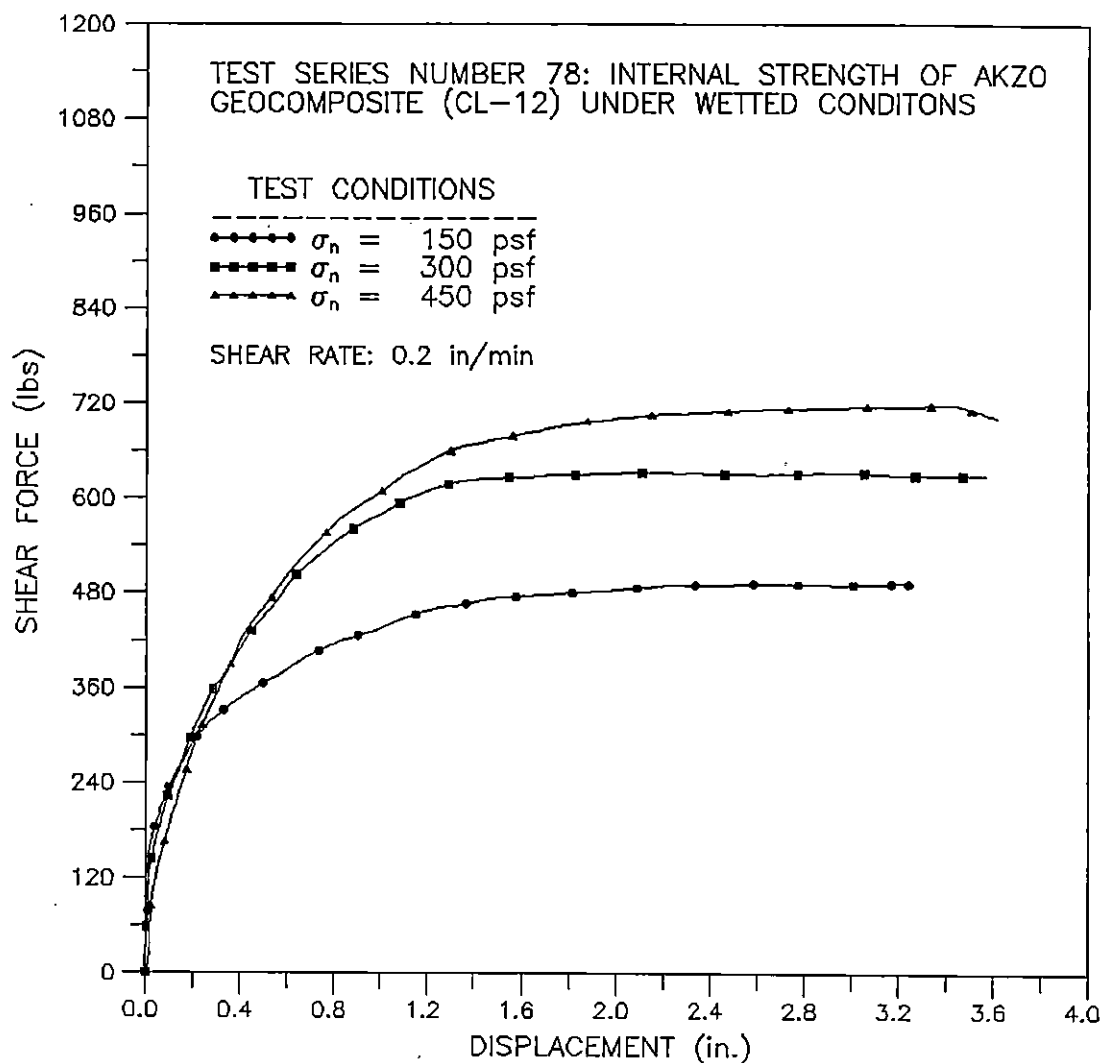
APPENDIX E

TEST RESULTS

GEOCOMPOSITE INTERNAL STRENGTH

DIRECT SHEAR TESTS

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL DIRECT SHEAR TESTING



NOTE: The shear box size was 12 in. by 12 in.(300 mm by 300 mm).

DATE TESTED: 21 AUGUST 1995

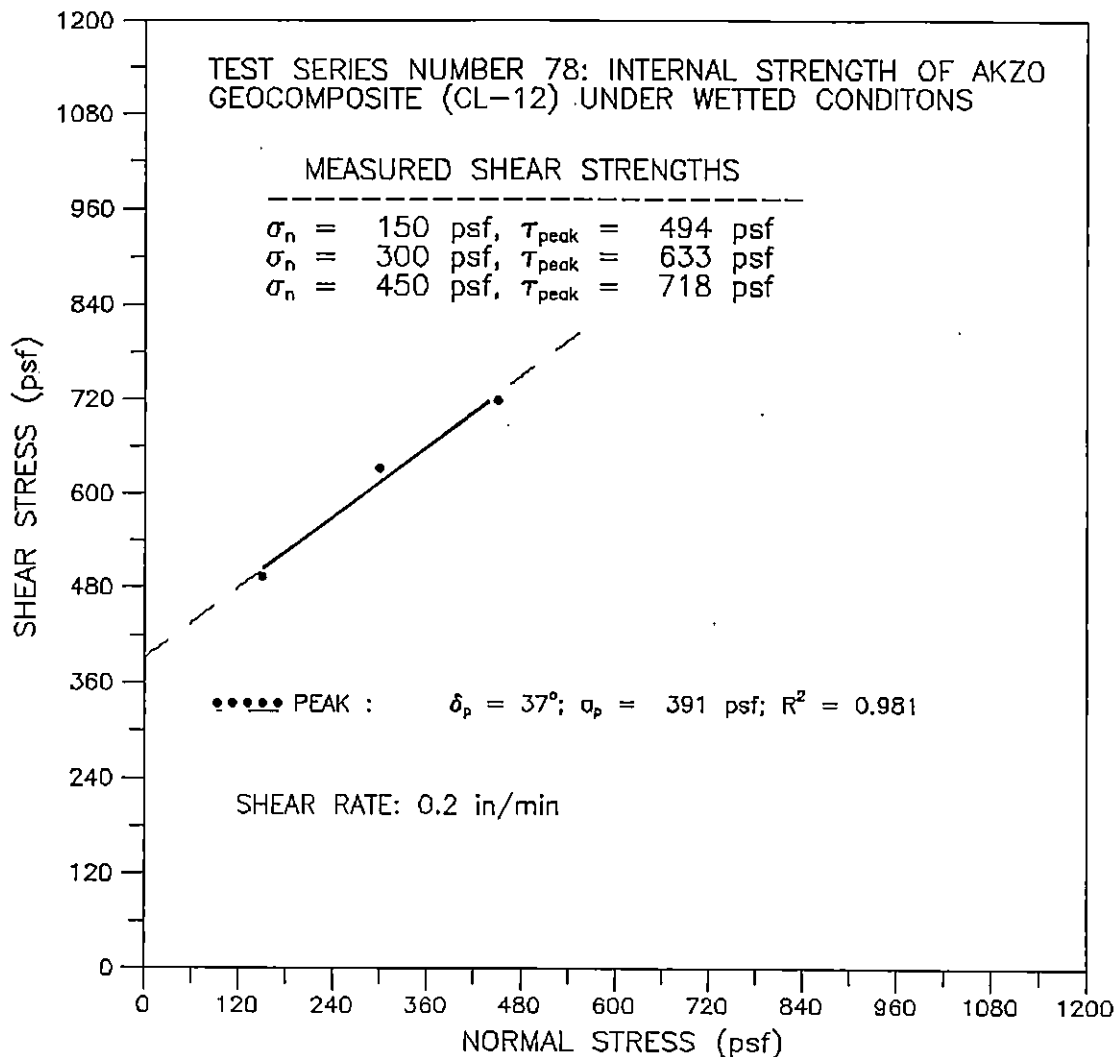


GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.	E-1
PROJECT NO.	GQ3700-03
DOCUMENT NO.	SGI96084
FILE NO.	

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL DIRECT SHEAR TESTING



- NOTE: (1) The reported value of adhesion may not be the true adhesion of the geocomposite, and caution should be exercised in using this adhesion value for applications involving normal stresses outside the range of stresses covered by the test.
- (2) Shear stresses were calculated assuming a constant shear area 1 ft².

DATE TESTED: 21 AUGUST 1995

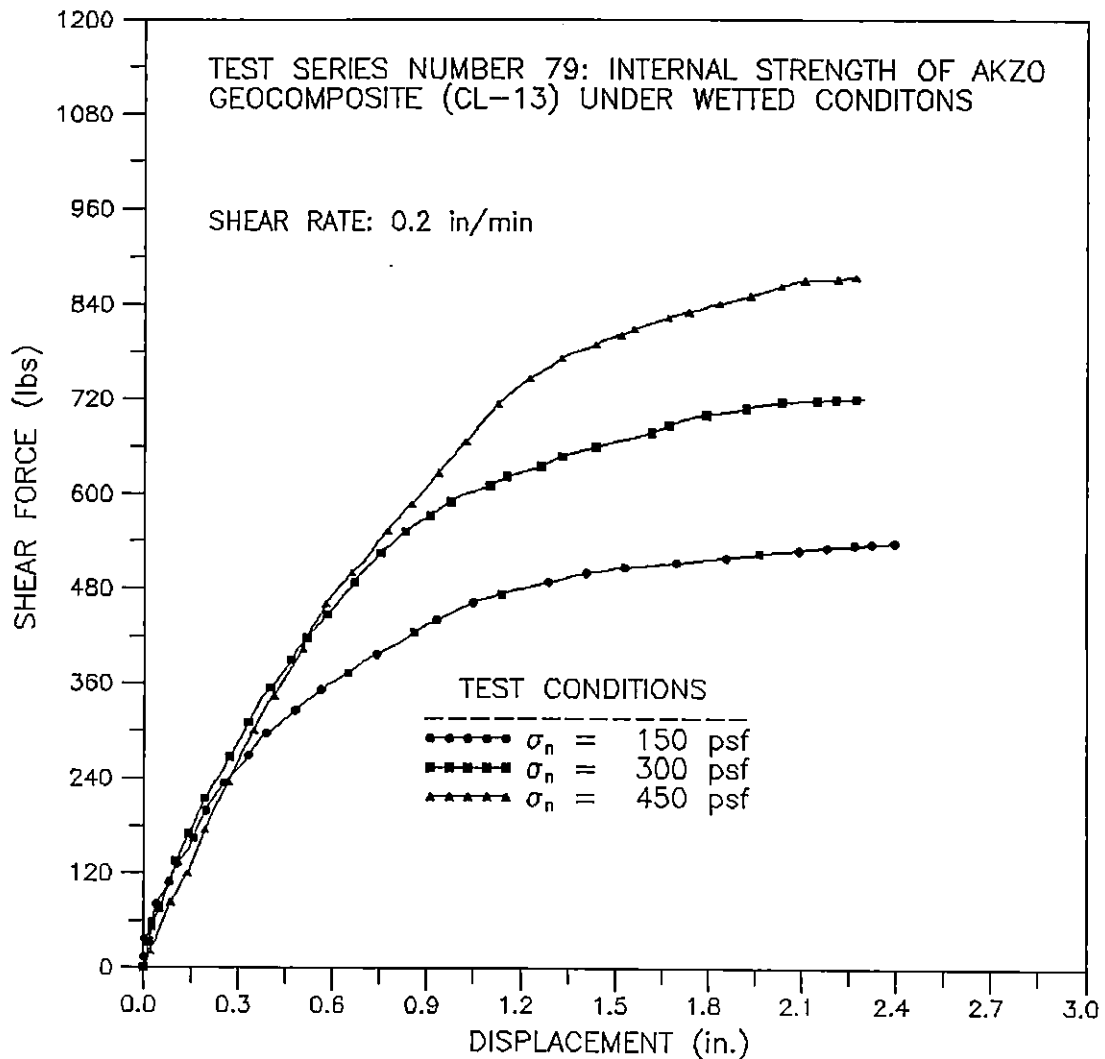


GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.	F-2
PROJECT NO.	GQ3700-03
DOCUMENT NO.	SGI96084
FILE NO.	

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL
DIRECT SHEAR TESTING



NOTE: The shear box size was 12 in. by 12 in.(300 mm by 300 mm).

DATE TESTED: 25 AUGUST 1995

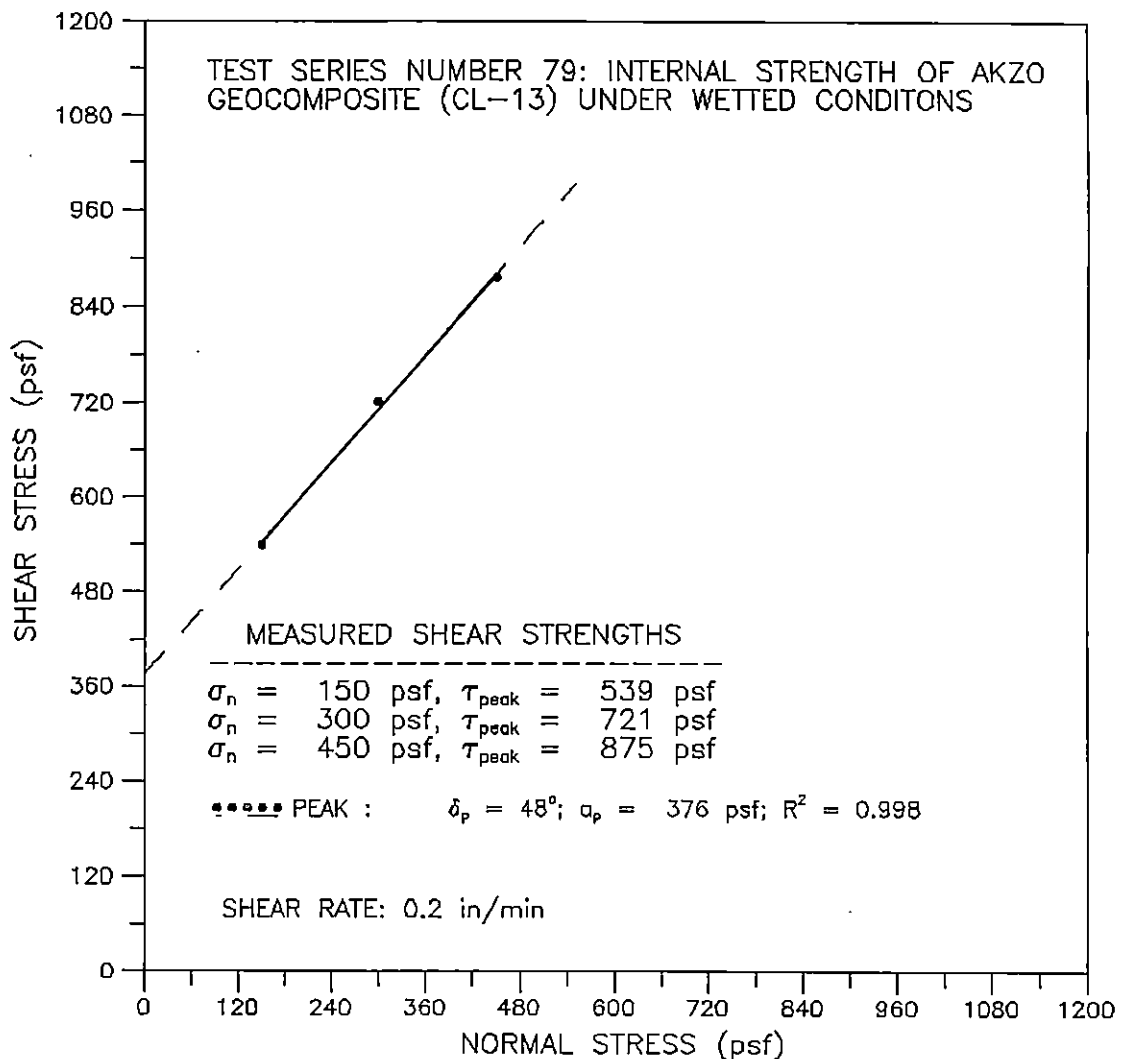


GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.	E-3
PROJECT NO.	GQ3700-03
DOCUMENT NO.	SGI96084
FILE NO.	

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL
DIRECT SHEAR TESTING



- NOTE: (1) The reported value of adhesion may not be the true adhesion of the geocomposite, and caution should be exercised in using this adhesion value for applications involving normal stresses outside the range of stresses covered by the test.
- (2) Shear stresses were calculated assuming a constant shear area 1 ft².

DATE TESTED: 25 AUGUST 1995

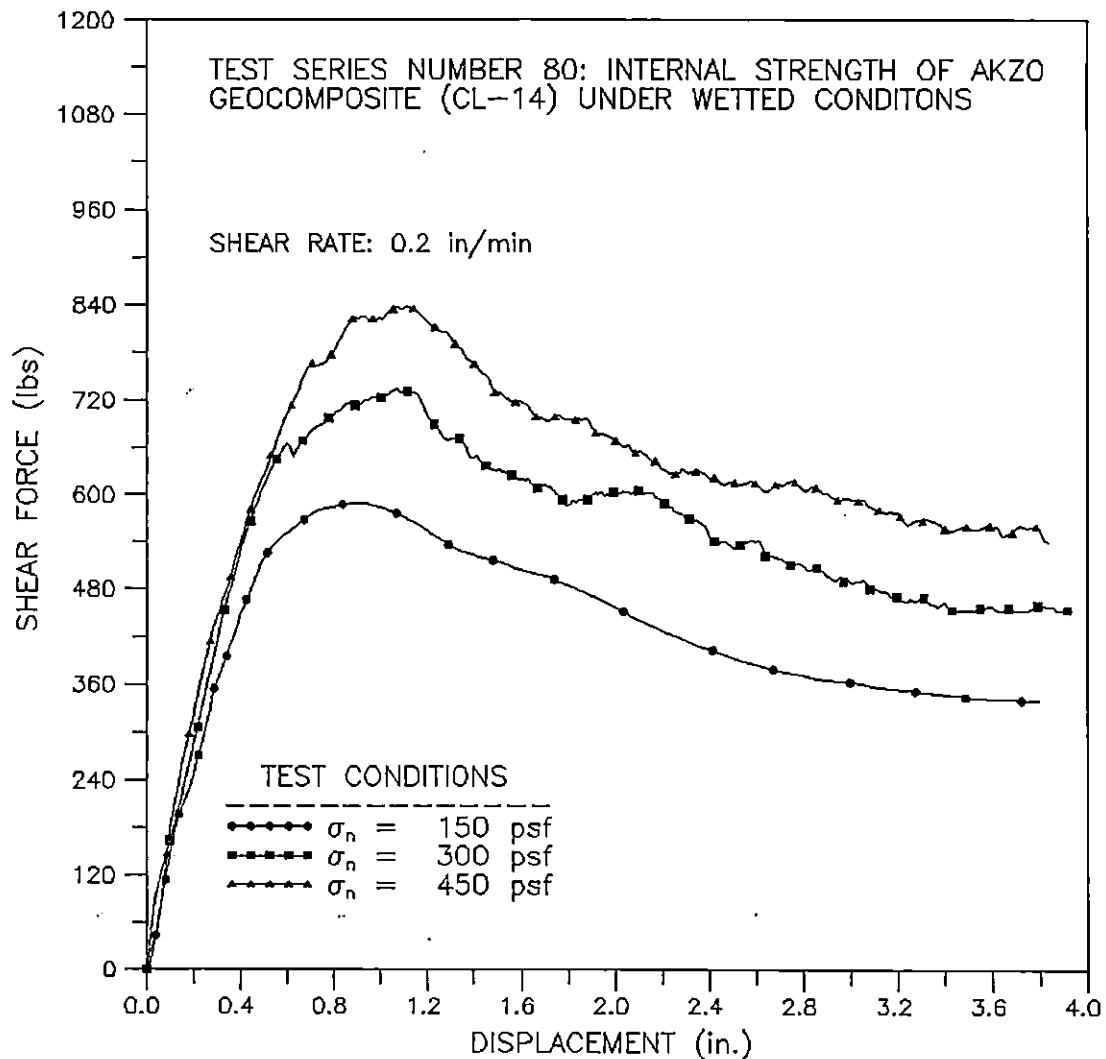


GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.	E-4
PROJECT NO.	GQ3700-03
DOCUMENT NO.	SGI96084
FILE NO.	

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL
DIRECT SHEAR TESTING



NOTE: The shear box size. was 12 in. by 12 in.(300 mm by 300 mm).

DATE TESTED: 5 SEPTEMBER 1995

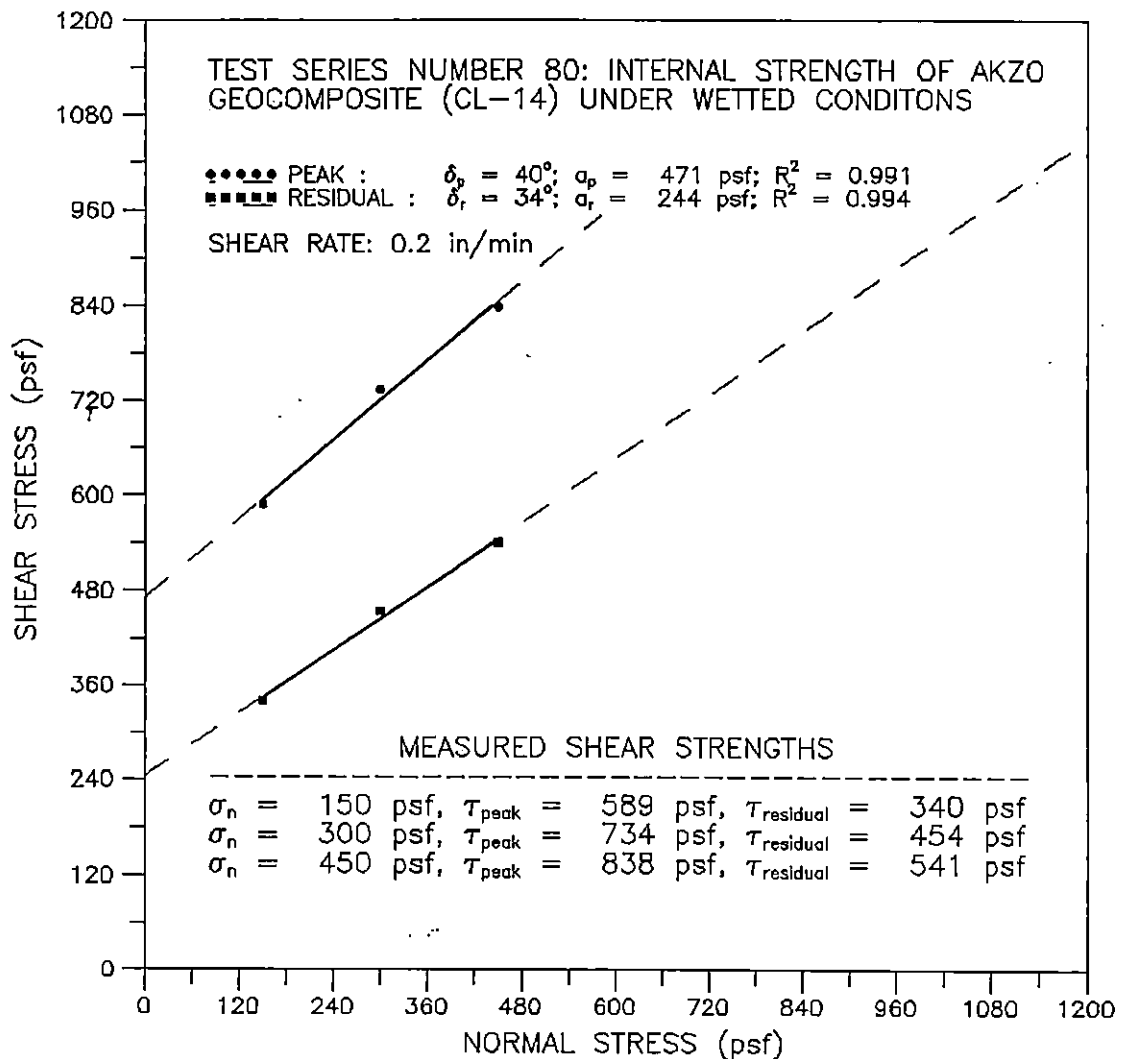


GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.	E-5
PROJECT NO.	GQ3700-03
DOCUMENT NO.	SGI96084
FILE NO.	

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL DIRECT SHEAR TESTING



- NOTE: (1) The reported value of adhesion may not be the true adhesion of the geocomposite, and caution should be exercised in using this adhesion value for applications involving normal stresses outside the range of stresses covered by the test.
- (2) Shear stresses were calculated assuming a constant shear area 1 ft².

DATE TESTED: 5 SEPTEMBER 1995

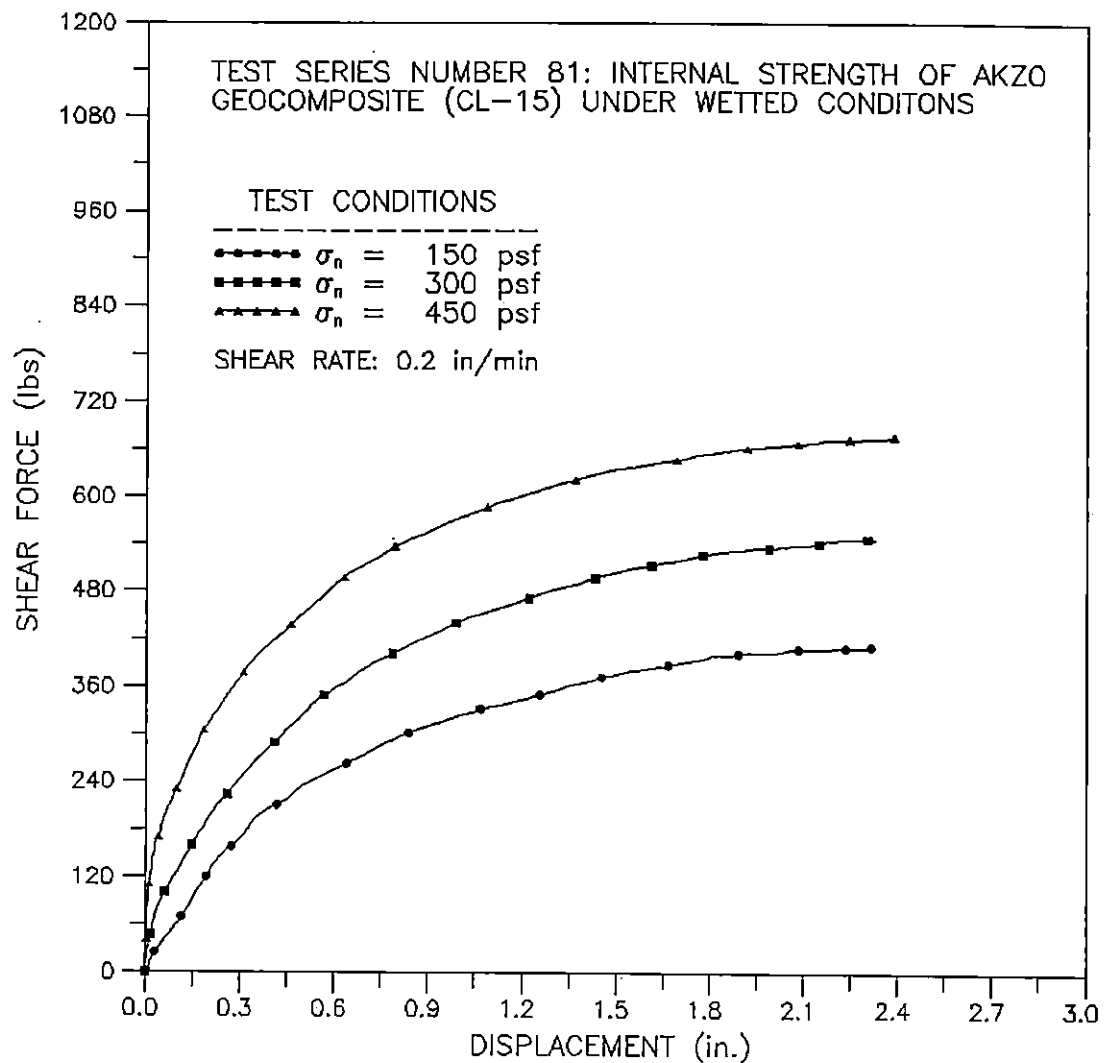


GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.	E-6
PROJECT NO.	G03700-03
DOCUMENT NO.	SGI96084
FILE NO.	

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL DIRECT SHEAR TESTING



NOTE: The shear box size was 12 in. by 12 in.(300 mm by 300 mm).

DATE TESTED: 8 SEPTEMBER 1995

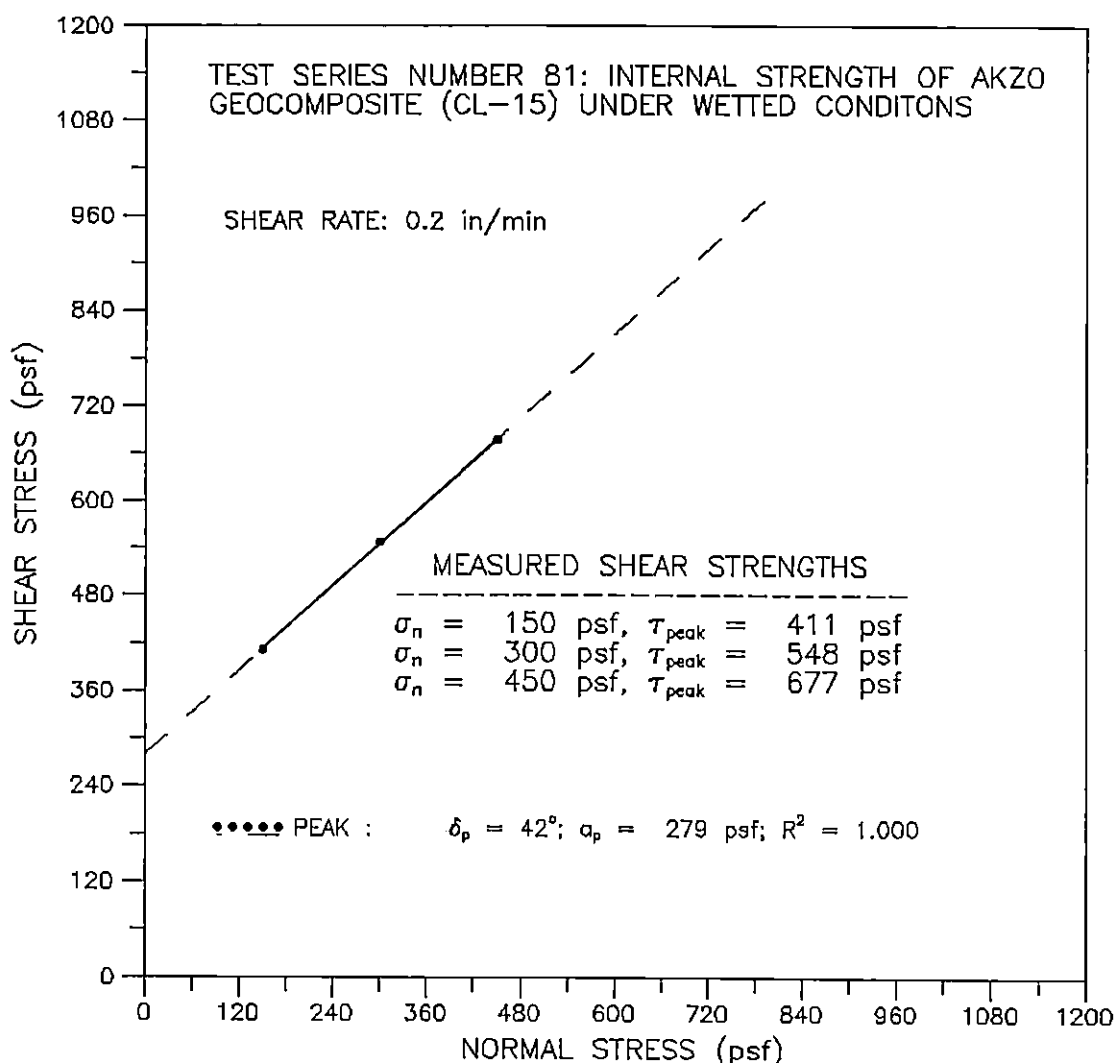


GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.	E-7
PROJECT NO.	GQ3700-03
DOCUMENT NO.	SGI96084
FILE NO.	

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL DIRECT SHEAR TESTING



- NOTE: (1) The reported value of adhesion may not be the true adhesion of the geocomposite, and caution should be exercised in using this adhesion value for applications involving normal stresses outside the range of stresses covered by the test.
- (2) Shear stresses were calculated assuming a constant shear area 1 ft².

DATE TESTED: 8 SEPTEMBER 1995

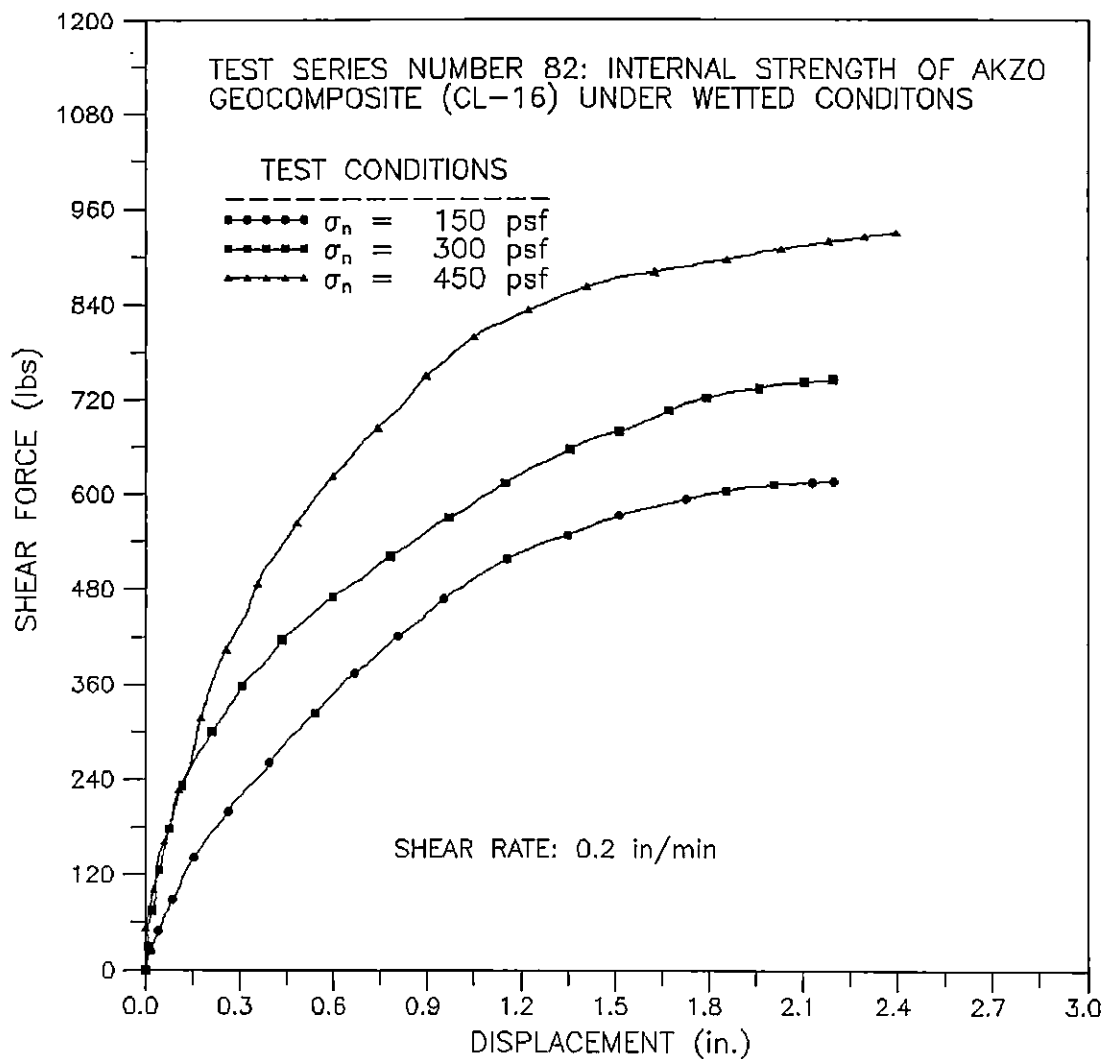


GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.	E-8
PROJECT NO.	GQ3700-03
DOCUMENT NO.	SGI96084
FILE NO.	

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL DIRECT SHEAR TESTING



NOTE: The shear box size was 12 in. by 12 in.(300 mm by 300 mm).

DATE TESTED: 26 SEPTEMBER 1995



GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

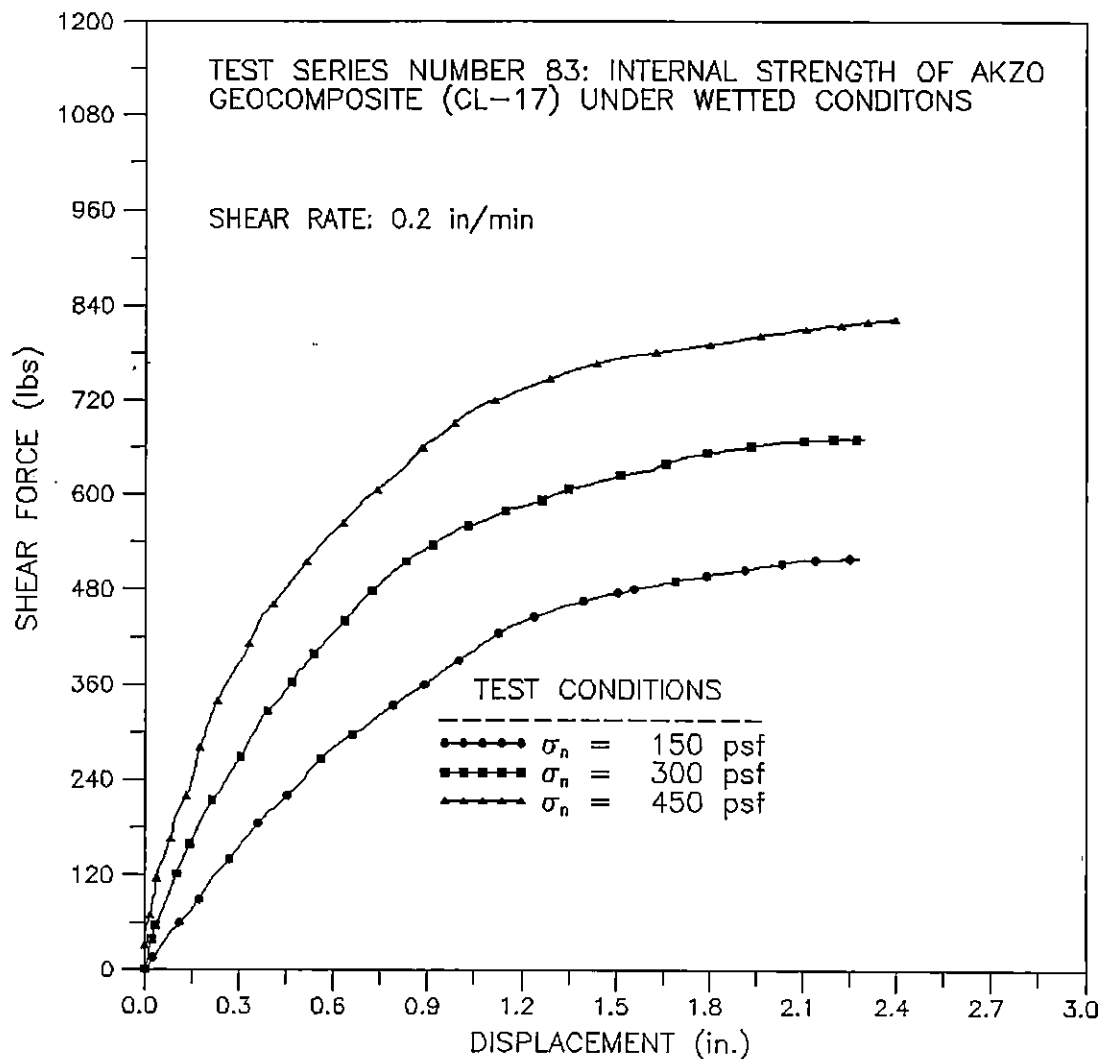
FIGURE NO. E-9

PROJECT NO. GQ3700-03

DOCUMENT NO. GA95336

FILE NO.

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL DIRECT SHEAR TESTING



NOTE: The shear box size was 12 in. by 12 in.(300 mm by 300 mm).

DATE TESTED: 27 SEPTEMBER 1995

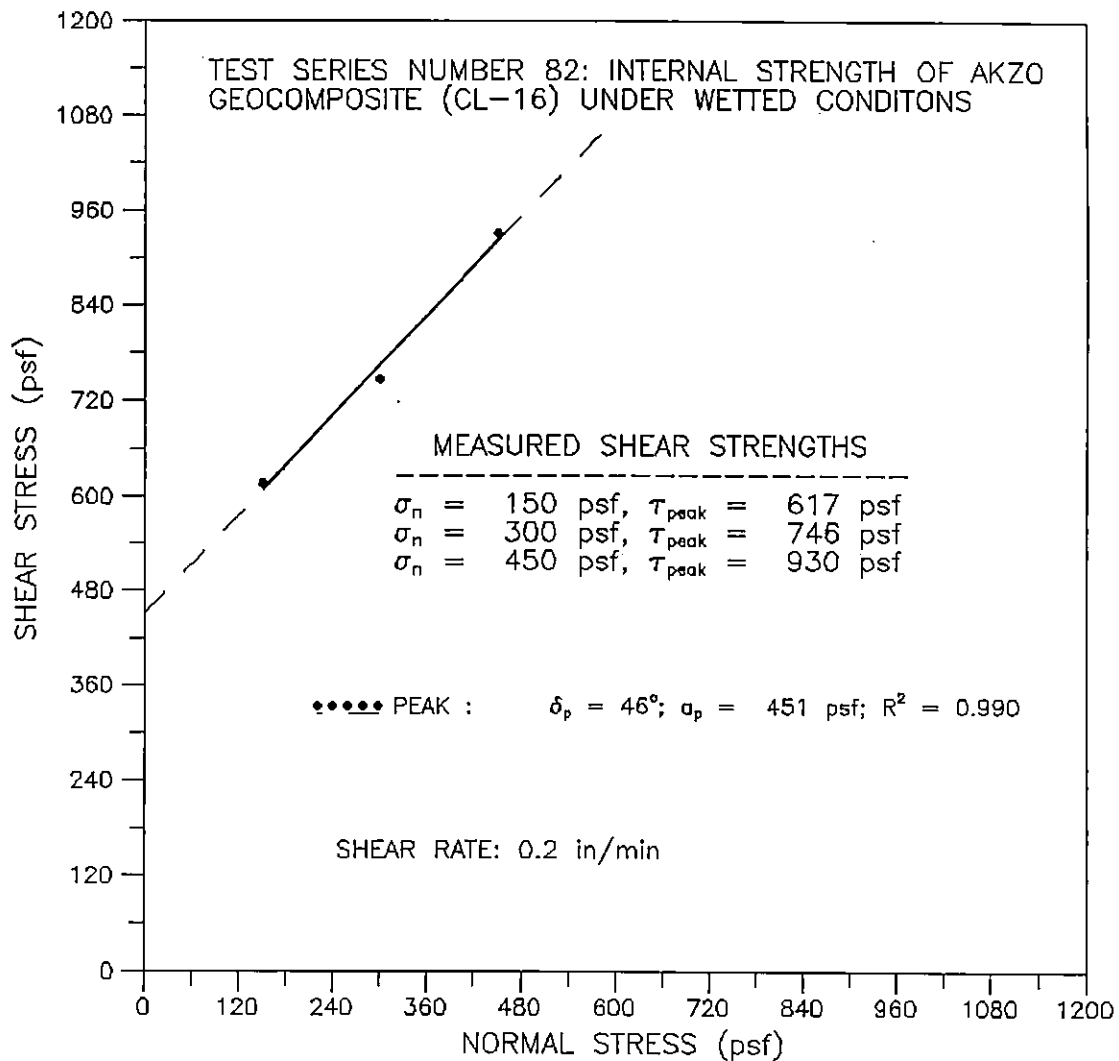


GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.	E-11
PROJECT NO.	GQ3700-03
DOCUMENT NO.	SGI96084
FILE NO.	

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL
DIRECT SHEAR TESTING



- NOTE: (1) The reported value of adhesion may not be the true adhesion of the geocomposite, and caution should be exercised in using this adhesion value for applications involving normal stresses outside the range of stresses covered by the test.
- (2) Shear stresses were calculated assuming a constant shear area 1 ft².

DATE TESTED: 26 SEPTEMBER 1995



GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

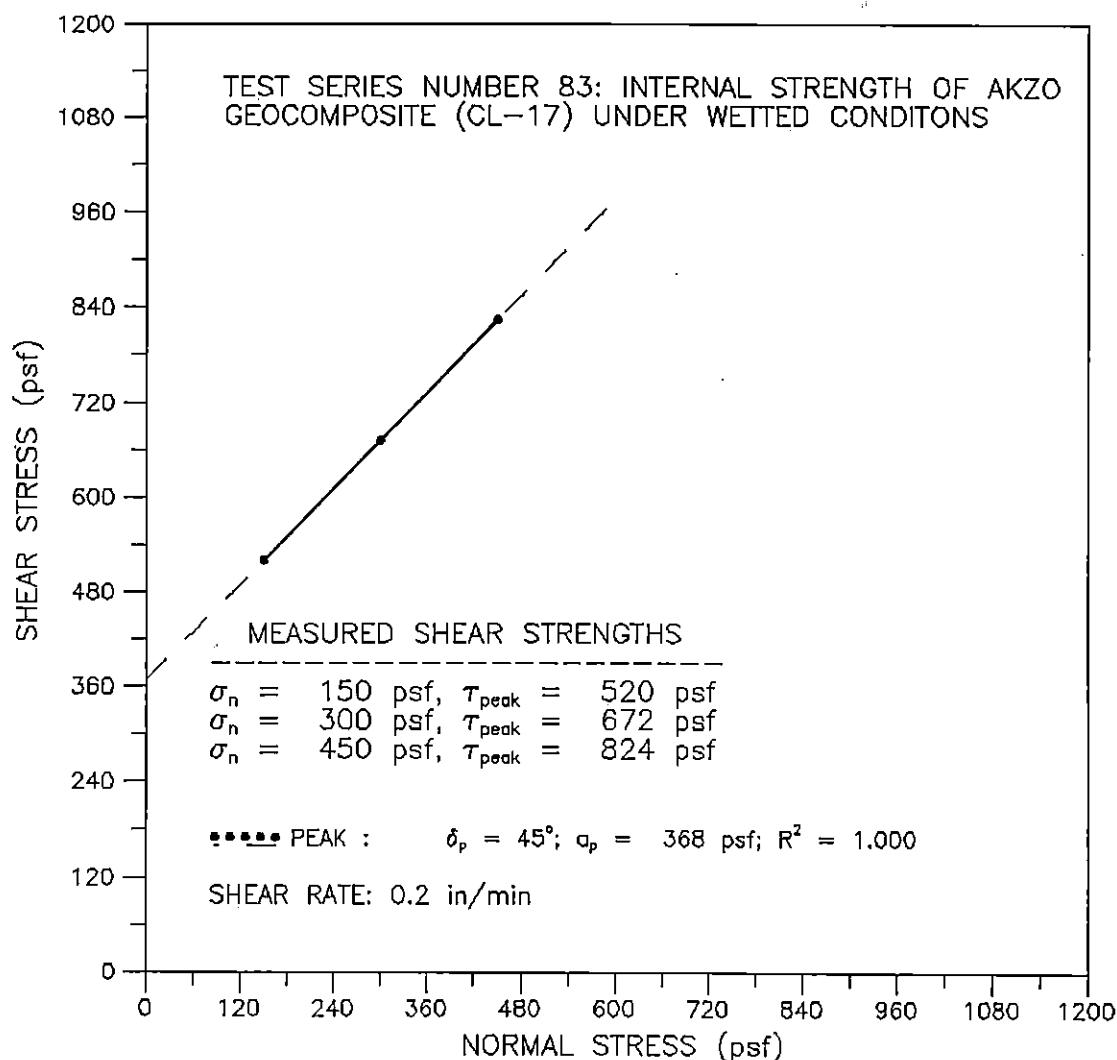
FIGURE NO. E-10

PROJECT NO. GQ3700-03

DOCUMENT NO. GA95115

FILE NO.

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL DIRECT SHEAR TESTING



- NOTE: (1) The reported value of adhesion may not be the true adhesion of the geocomposite, and caution should be exercised in using this adhesion value for applications involving normal stresses outside the range of stresses covered by the test.
- (2) Shear stresses were calculated assuming a constant shear area 1 ft².

DATE TESTED: 27 SEPTEMBER 1995

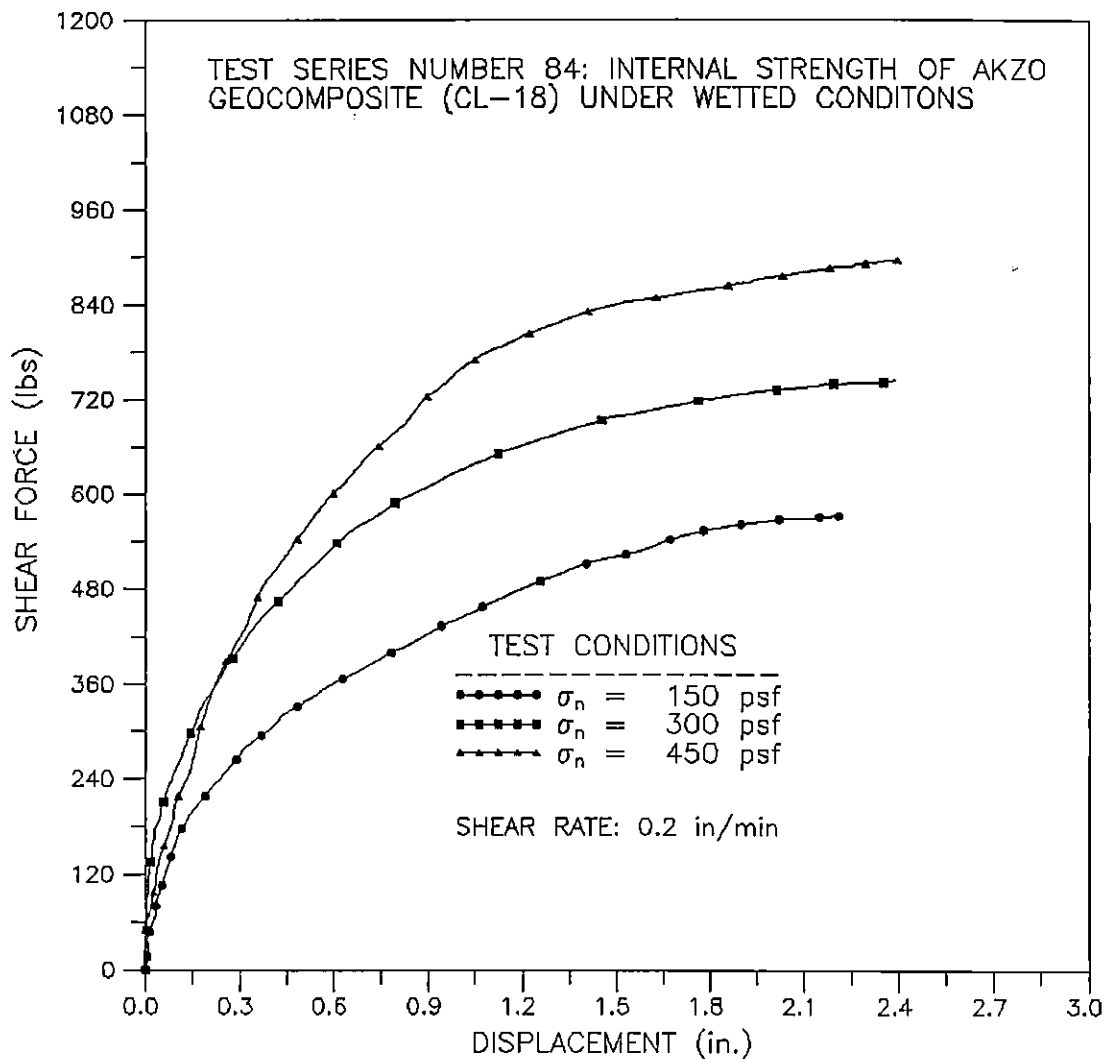


GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.	E-12
PROJECT NO.	GQ3700-03
DOCUMENT NO.	SGI96084
FILE NO.	

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL DIRECT SHEAR TESTING



NOTE: The shear box size was 12 in. by 12 in.(300 mm by 300 mm).

DATE TESTED: 28 SEPTEMBER 1995

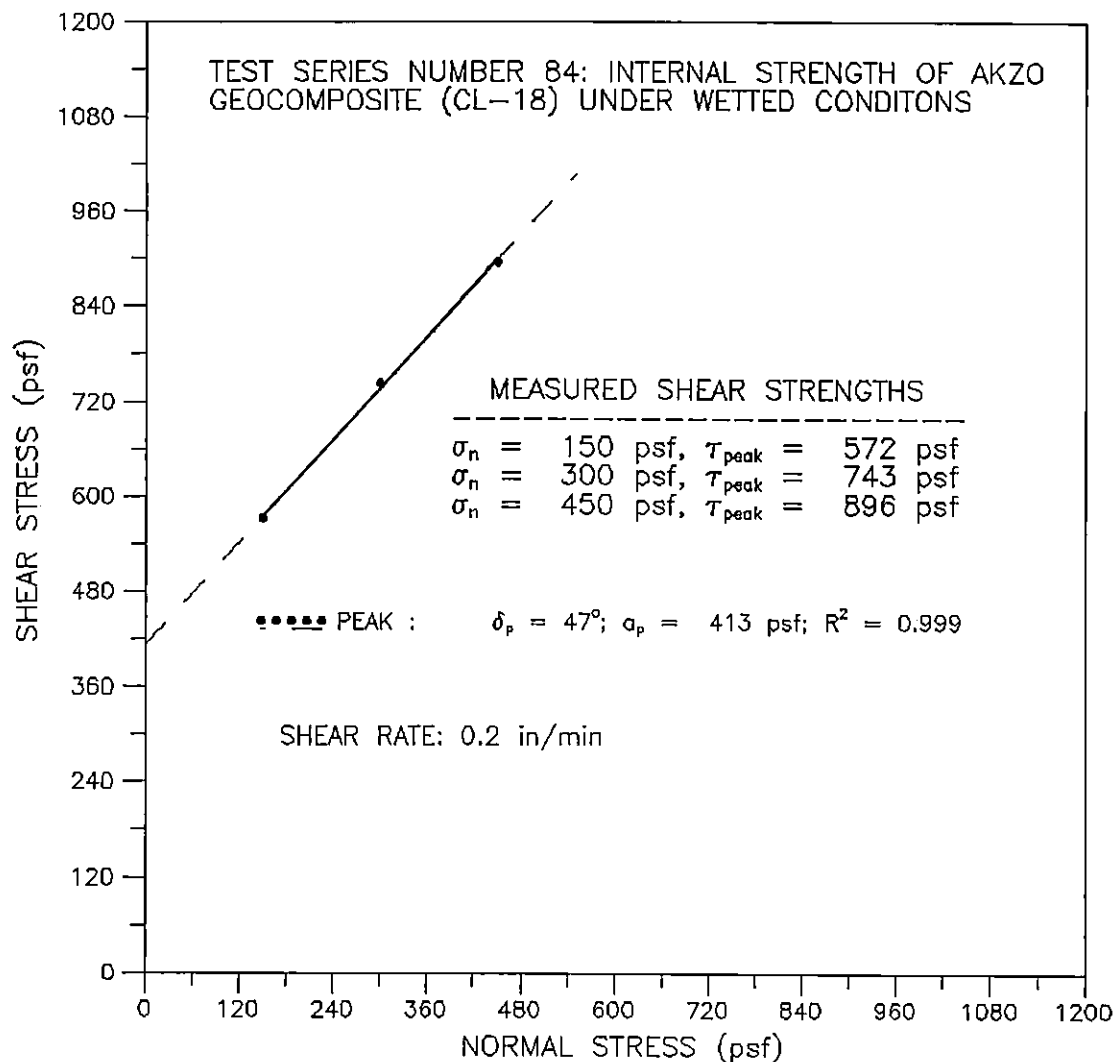


GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.	E-13
PROJECT NO.	GQ3700-03
DOCUMENT NO.	SGI96084
FILE NO.	

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL DIRECT SHEAR TESTING



- NOTE: (1) The reported value of adhesion may not be the true adhesion of the geocomposite, and caution should be exercised in using this adhesion value for applications involving normal stresses outside the range of stresses covered by the test.
- (2) Shear stresses were calculated assuming a constant shear area 1 ft².

DATE TESTED: 28 SEPTEMBER 1995

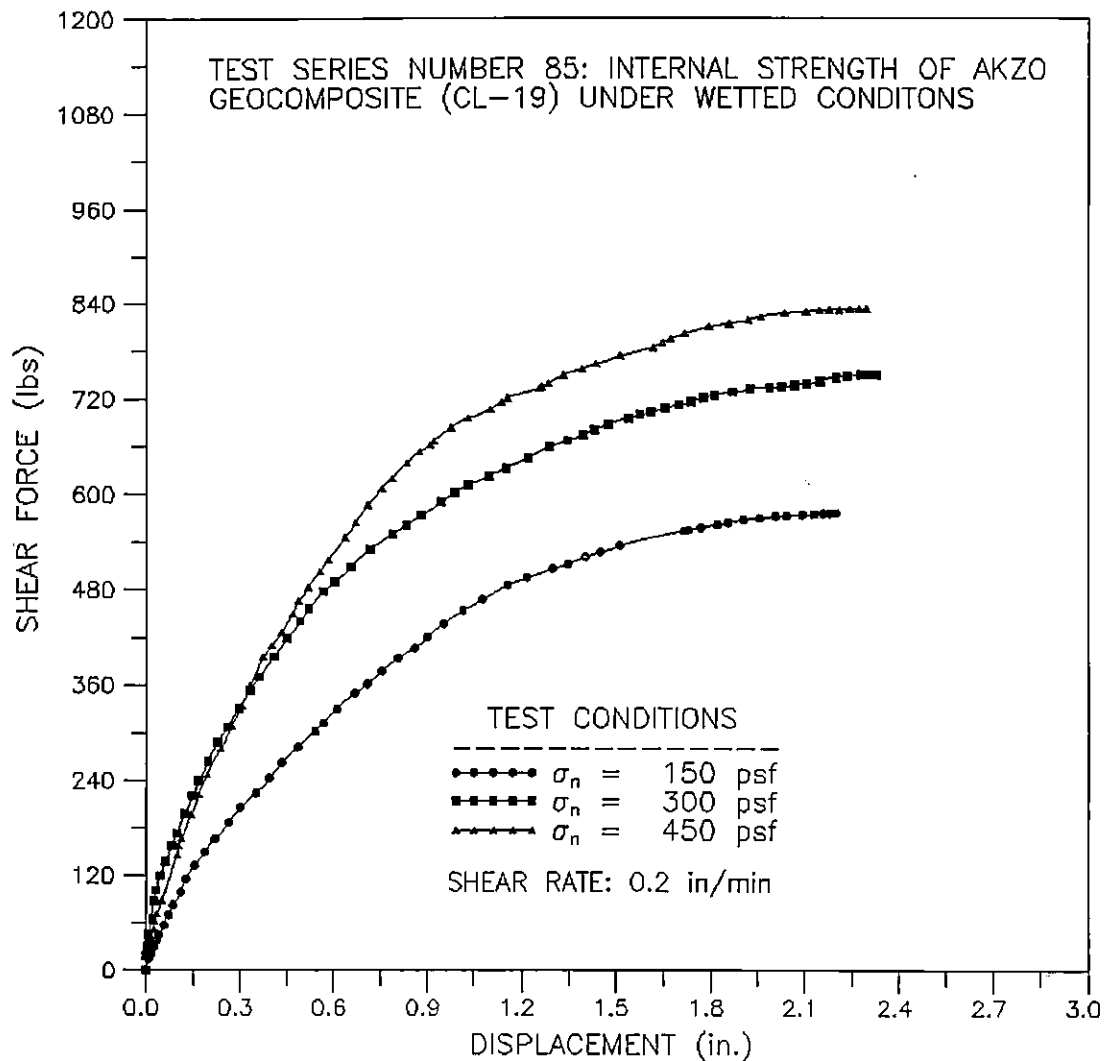


GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.	E-14
PROJECT NO.	GQ3700-03
DOCUMENT NO.	SGI96084
FILE NO.	

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL
DIRECT SHEAR TESTING



NOTE: The shear box size was 12 in. by 12 in.(300 mm by 300 mm).

DATE TESTED: 29 SEPTEMBER 1995

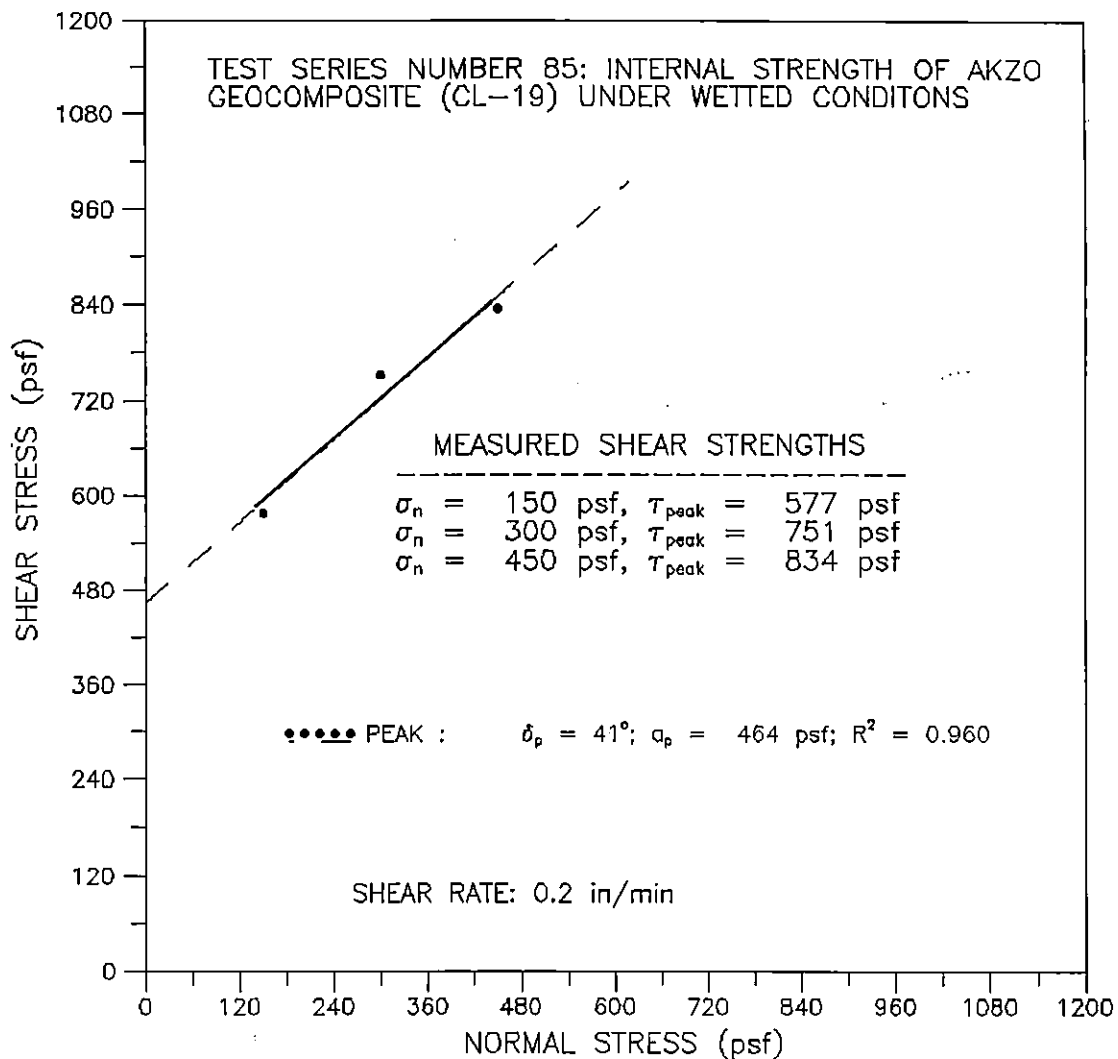


GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.	E-15
PROJECT NO.	GQ3700-03
DOCUMENT NO.	SGI96084
FILE NO.	

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL DIRECT SHEAR TESTING



- NOTE: (1) The reported value of adhesion may not be the true adhesion of the geocomposite, and caution should be exercised in using this adhesion value for applications involving normal stresses outside the range of stresses covered by the test.
- (2) Shear stresses were calculated assuming a constant shear area 1 ft².

DATE TESTED: 29 SEPTEMBER 1995



GEO SYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

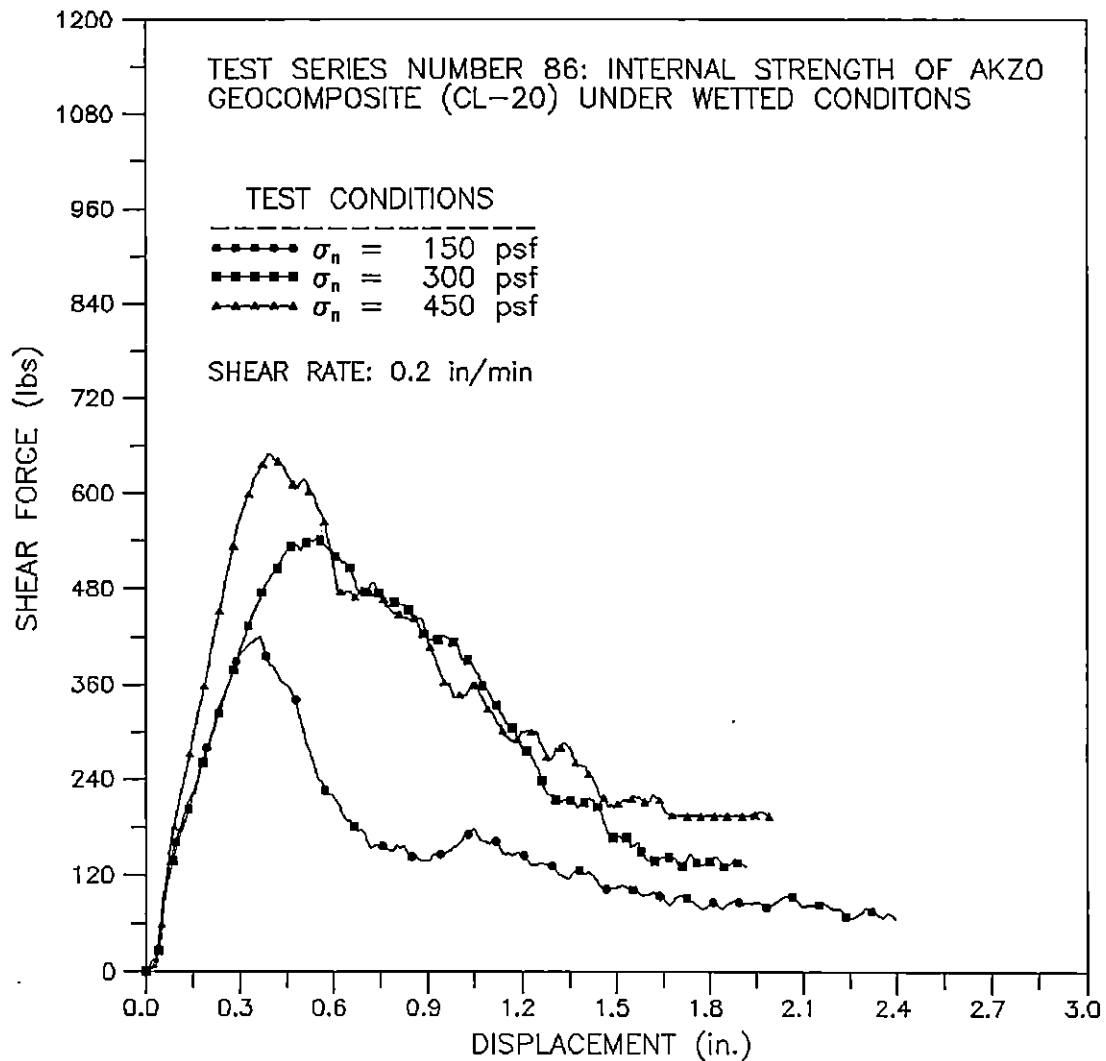
FIGURE NO. E-16

PROJECT NO. GQ3700-03

DOCUMENT NO. SG196084

FILE NO.

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL
DIRECT SHEAR TESTING



NOTE: The shear box size was 12 in. by 12 in.(300 mm by 300 mm).

DATE TESTED: 2 OCTOBER 1995

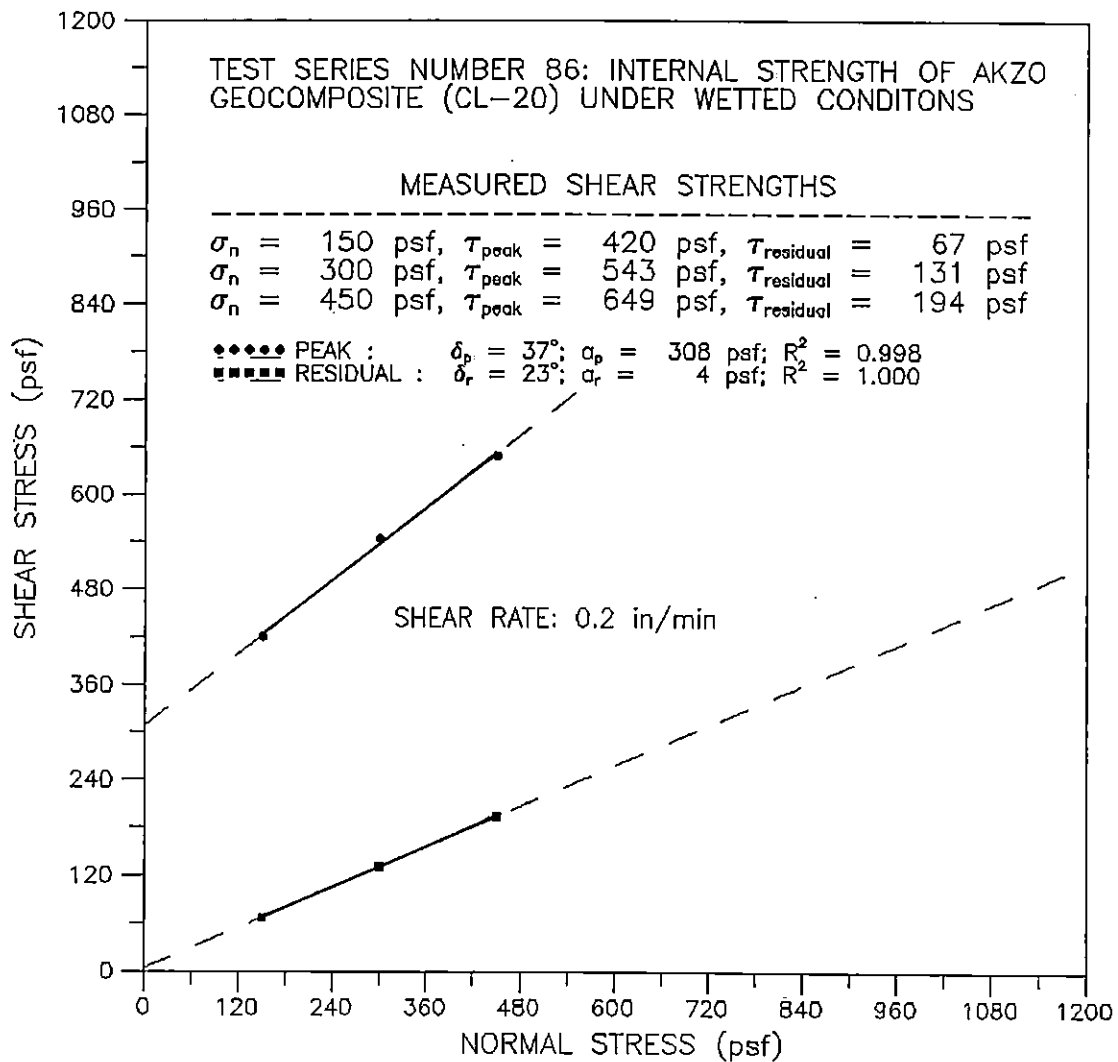


GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.	E-17
PROJECT NO.	GQ3700-03
DOCUMENT NO.	SGI96084
FILE NO.	

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL DIRECT SHEAR TESTING



- NOTE: (1) The reported value of adhesion may not be the true adhesion of the geocomposite, and caution should be exercised in using this adhesion value for applications involving normal stresses outside the range of stresses covered by the test.
- (2) Shear stresses were calculated assuming a constant shear area 1 ft².

DATE TESTED: 2 OCTOBER 1995

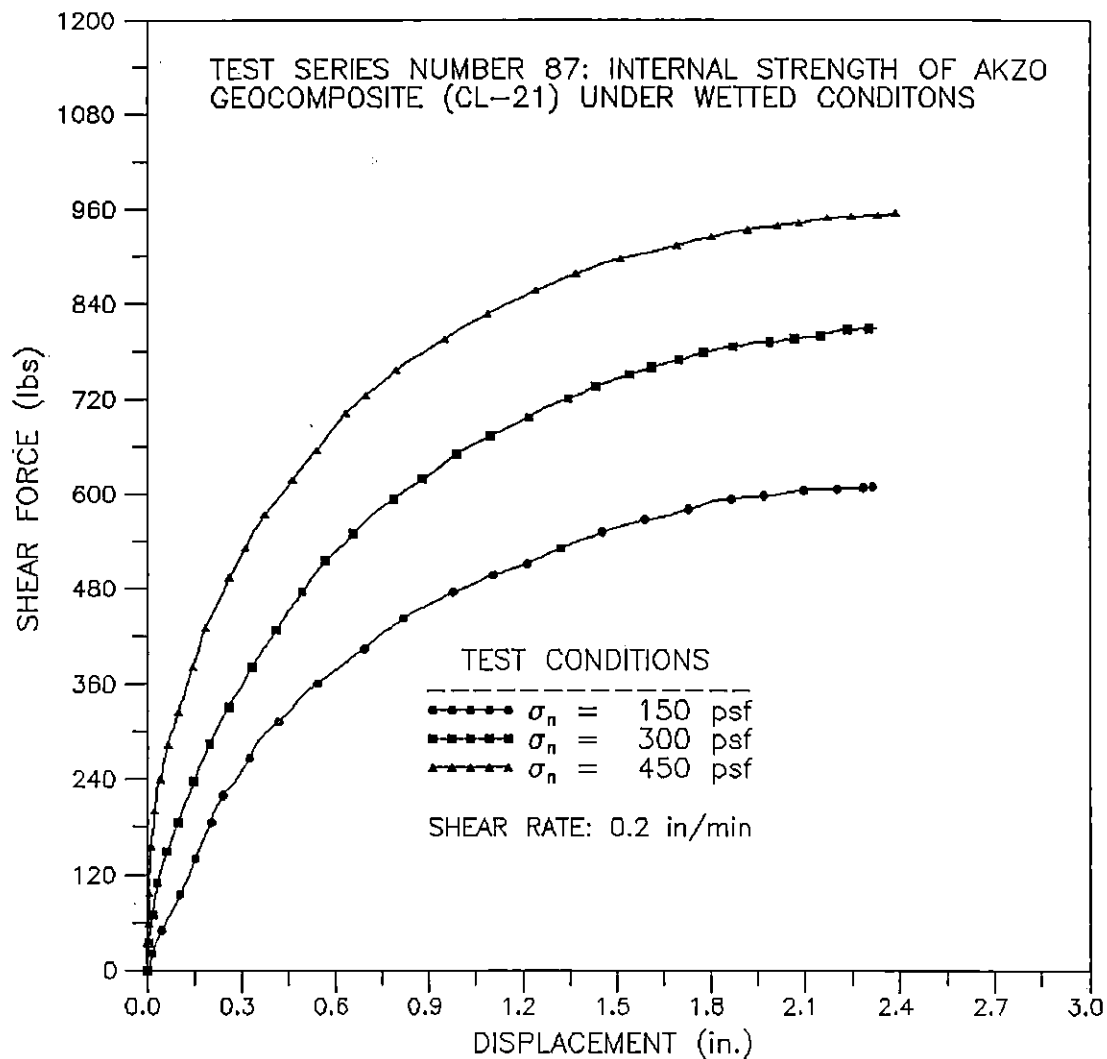


GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.	E-18
PROJECT NO.	GQ3700-03
DOCUMENT NO.	SGI96084
FILE NO.	

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL DIRECT SHEAR TESTING



NOTE: The shear box size was 12 in. by 12 in.(300 mm by 300 mm).

DATE TESTED: 3 OCTOBER 1995

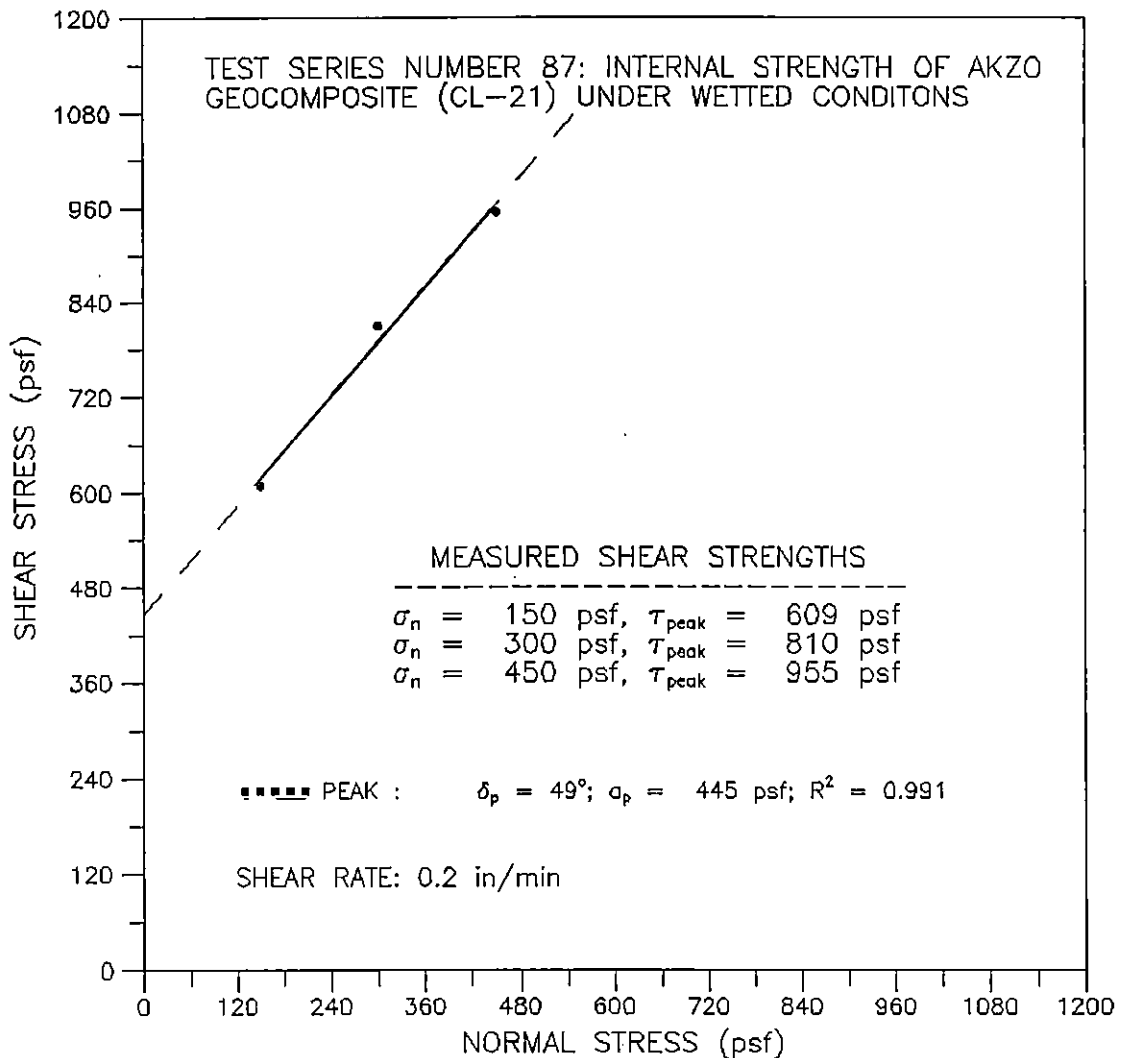


GEO SYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.	E-19
PROJECT NO.	GQ3700-03
DOCUMENT NO.	SGI96084
FILE NO.	

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL
DIRECT SHEAR TESTING



- NOTE: (1) The reported value of adhesion may not be the true adhesion of the geocomposite, and caution should be exercised in using this adhesion value for applications involving normal stresses outside the range of stresses covered by the test.
- (2) Shear stresses were calculated assuming a constant shear area 1 ft².

DATE TESTED: 3 OCTOBER 1995



GEO SYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

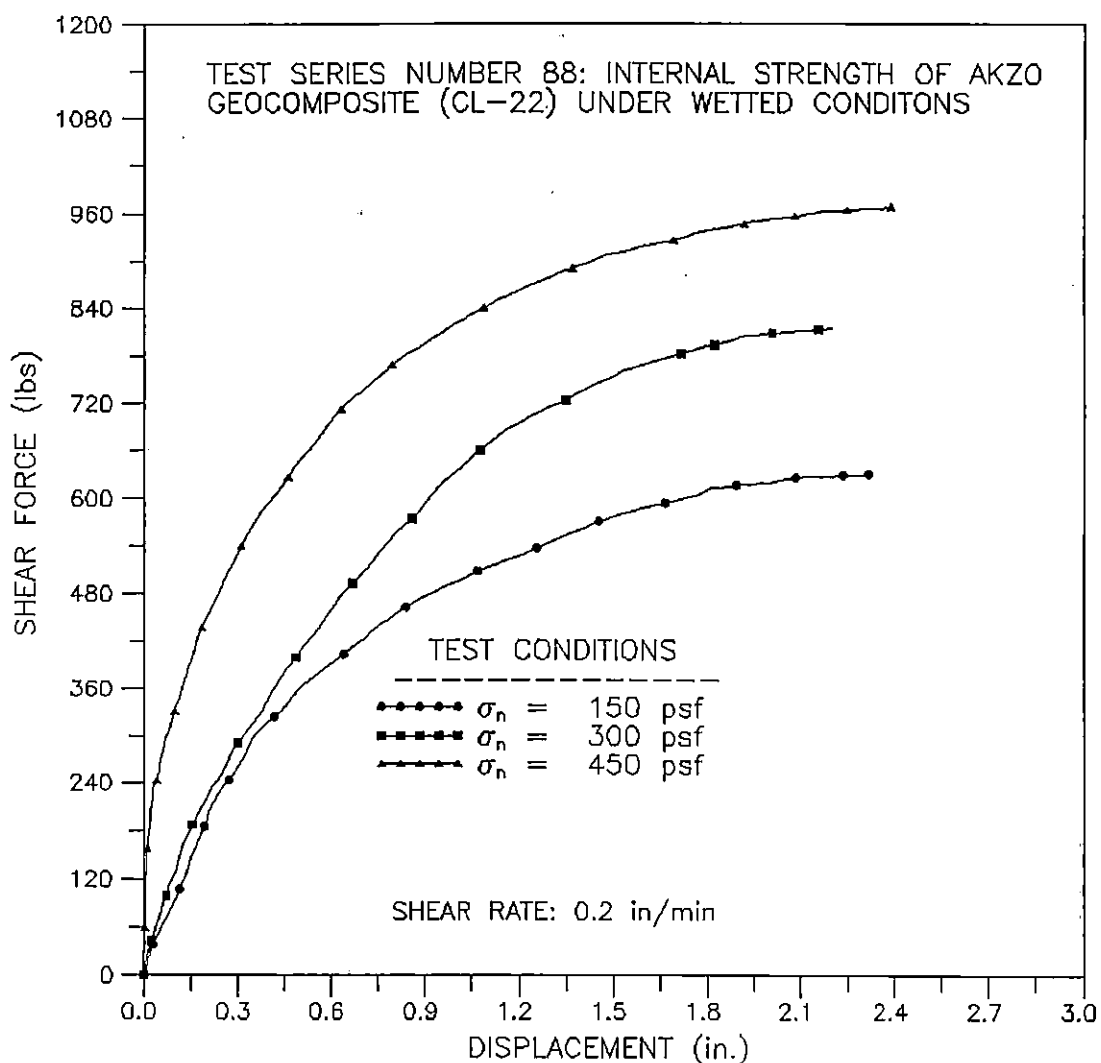
FIGURE NO. E-20

PROJECT NO. GQ3700-03

DOCUMENT NO. SG196084

FILE NO.

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL DIRECT SHEAR TESTING



NOTE: The shear box size was 12 in. by 12 in.(300 mm by 300 mm).

DATE TESTED: 5 OCTOBER 1995



GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

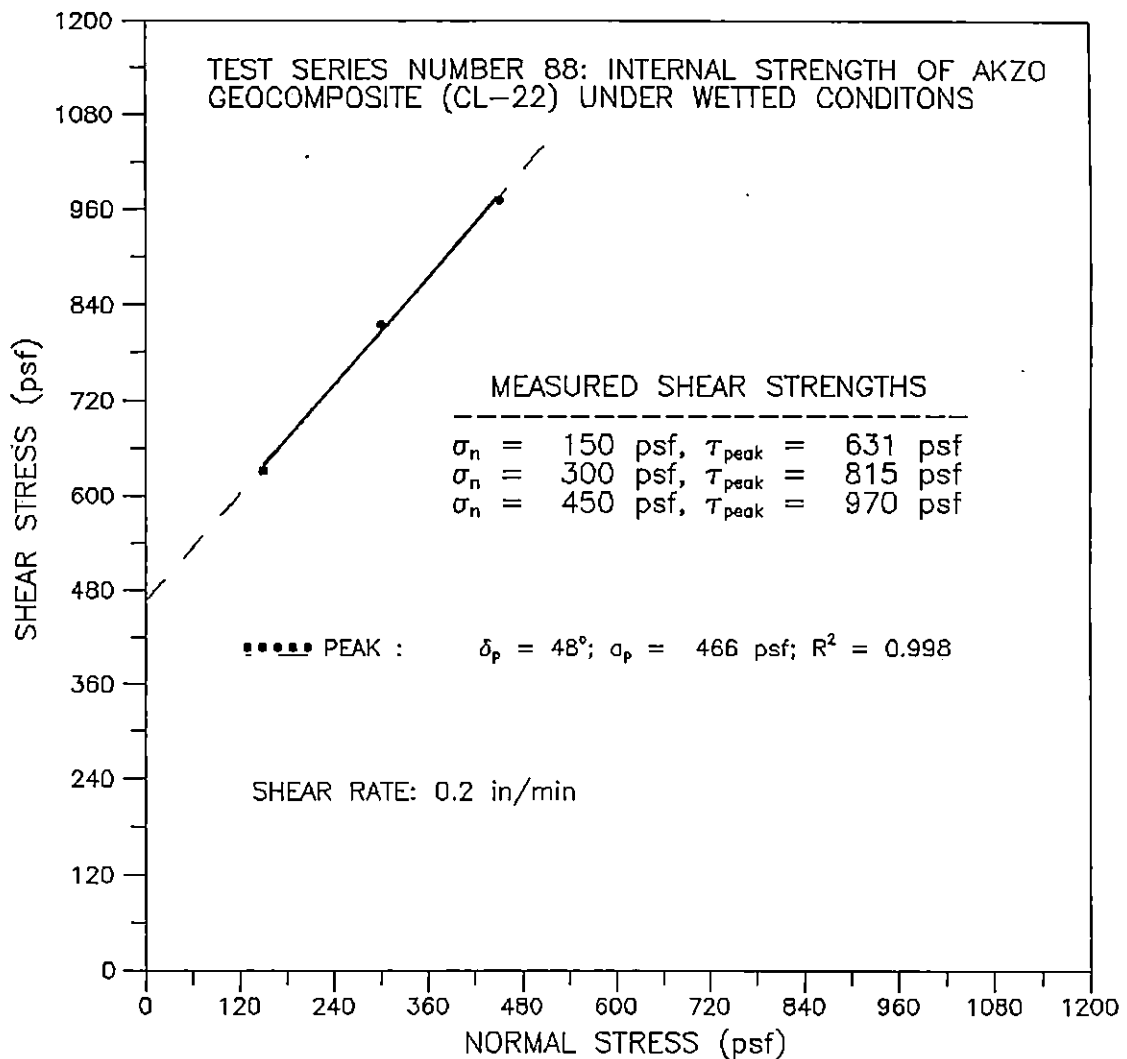
FIGURE NO. E-21

PROJECT NO. GQ3700-03

DOCUMENT NO. SGI96084

FILE NO.

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL
DIRECT SHEAR TESTING



- NOTE: (1) The reported value of adhesion may not be the true adhesion of the geocomposite, and caution should be exercised in using this adhesion value for applications involving normal stresses outside the range of stresses covered by the test.
- (2) Shear stresses were calculated assuming a constant shear area 1 ft².

DATE TESTED: 5 OCTOBER 1995



GEO SYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

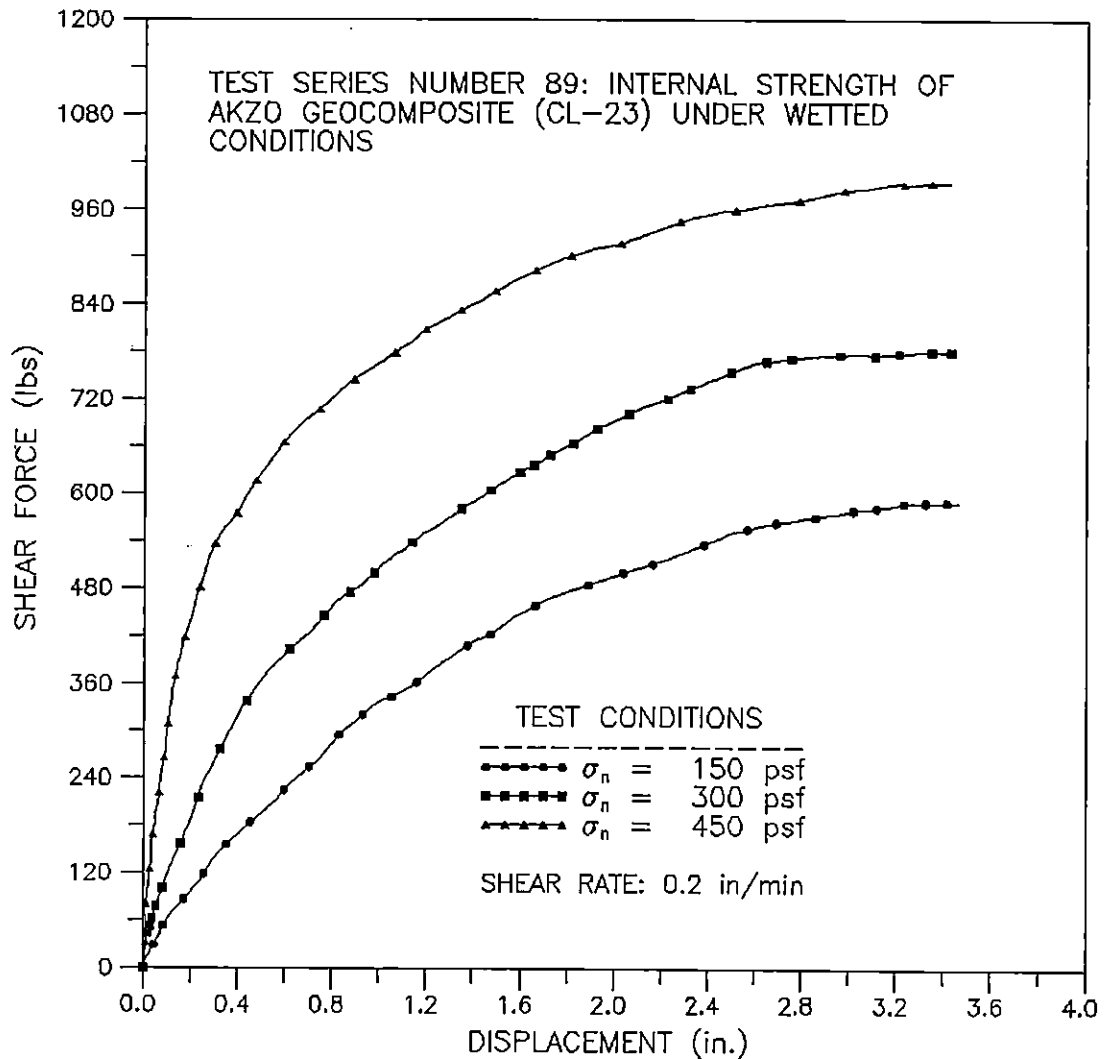
FIGURE NO. E-22

PROJECT NO. GQ3700-03

DOCUMENT NO. SGI96084

FILE NO.

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL
DIRECT SHEAR TESTING



NOTE: The shear box size was 12 in. by 12 in.(300 mm by 300 mm).

DATE TESTED: 6 OCTOBER 1996

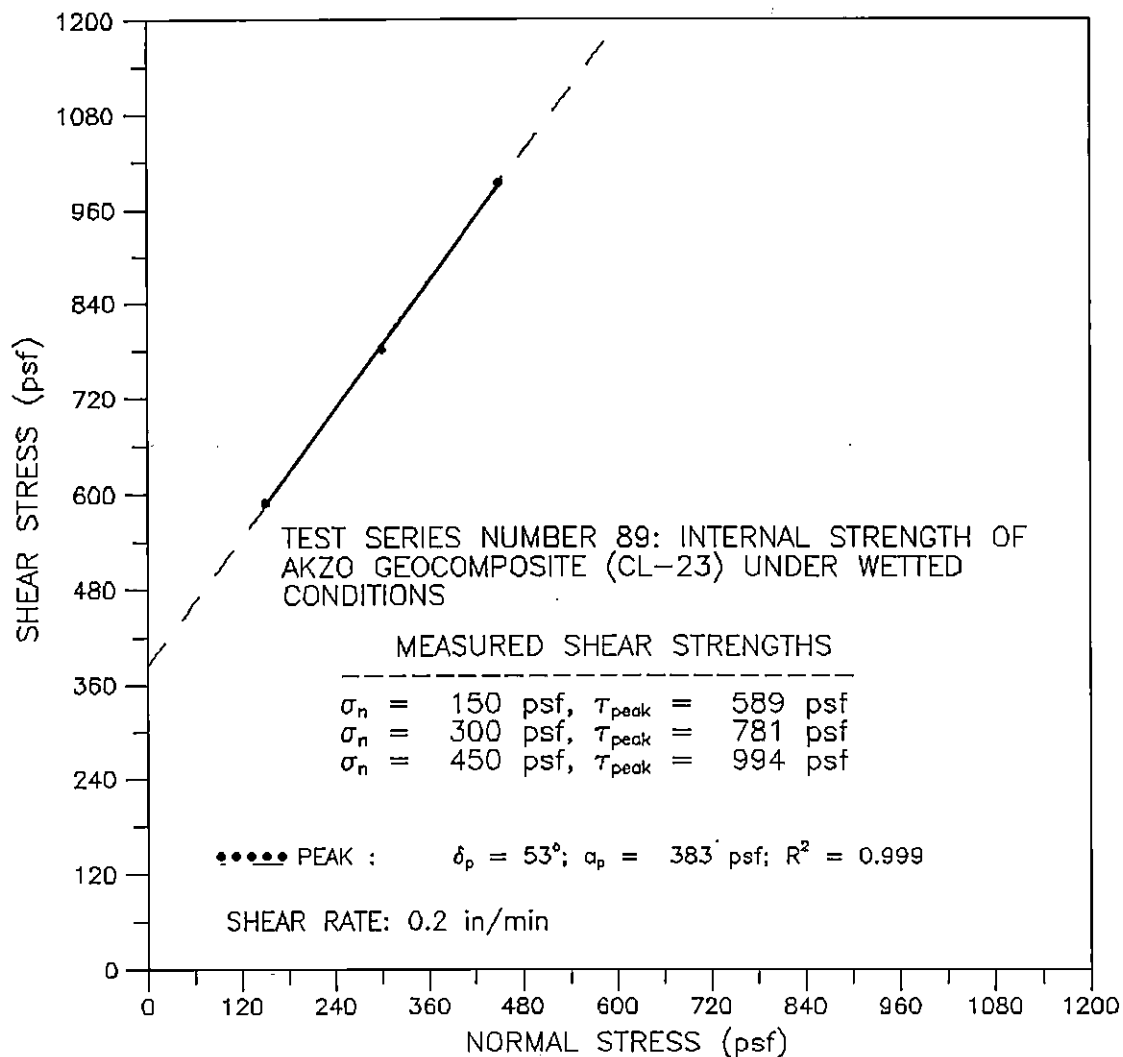


GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.	E-23
PROJECT NO.	GQ3700-03
DOCUMENT NO.	SGI96084
FILE NO.	

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL DIRECT SHEAR TESTING



- NOTE: (1) The reported value of adhesion may not be the true adhesion of the geocomposite, and caution should be exercised in using this adhesion value for applications involving normal stresses outside the range of stresses covered by the test.
- (2) Shear stresses were calculated assuming a constant shear area 1 ft².

DATE TESTED: 6 OCTOBER 1996

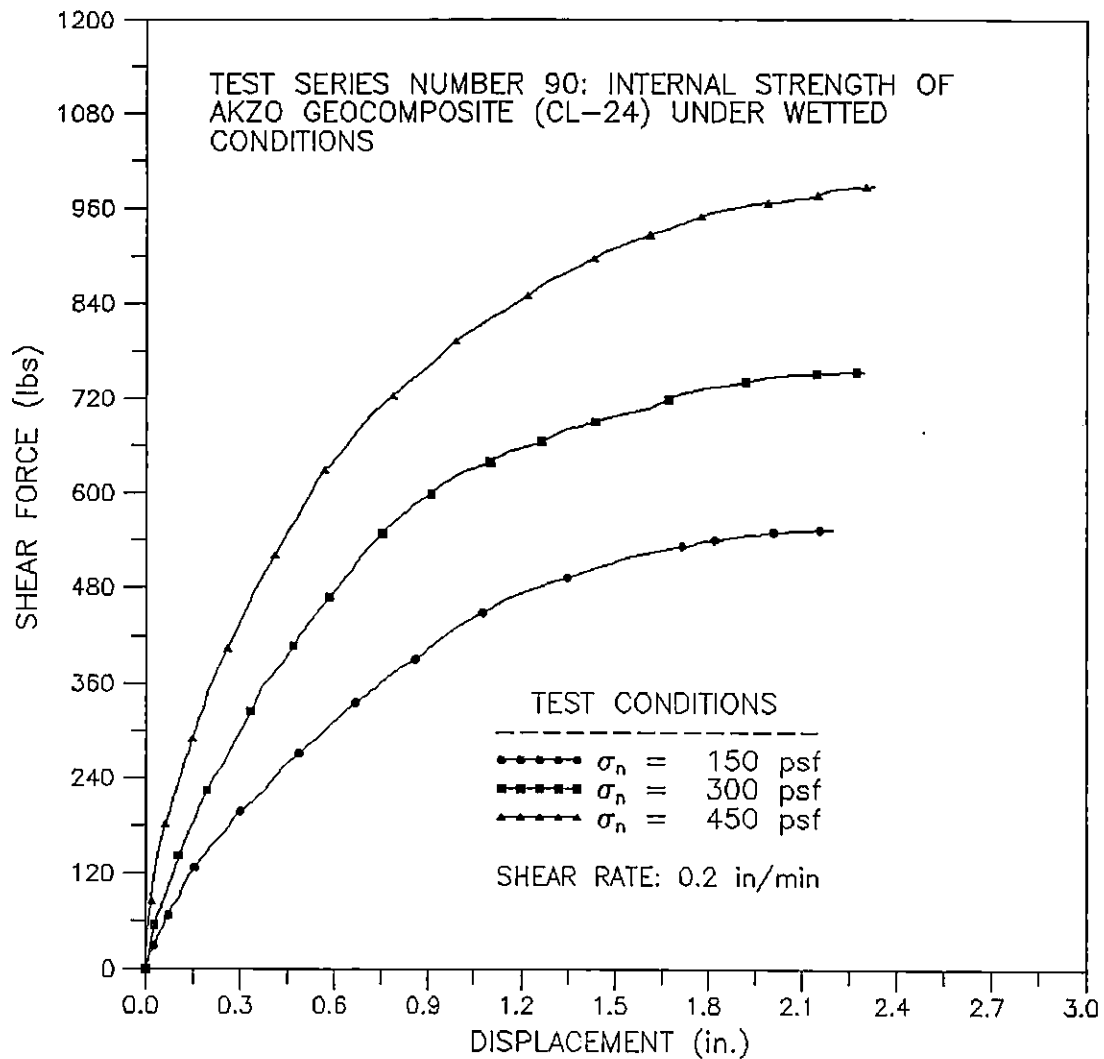


GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.	F-24
PROJECT NO.	GQ3700-03
DOCUMENT NO.	SGI96084
FILE NO.	

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL
DIRECT SHEAR TESTING



NOTE: The shear box size was 12 in. by 12 in.(300 mm by 300 mm).

DATE TESTED: 10 OCTOBER 1995



GeoSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

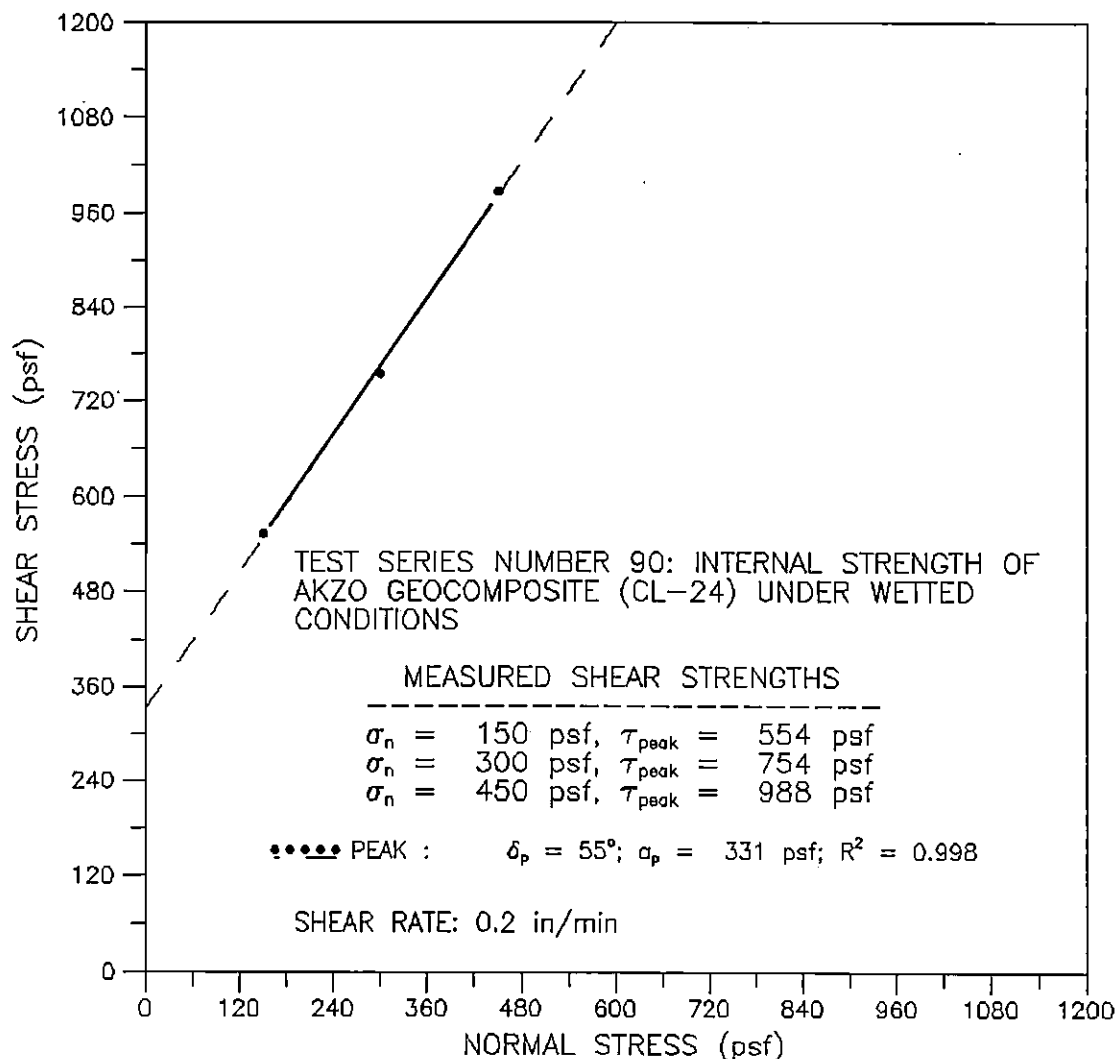
FIGURE NO. E-25

PROJECT NO. GQ3700-03

DOCUMENT NO. SG196084

FILE NO.

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL DIRECT SHEAR TESTING



- NOTE: (1) The reported value of adhesion may not be the true adhesion of the geocomposite, and caution should be exercised in using this adhesion value for applications involving normal stresses outside the range of stresses covered by the test.
- (2) Shear stresses were calculated assuming a constant shear area 1 ft².

DATE TESTED: 10 OCTOBER 1995



GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

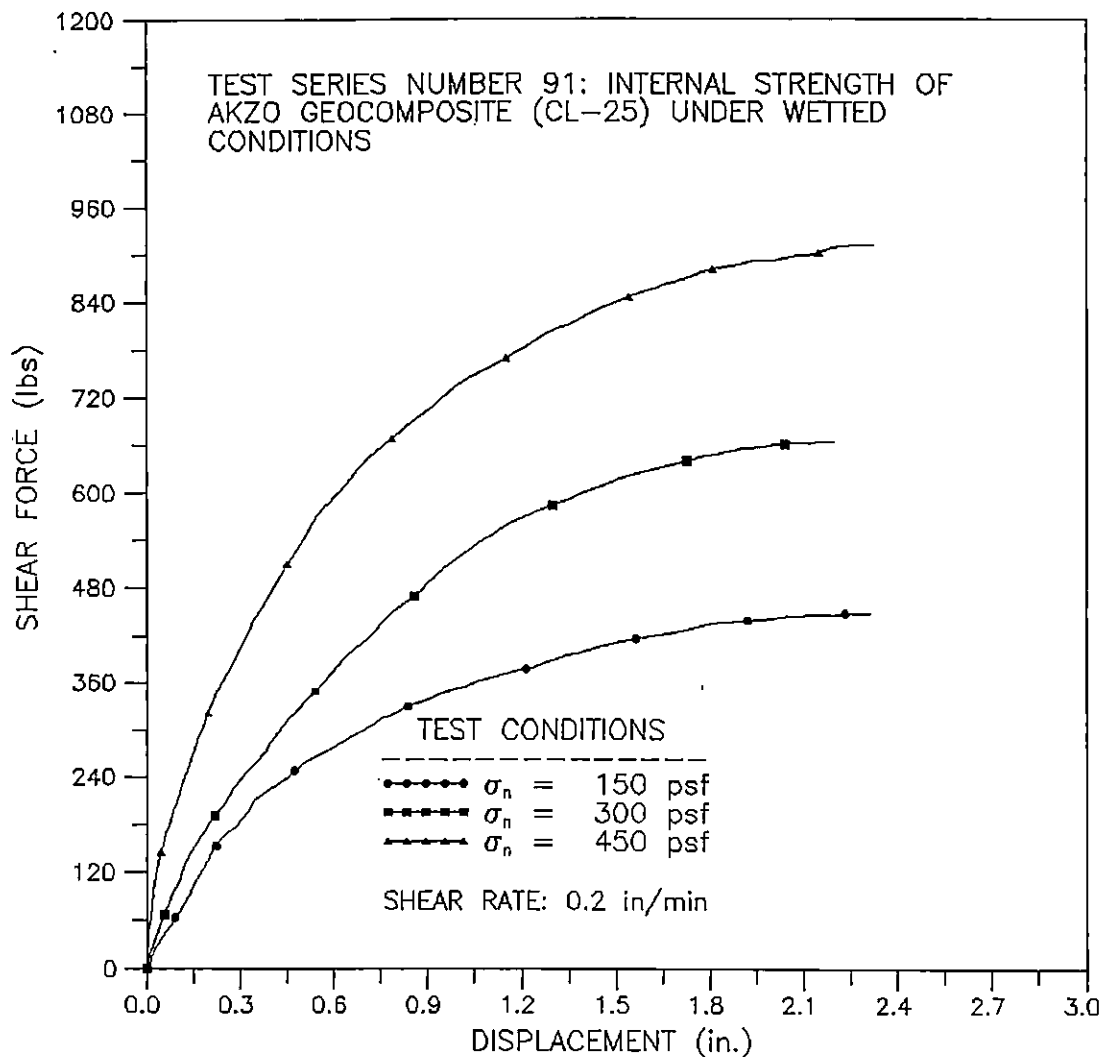
FIGURE NO. E-26

PROJECT NO. G03700-03

DOCUMENT NO. SQI96084

FILE NO.

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL DIRECT SHEAR TESTING



NOTE: The shear box size was 12 in. by 12 in. (300 mm by 300 mm).

DATE TESTED: 11 OCTOBER 1995

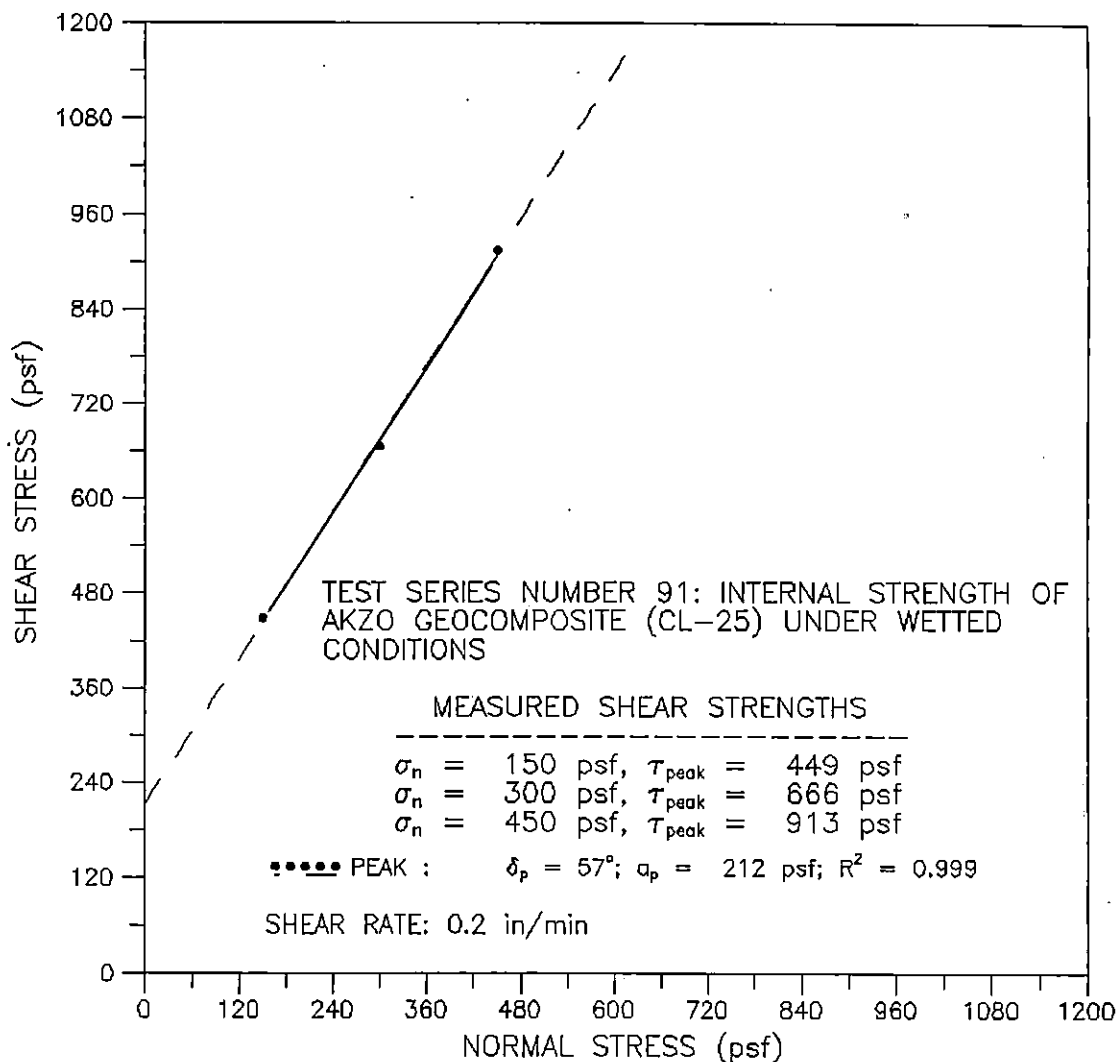


GeoSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.	E-27
PROJECT NO.	GQ3700-03
DOCUMENT NO.	SGI96084
FILE NO.	

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL
DIRECT SHEAR TESTING



- NOTE: (1) The reported value of adhesion may not be the true adhesion of the geocomposite, and caution should be exercised in using this adhesion value for applications involving normal stresses outside the range of stresses covered by the test.
- (2) Shear stresses were calculated assuming a constant shear area 1 ft².

DATE TESTED: 11 OCTOBER 1995



GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.	E-28
PROJECT NO.	G03700-03
DOCUMENT NO.	SGI96084
FILE NO.	

TEST SERIES NUMBER 92: INTERNAL STRENGTH OF AKZO GEOCOMPOSITE (CL-26) UNDER WETTED CONDITIONS

SHEAR RATE: 0.2 in/min

TEST CONDITIONS

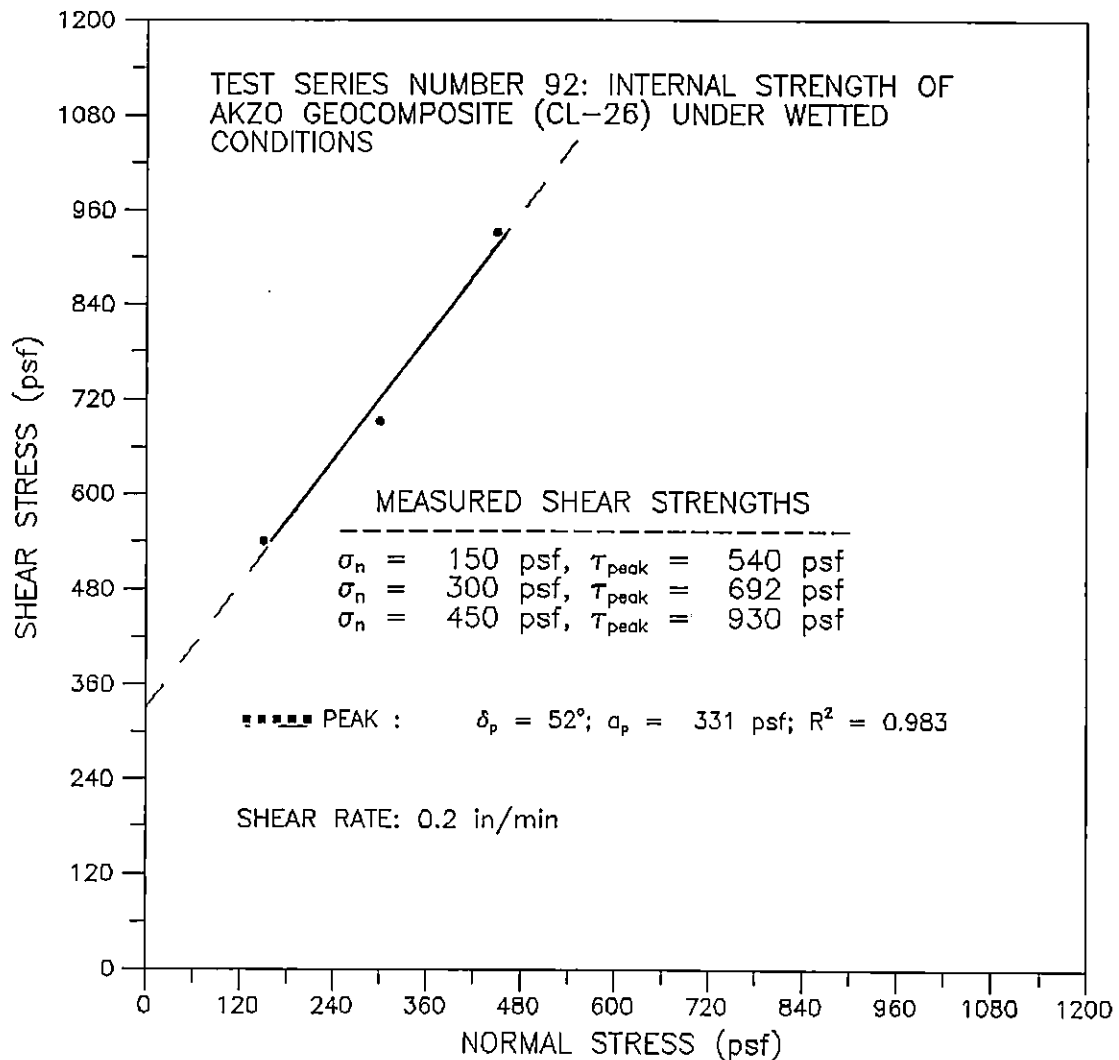
- $\sigma_n = 150$ psf
- $\sigma_n = 300$ psf
- $\sigma_n = 450$ psf

Displacement (in.)	Shear Force (lbs) at $\sigma_n = 150$ psf	Shear Force (lbs) at $\sigma_n = 300$ psf	Shear Force (lbs) at $\sigma_n = 450$ psf
0.0	0	0	0
0.3	120	150	250
0.6	250	300	550
0.9	350	450	750
1.2	420	550	820
1.5	450	620	850
1.8	460	680	900
2.1	480	720	940
2.4	490	740	950



FILE NO.

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL
DIRECT SHEAR TESTING



- NOTE: (1) The reported value of adhesion may not be the true adhesion of the geocomposite, and caution should be exercised in using this adhesion value for applications involving normal stresses outside the range of stresses covered by the test.
- (2) Shear stresses were calculated assuming a constant shear area 1 ft².

DATE TESTED: 13 OCTOBER 1995

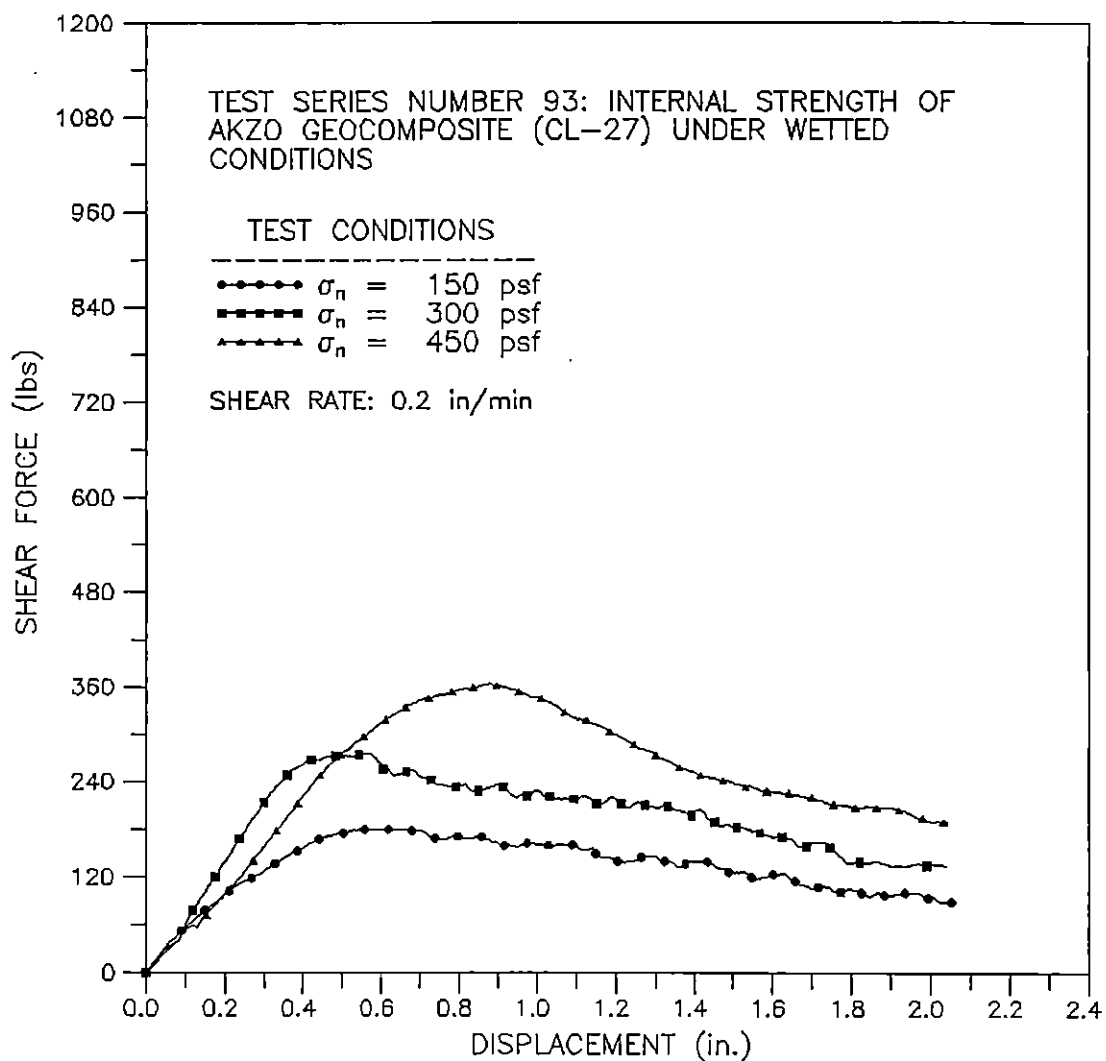


GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.	E-30
PROJECT NO.	GQ3700-03
DOCUMENT NO.	SGI96084
FILE NO.	

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL DIRECT SHEAR TESTING



NOTE: The shear box size was 12 in. by 12 in.(300 mm by 300 mm).

DATE TESTED: 13 OCTOBER 1995



GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

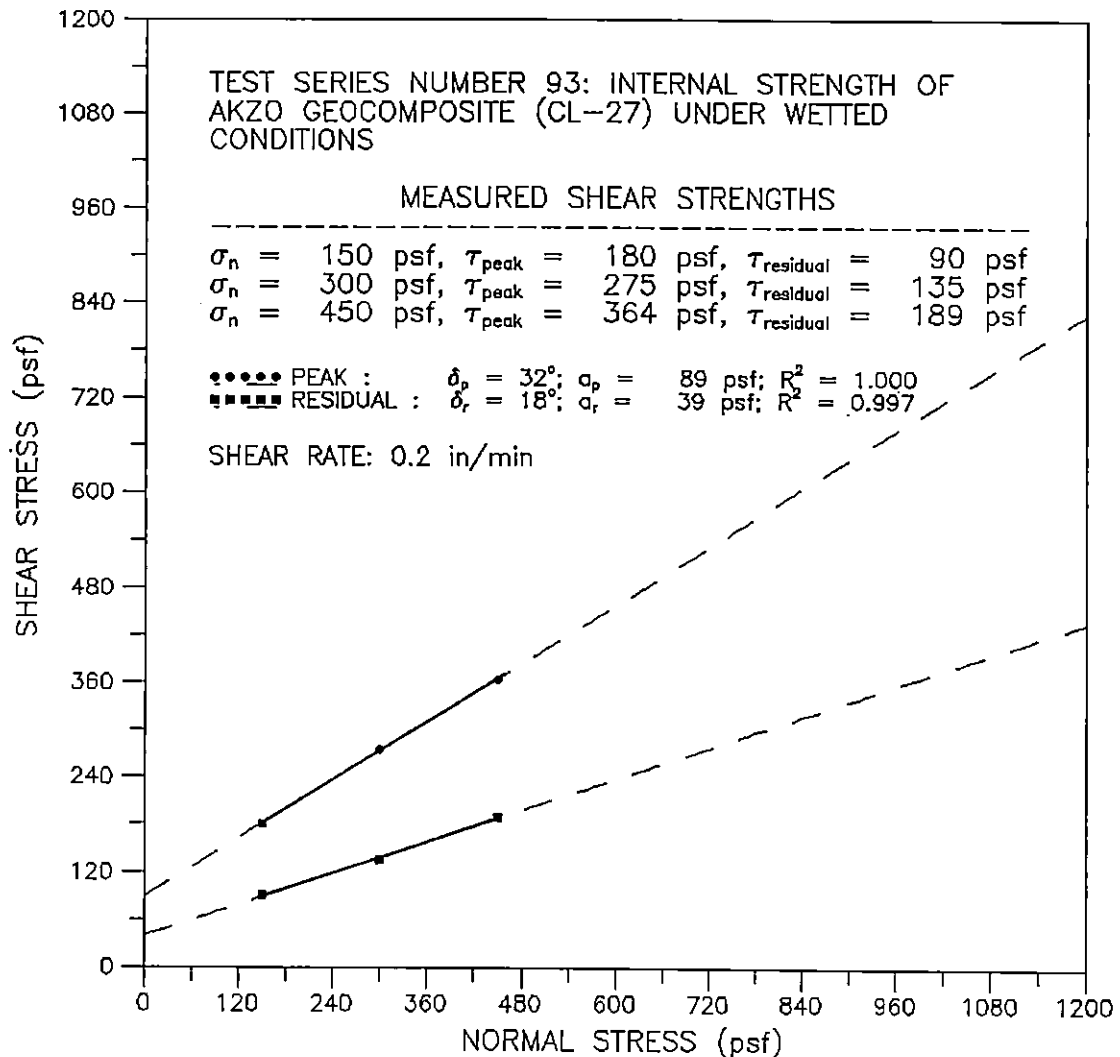
FIGURE NO. E-31

PROJECT NO. GQ3700-03

DOCUMENT NO. SGI96084

FILE NO.

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL DIRECT SHEAR TESTING



- NOTE: (1) The reported value of adhesion may not be the true adhesion of the geocomposite, and caution should be exercised in using this adhesion value for applications involving normal stresses outside the range of stresses covered by the test.
- (2) Shear stresses were calculated assuming a constant shear area 1 ft².

DATE TESTED: 13 OCTOBER 1995



GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

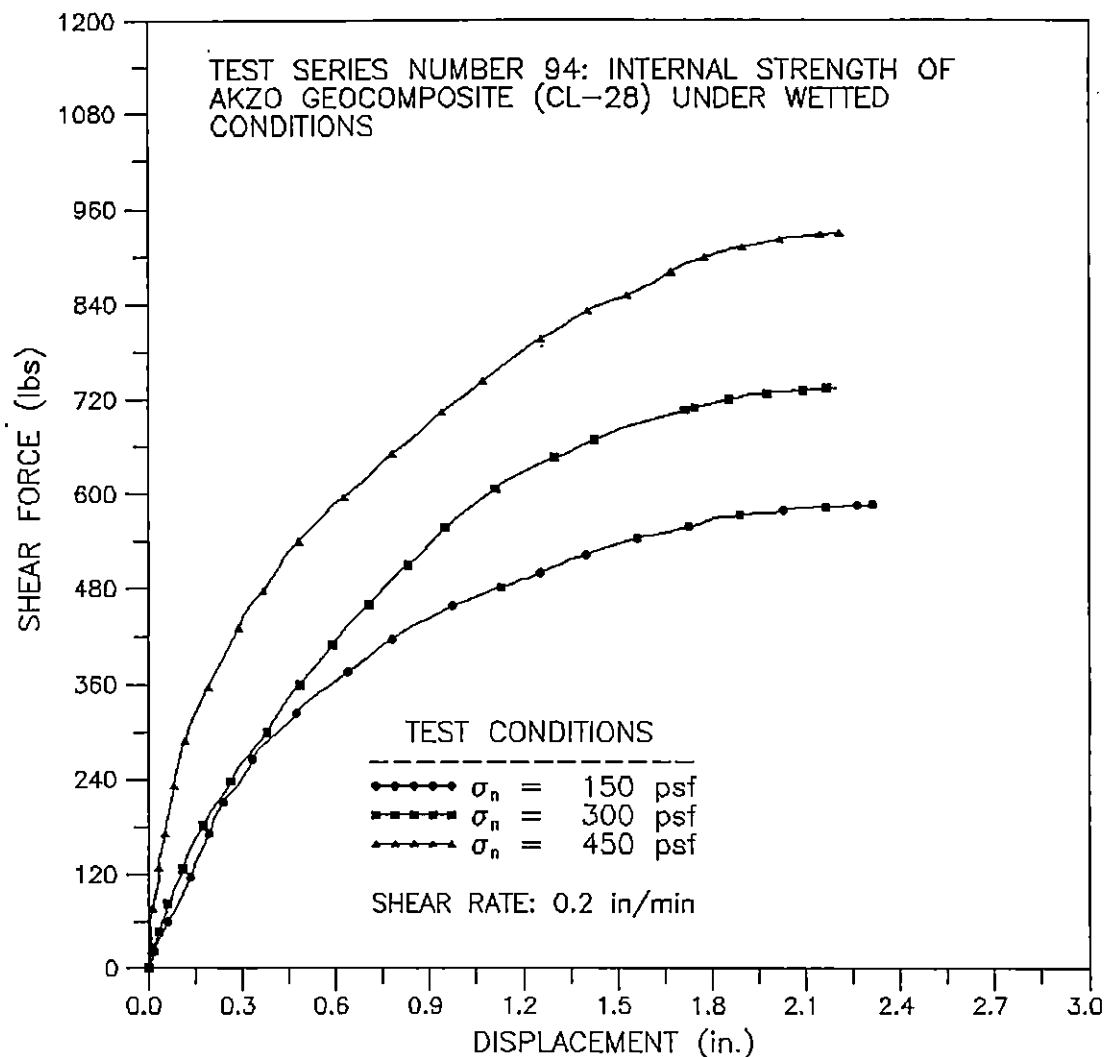
FIGURE NO. E-32

PROJECT NO. GQ3700-03

DOCUMENT NO. SG196084

FILE NO.

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL DIRECT SHEAR TESTING



NOTE: The shear box size was 12 in. by 12 in.(300 mm by 300 mm).

DATE TESTED: 20 OCTOBER 1995

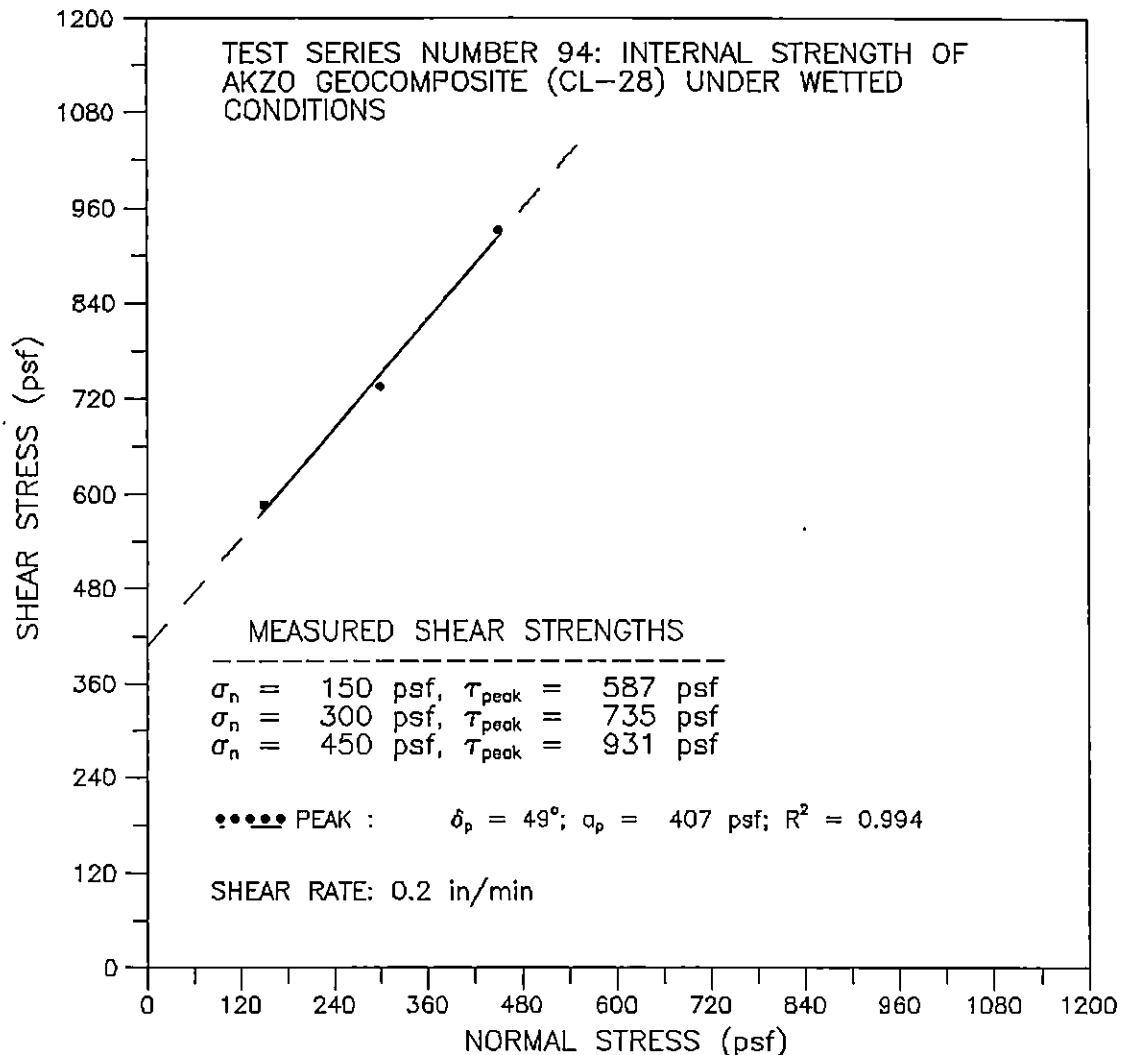


GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.	F-33
PROJECT NO.	GQ3700-03
DOCUMENT NO.	SGI96084
FILE NO.	

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL DIRECT SHEAR TESTING



- NOTE: (1) The reported value of adhesion may not be the true adhesion of the geocomposite, and caution should be exercised in using this adhesion value for applications involving normal stresses outside the range of stresses covered by the test.
- (2) Shear stresses were calculated assuming a constant shear area 1 ft².

DATE TESTED: 20 OCTOBER 1995

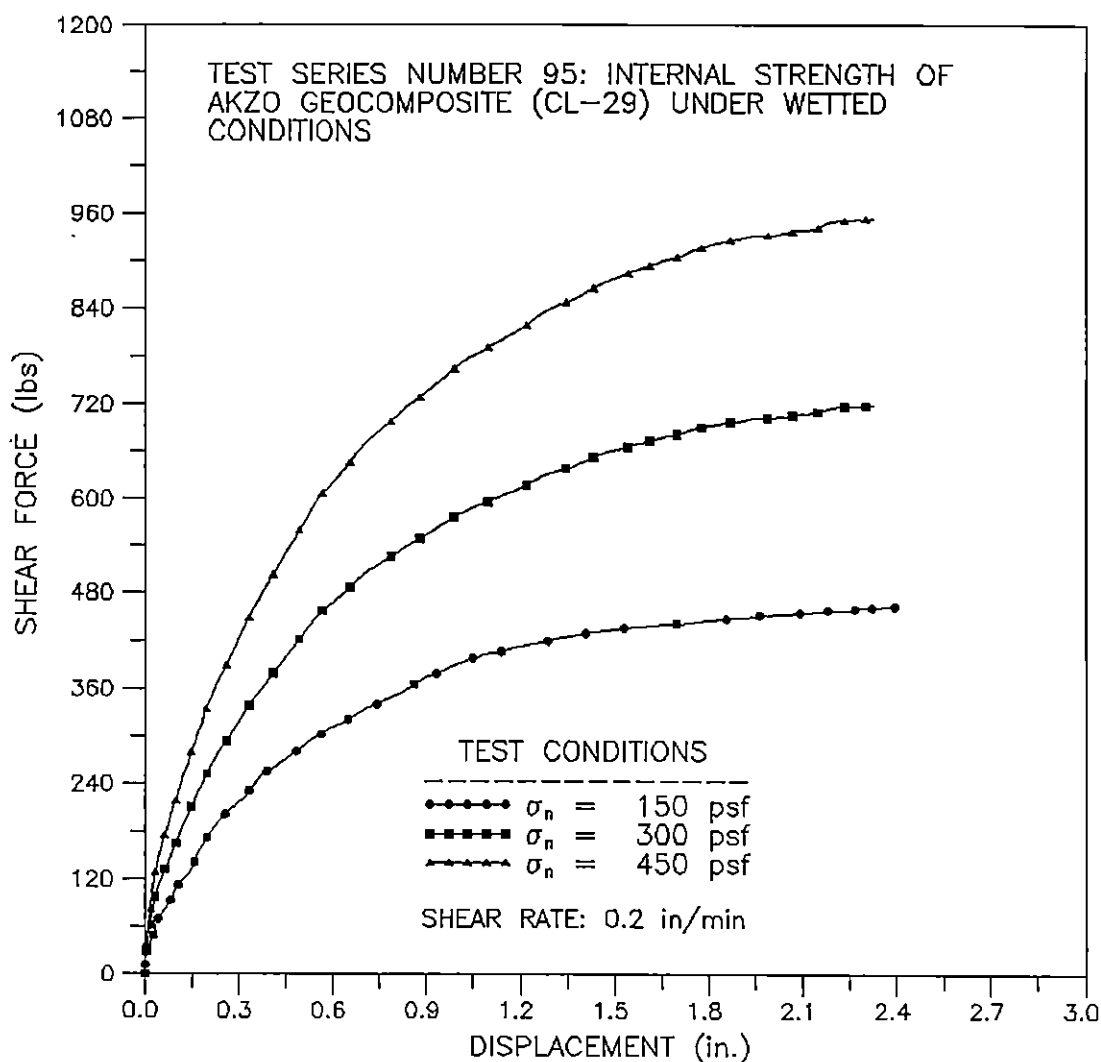


GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.	E-34
PROJECT NO.	GQ3700-03
DOCUMENT NO.	SGI96084
FILE NO.	

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL DIRECT SHEAR TESTING



NOTE: The shear box size was 12 in. by 12 in.(300 mm by 300 mm).

DATE TESTED: 20 OCTOBER 1995

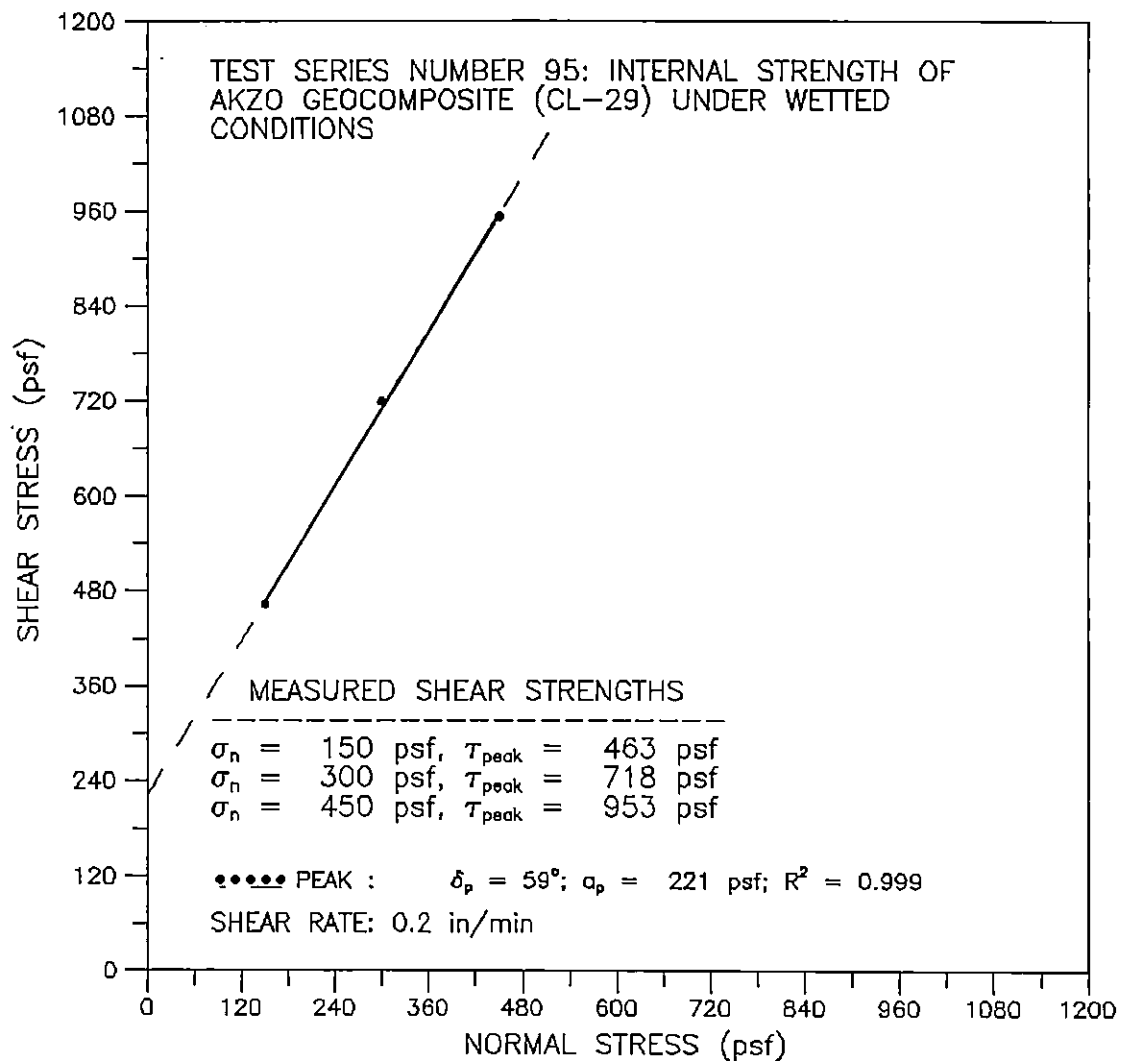


GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.	E-35
PROJECT NO.	GQ3700-03
DOCUMENT NO.	SGI96084
FILE NO.	

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL
DIRECT SHEAR TESTING



- NOTE: (1) The reported value of adhesion may not be the true adhesion of the geocomposite, and caution should be exercised in using this adhesion value for applications involving normal stresses outside the range of stresses covered by the test.
(2) Shear stresses were calculated assuming a constant shear area 1 ft².

DATE TESTED: 20 OCTOBER 1995

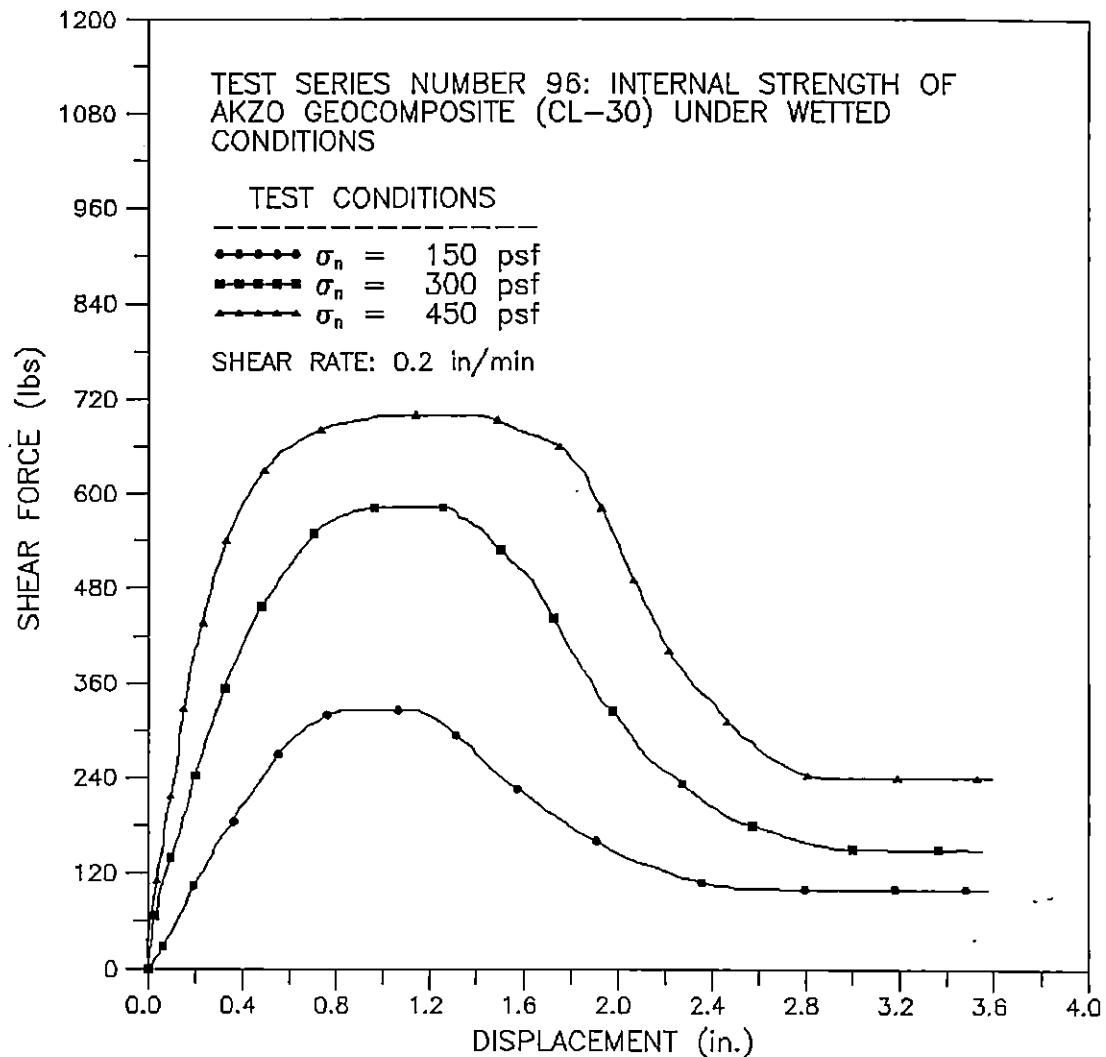


GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.	F-36
PROJECT NO.	G03700-03
DOCUMENT NO.	SGI96084
FILE NO.	

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL
DIRECT SHEAR TESTING



NOTE: The shear box size was 12 in. by 12 in.(300 mm by 300 mm).

DATE TESTED: 23 OCTOBER 1995

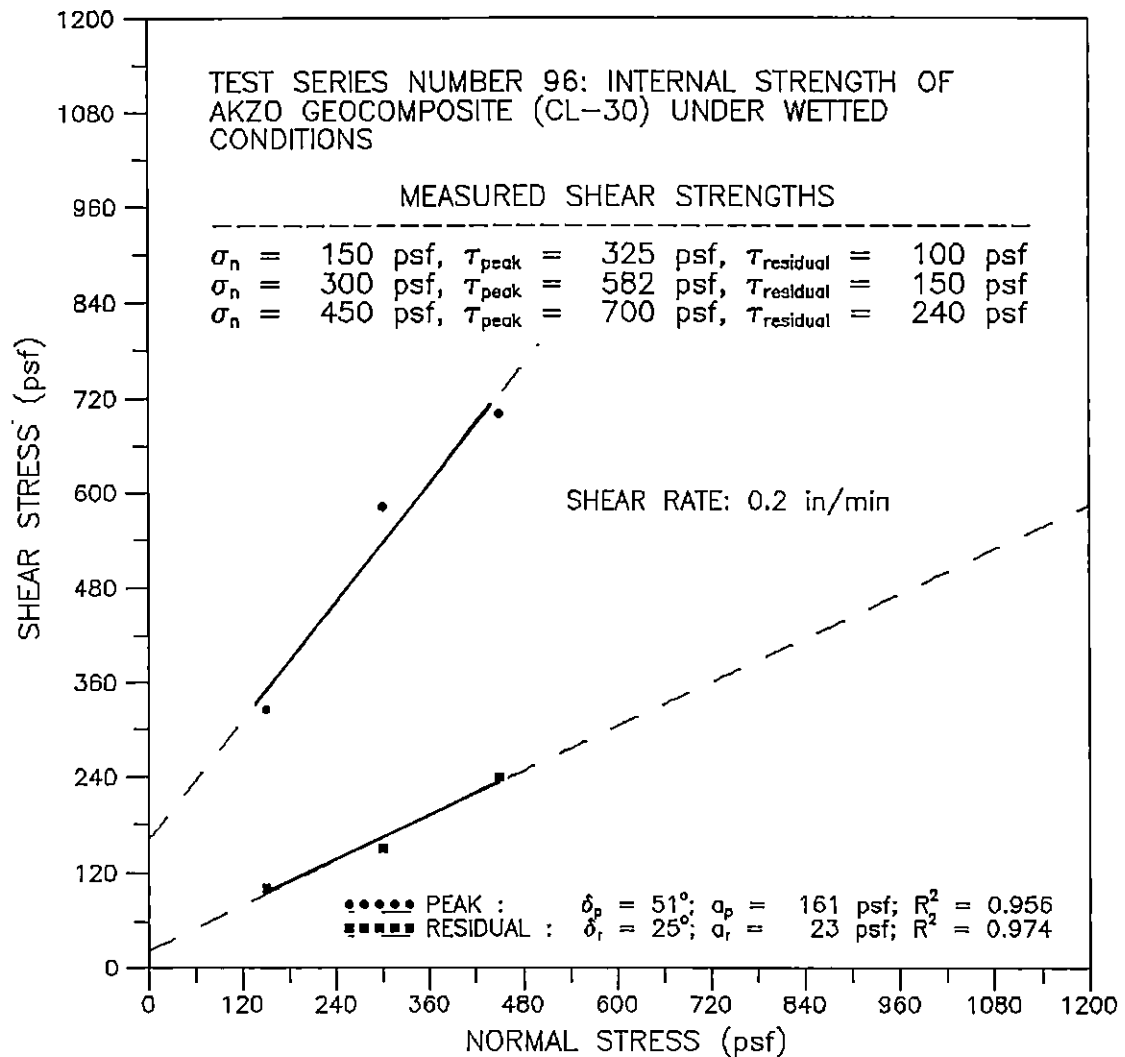


GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.	E-37
PROJECT NO.	GQ3700-03
DOCUMENT NO.	SG196084
FILE NO.	

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL DIRECT SHEAR TESTING



- NOTE: (1) The reported value of adhesion may not be the true adhesion of the geocomposite, and caution should be exercised in using this adhesion value for applications involving normal stresses outside the range of stresses covered by the test.
- (2) Shear stresses were calculated assuming a constant shear area 1 ft².

DATE TESTED: 23 OCTOBER 1995

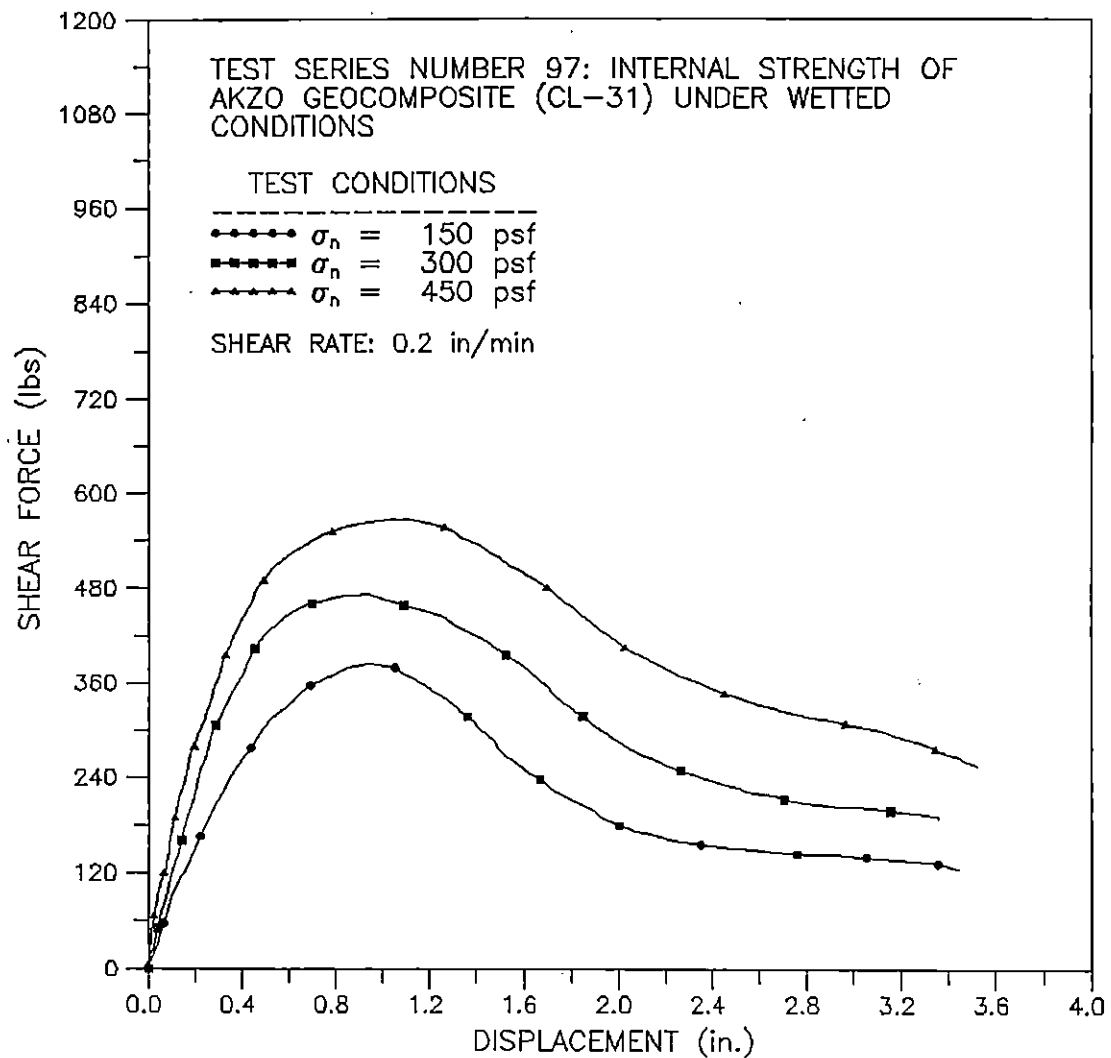


GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.	F-38
PROJECT NO.	G03700-03
DOCUMENT NO.	SGI96084
FILE NO.	

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL DIRECT SHEAR TESTING



NOTE: The shear box size was 12 in. by 12 in. (300 mm by 300 mm).

DATE TESTED: 25 OCTOBER 1995

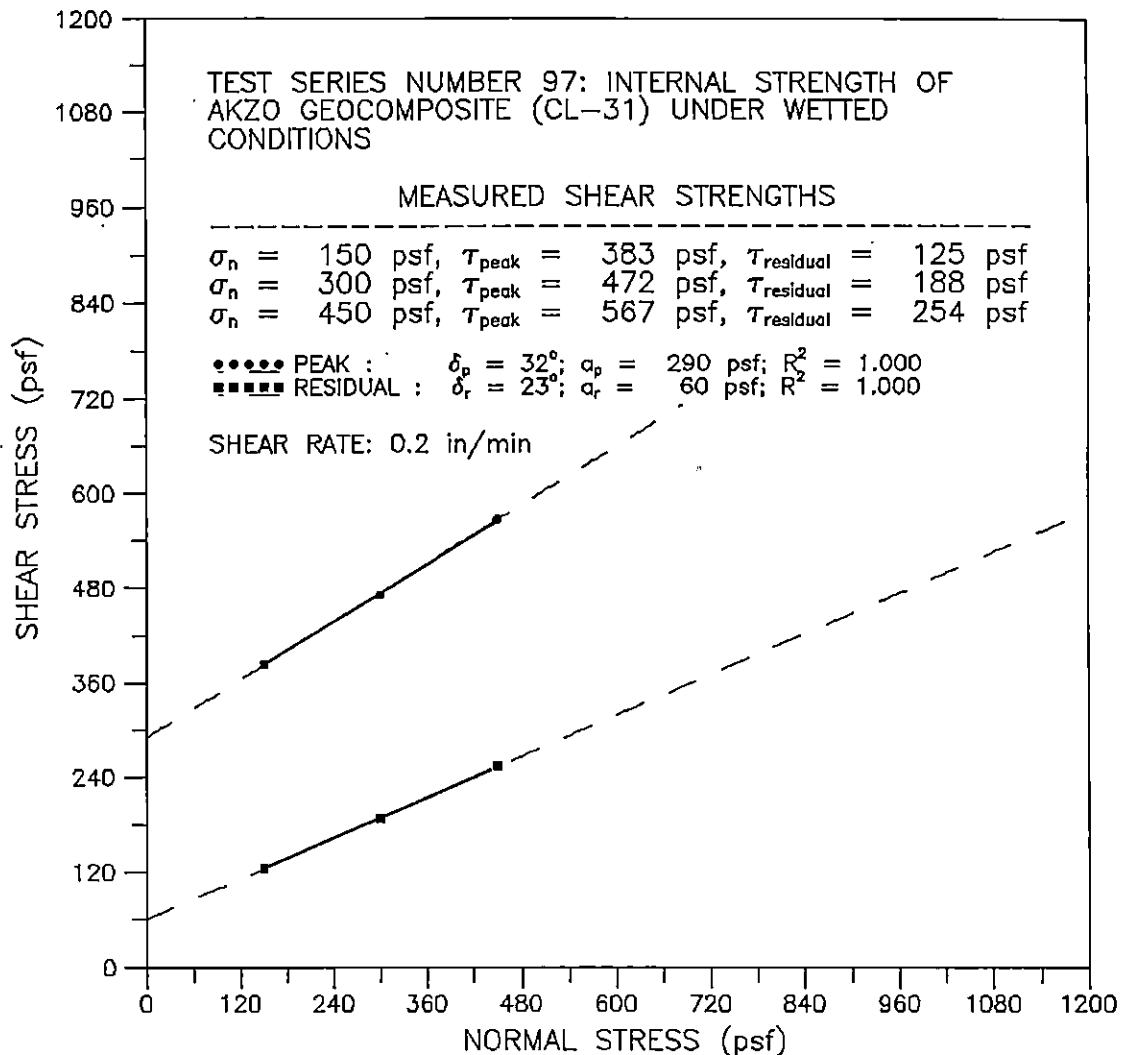


GEO SYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.	E-39
PROJECT NO.	GQ3700-03
DOCUMENT NO.	SGI96084
FILE NO.	

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL DIRECT SHEAR TESTING



- NOTE: (1) The reported value of adhesion may not be the true adhesion of the geocomposite, and caution should be exercised in using this adhesion value for applications involving normal stresses outside the range of stresses covered by the test.
- (2) Shear stresses were calculated assuming a constant shear area 1 ft².

DATE TESTED: 25 OCTOBER 1995

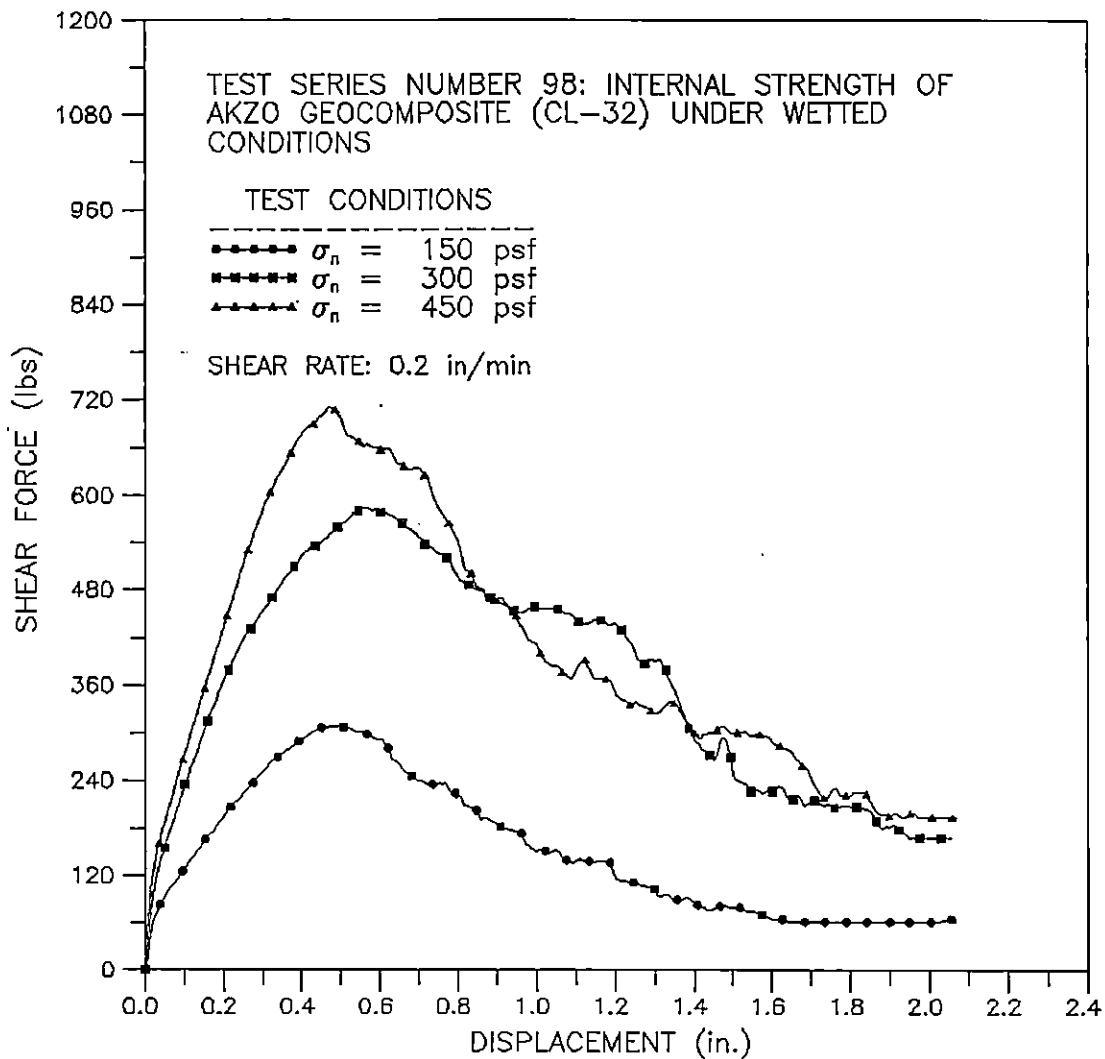


GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.	E-40
PROJECT NO.	GQ3700-03
DOCUMENT NO.	SG196084
FILE NO.	

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL DIRECT SHEAR TESTING



NOTE: The shear box size was 12 in. by 12 in.(300 mm by 300 mm).

DATE TESTED: 6 NOVEMBER 1995

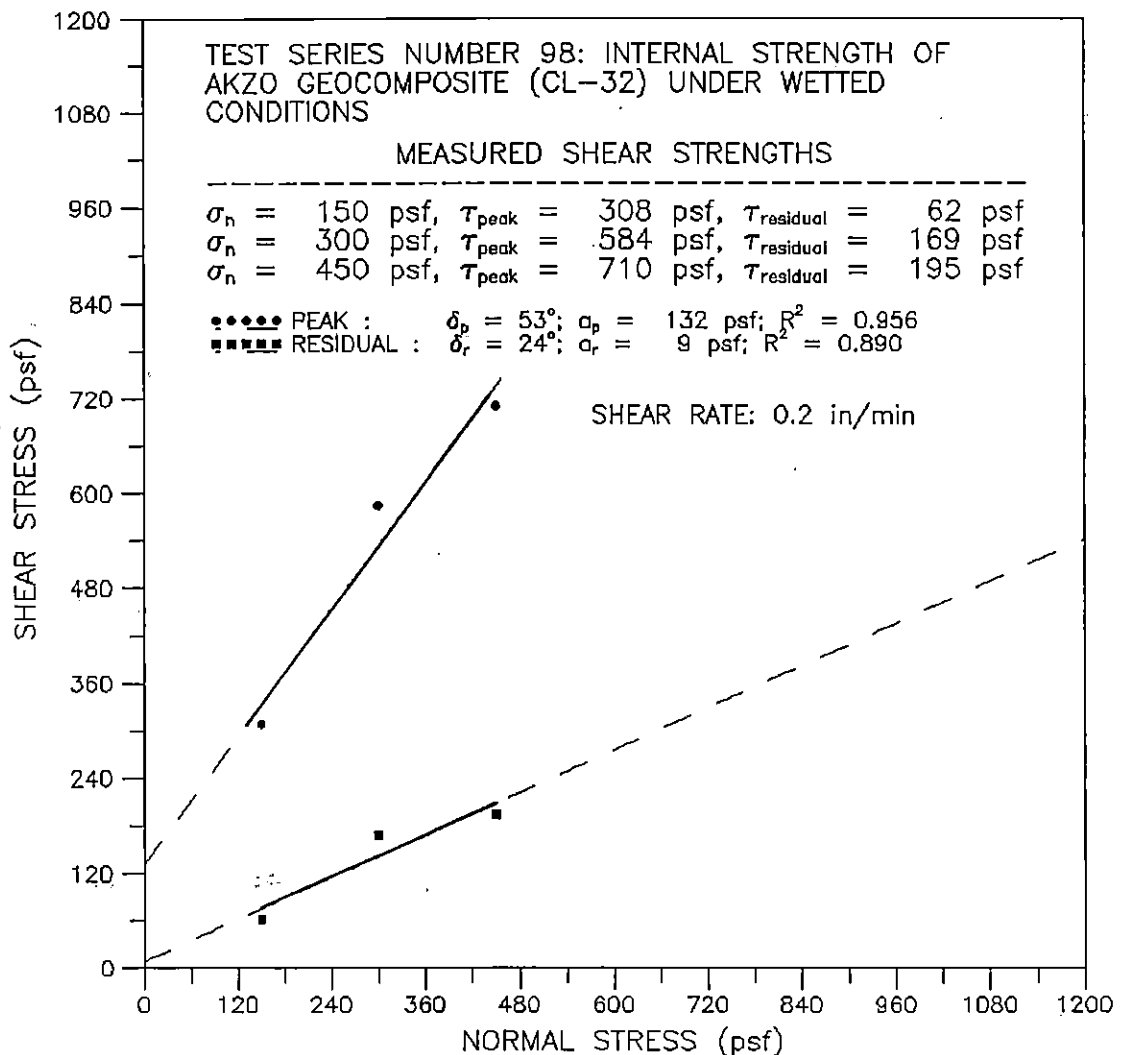


GEO SYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.	E-41
PROJECT NO.	GQ3700-03
DOCUMENT NO.	SGI96084
FILE NO.	

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL DIRECT SHEAR TESTING



- NOTE: (1) The reported value of adhesion may not be the true adhesion of the geocomposite, and caution should be exercised in using this adhesion value for applications involving normal stresses outside the range of stresses covered by the test.
- (2) Shear stresses were calculated assuming a constant shear area 1 ft².

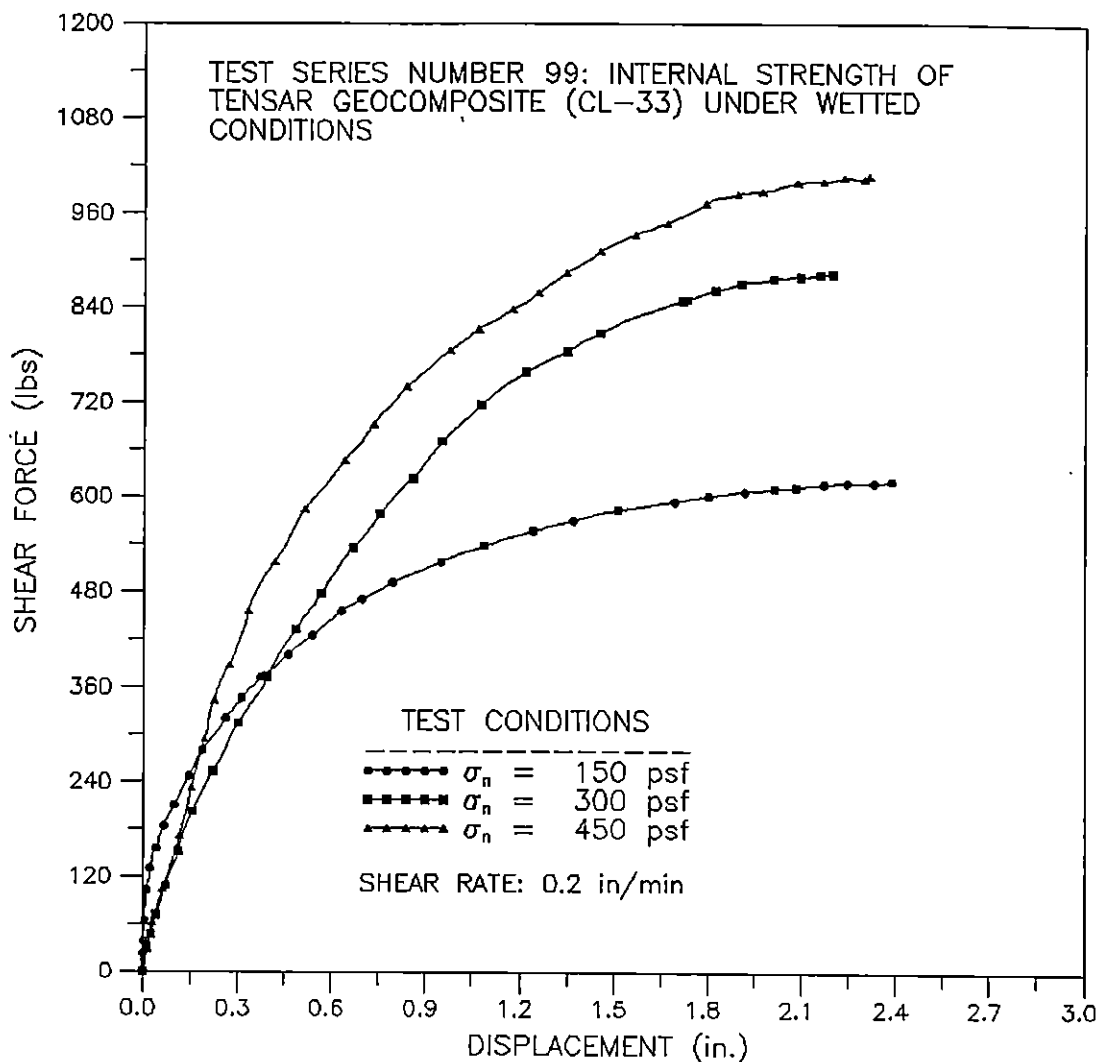
DATE TESTED: 6 NOVEMBER 1995



GEOSYNTEC CONSULTANTS
SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.	E-42
PROJECT NO.	GQ3700-03
DOCUMENT NO.	SGI96084
FILE NO.	

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL DIRECT SHEAR TESTING



NOTE: The shear box size was 12 in. by 12 in.(300 mm by 300 mm).

DATE TESTED: 9 NOVEMBER 1995

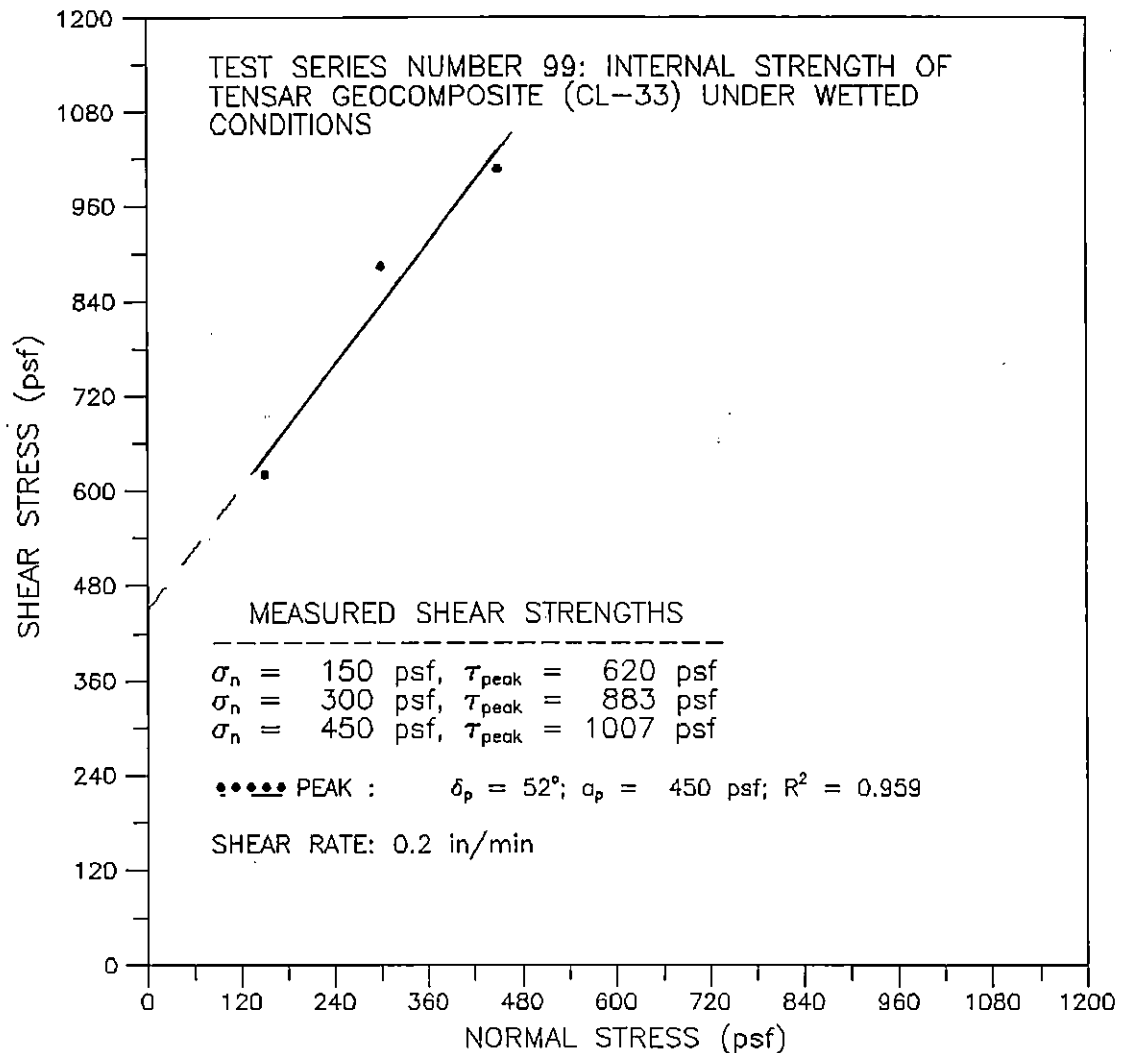


GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.	E-43
PROJECT NO.	GQ3700-03
DOCUMENT NO.	SG196084
FILE NO.	

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL DIRECT SHEAR TESTING



- NOTE: (1) The reported value of adhesion may not be the true adhesion of the geocomposite, and caution should be exercised in using this adhesion value for applications involving normal stresses outside the range of stresses covered by the test.
- (2) Shear stresses were calculated assuming a constant shear area 1 ft².

DATE TESTED: 9 NOVEMBER 1995

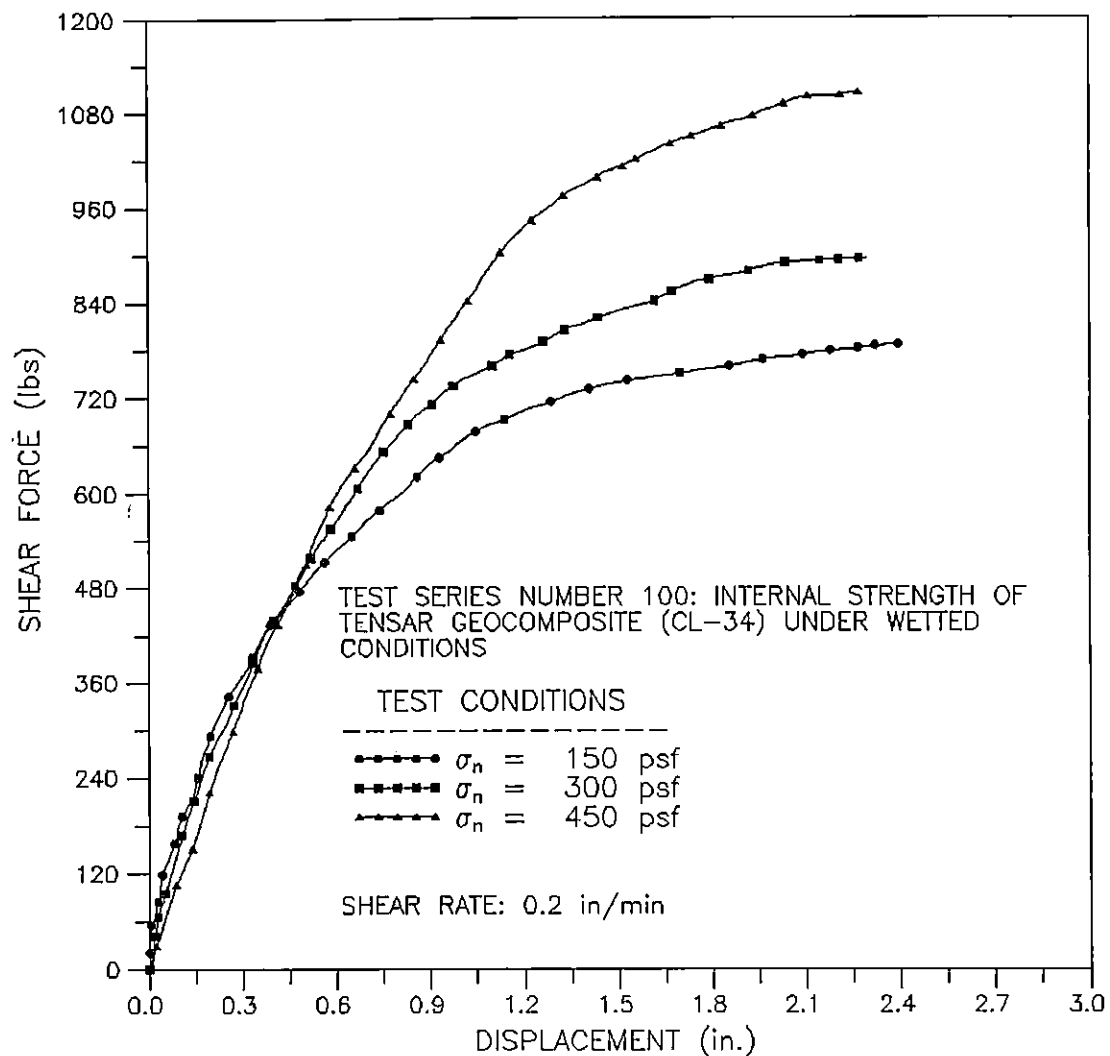


GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.	F-44
PROJECT NO.	GQ3700-03
DOCUMENT NO.	SGI96084
FILE NO.	

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL DIRECT SHEAR TESTING



NOTE: The shear box size was 12 in. by 12 in.(300 mm by 300 mm).

DATE TESTED: 14 NOVEMBER 1995.

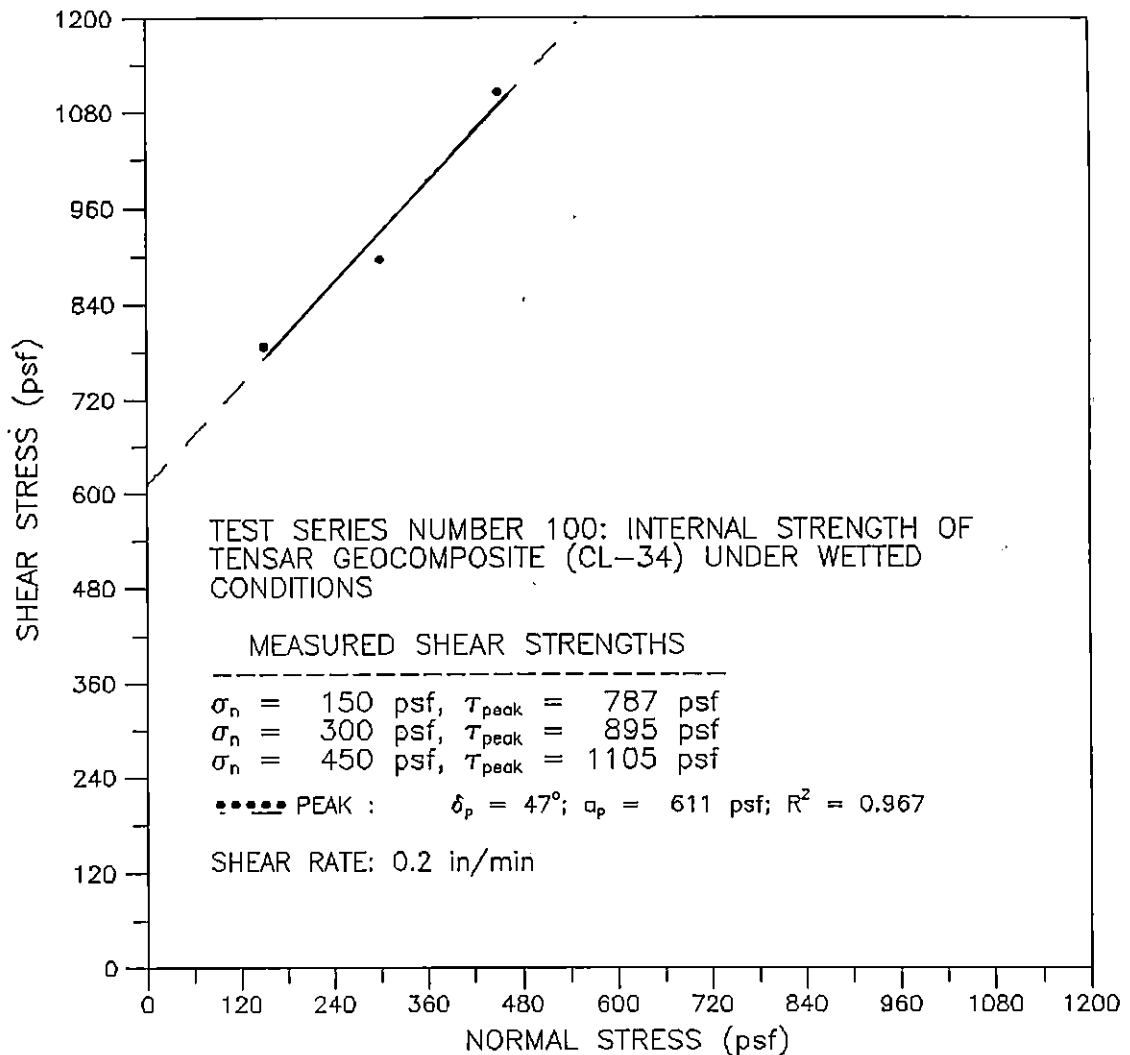


GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.	E-45
PROJECT NO.	GQ3700-03
DOCUMENT NO.	SGI96084
FILE NO.	

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL
DIRECT SHEAR TESTING



- NOTE: (1) The reported value of adhesion may not be the true adhesion of the geocomposite, and caution should be exercised in using this adhesion value for applications involving normal stresses outside the range of stresses covered by the test.
- (2) Shear stresses were calculated assuming a constant shear area 1 ft².

DATE TESTED: 14 NOVEMBER 1995

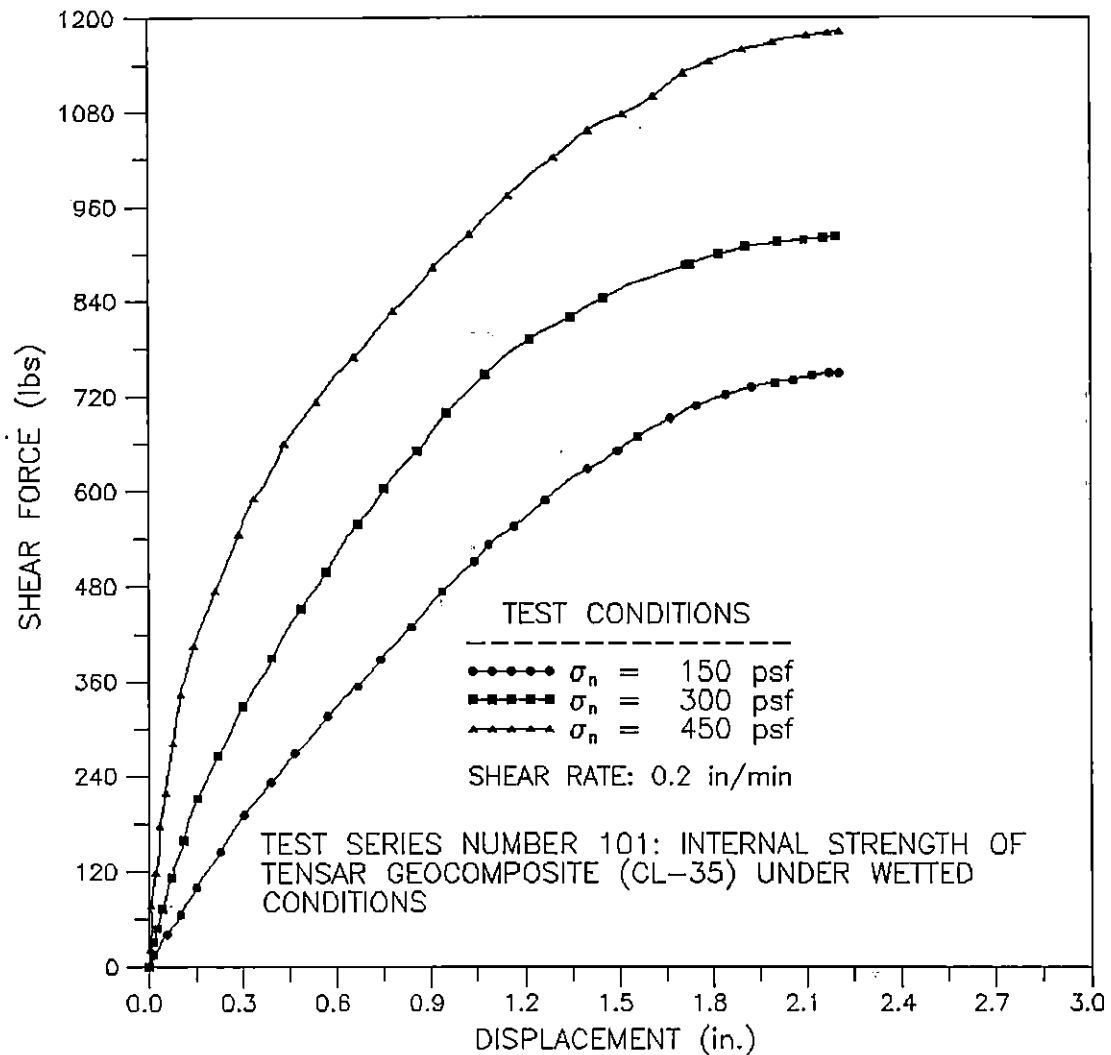


GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.	F-46
PROJECT NO.	GQ3700-03
DOCUMENT NO.	SG196084
FILE NO.	

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL DIRECT SHEAR TESTING



NOTE: The shear box size was 12 in. by 12 in.(300 mm by 300 mm).

DATE TESTED: 24 APRIL 1996

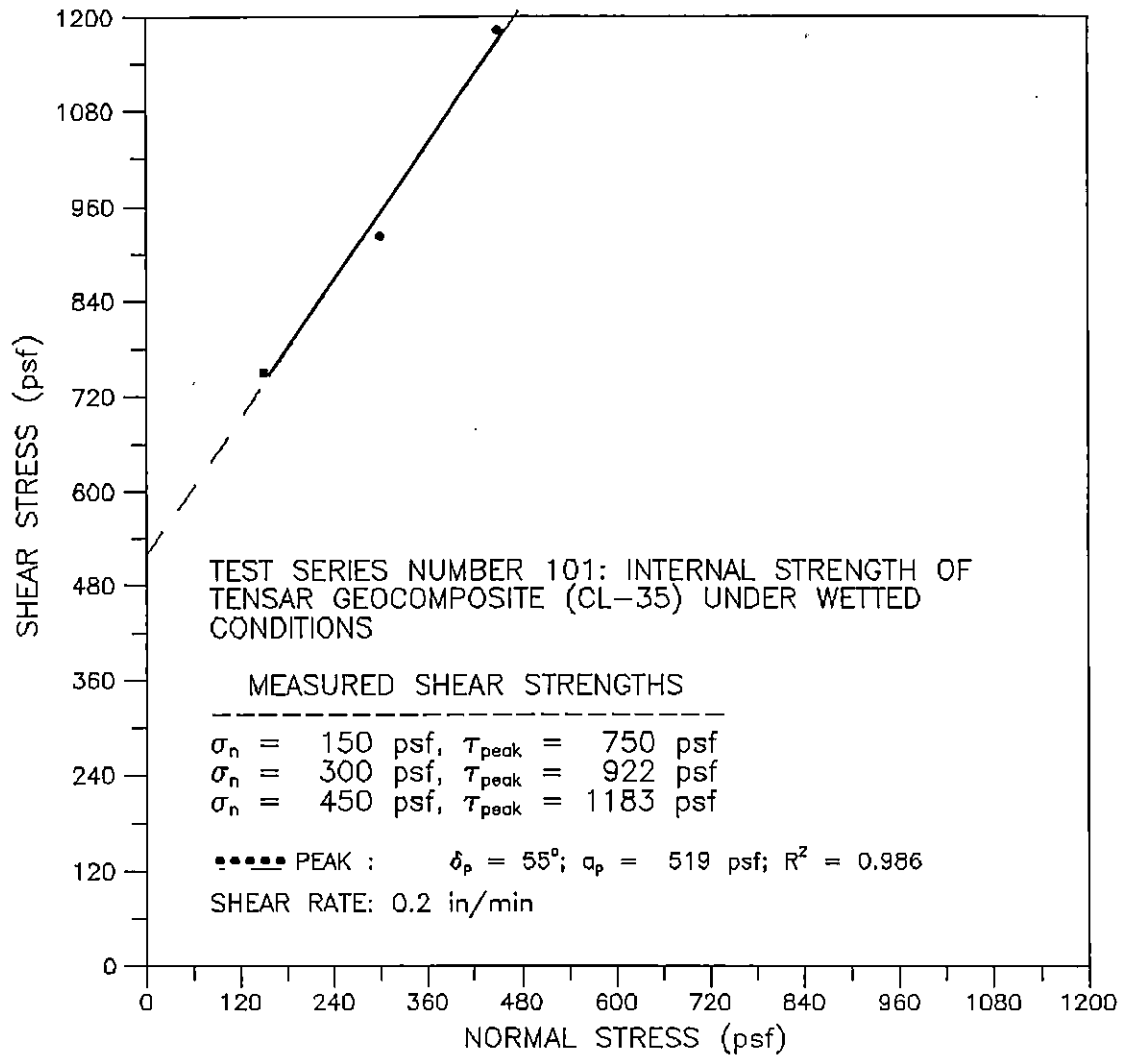


GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.	E-47
PROJECT NO.	GQ3700-03
DOCUMENT NO.	SGI96084
FILE NO.	

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL
DIRECT SHEAR TESTING



- NOTE: (1) The reported value of adhesion may not be the true adhesion of the geocomposite, and caution should be exercised in using this adhesion value for applications involving normal stresses outside the range of stresses covered by the test.
- (2) Shear stresses were calculated assuming a constant shear area 1 ft².

DATE TESTED: 24 APRIL 1996

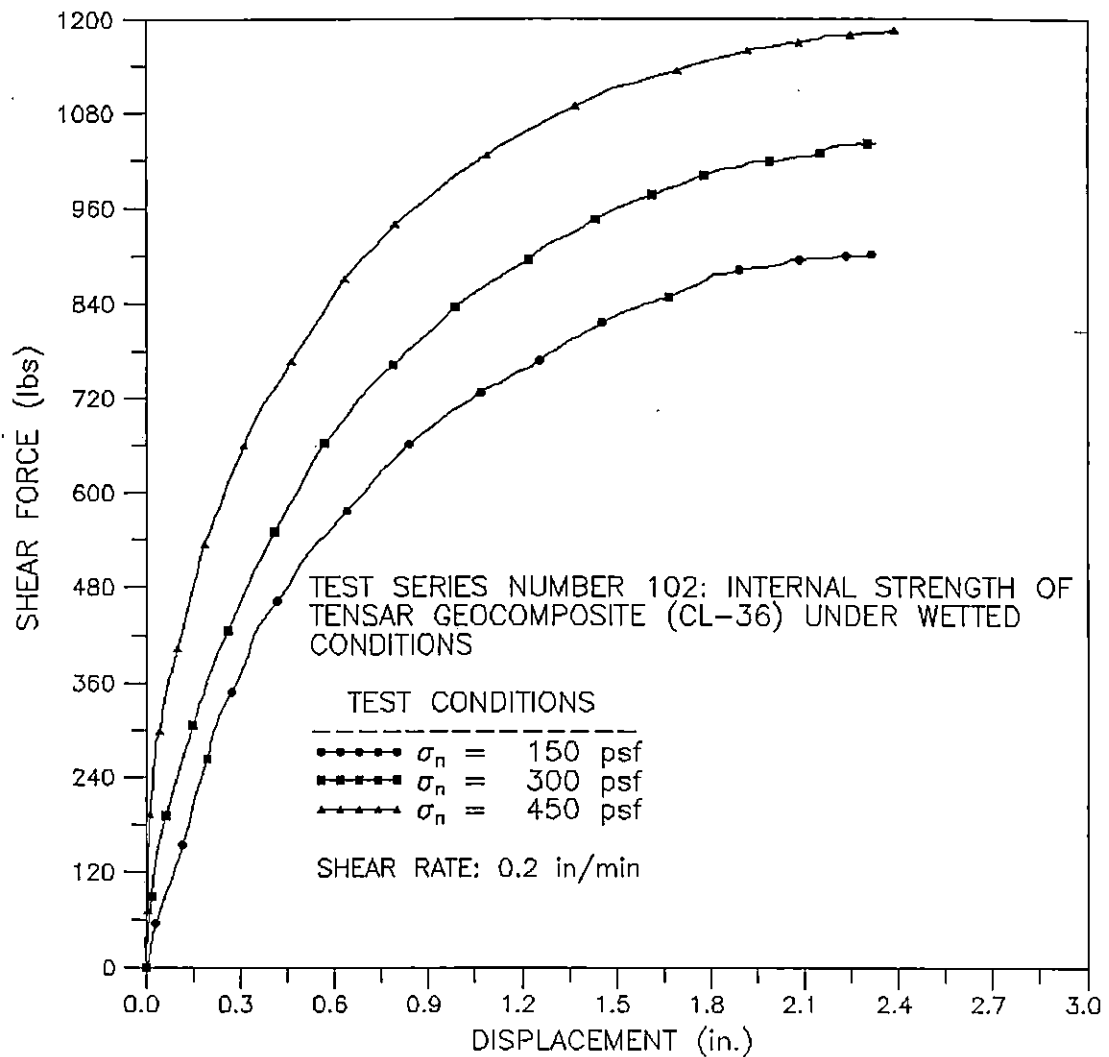


GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.	E-48
PROJECT NO.	GQ3700-03
DOCUMENT NO.	SGI96084
FILE NO.	

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL DIRECT SHEAR TESTING



NOTE: The shear box size was 12 in. by 12 in.(300 mm by 300 mm).

DATE TESTED: 6 MAY 1996

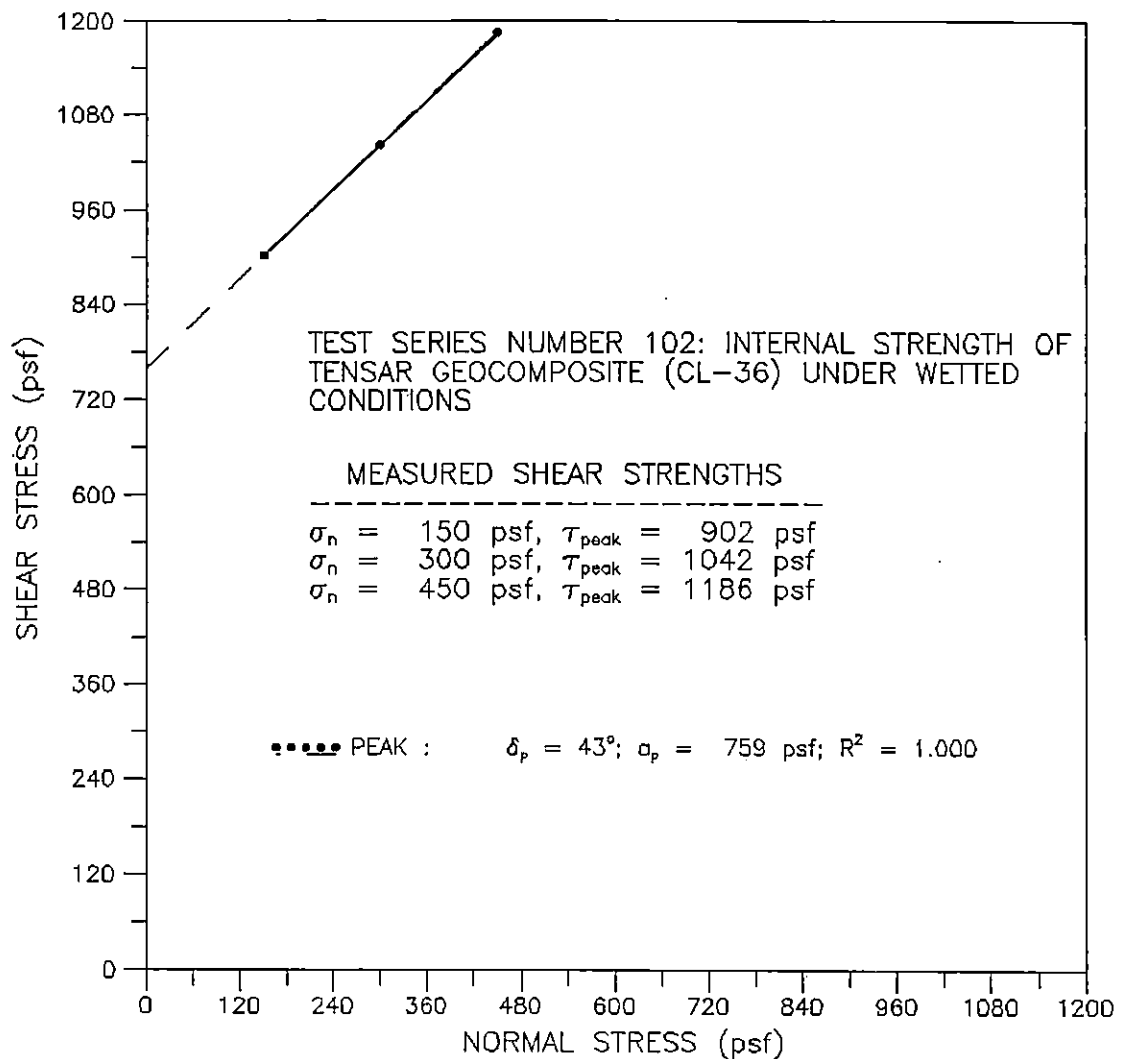


GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.	E-49
PROJECT NO.	GQ3700-03
DOCUMENT NO.	SGI96084
FILE NO.	

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL DIRECT SHEAR TESTING



- NOTE: (1) The reported value of adhesion may not be the true adhesion of the geocomposite, and caution should be exercised in using this adhesion value for applications involving normal stresses outside the range of stresses covered by the test.
- (2) Shear stresses were calculated assuming a constant shear area 1 ft².

DATE TESTED: 6 MAY 1996

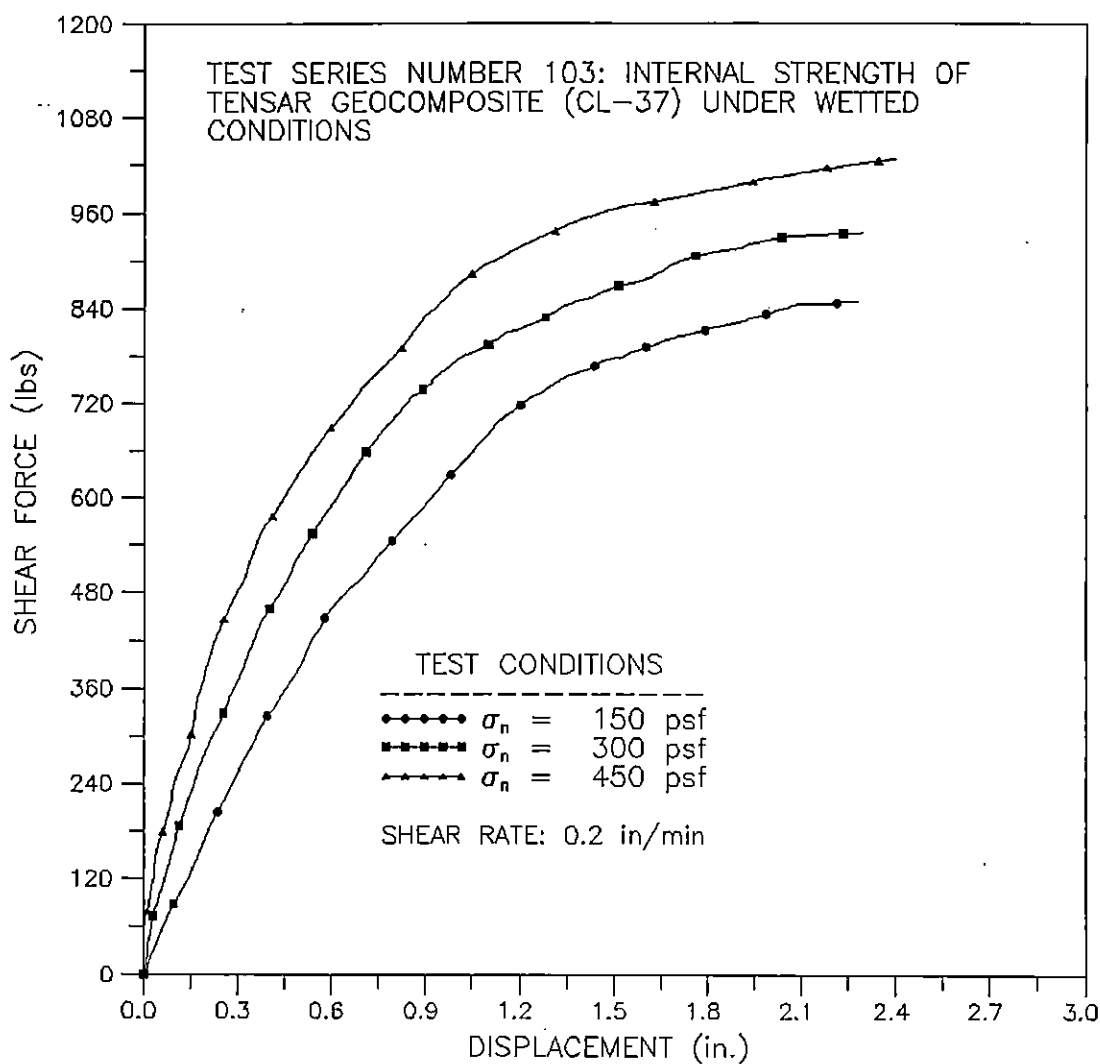


GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.	E-50
PROJECT NO.	GQ3700-03
DOCUMENT NO.	SGI96084
FILE NO.	

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL DIRECT SHEAR TESTING



NOTE: The shear box size was 12 in. by 12 in.(300 mm by 300 mm).

DATE TESTED: 7 MAY 1996

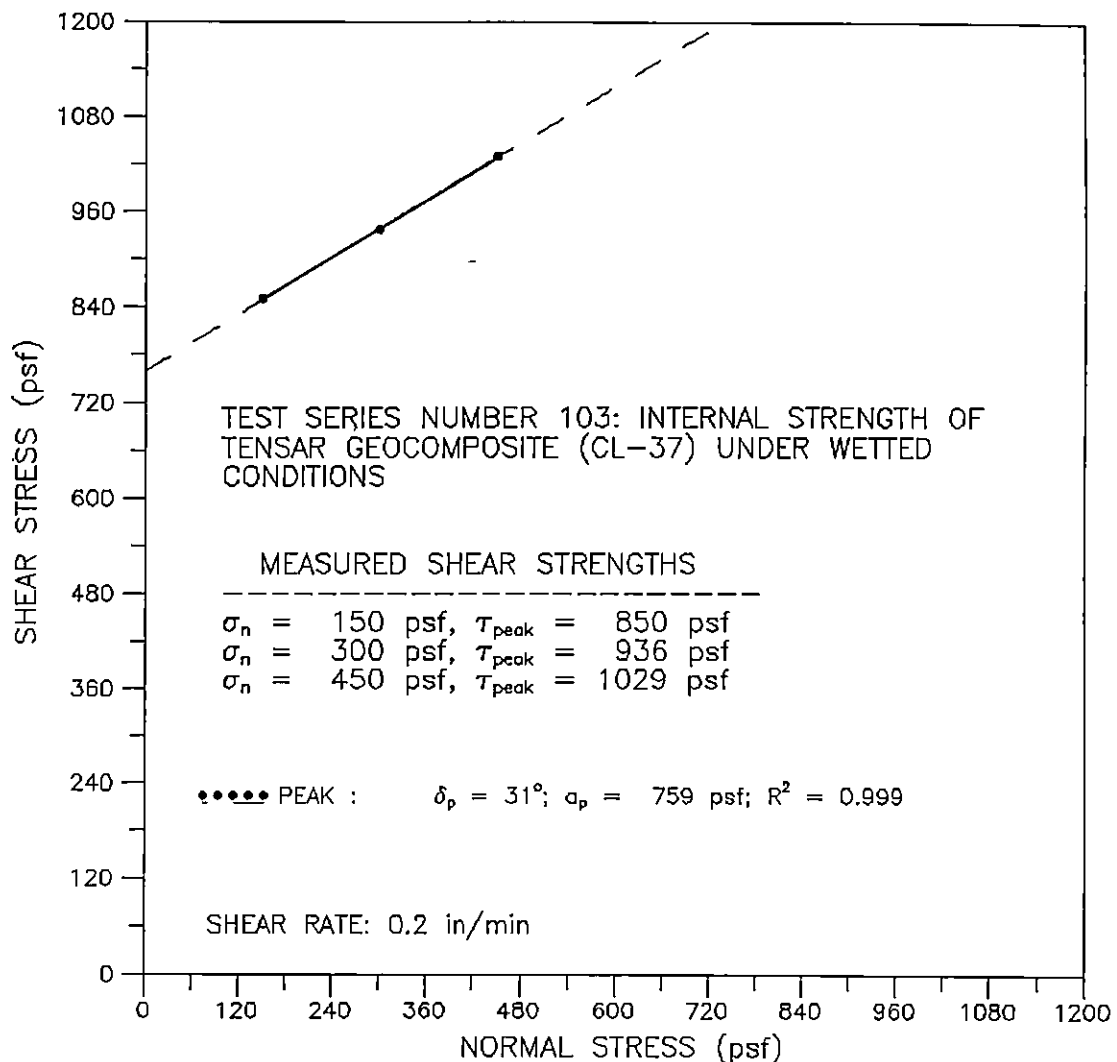


GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.	E-51
PROJECT NO.	GQ3700-03
DOCUMENT NO.	SGI96084
FILE NO.	

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL DIRECT SHEAR TESTING



- NOTE: (1) The reported value of adhesion may not be the true adhesion of the geocomposite, and caution should be exercised in using this adhesion value for applications involving normal stresses outside the range of stresses covered by the test.
- (2) Shear stresses were calculated assuming a constant shear area, 1 ft².

DATE TESTED: 7 MAY 1996



GEOSYNTEC CONSULTANTS

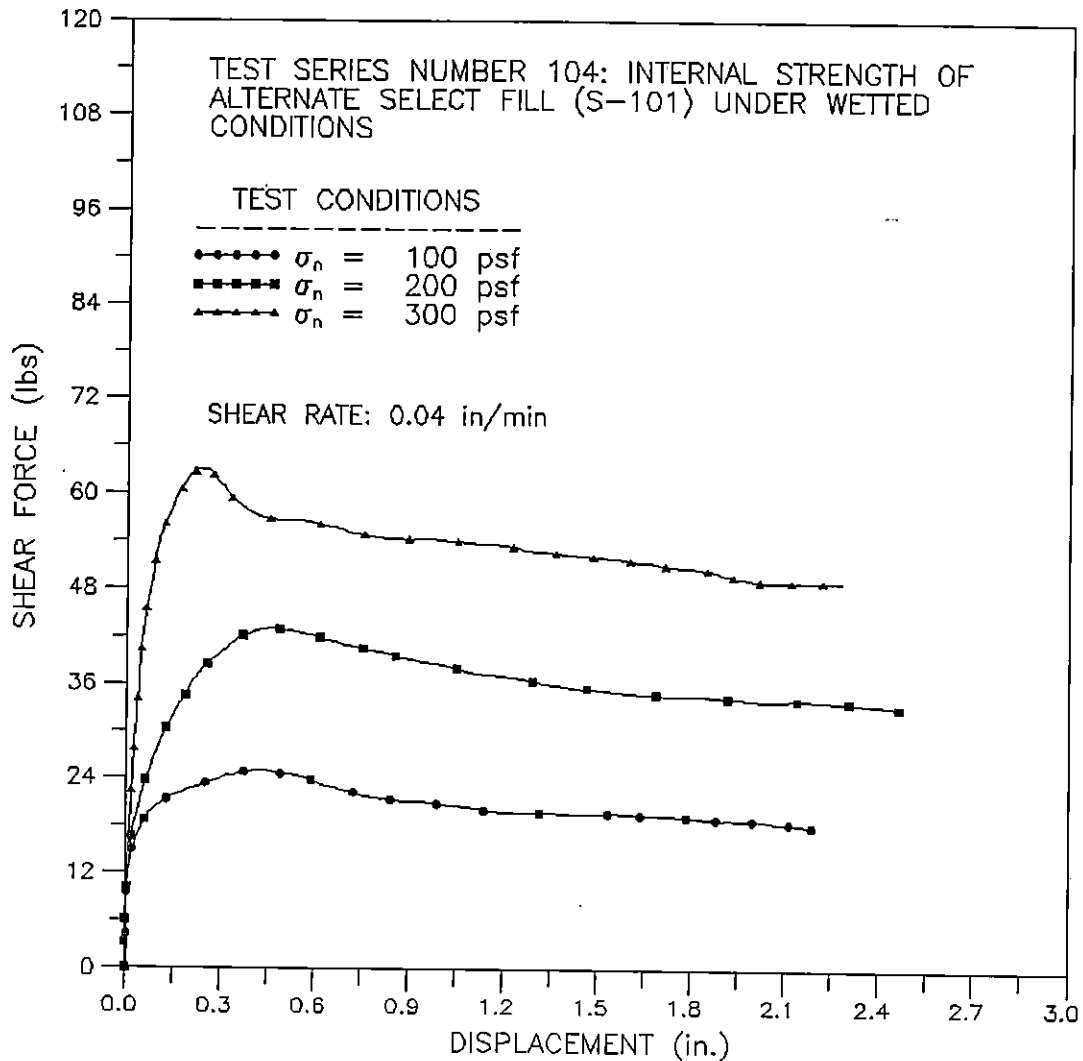
SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.	E-52
PROJECT NO.	GQ3700-03
DOCUMENT NO.	SGI96084
FILE NO.	

APPENDIX F

TEST RESULTS ALTERNATE SELECT FILL DIRECT SHEAR TESTS

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL DIRECT SHEAR TESTING



NOTE: The shear box size was 6 in. by 6 in. (150 mm by 150 mm), and the contact area remained constant throughout the entire test.

DATE TESTED: 10 NOVEMBER 1995

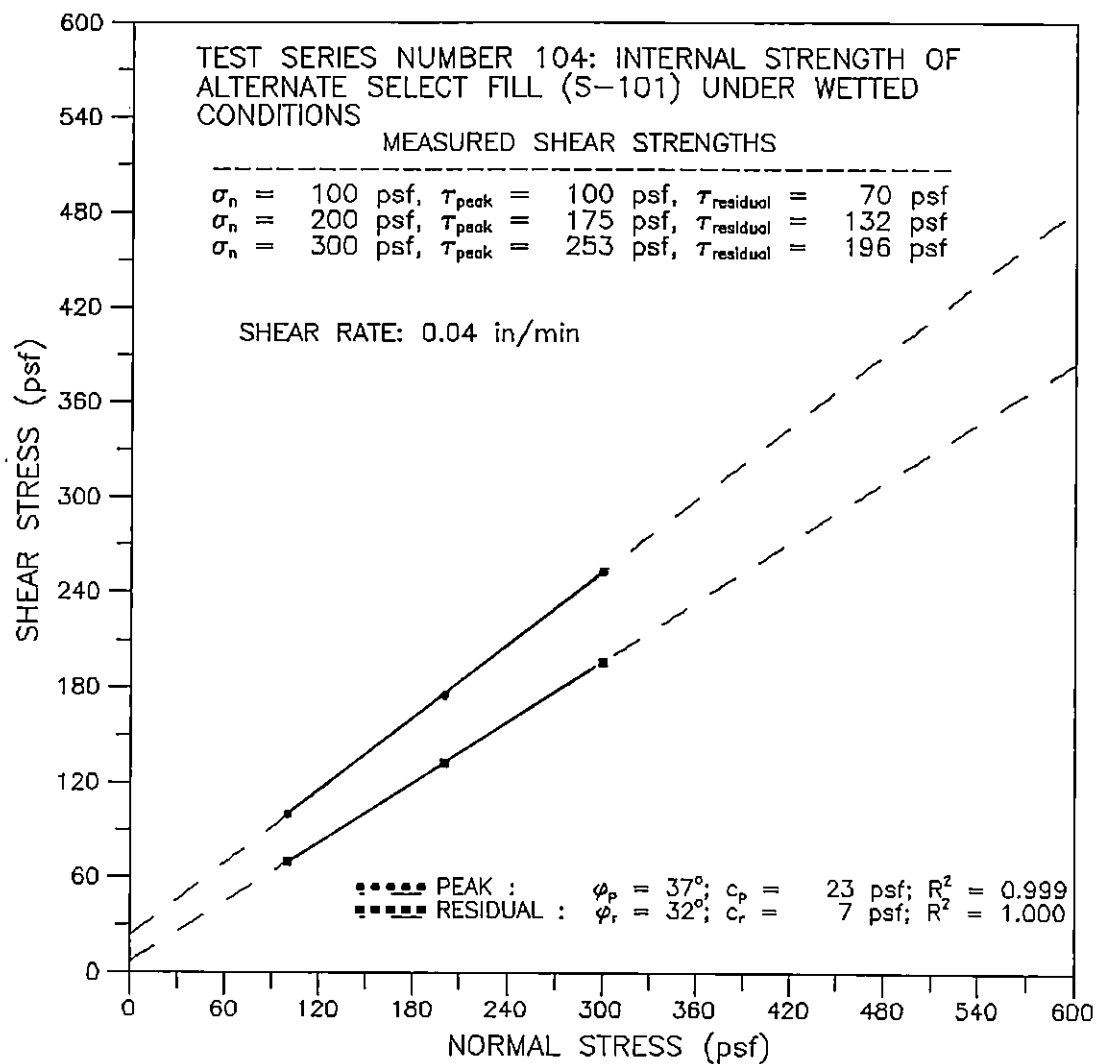


GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.	F-1
PROJECT NO.	GQ3700-03
DOCUMENT NO.	SGI96084
FILE NO.	

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL DIRECT SHEAR TESTING



NOTE: The reported value of cohesion may not be the true cohesion of the soil specimen, and caution should be exercised in using this cohesion value for applications involving normal stresses outside the range of stresses covered by the test.

DATE TESTED: 10 NOVEMBER 1995

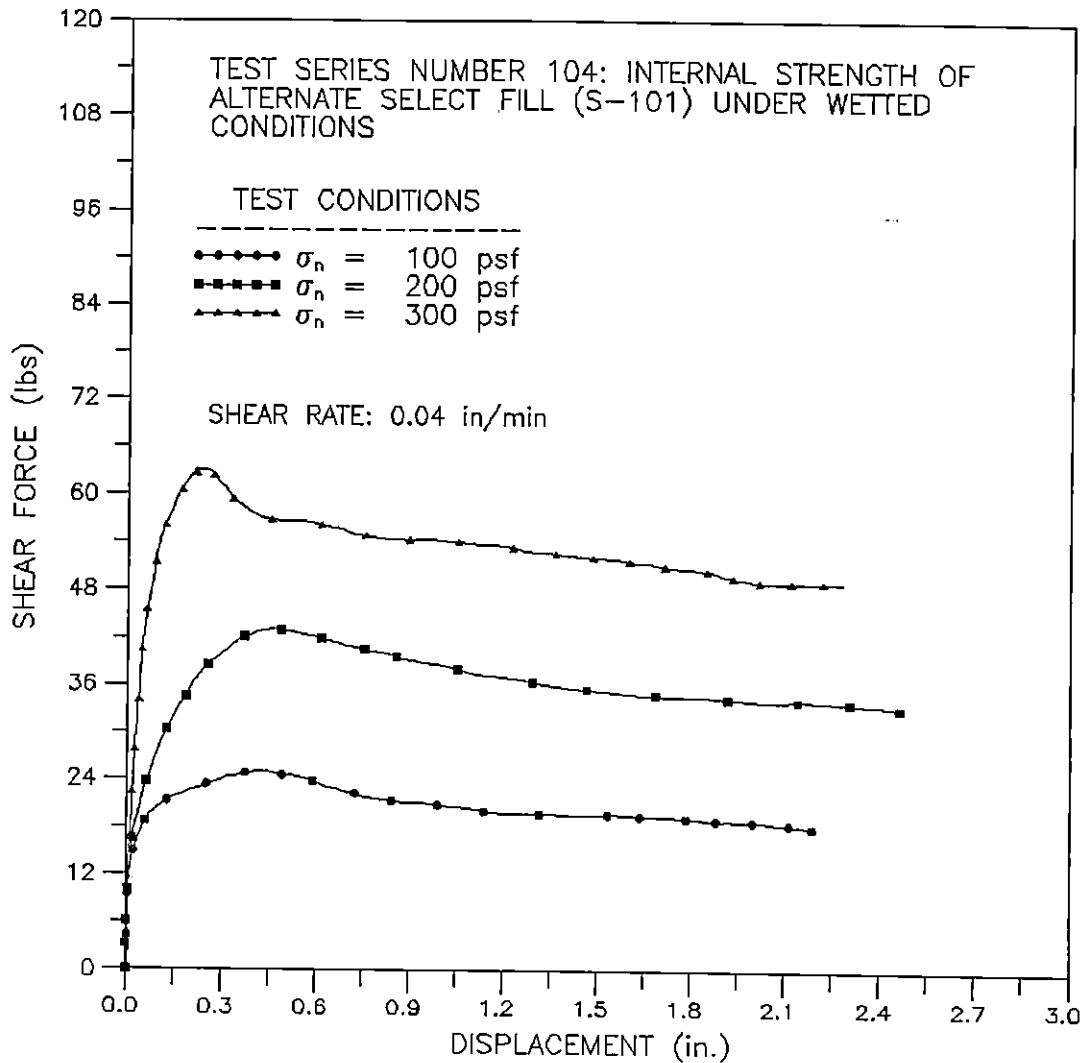


GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.	F-2
PROJECT NO.	GQ3700-03
DOCUMENT NO.	SGI96084
FILE NO.	

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL DIRECT SHEAR TESTING



NOTE: The shear box size was 6 in. by 6 in. (150 mm by 150 mm), and the contact area remained constant throughout the entire test.

DATE TESTED: 10 NOVEMBER 1995

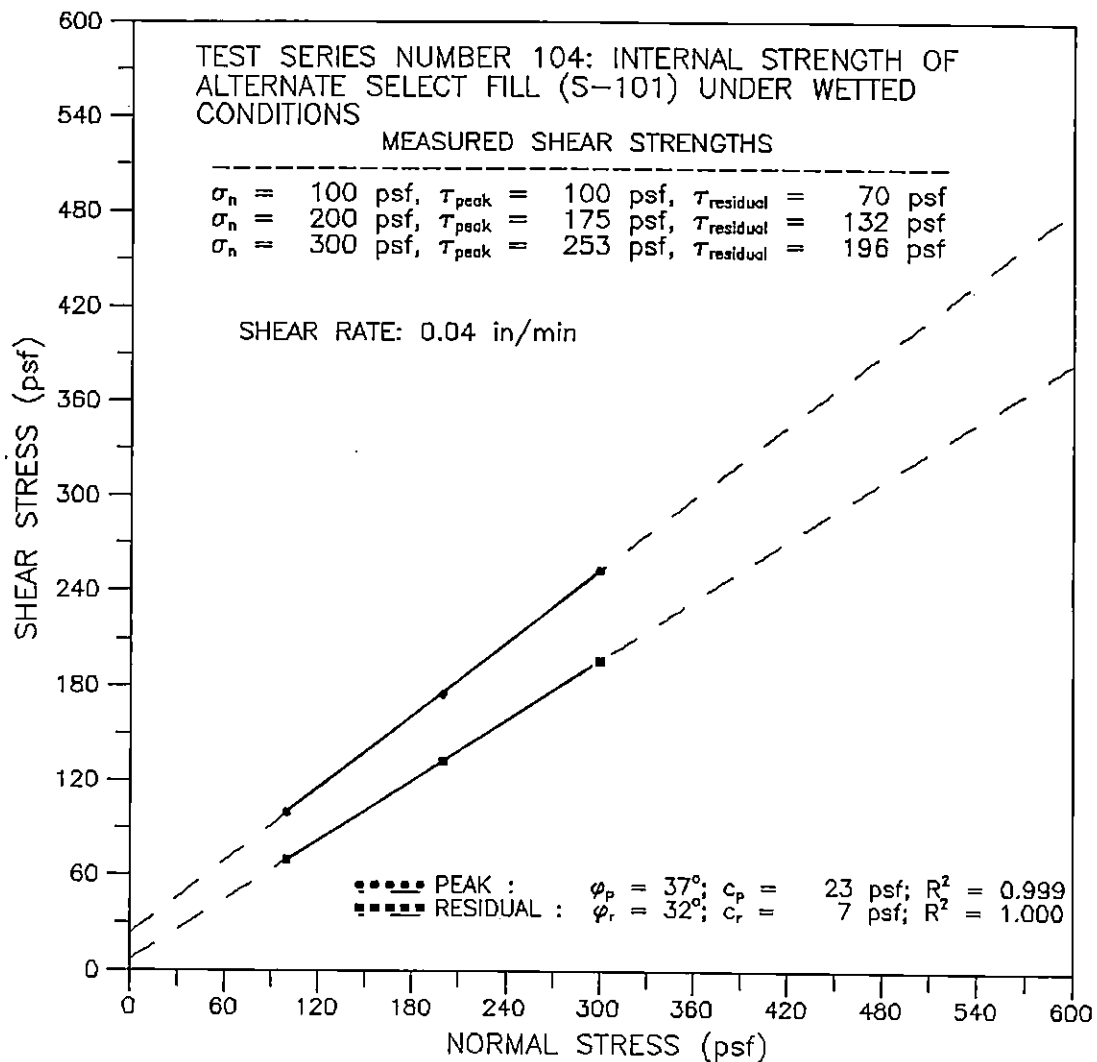


GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO.	F-1
PROJECT NO.	GQ3700-03
DOCUMENT NO.	SGI96084
FILE NO.	

TOWN OF HUNTINGTON / EAST NORTHPORT LANDFILL DIRECT SHEAR TESTING



NOTE: The reported value of cohesion may not be the true cohesion of the soil specimen, and caution should be exercised in using this cohesion value for applications involving normal stresses outside the range of stresses covered by the test.

DATE TESTED: 10 NOVEMBER 1995



GEOSYNTEC CONSULTANTS

SOIL-GEOSYNTHETIC INTERACTION TESTING LABORATORY

FIGURE NO. F-2

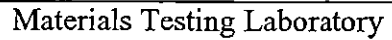
PROJECT NO. GQ3700-03

DOCUMENT NO. SGI96084

FILE NO.

APPENDIX K

GEOCOMPOSITE TEST RESULTS



CLIENT: *Cashin and Associates*
PROJECT: *Huntington / East Northport Landfill Closure*
CONTACT: *Mr. David Williams*
GEOSYNTEC JOB NO.: *GQ3700*

MATERIAL: Polypropylene
GEOSYNTEC ID: 743-FLQC 1251-I
DATE TESTED: 5/14/96

SUMMARY RESULTS

[illegible]

AND MAY NOT CORRELATE WITH GEOTEXTILE PERMEABILITY VALUES UNDER FIELD CONDITIONS.

© 1996 GEOSYNTEC CONSULTANTS



GEOSYNTec CONSULTANTS

Materials Testing Laboratory

GEOCOMPOSITE TEST RESULTS

CLIENT: Cashin and Associates
PROJECT: Huntington / East Northport Landfill Closure
CONTACT: Mr. David Williams
GEOSYNTec JOB NO.: GQ3700

MATERIAL: Polypropylene / Polyethylene
CLIENT ID: Sample P-14, Roll 50508906
DATE TESTED: 12/11/95

INDIVIDUAL SPECIMENS										SUMMARY RESULTS				
1	2	3	4	5	6	7	8	9	10	PROPERTY (STANDARD)	UNIT	MEAN	STD	SPEC. PASS/FAIL
										PEEL STRENGTH (ASTM F904)	g/in.			
										TOP				
1589	2043	1135								RD		1589	454.0	
1362	1589	1816								XD		1589	227.0	
										BOTTOM				
2951	3859	2043								RD		2951	908.0	
2497	2724	2270								XD		2497	227.0	

COMMENTS:

RD = ROLL DIRECTION
XD = CROSS-ROLL DIRECTION

© 1995 GEOSYNTec CONSULTANTS

GEOCOMPOSITE TEST RESULTS

CLIENT: Cashin and Associates
PROJECT: Huntington / East Northport Landfill Closure
CONTACT: Mr. David Williams
GEOSYNTEC JOB NO.: GQ3700

MATERIAL: Polypropylene / Polyethylene
CLIENT ID: Sample P-15, Roll 50509916
DATE TESTED: 12/11/95

INDIVIDUAL SPECIMENS

[illegible]

SUMMARY RESULTS

[illegible]

COMMENTS:

RD = ROLL DIRECTION
XD = CROSS-ROLL DIRECTION

© 1995 GEOSYNTEC CONSULTANTS

GEOCOMPOSITE TEST RESULTS

CLIENT: *Cashin and Associates*
PROJECT: *Huntington / East Northport Landfill Closure*
CONTACT: *Mr. David Williams*
GEOSYNTEC JOB NO.: *GQ3700*

MATERIAL: Polypropylene / Polyethylene
CLIENT ID: Sample P-16, Roll 50503901
DATE TESTED: 12/11/95

INDIVIDUAL SPECIMENS

[illegible]

SUMMARY RESULTS

[illegible]

COMMENTS:

RD = ROLL DIRECTION
XD = CROSS-ROLL DIRECTION

© 1995 GEOSYNTEC CONSULTANTS

GEOCOMPOSITE TEST RESULTS

CLIENT: *Cashin and Associates*

PROJECT: *Huntington / East Northport Landfill Closure*

CONTACT: Mr. David Williams

GEOSYNTEC JOB NO.: GQ3700

MATERIAL:

Polypropylene / Polyethylene

CLIENT ID:

Sample P-17, Roll 50507908

DATE TESTED:

12/11/95

INDIVIDUAL SPECIMENS

[illegible]

SUMMARY RESULTS

[illegible]

COMMENTS:

RD = ROLL DIRECTION

XD = CROSS-ROLL DIRECTION

© 1995 GEOSYNTEC CONSULTANTS



GEOSYNTEC CONSULTANTS

Materials Testing Laboratory

GEOCOMPOSITE TEST RESULTS

CLIENT: Cashin and Associates
PROJECT: Huntington / East Northport Landfill Closure
CONTACT: Mr. David Williams
GEOSYNTEC JOB NO.: GQ3700

MATERIAL: Polypropylene / Polyethylene
CLIENT ID: Sample P-18, Roll 50512903
DATE TESTED: 12/11/95

INDIVIDUAL SPECIMENS

1	2	3	4	5	6	7	8	9	10
1135	908	2043							
2043	2497	1589							
2497	1816	3178							
2724	1816	2270							

SUMMARY RESULTS

PROPERTY (STANDARD)	UNIT	MEAN	STD	SPEC.	PASS/FAIL
PEEL STRENGTH (ASTM F904)	g/in.				
TOP					
RD		1362	600.6		
XD		2043	454.0		
BOTTOM					
RD		2497	681.0		
XD		2270	454.0		

COMMENTS:

RD = ROLL DIRECTION
XD = CROSS-ROLL DIRECTION

© 1995 GEOSYNTEC CONSULTANTS

GEOCOMPOSITE TEST RESULTS

CLIENT: *Cashin and Associates*

PROJECT: *Huntington / East Northport Landfill Closure*

CONTACT: Mr. David Williams

GEOSYNTEC JOB NO.: GQ3700

MATERIAL:

Polypropylene / Polyethylene

CLIENT ID:

Sample P-19, Roll 50715905

DATE TESTED:

12/11/95

INDIVIDUAL SPECIMENS

[illegible]

SUMMARY RESULTS

[illegible]

COMMENTS:

RD = ROLL DIRECTION

XD = CROSS-ROLL DIRECTION

© 1995 GEOSYNTEC CONSULTANTS



CLIENT: Cashin and Associates
PROJECT: Huntington / East Northport Landfill Closure
CONTACT: Mr. David Williams
JOB NO.: GQ3700

MATERIAL: Polypropylene / Polyethylene
CLIENT ID: Sample P-20, Roll 50624915
DATE TESTED: 12/11/95

SUMMARY RESULTS

[illegible]

RD = ROLL DIRECTION
XD = CROSS-ROLL DIRECTION

© 1995 GEOSYNTEC CONSULTANTS

GEOCOMPOSITE TEST RESULTS

CLIENT: *Cashin and Associates*

PROJECT: *Huntington / East Northport Landfill Closure*

CONTACT: *Mr. David Williams*

GEOSYNTEC JOB NO.: GQ3700

MATERIAL:

Polypropylene / Polyethylene

CLIENT ID:

Sample P-21, Roll 50726922

DATE TESTED:

12/11/95

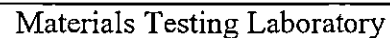
[illegible]

COMMENTS:

RD = ROLL DIRECTION

XD = CROSS-ROLL DIRECTION

© 1995 GEOSYNTEC CONSULTANTS



CLIENT: Cashin and Associates
PROJECT: Huntington / East Northport Landfill Closure
CONTACT: Mr. David Williams
JOB NO.: GQ3700

MATERIAL: Polypropylene / Polyethylene
CLIENT ID: Sample P-22, Roll 50911903
DATE TESTED: 12/11/95

INDIVIDUAL SPECIMENS

[illegible]

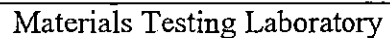
SUMMARY RESULTS

[illegible]

COMMENTS:

RD = ROLL DIRECTION
XD = CROSS-ROLL DIRECTION

© 1995 GEOSYNTEC CONSULTANTS



MATERIAL: Polypropylene / Polyethylene
CLIENT ID: Sample P-23, Roll 50911908
DATE TESTED: 12/11/95

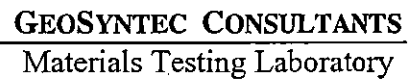
CLIENT: Cashin and Associates
PROJECT: Huntington / East Northport Landfill Closure
CONTACT: Mr. David Williams
GEOSYNTEC JOB NO.: GQ3700

[illegible]

COMMENTS:

RD = ROLL DIRECTION
XD = CROSS-ROLL DIRECTION

© 1995 GEOSYNTEC CONSULTANTS



MATERIAL: Polypropylene / Polyethylene
CLIENT ID: Sample P-24, Roll 50911901
DATE TESTED: 12/11/95

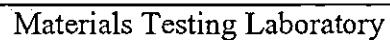
CLIENT: *Cashin and Associates*
PROJECT: *Huntington / East Northport Landfill Closure*
CONTACT: *Mr. David Williams*
GEOSYNTec JOB NO.: *GQ3700*

SUMMARY RESULTS

[illegible]

RD = ROLL DIRECTION
XD = CROSS-ROLL DIRECTION

© 1995 GEOSYNTEC CONSULTANTS



CLIENT: Cashin and Associates
PROJECT: Huntington/ East Northport Landfill Closure
CONTACT: Mr. David Williams
JOB NO.: GQ3700

MATERIAL: Polypropylene / Polyethylene
CLIENT ID: Sample P-25, Roll 050910911
DATE TESTED: 12/11/95

SUMMARY RESULTS

[illegible]

RD = ROLL DIRECTION:
XD = CROSS-ROLL DIRECTION

© 1995 GEOSYNTEC CONSULTANTS

GEOCOMPOSITE TEST RESULTS

CLIENT: Cashin and Associates
PROJECT: Huntington / East Northport Landfill Closure
CONTACT: Mr. David Williams
GEOSYNTEC JOB NO.: GQ3700

MATERIAL: Polypropylene / Polyethylene
CLIENT ID: Sample P-26, Roll 50904919
DATE TESTED: 12/11/95

INDIVIDUAL SPECIMENS

[illegible]

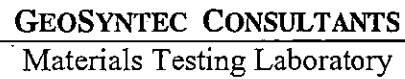
SUMMARY RESULTS

[illegible]

COMMENTS:

RD = ROLL DIRECTION
XD = CROSS-ROLL DIRECTION

© 1995 GEOSYNTEC CONSULTANTS



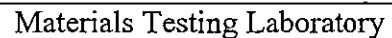
MATERIAL: Polypropylene / Polyethylene
CLIENT ID: Sample P-27, Roll 50827908
DATE TESTED: 12/11/95

INDIVIDUAL SPECIMENS

[illegible][illegible]

RD = ROLL DIRECTION
XD = CROSS-ROLL DIRECTION

© 1995 GEOSYNTEC CONSULTANTS



CLIENT: Cashin and Associates
PROJECT: Huntington / East Northport Landfill Closure
CONTACT: Mr. David Williams
C JOB NO.: GQ3700

MATERIAL:- Polypropylene / Polyethylene
CLIENT ID: Sample P-28, Roll 5061092
DATE TESTED: 12/11/95

SUMMARY RESULTS

[illegible]

COMMENTS:

RD = ROLL DIRECTION
XD = CROSS-ROLL DIRECTION

© 1995 GEOSYNTEC CONSULTANTS



GEOSYNTEC CONSULTANTS

Materials Testing Laboratory

GEOCOMPOSITE TEST RESULTS

CLIENT: Cashin and Associates

PROJECT: Huntington / East Northport Landfill Closure

CONTACT: Mr. David Williams

GEOSYNTEC JOB NO.: GQ3700

MATERIAL: Polypropylene / Polyethylene

CLIENT ID: Sample P-29, Roll 50918902

DATE TESTED: 12/11/95

INDIVIDUAL SPECIMENS

1	2	3	4	5	6	7	8	9	10
2270	3178	2951							
2724	2270	2724							
2724	1135	1816							
908	1362	1589							

SUMMARY RESULTS

PROPERTY (STANDARD)	UNIT	MEAN	STD	SPEC.	PASS/FAIL
PEEL STRENGTH (ASTM F904)	g/in.				
TOP					
RD		2800	472.5		
XD		2573	262.1		
BOTTOM					
RD		1892	797.2		
XD		1286	346.7		

COMMENTS:

RD = ROLL DIRECTION

XD = CROSS-ROLL DIRECTION

© 1995 GEOSYNTEC CONSULTANTS

GEOCOMPOSITE TEST RESULTS

CLIENT: *Cashin and Associates*
PROJECT: *Huntington / East Northport Landfill Closure*
CONTACT: *Mr. David Williams*
GEOSYNTEC JOB NO.: *GQ3700*

MATERIAL: Polypropylene / Polyethylene
CLIENT ID: Sample P-30, Roll 50918906
DATE TESTED: 12/11/95

[illegible]

COMMENTS:

RD = ROLL DIRECTION
XD = CROSS-ROLL DIRECTION

© 1995 GEOSYNTEC CONSULTANTS



GEOSYNTEC CONSULTANTS

Materials Testing Laboratory

GEOCOMPOSITE TEST RESULTS

CLIENT: Cashin and Associates
PROJECT: Huntington / East Northport Landfill Closure
CONTACT: Mr. David Williams
GEOSYNTEC JOB NO.: GQ3700

MATERIAL: Polypropylene / Polyethylene
CLIENT ID: Sample P-31, Roll 50929901
DATE TESTED: 12/11/95

INDIVIDUAL SPECIMENS

1	2	3	4	5	6	7	8	9	10
2270	2270	2497							
2043	1589	2270							
1135	908	2043							
2270	681	1362							

SUMMARY RESULTS

PROPERTY (STANDARD)	UNIT	MEAN	STD	SPEC.	PASS/FAIL
PEEL STRENGTH (ASTM F904)	g/in.				
TOP					
RD		2346	131.1		
XD		1967	346.7		
BOTTOM					
RD		1362	600.6		
XD		1438	797.2		

COMMENTS:

RD = ROLL DIRECTION
XD = CROSS-ROLL DIRECTION

© 1995 GEOSYNTEC CONSULTANTS



GEOSYNTec CONSULTANTS

Materials Testing Laboratory

GEOCOMPOSITE TEST RESULTS

CLIENT: Cashin and Associates
PROJECT: Huntington / East Northport Landfill Closure
CONTACT: Mr. David Williams
GEOSYNTec JOB NO.: GQ3700

MATERIAL: Polypropylene / Polyethylene
CLIENT ID: Sample P-32, Roll 50624911
DATE TESTED: 12/11/95

INDIVIDUAL SPECIMENS

1	2	3	4	5	6	7	8	9	10
1884	2758	2826							
2513	1907	2474							
1430	545	976							
1521	1521	1725							

SUMMARY RESULTS

PROPERTY (STANDARD)	UNIT	MEAN	STD	SPEC.	PASS/FAIL
PEEL STRENGTH (ASTM F904)	g/in.				
TOP					
RD		2489	525.3		
XD		2298	339.3		
BOTTOM					
RD		984	442.7		
XD		1589	118.0		

COMMENTS:

RD = ROLL DIRECTION
 XD = CROSS-ROLL DIRECTION

© 1995 GEOSYNTec CONSULTANTS

GEOCOMPOSITE TEST RESULTS

CLIENT: *Cashin and Associates*
PROJECT: *Huntington / East Northport Landfill Closure*
CONTACT: *Mr. David Williams*
GEOSYNTEC JOB NO.: *GQ3700*

MATERIAL: Polypropylene / Polyethylene
CLIENT ID: Sample P-33, Roll 5041208D
DATE TESTED: 12/11/95

INDIVIDUAL SPECIMENS

[illegible]

SUMMARY RESULTS

[illegible]

COMMENTS:

RD = ROLL DIRECTION
XD = CROSS-ROLL DIRECTION

© 1995 GEOSYNTEC CONSULTANTS

GEOCOMPOSITE TEST RESULTS

CLIENT: Cashin and Associates
PROJECT: Huntington / East Northport Landfill Closure
CONTACT: Mr. David Williams
GEOSYNTEC JOB NO.: GQ3700

MATERIAL: Polypropylene / Polyethylene
CLIENT ID: Sample P-34, Roll 5041208B
DATE TESTED: 12/11/95

INDIVIDUAL SPECIMENS

SUMMARY RESULTS

[illegible]

COMMENTS:

RD = ROLL DIRECTION
XD = CROSS-ROLL DIRECTION

© 1995 GEOSYNTEC CONSULTANTS



GEOSYNTec CONSULTANTS

Materials Testing Laboratory

GEOCOMPOSITE TEST RESULTS

CLIENT: Cashin and Associates
PROJECT: Huntington / East Northport Landfill Closure
CONTACT: Mr. David Williams
GEOSYNTec JOB NO.: GQ3700

MATERIAL: Polypropylene / Polyethylene
CLIENT ID: Sample P-35
DATE TESTED: 12/22/95

INDIVIDUAL SPECIMENS

1	2	3	4	5	6	7	8	9	10
1873	1986	2667							
2490	1759	2020							
1986	2440	3348							
3223	2713	2797							

SUMMARY RESULTS

PROPERTY (STANDARD)	UNIT	MEAN	STD	SPEC.	PASS/FAIL
PEEL STRENGTH (ASTM F904)	g/in.				
TOP					
RD		2175	429.7		
XD		2090	370.4		
BOTTOM					
RD		2592	693.5		
XD		2911	273.9		

COMMENTS:

RD = ROLL DIRECTION
XD = CROSS-ROLL DIRECTION

© 1995 GEOSYNTec CONSULTANTS



GEOSYNTec CONSULTANTS

Materials Testing Laboratory

GEOCOMPOSITE TEST RESULTS

CLIENT: Cashin and Associates
PROJECT: Huntington / East Northport Landfill Closure
CONTACT: Mr. David Williams
GEOSYNTec JOB NO.: GQ3700

MATERIAL: Polypropylene / Polyethylene
CLIENT ID: Sample P-36
DATE TESTED: 12/22/95

INDIVIDUAL SPECIMENS

1	2	3	4	5	6	7	8	9	10
3666	3705	3239							
3553	3575	3262							
4143	3478	2985							
2876	1930	2592							

SUMMARY RESULTS

PROPERTY (STANDARD)	UNIT	MEAN	STD	SPEC.	PASS/FAIL
PEEL STRENGTH (ASTM F904)	g/in.				
TOP					
RD		3537	258.3		
XD		3463	174.7		
BOTTOM					
RD		3535	581.0		
XD		2466	485.8		

COMMENTS:

RD = ROLL DIRECTION
XD = CROSS-ROLL DIRECTION

© 1995 GEOSYNTec CONSULTANTS



GEOSYNTec CONSULTANTS

Materials Testing Laboratory

GEOCOMPOSITE TEST RESULTS

CLIENT: Cashin and Associates
PROJECT: Huntington / East Northport Landfill Closure
CONTACT: Mr. David Williams
GEOSYNTec JOB NO.: GQ3700

MATERIAL: Polypropylene / Polyethylene
CLIENT ID: Sample P-37
DATE TESTED: 04/11/96

INDIVIDUAL SPECIMENS

1	2	3	4	5	6	7	8	9	10
4086	3859	3859							
3178	3632	1589							
4994	3859	2270							
3178	4313	4086							

SUMMARY RESULTS

PROPERTY (STANDARD)	UNIT	MEAN	STD	SPEC.	PASS/FAIL
PEEL STRENGTH (ASTM F904)	g/in.				
TOP					
RD		3935	131.1		
XD		2800	1072.8		
BOTTOM					
RD		3708	1368.3		
XD		3859	600.6		

COMMENTS:

RD = ROLL DIRECTION
 XD = CROSS-ROLL DIRECTION

© 1996 GEOSYNTec CONSULTANTS

APPENDIX L

GSE PERSONNEL RESUMES



GSE Lining Technology, Inc.

19103 Gundie Road
Houston, Texas 77073
800-435-2008
713-443-8564
Fax: 713-875-6010

Job Name: Huntington Closure
Job No.: A442
Supervisor: Bob Brewster

Employee's Onsite

<u>Name</u>	<u>Social Security</u>
Robert Brewster	208-36-4222
Rethy Roath	545-67-7872
Antonio Cano	462-68-2381
Sivong Hongkham	466-57-3517
Randy Story	526-49-3024
Kongchay Chanthachone	466-49-9935
April Lawn	123-62-4576
Krongkeo Luangraj	451-55-0023
Junpen Moolkhom	238-19-6543
Khamphouih Ounkeo	620-32-1502
Vanh Sayaphokha	357-68-2534
Christine Soundara	630-03-3002
Keooudone Soundara	465-77-9382
Bounnio Southammavong	624-40-1297
Sithat Southammavong	624-40-2322
Thongkham Thammavongsa	576-41-2669
Nghia Tran	461-87-1339
Viengxay Keophovangphet	554-83-0937
Khamphone Sihavong	558-97-4933
Mik Sivongsay	565-89-4789



GSE Lining Technology, Inc.

RESUME

NAME : Robert Brewster

POSITION : Supervisor 1

EXPERIENCE : Has been employed by Gundle Lining Construction Corp. since 09/06/88 and has worked on the following projects :

19103 Gundle Road
Houston, Texas 77073
800-435-2008
713-443-8564
Fax: 713-875-6010

PROJECT	LOCATION	SQ FT
-----	-----	-----
VIRGINIA MEDICAL CENTER TANK	HAMPTON VA	6,523
WALT DISNEY WORLD POND	LAKE BUENA VIST FL	174,399
CITY OF SPARTA	Sparta GA	86,046
ARIZONA CHEMICAL BASIN	PANAMA CITY FL	9,628
ASHLAND CHEMICAL FOUNDATION	ST LOUIS MO	1,900
ASHLAND CHEMICAL FOUNDATION	ST LOUIS MO	3,761
GEORGIA PACIFIC BLOCK POND	MONTICELLO MS	275,081
NEW MILFORD LF CAP PHASE 2	NEW MILFOR CT	147,727
CHEMUNG CO LF PHASE II	LOWMAN NY	344,775
BROOKHAVEN LANDFILL & CAP	BROOKHAVEN NY	470,238
BFI FALL RIVER A1, A2, B	FALL RIVER MA	66,264
SHELTON ASHFILL	SHELTON CT	166,056
CENTRAL ARTERY DISPOSAL CELL	BOSTON MA	86,500
RANDOLPH CLOSURE PHASE II	RANDOLPH MA	38,775
FRESHKILLS CLOSURE AREA 2/8	STATEN ISLAND NY	1,076,001
WESTERN BERKS CELL 1-5	Birdsboro PA	248,000
PINE GROVE SANITARY LANDFILL	PINE GROVE PA	28,982
MODERN LANDFILL SLOPE B/C	YORK PA	5,970
CHARLES GEORGE POND	Tyngsboro MA	10,573
BFI IMPERIAL	IMPERIAL PA	25,000
KEYSTONE LANDFILL CAP	DUNMORE PA	37,702
WESTERN BERKS AUTHORITY	BIRDSBORO PA	831,842
PELLEGRENE CAP #9746-17	HOMER CITY PA	44,638
LAUREL HIGHLANDS LANDFILL	VINTONDALE PA	171,355
BFI MORGANTOWN	MORGANTOWN PA	3,121,024
BFI GREENTREE CELL E2-B	KERSEY PA	242,060
BFI MORGANTOWN	MORGENTOWN PA	2,677,086
CITY OF NEWPORT NEWS	NEWPORT NEWS VA	53,735
MANN LANDFILL PHASE I CELL 1	KING WILLIAM CO VA	1,218,831
CARROLL COUNTY LF EXP III	HILLSVILLE VA	51,353
KING AND QUEEN COUNTY LANDFILL	LITTLE PLYMOUTH VA	301,740
ABEX CORP LANDFILL	WINCHESTER VA	71,376
FREDRICK COUNTY LANDFILL EXP	WINCHESTER VA	10,000
LOUDEN COUNTY LF EXP	LEESBURG VA	257,212
AAA PROJECT	LAKE MARY FL	244,026
PASCO COUNTY LF CLASS III & I	SPRINGHILL FL	1,090,234
FRANKLIN COUNTY CENTRAL LF	EAST POINT FL	244,350
CSWCCHULA LANDFILL	MOBILE AL	765,239
HILLSBOROUGH AVIATION	TAMPA FL	40,524

For environmental lining solutions . . . the world comes to GSE™.

A Gundle/SLT Environmental, Inc. Company



GSE Lining Technology, Inc.

RESUME

19103 Gundie Road
Houston, Texas 77073
800-435-2008
713-443-8564
Fax: 713-875-6010

NAME : Robert Brewster

POSITION : Supervisor 1

EXPERIENCE : Has been employed by Gundie Lining Construction Corp. since 09/06/88 and has worked on the following projects :

PROJECT	LOCATION	SQ FT
GENOROSTEE CREEK WWTP	ANDERSON SC	46,414
HILLSBOROUGH COUNTY AVIATION	TAMPA FL	282,518
BEE RIDGE LF PHASE 1 & 2 CAP	SARASOTA FL	4,274,011
CROOM LANDFILL P 1 AND II CAP	BROCKSVILLE FL	1,540,619
IMC FERTILIZER GYPSUM EXP.	MULBERRY FL	9,225,163
CITY OF SARALAND	SARALAND AL	1,603,120
WAYNE DISPOSAL CELL D	BELLEVILLE MI	38,395
ALLIANCE LANDFILL PHASE I EXP	ALLIANCE NE	435,348
WELDON SPRINGS STORAGE	ST. CHARLES MO	1,200
NORTHERN STATES POWER	BECKER MN	495,379
SEQUOYAH POND #2	GORE OK	226,594
KERR MCGEE	HAMILTON MS	189,893
CSC LANDFILL REPUBLIC WASTE	AVALON TX	170,508
LA GLORIA REFINERY	TYLER TX	34,903
SANTA FE LAKE DIKE LINER	CLOVIS NM	68,926
CITY OF ALBUQUERQUE LANDFILL	ALBUQUERQUE NM	1,198,971
LACKAWANA REFUSE SUPERFUND	OLD FORGE PA	600,000
KEYSTONE LANDFILL CELL 1,2,3	DUNMORE PA	1,300,000
FREY FARM LEACHATE PLANT	Lancaster PA	1,614,372
WASTE MANAGEMENT	TULLEYTOWN PA	1,250,000
ENVIRITE	BIRDSBORO PA	225,278
Total Sq Ft		39,614,104



GSE Lining Technology, Inc.

RESUME

19103 Gundle Road
Houston, Texas 77073
800-435-2008
713-443-8564
Fax: 713-875-6010

NAME : Rethy Roath

POSITION : Supervisor 1

EXPERIENCE : Has been employed by Gundle Lining Construction Corp. since 12/08/86 and has worked on the following projects :

PROJECT	LOCATION	SQ FT
-----	-----	-----
NEW ENGLAND POWER	SOMERSET MA	51,467
KODAK ROCHESTER TANK LINING	PEABODY MA	
ISLIP FLOATING COVER	HAUPPAUGE NY	75,600
LILCO POND LINER	LONG ISLAND NY	17,720
PHASE IV TANK CONTAINMENT	INDIANAPOLIS IN	4,246
LAWRENCE ROAD LANDFILL MANHOLE	NORTH BEND OH	14,702
SUN PIPELINE TANK	SINKING SPRING PA	19,075
OHIO EDISON CORTLAND	CORTLAND OH	1,767
PETRO ENV TECHNOLOGIES	WASHINGTON CT H OH	20,790
ENVIROSAFE WASTE BUILDING	OREGON OH	78,759
CITY OF FOSTORIA WWTP	FOSTORIA OH	48,493
ASAHI MOTOR WHEEL	SOMERSET KY	5,730
MALLINCKRODT WASTE TREATMENT	RALEIGH NC	7,790
ATO-CHEM 141-B JOB II	CALVERT CITY KY	776
HOLLY POINT RECREATION WWTP	WAKE FOREST NC	23,980
GUILFORD MILLS COLOR REDUCTION	GREENSBORO NC	10,200
CHEMCENTRAL GREENSBORO	JAMESTOWN NC	12,492
HAILEX CO. POND LINER	CRYSTAL HILL VA	63,520
G E PLASTICS UTILITIES	BURKVILLE AL	1,873
WALTON COUNTY CORRECTIONAL	DEFUNIACK SPGS FL	4,032
JACKSON COUNTY INSTITUTION	MALONE FL	
TAMPA ELEC. POLK POWER RINGWALL	MULBERRY FL	4,663
TRANSCONTINENTAL GAS TANK PAD	DUNCANVILLE AL	3,673
FLORENCE COUNTY DISTRICT #6	EFFINGHAM SC	22,510
ROBERT BOSCH CO FOUNDATION	CHARLESTON SC	150
UNIVERSITY OF GEORGIA FUEL	ATHENS GA	25,203
ETHYL CORP TRENCH LINING	ORANGEBURG SC	3,123
CITGO ASPHALT REFINING	SAVANNAH GA	1,256
SANDERS TANK	TROY AL	17,158
CONVERSION SYSTEMS RAILROAD	STERLING IL	23,783
3 M TANK LINER	CORDOVA IL	6,464
MILLER COMPRESSING COMPANY	MILWAUKEE WI	41,420
CABLEC COOLING POND	DU QUOIN IL	22,724
CITY OF HIGHLAND VILLAGE	HIGHLAND VILLAG TX	6,525
COASTAL TERMINAL WASH PROJ	FREEPORT TX	5,856
MOBIL COLLECTION DITCH E1-1	BEAUMONT TX	27,148
BASF CHEMICAL 900 BLOCK PIT	FREEPORT TX	84,541
ROHM & HAAS AMONIA RECYCLE	DEER PARK TX	5,228
DOW CHEMICAL B PLANT	FREEPORT TX	16,306

For environmental lining solutions . . . the world comes to GSE™.

A Gundle/SLT Environmental, Inc. Company



GSE Lining Technology, Inc.

R E S U M E

19103 Gundle Road
Houston, Texas 77073
800-435-2008
713-443-8564
Fax: 713-875-6010

NAME : Rethy Roath

POSITION : Supervisor 1

EXPERIENCE : Has been employed by Gundle Lining Construction Corp. since 12/08/86 and has worked on the following projects :

PROJECT	LOCATION	SQ FT
DOW CHEMICAL B-2825	FREEPORT TX	2,382
UNOCAL API SEPARATOR	NEDERLAND TX	2,780
MARATHON OIL RINGWALL	TEXAS CITY TX	1,103
OLD MCMILLIAN STORAGE PAD	NORPHLET AR	12,300
NPC SERVICES SECONDARY CONTAIN	BATON ROUGE LA	26,422
CONSERVATION SERVICES DRUM STR	BENNETT CO	8,626
KENNECOTT TANK REPAIR	COPPERTON UT	16,012
UNOCAL BASIN #1 FLOATING COVER	WILMINGTON CA	42,187
901 TOWER TANK LINING	LOS ANGELES CA	6,528
BFI CHICOPEE PHASE IV CAP	CHICOPEE MA	454,412
BLYDENBURG CLOSURE	HAUPPAUGE NY	3,894
FRESHKILLS CLOSURE AREA 2/8	STATEN ISLAND NY	172,369
TUXEDO LANDFILL CLOSURE	TUXEDO NY	405,043
BFI MARYLAND OAKS ASH CELL	LAYTONSVILLE MD	412,118
ANNE ARUNDEL COUNTY LANDFILL	DEALE MD	832,331
RESERVE ENVIRONMENTAL LANDFILL	ASHTABULA OH	8,083
MONTVILLE LF	MEDINA OH	57,935
PRINCE GEORGES COUNTY CELL 4	UPPER MARLBORO MD	605,959
ENVIROSAFE CELL M PHASE 2	OREGON OH	129,141
BERRYVILLE N. SEWAGE LAGOON	BERRYVILLE VA	134,180
GHENT GENERATING STATION	GHENT KY	735,000
62ND STREET SUPERFUND SITE CAP	TAMPA FL	161,681
SUWANNEE COUNTY LF	LIVE OAK FL	4,137
ALLIED WASTE	HOOPESTON IL	40,951
DIXON LANDFILL	DIXON IL	139,960
KERR MCGEE	HAMILTON MS	924,292
LAIDLAW CELL #4 SECTION C	TYLER TX	88,769
SF PHOSPHATES GYPSUM EXP	ROCK SPRINGS WY	215,994
USPCI CELL 6	GRASSY MOUNTAIN UT	438,377
BALTIC LEACH RAND MINING	RANDBURG CA	802,454
VILLAGE OF LOWELL	LOWELL OH	26,542
FRAZEYSBURG WWTP	FRAZEYSBURG OH	48,912
RONALD REAGAN STATE OFF. BLDG	LOS ANGELES CA	50,230
GE PHASE II BPA TANK 9	BURKVILLE AL	13,251

Total Sq Ft

7,808,365



GSE Lining Technology, Inc.

RESUME

19103 Gundle Road
Houston, Texas 77073
800-435-2008
713-443-8564
Fax: 713-875-6010

NAME : Antonio Cano

POSITION : Const. Foreman

EXPERIENCE : Has been employed by Gundle Lining Construction Corp. since 07/30/84 and has worked on the following projects :

PROJECT	LOCATION	SQ FT
-----	-----	-----
CITY OF SPARTA	Sparta GA	93,930
SAN LUIS CANAL	LOS BANOS CA	163,868
BFI FALL RIVER LF P. II SEC II	FALL RIVER MA	19,214
HARRISBURG FACILITY	HARRISBURG PA	6,583
JAMES RIVER CORP	MILFORO NJ	54,161
BFI IMPERIAL	IMPERIAL PA	75,223
OCEAN COUNTY CELL 6	LAKEHURST NJ	58,034
KELLY RUN FINAL CLOSURE	ELIZABETH PA	17,296
SECCRA LANDFILL PHASE II	WEST GROVE PA	12,724
LAUREL HIGHLANDS LANDFILL	VINTONDALE PA	15,475
EDGEBORO/MIDDLESEX PHASE II	EAST BRUNSWICK NJ	65,194
ABEX CORP LANDFILL	WINCHESTER VA	7,173
OHIO EDISON REHABILITATION	TORONTO OH	18,975
BEAR ISLAND PAPER LF	ASHLAND VA	39,177
HOECHST CELANESE CORP	NARROWS, VA	318,071
ABEX CORP LANDFILL	WINCHESTER VA	4,504
LOUDEN COUNTY LF EXP	LEESBURG VA	34,414
VALLEY VIEW LANDFILL ***	SULFER KY	49,907
GENOROSTEE CREEK WWTP	ANDERSON SC	35,642
LAND RECLAMATION	RACINE WI	21,908
TORK LANDFILL CAP	WISCONSIN RAPID WI	116,511
DAUBS LANDFILL	FAIRFIELD IL	1,995
NSP CAP #1 SCRUBBER POND	BECKER MN	139,120
NORTH SOUTH LANDFILL 1 & 2	ELDORADO AR	39,015
USPCI LONE MTN CAP 4,6,7,8	ORIENTA OK	63,312
PINE BLUFF ARSENAL REPAIR	PINE BLUFF AR	148,193
GULF COAST WASTE DISPOSAL	TEXAS CITY TX	5,267
WESTERN WASTE INDUSTRIES	TEXARKANA AR	3,304
ST. JOHNS LF SUBAREA 1	PORTLAND OR	255,043
COWLITZ COUNTY LANDFILL	LONGVIEW, WA	176,779
ATOCHAM WASTE CONTAINMENT	TACOMA WA	42,480
MAGMA COPPER N E PAD EXP	San Manoel AZ	14,399
CYPRUS MIAMI MINING CORP.	CLAYPOOL AZ	93,587
KENNECOTT LARGE SLIME RESV.	BINGHAM CANYON UT	16,467
USPCI CELL 2	KNOLLS UT	122,916
DENVER LAIDLAW LANDFILL	DENVER, CO	112,615
KETTLEMANS BIG PHASE 2 & 3	KETTLEMAN CITY CA	127,869
TIMET CO. LIQUID CONTAINMENT	HENDERSON NV	50,266
BUTTE COUNTY/NEIL ROAD	CHICO CA	21,090

For environmental lining solutions . . . the world comes to GSE™.

A Gundle/SLT Environmental, Inc. Company



GSE Lining Technology, Inc.

RESUME

19103 Gundle Road
Houston, Texas 77073
800-435-2008
713-443-8564
Fax: 713-875-6010

NAME : Antonio Cano

POSITION : Const. Foreman

EXPERIENCE : Has been employed by Gundle Lining Construction Corp. since 07/30/84 and has worked on the following projects :

PROJECT	LOCATION	SQ FT
-----	-----	-----
AZUSA LAND REC CO	AZUSA CA	21,287
PINE BLUFF ARSENAL	Pine Bluff AR	169,648
ALLIED MATERIALS	Stroud OK	101,040
STANDARD INDUSTRIES	SAN ANTONIO TX	6,173
MAGMA COPPER REPAIR	SAN MANUAEL AZ	
GULF COAST LANDFILL	FT. MYERS FL	256,698
CIBA GEIGY	MCINTOSH AL	61,856
CHEMICAL WASTE MANAGEMENT	KETTLEMAN CITY CA	20,000
GEORGIA POWER	WAYNESBORO GA	32,150
LANZO CONSTRUCTION	ORLANDO FL	135,400
RAIN LEACH	CARLIN NV	265,000
CIBA GEIGY	MCINTOSH AL	50,000
U.S.P.C.I.	LONE MOUNTAIN OK	25,000
CHEMICAL WASTE MANAGEMENT	KETTLEMAN CITY CA	250,000
CHEMICAL WASTE MANAGEMENT	EMELLE AL	42,240
WITCO CHEMICAL	PETROLIA PA	4,000
ALLIED FIBERS	HOPEWELL VA	224,840
WASTE MANAGEMENT	CAPE MAY NJ	30,000
GSX/GENSTAR	PINEWOOD SC	175,000
PHILLIPS	SWEENEY TX	64,744
WAYNE DISPOSAL	DEARBORN MI	80,000
EMELLE FACILITY	EMELLE AL	193,286
B.F.I./CECOS	LIVINGSTON LA	15,000
SEVENSON	MODEL CITY NY	40,000
HENDRICKSON BROTHERS	NORTH HEMPSTEAD NY	166,730
U.S.P.C.I.	KNOLLS UT	22,880
CITY OF JACKSONVILLE	JACKSONVILLE FL	31,250
KING COUNTY	SEATTLE WA	12,000
CARLIN GOLD	CARLIN NV	80,000
COCA COLA	GENEVA OH	30,000
YAKA TUNNEL	LEADVILLE CO	165,000
GENERAL CINEMA	TWINSBURG OH	30,000

Total Sq Ft

5,475,708



GSE Lining Technology, Inc.

RESUME

19103 Gundle Road
Houston, Texas 77073
800-435-2008
713-443-8564
Fax: 713-875-6010

NAME : Sivong Hongkham

POSITION : Const. Foreman

EXPERIENCE : Has been employed by Gundle Lining Construction Corp. since 01/07/91 and has worked on the following projects :

PROJECT	LOCATION	SQ FT
BURLINGTON STORAGE DYKE	BURLINGTON NJ	1,309
SUN OIL RINGWALL	PHILADELPHIA PA	804
MODEL CITY SLF 12	MODEL CITY NY	680,801
ELLERY LF PH 3 STAGE 2	GERRY NY	8,408
RODMAN LANDFILL	RODMAN NY	1,434,627
TOWN OF ISLIP LF LEVEL C & D	ISLIP NY	116,983
BURLINGTON VT LANDFILL	BURLINGTON VT	3,333
CROTON LANDFILL CAP	CROTON ON HUDSO NY	27,957
BFI FALL RIVER A1, A2, B	FALL RIVER MA	109,438
BLYDENBURG CLOSURE	HAUPPAUGE NY	3,494,138
MOUNT WASHINGTON PHASE I LF	CONWAY NH	501,504
DEER ISLAND SECURE LF CAP	HARVARD MA	181,981
AL TURI TEMPORARY FINAL COVER	GOSHEN NY	128,810
MODERN LANDFILL SLOPE B/C	YORK PA	117,543
TULLEYTOWN CELL 7	TULLYTOWN PA	159,804
WESTMORELAND COUNTY	MONESSEN PA	298,307
EDGEBORO LANDFILL P II CELL II	EAST BRUNSWICK NJ	524,477
OCEAN COUNTY CELL 5 LF	LAKEHURST NJ	93,872
MONROEVILLE LANDFILL	MONROEVILLE PA	147,247
CITISTEEL DUST PILE CAP	CLAYMONT DE	107,203
ARDEN LANDFILL	WASHINGTON PA	340,305
BFI OAKS LANDFILL	LAYTONSVILLE MD	148,359
STARR ENTERPRISES LANDFILL	DELAWARE CITY DE	109,464
LEBANON PHASE I CAP	LEBANON PA	20,200
SECCRA LANDFILL PHASE II	WEST GROVE PA	38,630
MONONGALIA COUNTY LF	WESTOVER WV	4,109
AMELIA COUNTY LANDFILL	AMELIA COUNTY VA	452,054
ARBOR HILLS EXP CELL 1	NORTHVILLE MI	71,610
EAU CLAIRE CNTY LF PHASE II	EAU CLAIRE WI	28,072
GRASSY MTN WASTE CELL 3	KNOLLS UT	7,086
ORLEANS SANITARY LANDFILL	Albion NY	
CUMBERLAND LANDFILL	MILLVILLE NJ	62,516
BFI FALL RIVER	FALL RIVER MA	
CHEMICAL WASTE MANAGEMENT	LAKE CHARLES LA	50,000
CELANESE	BISHOP TX	44,985
CIBA GEIGY	MCINTOSH AL	34,800
CECOS/B.F.I.	LIVINGSTON AL	80,800
CECOS/B.F.I.	WILLIAMSBURG OH	65,863
PARK CONSTRUCTION	CASS LAKE MN	31,000



GSE Lining Technology, Inc.

RESUME

19103 Gundle Road
Houston, Texas 77073
800-435-2008
713-443-8564
Fax: 713-875-6010

NAME : Sivong Hongkham

POSITION : Const. Foreman

EXPERIENCE : Has been employed by Gundle Lining Construction Corp. since 01/07/91 and has worked on the following projects :

PROJECT	LOCATION	SQ FT
ORLEANS LANDFILL	ALBION NY	65,000
HUBBARD CONSTRUCTION	OCEE FL	21,000
GROWS	MORRISVILLE PA	20,000

Total Sq Ft	9,927,849



GSE Lining Technology, Inc.

RESUME

19103 Gundle Road
Houston, Texas 77073
800-435-2008
713-443-8564
Fax: 713-875-6010

NAME : Randy Story

POSITION : Const. Foreman

EXPERIENCE : Has been employed by Gundle Lining Construction Corp. since 08/10/90 and has worked on the following projects :

PROJECT	LOCATION	SQ FT
TEXAS GULF GYPSUM DIKE LINER	AURORA NC	5,000
SAN LUIS CANAL	LOS BANOS CA	124,425
TOWN OF BABYLON P3 CELL 2,3	W.BABYLON NY	1,417
BROOKHAVEN LANDFILL & CAP	BROOKHAVEN NY	126,289
OCEAN COUNTY CELL 5 LF	LAKEHURST NJ	3,962
YORK COUNTY LANDFILL CAP	STEWARTSTOWN PA	26,729
CHANCELLOR LANDFILL CAP	FREDERICKSBURG VA	109,477
SHOOSMITH BROS LF	CHESTER VA	33,617
COAL CREEK PONDS 92 & 94	UNDERWOOD ND	223,894
WELDON SPRINGS STORAGE	ST. CHARLES MO	56,907
LABADIE POWER PLANT ASH POND	LABADIE MO	103,057
LAIDLAW SE LANDFILL	KANSAS CITY MO	5,508
STANDARD IND	SAN ANTONIO TX	51,079
AGRICO CHEMCIAL	ST JAMES LA	42,284
CALAVERAS LAKE PIT CLASS I	SAN ANTONIO TX	3,485
SNOHOMISH COUNTY LANDFILL	SNOHOMISH WA	26,373
CEDARVILLE LANDFILL	CEDARVILLE WA	71,139
ENVIROSAFE MANAGEMENT INC	GRANDVIEW ID	137,825
ARIZONA NUCLEAR POWER #1	PALO VERDE AZ	1,258,895
NA COLITE PROJECT	RIFLE CO	35,488
KENNECOTT LARGE SLIME RESV.	BINGHAM CANYON UT	31,637
UNION OIL CO POND	PARACHUTE CO	21,624
LAIDLAW DENVER	ERIE CO	26,345
NEWMONT MINING NORTH AREA P 3	CARLIN NV	135,695
LA HONDA LOWER RESERVOIR	LA HONDA CA	6,513
NEWMONT GOLD SOUTH LEACH PAD	CARLIN NV	6,823
BARRICK GOLDSTRIKE PHASE III	CARLIN NV	47,274
BARRICK GOLDSTRIKE AA POND	ELKO NV	2,276
NEWMONT GOLD NON-PROPERTY	CARLIN NV	72,422
KAPOLEI GOLF COURSE	OAHU, HAWAII HI	43,300

Total Sq Ft

2,840,759

For environmental lining solutions... the world comes to GSE™.

A Gundle/SET Environmental, Inc. Company



GSE Lining Technology, Inc.

RESUME

NAME : Kongchay Chanthachone

POSITION : Technician

EXPERIENCE : Has been employed by Gundle Lining Construction Corp. since 01/11/88 and has worked on the following projects :

19103 Gundle Road
Houston, Texas 77073
800-435-2008
713-443-8564
Fax: 713-875-6010

PROJECT	LOCATION	SQ FT
-----	-----	-----
DEERFIELD ESTATES LAGOON	COLUMBIAVILLE MI	25,593
SOUTH POINTE	ERWIN PA	3,725
SUN REFINING TANKS 134 & 505	OREGON OH	876
OHIO EDISON TRANSFORMER	MARION OH	1,458
BIOTHANE CORP TANK LINING	UNIVERSITY PARK IL	638
ESSEX COUNTY LANDFILL	LEWIS NY	77,772
ELLERY LF PH 3 STAGE 2	GERRY NY	114,216
QUINCY CAP PHASE I & II	QUINCY MA	11,993
TOWN OF BABYLON P3 CELL 2,3	W.BABYLON NY	13,557
MASS MILITARY RESERVAT CLOSURE	CAPE COD MA	1,658,387
BABYLON CLOSURE	WEST BABYLON NY	14,729
MASSACHUSETTS DPW TUNNEL CAP	BOSTON MA	65,847
FORMOSA PLASTICS IMP/PH1	DELAWARE CITY DE	7,225
PINE GROVE SANITARY LANDFILL	PINE GROVE PA	35,596
POTTSTOWN CELL 6	POTTSTOWN PA	11,471
LANCHESTER LF EXPANSION	HONEY BROOK PA	5,669
CHARLES GEORGE POND	Tyngsboro MA	6,266
BFI GREENTREE B1, B2	BROCKWAY PA	99,533
HARRISBURG FACILITY	HARRISBURG PA	86,939
C & K IMPOUNDMENT #3	GIBRALTER PA	111,699
CHESTER COUNTY	HONEY BROOK PA	15,491
KEYSTONE LANDFILL CAP	DUNMORE PA	5,616
EDGEBORO LANDFILL P II CELL II	EAST BRUNSWICK NJ	11,507
FREY FARM LANDFILL CELL 3	CONESTOGA PA	321,815
DELAWARE SOLID WASTE AUTHORITY	SANDTOWN, DE	267,086
SOUTHERN ALLEGHENIES	HOLLSOPPLE PA	88,069
SECCRA LANDFILL PHASE II	WEST GROVE PA	139,999
EDGEBORO/MIDDLESEX PHASE II	EAST BRUNSWICK NJ	15,663
CHRIN BROTHERS LANDFILL	EASTON PA	55,928
FORT A.P. HILL/PHASE I	BOWLING GREEN VA	20,791
ENVIROSAFE SERVICES OF OHIO	OREGON OH	3,286
ENVIROSAFE CELL H CLOSURE	OREGON OH	21,515
KIM-STAN LANDFILL	SELMA VA	2,521
COUNTY OF SPOTSYLVANIA	FREDERICKSBURG VA	155,765
ENVIRITE CORP LIVINGSTON LF	PONTIAC IL	29,493
US CERAMICS CAP PHASE III	EAST SPARTA, OH	5,590
MILLERSVILLE LF CAP	SEVERN MD	362,792
GREEN VALLEY LANDFILL	ASHLAND KY	15,816
GLASGOW CITY LF EXP	GLASGOW KY	106,157



GSE Lining Technology, Inc.

RESUME

19103 Gundle Road
Houston, Texas 77073
800-435-2008
713-443-8564
Fax: 713-875-6010

NAME : Kongchay Chanthachone

POSITION : Technician

EXPERIENCE : Has been employed by Gundle Lining Construction Corp. since 01/11/88 and has worked on the following projects :

PROJECT	LOCATION	SQ FT
CIBA GEIGY	MCINTOSH AL	16,250
IMC FERTILIZER GYPSUM EXP.	MULBERRY FL	228,942
FENSKE LANDFILL II ON I	GRAND RAPIDS MI	130,617
RICHFIELD LANDFILL	DAVISON MI	121
RIVERVIEW LAND PRESERVE	RIVERVIEW MI	115,856
MENOMINEE UNITED WASTE CAP	MENOMINEE MI	54,362
BFI KERRVILLE	KERRVILLE TX	205,500
ALCOA POND 3	ROCKDALE TX	19,035
SOUTHERN PACIFIC TRANSPORTATIO	HOUSTON TX	4,642
MAGMA COPPER N E PAD EXP	San Manoel AZ	66,238
GRASSY MTN WASTE CELL 3	KNOLLS UT	11,560
USPCI CELL 5	KNOLLS UT	37,953
TOWN OF BABYLON/INTERIM ASH LF	Wyandanch NY	20,144
CHARLES GEORGE LANDFILL	Tynsboro MA	4,900
TOWN OF NORTH HEMPSTEAD L-5	Port Washington NY	
TEXAS EASTMAN	LOGVIEW TX	143,649
HARDY TOLL ROAD	HOUSTON TX	400,000
REGAN ENGINEERING	CRANSTON RI	90,000
CITY OF NACOGDOCHES	NACOGDOCHES TX	23,605
SHELL ROCKY MNTN. ARSENAL	DENVER CO	80,000
DOW ENGINEERING	PLAQUEMINE LA	3,500
MODERN LANDFILL	YORK PA	13,500
ENVIRITE CORPORATION	HARVEY IL	7,000
SONSTEGARD FOODS	GAINESVILLE GA	20,000
BROWARD COUNTY LANDFILL	FT. LAUDERDALE FL	45,000
CITY OF BREMEN	BREMEN GA	118,000
NORTH HEMPSTEAD	PORT WASHINGTON NY	93,000
GULF COAST LANDFILL	FT. MYERS FL	75,000
CITY OF BABYLON	BABYLON NY	22,000
FREY FARM	LANCASTER PA	89,500
OCEAN COUNTY	LAKE HURST NJ	145,000
AIR PRODUCTS	ST. GABRIEL LA	35,665
PIG IMPROVEMENT	HENNESSEY OR	147,107

Total Sq Ft

6,470,808



GSE Lining Technology, Inc.

RESUME

19103 Gundle Road
Houston, Texas 77073
800-435-2008
713-443-8564
Fax: 713-875-6010

NAME : April Lawn

POSITION : Technician

EXPERIENCE : Has been employed by Gundle Lining Construction Corp. since 05/12/93 and has worked on the following projects :

PROJECT	LOCATION	SQ FT
SANDERS TANK	TROY AL	1,870
KOCH FUEL TERMINALS	AUSTIN TX	972
NEW BEDFORD LANDFILL	DARTMOUTH MA	935,805
BLYDENBURG CLOSURE	HAUPPAUGE NY	322,314
BIDDEFORD CAP	BIDDEFORD ME	110,327
MASS MILITARY RESERVAT CLOSURE	CAPE COD MA	2,685,478
FRESHKILLS CAP AREA 3/4	STATEN ISLAND NY	60,668
PELHAM BAY CLOSURE	BRONX NY	575,369
NORTH SEA CLOSURE	SOUTHAMPTON NY	89,016
BABYLON ASH CELL 1A	W. BABYLON NY	4,997
AL TURI CAP 4,5,6 AND 7	GOSHEN NY	2,135
BFI MARYLAND OAKS ASH CELL	LAYTONSVILLE MD	300
BRANDYWINE SEDIMENT POND	BRANDYWINE MD	55,150
CITY OF NEWPORT NEWS LF EXP.	NEWPORT NEWS VA	61,692
FOX POINT STATE PARK CAP	WILMINGTON DE	132,452
LOUDEN COUNTY LF EXP	LEESBURG VA	3,510
K&W LANDFILL	ONTONOGAN MI	264,525
SILVER STATE DISPOSAL/APEX LF	LAS VEGAS NV	8,888

Total Sq Ft | 5,315,468 |



GSE Lining Technology, Inc.

RESUME

19103 Gundle Road
Houston, Texas 77073
800-435-2008
713-443-8564
Fax: 713-875-6010

NAME : Krongkeo Luangraj

POSITION : Technician

EXPERIENCE : Has been employed by Gundle Lining Construction Corp. since 07/22/87 and has worked on the following projects :

PROJECT	LOCATION	SQ FT
-----	-----	-----
ELLERY LF PH 3 STAGE 2	GERRY NY	17,013
RODMAN LANDFILL	RODMAN NY	8,535
ERVING PAPER WASTE WATER	ERVING MA	3,176
BLYDENBURG CLOSURE	HAUPPAUGE NY	276,615
BFI NIAGARA	NIAGARA FALLS NY	3,990
BIDDEFORD CAP	BIDDEFORD ME	93,727
MASS MILITARY RESERVAT CLOSURE	CAPE COD MA	1,658,387
NORTH SEA CLOSURE	SOUTHAMPTON NY	53,142
BABYLON ASH CELL 1A	W. BABYLON NY	4,997
AL TURI CAP 4,5,6 AND 7	GOSHEN NY	2,135
POTTSTOWN CELL 6	POTTSTOWN PA	44,611
AMERICAN CYANAMID/BOUND BROOK	BOUND BROOK NJ	47,587
OCEAN COUNTY CELL 4	LAKEHURST NJ	2,411
TULLEYTOWN CELL 9	TULLYTOWN PA	215,039
LANCASTER REFUSE AUTH	COLUMBIA PA	163,002
LONGNECK SANITARY DIST	GEORGETOWN DE	9,554
BFI IMPERIAL	IMPERIAL PA	56,209
ARDEN LF	WASHINGTON PA	384,877
MONROEVILLE LANDFILL	MONROEVILLE PA	263,369
ARDEN LANDFILL	WASHINGTON PA	59,443
CHAMBERS ARDEN LANDFILL	WASHINGTON PA	174,285
YORK COUNTY LANDFILL CAP	STEWARTSTOWN PA	10,928
FREY FARM LANDFILL CELL 3	CONESTOGA PA	424,927
DEEP VALLEY CELL 1 & LEACHATE	OAKDALE PA	7,920
DELAWARE SOLID WASTE AUTHORITY	SANDTOWN, DE	54,249
SOUTHERN ALLEGHENIES	HOLLSOPPLE PA	88,069
SHOOSMITH BROS LF	CHESTER VA	26,984
GREEN VALLEY LANDFILL	ASHLAND KY	50,613
WILAMETTE INDUSTRIES	HAWESVILLES KY	2,763
CAROLINA FOOD PROCESSORS POND	TAR HEEL NC	11,603
CITRUS COUNTY LANDFILL	LANCANTOR FL	42,190
N DADE COUNTY LANDFILL	MIAMI FL	131,088
BEE RIDGE LF PHASE 1 & 2 CAP	SARASOTA FL	466,382
IMC FERTILIZER GYPSUM EXP.	MULBERRY FL	1,521
LEON COUNTY LANDFILL PHASE IIC	TALLAHASSEE FL	124,369
ARBOR HILLS EXP CELL 1	NORTHVILLE MI	46,546
MERCER COUNTY/KENTUCKY UTILITY	ELGIN KY	93,024
CITY OF LUBBOCK	LUBBOCK TX	17,850
STANDARD IND	SAN ANTONIO TX	2,110

For environmental lining solutions . . . the world comes to GSE™.

A Gundle/SLT Environmental, Inc. Company



GSE Lining Technology, Inc.

RESUME

19103 Gundle Road
Houston, Texas 77073
800-435-2008
713-443-8564
Fax: 713-875-6010

NAME : Krongkeo Luangraj

POSITION : Technician

EXPERIENCE : Has been employed by Gundle Lining Construction Corp. since 07/22/87 and has worked on the following projects :

PROJECT	LOCATION	SQ FT
FINLEY BUTTES LF SC 3 PH 1	BORMAN OR	1,149
MAGMA COPPER N E PAD EXP	San Manoel AZ	66,238
EAST CARBON COUNTY LANDFILL	EAST CARBON UT	13,129
LEPRINO FOODS CO.	ROSWELL NM	20,000
BARRICK GOLD STRIKE	CARLIN NV	17,365
LARNACA SEWAGE TREATMENT	LARNACA NA	21,932
MURUNTAU PROJECT	UZBEKISTAN NA	7,914,611
COEUR-ROCHESTER PH II	LOVELOCK NV	46,975
VALLEY SANITATION PH 1 AND II	IRWIN PA	14,079
OCEAN COUNTY LANDFILL	Lakehurst NJ	65,900
ORLEANS SANITARY LANDFILL	Albion NY	
KEYSTONE LANDFILL CELL 1,2,3	DUNMORE PA	30,637
CUMBERLAND LANDFILL	MILLVILLE NJ	24,511
MODERN LANDFILL	YORK PA	13,500
RAND MINING	RANDBURG CA	85,700
CECOS	WILLIAMSBURG OH	32,375
WAYNE DISPOSAL	VAN BUREN MI	63,775
SIGNAL RESCO	DAVIES FL	132,500
SEVEN MILE CREEK	EAU CLAIRE WI	35,000
NSP	MAPLE GROVE MN	42,000
ORLEANS COUNTY LANDFILL	ALBION NY	72,000
BROWARD COUNTY LANDFILL	FT. LAUDERDALE FL	120,000
CECOS	LIVINGSTON LA	65,000

Total Sq Ft

14,148,741



GSE Lining Technology, Inc.

RESUME

19103 Gundle Road
Houston, Texas 77073
800-435-2008
713-443-8564
Fax: 713-875-6010

NAME : Junpen Moolkhom

POSITION : Technician

EXPERIENCE : Has been employed by Gundle Lining Construction Corp. since 06/23/93 and has worked on the following projects :

PROJECT	LOCATION	SQ FT
RHODE ISLAND LANDFILL	JOHNSTON RI	1,059,781
AL TURI LANDFILL COVER PHASE 2	GOSHEN NY	104,739
LAIDLAW PLAINVILLE EXPANSION	PLAINVILLE MA	31,380
BFI CHICOPEE PHASE IV CAP	CHICOPEE MA	32,458
MASS MILITARY RESERVAT CLOSURE	CAPE COD MA	3,440,505
BABYLON CLOSURE	WEST BABYLON NY	27,284
PELHAM BAY CLOSURE	BRONX NY	523,087
BURRILVILLE LANDFILL CAP	BURRILLVILLE RI	800,347
KEYSTONE LANDFILL	DUNMORE PA	85,442
VALLEY SANITATION IB CELL 7	IRWIN PA	51,467
EDGEBORO/MIDDLESEX PHASE II	EAST BRUNSWICK NJ	28,002
NORTHERN TIER FIELD 5	TROY PA	8,142
GHENT GENERATING STATION	GHENT KY	625,533
CORTEZ GOLD MINES	BEOWAWE NV	35,000
BARRICK EXPANSION	CARLIN NV	565,902

Total Sq Ft	7,419,069



GSE Lining Technology, Inc.

RESUME

19103 Gundle Road
Houston, Texas 77073
800-435-2008
713-443-8564
Fax: 713-875-6010

NAME : Khamphouiha Ounkeo

POSITION : Technician

EXPERIENCE : Has been employed by Gundle Lining Construction Corp. since 06/18/92 and has worked on the following projects :

PROJECT	LOCATION	SQ FT
-----	-----	-----
CENTRAL CLINTON CNTY WWTP	MCELHATTEN PA	177,985
MALLIMCKRODT MEDICAL LINER	ST. LOUIS MO	341
ASHLAND CHEMICAL FOUNDATION	ST LOUIS MO	752
PASCO METER STATION	PASCO WA	3,591
SEQUOIA PACIFIC SYSTEMS	EXETER CA	8,067
SAN LUIS CANAL	LOS BANOS CA	21,980
901 TOWER TANK LINING	LOS ANGELES CA	1,085
EQUINOX RESOURCES PONDS	LOVELOCK NV	3,000
AL TURI LANDFILL COVER PHASE 2	GOSHEN NY	790,190
NORTH PROVIDENCE CLOSURE	NORTH PROVIDENC RI	542,540
BIDDEFORD CAP	BIDDEFORD ME	257,970
BABYLON CLOSURE	WEST BABYLON NY	42,090
PELHAM BAY CLOSURE	BRONX NY	523,087
AL TURI CAP 4,5,6 AND 7	GOSHEN NY	304,124
BURRILLVILLE LANDFILL CAP	BURRILLVILLE RI	216,014
MILES LABORATORIES CAP	HALEDON NJ	939,926
BFI MARYLAND OAKS ASH CELL	LAYTONSVILLE MD	40,939
ROSE DISPOSAL BLACKFOOT LF	WINSLOWE IN	70,909
DEKRYGER WASTE LAGOON	ST ANNE IL	30,800
CITY OF WARSAW WWT	WARSAW VA	45,517
KERR MCGEE IRON OXIDE POND	THEODORE AL	444
CITIZENS DISPOSAL PHASE II	GRAND BLANC MI	41,419
TAYMOUTH LANDFILL CELL E	BIRCH RUN MI	56,122
BURNSVILLE LF PHASE 2	BURNSVILLE MN	51,787
DAKHUE FINAL COVER	NEW TRIER MN	126,084
MT SOLO LANDFILL	LONGVIEW WA	102,475
HELENA MUNICIPAL LANDFILL	HELENA MT	40,342
KENNECOTT LARGE SLIME RESV.	BINGHAM CANYON UT	3,561
USPCI CELL 6	GRASSY MOUNTAIN UT	333
MARICOPA REFINERY	MARICOPA AZ	2,925
KENNECOTT CORP	BINGHAM CANYON UT	122,846
BALTIC LEACH RAND MINING	RANDBURG CA	104,632
BARRICK EXPANSION	CARLIN NV	77,459
BUTTE COUNTY/NEIL ROAD	CHICO CA	35,109
KIRBY CANYON LF CELL 2 & 5	MORGAN HILL CA	107,282

Total Sq Ft

4,893,727



GSE Lining Technology, Inc.

RESUME

19103 Gundle Road
Houston, Texas 77073
800-435-2008
713-443-8564
Fax: 713-875-6010

NAME : Vanh Sayaphokha

POSITION : Technician

EXPERIENCE : Has been employed by Gundle Lining Construction Corp. since 08/04/90 and has worked on the following projects :

PROJECT	LOCATION	SQ FT
-----	-----	-----
CENTRAL CLINTON CNTY WWTP	MCELHATTEN PA	177,985
HOLLY POINT RECREATION WWTP	WAKE FOREST NC	2,997
GUILFORD MILLS COLOR REDUCTION	GREENSBORO NC	2,645
KNOUSE FOODS INWOOD PROJECT	INWOOD WV	4,331
ATOCHEM INCINERATER	CALVERT CITY KY	430
HF CONCRETE REHAB	CALVERT CITY KY	115
ESCAMBIA WOOD PRESERVING	BRUNSWICK GA	35,322
FLORENCE COUNTY DISTRICT #6	EFFINGHAM SC	2,813
UNIVERSITY OF GEORGIA FUEL	ATHENS GA	2,046
AL TURI LANDFILL COVER PHASE 2	GOSHEN NY	790,190
RESCO SAUGUS LANDFILL CAP	SAUGUS MA	10,952
NORTH PROVIDENCE CLOSURE	NORTH PROVIDENC RI	542,540
SOUTH QUARRY PHASE II AND III	PLAINVILLE MA	4,390
OAK BLUFFS CAP	OAK BLUFFS MA	11,664
BIDDEFORD CAP	BIDDEFORD ME	257,970
AL TURI TEMPORARY FINAL COVER	GOSHEN NY	12,683
FRESHKILLS CAP AREA 3/4	STATEN ISLAND NY	1,162,441
BABYLON CLOSURE	WEST BABYLON NY	42,090
AL TURI CAP 4,5,6 AND 7	GOSHEN NY	338,437
BURRILVILLE LANDFILL CAP	BURRILLVILLE RI	141,823
OCEAN COUNTY LANDFILL CAP	LAKEHURST NJ	46,181
MILES LABORATORIES CAP	HALEDON NJ	939,926
KELLY RUN SANITATION	ELIZABETH PA	271,606
WB INDUSTRIES	VINTONDALE PA	14,559
VALLEY LF MID AMERICAN PH 1A	IRWIN PA	141,642
HENRICO COUNTY LF CAP	RICHMOND VA	2,940
CITY OF WARSAW WWT	WARSAW VA	45,517
CAROLINA FOOD PROCESSORS POND	TAR HEEL NC	80,344
SEVIER COUNTY LF	SEVIERVILLE TN	10,136
GHENT GENERATING STATION	GHENT KY	10,730
ALCOA SOUTH PLANT RECLOSURE	ALCOA TN	32,132
N DADE COUNTY LANDFILL	MIAMI FL	32,663
LAND RECLAMATION	RACINE WI	25,113
WAYNE DISPOSAL CELL D	BELLEVILLE MI	27,387
CITIZENS DISPOSAL PHASE II	GRAND BLANC MI	2,909
ENVIRITE LF	PONTIAC IL	46,997
MERCER COUNTY/KENTUCKY UTILITY	ELGIN KY	14,798
NSP CAP #1 SCRUBBER POND	BECKER MN	141,907
VICKSBURG CHEMICAL	VICKSBURG MS	



GSE Lining Technology, Inc.

RESUME

19103 Gundle Road
Houston, Texas 77073
800-435-2008
713-443-8564
Fax: 713-875-6010

NAME : Vanh Sayaphokha

POSITION : Technician

EXPERIENCE : Has been employed by Gundle Lining Construction Corp. since 08/04/90 and has worked on the following projects :

PROJECT	LOCATION	SQ FT
-----	-----	-----
USPCI	WAYNOKA OK	17,241
CITGO PETROLEUM CORP	LAKE CHARLES LA	15,321
DUPONT RAW 5 CAP	VICTORIA TX	54,023
AMOCO OIL CO SURGE BASIN #1	TEXAS CITY TX	61,018
PORT ANGELES LANDFILL	PORT ANGELES WA	5,576
OLSON NEIHART TAILINGS	PARK CITY UT	49,563
EAST CARBON LANDFILL PHASE II	EAST CARBON UT	23,767
NEWMONT MINING #2, #5 PHASE I	CARLIN NV	64,479
NEWMONT GOLD SOUTH LEACH PAD	CARLIN NV	6,823
PUU PULEHU RESERVOIR	Waimea, Hawaii HI	138,300
Total Sq Ft		5,904,956



GSE Lining Technology, Inc.

RESUME

19103 Gundle Road
Houston, Texas 77073
800-435-2008
713-443-8564
Fax: 713-875-6010

NAME : Christine Soundara

POSITION : Technician

EXPERIENCE : Has been employed by Gundle Lining Construction Corp. since 01/28/91 and has worked on the following projects :

PROJECT	LOCATION	SQ FT
-----	-----	-----
MOBIL OIL CORP BASIN LINER	WOODHAVEN MI	7,806
CITY OF FOSTORIA WWTP	FOSTORIA OH	2,779
ASHLAND CHEMICAL FOUNDATION	ST LOUIS MO	380
CHAMPION INTERNATIONAL LF P 2	PHILADELPHIA NY	43,577
BFI FALL RIVER A1, A2, B	FALL RIVER MA	113,360
110 SAND PHASE VI	MELVILLE NY	89,335
NORTH PROVIDENCE CLOSURE	NORTH PROVIDENC RI	39,600
BFI NIAGARA	NIAGARA FALLS NY	10,251
FRESHKILLS CAP AREA 3/4	STATEN ISLAND NY	1,324,380
OLIVER STREET LF CAP PHASE II	EAST HAMPTON MA	8,600
PELHAM BAY CLOSURE	BRONX NY	55,396
BFI IMPERIAL	IMPERIAL PA	50,858
WB INDUSTRIES	VINTONDALE PA	71,259
JAMES RIVER PHASE II PAPER MILL	MILFORD NJ	21,123
CHAMBERS ARDEN LANDFILL	WASHINGTON PA	46,563
YORK COUNTY LANDFILL CAP	STEWARTSTOWN PA	42,216
OCEAN COUNTY LANDFILL	LAKEHURST NJ	2,657
NORTHERN TIER FIELD 5	TROY PA	6,686
BFI MORGANTOWN	MORGANTOWN PA	295,507
FORESTLAWN LANDFILL CLOSURE	CLEARFIELD PA	34,166
BFI GREENTREE CELL E2-B	KERSEY PA	29,573
HENRICO COUNTY LF CAP	RICHMOND VA	150,134
HOECHST CELANESE CORP	NARROWS, VA	309,370
LTV STEEL LANDFILL CAP	CLEVELAND OH	36,401
CARROLL COUNTY LF EXPANSION	HILLSVILLE VA	3,502
ENVIROSAFE CELL M PHASE 2	OREGON OH	46,046
NORTH WAKE COUNTY LANDFILL	RALEIGH NC	421,064
LEON COUNTY LANDFILL PHASE IIC	TALLAHASSEE FL	55,220
CITY OF SARALAND	SARALAND AL	30,985
KERR MCGEE IRON OXIDE POND	THEODORE AL	21,148
AMOCO REFINERY CELL CAP	WOODRIVER, IL	250,761
WAYNE DISPOSAL CELL D	BELLEVILLE MI	19,164
CAHOKIA ROAD LANDFILL EXPANSIO	ROXANNA IL	626,138
BRICK YARD DISPOSAL	DANVILLE IL	203,169
DELTA SOLID WASTE AUTHORITY	ESCANABA MI	46,621
ARKONA ROAD LANDFILL	MILAN MI	1,427,148
HOOPESTON LANDFILL	HOOPESTON IL	87,141
INTERNATIONAL PAPER	JOPLIN MO	14,636
COAL CREEK PONDS 92 & 94	UNDERWOOD ND	9,962



GSE Lining Technology, Inc.

RESUME

NAME : Christine Soundara

POSITION : Technician

EXPERIENCE : Has been employed by Gundle Lining Construction Corp. since 01/28/91 and has worked on the following projects :

19103 Gundle Road
Houston, Texas 77073
800-435-2008
713-443-8564
Fax: 713-875-6010

PROJECT	LOCATION	SQ FT
JACKSONVILLE Laidlaw	JACKSONVILLE TX	20,710
Laidlaw Cell #4 Section C	TYLER TX	3,691
BFI FM 521	FRESNO TX	30,168
HELENA MUNICIPAL LANDFILL	HELENA MT	36,336
SF PHOSPHATES Gypsum Exp	ROCK SPRINGS WY	2,084
Kennecott Large Slime Resv.	BINGHAM CANYON UT	24,374
USPCI Cell 5	KNOLLS UT	34,165
DENVER Laidlaw Landfill	DENVER, CO	102,489
CRIPPLE CREEK MINE	VICTOR CO	6,000
NEWMONT Gold South Leach Pad	CARLIN NV	6,823
Baltic Leach Rand Mining	RANDBURG CA	24,686
Total Sq Ft		6,356,382



GSE Lining Technology, Inc.

RESUME

NAME : Keooudone Soundara

POSITION : Technician

EXPERIENCE : Has been employed by Gundle Lining Construction Corp. since 02/19/87 and has worked on the following projects :

19103 Gundle Road
Houston, Texas 77073
800-435-2008
713-443-8564
Fax: 713-875-6010

PROJECT	LOCATION	SQ FT
PYRAMID CAROUSEL MALL	SYRACUSE NY	58,475
MOBIL OIL CORP BASIN LINER	WOODHAVEN MI	7,806
CCAFS SECONDARY CONTAINMENT	KENNEDY SPACE C FL	756
ITT RAYONIER ASB WALL	FERNANDIANA BEA FL	
UPPER DESCHUTES RIVER BASIN	BEND, OR	2,700
CHAMPION INTERNATIONAL LF P 2	PHILADELPHIA NY	43,577
BFI FALL RIVER A1, A2, B	FALL RIVER MA	113,360
110 SAND PHASE VI	MELVILLE NY	89,335
FRESHKILLS CAP AREA 3/4	STATEN ISLAND NY	1,324,380
JOSEPH J. BRUNNER, INC.	ZELIENOPLE PA	57,370
TULLEYTOWN CELL 9	TULLYTOWN PA	34,064
HARRISBURG FACILITY	HARRISBURG PA	28,570
BFI IMPERIAL	IMPERIAL PA	50,858
WB INDUSTRIES	VINTONDALE PA	134,858
JAMES RIVER PHASE II PAPER MILL	MILFORD NJ	21,123
CHAMBERS ARDEN LANDFILL	WASHINGTON PA	46,563
YORK COUNTY LANDFILL CAP	STEWARTSTOWN PA	42,216
OCEAN COUNTY LANDFILL	LAKEHURST NJ	2,657
CLARION COUNTY LANDFILL PAD 1C	LEEPER PA	9,737
NORTHERN TIER FIELD 5	TROY PA	6,686
BFI MORGANTOWN	MORGANTOWN PA	99,159
FORESTLAWN LANDFILL CLOSURE	CLEARFIELD PA	34,166
BFI GREENTREE CELL E2-B	KERSEY PA	29,573
BFI MORGANTOWN	MORGENTOWN PA	14,872
WISE COUNTY LF PH. 1 & 2	BLACKWOOD VA	95,146
CHAMPION PAPER LANDFILL	MILLVILLE OH	15,416
FIRST PIEDMONT CORP	RINGOLD VA	5,160
HENRICO COUNTY LF CAP	RICHMOND VA	358,823
HOECHST CELANESE CORP	NARROWS, VA	309,370
LTV STEEL LANDFILL CAP	CLEVELAND OH	36,401
PITTSYLVANIA COUNTY LF EXP	CHATHAM VA	4,745
GEORGIA PACIFIC LANDFILL CAP	BIG ISLAND VA	62,448
NORTH WAKE COUNTY LANDFILL	RALEIGH NC	421,064
PASCO COUNTY LF CLASS III & I	SPRINGHILL FL	56,524
GULF COAST LANDFILL	FT. MYERS FL	79,168
FORT MEADE	FORT MEADE FL	2,871
LEON COUNTY LANDFILL PHASE IIC	TALLAHASSEE FL	55,220
CITY OF SARALAND	SARALAND AL	30,985
AMOCO REFINERY CELL CAP	WOODRIVER, IL	250,761



GSE Lining Technology, Inc.

RESUME

NAME : Keooudone Soundara

POSITION : Technician

EXPERIENCE : Has been employed by Gundle Lining Construction Corp. since 02/19/87 and has worked on the following projects :

19103 Gundle Road
Houston, Texas 77073
800-435-2008
713-443-8564
Fax: 713-875-6010

PROJECT	LOCATION	SQ FT
CAHOKIA ROAD LANDFILL EXPANSIO	ROXANNA IL	626,138
TROY LANDFILL CAP	EAST TROY WI	54,501
BRICK YARD DISPOSAL	DANVILLE IL	203,169
DELTA SOLID WASTE AUTHORITY	ESCANABA MI	46,621
ARKONA ROAD LANDFILL	MILAN MI	1,427,148
HOOPESTON LANDFILL	HOOPESTON IL	87,141
INTERNATIONAL PAPER	JOPLIN MO	14,636
PHILLIPS PETRO	Old Ocean TX	20,104
BP CHEMCIALS	Port Lavaca TX	5,773
HOECHST CELANESE LANDFILL CAP	BISHOP TX	10,999
LAIDLAW CELL #4 SECTION C	TYLER TX	3,691
BFI FM 521	FRESNO TX	30,168
RYAN LODGE HEAP LEACH	FAIRBANKS AK	81,253
ARLINGTON LANDFILL L - 8 CAP	ARLINGTON OR	10,019
BLACK PINE PROJECT	SNOWVILLE UT	7,623
CYPRUS MIAMI MINING CORP.	CLAYPOOL AZ	407
GRASSY MTN WASTE CELL 3	KNOLLS UT	15,901
KENNECOTT LARGE SLIME RESV.	BINGHAM CANYON UT	24,374
USPCI CELL 5	KNOLLS UT	34,165
DENVER LAIDLAW LANDFILL	DENVER, CO	102,489
LEPRINO FOODS CO.	ROSWELL NM	8,000
TIMET CO. LIQUID CONTAINMENT	HENDERSON NV	50,266
WIND MTN MINE PHASE II	FERNLEY NV	143,849
MCCLAUGHLIN MINE	LOWERLAKE CA	13,750
NEWMONT GOLD SOUTH LEACH PAD	CARLIN NV	6,823
BALTIC LEACH RAND MINING	RANDBURG CA	112,432
LARNACA SEWAGE TREATMENT	LARNACA NA	213,290
BRADLEY LF WEST SIDESLOPE	Sun Valley CA	73,228
KERR MCGEE CHEMICAL	Henderson NV	10,800
AZUSA LAND REC CO	AZUSA CA	69,184
VALLEY SANITATION PH 1 AND II	IRWIN PA	8,448
KEYSTONE LANDFILL CELL 1,2,3	DUNMORE PA	12,927
FREY FARM LEACHATE PLANT	Lancaster PA	57,562
HELEVA LANDFILL SUPERFUND SITE	ORMROD PA	322,231
PINELLAS COUNTY NW WWT	PALM HARBOR FL	38,071
CHOCOLATE BAYOU PLANT	Alvin TX	12,177
MCCOURTNEY RD. LANDFILL	GRASS VALLEY CA	13,785
ALLIED MATERIALS	STROUD OK	350,000
TUGCO	TATUM TX	173,176

For environmental lining solutions... the world comes to GSE™.

A Gundle/SIT Environmental, Inc. Company



GSE Lining Technology, Inc.

RESUME

19103 Gundle Road
Houston, Texas 77073
800-435-2008
713-443-8564
Fax: 713-875-6010

NAME : Keooudone Soundara

POSITION : Technician

EXPERIENCE : Has been employed by Gundle Lining Construction Corp. since 02/19/87 and has worked on the following projects :

PROJECT	LOCATION	SQ FT
-----	-----	-----
SANTA ROSA LANDFILL	HOLLY FL	43,114
PHILLIPS	SWEENEY TX	260,000
CHEMICAL WASTE MANAGEMENT	LAKE CHARLES LA	83,000
CAVENHAM	SALISAW OK	34,851
CITY OF BROOKHAVEN	BROOKHAVEN NY	77,000
B.F. GOODRICH	LaPORTE TX	24,000
DOW CHEMICAL	LaPORTE TX	68,500
PIMA COUNTY	TUCSON AZ	35,000
TOSCO AVON REFINERY	MARTINEZ CA	21,000
WASTE MANAGEMENT	POTTSTOWN PA	93,500
SEVEN MILE CREEK	EAU CLAIR WI	26,500

Total Sq Ft

9,426,115



GSE Lining Technology, Inc.

RESUME

19103 Gundle Road
Houston, Texas 77073
800-435-2008
713-443-8564
Fax: 713-875-6010

NAME : Bounnio Southammavong

POSITION : Technician

EXPERIENCE : Has been employed by Gundle Lining Construction Corp. since 05/08/92 and has worked on the following projects :

PROJECT	LOCATION	SQ FT
-----	-----	-----
MOBIL OIL CORP CAP	RIVERSIDE RI	36,140
PLUM ISLAND WWTP	ORIENT POINT NY	13,492
TAYLOR PACKING ANEROBIC LAGOON	WYALUSING PA	124,414
WEXNER ESTATES POND LINER	NEW ALBANY OH	39,962
WEST PENN POWER CO.	NEW ALEXANDRIA PA	25,120
WESTERLY WWTC PHASE I	CLEVELAND OH	16,291
EM SCIENCE POND LINER	CINCINATI OH	14,527
CYTEC TANK LINER	BELMOUNT WV	21,867
MALLINCKRODT TANK LINER	RALEIGH NC	197
HOLLY POINT RECREATION WWTP	WAKE FOREST NC	2,997
PPG EMERGENCY HOLDING POND	SHELBY NC	30,793
KNOUSE FOODS INWOOD PROJECT	INWOOD WV	37,857
TOYOTA GEORGETOWN FUEL	GEORGETOWN KY	2,618
MERDIAN OIL DRYING BED	TUSCALOOSA AL	16,280
CCAFS SECONDARY CONTAINMENT	KENNEDY SPACE C FL	3,193
TEMPORARY STOCKPILE	JACKSONVILLE FL	73,920
FLORENCE COUNTY DISTRICT #6	EFFINGHAM SC	2,813
ROCHE CAROLINA STORM BASIN	FLORENCE SC	102,545
GATX SECONDARY CONTAINMENT	ARGO IL	32
UNION ELECTRIC FLOOD CONTROL	ST CHARLES MO	15,174
BFI COLONIAL LANDFILL	SORRENTO LA	23,545
RODMAN LANDFILL	RODMAN NY	225,302
BFI CHICOPEE PHASE IV CAP	CHICOPEE MA	454,412
NANTICOKE CLOSURE	BINGHAMPTON NY	18,739
WHEELABRATOR SHREWBURY CAP	MILLBURY MA	8,378
AL TURI TEMPORARY FINAL COVER	GOSHEN NY	12,683
MASSACHUSETTS DPW TUNNEL CAP	BOSTON MA	42,972
BFI MARYLAND OAKS ASH CELL	LAYTONSVILLE MD	3,824
BFI IMPERIAL	IMPERIAL PA	1,828
BFI OAKS LANDFILL	LAYTONSVILLE MD	34,789
RCC CAIRNBROOK CELL A2	CAIRNBROOK PA	6,582
BRANDYWINE SEDIMENT POND	BRANDYWINE MD	55,150
FIRST PIEDMONT REMEDIATION	CHANTHAM VA	20,343
LOUDON CO LF EXPANSION	LEESBURG VA	3,741
AMELIA COUNTY LANDFILL	AMELIA COUNTY VA	33,783
FOX POINT STATE PARK CAP	WILMINGTON DE	205,115
CARROLL COUNTY LF EXPANSION	HILLSVILLE VA	50,842
ROSE DISPOSAL BLACKFOOT LF	WINSLOWE IN	157,210
SMITHFIELD CARROL FOODS LAGOON	WAKEFIELD VA	99,514



GSE Lining Technology, Inc.

RESUME

NAME : Bounnio Southammavong

POSITION : Technician

EXPERIENCE : Has been employed by Gundle Lining Construction Corp. since 05/08/92 and has worked on the following projects :

19103 Gundle Road
Houston, Texas 77073
800-435-2008
713-443-8564
Fax: 713-875-6010

PROJECT	LOCATION	SQ FT
-----	-----	-----
GHENT GENERATING STATION	GHENT KY	46,359
ALCOA SOUTH PLANT RECLOSURE	ALCOA TN	10,665
DEANS BRIDGE ROAD MUNICIPAL LF	HEPHZIBAH GA	321,890
K&W LANDFILL	ONTONOGAN MI	264,525
HECHIMOVICH LANDFILL	HORICON WI	12,558
RICHMOND SANITARY LANDFILL IV	REED CITY MI	91,903
ALLIED WASTE SHOW ME	WARRENSBURG MO	28,809
KERR MCGEE	HAMILTON MS	759,606
JOHNSON CO. LF	ALVARADO TX	342,263
AGRICO CHEMCIAL	ST JAMES LA	269,214
CALAVERAS LAKE PIT CLASS I	SAN ANTONIO TX	5,571
WESTERN WASTE NEW BOSTON #3	NEW BOSTON TX	24,199
RIVERBEND LF CAP	MC MINNVILLE OR	53,394
COFFIN BUTTE LF CELL 2B	CORVALLIS OR	5,444
FORT HALL CANYON LANDFILL	POCATELLO ID	9,135
EAST CARBON LANDFILL PHASE II	EAST CARBON UT	23,767
BUTTE COUNTY/NEIL ROAD	CHICO CA	4,740

Total Sq Ft

4,329,643



GSE Lining Technology, Inc.

R E S U M E

19103 Gundle Road
Houston, Texas 77073
800-435-2008
713-443-8564
Fax: 713-875-6010

NAME : Sithat Southammavong

POSITION : Technician

EXPERIENCE : Has been employed by Gundle Lining Construction Corp. since 07/10/93 and has worked on the following projects :

PROJECT	LOCATION	SQ FT
MOBIL OIL CORP CAP	RIVERSIDE RI	36,140
PLUM ISLAND WWTP	ORIENT POINT NY	13,492
TAYLOR PACKING ANEROBIC LAGOON	WYALUSING PA	124,414
WEXNER ESTATES POND LINER	NEW ALBANY OH	39,962
WEST PENN POWER CO.	NEW ALEXANDRIA PA	25,120
WESTERLY WWTC PHASE I	CLEVELAND OH	16,291
EM SCIENCE POND LINER	CINCINATI OH	14,527
CYTEC TANK LINER	BELMOUNT WV	21,867
HOLLY POINT RECREATION WWTP	WAKE FOREST NC	2,997
PPG EMERGENCY HOLDING POND	SHELBY NC	30,793
KNOUSE FOODS INWOOD PROJECT	INWOOD WV	37,857
TOYOTA GEORGETOWN FUEL	GEORGETOWN KY	2,618
CCAFS SECONDARY CONTAINMENT	KENNEDY SPACE C FL	3,193
TEMPORARY STOCKPILE	JACKSONVILLE FL	73,920
FLORENCE COUNTY DISTRICT #6	EFFINGHAM SC	2,813
ROCHE CAROLINA STORM BASIN	FLORENCE SC	102,545
NATIONAL STARCH AND CHEMICAL	MEREDOSIA IL	1,254
UNION ELECTRIC FLOOD CONTROL	ST CHARLES MO	15,174
BFI COLONIAL LANDFILL	SORRENTO LA	23,545
BFI CHICOPEE PHASE IV CAP	CHICOPEE MA	454,412
BFI MARYLAND OAKS ASH CELL	LAYTONSVILLE MD	3,824
BRANDYWINE SEDIMENT POND	BRANDYWINE MD	55,150
FIRST PIEDMONT REMEDATION	CHANTHAM VA	20,343
FOX POINT STATE PARK CAP	WILMINGTON DE	205,115
ROSE DISPOSAL BLACKFOOT LF	WINSLOWE IN	157,210
SMITHFIELD CARROL FOODS LAGOON	WAKEFIELD VA	99,514
SEVIER COUNTY LF	SEVIERVILLE TN	16,617
GHENT GENERATING STATION	GHENT KY	46,359
ALCOA SOUTH PLANT RECLOSURE	ALCOA TN	10,665
K&W LANDFILL	ONTONOGAN MI	264,525
RICHMOND SANITARY LANDFILL IV	REED CITY MI	91,903
ALLIED WASTE SHOW ME	WARRENSBURG MO	28,809
KERR MCGEE	HAMILTON MS	759,606
WESTERN WASTE NEW BOSTON #3	NEW BOSTON TX	24,199
EAST CARBON LANDFILL PHASE II	EAST CARBON UT	23,767
EAST CARBON CELL 7C & 7D	EAST CARBON UT	16,871

Total Sq Ft

2,867,411



GSE Lining Technology, Inc.

RESUME

NAME : Thongkham Thammavongsa

POSITION : Technician

EXPERIENCE : Has been employed by Gundle Lining Construction Corp. since 08/23/88 and has worked on the following projects :

19103 Gundle Road
Houston, Texas 77073
800-435-2008
713-443-8564
Fax: 713-875-6010

PROJECT	LOCATION	SQ FT
-----	-----	-----
POLAROID FUEL OIL TANK	NEW BEDFORD MA	593
LILCO POND LINER	LONG ISLAND NY	10,262
TREASURE COAST CITRUS	FT PIERCE FL	79,460
ASHLAND CHEMICAL PAD LINERS	GARLAND TX	51
SHELL LONGBEACH BARRIER	LONG BEACH CA	20
RHODE ISLAND LANDFILL	JOHNSTON RI	1,059,781
AL TURI LANDFILL COVER PHASE 2	GOSHEN NY	104,739
LAIDLAW PLAINVILLE EXPANSION	PLAINVILLE MA	31,380
GE WATERFORD LANDFILL	WATERFORD NY	1,706
HATCH HILL EXPANSION	AUGUSTA ME	71,264
MASS MILITARY RESERVAT CLOSURE	CAPE COD MA	3,440,505
PELHAM BAY CLOSURE	BRONX NY	523,087
BURRILVILLE LANDFILL CAP	BURRILLVILLE RI	800,347
ARUNDEL CLOSURE	ARUNDEL ME	23,231
PENNSAUKEN SANITARY LF PHASE I	PENNSAUKEN NJ	11,880
OAKS LANDFILL	LAYTONSVILLE MD	32,863
WB INDUSTRIES	VINTONDALE PA	25,770
ARDEN LF	WASHINGTON PA	276,633
ENVIRITE CLARION	LEEPER PA	1,165
MONROEVILLE LANDFILL	MONROEVILLE PA	55,297
DELAWARE SOLID WASTE AUTHORITY	SANDTOWN, DE	180,158
SECCRA LANDFILL PHASE II	WEST GROVE PA	139,999
VALLEY SANITATION IB CELL 7	IRWIN PA	51,467
EDGEBORO/MIDDLESEX PHASE II	EAST BRUNSWICK NJ	44,313
NORTHERN TIER FIELD 5	TROY PA	8,142
WISE COUNTY LF PH. 1 & 2	BLACKWOOD VA	30,978
CITY OF ALBERMARLE	NEW LONDON NC	67,749
L-TECH LANDFILL CLOSURE	ASHTABULA OH	80,397
COUNTY OF SPOTSYLVANIA	FREDERICKSBURG VA	18,000
OHIO EDISON REHABILITATION	TORONTO OH	62,433
BEAR ISLAND PAPER LF	ASHLAND VA	12,603
BFI OAKS LANDFILL MSW4	LAYTONSVILLE MD	3,016
HARRISBURG ROAD LANDFILL	CHARLOTTE NC	17,969
EXPERIMENTAL FISH POND	OCEAN SPRINGS MS	1,070
FORD BRANCH LF/PIKE COUNTY	META KY	8,536
GHENT GENERATING STATION	GHENT KY	239,304
ARBOR HILLS EXP CELL 1	NORTHVILLE MI	15,985
EAU CLAIRE CNTY LF PHASE II	EAU CLAIRE WI	52,064
CITIZENS DISPOSAL LF PHASE I	GRAND BLANC MI	45,968

R E S U M E

Cont.

NAME : Thongkham Thammavongsa

POSITION : Technician

EXPERIENCE : Has been employed by Gundle Lining Construction Corp. since 08/23/88 and has worked on the following projects :

PROJECT	LOCATION	SQ FT
-----	-----	-----
HILL CITY WWTP	HILL CITY MN	71,075
FERRET NE PONDS	CRAWFORD NE	52,903
CITY OF FARGO LANDFILL	FARGO ND	67,704
WELDON SPRINGS STORAGE	ST. CHARLES MO	40,927
DAKHUE FINAL COVER	NEW TRIER MN	60,624
J C ELLIOTT LF SEC 3 & 4	CORPUS CHRISTI TX	755,392
WEYERHAEUSER PAPER CAP	ENUMCLAW WA	56,619
BATTLE MOUNTAIN GOLD	SAN LUIS CO	47,499
USPCI CELL 5	KNOLLS UT	34,165
UNION OIL CO POND	PARACHUTE CO	21,624
NEWMONT MINING #2, #5 PHASE I	CARLIN NV	134,582
SANTA YNEZ EXPANSION	GOLETA CA	5,135
BONZI LANDFILL	MODESTO CA	38,646
NEWMONT GOLD SOUTH LEACH PAD	CARLIN NV	326,529
BARRICK GOLDSTRIKE PHASE III	CARLIN NV	47,274
BARRICK EXPANSION	CARLIN NV	565,902
CALABASAS LANDFILL	AGOURA Hills CA	63,780
USPCI	KNOLLS, UT	
PALM BEACH COUNTY AUTH.	W. Palm Beach FL	47,049
PINELLAS COUNTY NW WWT	PALM HARBOR FL	14,805
CIBA GEIGY 44	MCINTOSH AL	57,226
N FULTON COUNTY LANDFILL	Pinewood SC	55,124
ALLIED MATERIALS	Stroud OK	101,040
STANDARD INDUSTRIES	SAN ANTONIO TX	7,545
CONCORD SOLID WASTE	PENACOOK NH	27,000
HURON COUNTY LANDFILL	NORWALK OH	41,500
WASTE MANAGEMENT	TULLYTOWN PA	135,000

Total Sq Ft

10,561,416



GSE Lining Technology, Inc.

RESUME

19103 Gundie Road
Houston, Texas 77073
800-435-2008
713-443-8564
Fax: 713-875-6010

NAME : Nghia Tran

POSITION : Technician

EXPERIENCE : Has been employed by Gundie Lining Construction Corp. since 06/23/92 and has worked on the following projects :

PROJECT	LOCATION	SQ FT
POLAROID FUEL OIL TANK	NEW BEDFORD MA	3,192
LILCO POND LINER	LONG ISLAND NY	17,720
CAROLINA STALITE FOUNDATION	GOLD HILL NC	687
GALEY & LORD BECK SLAB LINER	SOCIETY HILL SC	930
DEGUSSA OXIDATION DITCH	THEODORE AL	19
GREAT SOUTHERN WOOD PRESERVING	IRVINGTON AL	13,172
MORTON INTERNATIONAL LANDFILL	MOSS POINT MS	11,012
BFI CHICOPEE PHASE IV CAP	CHICOPEE MA	454,412
MASS MILITARY RESERVAT CLOSURE	CAPE COD MA	3,285,321
PELHAM BAY CLOSURE	BRONX NY	100,485
FRESHKILLS CLOSURE AREA 2/8	STATEN ISLAND NY	239,314
VALLEY LF MID AMERICAN PH 1A	IRWIN PA	13,105
BFI GREENTREE LF/E3 E2A E1A	KERSEY PA	6,222
KELLY RUN FINAL CLOSURE	ELIZABETH PA	59,246
PELLEGRENE CAP #9746-17	HOMER CITY PA	19,051
CHESTER COUNTY CAP PHASE 3	HONEY BROOK PA	105,309
CHAMBERS/ARDEN	WASHINGTON PA	72,113
MONROEVILLE	MONROEVILLE PA	73,229
BFI MORGANTOWN	MORGANTOWN PA	1,111,591
BFI GREENTREE CELL E2-B	KERSEY PA	242,060
BFI MORGANTOWN	MORGENTOWN PA	1,304,659
RESERVE ENVIRONMENTAL LANDFILL	ASHTABULA OH	23,583
US STEEL MINEWATER POND LINING	PINEVILLE WV	10,656
TRAILFORK US STEEL	BROWNS GREEK WV	13,147
CITY OF WARSAW WWT	WARSAW VA	17,000
FRANKLIN COUNTY LF	GROVE CITY OH	25,214
NORTH PALM BEACH COUNTY PH II	W. PALM BEACH FL	14,628
DAUBS LANDFILL	FAIRFIELD IL	136,889
CITIZENS DISPOSAL PHASE II	GRAND BLANC MI	4,877
ENVIRITE LF	PONTIAC IL	86,687
KERR MCGEE	HAMILTON MS	2,006,467
BFI FM 521	FRESNO TX	63,962
LEPRINO FOODS CO.	ROSWELL NM	45,100
SWIRE BFI LANDFILL	HONG KONG NA	33,927

Total Sq Ft

9,614,986



GSE Lining Technology, Inc.

RESUME

19103 Gundle Road
Houston, Texas 77073
800-435-2008
713-443-8564
Fax: 713-875-6010

NAME : Mik Sivongsay

POSITION : Trainee

EXPERIENCE : Has been employed by Gundle Lining Construction Corp. since 07/24/95 and has worked on the following projects :

PROJECT	LOCATION	SQ FT
BFI CHICOPEE PHASE IV CAP	CHICOPEE MA	110,344
KEYSTONE LF CAP	DUNMORE PA	42,808
Total Sq Ft		153,152



GSE Lining Technology, Inc.

RESUME

19103 Gundle Road
Houston, Texas 77073
800-435-2008
713-443-8564
Fax: 713-875-6010

NAME : Khamphone Sihavong

POSITION : Trainee

EXPERIENCE : Has been employed by Gundle Lining Construction Corp. since 07/12/94 and has worked on the following projects :

PROJECT	LOCATION	SQ FT
TAYLOR PACKING ANEROBIC LAGOON	WYALUSING PA	2,841
TAMPA ELEC. POLK POWER RINGWALL	MULBERRY FL	9,900
FRESHKILLS CAP AREA 3/4	STATEN ISLAND NY	1,324,380
TOWN OF LUDLOW	LUDLOW MA	127,401
BFI MARYLAND OAKS ASH CELL	LAYTONSVILLE MD	28,358
SARASOTA COUNTY LANDFILL CAP	SARASOTA FL	1,228,415
MARION COUNTY PHASE III EXP	OCALA FL	127,330
EMERALD PARK LANDFILL	MUSKEGO WI	485,289
HOOPESTON LANDFILL	HOOPESTON IL	64,126
MARATHON COUNTY LANDFILL	RINGLE WI	173,755
BFI KERRVILLE	KERRVILLE TX	205,500
CRIPPLE CREEK MINE	VICTOR CO	41,543
PIG IMPROVEMENT	HENNESSEY OR	147,107

Total Sq Ft

3,965,945



GSE Lining Technology, Inc.

RESUME

19103 Gundie Road
Houston, Texas 77073
800-435-2008
713-443-8564
Fax: 713-875-6010

NAME : Viengxay Keophovangphet

POSITION : Trainee

EXPERIENCE : Has been employed by Gundie Lining Construction Corp. since 09/04/90 and has worked on the following projects :

PROJECT	LOCATION	SQ FT
CHEM WASTE LF CLOSURE # 12	MODEL CITY NY	35,090
BFI CHICOPEE PHASE IV CAP	CHICOPEE MA	215,790
TOWN OF ISLIP LF LEVEL C & D	ISLIP NY	7,532
BROOKHAVEN LANDFILL & CAP	BROOKHAVEN NY	3,003
HATCH HILL EXPANSION	AUGUSTA ME	43,742
GREATER LEBANON REFUSE AUTH	LEBANON PA	321,272
WESTERN BERKS AUTHORITY	BIRDSBORO PA	22,597
WESTMORELAND COUNTY	MONESSEN PA	44,093
MONROEVILLE LANDFILL	MONROEVILLE PA	91,389
PINE GROVE LANDFILL PAD 2	PINE GROVE PA	211,668
RUSHVILLE WWTP	RUSHVILLE OH	65,295
CITY OF COLUMBUS	COLUMBUS IN	30,116
ENVIRITE CORP LIVINGSTON LF	PONTIAC IL	1,694
SHOOSMITH BROS LF	CHESTER VA	31,149
PITTSYLVANIA COUNTY LF EXP	CHATHAM VA	248,685
ROCKY RIVER WWTP	ANDERSON SC	7,582
BFI ARBOR HILLS CELL 1D	NORTHVILLE MI	16,066
BFI MADISON PRAIRIE LANDFILL	SUN PRAIRIE WI	26,755
KERR MCGEE	HAMILTON MS	759,606
STANDARD IND	SAN ANTONIO TX	51,079

Total Sq Ft

2,234,203

APPENDIX M

MATERIAL INVENTORY LOGS



GEOSYNTEC CONSULTANTS



TOWN OF HUNTINGTON

MATERIAL INVENTORY

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK

PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE

DATE: _____ day _____ month 95 year

PRODUCT TYPE: ENKANET 4215

MANUFACTURER: AKZO NOBEL

INVENTORY DATE (day/mo)	BATCH / ROLL NO.	Q.A. CONFORMANCE			Q.C. DOCUMENTS			QA ID
		DATE SAMPLED (day/mo)	SAMPLE NO.	PASS/FAIL	DATE RECEIVED (day/mo)	DATE CHECKED (day/mo)	PASS/FAIL	
23/3	0000 / 41214551							
	41214552							
	41214553							
	41214554				23/3	8/7		
	41214556							
	41214557							
	41214558							
	41214559				23/3	8/7		
	41214560							
	41214561	5/APRIL	GN-1					
24/34	50420901	24/April	GN-2					
	50420902							
	50420903							
	50420904							
	50420905							
	50420906							
	50420907							
	50420908							
	50420901				24/4	8/7		
	50421902							

AVG. ROLL WIDTH: 6.5'

AVG. ROLL LENGTH: 320'

NUMBER OF ROLLS ABOVE: 20

ACCUMULATIVE NUMBER OF ROLLS: 20

CUMULATIVE AREA: 41600ft²

TOTAL NUMBER OF CONFORMANCE TESTS: 2



GEO SYNTEC CONSULTANTS



TOWN OF HUNTINGTON

MATERIAL INVENTORY

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 25 day 04 month 95 year

PRODUCT TYPE: Enka net 4215 MANUFACTURER: AKZO Nobel

INVENTORY DATE (day/mo)	BATCH / ROLL NO.	Q.A. CONFORMANCE			Q.C. DOCUMENTS			QA ID
		DATE SAMPLED (day/mo)	SAMPLE NO.	PASS/FAIL	DATE RECEIVED (day/mo)	DATE CHECKED (day/mo)	PASS/FAIL	
25/4 ↓	50421903							m1
	50421904							m1
	50423901							m2
	50423902							m2
	50423903							m2
	50423904							m2
	50423905							m2
	50423906							m2
	50423907							m2
	50423908							m2
	50423909							m2
	50423910							m2
	50423911	25/4	GN-3					m2
	50423912							m2
	50423913				4/5	4/5	P	m2
1/5 ↓	50424901							m2
	* 50424902	Returned to AKZO			8/5	8/5	P	m2
	50424903				8/5	8/5	P	m2
	50424904				8/5	8/5	P	m2
	50424905				8/5	8/5	P	m2
	50426901							m2
	50426902							m2
	50426903							m2
	50426904							m2

AVG. ROLL WIDTH: 6.5' AVG. ROLL LENGTH: 320'

NUMBER OF ROLLS ABOVE: 24 ACCUMULATIVE NUMBER OF ROLLS: 44

CUMULATIVE AREA: 91520 FT² TOTAL NUMBER OF CONFORMANCE TESTS: 3



GEOSYNTEC CONSULTANTS



TOWN OF HUNTINGTON

MATERIAL INVENTORY

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK

PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF
LANDFILL CLOSURE

DATE: 01 day 05 month 95 year

PRODUCT TYPE: Enkanet 4215

MANUFACTURER: AKZO Nobel

INVENTORY DATE (day/mo)	BATCH / ROLL NO.	Q.A. CONFORMANCE			Q.C. DOCUMENTS			QA ID
		DATE SAMPLED (day/mo)	SAMPLE NO.	PASS/ FAIL	DATE RECEIVED (day/mo)	DATE CHECKED (day/mo)	PASS/ FAIL	
1/5	50426905							m2
	50426906							m2
	50426907							m3
	50426908							m3
	50426909							m3
	50426910				8/5	8/5	P	m3
	50427901							m2
	50427902	returned To manufacturer			8/5		P	m3
	50427903							m2
	50427904							m2
	50427905							m2
	50427907							m3
	50427908							m2
	50427909	returned To manufacturer						m2
	50427910	returned To manufacturer						m2
	50427911	returned to manufacturer						m1
	50427912							m2
	50427914	returned To manufacturer						m2
	50427915				8/5	8/5	P	m2
	50427916							m2
	* 7 rolls	returned To manufacturer on May 11/95						

AVG. ROLL WIDTH: 6.5 AVG. ROLL LENGTH: 320'

NUMBER OF ROLLS ABOVE: 15 ACCUMULATIVE NUMBER OF ROLLS: 59

CUMULATIVE AREA: 122720 FT² TOTAL NUMBER OF CONFORMANCE TESTS: 3



GEO SYNTEC CONSULTANTS



TOWN OF HUNTINGTON

MATERIAL INVENTORY

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK

PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF
LANDFILL CLOSURE

DATE: 10 day 05 month 95 year

PRODUCT TYPE: Enkanet 4215

MANUFACTURER: AKZO Nobel

INVENTORY DATE (day/mo)	BATCH / ROLL NO.	Q.A. CONFORMANCE			Q.C. DOCUMENTS			QA ID
		DATE SAMPLED (day/mo)	SAMPLE NO.	PASS/ FAIL	DATE RECEIVED (day/mo)	DATE CHECKED (day/mo)	PASS/ FAIL	
Man. #: 50505009 ↓	50501901				8/5	8/5	P	m2
	50501902							m2
	50501904							m2
	50501905				8/5	8/5	P	m2
	50501906							m2
	50502901							m2
	50502903							m2
	50503901				8/5	8/5	P	m2
	50503902							m2
	50503903							m2
	50504901							m2
	50504902				8/5	8/5	P	m2
	50504903							m2
	50504905							m2
	50504907	returned to manufacturer						m2
	50504908							m2
	50504909							m2
	50505901							m2
	50505902				8/5	8/5	P	m2
	50505903							m2
	50505904	returned to manufacturer						m2
	50505906							m2
	50505905							m2
	50505907							m2
	50502902							m2

AVG. ROLL WIDTH: 6.5' AVG. ROLL LENGTH: 320'

NUMBER OF ROLLS ABOVE: 23 ACCUMULATIVE NUMBER OF ROLLS: 82

CUMULATIVE AREA: 170560 FT² TOTAL NUMBER OF CONFORMANCE TESTS: 3



GEO SYNTEC CONSULTANTS



TOWN OF HUNTINGTON

MATERIAL INVENTORY

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK

PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE

DATE: 11 day 5 month 95 year

PRODUCT TYPE: AKZO ^{NET} geocomposite MANUFACTURER: AKZO

INVENTORY DATE (day/mo)	BATCH / ROLL NO.	Q.A. CONFORMANCE			Q.C. DOCUMENTS			QA ID
		DATE SAMPLED (day/mo)	SAMPLE NO.	PASS/ FAIL	DATE RECEIVED (day/mo)	DATE CHECKED (day/mo)	PASS/ FAIL	
Mass #: 50510004	11/5	50507901			11/5	15/5	P	m2
		50507904						
		50507906						
		50507907						
		50507908						
		50508903						
		50508906						
		50508910						
		50508911			12/5	15/5	P	m2
		50508912						
		50509901						
		50509902			11/5	15/5	P	m2
		50509903						
		50509904						
		50509905						
		50509906			11/5	15/5	P	m2
		50509907						
		50509908						
		50509909						
		50509910						
		50509911						
		50509912						
		50509913						
		50509914			11/5	15/5	P	m2
		50509915						

AVG. ROLL WIDTH: 78" AVG. ROLL LENGTH: 350' 320'

NUMBER OF ROLLS ABOVE: 25 ACCUMULATIVE NUMBER OF ROLLS: 107

CUMULATIVE AREA: 222560 FT² TOTAL NUMBER OF CONFORMANCE TESTS: 3



GEO SYNTEC CONSULTANTS



TOWN OF HUNTINGTON

MATERIAL INVENTORY

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK

PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE

DATE: 11 day 5 month 95 year

PRODUCT TYPE: Geocomposite

MANUFACTURER: AKZO

INVENTORY DATE (day/mo)	BATCH / ROLL NO.	Q.A. CONFORMANCE			Q.C. DOCUMENTS			QA ID
		DATE SAMPLED (day/mo)	SAMPLE NO.	PASS/FAIL	DATE RECEIVED (day/mo)	DATE CHECKED (day/mo)	PASS/FAIL	
11/5	50509916							m2
	50509917							m2
	50509918							m2
	50510901							m2
15/5	50507903							m2
	50507905							m2
	50508904							m2
	50508905				12/5	15/5	P	m2
	50508907							m2
	50508908							m2
	50508909							m2
	50510902				11/5	15/5	P	m2
	50510903							m2
	50510904				11/5	15/5	P	m2
	50510905	19/5	GN-4					m2
	50510906							m2
	50510907							m2
	50510908							m2
	50510909							m2
	50510910							m2
	50510911							m2
	50510912				11/5	15/5	P	m2
	50511902							m2
	50511903				12/5	15/5	P	m2

AVG. ROLL WIDTH: 6.5' AVG. ROLL LENGTH: 350' 320'

NUMBER OF ROLLS ABOVE: 24 ACCUMULATIVE NUMBER OF ROLLS: 131

CUMULATIVE AREA: 272480 Ft² TOTAL NUMBER OF CONFORMANCE TESTS: 4



GEO SYNTEC CONSULTANTS



TOWN OF HUNTINGTON

MATERIAL INVENTORY

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK

PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE

DATE: 15 day 5 month 95 year

PRODUCT TYPE: Geo composite

MANUFACTURER: AKZO NOBLE

INVENTORY DATE (day/mo)	BATCH / ROLL NO.	Q.A. CONFORMANCE			Q.C. DOCUMENTS			QA ID
		DATE SAMPLED (day/mo)	SAMPLE NO.	PASS/ FAIL	DATE RECEIVED (day/mo)	DATE CHECKED (day/mo)	PASS/ FAIL	
15/5	50511904							MS
	50511905							MS
	50511906							MS
	50511908							MS
	50511910							MS
	50511911							MS
	50511912							MS
	50511913				12/5	15/5	P	MS
	50511914							MS
17/5	50511915							MS
	50512908							GD
	50512909							GD
	50512905							GD
	50512906							GD
	50512902				15/5	15/5	P	GD
	50512901							GD
	50512903							GD
	50512907							GD
	50512904							GD
	50512910							GD
	50514908							GD
	50514909				15/5	15/5	P	GD
	50514907							GD
	50514904							GD

Man. #:
50515003

AVG. ROLL WIDTH: 6.5' AVG. ROLL LENGTH: 320'

NUMBER OF ROLLS ABOVE: 24 ACCUMULATIVE NUMBER OF ROLLS: 155

CUMULATIVE AREA: 322,400 Ft² TOTAL NUMBER OF CONFORMANCE TESTS: 4



GEOSYNTEC CONSULTANTS



TOWN OF HUNTINGTON

MATERIAL INVENTORY

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILLLOCATION: SUFFOLK COUNTY, NEW YORKPROJECT NO: GQ3700 TASK NO.: 01DESCRIPTION: CONSTRUCTION OF
LANDFILL CLOSUREDATE: 17 day 5 month 1995 yearPRODUCT TYPE: GeocompositeMANUFACTURER: AKZO Noble

INVENTORY DATE (day/mo)	BATCH / ROLL NO.	Q.A. CONFORMANCE			Q.C. DOCUMENTS			QA ID
		DATE SAMPLED (day/mo)	SAMPLE NO.	PASS/ FAIL	DATE RECEIVED (day/mo)	DATE CHECKED (day/mo)	PASS/ FAIL	
17/5 ↓	50514903							GD
	50514901							GD
	50514906							GD
	50511909							GD
	50512910							GD
	50511901							GD
	50512914							GD
	50512913							GD
	50512911							GD
	50511907							GD
	50512912							GD
	50513904							GD
	50513906							GD
	50513907							GD
	50513905							GD
	50513902							GD
19/5 ↓	50515902				24/5	24/5	P	GD
	50515903							GD
	50515904							GD
	50515905							GD
	50515906							GD
	50515907							GD
	50515908							GD
	50515911							GD

Man. #:
50517009AVG. ROLL WIDTH: 6.5 AVG. ROLL LENGTH: 320'NUMBER OF ROLLS ABOVE: 24 ACCUMULATIVE NUMBER OF ROLLS: 179CUMULATIVE AREA: 372320 FT² TOTAL NUMBER OF CONFORMANCE TESTS: 4



GEOSYNTEC CONSULTANTS



TOWN OF HUNTINGTON

MATERIAL INVENTORY

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK

PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF
LANDFILL CLOSURE

DATE: 19 day May month 1995 year

PRODUCT TYPE: GeoComposite

MANUFACTURER: AKZO Noble

INVENTORY DATE (day/mo)	BATCH / ROLL NO.	Q.A. CONFORMANCE			Q.C. DOCUMENTS			QA ID
		DATE SAMPLED (day/mo)	SAMPLE NO.	PASS/ FAIL	DATE RECEIVED (day/mo)	DATE CHECKED (day/mo)	PASS/ FAIL	
19/5	50515912							GD
	50515913							GD
	50515914				24/5	24/5	P	GD
	50515915							GD
	50515916							GD
	50515917				24/5	24/5	P	GD
	50516901				24/5	24/5	P	GD
	50516902							GD
	50516903							GD
	50516904				24/5	24/5	P	GD
	50516905							GD
	50516906							GD
	50516907							GD
	50516908							GD
	50516909							GD
	50516910							GD
	50516911							GD
	50516912							GD
	50516913							GD
	50517901							GD
	50517902				22/5	22/5	P	GD
	50517905				22/5	22/5	P	GD

AVG. ROLL WIDTH: 6.5

AVG. ROLL LENGTH: 320'

NUMBER OF ROLLS ABOVE: 22

ACCUMULATIVE NUMBER OF ROLLS: 201

CUMULATIVE AREA: 418080 FT²

TOTAL NUMBER OF CONFORMANCE TESTS: 4



GEO SYNTEC CONSULTANTS



TOWN OF HUNTINGTON

MATERIAL INVENTORY

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK

PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE

DATE: 24 day 5 month 95 year

PRODUCT TYPE: Geocomposite

MANUFACTURER: AKZO Nable

INVENTORY DATE (day/mo)	BATCH / ROLL NO.	Q.A. CONFORMANCE			Q.C. DOCUMENTS			QA ID
		DATE SAMPLED (day/mo)	SAMPLE NO.	PASS/FAIL	DATE RECEIVED (day/mo)	DATE CHECKED (day/mo)	PASS/FAIL	
Month: 50522004	24/5	50517907			22/5	22/5	P	M2
		50517908			22/5	22/5	P	M2
		50517909			22/5	22/5	P	M2
		50517910						M2
		50517911						M2
		50518906						M2
		50518907						M2
		50518908						M2
		50518909						M2
		50518912						M2
		50518913						M2
		50518915						M2
		50519902						M2
		50519904			22/5	22/5	P	M2
		50519909						M2
		50519910			24/5	24/5	P	M2
		50519911						M2
		50520901						M2
		50520902						M2
		50520903						M2
		50520904			22/5	22/5	P	M2
		50520905						M2
		50520906						M2
		50520908			22/5	22/5	P	M2
		50520907						M2

AVG. ROLL WIDTH: 6.5' AVG. ROLL LENGTH: 320'

NUMBER OF ROLLS ABOVE: 25 ACCUMULATIVE NUMBER OF ROLLS: 226

CUMULATIVE AREA: 470080 Ft² TOTAL NUMBER OF CONFORMANCE TESTS: 4



GEO SYNTEC CONSULTANTS



TOWN OF HUNTINGTON

MATERIAL INVENTORY

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILLLOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 24 day 5 month 95 yearPRODUCT TYPE: Geocomposite MANUFACTURER: AKZO, Noble

INVENTORY DATE (day/mo)	BATCH / ROLL NO.	Q.A. CONFORMANCE			Q.C. DOCUMENTS			QA ID
		DATE SAMPLED (day/mo)	SAMPLE NO.	PASS/ FAIL	DATE RECEIVED (day/mo)	DATE CHECKED (day/mo)	PASS/ FAIL	
24/5 ↓	50520910							m2
	50520911							m2
	50521903							m2
	50521904				22/5	22/5	P	m2
	50521905							m2
Man #: 50523007 25/5 ↓	50517912				24/5	24/5	P	m2
	5051919							m2
	50518903							m2
	50518904							m2
	50518905							m2
	50518911							m2
	50519901				24/5	24/5	P	m2
	50519905							m2
	50519906				24/5	24/5	P	m2
	50519912							m2
	50519913							m2
	50519914				24/5	24/5	P	m2
	50520909							m2
	50521907							m2
	50522902				24/5	24/5	P	m2
	50522903							m2
	50522904							m2
	50522905							m2
	50522906							m2

AVG. ROLL WIDTH: 6.5' AVG. ROLL LENGTH: 320'NUMBER OF ROLLS ABOVE: 24 ACCUMULATIVE NUMBER OF ROLLS: 250CUMULATIVE AREA: 520000 FT² TOTAL NUMBER OF CONFORMANCE TESTS: 4



GEO SYNTEC CONSULTANTS



TOWN OF HUNTINGTON

MATERIAL INVENTORY

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK

PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF
LANDFILL CLOSURE

DATE: 25 day 5 month 95 year

PRODUCT TYPE: Geonet composite

MANUFACTURER: AKZO Nobel

INVENTORY DATE (day/mo)	BATCH / ROLL NO.	Q.A. CONFORMANCE			Q.C. DOCUMENTS			QA ID
		DATE SAMPLED (day/mo)	SAMPLE NO.	PASS/ FAIL	DATE RECEIVED (day/mo)	DATE CHECKED (day/mo)	PASS/ FAIL	
25/5 ↓	50522908							m2
	50522910							m2
	50522911							m2
	50522912							m2
	50522913				24/5	24/5	P	m2
	50522914							m2
	50522915							m2
	50523902							m2
	50523903							m2
	50523905							m2
Man. #: 50525006 30/5 ↓	50519907							m2
	50519908							m2
	50521902							m2
	50521906							m2
	50522907							m2
	50523907							m2
	50523908							m2
	50523909				26/5	26/5	P	m2
	50523910							m2
	50523911							m2
	50523912							m2
	50523913				26/5	26/5	P	m2
	50523914							m2

AVG. ROLL WIDTH: 6.5' AVG. ROLL LENGTH: 320'

NUMBER OF ROLLS ABOVE: 24 ACCUMULATIVE NUMBER OF ROLLS: 274

CUMULATIVE AREA: 569920 FT² TOTAL NUMBER OF CONFORMANCE TESTS: 4



GEO SYNTec CONSULTANTS



TOWN OF HUNTINGTON

MATERIAL INVENTORY

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILLLOCATION: SUFFOLK COUNTY, NEW YORKPROJECT NO.: GQ3700 TASK NO.: 01DESCRIPTION: CONSTRUCTION OF
LANDFILL CLOSUREDATE: 30 day 05 month 95 yearPRODUCT TYPE: Geonet composite MANUFACTURER: AKZO Noble

INVENTORY DATE (day/mo)	BATCH / ROLL NO.	Q.A. CONFORMANCE			Q.C. DOCUMENTS			QA ID
		DATE SAMPLED (day/mo)	SAMPLE NO.	PASS/ FAIL	DATE RECEIVED (day/mo)	DATE CHECKED (day/mo)	PASS/ FAIL	
30/5	50524901							da
	50524902				31/5	31/5	P	da
	50524903							da
	50524904							da
	50524906				31/5	31/5	P	da
	50524907							da
	50524908							da
	50524910							da
	50524911							da
	50524912							da
	50524913				31/5	31/5	P	da
	50524914							da
	50524915				31/5	31/5	P	da
	50524916							da
	50525901							da
1/6	50525902							da
	50525903							da
	50525906				31/5	31/5	P	m2
	50525907							m2
	50525908				31/5	31/5	P	m2
	50525912							m2
	50525913							m2
	50525914				31/5	31/5	P	m2
	50526901							m2

Man #: 50530001

AVG. ROLL WIDTH: 6.5' AVG. ROLL LENGTH: 320'NUMBER OF ROLLS ABOVE: 24 ACCUMULATIVE NUMBER OF ROLLS: 298CUMULATIVE AREA: 619840 FT² TOTAL NUMBER OF CONFORMANCE TESTS: 4



GEOSYNTEC CONSULTANTS



TOWN OF HUNTINGTON

MATERIAL INVENTORY

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILLLOCATION: SUFFOLK COUNTY, NEW YORKPROJECT NO: GQ3700 TASK NO.: 01DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSUREDATE: 01 day 06 month 95 yearPRODUCT TYPE: Geonet compositeMANUFACTURER: AKZO Noble

INVENTORY DATE (day/mo)	BATCH / ROLL NO.	Q.A. CONFORMANCE			Q.C. DOCUMENTS			QA ID
		DATE SAMPLED (day/mo)	SAMPLE NO.	PASS/ FAIL	DATE RECEIVED (day/mo)	DATE CHECKED (day/mo)	PASS/ FAIL	
1/6	50526903							mj
	50526905							mj
	50526908				31/5	31/5	P	mj
	50526909							mj
	50526910							mj
	50526911				31/5	31/5	P	mj
	50527901							mj
	50527902							mj
	50527903				31/5	31/5	P	mj
	50527904							mj
	50527905							mj
	50528904							mj
	50528905				31/5	31/5	P	mj
	50528906							mj
	50528907							mj
	50528908							mj
	* 50528909				31/5	31/5	P	* mj
	50528910							mj
	50529901							mj
	50529902				31/5	31/5	P	mj
	50529904							mj
	50529905							mj
	50529906				31/5	31/5	P	mj

AVG. ROLL WIDTH: 6.5' AVG. ROLL LENGTH: 320'NUMBER OF ROLLS ABOVE: 22 ACCUMULATIVE NUMBER OF ROLLS: 320CUMULATIVE AREA: 665,600 Ft² TOTAL NUMBER OF CONFORMANCE TESTS: 4



GEO SYNTEC CONSULTANTS



TOWN OF HUNTINGTON

MATERIAL INVENTORY

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK

PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE

DATE: 02 day 06 month 95 year

PRODUCT TYPE: Geonet Composite MANUFACTURER: AKZO Noble

INVENTORY DATE (day/mo)	BATCH / ROLL NO.	Q.A. CONFORMANCE			Q.C. DOCUMENTS			QA ID
		DATE SAMPLED (day/mo)	SAMPLE NO.	PASS/FAIL	DATE RECEIVED (day/mo)	DATE CHECKED (day/mo)	PASS/FAIL	
Man.#: 50531002 2/6	50525909							m2
	50525910				3/5	3/5	P	m2
	50525911							m2
	50525915							m2
	50526902							m2
	50526906				3/5	3/5	P	m2
	50526907				3/5	3/5	P	m2
	50527906							m2
	50528901							m2
	50528902				3/5	3/5	P	m2
	50528903							m2
	50528911							m2
	50528912							m2
	50528913				3/5	3/5	P	m2
	50528914							m2
	50529907							m2
	50529908				3/5	3/5	P	m2
	50530902							m2
	50530903				2/6	2/6	P	m2
	50530904							m2
	50530905							m2
	50530906							m2
	50530907							m2
	50530908				2/6	2/6	P	m2
	50530909							m2

AVG. ROLL WIDTH: 6.5' AVG. ROLL LENGTH: 320'

NUMBER OF ROLLS ABOVE: 25 ACCUMULATIVE NUMBER OF ROLLS: 345

CUMULATIVE AREA: 717,600 ft² TOTAL NUMBER OF CONFORMANCE TESTS: 4



GEO SYNTEC CONSULTANTS



TOWN OF HUNTINGTON

MATERIAL INVENTORY

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK

PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE

DATE: 02 day 06 month 95 year

PRODUCT TYPE: Geonet Composite

MANUFACTURER: AKZO Noble

INVENTORY DATE (day/mo)	BATCH / ROLL NO.	Q.A. CONFORMANCE			Q.C. DOCUMENTS			QA ID
		DATE SAMPLED (day/mo)	SAMPLE NO.	PASS/ FAIL	DATE RECEIVED (day/mo)	DATE CHECKED (day/mo)	PASS/ FAIL	
2/6 ↓	50530910							m2
	50530912				2/6	2/6	P	m2
	50530913							m2
	50530914							m2
	50530915				2/6	2/6	P	m2
5/6 ↓	50530916							m2
	50530917							m2
	50530918							m2
	60531901							m2
	50531902							m2
	50531903							m2
	50531904							m2
	50531905							m2
	50531906							m2
	50531907							m2
	50531908							m2
	50531909							m2
	50531910							m2
	50531911							m2
	50531912							m2
	50531913							m2
	50531914							m2
	50531915							m2
	50531917							m2

AVG. ROLL WIDTH: 6.5' AVG. ROLL LENGTH: 320'

NUMBER OF ROLLS ABOVE: 24 ACCUMULATIVE NUMBER OF ROLLS: 369

CUMULATIVE AREA: 167,520 Ft² TOTAL NUMBER OF CONFORMANCE TESTS: 4



GEO SYNTec CONSULTANTS



TOWN OF HUNTINGTON

MATERIAL INVENTORY

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK

PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF
LANDFILL CLOSURE

DATE: 05 day 06 month 95 year

PRODUCT TYPE: Geonet Composite MANUFACTURER: AKZO Noble

INVENTORY DATE (day/mo)	BATCH / ROLL NO.	Q.A. CONFORMANCE			Q.C. DOCUMENTS			QA ID
		DATE SAMPLED (day/mo)	SAMPLE NO.	PASS/ FAIL	DATE RECEIVED (day/mo)	DATE CHECKED (day/mo)	PASS/ FAIL	
5/6 ↓	50531918							m2
	50531919							m2
	50531920							m2
	50531921							m2
	50531922							m1
	50601902							m2
	50601903							m2
	50601905							m2
	50601906							m2
	50601907				13/6	13/6	P	m2
12/6 ↓	50601908							m2
	50601910							GD
	50601912							GD
	50601913							GD
	50601914							GD
	50607911							GD
	50607912							GD
	50607913							GD
	50607914							GD
	50607915							GD
	50607916							GD
	50607917							GD
	50607918							GD
	50608902							GD

AVG. ROLL WIDTH: 22.5' 6.5' AVG. ROLL LENGTH: 11' 300' 320'

NUMBER OF ROLLS ABOVE: 11 ACCUMULATIVE NUMBER OF ROLLS: 380

CUMULATIVE AREA: 790,400 FT² TOTAL NUMBER OF CONFORMANCE TESTS: 4



GEO SYNTEC CONSULTANTS



TOWN OF HUNTINGTON

MATERIAL INVENTORY

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK

PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE

DATE: 7 day June month 1995 year

PRODUCT TYPE: GeoComposite

MANUFACTURER: AKZO Nobel

INVENTORY DATE (day/mo)	BATCH / ROLL NO.	Q.A. CONFORMANCE			Q.C. DOCUMENTS			QA ID
		DATE SAMPLED (day/mo)	SAMPLE NO.	PASS/FAIL	DATE RECEIVED (day/mo)	DATE CHECKED (day/mo)	PASS/FAIL	
50606006 7/16 ↓	50602902	✓			16/6	16/6	P	GD
	50602904				16/6	16/6	P	
	50602905	✓			16/6	16/6	P	
	50602907	✓			16/6	16/6	P	
	50602909	✓			16/6	16/6	P	
	50602910	✓			16/6	16/6	P	
	50602911	✓			16/6	16/6	P	
	50602912	✓			16/6	16/6	P	
	50603901	✓			16/6	16/6	P	
	50603902							
	50603903							
	50603906				16/6	16/6	P	
	50604901							
	50604902				16/6	16/6	P	
	50604903							
	50605901							
	50605902							
	50605903	✓			16/6	16/6	P	
	50605904	✓			16/6	16/6	P	
	50605905							
	50605907	✓			16/6	16/6	P	
	50605909							
	50605910							
	50605911	✓			16/6	16/6	P	GD
	50605912							

AVG. ROLL WIDTH: 6 AVG. ROLL LENGTH: 322

NUMBER OF ROLLS ABOVE: 25 ACCUMULATIVE NUMBER OF ROLLS: 449

CUMULATIVE AREA: 842 400 TOTAL NUMBER OF CONFORMANCE TESTS: 4



GEO SYNTEC CONSULTANTS



TOWN OF HUNTINGTON

MATERIAL INVENTORY

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK

PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF
LANDFILL CLOSURE

DATE: 5 day 6 month 95 year

PRODUCT TYPE: DUKALITE 425

MANUFACTURER: AKZO NOBLE

INVENTORY DATE (day/mo)	BATCH / ROLL NO.	Q.A. CONFORMANCE			Q.C. DOCUMENTS			QA ID
		DATE SAMPLED (day/mo)	SAMPLE NO.	PASS/ FAIL	DATE RECEIVED (day/mo)	DATE CHECKED (day/mo)	PASS/ FAIL	
7/16	50605913							GD
	50605914				16/6	16/6	P	
	50606901							
	50606902							
	50606904							
5/16	50530916							
	50530917							
	50530918							
	50531901				2/6	2/6	P	
	50531902							
	50531903							
	50531904							
	50531905				2/6	2/6	P	
	50531906							
	50531908							
	50531909							
	50531910				2/6	2/6	P	
	50531911							
	50531912							
	50531913							
	50531914							
	50531915				2/6	2/6	P	
	50531916							GD

AVG. ROLL WIDTH: 6

AVG. ROLL LENGTH: 320

NUMBER OF ROLLS ABOVE: 5

ACCUMULATIVE NUMBER OF ROLLS: 443.41

CUMULATIVE AREA: 852,800 sq ft

TOTAL NUMBER OF CONFORMANCE TESTS: 4



GEOSYNTEC CONSULTANTS



TOWN OF HUNTINGTON

MATERIAL INVENTORY

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK

PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF
LANDFILL CLOSURE

DATE: 5 day 6 month 95 year

PRODUCT TYPE: ENKAMET 4215

MANUFACTURER: AKZO NOBLE

INVENTORY DATE (day/mo)	BATCH / ROLL NO.	Q.A. CONFORMANCE			Q.C. DOCUMENTS			QA ID
		DATE SAMPLED (day/mo)	SAMPLE NO.	PASS/ FAIL	DATE RECEIVED (day/mo)	DATE CHECKED (day/mo)	PASS/ FAIL	
5/6	50531917							GD
	50531918							
	50531919 ✓				2/6	2/6	P	
	50531920							
	50531921							
	50531922							
	50601902							
	50601903							
	50601905							
	50601906							
	50601907 ✓				2/6	2/6	P	
	50601908							
50609011 13/6	50601910							
	50601912							
	50601913							
	50601914 ✓				2/6	2/6	P	
	50607911 ✓				2/6	2/6	P	
	50607912							
	50607913							
	50607914							
	50607915							
	50607916							
	50607917							
	50607918							

AVG. ROLL WIDTH: 6 AVG. ROLL LENGTH: 320

NUMBER OF ROLLS ABOVE: 12 ACCUMULATIVE NUMBER OF ROLLS: 467

CUMULATIVE AREA: 877,760 ft^2 TOTAL NUMBER OF CONFORMANCE TESTS: 4



GEOSYNTEC CONSULTANTS



TOWN OF HUNTINGTON

MATERIAL INVENTORY

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILLLOCATION: SUFFOLK COUNTY, NEW YORKPROJECT NO.: GQ3700 TASK NO.: 01DESCRIPTION: CONSTRUCTION OF
LANDFILL CLOSUREDATE: 12 day 10 month 1995 yearPRODUCT TYPE: Geonet CompositeMANUFACTURER: Ekzo Noble

INVENTORY DATE (day/mo)	BATCH / ROLL NO.	Q.A. CONFORMANCE			Q.C. DOCUMENTS			QA ID
		DATE SAMPLED (day/mo)	SAMPLE NO.	PASS/ FAIL	DATE RECEIVED (day/mo)	DATE CHECKED (day/mo)	PASS/ FAIL	
12/10	50608903 ✓				2/6	2/6	P	GD
	50608904							GD
	50608905							GD
	50608906 ✓				2/6	2/6	P	GD
	50608907							GD
	50608908							GD
	50608909							GD
	50608913							GD
	50608914 ✓				2/6	2/6	P	GD
	50608915							GD
	50608916							GD
	50608917 ✓				2/6	2/6	P	GD
	50609901							GD
	50609902							GD
	50609903 ✓				2/6	2/6	P	GD
	50609904							GD
	50609905							GD
	50608902 ✓							GD
14/10	50609906 ✓							GD
	50609907							GD
	50609908							GD
	50609909							GD
	50609910 ✓							GD
	50609911							GD
	50609912							GD

VOID & ENTIRELY DUPLICATE (JE)

AVG. ROLL WIDTH: 6 AVG. ROLL LENGTH: 320NUMBER OF ROLLS ABOVE: 18 ACCUMULATIVE NUMBER OF ROLLS: 410CUMULATIVE AREA: 915,200 ft² TOTAL NUMBER OF CONFORMANCE TESTS: 4



GEOSYNTEC CONSULTANTS



TOWN OF HUNTINGTON

MATERIAL INVENTORY

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 13 day 6 month 95 year

PRODUCT TYPE: ENKAJET 4215 MANUFACTURER: AKZO NOBLE

INVENTORY DATE (day/mo)	BATCH / ROLL NO.	Q.A. CONFORMANCE			Q.C. DOCUMENTS			QA ID
		DATE SAMPLED (day/mo)	SAMPLE NO.	PASS/FAIL	DATE RECEIVED (day/mo)	DATE CHECKED (day/mo)	PASS/FAIL	
13/6	50608902							GO
	50608903							
	50608904							
	50608905							
	50608906							
	50608907							
	50608908							
	50608909							
	50608913							
	50608914							
	50608915							
	50608916							
	50608917							
	50609901							
	50609902							
	50609903							
	50609904							
	50609904							
	50609905							
15/6	50609912							
15/6	50609906				14/6	14/6	P	GO
	50609907							GO
	50609908							
	50609909							
	50609910				14/6	14/6	P	GO

AVG. ROLL WIDTH: 6 AVG. ROLL LENGTH: 320

NUMBER OF ROLLS ABOVE: 5 ACCUMULATIVE NUMBER OF ROLLS: 445

CUMULATIVE AREA: 925,600 ft² TOTAL NUMBER OF CONFORMANCE TESTS: 4



GEO SYNTEC CONSULTANTS



TOWN OF HUNTINGTON

MATERIAL INVENTORY

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK

PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF
LANDFILL CLOSURE

DATE: 15 day 6 month 95 year

PRODUCT TYPE: DUKALET 4215

MANUFACTURER: AKZO NOBLE

INVENTORY DATE (day/mo)	BATCH / ROLL NO.	Q.A. CONFORMANCE			Q.C. DOCUMENTS			QA ID
		DATE SAMPLED (day/mo)	SAMPLE NO.	PASS/ FAIL	DATE RECEIVED (day/mo)	DATE CHECKED (day/mo)	PASS/ FAIL	
15/6	50609911							60
	50609912							
	50609913							
	50609914							
	50609915							
	50609916							
	50609917							
	50609918							
	50609919							
	50609920							
	50609921							
	50610913							
	50610914							
	50610915							
	50611902							
	50611907							
	50611911							
	50611914							
	50611915							
	50611918							
	50611919							
	50611920							
	50612901							
	50612902							
	50612903							
	50612905							60

AVG. ROLL WIDTH: 6 AVG. ROLL LENGTH: 320

NUMBER OF ROLLS ABOVE: 26 ACCUMULATIVE NUMBER OF ROLLS: 471

CUMULATIVE AREA: 979,680 ft² TOTAL NUMBER OF CONFORMANCE TESTS: 4



GEOSYNTEC CONSULTANTS



TOWN OF HUNTINGTON

MATERIAL INVENTORY

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 14 day JUNE month 95 year

PRODUCT TYPE: ENKAJET 4215 MANUFACTURER: AK20 NOBIE

INVENTORY DATE (day/mo)	BATCH / ROLL NO.	Q.A. CONFORMANCE			Q.C. DOCUMENTS			QA ID
		DATE SAMPLED (day/mo)	SAMPLE NO.	PASS/ FAIL	DATE RECEIVED (day/mo)	DATE CHECKED (day/mo)	PASS/ FAIL	
14/6 ↓ 50614001	50612914							GD
	50612915							GD
	50612916							GD
	50612917							GD
	50612918							GD
	50612906							GD
15/6 ↓	50609906							GD
	50609907							GD
	50609908							GD
	50609909							GD
	50609910							GD

AVG. ROLL WIDTH: 6 AVG. ROLL LENGTH: 320

NUMBER OF ROLLS ABOVE: 6 ACCUMULATIVE NUMBER OF ROLLS: 477

CUMULATIVE AREA: 992,160 sq ft TOTAL NUMBER OF CONFORMANCE TESTS: 4



GEO SYNTec CONSULTANTS



TOWN OF HUNTINGTON

MATERIAL INVENTORY

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK

PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE

DATE: 15 day 06 month 95 year

PRODUCT TYPE: GEONET COMPOSITE MANUFACTURER: AKZO NOBLE

INVENTORY DATE (day/mo)	BATCH / ROLL NO.	Q.A. CONFORMANCE			Q.C. DOCUMENTS			QA ID
		DATE SAMPLED (day/mo)	SAMPLE NO.	PASS/ FAIL	DATE RECEIVED (day/mo)	DATE CHECKED (day/mo)	PASS/ FAIL	
Man. #: 10614005	15/06	50609922						20
		50610901						21
		50610902						22
		50610903						23
		50610904						24
		50610905						25
		50610907						26
		50610908						27
		50610909			20/7	20/7	P	28
		50610910			20/7	20/7	P	29
		50610911						30
		50610912						31
		50611901						32
		50611903						33
		50611904						34
		50611905						35
		50611906			20/7	20/7	P	36
		50611908						37
		50611909						38
		50611910						39
		50611912						40
		50612904						41
		50612908						42
		50612909						43
		50612910						44

AVG. ROLL WIDTH: 6.5' AVG. ROLL LENGTH: 320'

NUMBER OF ROLLS ABOVE: 25 ACCUMULATIVE NUMBER OF ROLLS: 502

CUMULATIVE AREA 1094160 FT² TOTAL NUMBER OF CONFORMANCE TESTS: 4

SHEET NO 25 of 62



GEOSYNTEC CONSULTANTS



TOWN OF HUNTINGTON

MATERIAL INVENTORY

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK

PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF
LANDFILL CLOSURE

DATE: 15 day 06 month 95 year

PRODUCT TYPE: GEONET ~~GE~~ COMPOSITE MANUFACTURER: AKZO NOBEL

INVENTORY DATE (day/mo)	BATCH / ROLL NO.	Q.A. CONFORMANCE			Q.C. DOCUMENTS			QA ID
		DATE SAMPLED (day/mo)	SAMPLE NO.	PASS/ FAIL	DATE RECEIVED (day/mo)	DATE CHECKED (day/mo)	PASS/ FAIL	
19/6	50612912				20/7	20/7	P	20
	50612913							21
	50613902							22
	50613908							23
	50613911				20/7	20/7	P	24
	50613912							25
	50613914							26
	50613915							27
	50613916							28
	50613918				20/7	20/7	P	29
	50613919							30
	50613922							31
10/6	50611913							32
	50611917				19/6	7/7	P	33
	50613901							34
	50613903							35
	50613909				19/6	7/7	P	36
	50613906							37
	50613907				19/6	7/7	P	38
	50613909							39
	50613910							40
	50613913							41
	50613921							42
	50614901							43

AVG. ROLL WIDTH: 6.5' AVG. ROLL LENGTH: 320'
 NUMBER OF ROLLS ABOVE: 24 ACCUMULATIVE NUMBER OF ROLLS: 326
 CUMULATIVE AREA: 1094080 FT² TOTAL NUMBER OF CONFORMANCE TESTS: 4

SHEET NO. 26 of 62



GEOSYNTEC CONSULTANTS



TOWN OF HUNTINGTON

MATERIAL INVENTORY

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILLLOCATION: SUFFOLK COUNTY, NEW YORKPROJECT NO: GQ3700 TASK NO.: 01DESCRIPTION: CONSTRUCTION OF
LANDFILL CLOSUREDATE: 16 day 6 month 95 year.PRODUCT TYPE: GEONET COMPOSITEMANUFACTURER: AKZO NOBEL

INVENTORY DATE (day/mo)	BATCH / ROLL NO.	Q.A. CONFORMANCE			Q.C. DOCUMENTS			QA ID
		DATE SAMPLED (day/mo)	SAMPLE NO.	PASS/ FAIL	DATE RECEIVED (day/mo)	DATE CHECKED (day/mo)	PASS/ FAIL	
16/6	50614902				19/6	7/7	P	①
	50614903							②
	50614904							③
	50614908							④
	50614910				19/6	7/7	P	⑤
	50614911							⑥
	50614912							⑦
	50614913							⑧
	50615910							⑨
	50615914							⑩
	50615919							⑪
	50615916							⑫
	50615917							⑬
	50615918				19/6	7/7	P	⑭
	50615919							⑮
	50615921				19/6	7/7	P	⑯
	50616901							⑰
	50616902				19/6	7/7	P	⑱
	50616903							⑲
	50616904				19/6	7/7	P	⑳
	50616905							㉑
	50616906							㉒
	50616907							㉓
	50616908							㉔
	50616909				19/6	7/7	P	㉕

AVG. ROLL WIDTH: 6.57' AVG. ROLL LENGTH: 320'NUMBER OF ROLLS ABOVE: 25 ACCUMULATIVE NUMBER OF ROLLS: 551CUMULATIVE AREA: 114680 FT² TOTAL NUMBER OF CONFORMANCE TESTS: 4



GEO SYNTec CONSULTANTS



TOWN OF HUNTINGTON

MATERIAL INVENTORY

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK

PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF
LANDFILL CLOSURE

DATE: 22 day 06 month 95 year

PRODUCT TYPE: GEONET COMPOSITE

MANUFACTURER: AKZO NOBEL

INVENTORY DATE (day/mo)	BATCH / ROLL NO.	Q.A. CONFORMANCE			Q.C. DOCUMENTS			QA ID
		DATE SAMPLED (day/mo)	SAMPLE NO.	PASS/ FAIL	DATE RECEIVED (day/mo)	DATE CHECKED (day/mo)	PASS/ FAIL	
22/6	50613920							
	50614904				22/6	7/7	P	
	50614906							
	50614907							
	50614909							
	50614916				22/6	7/7	P	
	50615901							
	50615902				22/6	7/7	P	
	50615903							
	50615905							
	50615906				22/6	7/7	P	
	50615909				22/6	7/7	P	
	50615911							
	50615912				22/6	7/7	P	
	50615913							
	50616910							
	50616911							
	50616912				22/6	7/7	P	
	50616913							
	50617902							
	50617904							
	50617905							
	50617906							
	50617907							
	50617908							

AVG. ROLL WIDTH: 6.5'

AVG. ROLL LENGTH: 320'

NUMBER OF ROLLS ABOVE: 25

ACCUMULATIVE NUMBER OF ROLLS: 576

CUMULATIVE AREA: 1,198,080 FT²

TOTAL NUMBER OF CONFORMANCE TESTS: 4



GeoSYNTEC CONSULTANTS



TOWN OF HUNTINGTON

MATERIAL INVENTORY

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK

PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE

DATE: 22 day 06 month 95 year

PRODUCT TYPE: GEONET GEOTEXTILE

MANUFACTURER: AKZO NOBEL

INVENTORY DATE (day/mo)	BATCH / ROLL NO.	Q.A. CONFORMANCE			Q.C. DOCUMENTS			QA ID
		DATE SAMPLED (day/mo)	SAMPLE NO.	PASS/FAIL	DATE RECEIVED (day/mo)	DATE CHECKED (day/mo)	PASS/FAIL	
22/6	50617909							②
	50617910							②
	50617911							②
	50617912				22/6	7/7	P	②
	50617913							②
	50617914							②
	50617915							②
	50617916				22/6	7/7	P	②
	50617917							②
	50617918							②
	50617919							②
	50617921							②
	50617921							②
	50617923							②
	50617920							②
	50617922				22/6	7/7	P	②
	50618901							②
	50618902							②
	50618904							②
	50618905				22/6	7/7	P	②
	50618906							②
	50618908							②
	50618910							②
	50618911				22/6	7/7	P	②
	50618912							②

Man. #: 50621001 →

AVG. ROLL WIDTH: 6.5' AVG. ROLL LENGTH: 320'
NUMBER OF ROLLS ABOVE: 25 ACCUMULATIVE NUMBER OF ROLLS: 601
CUMULATIVE AREA: 1250,080 FT² TOTAL NUMBER OF CONFORMANCE TESTS: 4

SHEET NO. 29 - 62



GEOSYNTEC CONSULTANTS



TOWN OF HUNTINGTON

MATERIAL INVENTORY

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK

PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE

DATE: 22 day 06 month 95 year

PRODUCT TYPE: GEONET COMPOSITE

MANUFACTURER: AKZO NOBEL

INVENTORY DATE (day/mo)	BATCH / ROLL NO.	Q.A. CONFORMANCE			Q.C. DOCUMENTS			QA ID
		DATE SAMPLED (day/mo)	SAMPLE NO.	PASS/FAIL	DATE RECEIVED (day/mo)	DATE CHECKED (day/mo)	PASS/FAIL	
22/6	50618913							22
	50618914							23
	50618915							24
	50618916							25
	50618917							26
	50618918							27
	50618919				22/6	7/7	P	28
	50618920							29
	50618921							30
	50618922							31
	50619901				22/6	7/7	P	32
	50619902							33
	50619903							34
	50619904							35
	50619907				22/6	7/7	P	36
	50619909							37
	50619911							38
	50619913							39
	50619914							40
	50619916							41
	50619918							42
	50619919				22/6	7/7	P	43
	50619920							44
	50619921							45

AVG. ROLL WIDTH: 6.5' AVG. ROLL LENGTH: 320'
 NUMBER OF ROLLS ABOVE: 24 ACCUMULATIVE NUMBER OF ROLLS: 625
 CUMULATIVE AREA: 1,300,000 FT² TOTAL NUMBER OF CONFORMANCE TESTS: 4

SHEET NO. 30 OF 62



GEOSYNTEC CONSULTANTS



TOWN OF HUNTINGTON

MATERIAL INVENTORY

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK

PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE

DATE: 23 day 06 month 95 year

PRODUCT TYPE: GEONET COMPOSITE

MANUFACTURER: AKZO NOBEL

INVENTORY DATE (day/mo)	BATCH / ROLL NO.	Q.A. CONFORMANCE			Q.C. DOCUMENTS			QA ID
		DATE SAMPLED (day/mo)	SAMPLE NO.	PASS/ FAIL	DATE RECEIVED (day/mo)	DATE CHECKED (day/mo)	PASS/ FAIL	
Man #: 0622009 23/6	50618903							①
	50618924							②
	50619909							③
	50619906							④
	50619915							⑤
	50619917							⑥
	50620901							⑦
	50620902				23/6	7/7	P	⑧
	50620903							⑨
	50620904							⑩
	50620905				23/6	7/7	P	⑪
	50620906							⑫
	50620907							⑬
	50620908							⑭
	50620909							⑮
	50620910				23/6	7/7	P	⑯
	50620911							⑰
	50620912							⑱
	50620913				23/6	7/7	P	⑲
	50620914							⑳
	50621901							㉑
	50621902							㉒
	50621903				23/6	7/7	P	㉓
	50621904							㉔
	50621909							㉕

AVG. ROLL WIDTH: 6.9 AVG. ROLL LENGTH: 320'

NUMBER OF ROLLS ABOVE: 29 ACCUMULATIVE NUMBER OF ROLLS: 650

CUMULATIVE AREA 1352,000 FT² TOTAL NUMBER OF CONFORMANCE TESTS: 4

SHEET NO. 31 of 62



GEOSYNTEC CONSULTANTS



TOWN OF HUNTINGTON

MATERIAL INVENTORY

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK

PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE

DATE: 23 day 6 month 1995 year

PRODUCT TYPE: Geonet Composite

MANUFACTURER: AKZO Nobel

INVENTORY DATE (day/mo)	BATCH / ROLL NO.	Q.A. CONFORMANCE			Q.C. DOCUMENTS			QA ID
		DATE SAMPLED (day/mo)	SAMPLE NO.	PASS/FAIL	DATE RECEIVED (day/mo)	DATE CHECKED (day/mo)	PASS/FAIL	
23/6 ↓	50621906				23/6	7/7	P	2
	50621907							2
	50621908				23/6	7/7	P	2
	50621911							2
	50621912							2
	50621914							2
	50621915							2
	50621916				23/6	7/7	P	2
	50621917							2
	50621918							2
28/6 ↓	50621919				23/6	7/7	P	2
	50621920							2
	50615907							2
	50617923							2
	50619908							2
	50619910							2
	50619912							2
	50621921							2
	50621922							2
	50622901				28/6	7/7	P	2
↓	50622902				28/6	7/7	P	2
	50622904							2
	50622905							2
	50622906							2

AVG. ROLL WIDTH: 6.5' AVG. ROLL LENGTH: 320'

NUMBER OF ROLLS ABOVE: 24 ACCUMULATIVE NUMBER OF ROLLS: 674

CUMULATIVE AREA: 1,401,920 FT² TOTAL NUMBER OF CONFORMANCE TESTS: 4

SHEET NO. 32 OF 62



GEOSYNTEC CONSULTANTS



TOWN OF HUNTINGTON

MATERIAL INVENTORY

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK

PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE

DATE: 28 day 6 month 1995 year

PRODUCT TYPE: Geonet Composite

MANUFACTURER: Akzo Nobel

INVENTORY DATE (day/mo)	BATCH / ROLL NO.	Q.A. CONFORMANCE			Q.C. DOCUMENTS			QA ID
		DATE SAMPLED (day/mo)	SAMPLE NO.	PASS/ FAIL	DATE RECEIVED (day/mo)	DATE CHECKED (day/mo)	PASS/ FAIL	
<u>28/6</u>	<u>50622907</u>							<u>28/6</u>
	<u>50622908</u>							<u>28/6</u>
	<u>50622910</u>				<u>28/6</u>	<u>7/1</u>	<u>P</u>	<u>28/6</u>
	<u>50622914</u>							<u>28/6</u>
	<u>50622915</u>							<u>28/6</u>
	<u>50623901</u>							<u>28/6</u>
	<u>50623902</u>							<u>28/6</u>
	<u>50623903</u>							<u>28/6</u>
	<u>50623905</u>							<u>28/6</u>
	<u>50623909</u>							<u>28/6</u>
	<u>50623910</u>							<u>28/6</u>
	<u>50623911</u>							<u>28/6</u>
	<u>50623913</u>							<u>28/6</u>
	<u>50623914</u>							<u>28/6</u>
	<u>50623915</u>							<u>28/6</u>
	<u>50623916</u>							<u>28/6</u>
	<u>50623917</u>							<u>28/6</u>
	<u>50623918</u>							<u>28/6</u>
	<u>50623919</u>							<u>28/6</u>
	<u>50623920</u>							<u>28/6</u>
<u>↓</u>	<u>50625906</u>				<u>28/6</u>	<u>7/1</u>	<u>P</u>	<u>28/6</u>
	<u>50625907</u>							<u>28/6</u>
	<u>50625908</u>							<u>28/6</u>
	<u>50625909</u>				<u>28/6</u>	<u>7/1</u>	<u>P</u>	<u>28/6</u>
	<u>50625910</u>							<u>28/6</u>

AVG. ROLL WIDTH: 16.5 AVG. ROLL LENGTH: 320

NUMBER OF ROLLS ABOVE: 25 ACCUMULATIVE NUMBER OF ROLLS: 699

CUMULATIVE AREA: 1453,920 TOTAL NUMBER OF CONFORMANCE TESTS: 4



GEOSYNTEC CONSULTANTS



TOWN OF HUNTINGTON

MATERIAL INVENTORY

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK

PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE

DATE: 1 day 7 month 1995 year

PRODUCT TYPE: Geonet Composite

MANUFACTURER: Akzo Nobel

INVENTORY DATE (day/mo)	BATCH / ROLL NO.	Q.A. CONFORMANCE			Q.C. DOCUMENTS			QA ID
		DATE SAMPLED (day/mo)	SAMPLE NO.	PASS/ FAIL	DATE RECEIVED (day/mo)	DATE CHECKED (day/mo)	PASS/ FAIL	
1/7	50622909							
	50622911							
	50622912							
	50622913							
	50622914				1/7	7/7	P	
	50622917							
	50622918							
	50623904				1/7	7/7	P	
	50623906							
	50623907							
	50623912							
	50623921				1/7	7/7	P	
	50623922							
	50624901				1/7	7/7	P	
	50624902							
	50624903							
	50624904							
	50624906							
	50624907							
	50624908							
	50624909							
	50624910							
	50624911							
	50624912				1/7	7/7	P	

AVG. ROLL WIDTH: 6.5 AVG. ROLL LENGTH: 320

NUMBER OF ROLLS ABOVE: 24 ACCUMULATIVE NUMBER OF ROLLS: 723

CUMULATIVE AREA: 1,503,840 m² TOTAL NUMBER OF CONFORMANCE TESTS: 4



GEOSYNTEC CONSULTANTS



TOWN OF HUNTINGTON

MATERIAL INVENTORY

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 1 day 7 month 1995 year

PRODUCT TYPE: Geonet Composite MANUFACTURER: AKZO Nobel

INVENTORY DATE (day/mo)	BATCH / ROLL NO.	Q.A. CONFORMANCE			Q.C. DOCUMENTS			QA ID
		DATE SAMPLED (day/mo)	SAMPLE NO.	PASS/ FAIL	DATE RECEIVED (day/mo)	DATE CHECKED (day/mo)	PASS/ FAIL	
1/7 ↓	50624913							
	50624914							
	50624915				1/7	7/7		AS
	50624916							
	50624917							
	50625901							
	50625902							
	50625903				1/7	7/7		DW
	50625904							
	50625905							
7/7	50627902				1/7	7/7		DW
	50628901				1/7	7/7		DW
	50627903				20/7	20/7	P	DW
	50630902				20/7	20/7	P	DW
	50630903							
	50630904							
	50630905				20/7	20/7	P	DW
	50630906				20/7	20/7	P	DW
	50630907				20/7	20/7	P	DW
	50630908				20/7	20/7	P	DW
	50701901							
	50701902							
	50701903				20/7	20/7	P	DW
	50701904							

Mat. #:
50705010

AVG. ROLL WIDTH: 6.5 AVG. ROLL LENGTH: 320

NUMBER OF ROLLS ABOVE: 24 ACCUMULATIVE NUMBER OF ROLLS: 141

CUMULATIVE AREA: 1553.760 ft² TOTAL NUMBER OF CONFORMANCE TESTS: 4



GEO SYNTec CONSULTANTS



TOWN OF HUNTINGTON

MATERIAL INVENTORY

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: _____ day _____ month _____ year

PRODUCT TYPE: _____ MANUFACTURER: _____

INVENTORY DATE (day/mo)	BATCH / ROLL NO.	Q.A. CONFORMANCE			Q.C. DOCUMENTS			QA ID
		DATE SAMPLED (day/mo)	SAMPLE NO.	PASS/ FAIL	DATE RECEIVED (day/mo)	DATE CHECKED (day/mo)	PASS/ FAIL	
7/7	50701905							DW
	50701906				20/7	20/7	P	DW
	50701907							DW
	50701908							DW
	50701909							DW
	50701910				20/7	20/7	P	DW
	50701911							DW
	50701912							DW
	50701913				20/7	20/7	P	DW
	50701914							DW
	50701915							DW
	50701916							DW
	50701917				20/7	20/7	P	DW
	50701918							DW
	50701919							DW
	50701920							DW
	50701921				20/7	20/7	P	DW
	50702901							DW
	50702902							DW
	50702903				20/7	20/7	P	DW
	50702904							DW
	50702906				20/7	20/7	P	DW
	50702907							DW
	50702908							DW
	50702910				20/7	20/7	P	DW

AVG. ROLL WIDTH: 6.5 AVG. ROLL LENGTH: 320

NUMBER OF ROLLS ABOVE: 25 ACCUMULATIVE NUMBER OF ROLLS: 772

CUMULATIVE AREA: 1,605,760 ft^2 TOTAL NUMBER OF CONFORMANCE TESTS: 4



PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK

PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF
LANDFILL CLOSURE

DATE: 13 day July month 95 year

PRODUCT TYPE: Geo Composite

MANUFACTURER: AK20 NOB62

AKZO NOBEL ENKANET 4215

MANIFEST
50712003

AVG. ROLL WIDTH: 6 AVG. ROLL LENGTH: 320

NUMBER OF ROLLS ABOVE: 25 ACCUMULATIVE NUMBER OF ROLLS: 707

CUMULATIVE AREA: 1.657760 ft^2 TOTAL NUMBER OF CONFORMANCE TESTS: 4



GEO SYNTEC CONSULTANTS



TOWN OF HUNTINGTON

MATERIAL INVENTORY

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK

PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE

DATE: 13 day July month 95 year

PRODUCT TYPE: GEO COMPOSITE ENKANET 4215

MANUFACTURER: AKZO NOBEL

INVENTORY DATE (day/mo)	BATCH / ROLL NO.	Q.A. CONFORMANCE			Q.C. DOCUMENTS			QA ID
		DATE SAMPLED (day/mo)	SAMPLE NO.	PASS/FAIL	DATE RECEIVED (day/mo)	DATE CHECKED (day/mo)	PASS/FAIL	
507/2003 13/17 ↓ 13/17	50710905							DW
	50710906				20/17	20/17	P	DW
	50710907							DW
	50710909				20/17	20/17	P	DW
	50710912							DW
	50710914							DW
	50710915				20/17	20/17	P	DW
	50711903				20/17	20/17	P	DW
	50711904							DW
	50711905							DW
	50711911							DW
	50711913				20/17	20/17	P	DW
	50711914							DW
507/2003 20/17 ↓ 20/17	50709910							DW
	50709904							DW
	50710908							DW
	50711906				21/17	21/17	P	DW
	50711907							DW
	50711908							DW
	50711909							DW
	50711910				21/17	21/17	P	DW
	50711912							DW
	50712909				21/17	21/17	P	DW

AVG. ROLL WIDTH: 6

AVG. ROLL LENGTH: 320

NUMBER OF ROLLS ABOVE: 23

ACCUMULATIVE NUMBER OF ROLLS: 820

CUMULATIVE AREA: 1705.600 FT²

TOTAL NUMBER OF CONFORMANCE TESTS: 4



GEOSYNTEC CONSULTANTS



TOWN OF HUNTINGTON

MATERIAL INVENTORY

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK

PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE

DATE: 20 day July month 95 year

PRODUCT TYPE: COMPOSITE

MANUFACTURER: AKZO NOBEL ENKADET 4215

INVENTORY DATE (day/mo)	BATCH / ROLL NO.	Q.A. CONFORMANCE			Q.C. DOCUMENTS			QA ID
		DATE SAMPLED (day/mo)	SAMPLE NO.	PASS/FAIL	DATE RECEIVED (day/mo)	DATE CHECKED (day/mo)	PASS/FAIL	
20/7	50712 902							DW
	50712 903							DW
	50712 904				21/7	21/7	P	DW
	50712 907							DW
	50712 908							DW
	50712 909							DW
	50712 910							DW
	50712 911							DW
	50712 912				21/7	21/7	P	DW
	50712 913							DW
	50712 914							DW
	50712 915							DW
	50712 916							DW
	50712 917							DW
	50712 918							DW
	50712 919				21/7	21/7	P	DW
20/7	50712 920							DW
	50713 901							DW
	50713 903				21/7	21/7	P	DW
	50713 906							DW
	50713 907							DW
20/7	50713 912				21/7	21/7	P	DW
	50713 913							DW
	50713 915				21/7	21/7	P	DW
20/7	50714 901							DW

AVG. ROLL WIDTH: 6

AVG. ROLL LENGTH: 320

NUMBER OF ROLLS ABOVE: 25

ACCUMULATIVE NUMBER OF ROLLS: 345

CUMULATIVE AREA: 1,757,600 FR^2 TOTAL NUMBER OF CONFORMANCE TESTS: 4

SUB APPENDIX M-1

GEOCOMPOSITE



GEO SYNTec CONSULTANTS



TOWN OF HUNTINGTON

MATERIAL INVENTORY

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK

PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF
LANDFILL CLOSURE

DATE: 20 day 7 month 95 year

PRODUCT TYPE: GEOCOMPOSITE

MANUFACTURER: AKZO NOBEL
ENKANT 4215

INVENTORY DATE (day/mo)	BATCH / ROLL NO.	Q.A. CONFORMANCE			Q.C. DOCUMENTS			QA ID
		DATE SAMPLED (day/mo)	SAMPLE NO.	PASS/ FAIL	DATE RECEIVED (day/mo)	DATE CHECKED (day/mo)	PASS/ FAIL	
20/7	50714902				21/7	21/7	P	20
21/7	50709904							21
	50709906							22
	50709908				21/7	21/7	P	23
	50709909							24
	50709913							25
	50709914							26
	50709915							27
	50709918							28
	50709919							29
	50710903							30
	50712905							31
	50713905							32
	50713908							33
	50713909							34
	50713910							35
	50713911							36
	50713914				21/7	21/7	P	37
	50714903				21/7	21/7	P	38
	50714904							39
	50714905							40
	50714906				21/7	21/7	P	41
	50714907							42
	50714908							43

AVG. ROLL WIDTH: 16.5 AVG. ROLL LENGTH: 320

NUMBER OF ROLLS ABOVE: 24 ACCUMULATIVE NUMBER OF ROLLS: 369

CUMULATIVE AREA: 1,807,520 ft^2 TOTAL NUMBER OF CONFORMANCE TESTS: 4



GEOSYNTEC CONSULTANTS



TOWN OF HUNTINGTON

MATERIAL INVENTORY

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK

PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE

DATE: 21 day July month 1995 year

PRODUCT TYPE: GeoComposite

MANUFACTURER: AKZO NOBEL

INVENTORY DATE (day/mo)	BATCH / ROLL NO.	Q.A. CONFORMANCE			Q.C. DOCUMENTS			QA ID
		DATE SAMPLED (day/mo)	SAMPLE NO.	PASS/FAIL	DATE RECEIVED (day/mo)	DATE CHECKED (day/mo)	PASS/FAIL	
21/7 ↓	50715901							
	50715902							
	50715904							
	50715905							
	50715906				27/7	27/7	P	
	50715907							
	50715909							
	50715910				27/7	27/7	P	
	50715911							
	50715912							
	50715915							
	50716912				27/7	27/7	P	
	50716913							
	50716914							
24/7	50709912				27/7	27/7	P	
	50710913							
	50714909				27/7	27/7	P	
	50714910							
	50714911							
	50714912							
	50715903				27/7	27/7	P	
	50715908							
	50715913				27/7	27/7	P	
	50715914							

AVG. ROLL WIDTH: 6.5 AVG. ROLL LENGTH: 320

NUMBER OF ROLLS ABOVE: 24 ACCUMULATIVE NUMBER OF ROLLS: 893

CUMULATIVE AREA: 1857.440 TOTAL NUMBER OF CONFORMANCE TESTS: 4



GEOSYNTEC CONSULTANTS



TOWN OF HUNTINGTON

MATERIAL INVENTORY

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK

PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE

DATE: 24 day 7 month 1995 year

PRODUCT TYPE: Geocomposite

MANUFACTURER: AKZO NOBEL

INVENTORY DATE (day/mo)	BATCH / ROLL NO.	Q.A. CONFORMANCE			Q.C. DOCUMENTS			QA ID
		DATE SAMPLED (day/mo)	SAMPLE NO.	PASS/FAIL	DATE RECEIVED (day/mo)	DATE CHECKED (day/mo)	PASS/FAIL	
<u>24/7</u>	<u>50716901</u>				<u>27/7</u>	<u>27/7</u>	<u>P</u>	<u>24/7</u>
	<u>50716902</u>							<u>24/7</u>
	<u>50716903</u>							<u>24/7</u>
	<u>50716904</u>				<u>27/7</u>	<u>27/7</u>	<u>P</u>	<u>24/7</u>
	<u>50716905</u>							<u>24/7</u>
	<u>50716906</u>							<u>24/7</u>
	<u>50716908</u>							<u>24/7</u>
	<u>50716909</u>				<u>27/7</u>	<u>27/7</u>	<u>P</u>	<u>24/7</u>
	<u>50716910</u>							<u>24/7</u>
	<u>50716911</u>							<u>24/7</u>
	<u>50718901</u>				<u>27/7</u>	<u>27/7</u>	<u>P</u>	<u>24/7</u>
	<u>50718902</u>							<u>24/7</u>
	<u>50718903</u>							<u>24/7</u>
	<u>50718904</u>				<u>27/7</u>	<u>27/7</u>	<u>P</u>	<u>24/7</u>
	<u>50718905</u>							<u>24/7</u>
	<u>50718906</u>				<u>27/7</u>	<u>27/7</u>	<u>P</u>	<u>24/7</u>
	<u>50718907</u>							<u>24/7</u>
	<u>50718908</u>				<u>27/7</u>	<u>27/7</u>	<u>P</u>	<u>24/7</u>
	<u>50719902</u>							<u>24/7</u>
	<u>50719904</u>				<u>27/7</u>	<u>27/7</u>	<u>P</u>	<u>24/7</u>
	<u>50719906</u>							<u>24/7</u>
	<u>50719908</u>							<u>24/7</u>
	<u>50719909</u>				<u>27/7</u>	<u>27/7</u>	<u>P</u>	<u>24/7</u>
	<u>50719910</u>							<u>24/7</u>
	<u>50719912</u>							<u>24/7</u>

AVG. ROLL WIDTH: 6.5

AVG. ROLL LENGTH: 320

NUMBER OF ROLLS ABOVE: 25

ACCUMULATIVE NUMBER OF ROLLS: 918

CUMULATIVE AREA: 1909440

TOTAL NUMBER OF CONFORMANCE TESTS: 4



GEOSYNTEC CONSULTANTS



TOWN OF HUNTINGTON

MATERIAL INVENTORY

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK

PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF
LANDFILL CLOSURE

DATE: 24 day July month 1995 year

PRODUCT TYPE: Geocomposite

MANUFACTURER: AKZO NOBEL

INVENTORY DATE (day/mo)	BATCH / ROLL NO.	Q.A. CONFORMANCE			Q.C. DOCUMENTS			QA ID
		DATE SAMPLED (day/mo)	SAMPLE NO.	PASS/ FAIL	DATE RECEIVED (day/mo)	DATE CHECKED (day/mo)	PASS/ FAIL	
24/7	50720901				27/7	27/7	P	
↓	50720902				27/7	27/7	P	
50722007 26/7	50720911							
	50720912							
	50720913				3/8	3/8	P	
	50720914							
	50720915				3/8	3/8	P	
	50721901				3/8	3/8		
	50721902							
	50721903							
	50721904				3/8	3/8	P	
	50721905							
	50721906							
	50721907							
	50721908				3/8	3/8	P	
	50721909							
	50721911				3/8	3/8	P	
	50722902							
	50722903							
	50722904				3/8	3/8	P	
	50722905							
	50722906							
	50722907							
↓	50722908				3/8	3/8	P	

AVG. ROLL WIDTH: 6.5

AVG. ROLL LENGTH: 320

NUMBER OF ROLLS ABOVE: 24

ACCUMULATIVE NUMBER OF ROLLS: 942

CUMULATIVE AREA: 1959,360 ft² TOTAL NUMBER OF CONFORMANCE TESTS: 4



GEO SYNTEC CONSULTANTS



TOWN OF HUNTINGTON

MATERIAL INVENTORY

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK

PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE

DATE: 26 day July month 1995 year

PRODUCT TYPE: Geocomposite

MANUFACTURER: AKZO NOBEL

INVENTORY DATE (day/mo)	BATCH / ROLL NO.	Q.A. CONFORMANCE			Q.C. DOCUMENTS			QA ID
		DATE SAMPLED (day/mo)	SAMPLE NO.	PASS/FAIL	DATE RECEIVED (day/mo)	DATE CHECKED (day/mo)	PASS/FAIL	
26/7 ↓	50722909				3/8	3/8	P	26/7
	50723901				3/8	3/8	P	26/7
	50723902				3/8	3/8	P	26/7
	50723903				3/8	3/8	P	26/7
	50723904							26/7
	50723905				3/8	3/8	P	26/7
	50723906							26/7
	50723907				3/8	3/8	P	26/7
	50723908							26/7
	50723909							26/7
	50723910							26/7
	50723911							26/7
	50723912							26/7
31/7 ↓	50724901				3/8	3/8	P	31/7
	50724905							31/7
	50709901							31/7
	50725907							31/7
	50725908							31/7
	50725909							31/7
	50725910							31/7
↓	50725911							31/7
	50725912							31/7
	50725913							31/7
	50725914							31/7

AVG. ROLL WIDTH: 6.5

AVG. ROLL LENGTH: 320

NUMBER OF ROLLS ABOVE: 24

ACCUMULATIVE NUMBER OF ROLLS: 966

CUMULATIVE AREA: 2,009,280 ft²

TOTAL NUMBER OF CONFORMANCE TESTS: 4



GEOSYNTEC CONSULTANTS



TOWN OF HUNTINGTON

MATERIAL INVENTORY

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK

PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE

DATE: 31 day July month 1995 year

PRODUCT TYPE: GeoComposite

MANUFACTURER: AKZO Nobel

INVENTORY DATE (day/mo)	BATCH / ROLL NO.	Q.A. CONFORMANCE			Q.C. DOCUMENTS			QA ID
		DATE SAMPLED (day/mo)	SAMPLE NO.	PASS/FAIL	DATE RECEIVED (day/mo)	DATE CHECKED (day/mo)	PASS/FAIL	
31/7	50725915				8/4	8/4	P	26
	50725916							27
	50725917							28
	50725918				8/4	8/4	P	29
	50726901							30
	50726902							31
	50726903				8/4	8/4	P	32
	50726904							33
	50726908				8/4	8/4	P	34
	50726909							35
	50726921							36
	50727908							37
	50727909							38
	50727910							39
	50727911							40
	50727912				8/4	8/4	P	41
	50727913							42
	50727914							43
	50728901							44
	50728902							45
	50728903				8/4	8/4	P	46
31/7	50728904							47
	50728905							48
	50728909				8/4	8/4	P	49
	50728911							50
50727003	50724902							51
	50724904							52

AVG. ROLL WIDTH: 60.500 6

AVG. ROLL LENGTH: 320

NUMBER OF ROLLS ABOVE: 28

ACCUMULATIVE NUMBER OF ROLLS: 944

CUMULATIVE AREA: 2,067,520 ft²

TOTAL NUMBER OF CONFORMANCE TESTS: 4



GEO SYNTec CONSULTANTS



TOWN OF HUNTINGTON

MATERIAL INVENTORY

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 31 day July month 1995 year

PRODUCT TYPE: GeoComposite MANUFACTURER: Akzo Nobel

INVENTORY DATE (day/mo)	BATCH / ROLL NO.	Q.A. CONFORMANCE			Q.C. DOCUMENTS			QA ID
		DATE SAMPLED (day/mo)	SAMPLE NO.	PASS/ FAIL	DATE RECEIVED (day/mo)	DATE CHECKED (day/mo)	PASS/ FAIL	
31/7	50724906				8/4	8/4	P	24
	50724907				8			25
	50724908							26
	50724909				8/4	8/4	P	27
	50724910							28
	50725901							29
	50725902							30
	50725903				8/4	8/4	P	31
	50725904							32
	50725905							33
	50725906				8/4	8/4	P	34
	50725919							35
	50725920							36
	50726905							37
	50726906							38
	50726907							39
	50726910							40
	50726911							41
	50726912							42
	50726913				8/4	8/4	P	43
	50726914							44
	50726915							45
	50726916							46
	50726917							47
	50726918							48

AVG. ROLL WIDTH: 6.5 AVG. ROLL LENGTH: 320

NUMBER OF ROLLS ABOVE: 25 ACCUMULATIVE NUMBER OF ROLLS: 1019

CUMULATIVE AREA: 2,119,520 ft² TOTAL NUMBER OF CONFORMANCE TESTS: 4

MATERIAL INVENTORY

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK

PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE

DATE: 31 day July month 1995 year

PRODUCT TYPE: GeoComposite

MANUFACTURER: Akzo Nobel

[illegible]

AVG. ROLL WIDTH: 915 6' AVG. ROLL LENGTH: 320

NUMBER OF ROLLS ABOVE: 10 ACCUMULATIVE NUMBER OF ROLLS: 1029

CUMULATIVE AREA: 2,140,320 TOTAL NUMBER OF CONFORMANCE TESTS: 4



GEO SYNTEC CONSULTANTS



TOWN OF HUNTINGTON

MATERIAL INVENTORY

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK

PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF
LANDFILL CLOSURE

DATE: 4 day AUG month 95 year

PRODUCT TYPE: COMPOSITE ENKANET

MANUFACTURER: AKZO NOBEL

4215

INVENTORY DATE (day/mo)	BATCH / ROLL NO.	Q.A. CONFORMANCE			Q.C. DOCUMENTS			QA ID
		DATE SAMPLED (day/mo)	SAMPLE NO.	PASS/ FAIL	DATE RECEIVED (day/mo)	DATE CHECKED (day/mo)	PASS/ FAIL	
4/8	50728912							DW
	50728913							
	50728914							
	50728916							
	50728917							
	50728918							
	50728919							
	50728920							
	50728922							
	50729901							
	50729902							
	50729903 ✓				4/AUG	4/AUG	P	AW
	50729904							
	50729905							
	50729906				4/AUG	4/AUG	P	DW
	5030902							
	50730905							
	50730906				4/AUG	4/AUG	P	AW
	50730907							
	50730908				4/AUG	4/AUG	P	AW
	50730909							
	50730910				4/AUG	4/AUG	P	AW
	50731901				4/AUG	4/AUG		
4/8	50731902							
	50731903				4/AUG	4/AUG	P	AW

AVG. ROLL WIDTH: 6 AVG. ROLL LENGTH: 320

NUMBER OF ROLLS ABOVE: 25 ACCUMULATIVE NUMBER OF ROLLS: 1054

CUMULATIVE AREA: 2192.320 ft^2 TOTAL NUMBER OF CONFORMANCE TESTS: 4

MATERIAL INVENTORY

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK

PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE

DATE: 4 day AUG month 95 year

PRODUCT TYPE: COMPOSITE ENKANET
4215

MANUFACTURER: AKZO NOBEL

[illegible]

AVG. ROLL WIDTH: 6 AVG. ROLL LENGTH: 320

NUMBER OF ROLLS ABOVE: 9 ACCUMULATIVE NUMBER OF ROLLS: 1063

CUMULATIVE AREA: 2,211.040 ft² TOTAL NUMBER OF CONFORMANCE TESTS:

**INTERIM REMEDIAL PROGRAM
HUNTINGTONEAST NORTH LANDFILL
SUFFOLK COUNTY, NEW YORK**

GEOCOMPOSITE MATERIAL INVENTORY LOG

DATE	ROLL NUMBER	LOT NUMBER	LENGTH (ft)	WIDTH (ft)	QC CERTS GEOTEXTILE	QC CERTS GEONET	DATE RECEIVED	REMARKS	QA ID
9/25/95	50916911		321.0	6.5	YES	YES	27/9/95	YES	NMB
9/25/95	50916909		321.0	6.5				B/L 50922001	NMB
9/25/95	50903924		321.0	6.5					NMB
9/25/95	50916907		321.0	6.5					NMB
9/25/95	50916910		321.0	6.5					NMB
9/25/95	50917922		321.0	6.5	YES	YES	27/9/95	YES	NMB
9/25/95	50917915		321.0	6.5					NMB
9/25/95	50917909		321.0	6.5					NMB
9/25/95	50917913		321.0	6.5	YES	YES	27/9/95	YES	NMB
9/25/95	50917923		321.0	6.5					NMB
9/25/95	50917914		321.0	6.5					NMB
9/25/95	50912915		321.0	6.5	YES	YES	27/9/95	YES	NMB
9/25/95	50916908		321.0	6.5	YES	YES	27/9/95	YES	NMB
9/25/95	50916913		321.0	6.5					NMB
9/25/95	50912916		321.0	6.5					NMB
9/25/95	50912917		321.0	6.5					NMB
9/25/95	50912914		321.0	6.5					NMB
9/25/95	50912912		321.0	6.5					NMB
9/25/95	50912908		321.0	6.5					NMB
9/25/95	50912906		321.0	6.5					NMB
9/25/95	50912902		321.0	6.5	YES	YES	27/9/95	YES	NMB
9/25/95	50912903		321.0	6.5					NMB
9/25/95	50912910		321.0	6.5	YES	YES	27/9/95	YES	NMB
9/25/95	50912904		321.0	6.5					NMB
9/25/95	50912909		321.0	6.5					NMB
9/25/95	50912913		321.0	6.5					NMB
9/25/95	50912911		321.0	6.5					NMB
9/25/95	50912907		321.0	6.5					NMB
9/25/95	50911919		321.0	6.5					NMB
9/25/95	50911920		321.0	6.5					NMB
9/25/95	50912905		321.0	6.5	YES	YES	27/9/95	YES	NMB
9/25/95	50917924		321.0	6.5					NMB
9/25/95	50917926		321.0	6.5					NMB
9/25/95	50826901		321.0	6.5	YES	YES	27/9/95	YES	NMB
9/25/95	50917928		321.0	6.5					NMB
9/25/95	50917925		321.0	6.5					NMB
9/25/95	50917927		321.0	6.5	YES	YES	27/9/95	YES	NMB
9/28/95	50826908		321.0	6.5				B/L 50927008	NMB
9/28/95	50831904		321.0	6.5					NMB
9/28/95	50831905		321.0	6.5					NMB
9/28/95	50901907		321.0	6.5					NMB
9/28/95	50901909		321.0	6.5	YES	YES	09/28/95	PASS	NMB
9/28/95	50901910		321.0	6.5					NMB
9/28/95	50901911		321.0	6.5					NMB
9/28/95	50901912		321.0	6.5	YES	YES	09/28/95	PASS	NMB
9/28/95	50901913		321.0	6.5					NMB
9/28/95	50901917		321.0	6.5					NMB
9/28/95	50901918		321.0	6.5					NMB
9/28/95	50901919		321.0	6.5	YES	YES	09/28/95	PASS	NMB
9/28/95	50917901		321.0	6.5					NMB
9/28/95	50918901		321.0	6.5					NMB
9/28/95	50918903		321.0	6.5	YES	YES	09/28/95	PASS	NMB
9/28/95	50918907		321.0	6.5					NMB
9/28/95	50918911		321.0	6.5	YES	YES	09/28/95	B/L 50927008 PASS	NMB
9/28/95	50918912		321.0	6.5					NMB
9/28/95	50918914		321.0	6.5					NMB
9/28/95	50918915		321.0	6.5	YES	YES	09/28/95	PASS	NMB

**INTERIM REMEDIAL PROGRAM
HUNTINGTON/EAST NORTH LANDFILL
SUFFOLK COUNTY, NEW YORK**

GEOCOMPOSITE MATERIAL INVENTORY LOG

DATE	ROLL NUMBER	LOT NUMBER	LENGTH (ft)	WIDTH (ft)	QC CERTS GEOTEXTILE	QC CERTS GEONET	DATE RECEIVED	REMARKS	QA ID
9/28/95	50918916		321.0	6.5					NMB
9/28/95	50918917		321.0	6.5					NMB
9/28/95	50918918		321.0	6.5					NMB
9/28/95	50918922		321.0	6.5					NMB
9/28/95	50918923		321.0	6.5					NMB
9/28/95	50918924		321.0	6.5					NMB
9/28/95	50918925		321.0	6.5	YES	YES	09/28/95	PASS	NMB
9/28/95	50918926		321.0	6.5					NMB
9/28/95	50918927		321.0	6.5					NMB
9/28/95	50918928		321.0	6.5					NMB
9/28/95	50918929		321.0	6.5					NMB
9/28/95	50919908		321.0	6.5					NMB
9/28/95	50919909		321.0	6.5					NMB
9/28/95	50919910		321.0	6.5					NMB
9/28/95	50919911		321.0	6.5	YES	YES	09/28/95	PASS	NMB
9/28/95	50919913		321.0	6.5					NMB
9/28/95	50919914		321.0	6.5					NMB
10/2/95	50901914		321.0	6.5					NMB
10/2/95	50918902		321.0	6.5					NMB
10/2/95	50918904		321.0	6.5					NMB
10/2/95	50918905		321.0	6.5					NMB
10/2/95	50918906		321.0	6.5					NMB
10/2/95	50918908		321.0	6.5					NMB
10/2/95	50918913		321.0	6.5					NMB
10/2/95	50918919		321.0	6.5	YES	YES	10/02/95	PASS	NMB
10/2/95	50918920		321.0	6.5					NMB
10/2/95	50918921		321.0	6.5					NMB
10/2/95	50919901		321.0	6.5					NMB
10/2/95	50919904		321.0	6.5					NMB
10/2/95	50919916		321.0	6.5	YES	YES	10/02/95	PASS	NMB
10/2/95	50919917		321.0	6.5					NMB
10/2/95	50919918		321.0	6.5					NMB
10/2/95	50919919		321.0	6.5					NMB
10/2/95	50919920		321.0	6.5					NMB
10/2/95	50919921		321.0	6.5	YES	YES	10/02/95	PASS	NMB
10/2/95	50920902		321.0	6.5					NMB
10/2/95	50920903		321.0	6.5	YES	YES	10/02/95	PASS	NMB
10/2/95	50920904		321.0	6.5					NMB
10/2/95	50920905		321.0	6.5					NMB
10/2/95	50920907		321.0	6.5					NMB
10/2/95	50920909		321.0	6.5					NMB
10/2/95	50920910		321.0	6.5					NMB
10/2/95	50920911		321.0	6.5					NMB
10/2/95	50920912		321.0	6.5	YES	YES	10/02/95	PASS	NMB
10/2/95	50920913		321.0	6.5					NMB
10/2/95	50920914		321.0	6.5					NMB
10/2/95	50920918		321.0	6.5					NMB
10/2/95	50920919		321.0	6.5					NMB
10/2/95	50921901		321.0	6.5					NMB
10/2/95	50921902		321.0	6.5					NMB
10/2/95	50921904		321.0	6.5					NMB
10/2/95	50921905		321.0	6.5					NMB
10/2/95	50921911		321.0	6.5					NMB
10/5/95	50825904		321.0	6.5				B/L 51004004	NMB
10/5/95	50826902		321.0	6.5					NMB
10/5/95	50826903		321.0	6.5					NMB
10/5/95	50826904		321.0	6.5					NMB

**INTERIM REMEDIAL PROGRAM
HUNTINGTONEAST NORTH LANDFILL
SUFFOLK COUNTY, NEW YORK**

GEOCOMPOSITE MATERIAL INVENTORY LOG

DATE	ROLL NUMBER	LOT NUMBER	LENGTH (ft)	WIDTH (ft)	QC CERTS GEOTEXTILE	QC CERTS GEONET	DATE RECEIVED	REMARKS	QA ID
10/5/95	50901915		321.0	6.5	YES	YES	10/05/95	PASS	NMB
10/5/95	50918930		321.0	6.5	YES	YES	10/05/95	PASS	NMB
10/5/95	50919902		321.0	6.5					NMB
10/5/95	50919903		321.0	6.5	YES	YES	10/05/95	PASS	NMB
10/5/95	50919905		321.0	6.5					NMB
10/5/95	50919907		321.0	6.5					NMB
10/5/95	50919915		321.0	6.5					NMB
10/5/95	50920915		321.0	6.5					NMB
10/5/95	50920917		321.0	6.5	YES	YES	10/05/95	PASS	NMB
10/5/95	50921906		321.0	6.5	YES	YES	10/05/95	PASS	NMB
10/5/95	50921907		321.0	6.5					NMB
10/5/95	50921908		321.0	6.5					NMB
10/5/95	50921909		321.0	6.5	YES	YES	10/05/95	PASS	NMB
10/5/95	50921910		321.0	6.5					NMB
10/5/95	50921912		321.0	6.5					NMB
10/5/95	50921913		321.0	6.5					NMB
10/5/95	50921914		321.0	6.5					NMB
10/5/95	50921915		321.0	6.5	YES	YES	10/05/95	PASS	NMB
10/5/95	50921916		321.0	6.5					NMB
10/5/95	50921917		321.0	6.5					NMB
10/5/95	50921918		321.0	6.5	YES	YES	10/05/95	PASS	NMB
10/5/95	50921919		321.0	6.5					NMB
10/5/95	50921920		321.0	6.5					NMB
10/5/95	50921922		321.0	6.5	YES	YES	10/05/95	PASS	NMB
10/5/95	50921924		321.0	6.5					NMB
10/5/95	50922901		321.0	6.5					NMB
10/5/95	50922902		321.0	6.5					NMB
10/5/95	50922903		321.0	6.5	YES	YES	10/05/95	PASS	NMB
10/5/95	50922908		321.0	6.5					NMB
10/5/95	50924917		321.0	6.5					NMB
10/5/95	50924918		321.0	6.5					NMB
10/5/95	50924920		321.0	6.5					NMB
10/5/95	50925907		321.0	6.5	YES	YES	10/05/95	PASS	NMB
10/5/95	50920908		321.0	6.5					NMB
10/5/95	50922909		321.0	6.5					NMB
10/5/95	50922910		321.0	6.5	YES	YES	10/05/95	PASS	NMB
10/5/95	50922911		321.0	6.5					NMB
10/5/95	50922912		321.0	6.5					NMB
10/5/95	50922913		321.0	6.5					NMB
10/5/95	50922914		321.0	6.5					NMB
10/5/95	50922915		321.0	6.5					NMB
10/5/95	50922916		321.0	6.5	YES	YES	10/05/95	PASS	NMB
10/5/95	50922917		321.0	6.5					NMB
10/5/95	50922918		321.0	6.5					NMB
10/5/95	50922919		321.0	6.5					NMB
10/5/95	50923911		321.0	6.5	YES	YES	10/05/95	PASS	NMB
10/5/95	50923912		321.0	6.5					NMB
10/5/95	50923913		321.0	6.5					NMB
10/5/95	50923914		321.0	6.5					NMB
10/5/95	50923915		321.0	6.5					NMB
10/5/95	50923916		321.0	6.5					NMB
10/5/95	50923917		321.0	6.5	YES	YES	10/05/95	PASS	NMB
10/5/95	50923919		321.0	6.5					NMB
10/5/95	50923920		321.0	6.5					NMB
10/5/95	50923921		321.0	6.5	YES	YES	10/05/95	PASS	NMB
10/5/95	50923922		321.0	6.5					NMB
10/5/95	50924905		321.0	6.5					NMB

INTERIRM REMEDIAL PROGRAM
HUNTINGTON/EAST NORTH LANDFILL
SUFFOLK COUNTY, NEW YORK

GEOCOMPOSITE MATERIAL INVENTORY LOG

DATE	ROLL NUMBER	LOT NUMBER	LENGTH (ft)	WIDTH (ft)	QC CERTS GEOTEXTILE	QC CERTS GEONET	DATE RECEIVED	REMARKS	QA ID
10/5/95	50924906		321.0	6.5					NMB
10/5/95	50924909		321.0	6.5					NMB
10/5/95	50924910		321.0	6.5					NMB
10/5/95	50924911		321.0	6.5					NMB
10/5/95	50924912		321.0	6.5					NMB
10/5/95	50924913		321.0	6.5					NMB
10/5/95	50924914		321.0	6.5					NMB
10/5/95	50924915		321.0	6.5					NMB
10/5/95	50924916		321.0	6.5					NMB
10/5/95	50925902		321.0	6.5					NMB
10/5/95	50925903		321.0	6.5					NMB
10/5/95	50925905		321.0	6.5					NMB
10/5/95	50925906		321.0	6.5					NMB
10/9/95	50826905		321.0	6.5	YES	YES	10/09/95	PASS B/L 51005009	NMB
10/9/95	50826906		321.0	6.5					NMB
10/9/95	50826907		321.0	6.5					NMB
10/9/95	50826909		321.0	6.5					NMB
10/9/95	50922904		321.0	6.5					NMB
10/9/95	50922905		321.0	6.5					NMB
10/9/95	50922906		321.0	6.5	YES	YES	10/09/95	PASS	NMB
10/9/95	50922907		321.0	6.5					NMB
10/9/95	50922925		321.0	6.5					NMB
10/9/95	50922928		321.0	6.5	YES	YES	10/09/95	PASS	NMB
10/9/95	50923901		321.0	6.5					NMB
10/9/95	50923902		321.0	6.5					NMB
10/9/95	50923903		321.0	6.5	YES	YES	10/09/95	PASS	NMB
10/9/95	50923904		321.0	6.5					NMB
10/9/95	50923905		321.0	6.5					NMB
10/9/95	50923906		321.0	6.5	YES	YES	10/09/95	PASS	NMB
10/9/95	50923907		321.0	6.5					NMB
10/9/95	50923908		321.0	6.5					NMB
10/9/95	50923909		321.0	6.5					NMB
10/9/95	50923910		321.0	6.5					NMB
10/9/95	50924901		321.0	6.5	YES	YES	10/09/95	PASS	NMB
10/9/95	50924902		321.0	6.5					NMB
10/9/95	50924903		321.0	6.5					NMB
10/9/95	50924921		321.0	6.5					NMB
10/9/95	50924922		321.0	6.5	YES	YES	10/09/95	PASS	NMB
10/9/95	50924923		321.0	6.5					NMB
10/9/95	50925901		321.0	6.5	YES	YES	10/09/95	PASS	NMB
10/9/95	51003901		321.0	6.5	YES	YES	10/09/95	PASS	NMB
10/9/95	51003902		321.0	6.5					NMB
10/9/95	51004901		321.0	6.5	YES	YES	10/09/95	PASS	NMB
10/9/95	51004902		321.0	6.5	YES	YES	10/09/95	PASS	NMB
10/9/95	51004903		321.0	6.5	YES	YES	10/09/95	PASS	NMB
10/9/95	51004906		321.0	6.5	YES	YES	10/09/95	PASS	NMB
10/9/95	51004907		321.0	6.5					NMB
10/9/95	51004908		321.0	6.5					NMB
10/9/95	51004909		3.0	6.5					NMB
10/9/95	51004910		321.0	6.5	YES	YES	10/09/95	PASS	NMB
10/16/95	50801904		321.0	6.5				B/L	DWW
10/16/95	50904014		321.0	6.5					DW
10/16/95	50919901		321.0	6.5					DW
10/16/95	50922931		321.0	6.5					DW
10/16/95	51004911		321.0	6.5					DW
10/16/95	51004912		321.0	6.5					DW
10/16/95	51004914		321.0	6.5					DW

**INTERIM REMEDIAL PROGRAM
HUNTINGTON/EAST NORTH LANDFILL
SUFFOLK COUNTY, NEW YORK**

GEOCOMPOSITE MATERIAL INVENTORY LOG

DATE	ROLL NUMBER	LOT NUMBER	LENGTH (ft)	WIDTH (ft)	QC CERTS GEOTEXTILE	QC CERTS GEONET	DATE RECEIVED	REMARKS	QA ID
10/16/95	51004915		321.0	6.5	YES	YES	10/16/95	PASS	DW
10/16/95	51004917		321.0	6.5	YES	YES	10/16/95	PASS	DW
10/16/95	51004918		321.0	6.5					DW
10/16/95	51004919		321.0	6.5					DW
10/16/95	51004920		321.0	6.5					DW
10/16/95	51004921		321.0	6.5	YES	YES	10/16/95	PASS	DW
10/16/95	51004922		321.0	6.5					DW
10/16/95	51005901		321.0	6.5					DW
10/16/95	51005902		321.0	6.5	YES	YES	10/16/95	PASS	DW
10/16/95	51005902		321.0	6.5					DW
10/16/95	51005903		321.0	6.5					DW
10/16/95	51005904		321.0	6.5					DW
10/16/95	51005905		321.0	6.5					DW
10/16/95	51005906		321.0	6.5	YES	YES	10/16/95	PASS	DW
10/16/95	51005907		321.0	6.5					DW
10/16/95	51005908		321.0	6.5					DW
10/16/95	51005911		321.0	6.5					DW
10/16/95	51005912		321.0	6.5	YES	YES	10/16/95	PASS	DW
10/16/95	51005913		321.0	6.5					DW
10/16/95	51005914		321.0	6.5					DW
10/16/95	51005916		321.0	6.5					DW
10/16/95	51005917		321.0	6.5					DW
10/16/95	51005918		321.0	6.5	YES	YES	10/16/95	PASS	DW
10/16/95	51005919		321.0	6.5					DW
10/16/95	51011901		321.0	6.5	YES	YES	10/16/95	PASS	DW
10/16/95	51011902		321.0	6.5					DW
10/16/95	51011903		321.0	6.5	YES	YES	10/16/95	PASS	DW
10/16/95	51011904		321.0	6.5					DW
10/16/95	51011905		321.0	6.5					DW
10/16/95	51011907		321.0	6.5	YES	YES	10/16/95	PASS	DW
10/16/95	51011908		321.0	6.5	YES	YES	10/16/95	PASS	DW
10/20/95	50607902		321.0	6.5				B/L 51019001	NMB
10/20/95	50904926		321.0	6.5					NMB
10/20/95	51005910		321.0	6.5	YES	YES	10/20/95	PASS	NMB
10/20/95	51006901		321.0	6.5	YES	YES	10/20/95	PASS	NMB
10/20/95	51006903		321.0	6.5	YES	YES	10/20/95	PASS	NMB
10/20/95	51006904		321.0	6.5					NMB
10/20/95	51006906		321.0	6.5	YES	YES	10/20/95	PASS	NMB
10/20/95	51006907		321.0	6.5					NMB
10/20/95	51012901		321.0	6.5	YES	YES	10/20/95	PASS	NMB
10/20/95	51012902		321.0	6.5	YES	YES	10/20/95	PASS	NMB
10/20/95	51012903		321.0	6.5	YES	YES	10/20/95	PASS	NMB
10/20/95	51012904		321.0	6.5	YES	YES	10/20/95	PASS	NMB
10/20/95	51012905		321.0	6.5	YES	YES	10/20/95	PASS	NMB
10/20/95	51013901		321.0	6.5	YES	YES	10/20/95	PASS	NMB
10/20/95	51013902		321.0	6.5					NMB
10/20/95	51013903		321.0	6.5					NMB
10/20/95	51013904		321.0	6.5	YES	YES	10/20/95	PASS	NMB
10/20/95	51013905		321.0	6.5					NMB
10/20/95	51013906		321.0	6.5					NMB
10/20/95	51013907		321.0	6.5	YES	YES	10/20/95	PASS	NMB
10/20/95	51013908		321.0	6.5					NMB
10/20/95	51013909		321.0	6.5					NMB
10/20/95	51013910		321.0	6.5	YES	YES	10/20/95	PASS	NMB
10/20/95	51013911		321.0	6.5					NMB
10/20/95	51013912		321.0	6.5					NMB
10/20/95	51013913		321.0	6.5	YES	YES	10/20/95	PASS	NMB

**INTERRIM REMEDIAL PROGRAM
HUNTINGTONEAST NORTH LANDFILL
SUFFOLK COUNTY, NEW YORK**

GEOCOMPOSITE MATERIAL INVENTORY LOG

DATE	ROLL NUMBER	LOT NUMBER	LENGTH (ft)	WIDTH (ft)	QC CERTS GEOTEXTILE	QC CERTS GEONET	DATE RECEIVED	REMARKS	QA ID
10/20/95	51013914		321.0	6.5					NMB
10/20/95	51014901		321.0	6.5	YES	YES	10/20/95	PASS	NMB
10/20/95	51014903		321.0	6.5	YES	YES	10/20/95	PASS	NMB
10/20/95	51014904		321.0	6.5	YES	YES	10/20/95	PASS	NMB
10/25/95	05C	50409	225.0	14.0	YES	YES	11/14/95	PASS B/L 60065	NMB
10/25/95	05D	50409	225.0	14.0					NMB
10/25/95	07A	50408	225.0	14.0					NMB
10/25/95	07B	50408	225.0	14.0	YES	YES	11/14/95	PASS	NMB
10/25/95	07C	50408	225.0	14.0					NMB
10/25/95	07D	50408	225.0	14.0					NMB
10/25/95	07A	50411	225.0	14.0					NMB
10/25/95	07B	50411	225.0	14.0					NMB
10/25/95	07C	50411	225.0	14.0	YES	YES	11/14/95	PASS	NMB
10/25/95	07D	50411	225.0	14.0					NMB
10/25/95	01A	50412	225.0	14.0	YES	YES	11/14/95	PASS	NMB
10/25/95	01B	50412	225.0	14.0					NMB
10/25/95	06A	50412	225.0	14.0					NMB
10/25/95	06B	50412	225.0	14.0					NMB
10/25/95	06C	50412	225.0	14.0					NMB
10/25/95	06D	50412	225.0	14.0					NMB
10/25/95	07A	50412	225.0	14.0					NMB
10/25/95	07B	50412	225.0	14.0					NMB
10/25/95	07C	50412	225.0	14.0					NMB
10/25/95	07D	50412	225.0	14.0					NMB
10/25/95	08A	50412	225.0	14.0	YES	YES	11/14/95	PASS	NMB
10/25/95	08B	50412	225.0	14.0					NMB
10/25/95	08C	50412	225.0	14.0					NMB
10/25/95	08D	50412	225.0	14.0				B/L 60063	NMB
10/26/95	06A	50409	225.0	14.0	YES	YES	11/14/95	PASS	NMB
10/26/95	06B	50409	225.0	14.0					NMB
10/26/95	06C	50409	225.0	14.0					NMB
10/26/95	01C	50412	225.0	14.0	YES	YES	11/14/95	PASS	NMB
10/26/95	01D	50412	225.0	14.0					NMB
10/26/95	04A	50412	225.0	14.0					NMB
10/26/95	04B	50412	225.0	14.0					NMB
10/26/95	04C	50412	225.0	14.0					NMB
10/26/95	04D	50412	225.0	14.0					NMB
10/26/95	05A	50412	225.0	14.0	YES	YES	11/14/95	PASS	NMB
10/26/95	05B	50412	225.0	14.0					NMB
10/26/95	05C	50412	225.0	14.0					NMB
10/26/95	09A	50412	225.0	14.0					NMB
10/26/95	09B	50412	225.0	14.0					NMB
10/26/95	09C	50412	225.0	14.0					NMB
10/26/95	09D	50412	225.0	14.0					NMB
10/26/95	10A	50412	225.0	14.0					NMB
10/26/95	10B	50412	225.0	14.0					NMB
10/26/95	10C	50412	225.0	14.0					NMB
10/26/95	10D	50412	225.0	14.0					NMB
10/26/95	01A	50413	225.0	14.0	YES	YES	11/14/95	PASS	NMB
10/26/95	01B	50413	225.0	14.0					NMB
10/26/95	01C	50413	225.0	14.0					NMB
10/26/95	01D	50413	225.0	14.0					NMB
10/27/95	03B	50408	225.0	14.0					DWW
10/27/95	03C	50408	225.0	14.0				B/L 60067	DW
10/27/95	03D	50408	225.0	14.0					DW
10/27/95	04B	50408	225.0	14.0					DW
10/27/95	04D	50408	225.0	14.0					DW

**INTERIM REMEDIAL PROGRAM
HUNTINGTON/EAST NORTH LANDFILL
SUFFOLK COUNTY, NEW YORK**

GEOCOMPOSITE MATERIAL INVENTORY LOG

DATE	ROLL NUMBER	LOT NUMBER	LENGTH (ft)	WIDTH (ft)	QC CERTS GEOTEXTILE	QC CERTS GEONET	DATE RECEIVED	REMARKS	QA ID
10/27/95	05A	50409	225.0	14.0	YES	YES	11/14/95	PASS	DW
10/27/95	05B	50409	225.0	14.0					DW
10/27/95	09A	50409	225.0	14.0					DW
10/27/95	09B	50409	225.0	14.0					DW
10/27/95	09C	50409	225.0	14.0					DW
10/27/95	09D	50409	225.0	14.0					DW
10/27/95	03A	50411	225.0	14.0					DW
10/27/95	03B	50411	225.0	14.0					DW
10/27/95	03C	50411	225.0	14.0					DW
10/27/95	03D	50411	225.0	14.0					DW
10/27/95	02A	50412	225.0	14.0	YES	YES	11/14/95	PASS	DW
10/27/95	02B	50412	225.0	14.0					DW
10/27/95	02C	50412	225.0	14.0					DW
10/27/95	02D	50412	225.0	14.0					DW
10/27/95	03A	50412	225.0	14.0					DW
10/27/95	03B	50412	225.0	14.0					DW
10/27/95	03C	50412	225.0	14.0					DW
10/27/95	03D	50412	225.0	14.0					DW
10/30/95	04A	50408	225.0	14.0	YES	YES	11/14/95	PASS B/L 60134	DW
10/30/95	04C	50408	225.0	14.0					DW
10/30/95	09A	50408	225.0	14.0					DW
10/30/95	09B	50408	225.0	14.0					DW
10/30/95	09C	50408	225.0	14.0					DW
10/30/95	09D	50408	225.0	14.0					DW
10/30/95	06D	50409	225.0	14.0					DW
10/30/95	01A	50411	225.0	14.0	YES	YES	11/14/95	PASS	DW
10/30/95	01B	50411	225.0	14.0					DW
10/30/95	01C	50411	225.0	14.0					DW
10/30/95	01D	50411	225.0	14.0					DW
10/30/95	09A	50411	225.0	14.0					DW
10/30/95	09B	50411	225.0	14.0					DW
10/30/95	09C	50411	225.0	14.0					DW
10/30/95	09D	50411	225.0	14.0					DW
10/30/95	11A	50412	225.0	14.0					DW
10/30/95	11B	50412	225.0	14.0					DW
10/30/95	11C	50412	225.0	14.0					DW
10/30/95	11D	50412	225.0	14.0					DW
10/30/95	05D	50412	225.0	14.0					DW
10/30/95	50607903		320.0	6.5	YES	YES	10/30/95	PASS B/L 51026013	DW
10/30/95	50622903		320.0	6.5					DW
10/30/95	50730904		320.0	6.5					DW
10/30/95	50905904		320.0	6.5					DW
10/30/95	51023901		320.0	6.5	YES	YES	10/30/95	PASS	DW
10/30/95	51023902		320.0	6.5	YES	YES	10/30/95	PASS	DW
10/30/95	51024903		320.0	6.5	YES	YES	10/30/95	PASS	DW
10/30/95	51024904		320.0	6.5					DW
10/30/95	51024907		320.0	6.5	YES	YES	10/30/95	PASS	DW
10/30/95	51024909		320.0	6.5					DW
10/30/95	51024910		320.0	6.5					DW
10/30/95	51024911		320.0	6.5	YES	YES	10/30/95	PASS	DW
10/30/95	51025901		320.0	6.5	YES	YES	10/30/95	PASS	DW
10/30/95	51025902		320.0	6.5					DW
10/30/95	51025903		320.0	6.5	YES	YES	10/30/95	PASS	DW
10/30/95	51025904		320.0	6.5					DW
10/30/95	51025905		320.0	6.5					DW
10/30/95	51025906		320.0	6.5					DW
10/30/95	51025907		320.0	6.5	YES	YES	10/30/95	PASS	DW

**INTERRIM REMEDIAL PROGRAM
HUNTINGTON/EAST NORTH LANDFILL
SUFFOLK COUNTY, NEW YORK**

GEOCOMPOSITE MATERIAL INVENTORY LOG

DATE	ROLL NUMBER	LOT NUMBER	LENGTH (ft)	WIDTH (ft)	QC CERTS GEOTEXTILE	QC CERTS GEONET	DATE RECEIVED	REMARKS	QA ID
10/30/95	51025908		320.0	6.5					DW
10/30/95	51025909		320.0	6.5					DW
10/30/95	51025910		320.0	6.5					DW
10/30/95	51025911		320.0	6.5	YES	YES	10/30/95	PASS	DW
10/30/95	51025912		320.0	6.5					DW
10/30/95	51025913		320.0	6.5					DW
10/30/95	51025915		320.0	6.5	YES	YES	10/30/95	PASS	DW
10/30/95	51025916		320.0	6.5					DW
10/30/95	51025917		320.0	6.5					DW
10/30/95	51025918		320.0	6.5					DW
10/30/95	51025919		320.0	6.5	YES	YES	10/30/95	PASS	DW
10/30/95	51025920		320.0	6.5					DW
10/30/95	51025921		320.0	6.5					DW
10/30/95	51025922		320.0	6.5					DW
10/30/95	51025923		320.0	6.5	YES	YES	10/30/95	PASS	DW
10/30/95	51025925		320.0	6.5					DW
10/30/95	51025926		320.0	6.5					DW
10/30/95	51025927		320.0	6.5	YES	YES	10/30/95	PASS	DW
11/1/95	50410	08A	225.0	14.0				B/L 60196	DW
11/1/95	50410	08B	225.0	14.0					DW
11/1/95	50410	08C	225.0	14.0					DW
11/1/95	50410	08D	225.0	14.0					DW
11/1/95	50410	10A	225.0	14.0	YES	YES	11/14/95	PASS	DW
11/1/95	50410	10B	225.0	14.0					DW
11/1/95	50410	10C	225.0	14.0					DW
11/1/95	50410	10D	225.0	14.0					DW
11/1/95	50411	02A	225.0	14.0					DW
11/1/95	50411	02B	225.0	14.0					DW
11/1/95	50411	02C	225.0	14.0					DW
11/1/95	50411	02D	225.0	14.0					DW
11/1/95	50411	04A	225.0	14.0					DW
11/1/95	50411	04B	225.0	14.0					DW
11/1/95	50411	04C	225.0	14.0					DW
11/1/95	50411	04D	225.0	14.0					DW
11/1/95	50411	06A	225.0	14.0					DW
11/1/95	50411	06B	225.0	14.0					DW
11/1/95	50411	06C	225.0	14.0					DW
11/1/95	50411	06D	225.0	14.0					DW
11/1/95	50411	08A	225.0	14.0					DW
11/1/95	50411	08B	225.0	14.0					DW
11/1/95	50411	08C	225.0	14.0					DW
11/1/95	50411	08D	225.0	14.0					DW
11/1/95	51026901		321.0	6.5	YES	YES	11/01/95	PASS B/L 51030005	DW
11/1/95	51026902		321.0	6.5					DW
11/1/95	51026903		321.0	6.5					DW
11/1/95	51026904		321.0	6.5	YES	YES	11/01/95	PASS	DW
11/1/95	51026905		321.0	6.5					DW
11/1/95	51026906		321.0	6.5					DW
11/1/95	51026907		321.0	6.5	YES	YES	11/01/95	PASS	DW
11/1/95	51026908		321.0	6.5					DW
11/1/95	51026909		321.0	6.5					DW
11/1/95	51026910		321.0	6.5	YES	YES	11/01/95	PASS	DW
11/1/95	51026911		321.0	6.5					DW
11/1/95	51026912		321.0	6.5					DW
11/1/95	51026913		321.0	6.5	YES	YES	11/01/95	PASS	DW
11/1/95	51026914		321.0	6.5					DW
11/1/95	51026915		321.0	6.5					DW

**INTERRIM REMEDIAL PROGRAM
HUNTINGTON/EAST NORTH LANDFILL
SUFFOLK COUNTY, NEW YORK**

GEOCOMPOSITE MATERIAL INVENTORY LOG

DATE	ROLL NUMBER	LOT NUMBER	LENGTH (ft)	WIDTH (ft)	QC CERTS GEOTEXTILE	QC CERTS GEONET	DATE RECEIVED	REMARKS	QA ID
11/1/95	51026916		321.0	6.5					DW
11/1/95	51026917		321.0	6.5					DW
11/1/95	51026918		321.0	6.5	YES	YES	11/01/95	PASS	DW
11/1/95	51026919		321.0	6.5					DW
11/1/95	51026920		321.0	6.5					DW
11/1/95	51026921		321.0	6.5					DW
11/1/95	51026922		321.0	6.5					DW
11/1/95	51026923		321.0	6.5	YES	YES	11/01/95	PASS	DW
11/1/95	51026924		321.0	6.5					DW
11/1/95	51026925		321.0	6.5					DW
11/1/95	51026926		321.0	6.5	YES	YES	11/01/95	PASS	DW
11/1/95	51027901		321.0	6.5					DW
11/1/95	51027902		321.0	6.5	YES	YES	11/01/95	PASS	DW
11/1/95	51027903		321.0	6.5					DW
11/1/95	51027904		321.0	6.5					DW
11/1/95	51027907		321.0	6.5					DW
11/1/95	51027908		321.0	6.5					DW
11/1/95	51027910		321.0	6.5					DW
11/1/95	51027911		321.0	6.5					DW
11/1/95	51027912		321.0	6.5	YES	YES	11/01/95	PASS	DW
11/1/95	51027913		321.0	6.5					DW
11/1/95	51027915		321.0	6.5	YES	YES	11/01/95	PASS	DW
11/1/95	50408	02C	225.0	14.0				B/L 60198	DW
11/1/95	50408	02D	225.0	14.0					DW
11/1/95	50409	04A	225.0	14.0	YES	YES	11/14/95		DW
11/1/95	50409	04B	225.0	14.0					DW
11/1/95	50410	02A	225.0	14.0					DW
11/1/95	50410	02B	225.0	14.0					DW
11/1/95	50410	02C	225.0	14.0					DW
11/1/95	50410	02D	225.0	14.0					DW
11/1/95	50410	03A	225.0	14.0					DW
11/1/95	50410	03B	225.0	14.0					DW
11/1/95	50410	03C	225.0	14.0					DW
11/1/95	50410	03D	225.0	14.0					DW
11/1/95	50410	06A	225.0	14.0					DW
11/1/95	50410	06B	225.0	14.0					DW
11/1/95	50410	06C	225.0	14.0					DW
11/1/95	50410	06D	225.0	14.0					DW
11/1/95	50410	07A	225.0	14.0	YES	YES	11/14/95		DW
11/1/95	50410	07B	225.0	14.0					DW
11/1/95	50410	07C	225.0	14.0					DW
11/1/95	50410	07D	225.0	14.0					DW
11/1/95	50411	10A	225.0	14.0					DW
11/1/95	50411	10B	225.0	14.0					DW
11/1/95	50411	10C	225.0	14.0					DW
11/1/95	50411	10D	225.0	14.0					DW
11/2/95	50409	01A	225.0	14.0	YES	YES	11/14/95	B/L 60200	DW
11/2/95	50409	01B	225.0	14.0					DW
11/2/95	50409	01C	225.0	14.0					DW
11/2/95	50409	01D	225.0	14.0					DW
11/2/95	50409	03A	225.0	14.0	YES	YES	11/14/95		DW
11/2/95	50409	03B	225.0	14.0					DW
11/2/95	50409	03C	225.0	14.0					DW
11/2/95	50409	03D	225.0	14.0					DW
11/2/95	50409	07A	225.0	14.0					DW
11/2/95	50409	07B	225.0	14.0					DW
11/2/95	50409	07C	225.0	14.0					DW

**INTERRIM REMEDIAL PROGRAM
HUNTINGTON/EAST NORTH LANDFILL
SUFFOLK COUNTY, NEW YORK**

GEOCOMPOSITE MATERIAL INVENTORY LOG

DATE	ROLL NUMBER	LOT NUMBER	LENGTH (ft)	WIDTH (ft)	QC CERTS GEOTEXTILE	QC CERTS GEONET	DATE RECEIVED	REMARKS	QA ID
11/2/95	50409	07D	225.0	14.0					DW
11/2/95	50409	08A	225.0	14.0					DW
11/2/95	50409	08B	225.0	14.0					DW
11/2/95	50409	08C	225.0	14.0					DW
11/2/95	50409	08D	225.0	14.0					DW
11/2/95	50409	10A	225.0	14.0					DW
11/2/95	50409	10B	225.0	14.0					DW
11/2/95	50409	10C	225.0	14.0					DW
11/2/95	50409	10D	225.0	14.0					DW
11/2/95	50410	04A	225.0	14.0	YES	YES	11/14/95		DW
11/2/95	50410	04B	225.0	14.0					DW
11/2/95	50410	04C	225.0	14.0					DW
11/2/95	50410	05D	225.0	14.0	YES	YES	11/14/95		DW
11/6/95	51029901		320.0	6.5	YES	YES	11/06/95	PASS B/L51103002	DW
11/6/95	51029902		320.0	6.5					DW
11/6/95	51029903		320.0	6.5	YES	YES	11/06/95	PASS	DW
11/6/95	51029904		320.0	6.5					DW
11/6/95	51029905		320.0	6.5					DW
11/6/95	51029908		320.0	6.5					DW
11/6/95	51029911		320.0	6.5	YES	YES	11/06/95	PASS	DW
11/6/95	51029912		320.0	6.5					DW
11/6/95	51029913		320.0	6.5					DW
11/6/95	51029914		320.0	6.5					DW
11/6/95	51030911		320.0	6.5					JJP
11/6/95	51030919		320.0	6.5					JJP
11/6/95	51030920		320.0	6.5	YES	YES	11/06/95	PASS	JJP
11/6/95	51006902		320.0	6.5				B/L 51102001	JJP
11/6/95	51027905		320.0	6.5					JJP
11/6/95	51027906		320.0	6.5	YES	YES	11/06/95	PASS	JJP
11/6/95	51027909		320.0	6.5	YES	YES	11/06/95	PASS	JJP
									DW
11/6/95	51027914		320.0	6.5					DW
11/6/95	51027916		320.0	6.5					DW
11/6/95	51027917		320.0	6.5					DW
11/6/95	51027918		320.0	6.5					DW
11/6/95	51027920		320.0	6.5					DW
11/6/95	51027922		320.0	6.5					DW
11/6/95	51028901		320.0	6.5	YES	YES	11/06/95	PASS	DW
11/6/95	51028903		320.0	6.5					DW
11/6/95	51028904		320.0	6.5	YES	YES	11/06/95	PASS	DW
11/6/95	51028905		320.0	6.5					DW
11/6/95	51028906		320.0	6.5					DW
11/6/95	51028907		320.0	6.5					DW
11/6/95	51028908		320.0	6.5					DW
11/6/95	51028909		320.0	6.5	YES	YES	11/06/95	PASS	DW
11/6/95	51028910		320.0	6.5					DW
11/6/95	51028911		320.0	6.5					DW
11/6/95	51028912		320.0	6.5	YES	YES	11/06/95	PASS	DW
11/6/95	51028913		320.0	6.5					DW
11/6/95	51028914		320.0	6.5					DW
11/6/95	51028915		320.0	6.5	YES	YES	11/06/95	PASS	DW
11/6/95	51028916		320.0	6.5					DW
11/6/95	51028917		320.0	6.5					DW
11/6/95	51028918		320.0	6.5					DW
11/6/95	51028919		320.0	6.5	YES	YES	11/06/95	PASS	DW
11/6/95	51028920		320.0	6.5	YES	YES	11/06/95	PASS	DW
11/6/95	51028922		320.0	6.5					DW

**INTERRIM REMEDIAL PROGRAM
HUNTINGTON/EAST NORTH LANDFILL
SUFFOLK COUNTY, NEW YORK**

GEOCOMPOSITE MATERIAL INVENTORY LOG

DATE	ROLL NUMBER	LOT NUMBER	LENGTH (ft)	WIDTH (ft)	QC CERTS GEOTEXTILE	QC CERTS GEONET	DATE RECEIVED	REMARKS	QA ID
11/6/95	51028923		320.0	6.5					DW
11/6/95	51028925		320.0	6.5					DW
11/6/95	51028926		320.0	6.5					DW
11/6/95	51029906		320.0	6.5	YES	YES	11/06/95	PASS	DW
11/6/95	51029907		320.0	6.5					DW
11/6/95	51029909		320.0	6.5					DW
11/6/95	51029910		320.0	6.5					DW
11/6/95	50408	02A	225.0	14.0				B/L 60236	DW
11/6/95	50408	02B	225.0	14.0					DW
11/6/95	50410	01A	225.0	14.0	YES	YES	11/14/95		DW
11/6/95	50410	01B	225.0	14.0					DW
11/6/95	50410	01C	225.0	14.0					DW
11/6/95	50410	01D	225.0	14.0					DW
11/6/95	50410	04D	225.0	14.0					DW
11/6/95	50410	07E	225.0	14.0					DW
11/6/95	50408	05A	225.0	14.0					DW
11/6/95	50408	05B	225.0	14.0					DW
11/6/95	50408	05C	225.0	14.0					DW
11/6/95	50408	05D	225.0	14.0	YES	YES	11/14/95		DW
11/6/95	50408	06A	225.0	14.0					DW
11/6/95	50408	06C	225.0	14.0					DW
11/6/95	50408	06D	225.0	14.0					DW
11/6/95	50411	05C	225.0	14.0	YES	YES	11/14/95		DW
11/17/95	50409	04D	225.0	14.0	YES	YES	11/17/95	PASS B/L 22134	DWW
11/17/95	50410	05B	225.0	14.0	YES	YES	11/17/95	PASS	DWW

SUB APPENDIX M-2

GEOMEMBRANE



GEO SYNTEC CONSULTANTS



TOWN OF HUNTINGTON

MATERIAL INVENTORY

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK

PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF
LANDFILL CLOSURE

DATE: 28 day 3 month 95 year

PRODUCT TYPE: 40 MIL HDT

MANUFACTURER: GUNDEL

INVENTORY DATE (day/mo)	BATCH / ROLL NO.	Q.A. CONFORMANCE			Q.C. DOCUMENTS			QA ID
		DATE SAMPLED (day/mo)	SAMPLE NO.	PASS/ FAIL	DATE RECEIVED (day/mo)	DATE CHECKED (day/mo)	PASS/ FAIL	
B/L 43484	28/3 110394 / 05027416	5 APRIL	VL-1		3/4	3/4		
	28/3 " 05027417				3/4	3/4		
	24/4 042095 / 3032048				9/5	9/5		m2
	" " / 3032049				9/5	9/5		m2
	" " / 3032050	28 April	VL-2		9/5	9/5		GD
	" " / 3032051				9/5	9/5		AD
	" 040195 / 5029745				9/5	9/5		m2
	" 040295 / 5029757				9/5	9/5		m2
B/L 43861	" " / 5029761				9/5	9/5		m2
	" " / 5029762				9/5	9/5		m2
	" " / 5029763				9/5	9/5		GD
	" " / 5029764				9/5	9/5		m2
	" 040495 / 5029782	28 April	VL-3		9/5	9/5		GD
	" " / 5029784				9/5	9/5		m2
B/L 43912	1/5 042195 / 05030044				9/5	9/5	P	m2
	" 042495 / 05030090				9/5	9/5	P	m2
	" " / 05030091				9/5	9/5	P	m2
	" " / 05030092				9/5	9/5	P	m2
	" " / 05030093				9/5	9/5	P	m2
	" " / 05030094				9/5	9/5	P	m2
	" 042595 / 05030095				9/5	9/5	P	m2
	" " / 05030100				9/5	9/5	P	m2
	" " / 05030101				9/5	9/5	P	m2

AVG. ROLL WIDTH: 22.5'

AVG. ROLL LENGTH: 600'

NUMBER OF ROLLS ABOVE: 23

ACCUMULATIVE NUMBER OF ROLLS: 23

CUMULATIVE AREA: 310500 Ft² TOTAL NUMBER OF CONFORMANCE TESTS: 5



GEOSYNTEC CONSULTANTS



TOWN OF HUNTINGTON

MATERIAL INVENTORY

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK

PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF
LANDFILL CLOSURE

DATE: 1 day 5 month 95 year

PRODUCT TYPE: 40 ml VLDPE

MANUFACTURER: Gundle

INVENTORY DATE (day/mo)	BATCH / ROLL NO.	Q.A. CONFORMANCE			Q.C. DOCUMENTS			QA ID
		DATE SAMPLED (day/mo)	SAMPLE NO.	PASS/ FAIL	DATE RECEIVED (day/mo)	DATE CHECKED (day/mo)	PASS/ FAIL	
1/5	042595 / 05030102 ✓				9/5	9/5	P	m2
↓	" / 05030103 ✓				9/5	9/5	P	m2
↓	" / 05030104 ✓				9/5	9/5	P	m2
2/5	046195 / 05029699							m2
↓	040195 / 05029744 ✓				9/5	9/5		m2
↓	040195 / 05029747 ✓				9/5	9/5	P	m2
↓	" / 05029749 ✓				9/5	9/5	P	m2
↓	" / 05029750 ✓				9/5	9/5	P	m2
↓	040295 / 05029752 ✓				9/5	9/5	P	m2
↓	040495 / 05029783 ✓				9/5	9/5	P	m2
↓	042595 / 05030096 ✓				9/5	9/5	P	m2
↓	042595 / 05030097 ✓				9/5	9/5	P	m2
↓	" / 05030099 ✓				9/5	9/5	P	m2
↓	" / 05030105 ✓				9/5	9/5	P	m2
↓	" / 05030106 ✓				9/5	9/5	P	m2
15/5	05030185 ✓				14/7	14/7	P	m2
↓	05030190 ✓				"	"	P	m2
↓	05030194 ✓				"	"	P	m2
↓	05030195 ✓				"	"	P	m2
↓	05030196 ✓				"	"	P	m2
↓	05030197 ✓				"	"	P	m2
↓	05030198 ✓				"	"	P	m2
↓	05030199 ✓				14/7	14/7	P	m2

AVG. ROLL WIDTH: 22.5

AVG. ROLL LENGTH: 600

NUMBER OF ROLLS ABOVE: 23

ACCUMULATIVE NUMBER OF ROLLS: 46

CUMULATIVE AREA: 621000 FT²

TOTAL NUMBER OF CONFORMANCE TESTS: -



GEOSYNTEC CONSULTANTS



TOWN OF HUNTINGTON

MATERIAL INVENTORY

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK

PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE

DATE: 15 day 5 month 95 year

PRODUCT TYPE: 40 mil VLDPE MANUFACTURER: Gundel

INVENTORY DATE (day/mo)	BATCH / ROLL NO.	Q.A. CONFORMANCE			Q.C. DOCUMENTS			QA ID
		DATE SAMPLED (day/mo)	SAMPLE NO.	PASS/FAIL	DATE RECEIVED (day/mo)	DATE CHECKED (day/mo)	PASS/FAIL	
15/5 ↓	05030200 ✓				14/7	14/7	P	m2
	05030201 ✓				"	"	P	m2
	05030204 ✓				"	"	P	m2
	05030205 ✓				14/7	14/7	P	m2
16/5 ↓	043095 / 05030173 ✓				23/5	23/5	P	m2
	050195 / 05030181 ✓						P	m2
	05030182 ✓						P	m2
	05030183 ✓						P	m2
	05030184 ✓						P	m2
	05030186 ✓						P	m2
	05030191 ✓						P	m2
	05030192 ✓						P	m2
	05030193 ✓						P	m2
	05030203 ✓						P	m2
	05030206 ✓						P	m2
5/6 ↓	042695 / 05030121 ✓				16/6	16/6	P	m2
	05030122 ✓						P	m2
	05030123 ✓						P	m2
	042795 / 05030128 ✓						P	m2
	042895 / 05030143 ✓						P	m2
	05030144 ✓						P	m2
	05030145 ✓						P	m2
	05030146 ✓						P	m2

AVG. ROLL WIDTH: 22.5 AVG. ROLL LENGTH: 600'

NUMBER OF ROLLS ABOVE: 23 ACCUMULATIVE NUMBER OF ROLLS: 69

CUMULATIVE AREA: 931,500 TOTAL NUMBER OF CONFORMANCE TESTS: ~



GEO SYNTEC CONSULTANTS



TOWN OF HUNTINGTON

MATERIAL INVENTORY

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK

PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE

DATE: 05 day 06 month 95 year

PRODUCT TYPE: 40 mil Textured VLNPE MANUFACTURER: Gundie

INVENTORY DATE (day/mo)	BATCH / ROLL NO.	Q.A. CONFORMANCE			Q.C. DOCUMENTS			QA ID
		DATE SAMPLED (day/mo)	SAMPLE NO.	PASS/FAIL	DATE RECEIVED (day/mo)	DATE CHECKED (day/mo)	PASS/FAIL	
05/06 ↓ #44478	042895 / 05030147 ✓				16/6	16/6	P	M2
	↓ 05030148 ✓						P	M2
	042995 / 05030154 ✓						P	M2
	↓ 05030155 ✓						P	M2
06/06 ↓ #44495	061795 / 03033225 ✓				30/6	30/6	P	DW
	061895 / 03033237 ✓						P	
	" / 03033240 ✓						P	
	" / 03033245 ✓						P	
	061995 / 03033260 ✓						P	
	062095 / 03033264 ✓						P	
	" / 03033272 ✓						P	
	" / 03033273 ✓						P	
	062195 / 03033282 ✓						P	
	" / 03033283 ✓						P	
27/6	" / 03033289 ✓						P	
	062195 / 03033290 ✓				30/6	30/6	P	DW
28/6 ↓ #44423	061595 / 03033197 ✓				30/6	30/6	P	DW
	↓ 03033198 ✓						P	
	061695 / 03033204 ✓						P	
	061795 / 03033216 ✓						P	
	↓ 03033217 ✓						P	
	061995 / 03033256 ✓						P	
061995	03033257 ✓				30/6	30/6	P	DW

AVG. ROLL WIDTH: 22.5

AVG. ROLL LENGTH: 600

NUMBER OF ROLLS ABOVE: 23

ACCUMULATIVE NUMBER OF ROLLS: 92

CUMULATIVE AREA: 1242,000

TOTAL NUMBER OF CONFORMANCE TESTS: -



GEOSYNTEC CONSULTANTS



TOWN OF HUNTINGTON

MATERIAL INVENTORY

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK

PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE

DATE: 28 day 6 month 95 year

PRODUCT TYPE: 40 mil VLT

MANUFACTURER: GUNDEL

INVENTORY DATE (day/mo)	BATCH / ROLL NO.	Q.A. CONFORMANCE			Q.C. DOCUMENTS			QA ID
		DATE SAMPLED (day/mo)	SAMPLE NO.	PASS/FAIL	DATE RECEIVED (day/mo)	DATE CHECKED (day/mo)	PASS/FAIL	
28 / 6	062895 / 03033277 ✓				30 / 6	30 / 6	P	DW
"	062195 / 03033278 ✓				30 / 6	30 / 6	P	"
"	" / 03033281 ✓				30 / 6	30 / 6	P	"
28 / 6	062895 / 03033283 ✓				30 / 6	30 / 6	P	DW
3 / 7	061895 / 03033213				7 / 7	7 / 7	P	DW
"	" / 03033223				7 / 7	7 / 7	P	"
"	" / 03033238 ✓				7 / 7	7 / 7	P	"
"	" / 03033239 ✓				7 / 7	7 / 7	P	"
"	061995 / 03033248 ✓				7 / 7	7 / 7	P	"
"	" / 03033249 ✓				7 / 7	7 / 7	P	"
"	" / 03033250 ✓				7 / 7	7 / 7	P	"
"	" / 03033255 ✓				7 / 7	7 / 7	P	"
"	061995 / 03033258 ✓				7 / 7	7 / 7	P	"
"	062095 / 03033265 ✓				7 / 7	7 / 7	P	"
"	062095 / 03033266 ✓				7 / 7	7 / 7	P	"
3 / 7	062895 / 03033280 ✓				7 / 7	7 / 7	P	DW
1/7/95 @ 1,458,000 SF * NOTE Roll REMOVED (DO NOT USE) NOTE GUNDEL FAX CORRECTED REQUIS Pass SPECIFICATION 8/7/94								
216,000 SQ.FT.								

AVG. ROLL WIDTH: 22.5 AVG. ROLL LENGTH: 600
 NUMBER OF ROLLS ABOVE: 16 ACCUMULATIVE NUMBER OF ROLLS: 108
 CUMULATIVE AREA: 1,458,000 TOTAL NUMBER OF CONFORMANCE TESTS: 1

SHEET NO. 5 OF 9



GEOSYNTEC CONSULTANTS



TOWN OF HUNTINGTON

MATERIAL INVENTORY

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK

PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF
LANDFILL CLOSURE

DATE: 24 day July month 95 year

PRODUCT TYPE: 40 mil VLT.

MANUFACTURER: GUNDEL

INVENTORY DATE (day/mo)	BATCH / ROLL NO.	Q.A. CONFORMANCE			Q.C. DOCUMENTS			QA ID
		DATE SAMPLED (day/mo)	SAMPLE NO.	PASS/ FAIL	DATE RECEIVED (day/mo)	DATE CHECKED (day/mo)	PASS/ FAIL	
14 / 7	061795 / 03033220 ✓				7 / 7	8 / 7	P	DW
	" 03033222 ✓				7 / 7	8 / 7	P	DW
	" 03033223 ✓				7 / 7	8 / 7	P	DW
	" 03033226 ✓				7 / 7	8 / 7	P	DW
	061795 / 03033229 ✓				7 / 7	8 / 7	P	DW
	03033233 ✓				7 / 7	8 / 7	P	DW
	03033235 ✓				7 / 7	8 / 7	P	DW
	03033236 ✓				7 / 7	8 / 7	P	DW
	03033241 ✓				7 / 7	8 / 7	P	DW
	03033242 ✓				7 / 7	8 / 7	P	DW
	03033243 ✓				7 / 7	8 / 7	P	DW
14 / 7	03033244 ✓				7 / 7	8 / 7	P	DW
17 h	03033208 ✓				19 / 7	19 / 7	P	DW
	03033210 ✓				19 / 7	19 / 7	P	DW
	03033211 ✓				19 / 7	19 / 7	P	DW
	03033212 ✓				19 / 7	19 / 7	P	DW
	03033215 ✓				19 / 7	19 / 7	P	DW
	03033218 ✓				19 / 7	19 / 7	P	DW
	03033219 ✓				19 / 7	19 / 7	P	DW
	03033221 ✓				19 / 7	19 / 7	P	DW
	03033224 ✓				19 / 7	19 / 7	P	DW
	03033227 ✓				19 / 7	19 / 7	P	DW
17 h	03033228 ✓				19 / 7	19 / 7	P	DW
	total 310,500 SQ. FT.							

AVG. ROLL WIDTH: 22.5

AVG. ROLL LENGTH: 600

NUMBER OF ROLLS ABOVE: 23 ACCUMULATIVE NUMBER OF ROLLS: 131

CUMULATIVE AREA: 1,168,000 TOTAL NUMBER OF CONFORMANCE TESTS: —



GEO SYNTEC CONSULTANTS



TOWN OF HUNTINGTON

MATERIAL INVENTORY

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK

PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE

DATE: 16 day 8 month 95 year

PRODUCT TYPE: 40mil V.L.T.

MANUFACTURER: GUNDEL

INVENTORY DATE (day/mo)	BATCH / ROLL NO.	Q.A. CONFORMANCE			Q.C. DOCUMENTS			QA ID
		DATE SAMPLED (day/mo)	SAMPLE NO.	PASS/FAIL	DATE RECEIVED (day/mo)	DATE CHECKED (day/mo)	PASS/FAIL	
16/8	03033205 ✓				16/8	16/8	P	DW
	03033209 ✓				16/8	16/8	P	DW
	03033213 ✓				16/8	16/8	P	DW
	03033214 ✓				16/8	16/8	P	DW
	03033285 ✓				16/8	16/8	P	DW
	03033286 ✓				16/8	16/8	P	DW
	03033287 ✓				16/8	16/8	P	DW
	03033288 ✓ ✓				16/8	16/8	P	DW
	03033291 ✓				16/8	16/8	P	DW
16/8	03033292 ✓				16/8	16/8	P	DW
5/9	03033246 ✓				14/9	14/9	P	DW
	03033247 ✓							DW
	03033251 ✓							DW
	03033252 ✓ ✓							DW
	03033261 ✓							DW
	03033276 ✓							DW
	05029768 ✓ ✓							DW
	05030043 ✓							DW
5/9	05030048 ✓				14/9	14/9	P	DW

AVG. ROLL WIDTH: 22.5 AVG. ROLL LENGTH: 600

NUMBER OF ROLLS ABOVE: _____ ACCUMULATIVE NUMBER OF ROLLS: _____

CUMULATIVE AREA: _____ TOTAL NUMBER OF CONFORMANCE TESTS: _____



GEO SYNTEC CONSULTANTS



TOWN OF HUNTINGTON

MATERIAL INVENTORY

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK

PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE

DATE: _____ day _____ month _____ year

PRODUCT TYPE: 40 MIL VLDPE GEOMEMBRANE MANUFACTURER: GUNDEL

INVENTORY DATE (day/mo)	BATCH / ROLL NO.	Q.A. CONFORMANCE			Q.C. DOCUMENTS			QA ID
		DATE SAMPLED (day/mo)	SAMPLE NO.	PASS/FAIL	DATE RECEIVED (day/mo)	DATE CHECKED (day/mo)	PASS/FAIL	
B/L 46526 4/9	03033274 ✓				21/9	21/9	P	KFD
	05029746 ✓						P	KFD
	05029751 ✓						P	KFD
	05029758 ✓						P	KFD
	05029769 ✓						P	KFD
	05029770 ✓						P	KFD
	05029771 ✓						P	KFD
	05029772 ✓						P	KFD
	05029774 ✓						P	KFD
	05029780 ✓						P	KFD
4/9	05030079 ✓						P	KFD
	05030115 ✓				21/9	21/9	P	KFD
B/L 46566 12/9	05029759 ✓				21/9	21/9	P	KFD
	05029765 ✓				21/9	21/9	P	KFD
	05029787 ✓				21/9	21/9	P	KFD
	05030042 ✓				21/9	21/9	P	KFD
	05030047 ✓				21/9	21/9	P	KFD

AVG. ROLL WIDTH: 22 AVG. ROLL LENGTH: 600

NUMBER OF ROLLS ABOVE: 17 ACCUMULATIVE NUMBER OF ROLLS: _____

CUMULATIVE AREA: _____ TOTAL NUMBER OF CONFORMANCE TESTS: _____



GEOSYNTEC CONSULTANTS



TOWN OF HUNTINGTON

MATERIAL INVENTORY

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK

PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE

DATE: 15 day 10 month 95 year

PRODUCT TYPE: 40 MIL VLDPE TEXT. MANUFACTURER: GSE

INVENTORY DATE (day/mo)	BATCH / ROLL NO.	Q.A. CONFORMANCE			Q.C. DOCUMENTS			QA ID
		DATE SAMPLED (day/mo)	SAMPLE NO.	PASS/FAIL	DATE RECEIVED (day/mo)	DATE CHECKED (day/mo)	PASS/FAIL	
8/11	03035546 ✓				7/11	7/11	P	DDW
8/11	03035547 ✓				7/11	7/11	P	DDW
8/11	03035548 ✓				7/11	7/11	P	DDW
8/11	03035549 ✓				7/11	7/11	P	DDW
8/11	03035550 ✓				7/11	7/11	P	DDW
8/11	03035551 ✓				7/11	7/11	P	DDW
8/11	03035552 ✓				7/11	7/11	P	DDW
8/11	03035553 ✓				7/11	7/11	P	DDW
8/11	03035554 ✓				7/11	7/11	P	DDW
8/11	03035555 ✓				7/11	7/11	P	DDW
8/11	03035557 ✓				7/11	7/11	P	DDW
6/12	03035558 ✓				6/12	6/12	P	DDW
11/12	03034988 ✓							DDW

AVG. ROLL WIDTH: 22

AVG. ROLL LENGTH: 600

NUMBER OF ROLLS ABOVE: 12

ACCUMULATIVE NUMBER OF ROLLS:

CUMULATIVE AREA: TOTAL NUMBER OF CONFORMANCE TESTS:

SUB APPENDIX M-3

GEOGRID

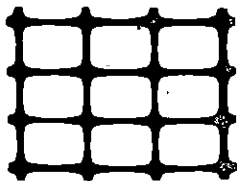


**1210 Citizens Parkway
Morrow, Georgia 30260
Tel. (404) 968-3255**

PRODUCT CODE:

QUANTITY

[illegible]



Tensor

The Tensor Corporation

1210 Citizens Parkway
Morrow, Georgia 30260
Tel. (404) 968-3255

SHIP DATE: 12-29-94
SOLD TO: J. D. Posillico, INC
SHIP TO: Huntington Landfill
BILL OF LADING: 18372
PRODUCT CODE: UX 1500 45

LOT NO.	ROLL NO.										QUANTITY
1-4226-	61	62	63	64	65	66					6
-											
1-4227-	25	26	27	28	29	30	43	44	45	46	12
-	47	48									
-											
1-4228-	01	02	03	04							4
-											
1-4230-	78										1
-											
1-4255-	01	02	03	04	05						5
-											
1-4262-	88	89	90	91	92	93	94				7
-											
1-4265-	10	11	12	13	14	15	34	35	36	37	18
-	38	39	40	41	42	43	44	45			
-											
1-4266-	67	68	69	70	71	72	73	74	75	76	12
-	77	78									
-											
1-4267-	01	02	03								3

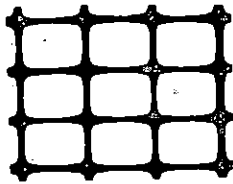
B/L # 18372

SHIP TO: Huntington landfill

PRODUCT CODE: UX150045

LOT NO. ROLL NO.

QUANTITY[illegible]



Tensor

The Tensor Corporation

1210 Citizens Parkway
Morrow, Georgia 30260
Tel. (404) 968-3255

SHIP DATE: 12-28-94
SOLD TO: J.D. Posill Co, INC
SHIP TO: Huntington Landfill
BILL OF LADING: 18314
PRODUCT CODE: UX 150045

LOT NO.	ROLL NO.								QUANTITY			
1-4264-	01	02	03	04	05	06	07	08				
-												
1-4265-	04	05	06	07	08	09	52	53	54	55		
-	56	57	64	65	66	67	68	69	70			
-												
1-4266-	79	80	81	82	83	84	85	86	87	88		
-												
1-4225-	01											
-												
1-4226-	67	68	69	70	71	72						
-												
1-4227-	07	08	09	10	11	12						
-												
-												
1-4228-	45	46	47									
-												
1-4229-	01	02	03	04	05	06	07	08	09	10		
-	11	12	13	14	15	16	17	18	19	20		
-	21	46	47	48	49	50	51	22	23	24		
-	25	26	27	28	29	30	31	32	33			

B/L # 18314

SHIP TO: Huntington landfill

PRODUCT CODE: UX150045

LOT NO.

ROLL NO.

QUANTITY[illegible]

B/L # 18278

PRODUCT CODE: UX 1700 45

LOT NO. ROLL NO.

QUANTITY

[illegible]



Tensor

The Tensar Corporation

1210 Citizens Parkway
Morrow, Georgia 30265
Tel. (404) 968-3255

SHIP DATE: 12-22-94
SOLD TO: J.D. Asillica, Inc.
SHIP TO: ADVANCE Distrib. Sys.
BILL OF LADING: 17570
PRODUCT CODE: UX 150045

[illegible]



**1210 Citizens Parkway
Morrow, Georgia 30260
Tel. (404) 968-3255**

PRODUCT CODE: UX 1500 45

[illegible]

B/L # 18295

PRODUCT CODE: UX 1500 45

LOT NO. ROLL NO.

QUANTITY

[illegible]

Tensar

The Tensar Corporation

1210 Citizens Parkway
Morrow, Georgia 30250
Tel: (404) 966-3255
Fax: (404) 966-3255

SHIP DATE:

12/27/94

SOLD TO:

J. D. POSSILICO INC

SHIP TO:

Huntington Landfill

BILL OF LADING:

18318

PRODUCT CODE:

UX/50045

LOT NO.	ROLL NO.	QUANTITY
1-4266 -	01 02 03 04 05 06 19 20 21 22	
-	23 24 25 26 27 28 29 30 07 08	
-	09 10 11 12	24
2-6007 -	27 28 29 30 31 32 33 34 35 36	
-	37 38 39 40 41 42 43 44 51 52	
-	53 54 55 56 03 04 05 06 07 08	
-	09 10 11 12 13 14 15 16 17 18	
-	19 20 21 22 23 24 25 26 01 02	50
1-4257 -	40 41 42 43 44 45 64 65 66 67	
-	68 69 70 71 72 73 74 75 76 77	
-	78 79 80 81 82 83 84 85 86 87	
-	88	31
1-4258 -	01 02 03 04 05 06 07 08 09 10	
-	11 12 13 14 15 16 17	17
1-4256 -	69 70 71 72	4
1-4263 -	01 02 03 04 05 06 67 68 69 70	
-	71 72	12
2-6001 -	37 38 39 40 41 42	6

144



Tensar

The Tensar Corporation

1210 Citizens Parkway
Morrow, Georgia 30260
Tel. (404) 968 3255

SHIP DATE:

SOLD TO:

SHIP TO:

BILL OF LADING:

PRODUCT CODE:

12-22-94

J.D. POSILLICO, INC

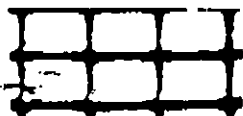
Huntington Land Co.

17569

UX150045

QUANTITY

[illegible]



Tensar

The Tensar Corporation.

1210 Citizens Parkway
Morrow, Georgia 30266
Tel. (404) 968-3222

SHIP DATE:

SOLD TO:

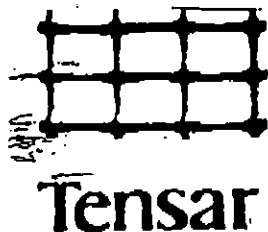
SHIP TO:

BILL OF LADING:

PRODUCT CODE:

QUANTITY

LOT NO.	ROLL NO.
1-4227 -	49 50 51 52 53 54 01 02 03 04
-	05 06 31 32 33 34 35 36 13 14
-	15 16 17 18 37 38 39 40 41 42 30
1-4229 -	34 35 36 37 38 39 76 77 78 79
-	80 81 64 65 66 67 68 69 58 59
-	60 61 62 63 52 53 54 55 56 57 30
1-4226 -	49 50 51 52 53 54 13 14 15 16
-	17 18 25 26 27 28 29 30 07 08
-	09 10 11 12 79 80 81 82 83 84
-	85 86 87 88 89 90 19 20 21 22
-	23 24 37 38 39 40 41 42 48
-	
1-4229 -	40 41 42 43 44 45 70 71 72 73
-	74 75 12
-	
1-4228 -	21 22 23 24 25 26 09 10 11 12
-	13 14 05 06 07 08 16
-	
1-4227 -	61 62 19 20 21 22 23 24 8
-	
-	144



The Tensar Corporation

1210 Citizens Parkway
Morrow, Georgia 30265
Tel. (404) 968 3255

SHIP DATE:

12-22-94

SOLD TO:

J.D. POSILLICO, INC

SHIP TO:

Huntington Land Co.

BILL OF LADING:

17569

PRODUCT CODE:

UX 150045

QUANTITY

[illegible]



**1210 Citizens Parkway
Morrow, Georgia 30260
Tel. (404) 968-3255**

SHIP DATE: 12-29-94
SOLD TO: J.D. Posillico, INC
SHIP TO: Huntington Landfill
BILL OF LADING: 18372
PRODUCT CODE: UX 1500 45

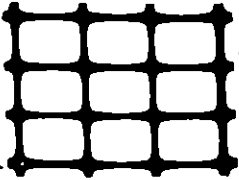
LOT NO.	ROLL NO.	QUANTITY

LOT NO.	ROLL NO.
1-4226-	61 62 63 64 65 66
-	
1-4227-	25 26 27 28 29 30 43 44 45 46
-	47 48
-	
1-4228-	01 02 03 04
-	
1-4230-	78
-	
1-4255-	01 02 03 04 05
-	
1-4262-	88 89 90 91 92 93 94
-	
1-4265-	10 11 12 13 14 15 34 [✓] 35 [✓] 36 [✓] 37 [✓]
-	38 [✓] 39 [✓] 40 [✓] 41 [✓] 42 [✓] 43 [✓] 44 [✓] 45 [✓]
-	
1-4266-	67 68 69 70 71 72 73 [✓] 74 [✓] 75 [✓] 76 [✓]
-	77 [✓] 78 [✓]
-	
1-4267-	01 02 03 ✓

SHIP TO: Huntington Landfill
PRODUCT CODE: UX150045

LOT NO.	ROLL NO.	QUANTITY
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	7	7
8	8	8
9	9	9
10	10	10
11	11	11
12	12	12
13	13	13
14	14	14
15	15	15
16	16	16
17	17	17
18	18	18
19	19	19
20	20	20
21	21	21
22	22	22
23	23	23
24	24	24
25	25	25
26	26	26
27	27	27
28	28	28
29	29	29
30	30	30
31	31	31
32	32	32
33	33	33
34	34	34
35	35	35
36	36	36
37	37	37
38	38	38
39	39	39
40	40	40
41	41	41
42	42	42
43	43	43
44	44	44
45	45	45
46	46	46
47	47	47
48	48	48
49	49	49
50	50	50
51	51	51
52	52	52
53	53	53
54	54	54
55	55	55
56	56	56
57	57	57
58	58	58
59	59	59
60	60	60
61	61	61
62	62	62
63	63	63
64	64	64
65	65	65
66	66	66
67	67	67
68	68	68
69	69	69
70	70	70
71	71	71
72	72	72
73	73	73
74	74	74
75	75	75
76	76	76
77	77	77
78	78	78
79	79	79
80	80	80
81	81	81
82	82	82
83	83	83
84	84	84
85	85	85
86	86	86
87	87	87
88	88	88
89	89	89
90	90	90
91	91	91
92	92	92
93	93	93
94	94	94
95	95	95
96	96	96
97	97	97
98	98	98
99	99	99
100	100	100

[illegible]



Tensar

The Tensar Corporation

1210 Citizens Parkway
Morrow, Georgia 30260
Tel. (404) 968-3255

SHIP DATE: 12-21-94

SOLD TO: J.D. Posillco, Inc

SHIP TO: Huntington Landfill

BILL OF LADING: 18283

PRODUCT CODE: UX 1500 45

LOT NO.	ROLL NO.	QUANTITY
1-4225 -	01 02 03 04 05 06 07 08 09 10 11 12 13 14	12
-	15 16 17	
-		
1-4230 -	16 17 18 19 20 21 22 23 24	12
-	25 26 27	
-		
1-4251 -	54 55 56 57 58 59 60 61 62	18
-	63 64 65 66 67 68 69 70 71	
-		
1-4255 -	01 02 03 04 05 06 07 08 09 10 11 12 13 14	60
-	15 16 17 18 19 20 21 22 23	
-	24 25 26 27 28 29 30 31 32	
-	33 34 35 36 37 38 39 40 41	
-	42 43 44 45 46 47 48 49 50	
-	51 52 53 54 55 56 57 58 59	
-	60 61 62 63 64 65 66 67 68	
-	69 70 71 72 73 74 75 76 77	
-	78 79 80 81 82 83	
-		
2-6001 -	01 02 03 04 05 06 07-18	18
-		
2-6002 -	60-71	12
-		
		total/ 132

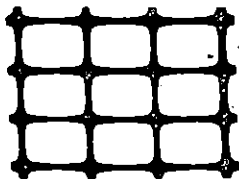


1210 Citizens Parkway
Morrow, Georgia 30260
Tel. (404) 968-3255

PRODUCT CODE:

UX150045

[illegible][illegible]



Tensar

The Tensar Corporation

1210 Citizens Parkway
Morrow, Georgia 30260
Tel. (404) 968-3255

SHIP DATE: 12-23-94
SOLD TO: J. P. Poselluco Inc.
SHIP TO: Huntington Landfill
BILL OF LADING: 18315
PRODUCT CODE: UX1500-45

LOT NO.	ROLL NO.	QUANTITY
1-4259-	85 86 87 88 79 80 81 82 83 84	10
1-4259 -	01 02 03 04 05 06 07 08 09 10	10
-	11 12 13 14 15 16 17 18 19 20	10
-	21 22 23 24 25 26 27 28 29 30	10
-	31 32 33 34 35 36 37 38 39 40	10
-	41 42 43 44 45 46 47 48 49 50	10
-	51 52 53 54 55 56 57 58 59 60	10
-	61 62 63 64 65 66 67 68 69 70	10
✓ -	71 73 74 75 76 77 78 72	8
-		
1-4256 -	51 52 53 54 55 56 57 58 59 60	10
↓ -	61 62 63 64 65 66 67 68	8
↓ -	01 02	2
2-6001 -	01 02 03 04 05	5
-	43 44 45 46 47 48 49 50 51 52	10
-	53 54 55 56 57 58 59 60 61 62	10
-	63 64 65 66 67	5
-		
2-6006 -	69 70 71 72 73 74	6
-		
-		144



The Tensar Corporation

1200 Citizens Parkway
 Morrow, Georgia 30250
 Tel: (404) 868-3255
 Fax: (404) 861-8239

SHIP DATE:

12/27/94

SOLD TO:

J. D. Posillico Inc

SHIP TO:

Huntington Landfill

BILL OF LADING:

18318

PRODUCT CODE:

UX/50045

LOT NO.	ROLL NO.										QUANTITY
1-4266 -	01	02	03	04	05	06	19	20	21	22	
-	23	24	25	26	27	28	29	30	07	08	
-	09	10	11	12							24
2-6007 -	27	28	29	30	31	32	33	34	35	36	
-	37	38	39	40	41	42	43	44	51	52	
-	53	54	55	56	03	04	05	06	07	08	
-	09	10	11	12	13	14	15	16	17	18	
-	19	20	21	22	23	24	25	26	01	02	50
1-4257 -	40	41	42	43	44	45	64	65	66	67	
-	68	69	70	71	72	73	74	75	76	77	
-	78	79	80	81	82	83	84	85	86	87	
-	88										31
1-4258 -	01	02	03	04	05	06	07	08	09	10	
-	11	12	13	14	15	16	17				17
1-4256 -	69	70	71	72							4
1-4263 -	01	02	03	04	05	06	67	68	69	70	
-	71	72									12
2-6001 -	37	38	39	40	41	42					6

144



**1210 Citizens Parkway
Morrow, Georgia 30260
Tel. (404) 968-3255**

SOLD TO: J.D. Posillico, Inc
SHIP TO: Huntington Landfill
BILL OF LADING: 18314
PRODUCT CODE: UX150045

PRODUCT CODE:

LOT NO.	ROLL NO.	QUANTITY
1-4264-	01 02 03 04 05 06 07 08	
-		
1-4265-	04 05 06 07 08 09 52 53 54 55	
-	56 57 64 65 66 67 68 69 70	
-		
1-4266-	79 80 81 82 83 84 85 86 87 88	
-		
1-4225-	01	
-		
1-4226-	67 68 69 70 71 72	
-		
1-4227-	07 08 09 10 11 12	
-		
-		
1-4228-	45 46 47	
-		
1-4229-	01 02 03 04 05 06 07 08 09 10	
-	11 12 13 14 15 16 17 18 19 20	
-	21 46 47 48 49 50 51 22 23 24	
-	25 26 27 28 29 30 31 32 33	
-		

SHIP TO: Handling for Landfill
PRODUCT CODE: MX150045

PRODUCT CODE: 22150075

ÖVANTILY

[illegible]



**1210 Citizens Parkway
Morrow, Georgia 30260
Tel. (404) 968-3255**

LOT NO.	ROLL NO.	QUANTITY

[illegible]



**1210 Citizens Parkway
Morrow, Georgia 30260
Tel. (404) 968-3255**

PRODUCT CODE: UX 1500 45

[illegible]

1. The first part of the report discusses the general situation of the country and the progress of the work. It also mentions the results of the survey and the conclusions drawn from it.

2. The second part of the report describes the various projects and activities carried out during the year. It includes details of the work done in the different departments and the results achieved.

3. The third part of the report deals with the financial aspects of the work. It gives an account of the income and expenditure of the organization and the balance sheet for the year.

4. The fourth part of the report contains the annual report of the committee. It discusses the work of the committee and the progress made in the various fields of activity.

5. The fifth part of the report is a summary of the work done during the year. It gives a brief overview of the main achievements and the challenges faced.

6. The sixth part of the report is a list of the members of the organization. It includes the names of the members and their addresses.

7. The seventh part of the report is a list of the donors and contributors. It includes the names of the donors and the amounts contributed.

8. The eighth part of the report is a list of the volunteers and workers. It includes the names of the volunteers and the hours worked.

9. The ninth part of the report is a list of the publications and reports. It includes the titles of the publications and the authors.

10. The tenth part of the report is a list of the other organizations and institutions. It includes the names of the organizations and the nature of the relationship.

B/L # 18278

SHIP TO: Huntington Landfill

PRODUCT CODE: UX 1700 45

LOT NO. ROLL NO.

QUANTITY[illegible]

Roll on 3040
SITE