BORING LOG NO. 09-B75

CLIENT:	USACE, Galveston District Galveston, Texas	PROJECT:	TO-0012 Pipeline Dredging, Cedar Bayou & Anahuac Channel, Volume I
BORING LOCATION:	N: 13827487 E: 3260976	SITE:	Cedar Bayou PA6 Baytown, Texas

Approx. Surface Elevation: 15.5 feet

Graphic Log	DESCRIPTION	DEPTH, FEET	USCS SYMBOL	TYPE	RECOVERY, IN	SPT, BLOWS/FT	CALIBRATED HAND PENETROM., TSF	TORVANE, TSF	MOISTURE CONTENT, %	DRY DENSITY, PCF	LIQUID LIMIT, %	PLASTIC LIMIT, %	PLASTICITY INDEX	MINUS #200 SIEVE, %	COMPRESSIVE STRENGTH, TSF	FAILURE STRAIN, %	CONFINING PRESSURE, PSI
	FAT CLAY dark gray, light gray, light brown and reddish brown, soft to stiff, high to very high plasticity, moist - with roots 0 to 4 feet - with ferrous stains 4 to 12 feet	1	CH	ST	15		0.75		44	77	95	31	64	93			
		2															
		3		ST	12		0.75		36								
		4															
		5		ST	14		1.5		35								
		6															
		7		ST	13		2.0		28	95	82	26	56	100			
	- with calcareous nodules 8 to 10 feet	8															
		9		ST	11		2.0		29								
		10															
		11		ST	13		1.0		22								
		12															
	1.5 ▽ 14.0	13		ST	13		1.0		24	101	62	23	39	97			
	LEAN CLAY w/ SAND light brown, very soft to soft, medium plasticity, with sand seams and pockets, moist	14															
		15	CL	ST	17		0.25		25								
		16															
		17		ST	8		0.5		23								
		18															
	-4.5 20.0	19		ST	14		0.5		27								
	Boring terminated at 20 feet.	20															

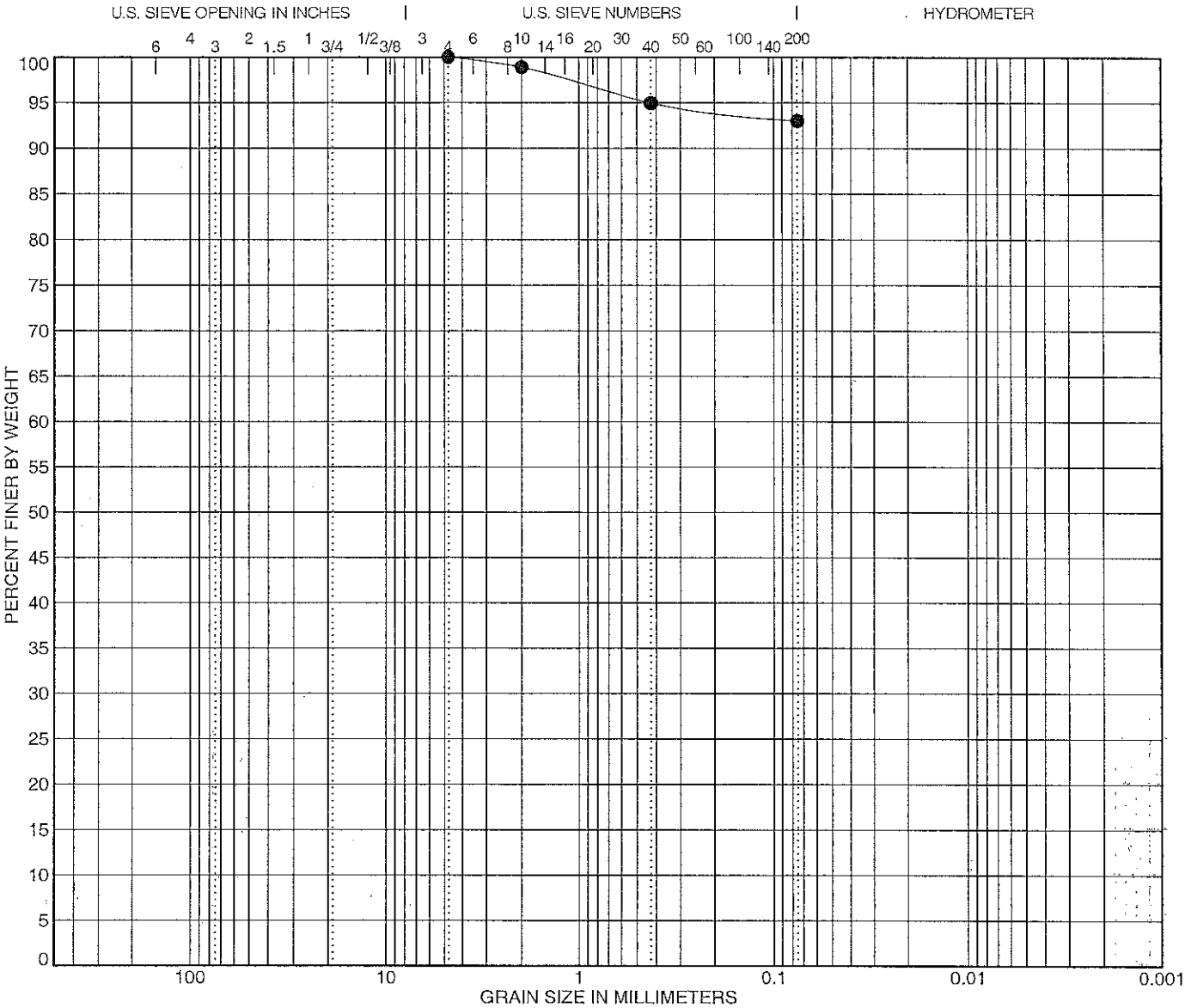
STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES BETWEEN SOIL TYPES. IN SITU, THE TRANSITION BETWEEN STRATA MAY BE MORE GRADUAL.

REMARKS: **Dry augered to 14 feet; wet rotary thereafter.**

WATER LEVEL OBSERVATIONS			
▽ 14 ft	WD	▼ 11 ft	at 5 min
▼ 9 ft	at 10 min	▼ 8.5 ft	at 15 min

Terracon

DATE DRILLED	Page 1 of 1
3/23/2010	09-B75
PROJECT NUMBER 92105186-A	EXHIBIT A-



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification			Classification	LL	PL	PI	Cc	Cu
●	09-B75	0.0	FAT CLAY(CH)	95	31	64		

D100	D50	D30	D10	%Gravel	%Sand	%Silt	%Clay
4.75				0.0	7.0	93.0	

Percent Passing the Indicated Sieve

2"	1-1/2"	1"	3/4"	3/8"	#4	#8	#10	#16	#20	#30	#40	#50	#70	#100	#140	#200
					100		98.9				94.9					93

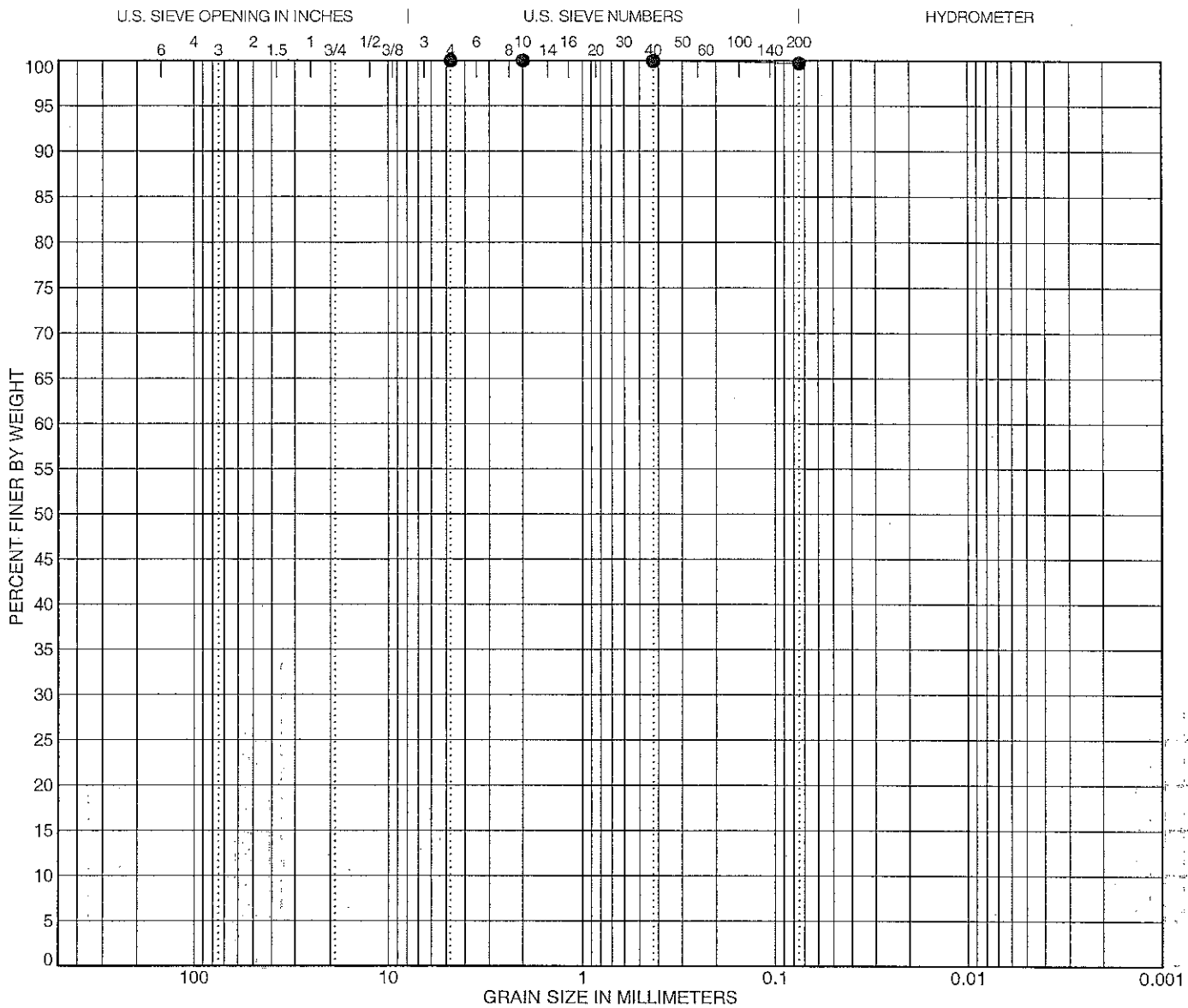
GRAIN SIZE DISTRIBUTION

TO-0012 Pipeline Dredging, Cedar Bayou & Anahuac Channel, Volume I
Baytown, Texas
Project Number 92105186-A

Terracon

Terracon Consultants, Inc.
11555 Clay Road, Suite 100
Houston, Texas 77043
Telephone: 713-690-8989
Fax: 713-690-8787

EXHIBIT
d



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

	Specimen Identification		Classification	LL	PL	PI	Cc	Cu
●	09-B75	6.0	**FAT CLAY(CH)**	**82**	**26**	**56**		

D100	D50	D30	D10	%Gravel	%Sand	%Silt	%Clay
4.75				**0.0**	**0.3**	**99.7**	

Percent Passing the Indicated Sieve

2"	1-1/2"	1"	3/4"	3/8"	#4	#8	#10	#16	#20	#30	#40	#50	#70	#100	#140	#200
					100		**100**				**99.9**					**99.7**

GRAIN SIZE DISTRIBUTION

TO-0012 Pipeline Dredging, Cedar Bayou & Anahuac Channel, Volume I
Baytown, Texas
Project Number 92105186-A

Terracon

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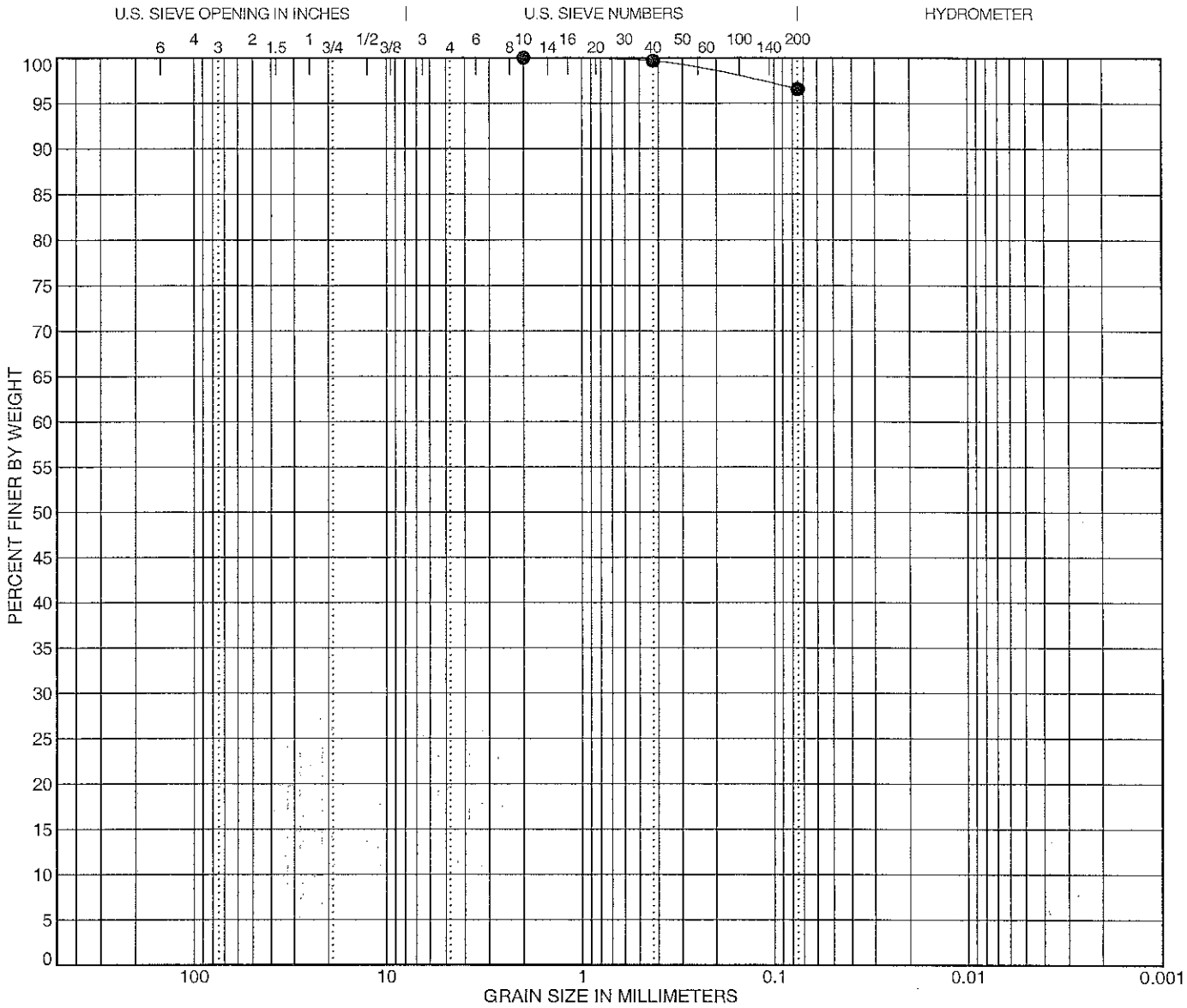
EXHIBIT e



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

	Specimen Identification		Classification	LL	PL	PI	Cc	Cu
●	**09-B75**	**12.0**	**FAT CLAY(CH)**	**62**	**23**	**39**		

D100	D50	D30	D10	%Gravel	%Sand	%Silt	%Clay
2				**0.0**	**3.5**	**96.5**	

Percent Passing the Indicated Sieve

2"	1-1/2"	1"	3/4"	3/8"	#4	#8	#10	#16	#20	#30	#40	#50	#70	#100	#140	#200
							100				**99.7**					**96.5**

GRAIN SIZE DISTRIBUTION

TO-0012 Pipeline Dredging, Cedar Bayou & Anahuac Channel, Volume I
Baytown, Texas
Project Number 92105186-A

Terracon

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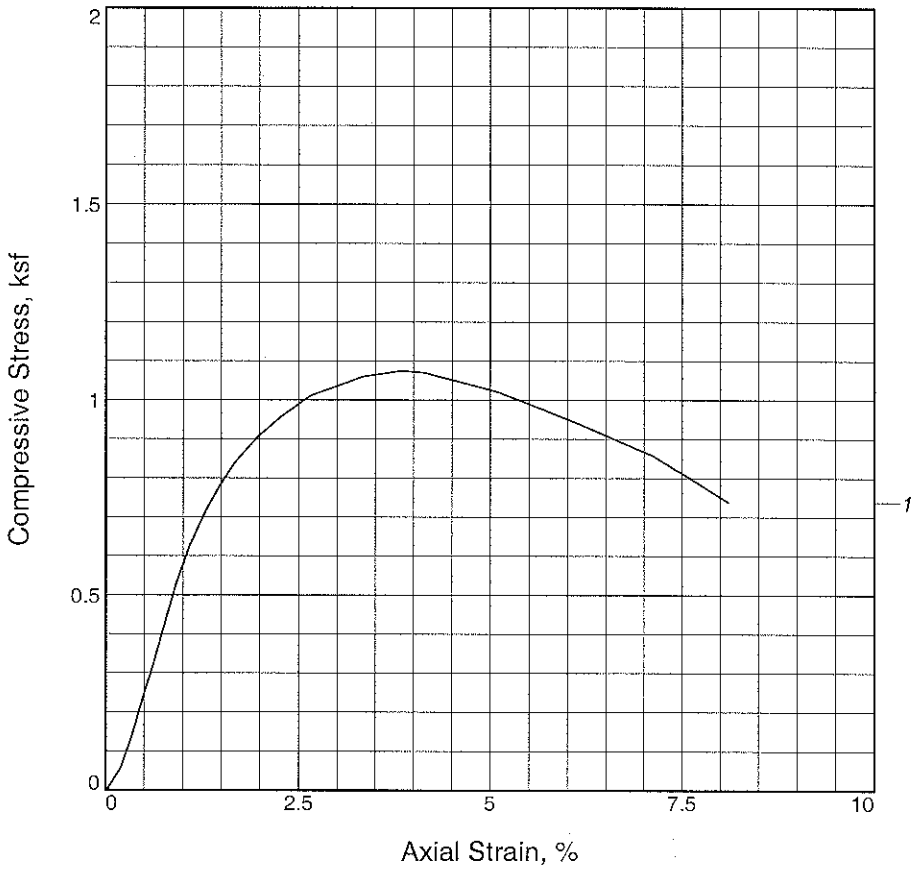
EXHIBIT f

UNCONFINED COMPRESSION TEST



Sample No.	1			
Unconfined strength, ksf	1.075			
Undrained shear strength, ksf	0.537			
Failure strain, %	3.8			
Strain rate, in./min.	0.055			
Water content, %	44.4			
Wet density, pcf	111.0			
Dry density, pcf	76.9			
Saturation, %	98.9			
Void ratio	1.2333			
Specimen diameter, in.	2.697			
Specimen height, in.	5.612			
Height/diameter ratio	2.08			

Description: Dark gray Fat Clay w/roots

LL =	**PL =**	**PI =**	**Assumed GS=** 2.75	**Type:** Undisturbed

Project No.: 92105186-B

Date Sampled:

Remarks:
ASTM D2166

Client: USACE

Project: Pipeline Dredging, Cedar Bayou and Anahuac Channel, PA 16. Contract no. W912HY-09-D-0021, Task Order No. 0012

Location: 09-B75

Sample Number: 1 **Depth:** 0-2 ft.

UNCONFINED COMPRESSION TEST
Terracon, Inc.
Houston, TX

UNCONFINED COMPRESSION TEST

11/5/2010

Date:
Client: USACE
Project: Pipeline Dredging, Cedar Bayou and Anahuac Channel, PA 16.
Contract no. W912HY-09-D-0021, Task Order No. 0012
Project No.: 92105186-B
Location: 09-B75
Depth: 0-2 ft. **Sample Number:** 1
Description: Dark gray Fat Clay w/roots
Remarks: ASTM D2166
Type of Sample: Undisturbed
Assumed Specific Gravity=2.75 **LL=** **PL=** **PI=**

Parameters for Specimen No. 1

Specimen Parameter	Initial
Moisture content: Moist soil+tare, gms.	119.920
Moisture content: Dry soil+tare, gms.	98.230
Moisture content: Tare, gms.	49.340
Moisture, %	44.4
Moist specimen weight, gms.	933.92
Diameter, in.	2.697
Area, in.^{2}	5.713
Height, in.	5.612
Wet density, pcf	111.0
Dry density, pcf	76.9
Void ratio	1.2333
Saturation, %	98.9

Test Readings for Specimen No. 1

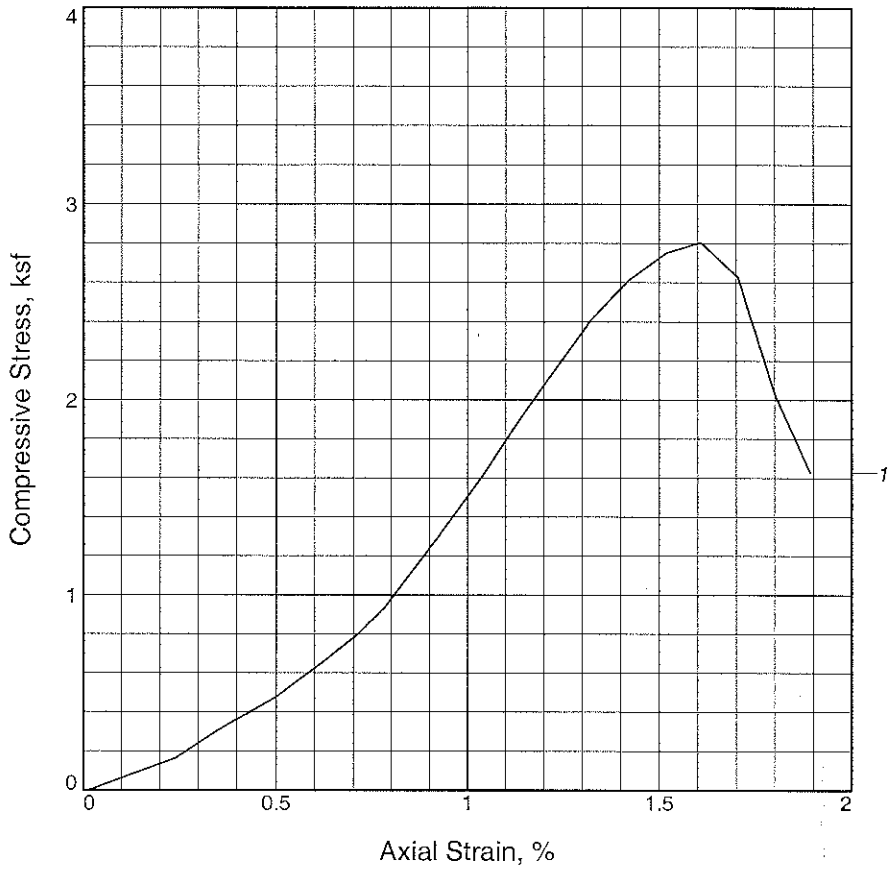
Strain rate, in./min. = 0.055
Unconfined compressive strength = 1.075 ksf **at reading no.** 18

No.	Def. Dial in.	Load Dial	Load lbs.	Strain %	Deviator Stress ksf
0	0.0000	0.000	0.0	0.0	0.000
1	0.0010	0.038	0.0	0.0	0.001
2	0.0110	2.306	2.3	0.2	0.058
3	0.0176	4.923	4.9	0.3	0.124
4	0.0233	7.536	7.5	0.4	0.189
5	0.0290	10.253	10.3	0.5	0.257
6	0.0347	12.875	12.9	0.6	0.323
7	0.0399	15.491	15.5	0.7	0.388
8	0.0455	18.312	18.3	0.8	0.458
9	0.0512	21.168	21.2	0.9	0.529
10	0.0607	25.018	25.0	1.1	0.624
11	0.0720	28.584	28.6	1.3	0.711
12	0.0829	31.337	31.3	1.5	0.778
13	0.0937	33.734	33.7	1.7	0.836
14	0.1103	36.578	36.6	2.0	0.904
15	0.1269	38.828	38.8	2.3	0.957

Test Readings for Specimen No. 1

No.	Def. Dial in.	Load Dial	Load lbs.	Strain %	Deviator Stress ksf
16	0.1491	41.224	41.2	2.7	1.012
17	0.1874	43.486	43.5	3.3	1.060
18	0.2153	44.343	44.3	3.8	1.075
19	0.2318	44.313	44.3	4.1	1.071
20	0.2857	42.701	42.7	5.1	1.022
21	0.3443	39.749	39.7	6.1	0.940
22	0.3996	36.613	36.6	7.1	0.857
23	0.4270	34.290	34.3	7.6	0.799
24	0.4544	31.870	31.9	8.1	0.738

UNCONFINED COMPRESSION TEST



Sample No.	1			
Unconfined strength, ksf	2.804			
Undrained shear strength, ksf	1.402			
Failure strain, %	1.6			
Strain rate, in./min.	0.055			
Water content, %	28.2			
Wet density, pcf	121.7			
Dry density, pcf	94.9			
Saturation, %	96.0			
Void ratio	0.8083			
Specimen diameter, in.	2.719			
Specimen height, in.	5.802			
Height/diameter ratio	2.13			

Description: Tan, brown and light gray Fat Clay

LL =	**PL =**	**PI =**	**Assumed GS=** 2.75	**Type:** Undisturbed

Project No.: 92105186-B

Date Sampled:

Remarks:
ASTM D2166

Client: USACE

Project: Pipeline Dredging, Cedar Bayou and Anahuac Channel, PA 16. Contract no. W912HY-09-D-0021, Task Order No. 0012

Location: 09-B75

Sample Number: 4 **Depth:** 6-8 ft.

UNCONFINED COMPRESSION TEST
Terracon, Inc.
Houston, TX

UNCONFINED COMPRESSION TEST

11/5/2010

Date:
Client: USACE
Project: Pipeline Dredging, Cedar Bayou and Anahuac Channel, PA 16.
Contract no. W912HY-09-D-0021, Task Order No. 0012
Project No.: 92105186-B
Location: 09-B75
Depth: 6-8 ft. **Sample Number:** 4
Description: Tan, brown and light gray Fat Clay
Remarks: ASTM D2166
Type of Sample: Undisturbed
Assumed Specific Gravity=2.75 **LL=** **PL=** **PI=**

Parameters for Specimen No. 1

Specimen Parameter	Initial
Moisture content: Moist soil+tare, gms.	114.430
Moisture content: Dry soil+tare, gms.	94.740
Moisture content: Tare, gms.	24.970
Moisture, %	28.2
Moist specimen weight, gms.	1076.51
Diameter, in.	2.719
Area, in.^{2}	5.806
Height, in.	5.802
Wet density, pcf	121.7
Dry density, pcf	94.9
Void ratio	0.8083
Saturation, %	96.0

Test Readings for Specimen No. 1

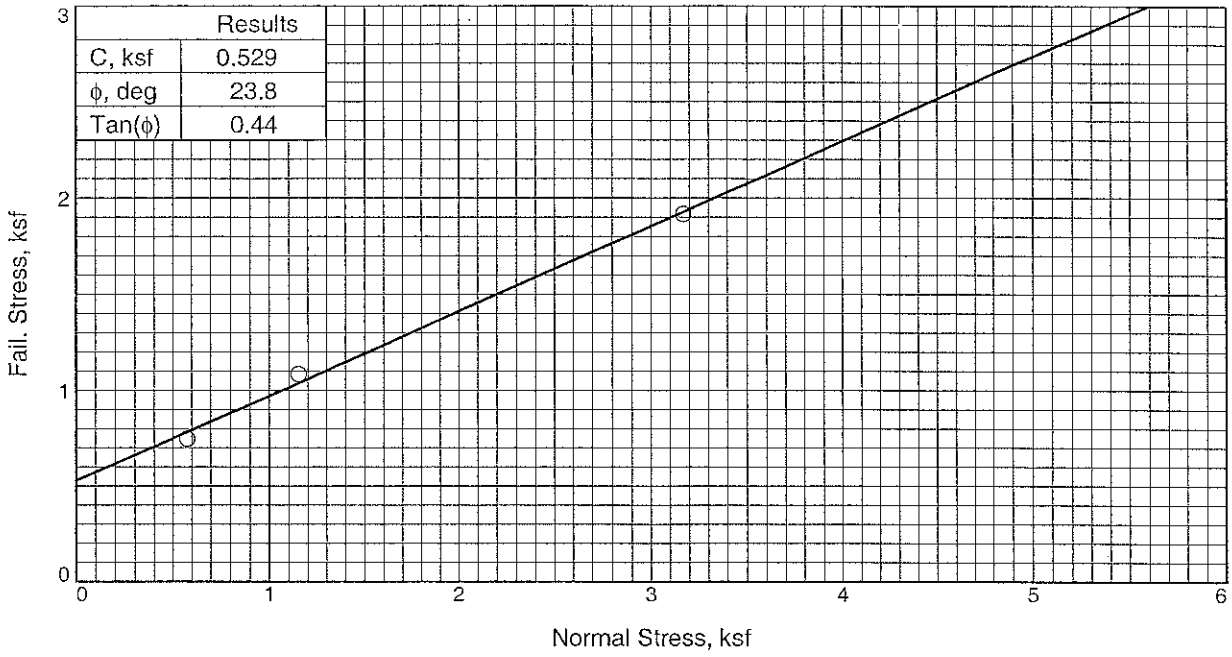
Strain rate, in./min. = 0.055

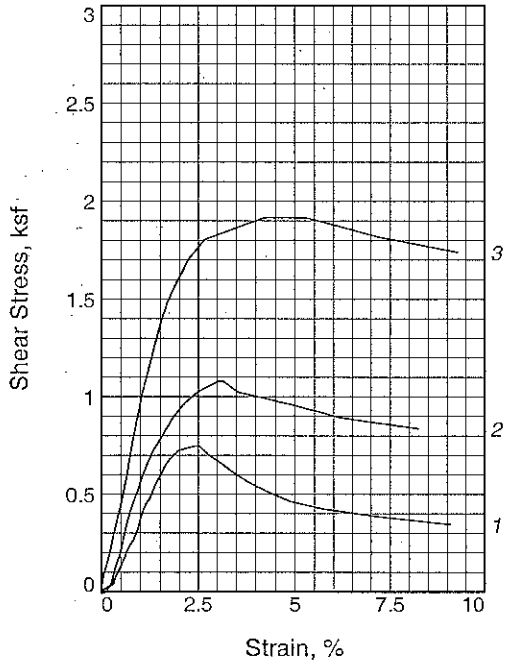
Unconfined compressive strength = 2.804 ksf **at reading no.** 16

No.	Def. Dial in.	Load Dial	Load lbs.	Strain %	Deviator Stress ksf
0	0.0000	0.246	0.0	0.0	0.000
1	0.0011	0.356	0.1	0.0	0.003
2	0.0138	6.793	6.5	0.2	0.162
3	0.0205	12.687	12.4	0.4	0.307
4	0.0290	19.572	19.3	0.5	0.477
5	0.0356	26.387	26.1	0.6	0.644
6	0.0413	32.637	32.4	0.7	0.798
7	0.0455	38.452	38.2	0.8	0.940
8	0.0493	45.380	45.1	0.8	1.110
9	0.0536	53.148	52.9	0.9	1.300
10	0.0606	66.509	66.3	1.0	1.626
11	0.0658	77.663	77.4	1.1	1.898
12	0.0715	88.597	88.4	1.2	2.164
13	0.0767	98.554	98.3	1.3	2.406
14	0.0824	107.006	106.8	1.4	2.610
15	0.0881	112.863	112.6	1.5	2.751

Test Readings for Specimen No. 1

No.	Def. Dial in.	Load Dial	Load lbs.	Strain %	Deviator Stress ksf
16	0.0933	115.170	114.9	1.6	2.804
17	0.0989	108.021	107.8	1.7	2.627
18	0.0989	108.114	107.9	1.7	2.630
19	0.1046	82.976	82.7	1.8	2.015
20	0.1098	67.108	66.9	1.9	1.627





Sample No.		1	2	3
Initial	Water Content, %	24.2	24.2	24.2
	Dry Density, pcf	100.7	101.1	100.9
	Saturation, %	95.4	96.3	95.8
	Void Ratio	0.6918	0.6854	0.6892
	Diameter, in.	2.500	2.500	2.500
	Height, in.	1.000	1.000	1.000
At Test	Water Content, %	25.1	24.5	24.3
	Dry Density, pcf	100.7	101.1	100.9
	Saturation, %	99.0	97.5	96.4
	Void Ratio	0.6918	0.6854	0.6892
	Diameter, in.	2.500	2.500	2.500
	Height, in.	1.000	1.000	1.000
Normal Stress, ksf		0.576	1.152	3.168
Fail. Stress, ksf		0.747	1.084	1.917
Strain, %		2.4	3.1	4.7
Ult. Stress, ksf				
Strain, %				
Strain rate, in./min.		0.001	0.001	0.001

Sample Type: Undisturbed
Description: Brown and gray Fat Clay

LL= 62 **PL=** 23 **PI=** 39
Assumed Specific Gravity= 2.73
Remarks: ASTM D3080
Specific gravity assumed
Percent pass #200 sieve = 96.5

Client: USACE

Project: Pipeline Dredging, Cedar Bayou and Anahuac Channel, PA 16.
Contract no. W912HY-09-D-0021, Task Order No. 0012
Location: 09-B75
Sample Number: 7 **Depth:** 12-14 ft.
Proj. No.: 92105186 **Date Sampled:**

DIRECT SHEAR TEST REPORT
Terracon, Inc.
Houston, TX

DIRECT SHEAR TEST

11/29/2010

Date:
Client: USACE
Project: Pipeline Dredging, Cedar Bayou and Anahuac Channel, PA 16.
Contract no. W912HY-09-D-0021, Task Order No. 0012
Project No.: 92105186
Location: 09-B75
Depth: 12-14 ft. **Sample Number:** 7
Description: Brown and gray Fat Clay
Remarks: ASTM D3080
Specific gravity assumed
Percent pass #200 sieve = 96.5
Type of Sample: Undisturbed
Assumed Specific Gravity=2.73 **LL**=62 **PL**=23 **PI**=39

Parameters for Specimen No. 1

Specimen Parameter	Initial	Consolidated	Final
Moisture content: Moist soil+tare, gms.	242.260		149.520
Moisture content: Dry soil+tare, gms.	204.870		124.020
Moisture content: Tare, gms.	50.180		22.410
Moisture, %	24.2	25.1	25.1
Moist specimen weight, gms.	161.18		
Diameter, in.	2.500	2.500	
Area, in.^{2}	4.909	4.909	
Height, in.	1.000	1.000	
Net decrease in height, in.		0.000	
Wet density, pcf	125.1	126.0	
Dry density, pcf	100.7	100.7	
Void ratio	0.6918	0.6918	
Saturation, %	95.4	99.0	

Test Readings for Specimen No. 1

Normal stress = 0.576 ksf
Strain rate, in./min. = 0.001
Fail. Stress = 0.747 ksf **at reading no.** 18

No.	Horizontal Def. Dial in.	Load Dial	Load lbs.	Strain %	Shear Stress ksf
0	0.0000	0.000	0.0	0.0	0.000
1	0.0005	0.188	0.2	0.0	0.006
2	0.0080	1.350	1.4	0.3	0.040
3	0.0095	2.678	2.7	0.4	0.079
4	0.0125	4.382	4.4	0.5	0.129
5	0.0150	6.030	6.0	0.6	0.177
6	0.0170	7.453	7.5	0.7	0.219
7	0.0205	9.005	9.0	0.8	0.264
8	0.0225	10.288	10.3	0.9	0.302
9	0.0240	11.577	11.6	1.0	0.340
10	0.0255	13.115	13.1	1.0	0.385
11	0.0285	15.182	15.2	1.1	0.445

Test Readings for Specimen No. 1

No.	Horizontal Def. Dial in.	Load Dial	Load lbs.	Strain %	Shear Stress ksf
12	0.0315	16.475	16.5	1.3	0.483
13	0.0345	18.528	18.5	1.4	0.544
14	0.0375	20.290	20.3	1.5	0.595
15	0.0405	21.842	21.8	1.6	0.641
16	0.0435	23.143	23.1	1.7	0.679
17	0.0495	24.693	24.7	2.0	0.724
18	0.0601	25.472	25.5	2.4	0.747
19	0.0631	25.472	25.5	2.5	0.747
20	0.0691	23.995	24.0	2.8	0.704
21	0.0766	22.631	22.6	3.1	0.664
22	0.0841	21.129	21.1	3.4	0.620
23	0.0931	19.472	19.5	3.7	0.571
24	0.1066	17.532	17.5	4.3	0.514
25	0.1216	15.839	15.8	4.9	0.465
26	0.1426	14.493	14.5	5.7	0.425
27	0.1786	13.162	13.2	7.1	0.386
28	0.2267	11.769	11.8	9.1	0.345

Parameters for Specimen No. 2

Specimen Parameter	Initial	Consolidated	Final
Moisture content: Moist soil+tare, gms.	242.260		113.830
Moisture content: Dry soil+tare, gms.	204.870		95.960
Moisture content: Tare, gms.	50.180		22.950
Moisture, %	24.2	24.5	24.5
Moist specimen weight, gms.	161.79		
Diameter, in.	2.500	2.500	
Area, in.^{2}	4.909	4.909	
Height, in.	1.000	1.000	
Net decrease in height, in.		0.000	
Wet density, pcf	125.6	125.9	
Dry density, pcf	101.1	101.1	
Void ratio	0.6854	0.6854	
Saturation, %	96.3	97.5	

Test Readings for Specimen No. 2

Normal stress = 1.152 ksf

Strain rate, in./min. = 0.001

Fail. Stress = 1.084 ksf **at reading no.** 20

No.	Horizontal Def. Dial in.	Load Dial	Load lbs.	Strain %	Shear Stress ksf
0	0.0000	3.356	0.0	0.0	0.000
1	0.0005	3.049	-0.3	0.0	-0.009
2	0.0030	3.150	-0.2	0.1	-0.006
3	0.0065	4.762	1.4	0.3	0.041
4	0.0085	7.116	3.8	0.3	0.110
5	0.0115	9.418	6.1	0.5	0.178
6	0.0135	11.669	8.3	0.5	0.244
7	0.0150	13.742	10.4	0.6	0.305
8	0.0170	15.822	12.5	0.7	0.366
9	0.0195	18.224	14.9	0.8	0.436
10	0.0225	20.425	17.1	0.9	0.501
11	0.0250	22.531	19.2	1.0	0.563
12	0.0285	25.036	21.7	1.1	0.636
13	0.0330	27.889	24.5	1.3	0.720
14	0.0375	29.968	26.6	1.5	0.781
15	0.0420	31.999	28.6	1.7	0.840
16	0.0465	34.036	30.7	1.9	0.900
17	0.0525	36.132	32.8	2.1	0.961
18	0.0616	38.184	34.8	2.5	1.022
19	0.0751	40.091	36.7	3.0	1.078
20	0.0781	40.307	37.0	3.1	1.084
21	0.0886	38.218	34.9	3.5	1.023
22	0.1246	35.969	32.6	5.0	0.957
23	0.1546	33.759	30.4	6.2	0.892
24	0.2056	31.891	28.5	8.2	0.837

Parameters for Specimen No. 3

Specimen Parameter	Initial	Consolidated	Final
Moisture content: Moist soil+tare, gms.	242.260		126.520
Moisture content: Dry soil+tare, gms.	204.870		111.030
Moisture content: Tare, gms.	50.180		47.370
Moisture, %	24.2	24.3	24.3
Moist specimen weight, gms.	161.43		
Diameter, in.	2.500	2.500	
Area, in.^{2}	4.909	4.909	
Height, in.	1.000	1.000	
Net decrease in height, in.		0.000	
Wet density, pcf	125.3	125.4	
Dry density, pcf	100.9	100.9	
Void ratio	0.6892	0.6892	
Saturation, %	95.8	96.4	

Test Readings for Specimen No. 3

Normal stress = 3.168 ksf

Strain rate, in./min. = 0.001

Fail. Stress = 1.917 ksf **at reading no.** 20

No.	Horizontal Def. Dial in.	Load Dial	Load lbs.	Strain %	Shear Stress ksf
0	0.0070	0.000	0.0	0.0	0.000
1	0.0072	0.428	0.4	0.0	0.013
2	0.0075	1.020	1.0	0.0	0.030
3	0.0085	2.807	2.8	0.1	0.082
4	0.0125	6.641	6.6	0.2	0.195
5	0.0155	10.612	10.6	0.3	0.311
6	0.0185	14.118	14.1	0.5	0.414
7	0.0215	17.574	17.6	0.6	0.516
8	0.0240	21.330	21.3	0.7	0.626
9	0.0270	26.379	26.4	0.8	0.774
10	0.0300	30.328	30.3	0.9	0.890
11	0.0330	34.383	34.4	1.0	1.009
12	0.0375	38.946	38.9	1.2	1.143
13	0.0405	42.460	42.5	1.3	1.246
14	0.0450	47.162	47.2	1.5	1.384
15	0.0495	50.766	50.8	1.7	1.489
16	0.0556	54.292	54.3	1.9	1.593
17	0.0631	58.212	58.2	2.2	1.708
18	0.0736	61.487	61.5	2.7	1.804
19	0.1126	65.312	65.3	4.2	1.916
20	0.1246	65.358	65.4	4.7	1.917
21	0.1396	65.278	65.3	5.3	1.915
22	0.1876	61.904	61.9	7.2	1.816
23	0.2387	59.287	59.3	9.3	1.739

SUMMARY TABLE OF LABORATORY TEST DATA

Project name: TO-0012 Pipeline Dredging, Volume I, Cedar Bayou PA 6 | Client: USACE, Galveston District | Terracon Project # : 92105186-A

Boring	Depth	Field tests			Atterberg Limits			Grain Size Analysis														USCS Symbol (ASTM 2487)	Wc	γd	Strength tests																						
								Percent Pasing Sieve																	Direct Shear Test					Unconfined Compression				UU Triaxial Test				CU Triaxial Test						
		PP	TV	SPTn	LL	PL	PI	3/4"	3/8"	4	8	10	16	20	30	40	50	70	100	140	200				C	φ	Wc	γd	Symbol	C	Wc	γd	Symbol	C	Wc	γd	Symbol	C	φ	c'	φ'	Wc	γd	Symbol
	ft	tsf	tsf	bl/ft	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%		%	pcf	ksf	°	%	pcf		ksf	%	pcf		ksf	%	pcf		ksf	°	ksf	°	%	pcf	
09-B74	0-2	1.75																				CH**	25																						
	2-4	0.75																				CH**	29																						
	4-6	0.75			91	23	68		100	99		97				95					83	CH	29											1.3	29	93	CH**							
	6-8	1.25																				CH**	37																						
	8-10	0.75																				CH**	44																						
	10-12	0.75			45	20	25					100				100					93	CL	45							0.7	45	79	CH**											
	12-14	1.00																				CH**	38																						
	14-16	1.75																				CH**	39																						
	16-18	0.75			96	35	61			100		99				96					93	CH	46							1.0	46	77	CH**											
	18-20	1.25																				CH**	46																						
09-B75	0-2	0.75			95	31	64			100		99				95					93	CH	44							0.5	44	77	CH**											
	2-4	0.75																				CH**	36																						
	4-6	1.50																				CH**	35																						
	6-8	2.00			82	26	56			100		100				100					100	CH	28							1.4	28	95	CH**											
	8-10	2.00																				CH**	29																						
	10-12	1.00																				CH**	22																						
	12-14	1.00			62	23	39					100				100					97	CH	24		0.5	24	24	101	CH**															
	14-16	0.25																				CL**	25																						
	16-18	0.50																				CL**	23																						
	18-20	0.50																				CL**	27																						
09-B76	0-2	3.00																				CH**	27																						
	2-4	2.50			65	22	43			100		100				98					94	CH	32	94																				
	4-6	4.00																				CH**	25																						
	6-8	1.75																				CH**	23																						
	8-10	0.50			93	30	63			100		100				100					99	CH	37							1.5	37	85	CH**											
	10-12	0.75																				CH**	22																						
	12-14	2.75																				CH**	18																						
	14-16	1.25																				CH**	25																						
	16-18	0.75																				CH**	30																						
	18-20	0.75			91	29	62			100		99			99						95	CH	35	83																				
	20-22	0.25	0.20																			CH**	81																						
	22-24	0.25	0.10																			CH**	40																						
	24-26	0.50			66	20	46					100			100						98	CH	43															0.3	5	0.2	19	43	78	CH**
	26-28	0.25																				CH**	39																						
	28-30																					CH**	42																						
	30-32	1.00																				CH**	36																						
	32-34	0.75			75	25	50															CH*	35	89																				
	34-36	1.25																				CH**	25																						
	36-38	1.50																				CH**	34																						
	38-40	1.50																				CH**	42																						
	40-42	1.25																				CH**	36																						
	42-44	1.00			111	33	78					100			100						100	CH	43											1.2	43	80	CH**							
	44-46	1.50																				CH**	41																						
	46-48	1.25																				CH**	29																						
	48-50	1.50																				CH**	33																						
	50-52	1.50			58	20	38		100			100			99						94	CH	25							1.7	25	99	CH**											
	52-54	1.00																				CH**	28																						
	54-56	0.50																				CH**	29																						
	56-58																					CH**	30																						
	58-60	0.25																				CH**	27																						
	60-62	0.50																				CH**	27																						
	62-64	0.50																				CH**	27																						
	64-66	0.50																				CH**	25																						