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Weyerhaeuser

32901 Weyerhaeuser Way South
Federal Way, Washington 98003
Analytical Chemistry Laboratories
Tacoma, Washington 98477
Tel (206) 924 6872
Fax (206) 924 6654

CASE NARRATIVE

WEYERHAEUSER (WEYER)
ANALYTICAL AND TESTING SERVICES

SAS Number: 7585-A-02
Service Request: 10078

3 Samples of low concentration soil/sediment.

Received 10/24/1992

Method Used: Particle Size - Samples were prepared and analyzed per ASTM method D-422-63 (Standard Method for Particle Size Analysis of Soils).

Narrative: There is one telephone log concerning this SAS.

#1: Item 8.1 of the SAS requirements states "... the addition of a No. 270 (53um) sieve. This was not performed. The smallest sieve used was No. 200 (75 um) as specified in ASTM D422.

The resolution is to re-run whatever is remaining of all samples. Run with a calibrated No. 270 (53um) sieve. Report all data before December 8th, 1992.

Sample number SA5872 was run in duplicate the first run and there was insufficient sample to re-run it with the No. 270 sieve.

There were no other technical problems encountered in this SAS.

Our data is labeled by our 5-digit sample number as indicated in the following table:

SAS Sample #	Sample Number
SA5872	98528
SA5873	98529
SA5874	98530

W. Trout
William Trout,
Scientist II.

12/7/92
Date.

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FIFTY YEARS

384

In Reference to Case No.
SAS 7585-A-02

Contract Laboratory Program
REGIONAL/LABORATORY COMMUNICATION SYSTEM

Telephone Record Log

Date of Call: 11-25-92
Laboratory Name: Weyerhaeuser Analytical & Testing Services
Lab Contact: Kristi Morton
Region: I
Regional Contact: Bruce E. Lane/Ed Pavlik

Call Initiated By: __ Laboratory _X_ Region

In reference to data for the following sample number(s):

All on SAS 7585-A-02.

Summary of Questions/Issues Discussed:

Item 8.1 of the SAS requirements states "... The addition of a No. 270 (53 um) sieve. This was not done. The smallest sieve was No. 200 (75 um).

Summary of Resolution:

Rerun whatever is remaining of all samples. Run with a calibrated No. 270 (53 um) sieve. Report all data before December 8th, 1992.

Signature

11/25/92
Date

Distribution: (1) Lab Copy; (2) Region Copy; (3) SMO Copy

WEYERHAEUSER COMPANY
Analytical Laboratory
Tacoma, Washington

Grain Size Report
Method - ASTM D422-63

SAMPLE - SA5872
Lab Code 98528

Less than (mm)	Less than (phi)	Greater than (mm)	Greater than (phi)	Weight (%)	Cumulative (%)
		75.000	-6.229		0.0
75.000	-6.229	50.000	-5.644		0.0
50.000	-5.644	37.500	-5.229		0.0
37.500	-5.229	25.000	-4.644		0.0
25.000	-4.644	19.000	-4.248		0.0
19.000	-4.248	9.500	-3.248	4.2	4.2
9.500	-3.248	4.750	-2.248	4.8	9.0
TOTAL FOR CLASS GRAVEL --				9.0	
4.750	-2.248	2.000	-1.000	5.8	14.8
2.000	-1.000	0.850	0.234	3.5	18.3
0.850	0.234	0.425	1.234	4.3	22.5
0.425	1.234	0.250	2.000	4.5	27.1
0.250	2.000	0.106	3.238	15.2	42.2
0.106	3.238	0.075	3.737	6.6	48.9
TOTAL FOR CLASS SAND --				39.9	
0.075	3.737	0.035	4.817	14.0	62.8
0.035	4.817	0.023	5.450	8.3	71.2
0.023	5.450	0.013	6.221	6.4	77.6
0.013	6.221	0.010	6.705	4.5	82.1
0.010	6.705	0.007	7.197	2.5	84.5
TOTAL FOR CLASS SILT --				35.6	
0.007	7.197	0.003	8.208	5.5	90.0
0.003	8.208	0.001	9.453	4.6	94.6
0.001	9.453			5.4	100.0
TOTAL FOR CLASS CLAY --				15.5	
HYGROSCOPIC MOISTURE --				0.9982	

All above results based on a density of 2.65

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WEYERHAEUSER COMPANY
Analytical Laboratory
Tacoma, Washington

Grain Size Report
Method - ASTM D422-63

SAMPLE - SA5872
Lab Code 98528 - Duplicate

Less than (mm)	Less than (phi)	Greater than (mm)	Greater than (phi)	Weight (%)	Cumulative (%)
		75.000	-6.229		0.0
75.000	-6.229	50.000	-5.644		0.0
50.000	-5.644	37.500	-5.229		0.0
37.500	-5.229	25.000	-4.644		0.0
25.000	-4.644	19.000	-4.248		0.0
19.000	-4.248	9.500	-3.248	4.2	4.2
9.500	-3.248	4.750	-2.248	4.8	9.0
TOTAL FOR CLASS GRAVEL --				9.0	
4.750	-2.248	2.000	-1.000	5.8	14.8
2.000	-1.000	0.850	0.234	4.4	19.2
0.850	0.234	0.425	1.234	4.4	23.6
0.425	1.234	0.250	2.000	4.3	28.0
0.250	2.000	0.106	3.238	14.2	42.2
0.106	3.238	0.075	3.737	8.6	50.8
TOTAL FOR CLASS SAND --				41.8	
0.075	3.737	0.036	4.810	13.3	64.1
0.036	4.810	0.023	5.445	8.0	72.1
0.023	5.445	0.013	6.215	7.4	79.5
0.013	6.215	0.010	6.705	2.6	82.1
0.010	6.705	0.007	7.194	3.1	85.2
TOTAL FOR CLASS SILT --				34.4	
0.007	7.194	0.003	8.208	4.6	89.8
0.003	8.208	0.001	9.449	5.2	95.0
0.001	9.449			5.0	100.0
TOTAL FOR CLASS CLAY --				14.8	
HYGROSCOPIC MOISTURE --				0.9981	

All above results based on a density of 2.65

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WEYERHAEUSER COMPANY
Analytical Laboratory
Tacoma, Washington

Grain Size Report
Method - ASTM D422-63

SAMPLE - SA5873
Lab Code 98529

Less than (mm)	Less than (phi)	Greater than (mm)	Greater than (phi)	Weight (%)	Cumulative (%)
		75.000	-6.229		0.0
75.000	-6.229	50.000	-5.644		0.0
50.000	-5.644	37.500	-5.229		0.0
37.500	-5.229	25.000	-4.644		0.0
25.000	-4.644	19.000	-4.248		0.0
19.000	-4.248	9.500	-3.248	3.6	3.6
9.500	-3.248	4.750	-2.248	1.9	5.5
TOTAL FOR CLASS GRAVEL --				5.5	
4.750	-2.248	2.000	-1.000	1.8	7.4
2.000	-1.000	0.850	0.234	0.9	8.2
0.850	0.234	0.425	1.234	2.0	10.2
0.425	1.234	0.250	2.000	6.6	16.9
0.250	2.000	0.106	3.238	26.7	43.5
0.106	3.238	0.075	3.737	9.5	53.0
TOTAL FOR CLASS SAND --				47.5	
0.075	3.737	0.036	4.799	16.0	69.0
0.036	4.799	0.023	5.432	8.1	77.1
0.023	5.432	0.014	6.201	7.2	84.3
0.014	6.201	0.010	6.691	2.5	86.8
0.010	6.691	0.007	7.186	1.4	88.2
TOTAL FOR CLASS SILT --				35.3	
0.007	7.186	0.003	8.206	2.5	90.7
0.003	8.206	0.001	9.455	2.6	93.3
0.001	9.455			6.7	100.0
TOTAL FOR CLASS CLAY --				11.8	
HYGROSCOPIC MOISTURE --				0.9994	

All above results based on a density of 2.65

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WEYERHAEUSER COMPANY
Analytical Laboratory
Tacoma, Washington

Grain Size Report
Method - ASTM D422-63

SAMPLE - SA5874
Lab Code 98530

Less than (mm)	(phi)	Greater than (mm)	(phi)	Weight (%)	Cumulative (%)
		75.000	-6.229		0.0
75.000	-6.229	50.000	-5.644		0.0
50.000	-5.644	37.500	-5.229		0.0
37.500	-5.229	25.000	-4.644		0.0
25.000	-4.644	19.000	-4.248		0.0
19.000	-4.248	9.500	-3.248		0.0
9.500	-3.248	4.750	-2.248	1.4	1.4
TOTAL FOR CLASS GRAVEL --				1.4	
4.750	-2.248	2.000	-1.000	2.3	3.7
2.000	-1.000	0.850	0.234	1.1	4.9
0.850	0.234	0.425	1.234	2.2	7.0
0.425	1.234	0.250	2.000	7.2	14.2
0.250	2.000	0.106	3.238	27.4	41.6
0.106	3.238	0.075	3.737	13.1	54.8
TOTAL FOR CLASS SAND --				53.4	
0.075	3.737	0.036	4.800	15.1	69.9
0.036	4.800	0.023	5.434	8.2	78.1
0.023	5.434	0.014	6.203	5.6	83.7
0.014	6.203	0.010	6.693	3.6	87.3
0.010	6.693	0.007	7.184	1.5	88.8
TOTAL FOR CLASS SILT --				34.1	
0.007	7.184	0.003	8.206	2.3	91.1
0.003	8.206	0.001	9.457	2.0	93.2
0.001	9.457			6.8	100.0
TOTAL FOR CLASS CLAY --				11.2	
HYGROSCOPIC MOISTURE --				0.9991	

All above results based on a density of 2.65

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WEYERHAEUSER COMPANY
Analytical Laboratory
Tacoma, Washington

Grain Size Report
Method - ASTM D422-63

SAMPLE - SA5873
Lab Code 98529 RE-RUN

Less than (mm)	Less than (phi)	Greater than (mm)	Greater than (phi)	Weight (%)	Cumulative (%)
		75.000	-6.229		0.0
75.000	-6.229	50.000	-5.644		0.0
50.000	-5.644	37.500	-5.229		0.0
37.500	-5.229	25.000	-4.644		0.0
25.000	-4.644	19.000	-4.248		0.0
19.000	-4.248	9.500	-3.248	3.6	3.6
9.500	-3.248	4.750	-2.248	1.9	5.5
TOTAL FOR CLASS GRAVEL --				5.5	
4.750	-2.248	2.000	-1.000	1.8	7.4
2.000	-1.000	0.850	0.234	1.1	8.5
0.850	0.234	0.425	1.234	2.4	10.9
0.425	1.234	0.250	2.000	7.3	18.2
0.250	2.000	0.106	3.238	27.8	46.0
0.106	3.238	0.075	3.737	9.2	55.2
0.075	3.737	0.053	4.238	7.1	62.3
TOTAL FOR CLASS SAND --				56.8	
0.053	4.238	0.035	4.827	7.5	69.7
0.035	4.827	0.023	5.456	7.3	77.0
0.023	5.456	0.013	6.218	7.0	84.0
0.013	6.218	0.010	6.705	2.9	86.9
0.010	6.705	0.007	7.195	1.9	88.8
TOTAL FOR CLASS SILT --				26.6	
0.007	7.195	0.003	8.219	1.5	90.3
0.003	8.219	0.001	9.462	3.8	94.1
0.003	8.219			5.9	100.0
TOTAL FOR CLASS CLAY --				11.2	
HYGROSCOPIC MOISTURE --				0.9994	

All above results based on a density of 2.65

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WEYERHAEUSER COMPANY
Analytical Laboratory
Tacoma, Washington

Grain Size Report
Method - ASTM D422-63

SAMPLE - SA5873
Lab Code 98529 - Duplicate RE-RUN

Less than (mm)	Less than (phi)	Greater than (mm)	Greater than (phi)	Weight (%)	Cumulative (%)
		75.000	-6.229		0.0
75.000	-6.229	50.000	-5.644		0.0
50.000	-5.644	37.500	-5.229		0.0
37.500	-5.229	25.000	-4.644		0.0
25.000	-4.644	19.000	-4.248		0.0
19.000	-4.248	9.500	-3.248	3.6	3.6
9.500	-3.248	4.750	-2.248	1.9	5.5
TOTAL FOR CLASS GRAVEL --				5.5	
4.750	-2.248	2.000	-1.000	1.8	7.4
2.000	-1.000	0.850	0.234	1.0	8.3
0.850	0.234	0.425	1.234	2.0	10.3
0.425	1.234	0.250	2.000	6.3	16.6
0.250	2.000	0.106	3.238	25.6	42.3
0.106	3.238	0.075	3.737	12.7	54.9
0.075	3.737	0.053	4.238	7.1	62.0
TOTAL FOR CLASS SAND --				56.5	
0.053	4.238	0.035	4.831	6.9	68.9
0.035	4.831	0.023	5.458	7.4	76.4
0.023	5.458	0.013	6.218	7.4	83.8
0.013	6.218	0.010	6.707	2.6	86.4
0.010	6.707	0.007	7.197	1.9	88.3
TOTAL FOR CLASS SILT --				26.3	
0.007	7.197	0.003	8.219	1.9	90.2
0.003	8.219	0.001	9.462	3.6	93.8
0.003	8.219			6.2	100.0
TOTAL FOR CLASS CLAY --				11.7	
HYGROSCOPIC MOISTURE --				0.9994	

All above results based on a density of 2.65

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WEYERHAEUSER COMPANY
Analytical Laboratory
Tacoma, Washington

Grain Size Report
Method - ASTM D422-63

SAMPLE - SA5874
Lab Code 98530 RE-RUN

Less than (mm)	(phi)	Greater than (mm)	(phi)	Weight (%)	Cumulative (%)
		75.000	-6.229		0.0
75.000	-6.229	50.000	-5.644		0.0
50.000	-5.644	37.500	-5.229		0.0
37.500	-5.229	25.000	-4.644		0.0
25.000	-4.644	19.000	-4.248		0.0
19.000	-4.248	9.500	-3.248		0.0
9.500	-3.248	4.750	-2.248	1.4	1.4
TOTAL FOR CLASS GRAVEL --				1.4	
4.750	-2.248	2.000	-1.000	2.3	3.7
2.000	-1.000	0.850	0.234	0.9	4.6
0.850	0.234	0.425	1.234	2.3	6.9
0.425	1.234	0.250	2.000	7.8	14.7
0.250	2.000	0.106	3.238	29.0	43.7
0.106	3.238	0.075	3.737	10.1	53.9
0.075	3.737	0.053	4.238	8.4	62.2
TOTAL FOR CLASS SAND --				60.9	
0.053	4.238	0.035	4.827	5.8	68.1
0.035	4.827	0.023	5.451	8.5	76.6
0.023	5.451	0.013	6.214	7.0	83.6
0.013	6.214	0.010	6.707	2.2	85.8
0.010	6.707	0.007	7.195	2.1	87.9
TOTAL FOR CLASS SILT --				25.7	
0.007	7.195	0.003	8.217	2.2	90.1
0.003	8.217	0.001	9.462	3.3	93.5
0.003	8.217			6.5	100.0
TOTAL FOR CLASS CLAY --				12.1	
HYGROSCOPIC MOISTURE --				0.9991	

All above results based on a density of 2.65

Notebook _____

Approved Mr Trout Date 7-DEC-92 Page Number _____