

INVESTIGATION OF AN ABANDONED CITY OF WAUSAU LANDFILL

for

WISCONSIN DEPARTMENT OF NATURAL RESOURCES

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by

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INTRODUCTION

In October 1985, CH2M HILL began a limited investigation of an abandoned City of Wausau Landfill for the Wisconsin Department of Natural Resources (DNR). This landfill is in the NW 1/4, SE 1/4, Section 23, T29N, R7E, City of Wausau, Marathon County (Figure 1).

OBJECTIVES

The objective of this investigation is to determine if contaminants from the landfill are entering the groundwater. Ultimately, the DNR is concerned about contaminants from the landfill affecting the City of Wausau water supply wells.

SCOPE

The scope of the investigation was defined by the DNR and included:

- A review of existing information available from the DNR, the City of Wausau, and published hydrogeologic information concerning the landfill, its operating history, its environmental setting, and documented contamination
- A hydrogeologic investigation in which six monitoring wells and three piezometers were to be installed
- Collection and analysis of groundwater and soil samples to determine if VOC contamination exists
- o Analysis and reporting of data.

A copy of the DNR scope of work and CH2M HILL's work plan are included in Appendix A. Because of difficult drilling conditions, Gary Kulibert, the DNR's project manager, agreed to modify the scope to require installation of only one piezometer. Metals analyses, which were not included in the original scope of work, were performed on some of the soil and water samples because of foundry sand recovered from one boring.

BACKGROUND INFORMATION

PREVIOUS INVESTIGATIONS

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In 1985, the Weston-Sper Technical Assistance Team prepared

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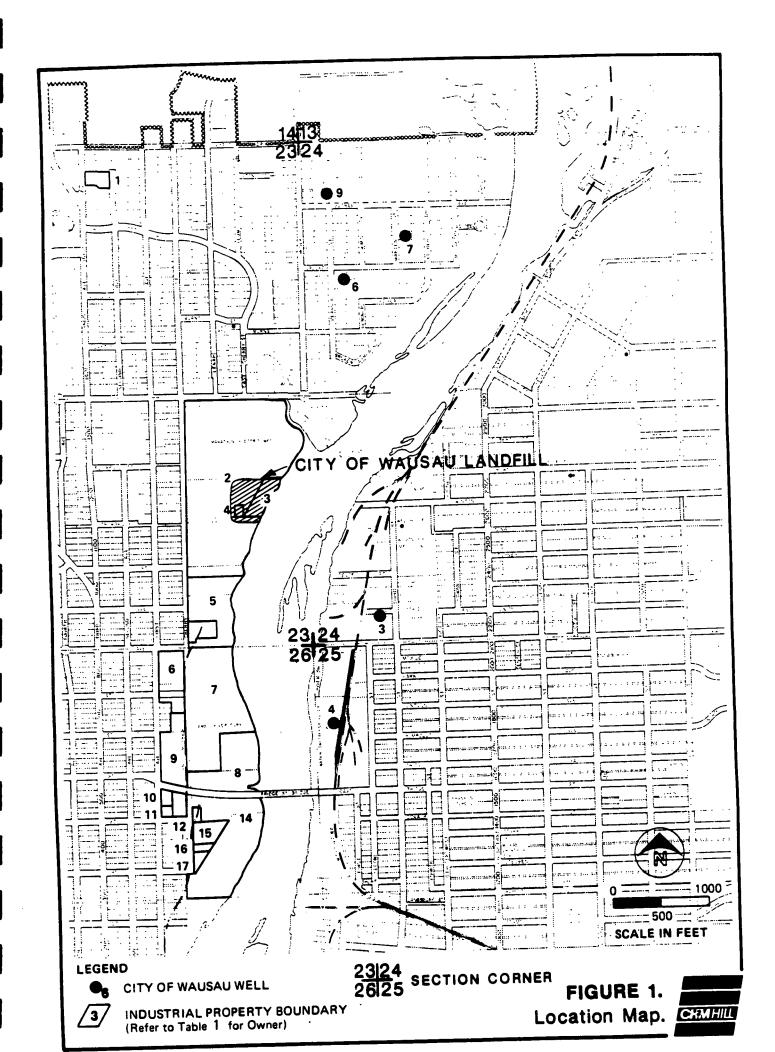


Table 1 MANUFACTURING LAND OWNERSHIP WITHIN ONE-HALF MILE OF MARATHON ELECTRIC

Map No.	Owner	Type of Activity on Property
1	George A. Digman	Insulation Firm
2	Marathon Electric Mfg.	
3	City of Wausau	Vacant Land
4	Wisconsin Public Services Corp.	Electric Substation
5	Schuette Building Center, Inc.	Lumber Yard and Building Materials Storage
6	Employers Mutual Insurance Co.	Offices and parking
7	Equitable Life Mort- gage & Realty Invest.	Fiberboard containers
8	James River-Dixie Northern, Inc.	Fiberboard Containers and Printing
9	Mortenson Lumber Co.	Lumber yard
10	C.J. Crooks	Bakery Outlet
11	James A. Gierl Po-Jo Enterprises	Equipment Rental Communications Equipment
12	C.J. Crooks	Canned Goods Outlet
13	Gerritt Vander Geest	
14	S.W.E.D. Design Struc- tures, Inc. L.C./B&K Enterprises, Inc.	Stucco and stone
15	Commonwealth Telephone Co.	Truck storage (GTE)
16	Northway Rental	Communications Rental/ Tree Experts
17	United Machine Company	Machine/Welding Shop

NOTES:

1)

- 2)
- Map number refers to Figure 1. Ownership determined from tax assessor's files. Type of business refers to current business conducted 3) on property, where known.

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a report for the U.S. EPA of their investigation of volatile organic contamination in the Wausau water supply wells. Part of this investigation included the installation and sampling of monitoring wells and a seismic refraction survey in the area of city well No. 6.

Several reports from the University of Wisconsin Extension, Geological and Natural History Survey provided general background concerning the geology and hydrogeology of the site.

SITE DESCRIPTION

The City of Wausau landfill is located on the west bank of the Wisconsin River in an abandoned sand and gravel quarry. It appears that the quarry was filled to the existing ground surface, then any depressions in the surrounding area were filled to form a flat surface. The approximate boundary of the landfill is shown in Figure 2. This boundary is based on an aerial photograph taken on September 28, 1948.

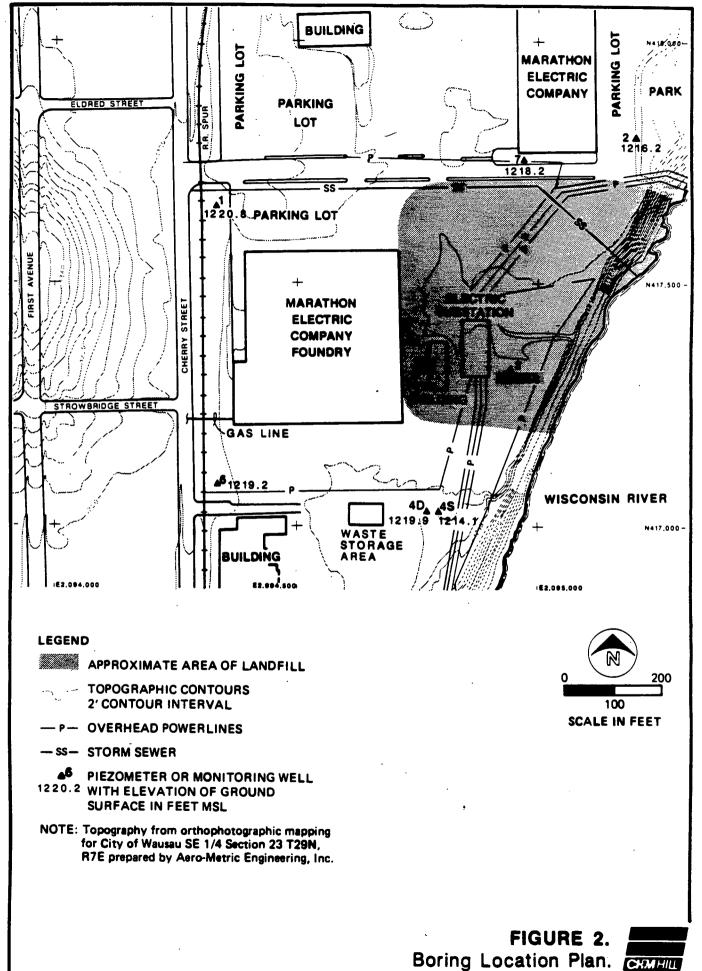
The elevation across the site ranges from 1,218 feet msl on the west to 1,210 feet msl at the top of the river bank (Figure 2), which slopes steeply to the river. The water level in the river is controlled by a dam located about 5 miles south of the landfill.

Most of the landfilled area was purchased from the City of Wausau by Marathon Electric in 1965 to provide space for parking and plant expansion. In 1969 a foundry was constructed on the southwest part of the property. This foundry was expanded to the east in 1978. To the east of the foundry, Wisconsin Public Services has an electric substation. To the north and northeast of the foundry are parking lots paved with a few inches of asphalt. As indicated in Table 1 and Figure 1, the City of Wausau retains title to the part of the filled area adjacent to the Wisconsin River.

SITE HISTORY

The landfill operated from about 1948 to 1955. During this time the landfill received residential, industrial, and commercial wastes from Wausau. People have reported seeing barrels of industrial wastes buried in the landfill (DNR, undated). There is no documentation of the amounts and types of wastes landfilled or the method of landfilling employed. Tires, demolition debris, and miscellaneous wastes were observed along the river bluff south of the landfilled area. The area north of the landfill that is currently occupied by Marathon Electric Company's offices was the site of a sawmill until about 1948 when it was purchased by its present owner.

In 1982, groundwater on the east side of the Wisconsin River was determined to be contaminated. Later it was discovered



that well No. 6 (Figure 1), located about one-third mile northeast of the landfill, was contaminated with trichloroethylene (TCE) in the 70 to 260 parts per billion (ppb) range. Monitoring wells around well No. 6 did not detect TCE in significant concentrations. As a result of this observed contamination, potential sources, including the landfill, came under investigation.

ENVIRONMENTAL SETTING

The landfill is located on the west bank of the Wisconsin River. The soils underlying the site are outwash and alluvial sand and gravel. Bedrock underlying the site is Cambrian syenite, a rock type similar to granite with less quartz (La Berge and Meyers, 1983). The bedrock on the east side of the river is a Cambrian age rhyolite. The contact between the syenite and rhyolite is buried beneath the sand and gravel deposits the Wisconsin River valley.

Depth to the rock in the area is variable because of erosion and faulting of the bedrock. Bedrock outcrops were observed to the west of the site and a bedrock topography map based on seismic and drilling data has indicated that a bedrock ridge trending northwest-southeast may exist northeast of the site (Weston, 1985). The depth to rock in the Wisconsin River valley may be as much as 160 feet.

Both the sand and gravel deposits and the bedrock produce potable water in the Wausau area. The water supply for the City of Wausau comes from high-yield wells completed at depths of approximately 100 feet in the sand and gravel along the Wisconsin River. Well locations are shown in Figure 1. This aquifer, forming a strip about 1/2-mile wide along the Wisconsin River, has a maximum potential yield to fully developed wells in the range of 10 to 500 gallons per minute (gpm). From an area just north of the landfill and extending south through Wausau, Rothschild, and Schofield is a wider area with maximum potential yields in the 500 to 1,000 gpm range (Lippet and Hennings, 1981). Recharge to this aquifer is primarily from surface infiltration. Some recharge may also come from the underlying bedrock aquifer.

On either side of the sand and gravel aquifer, the crystalline bedrock is the major aquifer, producing maximum yields of less than 20 gpm. To the west of the landfill about a mile, this maximum yield drops to less than 5 gpm (Lippet and Hennings, 1981).

Groundwater levels in the sand and gravel aquifer appear to be closely related to levels in the Wisconsin River. Fluctuations in the river level are quickly reflected in nearby monitoring wells (Kulibert, personal communication). Water levels in monitoring wells have also been related to pumping from the City of Wausau water supply wells. While monitoring water levels in a well about 1,000 feet south of the water supply well, the Weston-Sper Technical Assistance Team correlated 6- to 12-inch fluctuation in static water levels to pumping that had occurred within the previous hour at city well No. 6 (Weston, 1985).

Figure 3 shows the generalized water table contours, consisting of both the bedrock and sand and gravel aquifers. Just north of the landfill, the contours show that groundwater flow is from the northwest to the river. At the landfill, the flow is due east through the landfill to the river.

FIELD INVESTIGATIONS

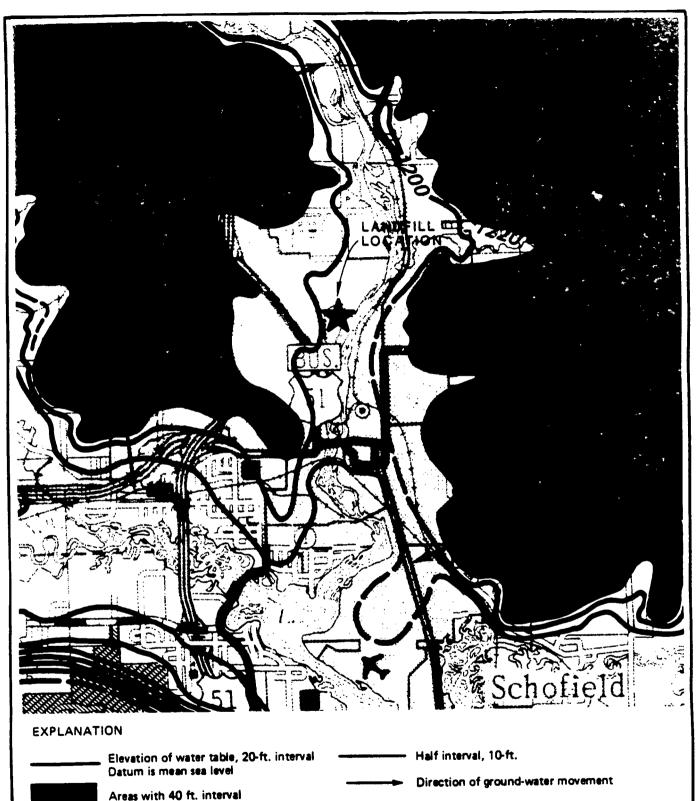
Between November 11 and November 14, 1985, six monitoring wells and one piezometer were installed at the locations shown in Figure 2. Drilling was performed by Twin Cities Testing of Wausau. The borings for monitoring wells 1, 2, 3, 4D, and 7 were advanced using 3.25-inch inside diameter hollow stem augers and a CME-45 drill rig. Soil samples were collected with a standard split-spoon sampler according to ASTM D1586 (Appendix B). The split-spoon sampler was washed in trisodium phosphate (TSP) and water between samples and the drill rig and drilling equipment were steam cleaned between each boring.

Borings 4D and 6 were advanced using mud rotary techniques and a CME-55 drill rig. Bentonite mud was used to keep the borehole open and to remove cuttings. Soil samples were collected with a split-spoon sampler in boring 4D every 5 feet from 35 to 45 feet and every 10 feet to the total depth of 106 feet. The sampler was rinsed with TSP and water between samples and the drill rig was steam cleaned prior to drilling each hole. Logs of the borings are in Appendix C.

The dense granular materials encountered in the borings made it impractical to collect undisturbed soil samples. Because of boulders or cobbles encountered at boring locations 1 and 6, the deep borings planned for these locations were not drilled.

During the drilling program, it was necessary to use drilling water from three different sources, because of contamination in local water supplies. Samples of the drilling water were taken to Zimpro Laboratory in Rothschild for analysis (Table 2). Water from all three sources was used for drilling mud in boring 6. Boring 4D was advanced using only water from Lotz Readimix. In the remaining borings, water was only used to hydrate the bentonite pellets and to mix the backfill slurry. The source of water used in these monitoring wells is indicated on the piezometer installation sketches (Appendix C).

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- Ground-water divide, approximate location
- Probable ground-water divide
 - Federal/state lands

Data have not been field checked.

SOURCE: Lippelt & Hennings, 1981

insufficient data

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Probable location of water table

Inferred location of water table

Location of water table unknown,

REGIONAL GROUNDWATER CONTOURS.

TABLE 2VOC DATA FOR DRILL WATER(ug/l)

	DETECTION LIMIT	TRIP Blank	WB-HSA-1	WB-HSA-2	WB-HSA-3	WB-ROT-1	WB-ROT-2	WB-ROT-4
Chloroform	0.1	ND	68.4	0.1	0.1	70.6	0.2	ND
Dibromochloromethane	0.1	ND	0.2	ND	ND	0.2	ND	ND
Dichlorobromomethane	0.1	ND	4.5	ND	ND	4.2	ND	ND
Ethylbenzene	0.2	ND	ND	ND	ND	ND	0.4	ND
Tetrachloroethylene	0.1	ND	0.1	ND	ND	0.1	0.3	0.1
Toluene	0.1	ND	ND	0.4	0.2	• 0.5	1.2	ND
Trichloroethylene	0.1	ND	1.0	ND	ND	0.4	ND	ND
Vinyl Chloride	0.5	ND	ND	ND	ND	ND	0.7	ND
Dichloromethane	0.1	3.0	ND	ND	ND	ND	ND	ND
WATER SOURCE		Zimpro	Wausau	Lotz	Lotz	Wausau	Weston	Lotz

NOTES: Zimpro = Zimpro Analytical Services in Rothschild, Wisconsin Wausau = City of Wausau water supply Lotz = Lotz Readimix, heated water from City of Wausau supply Weston = City of Weston water supply Representative samples of each formation encountered were sent for physical analysis. The analyses are described in

Appendix B. The results of the analyses are summarized in Table 3 and the data sheets are in Appendix D.

The monitoring wells were installed with approximately 10 feet of screen below the current water table and 5 feet of screen above the water table to monitor fluctuations of the water table. The piezometer was installed with 5 feet of screen at the bottom of the boring. Well installation sketches are in Appendix C.

At least 100 gallons of water was pumped from each monitoring well. At wells 4D and 6, a volume of water was removed to equal at least five times that used in drilling the hole. The flow from all wells, except 1S, was free of sediment.

RESULTS OF INVESTIGATION

HYDROGEOLOGY

The material removed from the borings was primarily sand that appear to be glacial outwash or alluvial deposits from the Wisconsin River. Profiles through the borings are presented in Figures 4 and 5. Locations of the profiles are shown in Figure 6. The soil ranged from fine sand to coarse sand and gravel. Cobbles and boulders were encountered in borings 1 and 6. These may be colluvial deposits from the granite bedrock or alluvial deposits. The cuttings from the rotary rig at the bottom of boring 6 looked like chips from the granite bedrock, which may indicate that the bottom of this boring was at or near the top of rock.

With the exception of the silty sand and gravel in boring 1S, the soils recovered from the boreholes contained less than 5 percent fine material (clay or silt). Most of the samples were poorly graded sand. All of the borings encountered fine to very fine sand near the bottom of the hole. Calculated permeabilities based on the grain size analyses ranged from 7×10^{-2} to 5×10^{-3} centimeters per second, with the poorly graded coarser sand and gravel being near the high end of this range.

Fill was encountered at locations 3 and 4. The fill at location 4 included rubbish and what appeared to be foundry sand.

Based on the groundwater and river level measurements on November 15 and 25, 1985 (Table 4 and Figure 6), it appears that the groundwater generally flows from northwest to southeast toward the river. The gradient to the west of the landfill is much greater than that under the landfill, which may be reflecting the change in transmissivity from the frac-

	TABLE 3			
MECHANICAL	ANALYSES	OF	SOILS	

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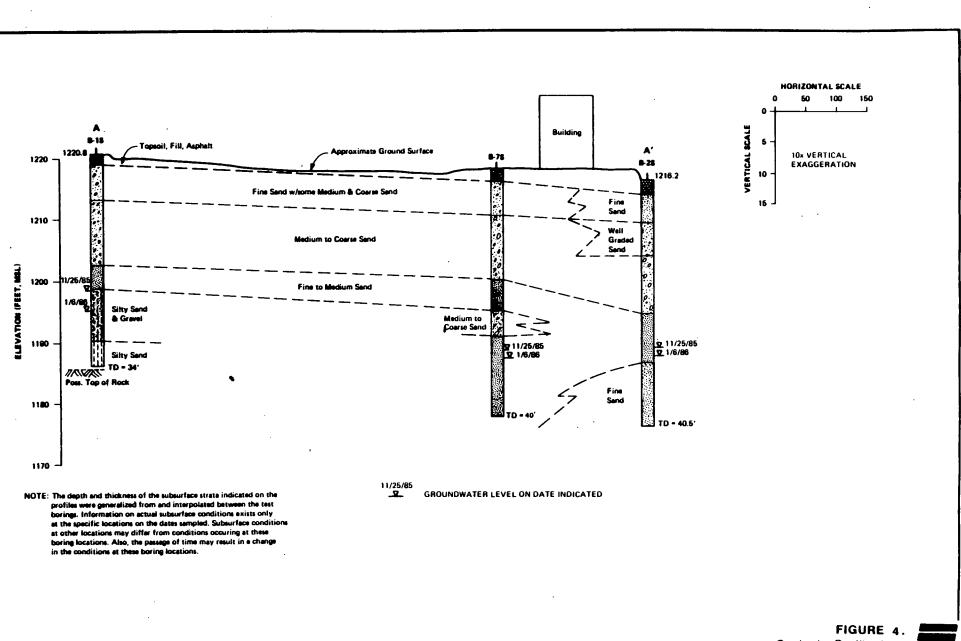
Boring Number	Sample Number	Depth (feet)	Gravel	QUANTITY C Cse Sand	F MATERIAL Med Sand	IN SAMPLE Fine Sand	Fines	Moisture Content	USCS	Comments
1S	S-3	9.5 to 11	8.7%	16.8%	44.5%	27.4%	2.6%	9.53%	SP	
15	S-5	19.5 to 21	0.0%	0.2%	45.6%	52.3%	1.7%	14.99%	SP ·	
15	S-6	23.5 to 25	25.5%	14.3%	18.7%	17.6%	24.9%	13.87%	GM	Test run with less sample mass than required by ASTM
2S	S-3	9 to 10.5	31.9%	18.0%	36.0%	11.0%	3.1%	6.78%	SW	
35	S-3	9.5 to 11	32.4%	17.1%	36.0%	9.5%	5.0%	4.45%	SW	
35	S-4	14.5 to 16	2.1%	3.9%	44.0%	48.0%	2.0%	9.56%	SP	
35	S-6	24.5 to 26	0.0%	0.0%	21.0%	78.2%	0.8%	5.38%	SP	
45	S-4	14.5 to 16	9.2%	8.6%	31.2%	48.2%	2.8%	6.97%	SP	
4S	S-5	19.5 to 21	30.1%	16.9%	37.2%	10.6%	5.2%	4.21%	SW	
4D	S-2	39.5 to 41	8.0%	2.0%	52.2%	42.2%	2.8%	17.40%	SP	
4D	S-7	84.5 to 86	0.0%	0.1%	15.9%	80.7%	3.3%	21.59%	SP	
75	S-5	19.5 to 21	9.6%	15.4%	46.0%	26.4%	2.6%	6.64%	SP	
75	S-7	29.5 to 31	0.1%	0.3%	35.8%	63.1% -	0.7%	19.26%	SP	

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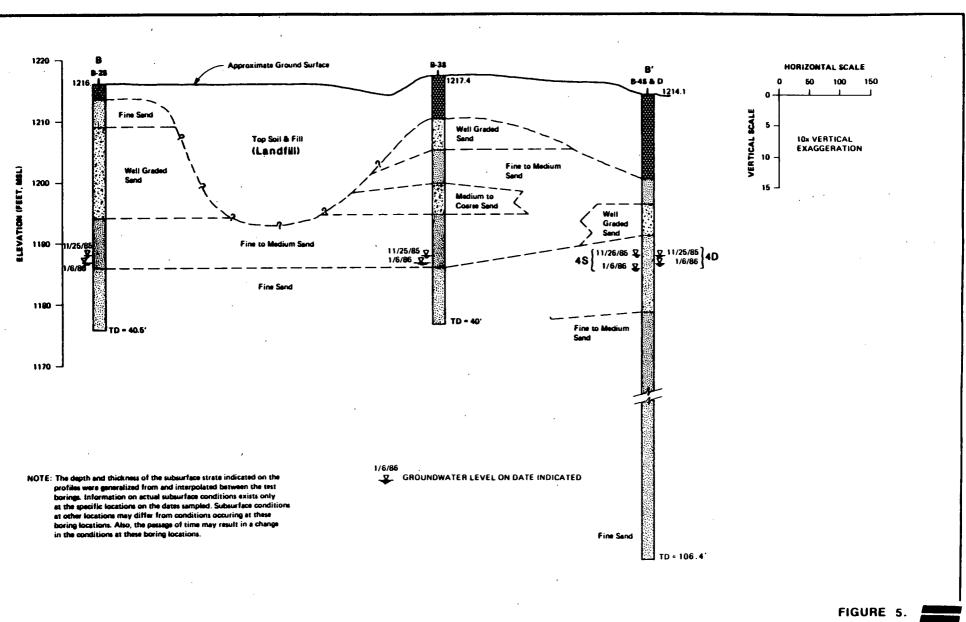
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Geologic Profile A-A



Geologic Profile B-B'

TABLE 4 WATER LEVEL MEASUREMENTS

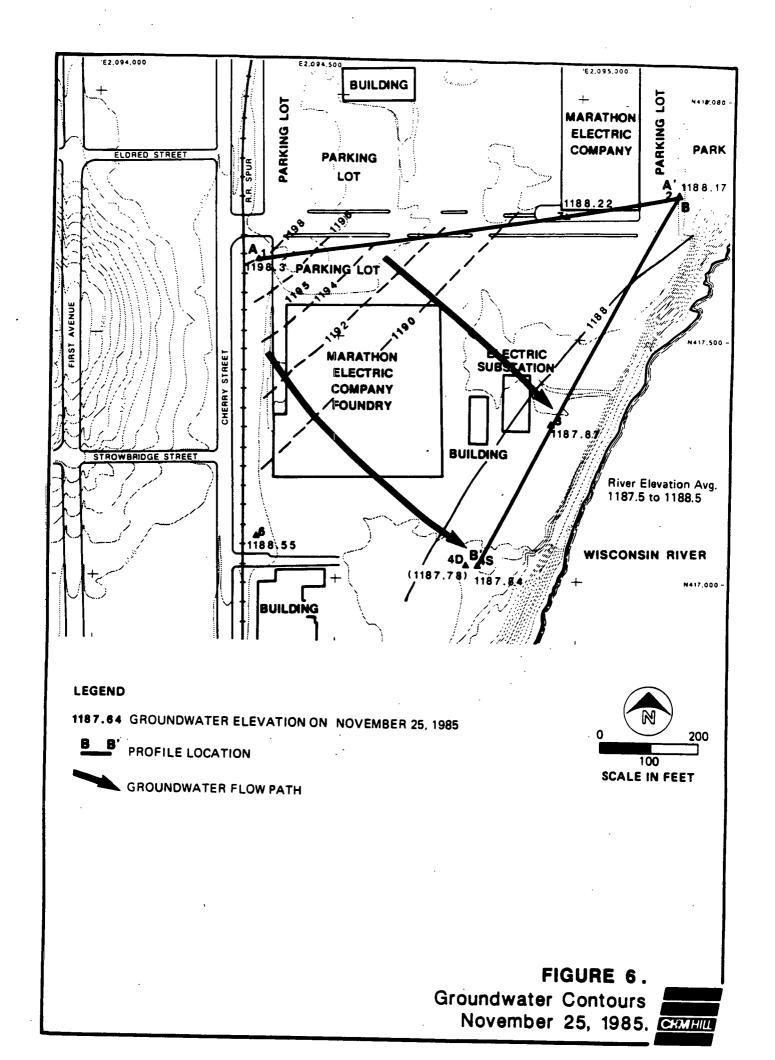
		EL	EVATION (feet, MSL	.)	WATER DEPTH FROM TOP OF CASING			GROUNDWATER ELEVATION (feet, MSL)		
WELL NUMBER	CASING HEIGHT (feet)	TOP OF CASING	TOP OF PVC	TIP OF SCREEN	GROUND SURFACE	11/15/85	11/25/85	1/06/86	11/15/85	11/25/85	1/06/86
========	=======	==========	=========	===========	========	=======================================	25.41	28.67			
1S	2.9	1223.75	1223.64	1190.9	1220.8	24.42			1199.33	1198.34	1195.08
25	3.1	1219.28	1219.17	1178.3	1216.2	30.23	31.11	32.26	1189.05	1188.17	1187.02
35	2.9	1220.31	1220.14	1178.5	1217.4	31.41	32.44	33.61	1188.9	1187.87	1186.7
45	2.8	1216.92	1216.76	1181.9	1214.1	28.50	29.08	31.28	1188.42	1187.84	1185.64
4D	2.8	1218.49	1216.26	1109.4	1213.9	*	28.71	30.11	*	1187.78	1186.38
8 S	2.7	1221.89	1221.63	1179.7	1219.2	30.57	33.34	34.72	1191.32	1188.55	1187.17
75	2.8	1221.01	1220.91	1182.2	1218.2	31.88	32. 79	33.80	1189.13	1188.22	1187.21

NOTES:

Refer to Figure 2 for well locations.

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* The groundwater level for 4D was not determined on 11/15/85 because the well had not had time to equilibrate after drilling.



tured bedrock aquifer to the sand and gravel aquifer in the river valley. The groundwater and river level measurements on January 6, 1986 (Figure 7), indicate that groundwater flow has a similar direction as in November. On January 6, river water may have been recharging a portion of the aquifer. Such recharge may occur during periods of high river stage. With the snow covered, frozen ground to prevent recharge from the surface, recharge from the river might have been more obvious than in other seasons. It would be necessary to monitor the water levels through at least one year to determine the relationship between the river water levels and the groundwater levels, and to estimate the extent of local river bank recharge which may occur during high river The steep groundwater gradient to the northwest is stages. consistent with the regional contours shown in Figure 3. The only well nest, 4S and 4D, exhibited an upward gradient at the time of the January water level measurements. This may be the result of the upward gradient from regional discharge to the river.

ENVIRONMENTAL MONITORING

Soil samples and drilling water samples were collected during the drilling program. The drilling water was only analyzed for volatile organic compounds (VOC's). The soil samples were analyzed for VOC's and three samples, including two of the suspected foundry sand and one upgradient sample, were analyzed for metals. The results of the drilling water and soils analyses are in Tables 2 and 5, respectively.

On November 25, 1985 and January 6 and 7, 1986, groundwater samples were collected for field analysis of pH, conductivity, and temperature (Table 6), and laboratory analysis of VOC's, COD, hardness, alkalinity, and dissolved iron. Samples from wells 4S, 4D, and 1 were analyzed for phenols, arsenic, barium, cadmium, chromium, lead, selenium, mercury, silver, and hardness. The results of the laboratory analyses are in Tables 7 and 8. Only contaminants that were detected in at least one sample are listed in the tables. Table 9 contains standards, criteria, and guidelines for drinking water that could be compared to the results of the groundwater analyses.

Several of the contaminants detected in the groundwater samples exceeded drinking water standards, criteria, and guidelines. Carbon tetrachloride was detected in the January sample from well 3 at a level that exceeded the Safe Drinking Water Act (SDWA) maximum contaminant levels (MCL) and the U.S. EPA Health Advisory for chronic exposure of a 10-kilogram (kg) individual. It should be noted that carbon tetrachloride was not detected in any of the samples during the November sampling round.

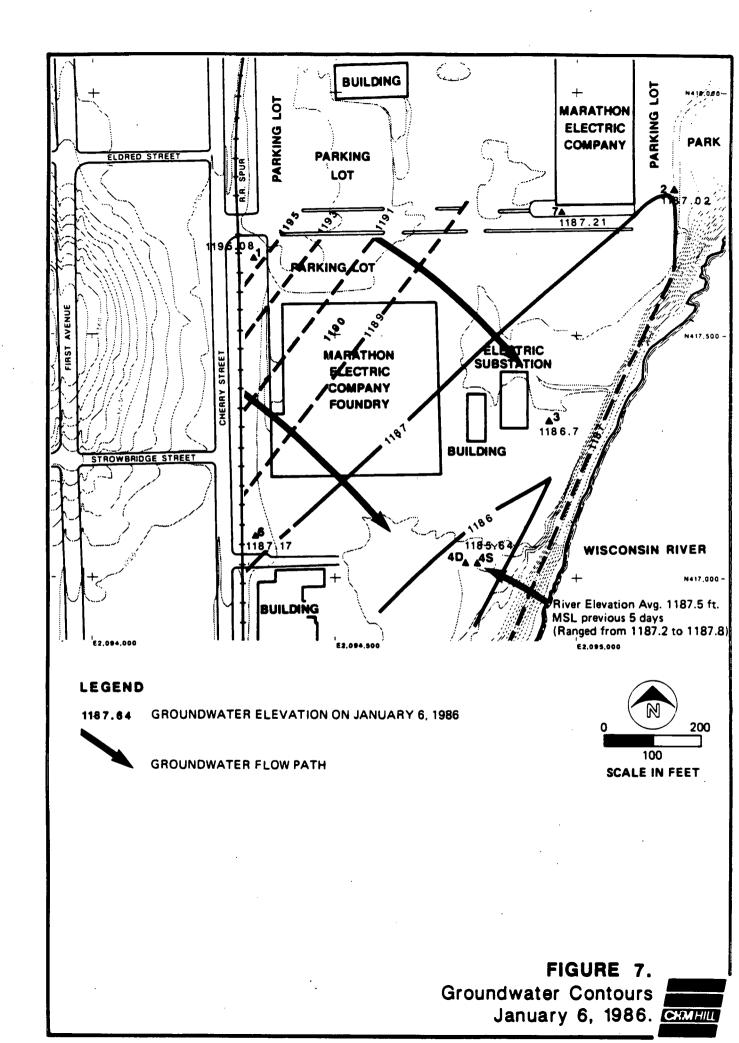


TABLE 5 SUMMARY OF CHEMICAL ANALYSIS OF SOIL (ug/g)

	SL-B2-24	SL-HSA-3	SL-HSA-4
Cyanide	<0.11	<pre><0.11 2.16 26.3 <0.077 2.15 3.92 <0:009 <0.10 <0.096</pre>	<0.09
Arsenic	1.02		3.42
Barium	24.2		24.7
Cadmium	<0.081		<0.082
Chromium	2.87		1.58
Lead	1.73		6.21
Mercury	<0.008		<0.010
Selenium	<0.10		<0.10
Silver	0.144		<0.102
Total Solids, %	96.18	92.71	84.65
Boring Number	2	4S	4S
Sample Depth	24 to 26.5	14.5 to 16	29.5 to 31

NOTES: Results expressed on a dry weight basis except Total Solids

ug/g = mg/kg = ppm

< = "less than" detection limit which varied
 with sample size</pre>

TABLE 6 page 1 of 2 SAMPLING DATA 11/25/85

ARRIVED ON SITE AT 7:40 WEATHER: CLOUDY, 9 DEGREES F

WELL NUMBER	DEPTH TO 11/15/85	* WATER 11/25/85	PURGE CALC **	VOLUME ACTUAL	SAMPLING TIME	pH	CONDUCT. (uMHOS)	TEMP (degree C)
1	24.42	25.41	6.7	1 5	11:30			
2	30.23	21 11		•	11.30	6.37	200	12
	00.25	31.11	9	9	13:45	6.0	225	
3	31.41	32.44	7.9			••••	220	12
45	•• -		1.3	8	15:20	6.0	650	10
40	28.5	29.08	5.35	6	16:10	C A		••
4D	28.5	28.71	• • -	-	10.10	6.0	1100	8
	20.0	20.71	64.5	70	15:30	6.0	215	
6	30.57	33.34	9.25	~		0.0	215	10
7	•		0.20	7	15:45	6.0	215	8
7	31.88	32.79	6.9	9	12:40	•		0
				Ū	12.40	6.0	135	12

NOTES

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* MEASURED FROM TOP OF CASING

**BASED ON 5 WELL VOLUMES FROM WATER LEVEL ON 11/15/85 (gallons)

PURGED TO CONSTANT CONDUCTIVITY

OVA READINGS WERE TAKEN AT ALL WELLS. THE BACKGROUND OVA READING RANGED FROM 1 TO 5 PPM (ODORS FROM THE PLANT MAY HAVE AFFECTED THE READINGS). ALL OF THE WELLS EXCEPT WELL 6, WHICH HAD A READING OF 6 PPM, WERE IN THE 0 TO 5 PPM RANGE.

ARRIVED ON SITE AT 9:20

WEATHER: CLOUDY, 10 DEGREES F OVERNIGHT: CLEAR, -12 DEGREES F

TABLE 6page 2 of 2FIELD SAMPLING DATA1/06/86

WELL NUMBER	DEPTH TO 11/15/85	* WATER 1/06/86	PURGE CALC **	VOLUME ACTUAL	SAMPLING TIME	} 	рН 	CONDUCT. (uMHOS)	TEMP (degree C)
1	24.42	28.67	6.7	1.5	l 10:10	D	6.95	200	7
2	30.23	32.26	9	9	11:55		2 6.09	225	10
3	31.41	33.61	7.9	5.5	14:00		6.27	600	. 6
4 S	~ 28.5	31.28	5.35	5	16:00		2 6.07	800	. 8
4D	28.5	30.11	64.5	65	10:55	D	5.96	250	6
6	30.57	34.72	9.25	10	15:30		6.10 2	190	5
7	31.88	33.80	6.9	5	14:15		5.69	205	8.5
BLANK					10:30	D	6.56	15	6

NOTES

* MEASURED FROM TOP OF CASING

**BASED ON 5 WELL VOLUMES FROM WATER LEVEL ON 11/15/85 (gallons) 1

PURGED ON 1/06/86 BY PUMPING TWICE UNTIL DRY THEN WAITING FOR RECOVERY 2 BACKED UP WITH pH PAPER

OVA READINGS WERE TAKEN AT ALL WELLS. THE BACKGROUND OVA READING RANGED FROM 4 TO 5 PPM. ALL OF THE WELLS HAD READINGS WITHIN THE BACKGROUND RANGE.

TABLE 7 CHEMICAL ANALYSES OF GROUNDWATER NOVEMBER 25, 1985

	DETECTION LIMIT	TRIP BLANK	FIELD BLANK	WELL 1	WELL 2	WELL 3	WELL 4D	WELL 4S	WELL 6	WELL 7
VOCs (ug/l)										
Carbon Tetrachloride	0.1	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	0.1	ND	ND	ND	1.1	66	1.4	ND	ND	0.8
Dibromochloromethane	0.1	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorobromomethane	0.1	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.3	ND	ND	ND	ND	ND	ND	0.4	ND	ND
1,2-Dichloroethylene	0.3	ND	ND	ND	3.7	ND	1.4	9.3	ND	ND
Dichloromethane	0.2	0.6	0.8	ND	0.5	0.4	0.4	0.6	1.6	.1.2
Ethylbenzene	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene	0.1	ND	ND	ND	0.4	0.4	0.1	0.5	0.1	ND
Toluene	0.1	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	0.1	ND	ND	ND	ND	2.5	0.3	ND	ND	11.5
Trichloroethylene	0.1	ND	ND	ND	280	6.9	19.7	2.0	ND	10.7
Vinyl Chloride	0.5	ND	ND	ND	ND	ND	ND	2.2	ND	ND
OTHER (mg/l)										
Alkalinity, as Calcium Carbonate	20		ND	56	34	268	66	433	66	39
Hardness, as Calcium	1 0		ND							
Carbonate COD	1.0 10		ND	74.1	123.0	491.0	151.0	755.0	61.0	88.0
Dissolved Iron			ND	12	ND	17	ND	56	ND	ND
	0.004		ND	0.077	0.004	ND	0.212	0.012	0.263	0.005
Barium .	0.030		0.044	ND			ND	0.200		
Lead	0.050		0.285	0.192			0.122	ND		

NOTES:

ND Analyzed but not detected

--- No analysis performed

TABLE 8									
CHEMICAL ANALYSES OF GROUNDWATER									
JANUARY 6-7, 1986									

	DETECTION LIMIT	TRIP Blank	FIELD Blank	WELL 1	WELL 2	WELL 3	WELL 4D	WELL 4S	WELL 6	WELL 7
VOCs (ug/l)										
Carbon Tetrachloride	0.1	ND	ND	ND	ND	98	ND	ND	ND	ND
Chloroform	0.1	ND	ND	ND	1.0	57.8	1.1	ND	0.1	0.9
Dibromochloromethane	0.1	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorobromomethane	0.1	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.3	ND	ND	ND	ND	ND	ND	0.4	ND	ND
1,2-Dichloroethylene	0.3	ND	ND	ND	3.0	ND	2.5	11.4	ND	ND
Dichloromethane	0.2	ND	0.4	ND	2.0	0.2	ND	0.2	ND	. 0.2
Ethylbenzene	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene	0.1	ND	ND	ND	ND	0.3	ND	1.1	0.1	ND
Toluene	0.1	ND	ND	0.5	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	0.1	ND	ND	ND	2.0	ND	0.1	ND	ND	18.4
Trichloroethylene	0.1	ND	s ND	ND	1058	5.0	24.6	2.6	ND	12.7
Vinyl Chloride	0.5	ND	ND	ND	ND	ND	ND	3.5	ND	ND
OTHER (mg/l)										
Alkalinity, as										
Calcium Carbonate	20			39	38	. 228	58	324	50	35
Hardness, as Calcium										
Carbonate	1.0			36.0	94.0	326.0	143.0	401.0	52.0	98.0
COD	10			24	ND	ND	ND	33	ND	ND
Dissolved Iron	0.004		0.007	0.197	0.162	0.074	1.290	0.098	0.101	0.039

NOTES:

ND . Analyzed but not detected

--- No analysis performed

• • [•]

Table 9 STANDARDS, CRITERIA AND GUIDELINES FOR DRINKING WATER (ug/L)

				Safe Drinki	ng Water Act		Ambient Criteria Q (adjuste	Water Wality				
	Wisconsin Groundwater Quality Standards			Proposed Primary	Pinal Primary	Proposed Primary			U.S. EPA Health Advisories			
			Primary				Toxicity	Risk	l-day	10-day	Chronic	
	Enforcement	Preventive	<u>BCL</u>	NCL	RHCL	RHCL	10	10	10-kg	<u>10-kg</u>	10-kg	70-kg
Carbon Tetrachloride				5	0			0.42	4,000	160	71	500
Chloroform			100 ⁸					0.19	-	•		
1,2-Dichloroethane	0.5	0.05		5	0			0.94	740	740	740	2,600
1,2-Dichloroethens						70			2,720	2,720	1,000	3,500
Dichloromethane	150	15						0.19	13,300	1,500	-	
Ethy lbenzene						680	2,400		21,000	21,000		
Tetrachloroethene	1	0.1						0.8		34,000	1,940	6,800
Toluene	343	68.6				2,000	15,000		18,000	6,000	-	
1,1,1-Tricbloroethane	200	40		200	200		19,000		140,000	35,000	35,000	12,500
Trichloroethene	1.8	0.18		5 '	0			2.8				
Vinyl Chlori de	0.015	0.005		1	Ο.	•		2	2,600	2,600	13	46

o Wisconsin Groundwater Quality Standards from Chapter NR140.

- o Safe Drinking Nater Act (SDNA) Primary Interim, Maximum Contaminant Levels (MCL's) Enforceable drinking water standards not entirely health based.
- o SDNA Proposed Pinal MCL's Enforceable drinking water standards proposed currently for volatile organic compounds (VOC's) with other chemicals to follow over time.
- o SDNA Proposed and Pinal Recommended Maximum Contaminant Levels (RMCL) Nonenforceable health goals for drinking water set at a level representing "no known or anticipated adverse effects on the health of persons ... allows an adequate margin of safety."
- o SDWA Health Advisories (HA's) ~ Short-term risk assessments for noncarcinogen end points of toxicity. Considered to be exposure levels which will result in adverse health effects over a specified short time period (1 day, 10 day, longer term).

EPA has used the 10-day Health Advisory as a factor in decision making for contaminated drinking water incidents.

o Clean Water Act (CNA) Ambient Water Quality Criteria (AMQC) Adjusted ~ Criterion to protect human health adjusted to account for drinking water only (excludes fish ingestion).

o SDWA Secondary MCL's - Welfare based drinking water quality goals.

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- a) Based on MCL for total tribalomethanes.
- b) Proposed November 13, 1985 50FR 46902

1990 CHA

c) Proposed November 13, 1985 50PR 46936

- d) Adjusted so that drinking water is the only source of contaminant Superfund Public Health Evaluation Manual. U.S. EPA, 1985.
- e) From the Office of Water, U.S. EPA.

The 0.4 ug/L of 1,2-dichloroethane in the samples from well 4S exceeded the State of Wisconsin Groundwater Standard .SPWA? for preventive measures.

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The level of tetrachloroethene in the sample taken from well 4S during January exceeded the State of Wisconsin Enforcement standards and the Clean Water Act (CWA) criteria cancer risk. The criteria in Table 9 have been for the 10 adjusted to account for drinking the water; the component of the criteria that accounts for consuming fish that live in contamipated water has been removed. The CWA criteria for the 10^{-6} cancer risk is based on a 70-kg individual drinking the contaminated water for 70 years. The state preventive standard for tetrachloroethane was met or exceeded in at least one sample taken from wells 2, 3, 6, and 4D.

The levels of trichloroethylene (TCE) in water from wells 2, 3, 4D, and 7 exceeded all standards, criteria, and guidelines. The levels detected in 4S exceeded the state's preventive standard.

The levels of vinyl chloride detected in well 4S exceeded the CWA criteria for the 10^{-6} cancer risk and the state st cancer risk and the state standards.

ANALYSIS

The analytical results of the groundwater taken from some of the monitoring wells contained the chlorinated volatile compounds TCE, dichloroethylene (DCE), and vinyl chloride. TCE may biodegrade in the anaerobic environment in the subsurface to form the cis and trans isomers of 1,2-dichloroethylene, which may degrade to vinyl chloride (Mackay, et al., 1985).

At concentrations exceeding their solubility in water, compounds with specific gravities greater than water (1.63 for TCE, and 1.46 for DCE) would tend to sink into the aquifer. Further, these compounds would fall vertically in the aquifer, despite horizontal components in groundwater flow (Mackay, et al., 1985). The tendency to sink would be complemented if the dense compound were spilled in a groundwater recharge area, where there would be a downward gradient. Once the compounds are in the subsurface they may degrade and they may go into solution slowly, reducing the contaminant concentration at one point while dispersing the compound and its degradation products with groundwater movement.

The contaminants observed in the monitoring wells were at concentrations greatly below their solubilities in water. The denser contaminants in the groundwater, such as TCE, could be from a variety of sources, including:

- o Groundwater moving through the landfill
- o Unidentified filled areas
- A large spill in which the immiscible portion sank into the aquifer
- o Small spills near or upgradient from the landfill

A large spill could affect groundwater quality if it occurred either near the landfill or some distance away. Further, it could affect groundwater quality for some time as it slowly disperses and is transported with the groundwater.

Vinyl chloride, a degradation product of TCE with a specific gravity of 0.91, was detected in well 4S. The less dense vinyl chloride would not sink into an aquifer, but rather would go into solution and move with the aquifer in a relatively small spill, or would "float" on top of the water table if the amount released exceeded its solubility limit in water. Alternatively, the vinyl chloride could be the result of the degradation of TCE carried in the groundwater to this point, where it may be rising because of its low specific gravity or because of upward groundwater gradients at this discharge point.

As part of this project, manufacturing property ownership within one-half mile of the landfill was investigated to locate other sources of contamination observed at the site. The property boundaries are shown in Figure 1 and the owner and type of business at the property, where known, is noted in Table 1. With the exception of Marathon Electric, it does not appear that there are any businesses upgradient of the landfill that could be contributing to the observed contamination. This does not rule out former businesses in the area, spills along the railroad tracks, or old filled areas. Additional monitoring wells and observation of groundwater levels, well pumping patterns, and river levels over an extended period would be necessary to determine if Marathon Electric is responsible for the observed contaminant levels. With the additional information, it may be difficult to determine if the contamination is due to Marathon Electric, the landfill, or an unknown source.

RECOMMENDATIONS

The monitoring well network detected contaminants on the north side of the landfill. Additional well nests would be needed to determine if the contamination is coming from the landfill, or is coming onto the site from other sources. The well nests should be placed to the north of the Marathon Electric Company property. The nests should include monitoring wells in the top of the water table and at least one deeper piezometer. To get an accurate feel for the groundwater flow patterns, it would be necessary to monitor groundwater and river levels for at least one year. The flow patterns should be further refined by taking concurrent water level measurements in other monitoring wells on the west side of the Wisconsin River.

Contaminants that have or are leaving the landfill through the groundwater or the storm sewer (Figure 2) may be in the sediments adjacent to the landfill. The contaminants detected in the monitoring wells are of greater density than water and are attracted to organic material as would be found in the sediments. Since the Wisconsin River is dammed south of the site, the slower moving water might have allowed the contaminants to settle into the sediment. The sediment could be adversely affecting aquatic life and surface water quality and should be sampled. Samples should also be collected upstream of the landfill to provide background contaminant levels.

Since the extent and source of the observed contamination have not been identified, applicable remedial actions cannot be identified.

LIMITATIONS

This report has been prepared for exclusive use by the Wisconsin Department of Natural Resources specifically for investigating the release of contaminants from the City of Wausau Landfill. The analyses and recommendations contained in this report are based, in part, on the data obtained from borings. Borings indicate conditions only at specific locations and times, and only to the depths penetrated. They do not necessarily reflect variations that may exist between locations. If variations in subsurface conditions from those described are noted during additional investigations, recommendations in this report may need to be reevaluated.

CH2M HILL is not responsible for any claims, damages, or liability associated with interpretation of subsurface data or reuse of the subsurface data or engineering analyses without the express written authorization of CH2M HILL.

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Appendix A SCOPE OF WORK AND WORK PLAN

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Scope of Work

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For the Investigation of an Abandoned City of Wausau Landfill

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This is the scope of work for the investigation of an abandoned City of Wausau landfill. The landfill is located in the NW4, SE4, Section 23, T29N, R7E, City of Wausau, Marathon County. The site is now occupied by Marathon Electric Company and is a parking lot for the firm.

- I. Description of Work and Products. The contractor agrees to provide the following to the satisfaction of the Department:
 - A. Provide consultant services to investigate the contamination of the Wausau water supply by investigating the environmental impact of the abandoned landfill. The consultant will be expected to conduct the investigation, compile an Existing Conditions Report, and submit the report to the Department, using acceptable engineering methods and in conformance with the provisions of NR 180.06(1)(c).
 - 1. The Existing Conditions Report shall include, at a minimum:
 - a. A plan sheet based upon a <u>recent</u> Department of Transportation air photo indicating the existing buildings, roads, water supplies, property ownership, etc., within a 1/2-mile radius of Marathon Electric.
 - b. A plan sheet indicating the existing surface features of the area within ½ mile of the landfill. The plan shall include 2 ft. topographic contours based upon the City of Wausau topographic maps and a minimum scale of one inch = 200 feet. The surface feature plans shall also indicate existing buildings, property boundaries, roads, and water supplies, etc.

In conjunction with the topographic survey, a permanent on-site benchmark shall be installed for vertical and horizontal control. All elevations shall be related to USGS datum, and all monitoring points shall be vertically located to msl to the nearest .01 foot and horizontally to the nearest foot.

- c. Two plan sheets showing geologic cross sections passing through the borings, indicating topography, boring locations, soils, bedrock, and stabilized groundwater level readings.
- d. A plan sheet indicating groundwater contours and vertical gradients, superimposed on the topographic survey indicated in I.A.lb.

- e. Plan sheets showing cross sections (two north/south, two east/west) passing through the borings (or based upon geophysical investigation using the recommended technique to illustrate the existing topography, boring locations, soils, bedrock, water level readings and waste disposal areas.
- f. A result and discussion section discussing the extent of contamination, the potential for further degradation of the groundwater, the potential source of the contamination, additional work required, and the need for and type of remedial action indicated.
- g. An appendix containing all raw data such as boring logs, well logs, soil tests, water level and groundwater quality measurements, laboratory quality assurance data, atc.
- h. Ten copies of the report shall be provided to the Department's North Central District Office.
- B. The consultant may be called upon for legal testimony in a court of law.
- C. Field Investigations.
 - 1. Prior to beginning the field investigation an organizational meeting shall be held between the consultant and Department personnel to clarify all issues related to the project.
 - 2. Perform a geophysical survey of the area comprising the adjacent abandoned landfill using resistivity or another technique recommended by the consultant and approved by the Department. The purpose of the survey will be to identify soils, water levels, contaminant plumes, fill or waste disposal areas, and provide guidance for location of the soil borings and monitoring well installations.
 - 3. Soil borings shall be performed to define soil, groundwater conditions and, where appropriate, bedrock depth.

The purpose for the borings and well installations is to assess the level of contamination by volatile organic compounds. Drilling methods and materials shall be utilized which allow for a VOC and inorganic chemical determination of the soil and groundwater.

a. A total of 6 borings will be required, three to a depth of 40 feet below the groundwater table and one boring to bedrock. These borings will be used for the installation of 6 monitoring wells.

- b. Soil samples shall be collected from the borings, well installations, and piezometers using standard undisturbed soil sampling technique. Soil samples shall be collected at a maximum of every five feet and at the surface of any soil layer encountered.
- c. Soils shall be classified according to the unified soil classification system, using a grain size distribution and mechanical and hydrometer analysis.
- d. All soil samples shall be preserved for possible future analysis of volatile organic chemicals (VOCs).
- e. Boring logs for each boring shall be provided, with special note made of appearance and odor of each sample.
- 4. Monitoring Well/Piezometer Installation.
 - a. A total of 6 monitoring wells and 3 piezometers shall be installed at locations approved by the Department.
 - b. Construction of the wells and piezometers shall conform to the Department's draft monitoring well installation guidelines.
 - Monitoring wells will utilize a 15-foot screen,
 10 feet placed into the groundwater and 5 feet above.
 - d. Piezometers will utilize a five-foot well screen, scaled just above the bedrock.
 - e. Selected soil samples obtained during the piezometer installation may be analyzed for VOCs. Samples shall be collected every five feet and at any soil layer encountered. All samples will be preserved for future VOC analysis.
 - f. All wells and piezometers shall be properly developed, and the development procedures shall be documented.
 - g. Well construction logs shall be provided for each well. The top of each well casing shall be surveyed to msl datum.

5. Environmental Monitoring.

a. All soil and groundwater quality analysis shall be done using EPA Standard Methods. Quality control and assurance data (including the results of the trip blanks, duplicate analysis, and spiked recovery analysis and detection limits) shall be provided for all analyses.

- b. Eighteen soil samples (to be selected by the Department with consultants advice) shall be analyzed for volatile organic carbon compounds. The analysis of additional soil samples may be requested.
- c. Three sets of groundwater samples shall be obtained from each monitoring point and analyzed for VOCs, pH, temperature, conductivity, COD, hardness, alkalinity, and dissolved iron. The three sets of samples shall be taken 14 days apart. The Department shall be notified of the sampling and provided with the opportunity to obtain split samples.
- II. Department Support
 - A. The Department shall assign a project manager to serve as the official representative of the Department and to resolve, in writing, any problems or policy issues.
 - B. The Department shall be responsible for all public information activities associated with the project.

II. SCOPE OF SERVICES

This scope of work sets forth the requirements for developing an assessment of the environmental impacts associated with the abandoned City of Wausau landvill located in Section 23, T29N, RO7E, City of Wausau, Marathon County.

- (I) Consultant Responsibilities: The Consultant agrees to provide the services necessary to adequately investigate the environmental impacts of the abandoned City of Wausau landfill. The Consultant will be required to conduct the investigation, compile the information into an Existing Conditions Report, and submit 8 copies of the report to the North Central District Office located in Rhinelander and 2 copies to Bureau of Solid Waste Management in Madison. This report shall be prepared using currently accepted hydrogeologic and engineering methods and shall be in conformance with the provisions of NR 180.06(1)(c).
 - (A) The On-Site Field Investigation shall include:
 - (1) Prior to beginning the field investigation organizational meetings shall be held between the Consultant and Department personnel to clarify all issues related to the project.
 - (2) Site Survey
 - (a) An existing site conditions plan sheet shall be prepared A permanent on-site benchmark shall be established for both vertical and horizontal control, and all elevations shall be related to U. S. Geological Survey Datum. The plan sheet shall indicate the locations of the study area, site boundaries, property boundaries, filled areas, buildings, water supply wells, above and below ground utilities, man-made features, surface waters, soil borings, groundwater monitoring wells, and other pertinent information. The plan sheet shall also include a 100 foot survey grid and north arrow.

(3) Soil Borings

- (a) The Consultant shall perform 9 soil borings to define the soil, bedrock and groundwater conditions at the site. The locations of the borings must be approved by the project manager prior to installation. The 9 soil borings will also be used to install monitoring wells and piezometers.
- (b) Where soil conditions permit, soil samples shall be collected utilizing standard undisturbed soil sampling techniques. Samples shall not be composited for testing purposes. Soil samples shall be collected from each soil layer encountered and at maximum 5-foot intervals. All soil samples shall be described.
- (c) Boring logs shall be recorded for all borings. Each log shall include soil and rock descriptions and method of sampling, sample depth, date of boring, water level measurements and dates, and soil test data. All elevations shall be corrected to USGS datum.

- (d) For each major soil layer encountered, a soil sample shall be analyzed for grain size distribution (mechanical and/or hydrometer as appropriate to the soil type) and classified according to the unified soil classification system.
- (4) Monitoring Wells and Piezometer Nests
 - (a) The Consultant shall install 6 monitoring wells and 3 piezometers. The locations of the wells must be approved by the project manager prior to installation.
 - (b) Monitoring wells will utilize a 15-foot screen, 10 feet placed into the groundwater and 5 feet above.
 - (c) Piezometers will utilize a five-foot well screen, the bottom of the screen should be just above bedrock.
 - (d) All wells and piezometers shall be properly developed, and the development procedures shall be documented.
 - (e) The construction of each well shall be recorded on logs. Well log information shall include the elevations of the pipe top, ground surface, bottom of the boring, well seals and screened interval, and a description of the well construction materials. For each well, the Department's Groundwater Monitoring Well Information Form (Form 4400-89) shall be completed.
 - (f) The installation of each well shall conform to the standards set forth in the Department's Bureau of Solid Waste Management document titled <u>Guidelines for Monitoring Well Installation</u> (April 1985).
- (5) Environmental Monitoring
 - (a) The consultant shall collect and analyze 18 soil samples to determine the concentrations of volatile organic carbon compounds.
 - (b) All soil sample results shall be in units of mg/kg on a dry weight basis.
 - (c) The method of collecting the soil samples and the locations shall be determined by the project manager prior to commencing work.
 - (d) The consultant shall collect and analyze 2 sets of groundwater samples to determine the concentrations of the following constituents: VOC's, ph, COD, temperature, conductivity, hardness, alkalinity, dissolved iron. The second set of groundwater samples shall be collected 30 days after the first round is collected. In the second round of groundwater quality samples the complete volatile organic compound scan will not be required. A maximum of 5 specific compounds will be identified for analysis based on the results of the first round VOC scan.

- (e) The method of collecting the groundwater samples and sample collection internval shall be determined by the project manager prior to commencing work.
- (B) The Existing Conditions Report shall include:
 - (1) Summary Section
 - (a) The nature and extent of contamination at the site should be described in a way that establishes a framework for determining remedial objectives and defines criteria for selecting remedial objectives and defines criteria for selecting remedial action alternatives.
 - (b) A discussion of the potential for further envirionmental impact as indicated by the monitoring results.
 - (c) A description or tabulation of the relevant environmental criteria and standards that form the need for remedial action.
 - (d) A discussion of the remedial action alternatives with clear statements of their advantages and disadvantages. At the end of this comparative analysis, the recommended remedial action should be identified and the reason for its selection given.
 - (2) Plan Sheets Section
 - (a) An existing site conditions plan sheet as required by A.l.a. of this contract.
 - (b) A minimum of 4 geologic cross-sections passing through all borings that illustrate existing topography, soil borings, soil classification and other properties, interpreted soil stratigraphy, bedrock, monitoring wells, and stabilized water level readings.
 - (c) A water table map based on stabilized water level readings. The existing site conditions plan shall be used as a base for this map.
 - (d) A plan sheet based upon a recent Department of Transportation air photo indicating the existing buildings, roads, water supplies, property ownership, etc., within a 1/2 mile radius of Marathon Electric.
 - (3) Technical Data Section
 - (a) All technical data such as boring logs, well logs, soil tests, water level measurements, soil and groundwater analysis, horizontal and vertical groundwater gradients, laboratory quality assurance data, etc.

- (II) State of Wisconsin Responsibilities: The State of Wisconsin through the Department of Natural Resources agrees to provide the following support:
 - (A) The Department will assign a project manager to serve as the official representative of the Department, and who will resolve in writing any problems or policy and procedure issues.
 - (B) The Department will be responsible for all public information activities associated with the project.
- (III) Consultant's Compensation. For services requested above, the Consultant shall be paid on a time and material basis using the rate schedule shown below. Total payments to the Consultant shall not exceed \$45,690 without prior written approval.

Rate Schedule

Employee Time	2.9 times actual salary
Mileage	21.5¢ per mile
Subcontractors	at cost
Meals and Lodging	at cost
Other Direct Project Costs	at cost

All requests for payment must include proper backup material to substantiate the amount requested. Fee amounts are to be itemized by employee or classification as applicable. Reimbursable expenses must be supported by copies of invoices, statements or other office records.

ATTACHMENT A

INTRODUCTION

On August 21, 1985. the Wisconsin Department of Natural Resources (WDNR) requested that CH2M HILL prepare a cost estimate for a limited investigation of the City of Wausau Landfill located under a parking lot owned by Marathon Electric Company. The scope of work prepared by the WDNR is included in Appendix A.

In this work plan, the tasks outlined by WDNR are further defined and a cost estimate is provided. CH2M HILL has reorganized the tasks as follows:

Task 1-Assemble Project Team Task 2-Evaluate Existing Data Task 3-Prepare Health and Safety Plan Task 4-Hydrogeologic Investigation Task 5-Environmental Monitoring Task 6-Report Preparation

The following sections provide further definition of these tasks and budgets for each task.

OBJECTIVES

The primary objectives of this investigation are to:

o Determine, within the acope specified by the WDNR, the potential for and types of comtaminants that may be leaving the City of Wausau Landfill, the extent of any existing contamination, and the potential for contamination of the Wausau water supply.

o Identify potential remedial actions that might be required at this site.

o Evaluate the need for additional investigations based on existing data and data generated by this investigation.

All tasks and subtasks are directed toward accomplishment of these objectives.

SITE INVESTIGATION

TASK 1-ASSEMBLE PROJECT TEAM

This task provides time for coordination between the WDNR and CH2M HILL in meetings, meeting preparation, and telephone conferences. The estimated budget allows for 2 people to attend 3 meetings with the WDNR. In one of these meetings, the boring 1c tion plan and monitoring well installation details will be de __mined by CH2M HILL and WDNR. One meeting was budgeted for a __p to Wausau and the other two meetings were budgeted for tr __s to Madison. An additional three mandays were budgeted fc __meeting preparation and telephone conferences.

TASK 2-EVALUATE EXISTING DATA

To most efficiently execute this investigation, it will be necessary to obtain available information concerning the landfill, its operating history, its environmental setting, and documented contamination. This information will be requested from the WDNR offices in Madison and Rhinelander and from the City of Wausau. During this task, a topographic map of the site will be obtained from the City of Wausau and aerial photography will be obtained from the Wisconsin Department of Transportation.

The budget for this task allows one data collection trip to Wausau and Rhinelander. Also budgeted are five days to evaluate the data and summarize the site history and environmental setting.

TASK 3-PREPARE HEALTH AND SAFETY PLAN

A health and safety assessment will be conducted to determine if the site has potentially hazardous chemical exposure levels in the air or dangerous physical features. The resultant information will be used to select and implement adequate warnings and safeguards for investigators or other onsite visitors. All available site information will be examined to select possible sources of hazardous air emissions and potentially hazardous areas. A site visit will be conducted in conjunction with the data gathering trip to Wausau.

The health and safety assessment will be used to develop a site health and safety plan that will specify the field monitoring to be performed and the protective gear to be worn by site investigators and visitors. The plan will focus on the use of personal protective equipment to minimize exposure to hazardous materials through inhalation or direct contact when performing work on or near the site.

TASK 4-HYDROGEOLOGIC INVESTIGATION

The hydrogeologic investigation will be conducted to:

o Identify the horizontal and vertical extent of groundwater contamination to the detail allowed by the limits of the scope of this investigation o Acquire geologic, hydrogeologic and analytical data sufficient for a general assessment of potential future groundwater contamination

o Gather data that will assist in determining potential remedial actions

o Determine the scope and need for additional hydrogeologic investigations

The hydrogeologic investigation has been divided into the following aubtasks:

Subtask 4.1-Install Groundwater Monitoring System Subtask 4.2-Surveying Subtask 4.3-Monitor Groundwater Levels Subtask 4.4-Analysis of Hydrogeologic Data

Subtask 4.1-Install Groundwater Monitoring System

The purpose of this subtask is to drill borings, sample soil and install monitoring wells and piezometers. The locations for the monitoring wells and piezometers will be determined by CH2M HILL and the WDNR after additional site data have been obtained (Task 2). The monitoring wells and piezometers will be constructed according to the WDNR's draft monitoring well installation guidelines, unless variances from these guidelines are requested of and approved by the WDNR.

A total of six monitoring wells and three piezometers will be installed. For the purposes of this proposal, it was assumed that the three piezometers will be installed in bedrock at a depth of 100 feet, and the six monitoring wells will be installed 10 feet below the water table (assumed to be 15 feet below the ground surface). Soil samples will be collected in all borings at 5-foot intervals and five feet of rock core will be recovered from the three deep borings. This will result in an estimated 450 feet of drilling with standard penetration testing, 15 feet of rock drilling, and 450 feet of monitoring well or piezometer installation.

Borings will be logged by a geologist or hydrogeologist. Soil samples will be preserved for index testing. The index testing may include grain size distribution or Atterberg limits tests. For this cost estimate, it has been assumed that 10 Atterberg limits and 15 grain size analyses will be performed.

After the monitoring wells and piezometers have been installed, they will be developed by surging, overpumping, or airlifting to establish good hydraulic connection with the surrounding soil. Once the wells have been fully developed, aquifer response tests may be performed to obtain in situ measurements of aquifer hydraulic conductivity.

Subtask 4.2-Surveying

A permanent on-site benchmark will be established to provide horizontal and vertical control of monitoring locations. The elevation will be related to USGS datum.

Once all the monitoring wells are properly installed, their locations and elevations will be surveyed. Vertical elevations will be obtained to the nearest 0.01 foot for the top of riser, top of protective casing, and ground surface at each well.

Subtask 4.3-Monitor Groundwater Levels

The water level monitoring program will define water table gradients in the vicinity of the landfill and assess surface water and groundwater relationships. Water levels will be measured form the top of the standpipe using a steel tape, stainless steel popper, or an electric water level indicator. Measurements will be made to the nearest 0.01 foot. Groundwater and surface water level measurements will be taken at the time that the two sets of water quality samples are collected (Task 5). Travel expenses are included with those for Task 5.

Subtaak 4.4-Analyais of Hydrogeologic Data

This subtask will be performed to compile and analyze the data from this investigation and other investigations that could provide insight to the hydrogeology and potential for contaminant migration from this landfill. Two north-south cross sections and two east-west cross sections will be prepared during this subtask. The direction(a) of groundwater flow will be analyzed to the extent allowed by this investigation.

TASK 5-ENVIRONMENTAL MONITORING

Groundwater samples will be collected twice from each of the monitoring wells and piezometers for field or laboratory analysis. the first round of samples will be analyzed for VOC's, pH, temperature, conductivity, COD, hardness, alkalinity, and dissolved iron. The second round of sampling will occur 30 days after the first round. Analyses will be the same except that a maximum of 5 specific compounds will be selected for analysis rather than all VOC's.

Eighteen of the soil samples collected from the soil borings will be selected by the WDNR with recommendations from CH2M HILL to be analyzed for VOC's.

The samples will likely be sent to Zimpro of Rothschild, WI for analysis. The sampling program described above will result in 18 groundwater samples plus 2 blank samples and 2 duplicate samples for a total of 22 groundwater samples. Eighteen soil samples plus 2 duplicates and 1 blank sample will be submitted for a total of 21 soil samples.

TASK 6-REPORT PREPARATION

The findings of this investigation will be summarized in a report of existing site conditions. This report will follow the requirements of the scope of work prepared by the WDNR and any additional items that are required to adequately present the data generated in this investigation. The report will include a section discussing the extent of contamination, the potential for degradation of the groundwater, an analysis of the landfill as a potential source of contamination, recommendations for additional work, and potential remedial actions for the site.

Raw data generated during the investigation will be included in appendices to the report. Eight copies of the report will be provided to the WDNR's North Central District Office in Rhinelander and 2 copies will be provided to the Bureau of Solid Waste Management in Madison.

PROJECT COST

The estimated coat to complete this project is broken down in Table 1. The assumptions used to arrive at this estimate were stated in the previous discussion. If a task or subtask appears to be going over budget or if CH2M HILL feels that the scope change is necessary to meet the objectives of this investigation, the WDNR's project manager will be contacted for a resolution of the matter in question.

Appendix B DESCRIPTION OF FIELD METHOD

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DESCRIPTION OF FIELD AND LABORATORY METHODS

Standard Penetration Test

Representative samples of materials encountered in the borings were obtained at 5-foot intervals with a standard 2-inch outside diameter split-spoon sampler, following the requirements of the Standard Penetration Test (ASTM D 1586). This test is used to characterize the consistency or density of in-place soil by measuring the penetration resistance expressed as "blow counts". The blow count is the number of blows required to advance a standard split-spoon sampler 6 inches with a 140-pound hammer falling 30 inches. The sampler is driven 18 inches, and the blow count is recorded for each 6-inch increment. The sum of the second and third increments is referred to as the N-value. Low N-values indicate soft or loose deposits, while high N-values are indictive of hard or dense materials. After the sampler has been driven and the blow counts recorded, the sampler is withdrawn from the boring to recover a disturbed soil sample.

Soil samples were examined in the field and visually classified in approximate accordance with the visual-manual proceedure for description of soils (ASTM D2488). Sampling intervals and classification of soil samples are presented in the boring logs. Field soil boring logs were revised as necessary based on laboratory testing and office examination.

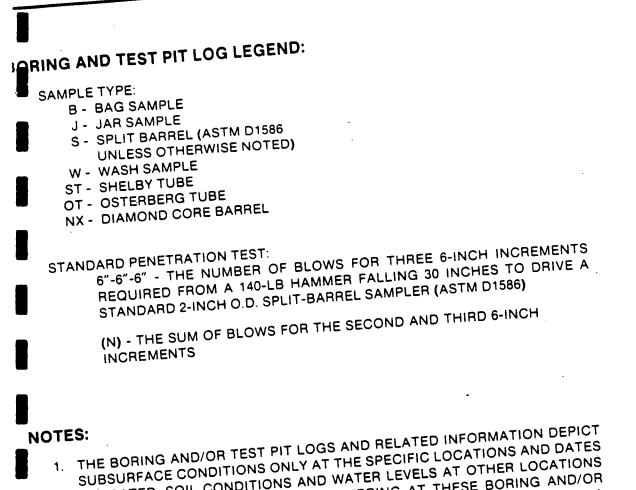
Natural Water Contents

The moisture content of the soil at the time of sampling is determined in the laboratory in general accordance with ASTM D 2216.

Grain Size Analyses

Grain size analyses are performed to help classify the soil and to determine the suitability of 1the soil for use as backfill material. Grain size distriabutions are determined by sieve analysis and hydrometer analysis in approximate accoardance with ASTM D 422. The percent of soil material finer than the No. 200 sieve is determined in approximate accordance with ASTM D 1140.

Appendix C BORING LOGS AND PIEZOMETER INSTALLATION SKETCHES



1. THE BORING AND/OR I LOT MALE AT THE SPECIFIC LOCATIONS AND DATES SUBSURFACE CONDITIONS ONLY AT THE SPECIFIC LOCATIONS AND DATES INDICATED. SOIL CONDITIONS AND WATER LEVELS AT OTHER LOCATIONS MAY DIFFER FROM CONDITIONS OCCURRING AT THESE BORING AND/OR MAY DIFFER FROM CONDITIONS OCCURRING AT THESE BORING MAY RESULT IN A TEST PIT LOCATIONS. ALSO, THE PASSAGE OF TIME MAY RESULT IN A CHANGE IN THE CONDITIONS AT THESE LOCATIONS.

2. BORINGS AND/OR TEST PITS WERE LOGGED IN THE FIELD BY A CH2M HILL ENGINEERING GEOLOGIST OR GEOTECHNICAL ENGINEER. SAMPLES WERE EXAMINED AND VISUALLY CLASSIFIED IN APPROXIMATE ACCORDANCE WITH ASTM D2488.

BORING AND TEST PIT LOG LEGEND



CH2M HILL

RECEIVED Wis. Dept. of Natural Resources

December 24, 1985

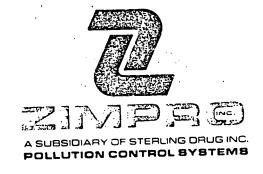
DEC 30 1985

N. C. Dist. Hdatrs. RHINELANDER, WI

Gary--

We just received the Zimpro data, so I thought that I would send it for your information. I couldn't remember if I sent you the boring logs, so copies are included, along with well installation sketches and form 4400. The Guidelines for Monitoring Well Installation did not indicate which DNR office should receive the form 4400, so contact me if it needs to be sent to a different office.

Shara





December 18, 1985

Ms. Shara Mount McBee CH2M Hill 310 W. Wisconsin Ave. Suite 700 P.O. Box 2090 Milwaukee, WI 53201

Dear Shara:

Attached are the results for the samples taken during the month of November in the Wausau area.

The VOC analysis was done according to EPA Method 601, a purge and trap/gas chromatographic method using PID (9.5 eV) and Hall detectors in series for detection and quantitation.

The soil samples analyzed for VOC's were done according to the low level method for soil/sediment samples. This involves taking a weighed portion of soil, adding a specific amount of reagent water to it and analyzing by EPA Method 601 as for the water samples.

The VOC results for the water samples appear in Tables 1, 2, 4, 5, and 6 and are expressed in ug/1. Table 3 contains the VOC results for the soil samples, results are based on the dry weight of the soil and expressed in ng/g.

Analysis of alkalinity, hardness, COD, cyanide and phenols were done in accordance with EPA methods. Arsenic and selenium were done by furnace AA and mercury by cold-vapor AA methods. All other metals were analyzed by ICP emission spectroscopy. Results for the soil biomass (Table 7) are expressed in ug/g on a dry weight basis. Detection limits vary slightly for the soil samples because the sample size varied. Ms. Shara Mount McBee December 18, 1985 Page 2

Results for the water samples (Table 8) are expressed in mg/l.

If you have any questions, please call.

Sincerely,

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ZIMPRO INC.

Mary C. Christie-Heuser Mary C. Christie-Heuser

Instrumentation Chemist

MCCH/ls

cc: J.W. Barr J.R. Salkowski

Table 1 CH₂M Hill VOC Analysis (ug/1) November 12, 1985

	Detection Limit	WB-HSA-1	WB-ROT-1	WB-HSA-2
Benzene	Ø.2	X	Х	X
Bromoform	ø.5	X	Х	Х
Bromomethane	1.0	Х	X	Х
Carbon Tetrachloride	Ø.1	х	Х	Х
Chlorobenzene	Ø.1	Χ.	Х	Х
Chloroethane	1.0	х	Х	Х
2-Chloroethylvinyl Ether	2.0	X	Х	Х
Chloroform	Ø.1	68.4	70.6	Ø.1
	6.0	X	X	Х
Chloromethane Dibromochloromethane	Ø.1	Ø.2	Ø.2	Х
	Ø.3	X	X '	Х
1,2-Dichlorobenzene	Ø.3	x	X	Х
1,3-Dichlorobenzene	Ø.3	X	X	X
1,4-Dichlorobenzene	Ø.1	4.5	4.2	X
Dichlorobromomethane	Ø.1	X	x	X
1,1-Dichloroethane	Ø.3	X	X	x
1,2-Dichloroethane		X	X	x X
1,1-Dichloroethylene	Ø.5	X	X	x
1,2-Dichloroethylene	Ø.3		X	X
Dichloromethane	Ø.2	X	X	X
1,2-Dichloropropane	Ø.5	X	X	X
cis-1,3-Dichloropropene	Ø.3	X		X
trans-1,3-Dichloropropene	1.0	X	X X	X
Ethylbenzene	Ø.2	X		X
1,1,2,2-Tetrachloroethane	0.1	X	X	
Tetrachloroethylene	Ø.1	Ø.1	Ø.1	X
Toluene	0.1	X	Ø.5	Ø.4
1,1,1-Trichloroethane	0.1	X	X	X
1,1,2-Trichloroethane	Ø.1	X	X	X
Trichloroethylene	Ø.1	1.0	Ø.4	X
Vinyl Chloride	Ø . 5	х	х	X
Zimpro Analytical No.		14932	14933	14939

X = Analyzed but not detected

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Table 2 CH₂M Hill VOC Analysis (ug/l) November 14, 1985

	Detection Limit	WB-HSA-3	WB-ROT-2	WB-ROT-4
Benzene	Ø.2	X	X	X
Bromoform	0.5	Х	Х	X
Bromomethane	1.0	Х	X	Х
Carbon Tetrachloride	Ø.1	Х	X	Х
Chlorobenzene	Ø.1	Х	Х	Х
Chloroethane	1.0	Х	X	Х
2-Chloroethylvinyl Ether	2.0	X	X	Х
Chloroform	Ø.1	Ø.1	Ø.2	Х
Chloromethane	6.0	Х	Х	X
Dibromochloromethane	Ø.1	Х	Х	Х
1,2-Dichlorobenzene	Ø.3	Х	Х	Х
1,3-Dichlorobenzene	Ø.3	X	Х	Χ.
1,4-Dichlorobenzene	0.3	Х	Х	Х
Dichlorobromomethane	0.1	Х	X	Х
1,1-Dichloroethane	Ø.1	Х	Х	Х
1,2-Dichloroethane	Ø.3	Х	Х	Х
1,1-Dichloroethylene	Ø.5	Х	Х	X
1,2-Dichloroethylene	Ø.3	X .	Х	X
Dichloromethane	Ø.2	Х	X .	X
1,2-Dichloropropane	Ø.5	Х	X	Х
cis-1,3-Dichloropropene	Ø.3	X	X	Х
trans-1,3-Dichloropropene	1.0	X	· X	Х
Ethylbenzene	Ø.2	х	Ø.4	Χ.
1,1,2,2-Tetrachloroethane	Ø.1	Х	X	Х
Tetrachloroethylene	Ø.1	Х	Ø.3	Ø.1
Toluene	Ø.1	Ø.2	1.2	X
1,1,1-Trichloroethane	Ø.1	Х	X	X
1,1,2-Trichloroethane	Ø.1	Х	. X	Х
Trichloroethylene	Ø.1	X	Х	X
Vinyl Chloride	Ø.5	X	Ø.7	X
Zimpro Analytical No.		14983	14984	14985

X = Analyzed but not detected

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Table 3 CH₂M Hill Soils VOC Analysis (ng/g) November 19, 1985

	Detection Limit	SL-B2-24	SL-B4S-34	SL-HSA-2	SL-HSA-3	SL-HSA-4
Benzene	Ø.8	Х	Х	Х	X	X
Bromoform	2.0	Х	Х	Х	Х	X
Bromomethane	4.0	Х	Х	Х	х	х
Carbon Tetrachloride	Ø.4	Х	Х	Х	х	X
Chlorobenzene	Ø.4	Х	Х	Х	Х	X
Chloroethane	4.0	Х	X	Х	Х	X
2-Chloroethylvinyl Ether	8.0	Х	Х	Х	Х	X
Chloroform	Ø.4	Х	Х	Х	Х	X
Chloromethane	24.0	Х	Х	Х	X	X
Dibromochloromethane	Ø.4	х	Х	Х	X	Х
1,2-Dichlorobenzene	1.2	Х	Х	X	X	x
1,3-Dichlorobenzene	1.2	Х	Х	Х	Х	X
1,4-Dichlorobenzene	1.2	Х	Х	Х	X	х
Dichlorobromomethane	Ø.4	Х	Х	X	Х	X
1,1-Dichloroethane	Ø.4	Х	Х	X	Х	X
1,2-Dichloroethane	1.2	Х	Х	Х	Х	X
1,1-Dichloroethylene	2.0	· X	Х	X	Х	Х
1,2-Dichloroethylene	1.2	X	X	X	X	X
Dichloromethane	Ø.8	1.2	53.5	2.2	4.4	9.2
1,2-Dichloropropane	2.0	X	Х	Х	Х	Х
cis-1,3-Dichloropropene	1.2	X	Х	X	Χ.	х
trans-1,3-Dichloropropene	4.0	Х	Х	Х	Х	Х
Ethylbenzene	Ø.8	X	Х	Х	Х	х
1,1,2,2-Tetrachloroethane	Ø.4	Х	Х	Х	Х	Х
Tetrachloroethylene	0.4	X	Х	Х	х	X -
Toluene	Ø.4	· x	Х	Х	X	X
1,1,1-Trichloroethane	Ø.4	X	Х	Х	Х	· X
1,1,2-Trichloroethane	Ø.4	х	Х	Х	X	X
Trichloroethylene	Ø.4	Х	Х	Х	Х	X
Vinyl Chloride	2.0	Х	Х	Х	Х	x
Zimpro Analytical No.		15069	15070	15071	15072	15073

X = Analyzed but not detected

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Table 4 CH₂M Hill VOC Analysis (ug/1) November 19, 1985

	Detection Limit	Trip Blank
	Dimit	<u>ILLP DIAIK</u>
Benzene	Ø.2	х
Bromoform	Ø.5	X
Bromomethane	1.0	X
Carbon Tetrachloride	Ø.1	X
Chlorobenzene	Ø.1	X
Chloroethane	1.0	X
2-Chloroethylvinyl Ether	2.0	X
Chloroform	Ø.1	X
Chloromethane	6.0	x
Dibromochloromethane	Ø.1	X
1,2-Dichlorobenzene	Ø.3	X
1,3-Dichlorobenzene	Ø.3	X
1,4-Dichlorobenzene	Ø.3	X
Dichlorobromomethane	Ø.1	X
1,1-Dichloroethane	Ø.1	X
1,2-Dichloroethane	Ø.3	X
1,1-Dichloroethylene	Ø.5	Х
1,2-Dichloroethylene	Ø.3	X
Dichloromethane	Ø.2	3.0
1,2-Dichloropropane	Ø.5	X
cis-1,3-Dichloropropene	Ø.3	X
trans-1,3-Dichloropropene	1.0	X
Ethylbenzene	Ø.2	X
1,1,2,2-Tetrachloroethane	Ø.1	X
Tetrachloroethylene	Ø.1	X
Toluene	Ø.1	X
1,1,1-Trichloroethane	Ø.1	X
1,1,2-Trichloroethane	Ø.1	X
Trichloroethylene	Ø.1	X
Vinyl Chloride	Ø.5	Х

Zimpro Analytical No.

X = Analyzed but not detected

15074

Table 5
CH ₂ M Hill
VOC Analysis (ug/1)
November 25, 1985

Benzene Bromoform Bromomethane Carbon Tetrachloride Chlorobenzene Chloroethane 2-Chloroethylvinyl Ether Chloroform Chloromethane Dibromochloromethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene Dichlorobromomethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethylene 1,2-Dichloroethylene 1,2-Dichloroethylene 1,2-Dichloropropane cis-1,3-Dichloropropene trans-1,3-Dichloropropene	Detection Limit 0.2 0.5 1.0 0.1 0.1 1.0 2.0 0.1 6.0 0.1 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.5 0.3 0.5 0.3 1.0	Trip Blank X X X X X X X X X X X X X X X X X X X	Field Blank X X X X X X X X X X X X X X X X X X X	Well 1 X X X X X X X X X X X X X X X X X X X	Well 2 X X X X X X X X X X X X X X X X X X X	Well 3 X y7. X y7. X x 66. X X X X X X X X X X X X X
1,2-Dichloropropane cis-1,3-Dichloropropene trans-1,3-Dichloropropene Ethylbenzene 1,1,2,2-Tetrachloroethane Tetrachloroethylene Toluene 1,1,1-Trichloroethane 1,1,2-Trichloroethane	Ø.5 Ø.3	Х	Х	X	· X	X
Trichloroethylene Vinyl Chloride Zimpro Analytical No.	Ø.5	x 152 22	х	x 15215	x 15216	x 15217

X = Analyzed but not detected

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Table 6 CH₂M Hill VOC Analysis (ug/l) November 25, 1985

	Detection				
	Limit	Well 4D	Well 4S	<u>Well 6</u>	<u>Well 7</u>
					· ••
Benzene	Ø.2	X	X	X	X
Bromoform	0.5	X	X	X	X
Bromomethane	1.0	X	X	X	X
Carbon Tetrachloride	Ø.1	X	X	X	X
Chlorobenzene	Ø.1	X	X	X	X
Chloroethane	1.0	X	Х	X	X
2-Chloroethylvinyl Ether	2.0	X	Х	X	x
Chloroform	Ø.1	1.4	Х	X	Ø.8
Chloromethane	6.0	Х	Х	- X	X
Dibromochloromethane	Ø.1	Х	Х	× X	X
1,2-Dichlorobenzene	Ø.3	Х	Х	X	X
1,3-Dichlorobenzene	Ø.3	Х	X	Х	Х
1,4-Dichlorobenzene	Ø.3	Х	X	X	Х
Dichlorobromomethane	Ø.1	X	X	Х	X
1,1-Dichloroethane	0.1	Х	Х	Х	X
1,2-Dichloroethane	Ø.3	Х	Ø.4	X	Х
1,1-Dichloroethylene	Ø . 5	X	Х	Х	· X
1,2-Dichloroethylene	Ø.3	1.4	9.3	Х	Х
Dichloromethane	Ø.2	Ø.4	Ø.6	1.6	1.2
1,2-Dichloropropane	Ø.5	Х	X	Х	Х
cis-1,3-Dichloropropene	Ø.3	· X	Х	Х	Х
trans-1,3-Dichloropropene	1.0	Х	X	X	X
Ethylbenzene	Ø.2	Х	X	Х	X
1,1,2,2-Tetrachloroethane	Ø.1	Х	Х	Х	Х
Tetrachloroethylene	Ø.1	Ø.1	Ø.5	Ø.1	. X
Toluene	0.1	Х	X	х	x
1,1,1-Trichloroethane	Ø.1	Ø.3	X	Х	11.5
1,1,2-Trichloroethane	Ø.1	X	X	· X	х
Trichloroethylene	Ø.1	19.7	2.0	X	10.7
Vinyl Chloride	Ø.5	Х	2.2	X	X
Zimpro Analytical No.		15218	15219	15220	15221

X = Analyzed but not detected

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Table 7

CH2M Hill Soil²Borings

	SL-B2-24	SL-HSA-3	SL-HSA-4
Cyanide, ug/g	<0.11	<0.11	<0.09
Arsenic, ug/g	1.02	2.16	3.42
Barium, ug/g	24.2	26.3	24.7
Cadmium, ug/g	<0.081	<0.077	<0.082
Chromium, ug/g	2.87	2.15	1.58
Lead, ug/g	1.73	3.92	6.21
Mercury, ug/g	<0.008	<0.009	<0.010
Selenium, ug/g	<0.10	<0.10	<0.10
Silver, ug/g	0.144	<0.096	<0.102
Total Solids, %	96.18	92.71	84.65
Analytical No.	15069	15072	15073
Analycical inter	4		

Note: Results expressed on a dry weight basis except Total Solids

ug/g = mg/kg = ppm

< = "less than" detection limit varied with sample
 size</pre>

	۰.		We	1 Water Sa CH ₂ M Hill				. •	
·	Detection Limit	Field Blank	. <u>Well #1</u>	<u>Well #2</u>	<u>Well #3</u>	Well #4D	Well #45	<u>Well #6</u>	Well #7
Alkalinity, mg/1 as CaCO ₃	20.	x	56.	34.	268.	66.	433.	66.	39.
Hardness, mg/l as CaCO ₃	1.0	x	74.1	123.	491.	151.	755.	61.	88.
COD, mg/l	10.	x	12.	X	17.	х	56.	х	X
Diss. Fe, mg/l	0.004	x	0.077	Ø.ØØ4	x	Ø.212	0.012	Ø.263	0.005
Arsenic, mg/1	0.005	x	x	-	-	х	х	-	-
Barium, mg/l	Ø.Ø3Ø	0.044	x	-	-	х	0.200	-	-
Cadmium, mg/1	0.004	x	x	—	-	x	х	-	-
Chromium, mg/l	Ø.Ø17	x	x	-	-	x	x	-	-
Lead, mg/l	Ø.Ø5Ø	Ø.285	0.192		-	Ø.122	х	-	–
Mercury, mg/1	0.0004	x	x	- .	-	x	x	-	-
Selenium, mg/l	0.005	x	x	-	-	x	x	-	-
Silver, mg/l	0.005	x	x	-	-	x	x	-	-
Cyanide, mg/l	0.020	x	x	• _	-	x	x	-	-
Total Phenols, mg/l	0.050	X	x	-	-	X	x	-	-
Analytical No.		15223	15215	15216	15217	15218	15219	15220	15221

Table 8

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X = Analyzed but not detected

- = Not analyzed

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State of Wisconsin Department of Natural Resources

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GROUNDWATER MONITORING WELL INFORMATION FORM Chapter 144, Wis. Stats. 2-84 Form 4400-89 2-84

cility Name	. <u></u>				F	cility ID Number	Date	103/	1	Completed I	By (Name an	d Firm	ľc.	H2M 1	41						
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PROJECT NUMBER	
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BORING NUMBER

SOIL BORING LOG

	DIECT V) an sa	<u>u h</u>	andfil	1	DRILLING CONTRACTOR Twin Cities Tes	L'00	
	VATION			PMENT	Hollow sten	augers/CME-45	<u> </u>	······
	TER LEVEL			-	11/11/85	START 0900 11/11/85 FINISH 1015	11/11/85	LOGGER Johnson / MCBee
			BAMPLE		STANDARD PENETRATION	SOIL DESCRIPTION		COMMENTS
ELEVATION	DEPTH BELOW SURFACE	INTERVAL	TYPE AND NUMBER	RECOVERY	TEST RESULTS 6"-6"-6" (N)	NAME. GRADATION OR PLASTICITY. PARTICLE SIZE DISTRIBUTION. COLOR. MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY. SOIL STRUCTURE. MINERALOGY. USCS GROUP SYMBOL	LOG SYMBOLIC	DEPTH OF CASING. DRILLING RATE. DRILLING FLUID LOSS. TESTS AND INSTRUMENTATION
	4	0,0 1,5	5-1	18"	4-6-10 (16)	Topsoil, brown, sandy	-	Background DUH reading L. 2 fpm)
	-	2.0 3.5	5-Z	15"	11-16-17 (33)	Sand, fine to med. q rained, brown, moist, dense, tr csc 5d		-
	5 -					·		-
	0 _ - -	9.5 11.0	5-3	10''	7-10-10 (27)	Send, fine to coarse grained, brown, moist, medium density (SP) 8,790gr 88796 sd 2.690 fines		.2 OUA (background) _ - -
	- 15 - -	14,5 16,0	5-4	10"	8-13-16 (29)	As aboue		- .20UA (bacigrourd) _ -
	- 20 - -	19.5 21.0	5 <i>-5</i>	17"	7-11-15 (26)	Sand, fine to medium, brown, moist medium (SP) 98.370 fine to med od 1.790 fines		- background OUA
	25 -	23.5	5-6	J"	25/1"	Silty sand + gravel, fine sand, gray wet (gm) 25.590 gr 49.676 sod.		Rough drilling at \$235'. Possibly coarse gravel Water at 27.4' 10:00
	- - - -	29,5 31.0	5-7	1"	50/2"	Scenert page		After Univing 5-7 water level at 22.5 at 10:45 -

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BORING NUMBER .15

SOIL BORING LOG

PROJECT Wayson Landfill LOCATION									
ELE	ELEVATION DRILLING CONTRACTOR Twin Cities Testing								
	DRILLING METHOD AND EQUIPMENT Hollow stem augers / CME-45								
					STANDARD				
_			SAMPLE	_	PENETRATION				
ELEVATION	DEPTH Below Surface	INTERVAL	TYPE AND NUMBER	RECOVERY	RESULTS 6"-6"-6" (N)	NAME. GRADATION OR PLASTICITY. U DEPTH OF CASING. PARTICLE SIZE DISTRIBUTION, COLOR. J DRILLING RATE. MOISTURE CONTENT. RELATIVE DENSITY DRILLING FLUID LOSS. OR CONSISTENCY. SOIL STRUCTURE. JO MINERALOGY. USCS GROUP SYMBOL JO			
		29.5	5-7	11	50/2"	Silty sand, brown-groy, some gravel			
	-	31.0							
	35 -					Bottom of boring			
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PROJECT	NUMBER	
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BORING NUMBER

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SOIL BORING LOG

	PROJECT WILLE LEVE LILE LOCATION								
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DRILLING METHOD AND EQUIPMENT CME 45 KIG 34 I.D. 19 (7; 3.6.) STO. SPLIT STORIES								SPLIT SPECIALS	
WATER LEVEL AND DATE 27.7' 11/11/85 START 15:00 - 11/11/8 FINISH 11/11/85 LOGGER I.H. JOHNS									
ſ			SAMPLE		STANDARD			COMMENTS	
ELEVATION	DEPTH BELOW SURFACE	INTERVAL	TYPE AND NUMBER	RECOVERY	TEST. RESULTS 6"-6"-6" (N)	NAME. GRADATION OR PLASTICITY. PARTICLE SIZE DISTRIBUTION. COLOR. MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY. SOIL STRUCTURE. MINERALOGY, USCS GROUP SYMBOL	SYMBOLIC LOG	DEPTH OF CASING. DRILLING RATE. DRILLING FLUID LOSS. TESTS AND INSTRUMENTATION	
	0	1.5	· 5-1	10'	2-2-3 (5)	FILL, SAND, DK. BROWN, TR. ORGANES		OVA BACKSEDUND ~3.5 ppm	
	5 -	<u>4.0</u> 5.5	5-2	12"	4-7-8 (15)	SAND, LT. BROWIN, FINE, Masr, (SP)		OVA REPOINS BACKGESUNG	
	- 0]	7.0 12.5	5-3	8'	4-8-11 (19)	SAND, LT. BROWN, FINETO CSE, MOIST (SW) 31.9% gr 65-70 Sd 31% fines		DYA REHOING BRICKERSING	
	15-	14.0 15.5	5-4	<i>4</i> "	4-8-13 (21)	SMUD, LT. BEOUN, MED. TO CSE. MOIST, ~20% F Gravel (SP)		OVA READING BACKGASUAL	
	20-	19.0 20.5	5-5	7	7-9-10 (19)	SAND, KT. BROWN, MED. TO CSE, MOIST (SP)		OVA READING BACKGROUND	
	25-	24.0	1	1'	7-7-9 (16)	SAND D. BROWN, FINE TO MEU, MOIST		OVA READING BACKSFOUND -	
	30 -	29	111	6"	2-4-4			OVA REAVICE 274620000 KATER AT 27.8' at 15:52 WATER AT 27.7 at 16:00	

PROJECT NUMBER

BORING NUMBER

			\sim
SHEET	÷	OF	-

SOIL BORING LOG

PROJECT WAUSAULF - UNR

___ LOCATION

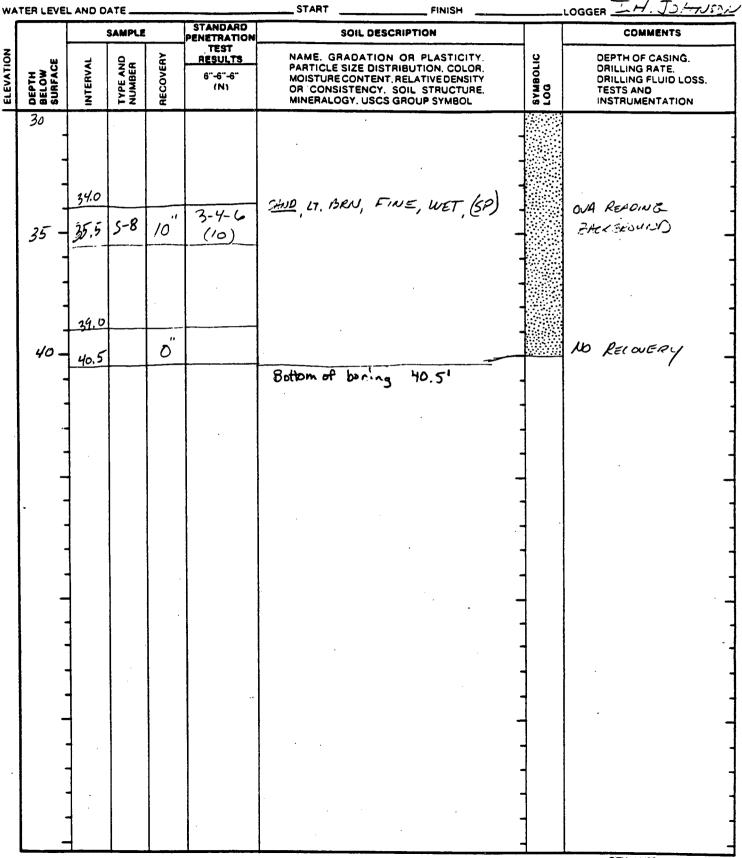
ELEVATION

DRILLING CONTRACTOR

TWIN CITE TESTING

2 TESTING

DRILLING METHOD AND EQUIPMENT_



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CH2M						PROJECT NUMBER L20303.40	BORING NUMBER	1 ^			
	HILL						1.0-23	SHEET / OF			
· ·						SOIL BORING LOG					
00/	PROJECT Wansan LF										
ELEVATION DRILLING CONTRACTOR LOCATION											
DRI			ND EQU	IPMENT	TW"OD		Lme-45	8			
WA	TER LEVE		ATE 29	5'1	1/12/85	START 14:30 - 11/12 FI	INISH 1600 11/12	2/55 LOGGER I.H. John			
ſ			SAMPLE					COMMENTS			
ELEVATION	DEPTH Below Burface	INTERVAL TYPE AND NUMBER		RECOVERY	TEST RESULTS 6"-6"-6"	NAME. GRADATION OR PLA PARTICLE SIZE DISTRIBUTION MOISTURE CONTENT, RELATIVE	N, COLOR.				
ELE	067 861	INTE	TYP	REC	(N)	OR CONSISTENCY, SOIL STI MINERALOGY, USCS GROUP S		S TESTS AND INSTRUMENTATION			
	0	0.0	51	15	3-3-4 (7)	<u>FILL</u> BLACK SAND SILT, SOME CINDERS	, GRAVEL, S. MOIST	OVA NOT WORKING PROPERLY - JATER LOCU			
	5 -	<u> </u>	5-2	8"	14-14-1 (30)	SAND, SOME CINDER	AND GRAY,				
	- - - 0/ -	9.5 11.3	5-3	10"	15-18-2. (40)	SAND LT. BROWN, fine T maist (SW) 32 NOTO gr 626 to so 570 fines	, , , , , , , , , , , , , , , , , , ,	Roy GH DR'LLIN'S			
	15-	14.5	5-4	14"	5-8-10 18		<u>~12</u> ' 	AT ~12' E.S.S. POSSIBLY COARSE GRAVEL OR COBBLES			
	20-	14.5	1.5	5	30-20/	95.99035d 2.0% fines 5ANO, CT. BROWN, ME	4 4 9) 70 CSE, 4	GRAVEL LOQGED 12' BOTTOM OF THE			
		<u>21.0</u>		5	/.	Moisi To Wer, (: انجزور 	SPLIT SPOON			
	25	24.5	,5-6	15	4-5-6 (11)	<u>SAND</u> LT. BROWN, FINE 7 MOIST (SP) 219°C med sd 78.2°7C fine sd 0.8°7C fines	р <i>мед</i> , - - -				
	30.	- <u>29.5</u> 31.0	5-7	8.	4-7-8	SANO, LT BROWN, FI	NE TO MED	WATER A 295 B.G.S. HT 15 116 h			

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CH	2M HILL

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	H2M					PROJECT NUMBER	BORING NUMBER		
	HILL					L20303 A0	. B-35		SHEET OF
	}					SOIL BORING LOG			
		Jerre	. 13	F _ 1	Wir. DN	R			
		V MM2	ML LI				IN CITY		
	VATION				21/17	DRILLING CONTRACTOR TWIN CITY D. 174" D. D. HSA'S, CME45 RIG,			
				PMENT				·	T II TALL KAN
WA'	TER LEVE	L AND D	ATE				NISH		LOGGER I. H. JOHNYON
			SAMPLE		STANDARD PENETRATIO				COMMENTS
ELEVATION	DEPTH BELOW SURFACE	INTERVAL	TYPE AND NUMBER	RECOVERY	TEST <u>RESULTS</u> 6"-6"-6" (N)	NAME, GRADATION OR PLA PARTICLE SIZE DISTRIBUTION MOISTURE CONTENT, RELATIVE OR CONSISTENCY, SOIL STR MINERALOGY, USCS GROUP SY	COLOR. DENSITY UCTURE.	SYMBOLIC LOG	DEPTH OF CASING. DRILLING RATE. DRILLING FLUID LOSS. TESTS AND INSTRUMENTATION
	30								
	-			•			-		-
	-	34.5				SAND LT BEOWN FINE	WET		-
	35 -	-	S-8			<u>Shire</u> , 1, 192000, 100			. –
	_	360				4	-		· •
	-						-		-
	-						-		
	-					B			COMPLETE DRILLING -
	40 _					BOTTOM OF BOREHOLE	4 40		AT 1600 HRS -
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Q	H2M				٩		NG NUMBER B-45	SHEET / OF
==	HILL .				-			
•						SOIL BC	ORING LO	G
PRC	DJECT	1 Jan	Med L	. F -	WONR	LOCATION	······································	<u> </u>
LE	VATION					DRILLING CONTRACTOR	<u>GIY</u>	
DRI	LLING ME		ND EQUI	IPMENT	CME 45	START 0900-11/13 FINISH	vj HSA r	LOGGER I. H. JOHINS
יאא ר				i-	STANDARD		<u></u>	·····
z			SAMPLE		PENETRATION TEST			COMMENTS
	ACE ACE	IVAL	AND	VERY	6"-6"-6"	NAME. GRADATION OR PLASTICI PARTICLE SIZE DISTRIBUTION, COLO MOISTURE CONTENT, RELATIVE DENS	DR. J	DEPTH OF CASING. DRILLING RATE.
ELEVATION	DEPTH BELOW SURFACE	INTERVAL	TYPE AND NUMBER	RECOVERY	(N)	OR CONSISTENCY, SOIL STRUCTU MINERALOGY, USCS GROUP SYMBOL	RE. ES	DRILLING FLUID LOSS. TESTS AND INSTRUMENTATION
╧╋	5	2.0			3-4-5	FILL SILTY SAND, GRAY, S		OVA BACKGROUND
	4	15	5-1	2"	(9)	CLAY MOIST		~ 3ppm
	-					1		
	-		_					S S
	_	- 11			5 60	FILL SAND WOOD CHA	es	
	5 -	4.5	5-2	5"	554	FILL, SAND, WOOD CHAR MOIST		9 9
	-							PIECES OF PAPER
	-					· · ·		+ PLASTIC IN
	-						-	AUGER CUTTINISS
	-	0-		ļ		FILL SAND DK GRAY MIS	c	8
	10 -		5-3	2"	(5)	FILL, SAND DK GRAY MISS SILT CLAY MOIST TO W	ver -	8
	-	<u> </u>					. - 100000000000000000000000000000000000	8
	-							8 · · ·
	-	1				~!		OVA READING - 50 AD
	-	INF			10-10-11	SAND, FINE, TO MED, LT BRO MOIST (SP) 9 2 Maar	way -	OFF FUSER ST. 13
	15-	160	5.4	10"	(21)	MCIST (SP)		POSSIBLY METHANE
	-	1					-	
	-	1.			1	8870 5d 1.870 fines	-	
	-	1						
	-	10 5	 		13-16.20	SAND, FINE TO CSE, LT. BROA	N.	OVA READING ~4
	20-	21.0	5-5	12"	(36)	MOIST (SW)	-	to 5 ppm (~1 to 2 ABOVE BALF CREDING
						30.1% gr 64.7% sd		
		1				5.2% fines		SPLIT SPOON SAMPLE
	-	1						
	-	24.5				SAND, FINE		
	25-	2/ ~	5.6	15"	8-8-13	— ,		WATER LEVEL AT 25' B.G.S.
	· ·	F		-		+		@ 10:50 HRS
	•	1						
		1					-	•
		245	ļ		18-12-2.	SAND, FINE. LT. BROWIN, WE	TT	
	1 27-	1	2.7	19	40	(SP)	[:::::	4

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a	H2M				P	ROJECT NUMBER	BORING NUMB	ER	~ · ·
	HILL				-	L20303. AO	. 3-45		SHEET OF
<u> </u>	J	•				SO	IL BORING	GLOG	
:								_	
PRO	OJECT	ina	.san	LF	- Wr	DNR			
ELE	EVATION			•,	<u> </u>		WIN CITY	/	
DRI	ILLING ME	THOD A	N D EQU	IPMENT.					
WA	TER LEVE	L AND D				START		LC	DGGER <u>J.H. Johnion</u>
			SAMPLE		STANDARD	SOIL DESCRIPTIO)N		COMMENTS
NO	· 8	٦٢	Q R	ERY	TEST RESULTS	NAME. GRADATION OR P PARTICLE SIZE DISTRIBUTI		2	DEPTH OF CASING
ELEVATION	DEPTH Below Surface	NTERVAL	TYPE AND NUMBER	RECOVERY	6"-6"-6" (N)	MOISTURE CONTENT, RELAT OR CONSISTENCY, SOIL S	IVEDENSITY	SVMBOLIC LOG	DRILLING RATE. ORILLING FLUID LOSS. TESTS AND
Ē	DE SC	Ĩ	NN I	RE		MINERALOGY, USCS GROUP		LQ.	INSTRUMENTATION
	30					SAND FINE, LT. BROWN	, WET, SP		
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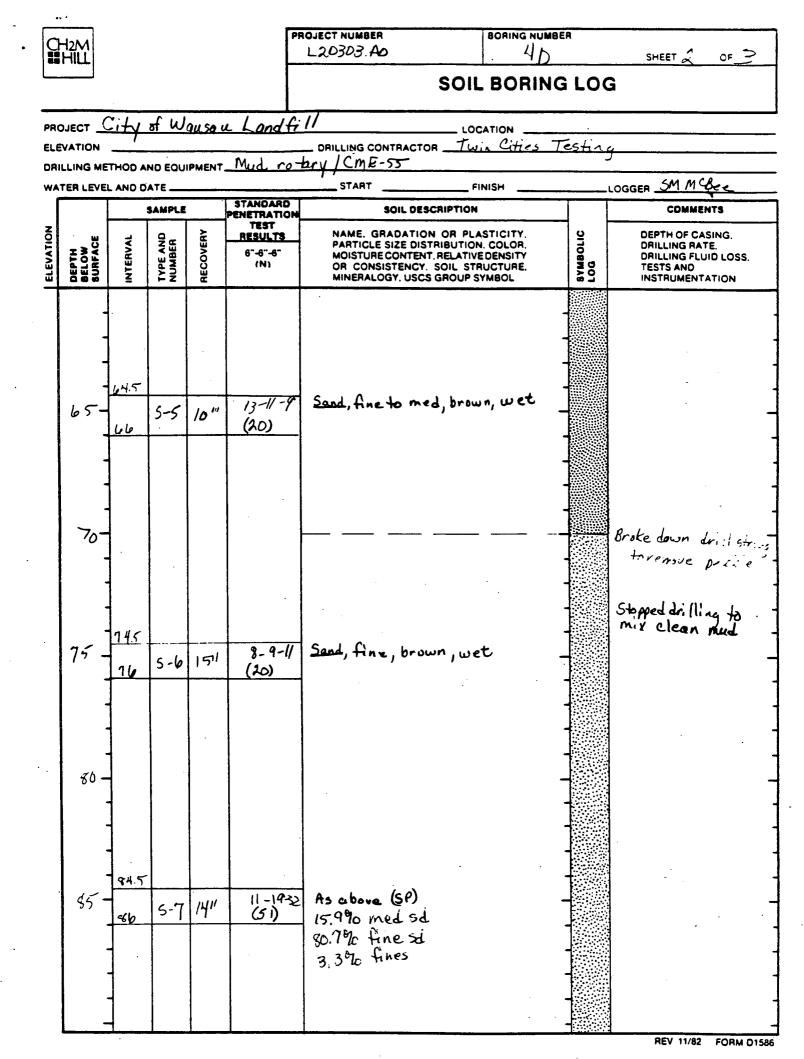
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					P	OJECT NUMBER	BORING NUM	ABER	
	HILL					L20303.AD	. HD		SHEET 1 OF 3
						SO	IL BORIN	IG LOG	à
		ity_	of W	04 500	<u>Londfi</u>	<u>//</u>		- ,,	<u></u>
				PMENT	Benbain	_ DRILLING CONTRACTOR _TU _ MUL ro-ary/CME	-55-	sting	
	TER LEVE					START 7	FINISH 1410	-11/14/83	OGGER SM MBER
ſ		:	BAMPLE		STANDARD PENETRATION	SOIL DESCRIPTION	ON		COMMENTS
ELEVATION	DEPTH BELOW SURFACE	NTERVAL	TYPE AND NUMBER	RECOVERY	TEST RESULTS 6"-6"-6" (N)	NAME, GRADATION OR F PARTICLE SIZE DISTRIBUT MOISTURE CONTENT, RELAT OR CONSISTENCY, SOIL MINERALOGY, USCS GROU	ION. COLOR. TIVE DENSITY STRUCTURE.	SYMBOLIC LOG	DEPTH OF CASING. DRILLING RATE. DRILLING FLUID LOSS. TESTS AND INSTRUMENTATION
Ħ						Seelog of 45 for			
1	-					<i>jeereg a ie</i> is.		-	
	-							-	
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	_	34			3-4-6	Soul Plan in the			
4	35-	36.5	5-1	7′	(10)	Sand, flom, moist, brow tr grave	n c	T	
	-	<u></u>							
	-							-	
	-							-	
		39.5			. 7 /2	Sand fire to medium	tr. gr	-	
	40'-	मा	5-2	9''	6-7.72 (19)	Send, fine to medium moist, brown (SP 8.000gr)))	-	
	-		·			8.0°logr			
	-					89.2% sd 2.8% fines			
	-	1			· ·				
	45-	44.5			.912#	as above			
		NG.	5-3	9."	(26)		÷ .		Stopped work to fix the place
	- 0;	1							
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		54,5						-	
	55 -	+ <u></u>		10''	9-9-20	Sand, fine to mod.gr moist, brown	aired,		
		56	5-4		(29)	moist, brown	,	-	
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	60				1				



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	H2M				PF	OJECT NUMBER	BORING NUMBER				
	HILL					L20303, AO	- AD		SHEET 3 OF		
						SOIL	BORING	LÒG			
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PRC		City	of u	وبيەد	sau har						
ELE	VATION					_ DRILLING CONTRACTOR	· Cities Testa	ing			
DRI	LLING ME										
WA		AND DA	ATE			START FINISH			LOGGER SM MCBCC		
ſ			AMPLE		STANDARD PENETRATION	SOIL DESCRIPTION			COMMENTS		
Z	ų		e _	Ϋ́	TEST RESULTS	NAME, GRADATION OR PLA		2	DEPTH OF CASING. DRILLING RATE.		
ELEVATION	DEPTH Below Surface	NTERVAL	TYPE AND NUMBER	RECOVERY	6"-6"-6" (N)	PARTICLE SIZE DISTRIBUTION MOISTURE CONTENT, RELATIVI	EDENSITY	SYMBOLIC LOG	DRILLING FLUID LOSS.		
EE		IN	N N	REC		OR CONSISTENCY, SOIL ST MINERALOGY, USCS GROUP S		LOI LOI	TESTS AND INSTRUMENTATION		
Τ						•					
	-						-				
	-						-				
	-						-		-		
	-	94.5							-		
	95-		5-8	15"	13-16-23	Sand, fine, moist, brown	n _		-		
	-	96	3-0		(39)		-		·		
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	-	104.5		•			•		-		
	105-			1011		Asabove	_				
		106.4	5-9	10″	102/6.4"		-		-		
						Bottom of boring 1	106.4'		-		
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11/82

CH2M	

PROJECT NUMBER	BORING NUMBER		
L20303.40	B-6D	SHEET	OF
C			
S	SOIL BORING LO	DG	

		itu o	$f(\lambda)$	<u></u>	Landfill	LOCATION	- <u> </u>	
		<u></u>	<u> </u>			_ DRILLING CONTRACTOR TWIN CITIS TOT	ra	
					Bentonite	mud rotary (CME-55/75, 37	8" tric	one
WA	TER LEVEL		ATE			START 11/185FINISH		LOGGER SMCBee
ſ		S	AMPLE		STANDARD PENETRATION	SOIL DESCRIPTION		COMMENTS
ELEVATION	DEPTH BELOW SURFACE	INTERVAL	TYPE AND NUMBER	RECOVERY	TEST <u>RESULTS</u> 6 ^{°°} -6 ^{°°} (N)	NAME. GRADATION OR PLASTICITY, PARTICLE SIZE DISTRIBUTION. COLOR, MOISTURE CONTENT. RELATIVE DENSITY. OR CONSISTENCY. SOIL STRUCTURE. MINERALOGY, USCS GROUP SYMBOL	SYMBOLIC LOG	DEPTH OF CASING. DRILLING RATE. DRILLING FLUID LOSS. TESTS AND INSTRUMENTATION
	-					Sand little if any gravel		Description from drillers comments
	-							Refer to log of B-65
	-					-	-	Wyogel bentonite
	10 -						-	-
	-							
	- -							
	20 -							_
	-					· · ·		
		-						
	- 30 -						_	_
•							-	-
		4					-	
	40 -					Cobbley sand and grovel		"boalder"
		┨ .				-		44' last ≈ 50%
							000	$44'$ last $\approx 50\%$ of drilling fluid
	~	-				Granite boulder or top of rock		1/11/85 11/12/85
	50	-				Bottom of boring 49.5	4	i
		4	This	bori	y was de	nilled 25 from original location aple at 55!		r tricone bit
		4			DIT.IN		4	· · · · ·
	L	<u> </u>		<u> </u>	<u> </u>	<u> </u>	-1	BEV 11/82 FORM D1586

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PROJECT	NUMBER	1
120	EGE	AD

BORING NUMBER

SHEET OF -

SOIL BORING LOG

		11/1		15	WIS.	DAID		
	VATION	IN au				DRILLING CONTRACTOR TWIN City To	estin	•
DRI				IPMENT	314" I.	D. HSA (74" 0.0.), CME45 R	PIG.	STO SPLIT SPONS
WA	TER LEVE		ATE 24	1.5'	11/12	START 0930 - 11/12 FINISH		LOGGER J.H. Johnson
ſ			SAMPLE		STANDARD PENETRATION	SOIL DESCRIPTION		COMMENTS
ELEVATION	DEPTM BELOW SURFACE [.]	INTERVAL	TYPE AND NUMBER	RECOVERY	TEST <u>RESULTS</u> 6"-6"-6" (N)	NAME. GRADATION OR PLASTICITY. PARTICLE SIZE DISTRIBUTION. COLOR. MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE. MINERALOGY, USCS GROUP SYMBOL	SVMBOLIC SVMBOLIC	DEPTH OF CASING. DRILLING RATE. DRILLING FLUID LOSS. TESTS AND - INSTRUMENTATION
	0	0.0 1.5	5-1	12"	/-3-5 (8)	FILL, DK GRAY TO BROWN, DROTANK SILTY SAND		OVA BALVIERINII ~ 5 PPM
	5-	<i>4.5</i> 60	5-2	10"	15-30-15/2	SAND, fine TO CSE, CT. BROWN, ~10% FINE GRAVEL, MOIST, (SP) ~7.54		OVA READING -5.5 MAI - IN HSA -
	- 0/ -	9.5 11.2	5-3	12"	9-16-18 (34)	SAND, MED. TO CSE, (T. BROWN, - -1093 FINE GRAVEL, (SP) -		OVA PEADING BACKARDUND
	15 -	14.5	5.4	9"	18-22-14 (36)	SAND, MED. TO CSE, LT. BROWN, -30%, FINE TO MED. SPRIVEL, MOIST TO WET (AT 1,5-0M) (SP)		OVA REAPING BACKGROUNL
	- 05 - 05	<u>4.5</u> 21.0	5-5	10"	5-11-16 (27)	SANO MED Fine , IT. BARNON, MOIST (SD) 9.6%gr 87.8% To So 2.6 To fines		OVA READING BACK GROUND
	25=	24.5		Ë	12-13-13 (26)	(MOD, MED. TO CSE. LT BROWN. MOIST (SP) ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		OVA READING UN TO BPPM IN LIVE -I to 3 p. M. Nort background
	30-	- 29.5	5.7	8	7-10-11-	SAND MED. TO FINE LT. BROWN, WET		OW 23712/1- BALKENING

REV 11/82 FORM D1586

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					L L		BORING NUMB	ER	
	H2M					620303,40	.5-75		SHEET OF -
								G LO	G
		Way	604	1000	<u> </u>				
	EVATION					DRILLING CONTRACTOR	- LOCATION	./ 7	TESTING
OR	ILLING ME			IPMENT					· · · · · · · · · · · · · · · · · · ·
WA	TER LEVE	L AND D	ATE			START 0930 - 11/1	2 FINISH	·	LOGGER
			SAMPLE	ł	STANDARD PENETRATIO	SOIL DESCRI	PTION		COMMENTS
ELEVATION	DEPTH BELOW SURFACE	INTERVAL	TYPE AND NUMBER	RECOVERY	TEST RESULTS 6"-6"-6" (N)	NAME. GRADATION C PARTICLE SIZE DISTRIE MOISTURE CONTENT, RE OR CONSISTENCY, SC MINERALOGY, USCS GR	BUTION, COLOR, ELATIVE DENSITY DIL STRUCTURE,	SYMBOLIC	DEPTH OF CASING. DRILLING RATE. DRILLING FLUID LOSS. TESTS AND INSTRUMENTATION
	30								WATER LEVEL AT
	-							-	29.5 at 10.53
	- 35 -	-45	·. ,		4-7-8	SAND, FINE TO MED WET (SP)	T. Blown,	-	OVA READ, MG
	- 20	36.0	5-8	8	(15)	WET (SP)			BACKGROUPID (5.51m
	-							-	Deille of of single
	-					7		-	Spring REPARS
	40 -			<u> </u>		Patter IT Inic	1-9.5 K 40.5		IN HIME - IT
	-							-	WEIL TO US IS
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REV 11/82 FORM D1586 CH2M

PROJECT NUMBER L 20303, AD

SHEET / OF 2

SOIL BORING LOG

15

BORING NUMBER

PROJECT Wansace Landfill LOCATION ORILLING CONTRACTOR Twin Cities Testing ELEVATION ORILLING METHOD AND EQUIPMENT Hollow stem Quars /CME-45 WATER LEVEL AND DATE 22.5 11/11/85 START 0900 11/11/85 11/11/85 LOGGER Johnson / MCBee FINISH 1015 STANDARD SAMPLE SOIL DESCRIPTION COMMENTS PENETRATION TEST ELEVATION TYPE AND NUMBER NAME. GRADATION OR PLASTICITY. SYMBOLIC LOG RECOVERY RESULTS DEPTH OF CASING. DEPTH BELOW SURFACE NTERVAL PARTICLE SIZE DISTRIBUTION, COLOR, MOISTURE CONTENT, RELATIVE DENSITY ORILLING RATE. 6"-6"-6" ORILLING FLUID LOSS. (N) OR CONSISTENCY. SOIL STRUCTURE. TESTS AND MINERALOGY, USCS GROUP SYMBOL INSTRUMENTATION 0.0 4-6-10 Topsoil, brown, sandy 18" Background OVA resource 5-1 (16) 1.5 C.Zppm) 2.0 Send, fine to med. graved, brown, moist, dense, tr ese 5d 11-16-17 15" 5-Z (33) 3.5 5 9.5 Sand, fineto coarse grained, brown, 10 7-10-10 . 2 OUA (background) 10' moist, medium density (GP) 5-3 (27) 0, 11 8,770 sd 88.790 sd 2.690 fines 145 15 8-13-16 As above ,200A (backaround) 10" 5-4 (29) 160 19.5 Sand, fine to medium, brown, moist medium (SP) 98.370 fine to med sd 7-11-15 20 17" background OUA 5-**5** 21.0 (26) 1.790 fines Rough drilling at \$235' 23.5 Sitty send + gravel, fine send, gray, 1" 25/1" wie (gm) 5-6 25.0 25 25.590 Ar 49.67 50 24 9 10 fines Water at 27.4' 10:00 After driving 5-7 water level at 22.5 bt 10:45 29.5 Seenert page '' ۱ 50/2" 30 5-7 31.0

Í	CH2M	ĺ
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L						SOIL BORING LOG								
		Jano	u L	andfi	11	LOCATION DRILLING CONTRACTOR IWIN Cities Tection								
				JIPMENT	Hollow st	w stem sugers / CME-45								
W	TER LEVE	LAND	SAMPL		STANDARD PENETRATION	SOIL DESCRIPTION								
ELEVATION	DEPTH Below Surface	INTERVAL	TYPE AND NUMBER	RECOVERY	TEST RESULTS 6"-5"-5" (N)	NAME. GRADATION OR PLASTICITY. U DEPTH OF CASING. PARTICLE SIZE DISTRIBUTION. COLOR. DRILLING RATE. MOISTURE CONTENT. RELATIVE DENSITY DRILLING FLUID LOSS. OR CONSISTENCY. SOIL STRUCTURE. U MINERALOGY. USCS GROUP SYMBOL U								
	-	24.5 31.0	5-7	l''	50/2"	Silty sand, brown-gray, some gravel								
	35 -					Battom of boring								

SHEET 2 OF 2

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ELEVATION

PROJECT NUMBER

BORING NUMBER .15

g	H2M					ROJECT NUMBER BORING NUM		
						SOIL BORIN		
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		W_{i}	. <i>AU</i>	LF .	- lans D		<i>r</i> +	
	VATION	 ETHOD A	NO EQU		CME 44			SPLIT FORS
/A `	TER LEVE	EL AND D	ATE 2	7.7	11/11/85		11/11/85	LOGGER J.H. Johnso
ſ			SAMPLE	!	STANDARD PENETRATION	SOIL DESCRIPTION		COMMENTS
	DEPTH BELOW SURFACE	INTERVAL	TYPE AND NUMBER	RECOVERY	TEST 	NAME, GRADATION OR PLASTICITY PARTICLE SIZE DISTRIBUTION, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY, USCS GROUP SYMBOL	SVMBOLIC LOG	DEPTH OF CASING. DRILLING RATE. ORILLING FLUID LOSS. TESTS AND INSTRUMENTATION
	0	1.5	· 5-1	10'	2-2-3 (5)	FILL, SATNO, DK. BROWN, TR. ORGANICS		OVA BACKGESUND ~ 3.5 ppm
	-	1					- 1000000	
	•	4.0					-	
	5 -	5.5	5.2	12"	4-7-8	SAND, LT. BROWINI, FINE, MOIST, (SP)	1	OVA REPOINT SAC COPSI
		6.5	-	101	(2)	(SP) .	-	
							1	
		7.0				CAND IT DA work BUIGT ACE		OVA REHOING BRICKER
	10-	سو.د/	5-3	8"	4-8-11	SAND, LT. BROWN, FINETE CSE,		UTH ROWING DECORTA
	10-			0	(19)	MOIST (SW) 31.9969r		
	-					5 10 5r		<i>.</i>
	•					31% fines		
	•	14.0				AND TO SE		OVA READING BACKGAW
			5-4	4"	4-8-13	SAND, LT BROWN, MED. TO CSE MOIST, ~20% F Gradel (SP)		
	15-	15.5			(21)	Marsi, 20 ja r grade (ar)	-	
	-							
	-							
	-	19.0				• (
I	-		بے ۔ ک	7	7-9-10	SAND, ET BROWN, MED. TO LSE,	-	OVA READING BACKGROU
	20-	20 5	· · · ·	1	(/9)	MOIST (SP)	-	
	-							
	-							
	-	240				_	1	
	25-		6.1	7	1-7-9	SAND D. BROWN, FINE TO HEN, MOIST		OVA READING BALLERON
I	~/-	25.5			(16)		-	
	-	1						
	-	1						وحرمة مشونة المراجع
	-	29						OVA NEADING STORESAUN LATER AT 27.8 at 15:52
	- ה'ר		5-7	6"	2-4-4	-	-	WATER AT 27.7 at 16:00
1	70 -	304	11	6	(9)		-	

H2M HILL						BORING NUN		$\overline{}$
				ŀ		<u>. B-2</u>		SHEET 2 OF
					S	OIL BORIN	IG LO	G
	WAL	SAU	LF -	- UNR				
VATION					DRILLING CONTRACTOR _	TWIN CIT	T' TE	ST NG
LLING MI TER LEVE				ſ				
		SAMPLE		STANDARD			<u> </u>	LOGGER ZH. J.
544		_	2	PENETRATION TEST RESULTS	NAME. GRADATION O			DEPTH OF CASING.
DEPTH DELOW SURFACE	INTERVAL	TYPE AND NUMBER	RECOVERY	6" -6"-6" (N)	PARTICLE SIZE DISTRIB MOISTURE CONTENT, RE OR CONSISTENCY, SOI MINERALOGY, USCS GRI	UTION. COLOR. LATIVEDENSITY L. STRUCTURE	SVMBOLIC LOG	DRILLING RATE. DRILLING FLUID LOS TESTS ANO INSTRUMENTATION
30						·		
•							-	
	34.0				SHID , LT. BRAS, FINS	- urt leal	-	
35 -	25 5	5-8	10"		,	-, wei (SP)		OVA REPOINT
<i>50</i>				(10)			-	ENCE INCOMEND
7						•		
1							-	
1	34.0							
			~"				-	
40 _	40.5		0					NO RELOVERY
4		1			Bottom of baring	40.51	4	
4							4	
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H2M					PROJECT NUMBER	BORING NUMB	ER	, ,					
IHILL ?				ŀ		. 6-35		SHEET / OF					
					SO	IL BORING	à LO	G					
	War	an L	F	ł									
				744"00	- DRILL -G CONTRACTOR - T Hollow stem angers	CME-45	ting						
TER LEVE	L ANO 0	ATE 29	.5'	11/12/85	TART 14:30 - 11/12		1/12/85	LOGGER J.H.Jd.					
		SAMPLE		STANDARD				COMMENTS					
DEPTH BELOW BURFACE	INTERVAL	TYPE AND NUMBER	RECOVERY	RECOVERY	RECOVERY	RECOVERY	RECOVERY	RECOVERY	TEST <u>RESULTS</u> S"-6"-6" (N)	NAME, GRADATION OR P PARTICLE SIZE DISTRIBUT MOISTURE CONTENT, RELAT OR CONSISTENCY, SOIL MINERALOGY, USCS GROU	ION. COLOR. TIVE DENSITY STRUCTURE.	RVMBOLIC LOG	DEPTH OF CASING. DRILLING RATE. DRILLING FLUID LOSS. TESTS AND INSTRUMENTATION
0	0.0 1.5	\$1	15	3.3-4 (7)	FILL BLACK, SAN			OVA NOT WORK 113 PROPERLY - 14-54					
4					SILT, JOME CINOEN	<pre>2, /00/37</pre>		2000					
4													
5	<u> 4.5</u>		8"		FILL, MOTTLED, BROM	N AND GRAY							
	6.0	5-2	8	(30)	SAND, SOME CINDE	, .		-					
4						~7							
· •			1										
	<u>.</u>			15-13-22	SAND LT. BROWN, Fine	TO CSE.,							
/0 -	11.2	5-3	10"	(40)	meist (SW) 32 NOTO gr 626 % 50	· •							
					590 fines	<u>~12</u> '		Rouge DRILLING					
4						-		AT NIZ' E.S POSSIBLY COARSE					
ا۔ ا	1.15			C.D. in	SAND, LT. BEOWN, FIN	E, Moist -		GRAVEL OR COBRIES					
15-	16.0	5-4	/4 "	5-8-10 18	Some learse and (SP)	-							
]					2.170 gr 95.990 sd	-							
]					2.0% fines	-							
4					CANO 1- 20mil M	B. TO CIE		GANVEL LOOGED 11!					
20-	19.5	5-5	5"	30-20/2	SANO, LT. BROWN, MI MOIST TO WET, (S	(P) -		BOTTOM OF THE SPLIT SPOON					
ł	21.0					-							
]													
]													
25	24.5	5-1		4-5-6 (11)	SAND LT. BROWN, FINE	TO M.60,							
┝	26.0		15	(//)	MOIST (SP) 2190 med set	-							
+		•			78.2% finesd	-							
-					0.8% fines	-		WATER ~ 295 B.G.					
_ 1	29.5	17	0	4-7-8	SANO, LT. BROWN, F WET SP	INE TO MED _		47 15:412 -					

H2M HILL	-				L20303 A0	BORING NU		SHEET OF
				Γ	S	OIL BORIN	IG LO	· · ·
	Internet and		F _	WIL ONR			<u>-</u>	
	N					LOCATION	-4	
	METHOD		IPMENT	<u>_314]. D.</u>	174" 0.0.) HSA'S,			T 11 Tath In
		SAMPLE	 	STANDARD	START			LOGGER I. H JOHNSON
DEPTH DELOW	NTERVAL	TYPE AND NUMBER	RECOVERY	TEST RESULTS 6"-6"-6"	NAME, GRADATION OF PARTICLE SIZE DISTRIBI MOISTURE CONTENT, REL	TION. COLOR.	OLIC	DEPTH OF CASING. DRILLING RATE. DRILLING FLUID LOSS.
_	INTE	TYPI	RĘC	(N)	OR CONSISTENCY. SOI MINERALOGY. USCS GRO	STRUCTURE	avia Log	TESTS AND
30								
	4						-	
	4						-	
25	34.5				SAND, LT. BEDWN,	FINE, WET		
35	360	8-ک			,	÷	-	
]						-	
	4							COMPLETE DRILLING
40	┥				BOTTOM OF BOREH	OLE 7 40'		AT 160 MRS
	4							
	4						-	
	4						4	
	1						4	
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					P	ROJECT NUMBER 80	ORING NUMBER	1	
	H2M	•				120303, Ao	B-45		SHEET / DF -
							BORING		
									-
AÇ		1	med		WONR	LOCATI	ION		
	VATION			<u> </u>		- DRILLING CONTRACTOR TWIN			
	LLING MI TER LEVE				<u>CME 45</u>				TH TAPP
יאי ר		7			STANDARO		н		LOGGER I.H. JOHNS
					PENETRATION				COMMENTS
	N N N	AVAL	AND	VER	6"-5"-6"	NAME. GRADATION OR PLASTI PARTICLE SIZE DISTRIBUTION. CO MOISTURE CONTENT, RELATIVE DE	OLOR.	OLIC	DEPTH OF CASING. DRILLING RATE.
	DEPTI	NTERVA	TYPE AND NUMBER	RECOVERY	(N)	OR CONSISTENCY. SOIL STRUC MINERALOGY, USCS GROUP SYME	TURE.	SYMBOLIC LOG	DRILLING FLUID LOSS. TESTS AND INSTRUMENTATION
t	5	2.0	5-1	<u> </u>	3-4-5	FILL SILTY SAND, GRAN			OVA BACKGROUND
	-	15	5-1	2"	(9)	CLAY MOIST			~ 3ppm
	-	1							
	-	4					4		
	-					EILL SAND LIND CH	400		
	5 -	4.5	5-2	5"	559	FILL, SAND, WOOD CH MOIST	··,		
	-	6.0			<u>('7)</u>	/ 015/ .	-		Arne - Marco
	-					· ·	4		PIECES OF PAPER + PLASTIC IN
	-						· -		ANGER CUTTINES
	-								
	10 -	95	5-2		1-2-3	FILL, SAND, TOK GRAY MI	15C.		
		110	י - <u> </u>		(5)	FILL, SAND DK GRAY MI SILT CLAY MOIST TO	wer -		
I	_								
	-								
	-						14		OVA RENDING - 50 ADA
Í	1	145		.,	10-10-11 (21)	SAND FINE TO MED, LT BI	ROWA, T		Cour ON BACKFLUST
	13 -	160	5.4	10	(21)	MOIST (SP)			POSSIBLY METHANE
	-					9,2 % gr 88% 5d	4		
	-					2,8% fines			
	-								
	-				13-16-20	SAND, FINE TO CSE, LT. BE	cond, +		OVA READING -4
	20-	77.3	5-5	12"	(36)	MOIST (SW)	,		to 5 ppm (~1 to 2
	-	21.0				30.1% or			ABOVE BALLEGROUND) IN HEA & FROM
	-					64.7% sd 5.2% fines	4		IN HIA & MANDLE SAIT SPOON SAMPLE
	-					<u></u>	— — 4		
	-	24.5					4		
	25-		5.6	15"	8-8-13	SAND, FINE	_		WATER LEVEL
		21.2	م ا در		(21)				AT 25' B.G.S.
1	-						4		(à 10:50 MRS
	-								
	-	20 5							
	20	29.5	:.7		13-12-2-	SAND, FALE, LT. BROGIN, W	ושני		
L	20-	37.5	. /	19	40	<u>(SP)</u>			

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7-	12M				۴ ا	ROJECT NUMBER	BORING NUME		~
Ï	ΗĨĹĹ				┣-	L20303. AO	. 74.		SHEET - OF
	J					· SC		G LOG	
		1.1.		1 F	<u> </u>				
	OJECT <u>Jansan LF - Wr</u>					DALK			
					·			L	<u>, , , , , , , , , , , , , , , , , , , </u>
						START		LO	GGER _ J.H. John:
٢			SAMPLE	!	STANDARD				COMMENTS
	DEPTH BELOW SURFACE	INTERVAL	TYPE AND NUMBER	RECOVERY	TEST RESULTS 6"-6"-6" (N)	NAME. GRADATION OR PARTICLE SIZE DISTRIBU MOISTURE CONTENT, REL OR CONSISTENCY, SOIL MINERALOGY, USCS GROU	TION. COLOR. TIVEDENSITY STRUCTURE.	SVMBOLIC LOG	DEPTH OF CASING. DRILLING RATE. DRILLING FLUID LOS TESTS AND INSTRUMENTATION
	30					SAND FINE LE BRUE	WET, SP		
	-	4				•			
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	-								
	35 -					Bom M DE LOVE-	1 7 35		
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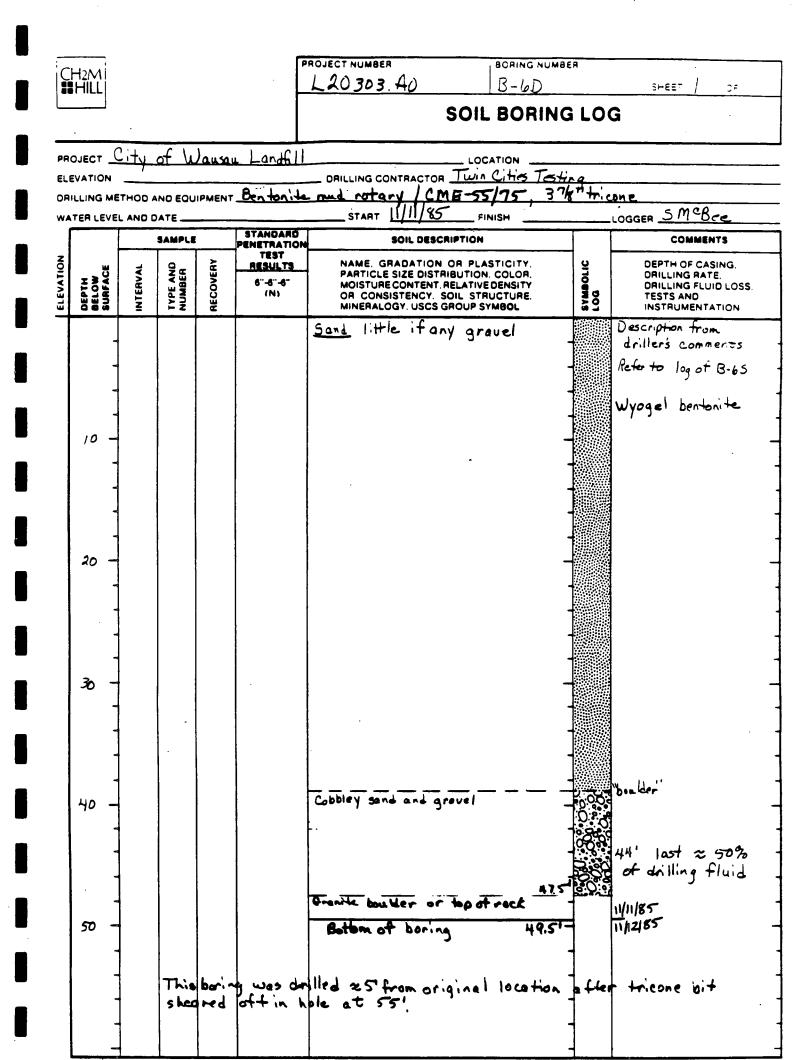
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Q	H2M HILL				ſ	L20303, AD	MBER	SHEET I DF
	·····					SOIL BORIN		
20		· ty	of 4	10000	u Land to			
ELE	EVATION					DRILLING CONTRACTOR Concentration	esting	
				IPMENT	Benon	<u>с мит ()-ису / СМЕ-55</u> START ? <u>-)</u> FINISH 14/0	_11/14/200	- 6.04 0460
م. ا			SAMPLE		STANDARD		<u></u>	COMMENTS
ELEVATION	DEPTM BELOW SURFACE	INTERVAL	TYPE AND NUMBER	RECOVERY	PENETRATION TEST RESULTS 6"-6"-6" (N)	NAME. GRADATION OR PLASTICITY. PARTICLE SIZE DISTRIBUTION, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY, USCS GROUP SYMBOL	8VMBOLIC LOG	DEPTH OF CASING. DRILLING RATE. DRILLING FLUID LOSS TESTS AND INSTRUMENTATION
╋						Seelog of 4s for 0-35"		INSTROMENTATION
						, , , , , , , , , , , , , , , , , , ,		
	-							
	-	34	:				-	
	35-	24	5-	7″	3-4-6	Sand, flom, moist, brown to grave	-	
	•	36.5					-	-
	4					-	-	
	40-	39.5		<u> </u>	6-7-12	Sand, fine to medium tr.gr,		
	-	цı	5-2	9''	6-7-12 (19)	Sand, fine to medium tr gr, moist, brown (SP) 8. Chagr	-	
	-					89.2% sd		
	-					2.8% fines		
		445		_	.9-12-14	a. la.		
	45-	HG	5-3	9"	(26)	as above		Stopped work to
ļ	4							fix Hw place
	4		·.			•		
	4							
	<u>;</u> 0 -						-	
	4					· · ·	-	·
	1							
]							
	5:	54,5		10''	9-9-20	Sand, fine to mod. grained, moist, brown		
	4	56	5-4	0	(29)	moist, brown '	-	
	4						-	
	-							
	ا						-	
Ľ	60 _						-	

H2M HILL	•			P	ROJECT NUMBER	BORING NUMB	ER	
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•					501	L BORING	g LO	G
DJECT City of Wallson Landt								
NATION				M. J. and	DRILLING CONTRACTOR	un Cities 7	estin	y
TER LEVE				- Ma. ro	STARTF			LOGGER SM MCBer
		SAMPLE	1	STANDARD				COMMENTS
DEPTH DELOW SURFACE	INTERVAL	TYPE AND NUMBER	RECOVERY	TEST <u>RESULTS</u> 6"-6"-6" (N)	NAME, GRADATION OR PL, PARTICLE SIZE DISTRIBUTIO MOISTURE CONTENT, RELATIV OR CONSISTENCY, SOIL ST MINERALOGY, USCS GROUPS	N. COLOR. EDENSITY RUCTURE.	SVMBOLIC LOG	DEPTH OF CASING. DRILLING RATE. DRILLING FLUID LOSS. TESTS AND INSTRUMENTATION
]								
-	64.5							
65-		5-5	10 "	13-11-9	Sand, fine to med, brow	in, wet		
+	مايا			(20)	•		-	
ہ					•			
							-	
70-								Broke down drit sto torense price
4]	nove prise
4								Stopped de 11:
	145							Stopped drilling to mix clean mud
75 -	16	5-6	151	8-9-11 (20)	Sand, fine, brown, we	t -		
Ī								
						•		
4								
50-						-		
4						-		
4						-		
]						-		
\$5-	94.5			11-19-32	As above (SP)	-		
	« b	5-7	/ 4 /′	11-19-32 (51)	15,990 med sd	-		
4					\$0.7% fine sol 3.3% fines	-		
4					5, J W 1111	-		
+					·			

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-12M				٩	ROJECT NUMBER	BORING		
HILL					L20303.A0		1D	SHEET 3 OF
·					S	OIL BOR	ING LOG	
DJECT _	City	of 1	يەد	saic ha				
				Mlat	DRILLING CONTRACTOR	Twin Cities	Testing	····
TER LEVE						FINISH	L0	GGER SM M Bee
		SAMPLE		STANDARD PENETRATION	SOIL DESCRI	PTION		COMMENTS
DEPTH BELOW BURFACE	INTERVAL	TYPE AND NUMBER	RECOVERY	TEST RESULTS 6"-6"-6" (N)	NAME, GRADATION O PARTICLE SIZE DISTRIE MOISTURE CONTENT, RE OR CONSISTENCY, SO MINERALOGY, USCS GR	LATIVE DENSITY	DILOG BVAR	DEPTH OF CASING. DRILLING RATE. DRILLING FLUID LOS. TESTS AND INSTRUMENTATION
-			-					
-		-				·		
-								
95-	94.5		ااس	-3-16-23	Sant, fine, moist, b.	6 eu o		
יר	96	5-8	15"	(39)	,,			
-								
-								
-							-	
100-								
-								
-								
105-	104.5			34-52-54/4	Asabove			
	106.4	5-9	10"	102/6.41			-	
4					Bottom of borin	9 106.4'		
4							4	
4							4	
110 -							4	
]							1	
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-					· ·			
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4							4	
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	1				5	PROJECT NUMBER BORING NUM		
	HILL					<u>L20303 AD</u> 3-7		SHEET / OF -
						SOIL BORIN		
		11/2		15	- WIS.	DAID		
	ATION					DRILLING CONTRACTOR TW. ~ City	Testin	•
						. U. HSA (74" 0.0.), CME 45	RIG,	STO SPLIT SPOONS
	ER LEVE				II//2	START 0930 - 11/12 FINISH		LOGGER J.H. Johnson
			SAMPLI		PENETRATION			COMMENTS
ELEVATION	DEPTH BELOW SURFACE	INTERVAL	TYPE AND NUMBER	RECOVERY	AESULTS 6"-6"-6" (N)	NAME. GRADATION OR PLASTICITY. PARTICLE SIZE DISTRIBUTION. COLOR. MOISTURE CONTENT. RELATIVE DENSITY OR CONSISTENCY. SOIL STRUCTURE. MINERALOGY. USCS GROUP SYMBOL	SYMBOLIC LOG	DEPTH OF CASING. ORILLING RATE. ORILLING FLUID LOSS. TESTS AND - INSTRUMENTATION
Ţ	0	0.0	5-1	12	/-3-5 (8)	FILL, DK. GRAY TO BROWN, ORCHWIK SILTY SAND		OVA BACK EXCINIS
	-			<u> </u>			-	
	-							
	-	4.5-			ļ	sa fin - and in a	-	OVA READING -5.5 MM
	5-	1	5-2	10"	15-30-15/.	SAND, fine TO CSE, CT. BROWN, ~10% FINE GRAVEL, MOIST, (SP)	,–	IN HSA
	4	<u></u>		F		(35)		
	4					~~		
1	-							
		7.5				SAND, MED. TO CSE, IT. BROWN,		OVA READING BACKWALL
	10 -		5-3	12"	(34)	-10% FINE GRAVER (S.D)	-	
	-	11.2						a star in the second
	4				ļ			1
	-							1-
		14.5			10-22-14	SAND, MED. TO CSE, LT. BROWN,		OVA READING
	/5 -	16.0	5.4	9	(36)	-30% FING TO CSE, LT. ENOWN,	-	BACKGEOUNL
]					MOIST TO WET (AT 1,5-DM)		
]		•			(57)		
		A.5				SAND MED Fine , IT. Ex. will		OVA READING
	20-				5-11-16	SAND ALD. (12)		BACK SECTION
		21.0	5-5	10"	(27)	9.660gr		•
ļ						87.8 % SS		
						2.6 70 fines		
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		30 GAL	
			CEMENT (22" en)
		1 24	COMENT (22 ed)
CENENT-		2 016	BENTONITE (25#)
PENTONITE SURRY		- JANN DA	
GROUT		TOS, TO	KAIL BRIRGED -
		· PLANE	TTEO SAND JUTO SING READY-MIK (~400 GALLONS)
			In the READY-MUM
		WALLER	700 GALLONS
	18'		
		BENTONIE PRIET	
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	20.0		
RED FLINT			
DENSITY GAND		╺┼╶┼╼┼╼┼╾┼	
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BENTINITE PERLET STAL	41.8'		╺┾╾┾╾┾╌┾╌┿╌┽╌┥
RED FLINT DENSITY 47	- 42-5'		┽┾┾┾┾┼┼┥
AND BACAFUL ->	in 4 dia	BREHOLE	╋╍╊╺╊╺╊╺┠╺┠╺╿
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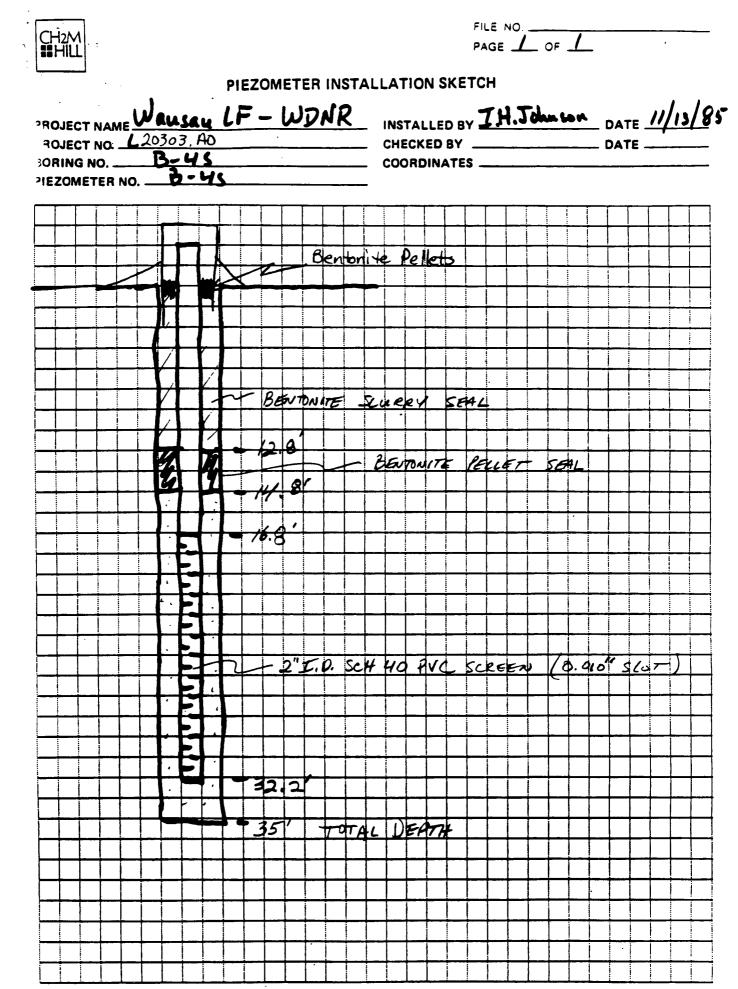
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PIEZOMETER INSTALLATION SKETCH

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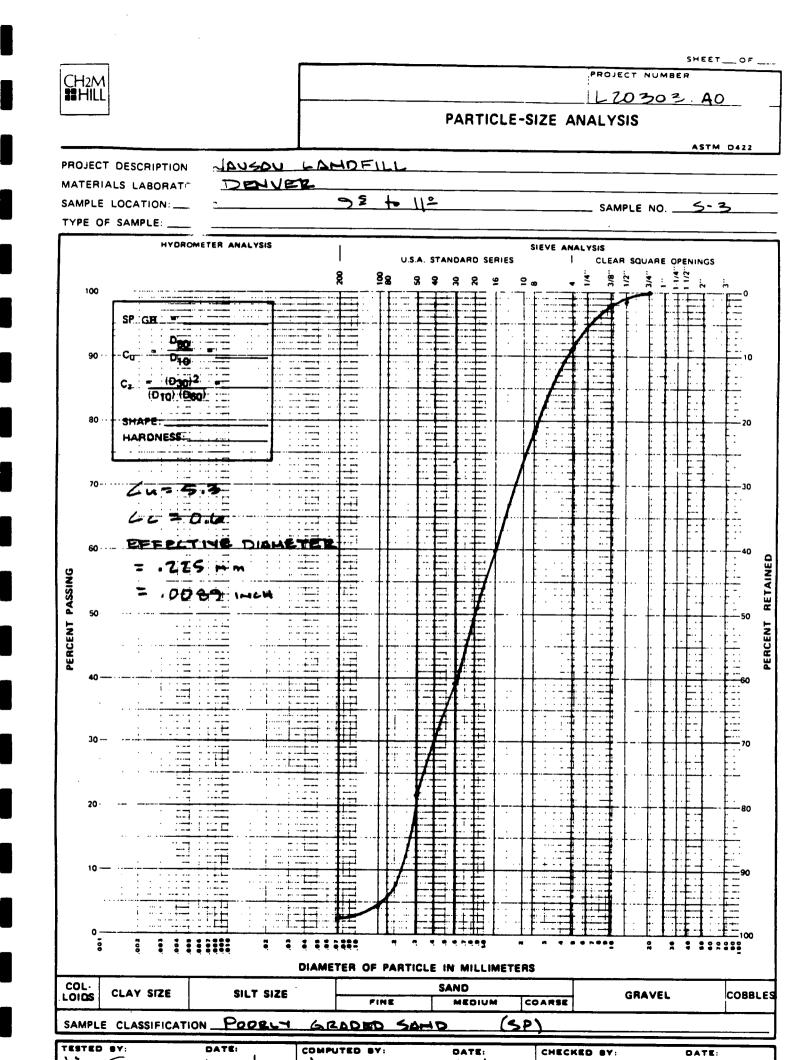


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BORING NO.	<u>B-75</u>		COORDINATES		_ DATE
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Appendix D GEOTECHNICAL ANALYSES OF SOILS

		•				ļ					DOJECT NUM	
		• ·			·			SI	EVE A	NALYSIS	_ 20 21	03.AO
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PROJECT D	ESCRI	PTION:	X	100	<u>500</u>	LANDA	Ellala					ASTM D42
ATERIALS	S LABO	ORATORY	:		EHV							
TYPE OF S						<u> </u>	to 11 2				SAMPLE NO.	5-3
GROSS WE												
GROSS DRY	1 MAS	S TOTAL	SA	MPLE:	483. 483.	O TARE MASS	54.3 PAN N	10. <u> </u>	NET	WET MASS	TOTAL SAM	
COARSE F						LIANE MASSE	DTAD PAN N	10. <u> </u>	NET	DRY MASS	TOTAL SAM	N
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3/8		160.3	2	158					1.5	1.5	98.5	
FINE FRACT	TION					MOISTURE	6.0		0.5	2.0	98.0	
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STANDARD						SH, D <u>300</u> 292.9			RSION	FACTOR, F	•. <u> </u>	NIA
<u>}</u>					WASH .	SH, D 200	RETAINED		PER RET	FACTOR, F	ACCUMULA-	
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STANDARD SIEVE DESIGNATION		DIVIDUAL GROSS MASS BO.S		TAR MAS (60,	WASH	SH, D 292.9 NET MASS NOIVIDUAL. E (AS RECORDED) 20.2 38.8	RETAINED		PER RET INDIVIO UAL 6.7 [2.9	FACTOR, F AINED ACCUMU- LATIVE 8.7 21.7	ACCUMULA- TIVE PERCENT PASSING	
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	STANDARD SIEVE DESIGNATION 4 8 116 30 50 50	IND G 15 15 160 36 400	IVIDUAL ROSS MASS 5.5 5.9 6.7 5.3 4.6 8.0	AFTE: TA M, (5) (5) (5) (5) (5) (5) (5) (5)	ARE ASS 5.5 5.9 5.7 5.3 5.3	ISH, D NET I NDIVIDUAL (AS RECORD 0.0 0.0 0.0 198.6 39.3 3.4	MASS R 	CONT ETAINED INDIVIDUAL (TOTAL BASIS) 0.0 0.4 1.2 11.2 209.8	/ERSION INDIV UAL 0.0 0.2 0.3 3.9 77.3		CTOR, F NT VED CCUMU. ATIVE D. C D.	- <u>C</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> -			
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	OJECT DESCRIPTION: WAVSAV LANDFILL TERIALS LABORATORY: DENVER													
	LOCATION:	S	le	192 10 218 SAMPLE NO. 5-5										
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COL·	CLAY SIZE	SILT SIZE		SAND FINE MEDIUM CC			GRAVEL		совв					
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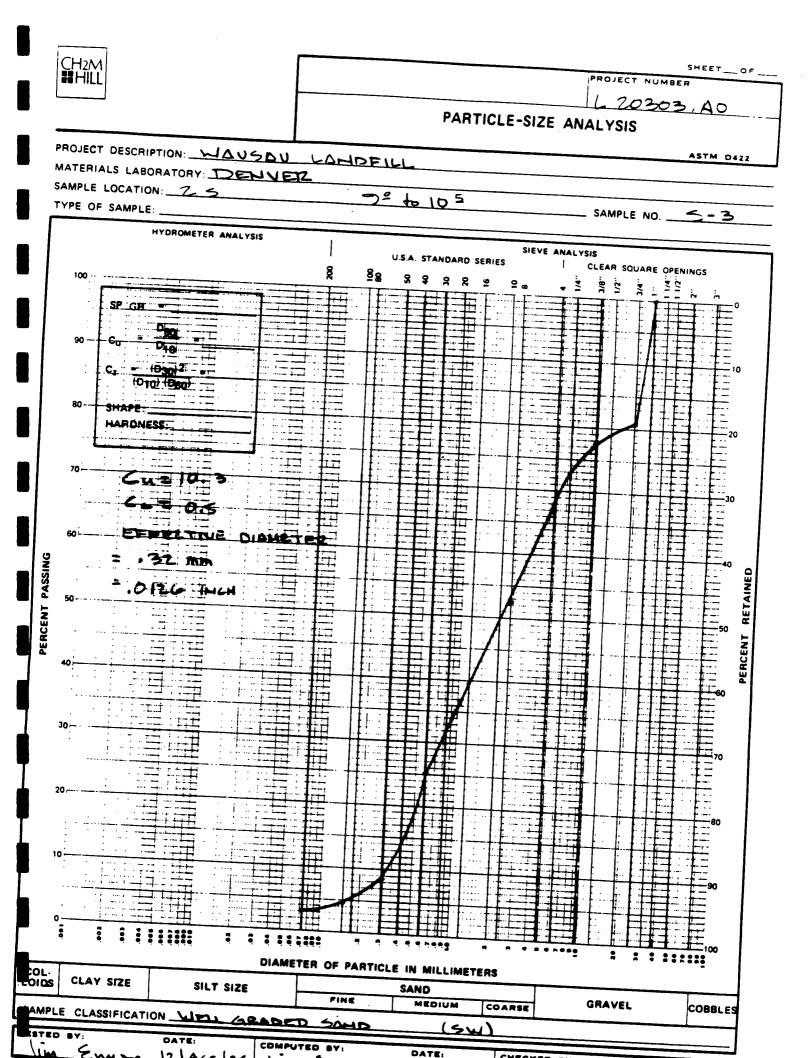
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HYDROMETER ANALYSIS WITH SIEVE

. .

<u>ا</u>		OCATION	N: 15	5		<u> </u>		-1 600	-~	(SAMPLE NO.	5-6
–		*****					<u>(164)</u>	<u>:d</u>	npe fo			
-4	MASS PER			1	.98	1			0		JPIC MOISTU	JRE CONTENT
H			DISTURE, %	6.	.23	HYDROME			<u>8.3922</u>			
	CORRECTE		MASS MPLE, (M)	27.3	7 Q	DISPERSIN			a(P03)6	GROSS WE		28.98
1	A PASSING					AMOUNT L			25 mL	MOISTURE		27.25
s	SIEVE, (B)	J	<u></u>	60.	21	SPECIFIC (GRAVITY, C	s,(a) I	2.70	TARE MAS		0.00
			L SOIL REP				SOIL USE	D IN HYDE	ROMETER	DRY SOIL		27.28
Ľ	TEST, (W):	• w	$N = \frac{M}{B} \times 100$		<u> </u>	.31			, 	MOISTUR	E CONTENT.	
L		T	r		t	н	R	Р	<u> </u>	к	D	
Į	Reading Time	Elapse Time N (minute	e Hydrome		remp. C		r Hydrometer	n % Sail in Suspension		K Vaiue from Chart 4	Diameter of Particle (mm)	
F	7 08 58		-		6 27.6	+	-	-	<u>†</u> -	-	-	
ŀ					6 22.6		7.2	15.8	14.7	_01303	-0363	
ł	02				6 22.6		5.0	11.0	15-1	_01303		
ŀ						6.3	4.0	8.8	15.2	01303		
·	13				- T	7 6.3	3.2	7.(15.3		.0093	
ł	28						2.7	5.8	15.4		.0066	
1	0952			/2 # / ~	2144.05	3 6.2						
ļ	130			73	1100 €	36.2	0.8	1.7	15.8	21300		
	80850	5 197	10 7.0		0122.00	<u># 6. ~</u>	10.0	<u> !• /</u>		.01300		
ł					.1	1 2					29	N-+11-pel
1	07120	2184	6 8.1		6[77.0	6.3	1.8	4.0	15.0	601303	.0030	35.27
			1 77		~~~~				10.0	1	1	
	1/2	+				5.95	0.0	C.0	0.0		87.3	·
	- <u>7</u> 8 - <u>4</u>							1		1	74.5	·
ļ			<u> </u>	2120	<u>CV73</u>					PERCENT	ACCUMUL	
	STAND SIEV DESIGN		GROSS MASS		TARE MASS		ET MASS RE	CCUMULA		LATIVE	TIVE	
	8	. /	50.75		4.92	· ·	83	17.75		6 37.94		
	10		51.62	- 12	<u>0.75</u>	5 0.5	87	18.62	2 1.81	<u>6 39.7</u>	9 60.2	<u> </u>
	16		54.44	1	1.67	1	84	21.46		7 45.8		
	30	<u> </u>	51.55		4.4		09	24.5		0 52.4		
	53	<u>, </u>	62.05	<u> </u>	7.55	5 4.	50	29.0			9 37.9	
	100		65.54	6	2.05	5 3.4	49	32.54	4 7.4	6 69.5	4 30.5	
	200	<u>ــــــــــــــــــــــــــــــــــــ</u>	63.16	6	5.5	4 2.	62	35.14	<u>o 5.6</u>	0 75.14	4 24.9	
	Pan	·	53.29	6	3.14	0.	.13	35.29	?			
	REMAR	IKS: (SH	OW UNITS	OF ME	ASURE	MENT)						-luin Dr
	Air	_	iu tar		<u> 22</u>	2 (total	(t)=/c	Aso)			HEIDE
15			F. Same J	le i	UeT	= 86.2	<u>.6 - 3</u> ;	3.20	= 53.2	<u>s);</u>	wittee W	ectore Conte
67				erer 31	æ =	27.29	+ 19.	51=	46.7	93	= 13.	.87

ļ							<u> </u>				ET OF
-	ICH2M HILL						•				
							SIE	VE AN	IALYSIS	2030	3.AD
											-
$ \langle -$	ROJECT DES		NANSAN		ANDE	· · · ·					ASTM D422/C13
		ABORATORY: _									
1		TION: 2				to 10	<u>s</u>		S	AMPLE NO.	5-3
	TYPE OF SAM	PLE: _ <u>SMD</u>	H 22	TL	<u> </u>						
	GROSS WET N	ASS TOTAL SA	AMPLE 467	Z_TAR	E MASS	3.BPAN	NO.21		NET MASS	TOTAL SAME	21 E
	GROSS DRY N	ASS TOTAL SA	MPLE <u>447</u>	- <u>3</u> TAR	E MASS <u>(5</u>	3.8PAN	NO.21		ORY MASS	TOTAL SAMP	PLE
	COARSE FRA		T WET MASS								
	STANDARD				NET MAS			PE	RCENT	ACCUMULA	
J	SIEVE DESIGNATIO	GROSS N MASS	TARE MASS	INC	VIDUAL	ACCUM	JLATIVE		AINED	Tive	SPECIFICATIONS
				1		1		1	LATIVE	PASSING	1
			1					<u> </u>	l		
									l		
	1	153.8	153.8								· ·
•	3/4	209.8				0.0			0.0	100	
	1/2	None			6.0 - к	56	<u>.0</u>		19.1	80.9	1
	3/8	218.9	209.		<u> </u>		•		one ple	1	· · · · · · · · · · · · · · · · · · ·
	FINE FRACTI					65		3.1	22.2	77.8	1
-	DRY MASS		T MASS					NET D	RY MASS, (;	
-1							CONV	ERSION P	ACTOR, F	•	NIA
_		· · · · ·					1	······			
•	STANDARD SIEVE DESIGNATION	INDIVIDUAL GROSS	TARE		NET MASS		-	RET	CENT AINED	ACCUMULA- TIVE PERCENT	
		· · · · · · · · · · · · · · · · · · ·	MASS	IAS R	ECORDED)	TOTA	L BASIS)	UAL	LATIVE	PASSING	SPECIFICATIONS
	4	247.3			8.4	93	.5	9.7	31.9	68.1	
	8	292.8			5.5	139).0	15.5	47.4	52.6	
	16	330.9			8.1	171	1.1	13.0	60.3	39.7	
		373.5	330.9	4	2.6	219	<u>).7</u>	14.5	74.9	25-1	
	50	1 1	373.5		3.2	26	7.9	16.4	91.3	8.7	
•	00	433.5	421.7		1.8	27	9.7	4.0	95.3	4.7	
	200	438-1	433.5	4	1.6	28	4.3	1 1	96.9	3.1	
	Pan	438.6	438.1	6		28	34.8				
	MOISTURE CO	NTENT DATA	UNITS			REMAR	KS:				
	CAN NO.			217		_		SH M	=11.47 =	438.5	- /53.8
•• ·	GROSS WET	MASS	sms 4	47.2]		<u></u>			
	GROSS DRY	MASS	- J	47.3		1				······	
ŀ	MOISTURE M	ASS		19.9		1			······································		
	TARE MASS			3.8		1	<u> </u>		— <u></u>		
	DRY SOIL MA	ASS		93.5		NOTES:		<u> </u>			
	MOISTURE C	ONTENT		2.78		1. SHO	W UNITS	OF MEAS	SUREMENT.		
	TESTED BY:		TE:		750	1					
		m 12/4		Jhu	Emen	12	NATE:	85 °	HECKED B	¥1	DATE:

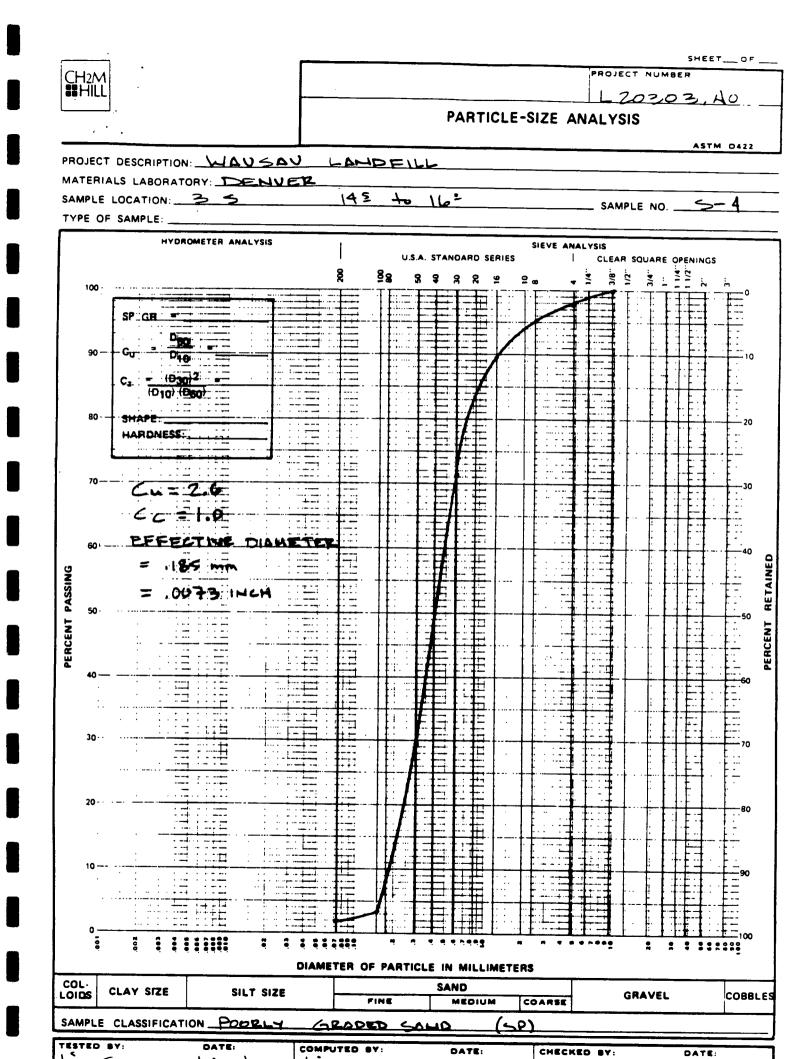


	· · ··						2030	23.AO
••	1 ••••	· · · · · · · ·		SI	EVE AI	NALYSIS		
PROJECT DES	CRIPTION	VANSA	N LAND	· · · · · · · · · · · · · · · · · · ·				ASTM 0422/0
	ABORATORY:				·· .	· <u> </u>		
•	ATION:			to 11 2				
TYPE OF SAN		ALL PC	DTTLE			S.	AMPLE NO	3-3
GROSS WET	MASS TOTAL	SAMPLE 44	9.7 TARE MASS	149.0 PAN NO. U	NET	WET MASS	TOTAL SAME	·
COARSE FR	ACTION: NE	ET WET MAS	TARE MASS	49-0 PAN NO. 4	NET	DRY MASS	TOTAL SAMP	PLE, A 287.
STANDARD		1		MOISTURE, %			Y MASS	
SIEVE DESIGNATIO	GROSS	TARE		SS RETAINED	RE		ACCUMULA	
				- ACCUMULATIVE		LATIVE	PERCENT	SPECIFICATION
1	149.0	140						
3/4		149.		0.0	0.0	0.0	100	
1/2	160.6				4.0	4.0	96.0	
	190.4			41.4	10.4	14.4	85.6	
3/8	200.2	190.	4 9.8	51.2 "	3.4	17.8	82.2	
DRY MASS		ET MASS	WASH, D 287			RY MASS, C		
	INDIVIDUAL	PRIOR TO	WASH, D <u>287</u> ASH <u>274</u> NET MAS	CONVI	ERSION I PER RET	FACTOR, F		
STANDARD	INDIVIDUAL - GROSS MASS	AFTER WA	WASH, D 287 ASH 274. NET MAS NOIVIDUAL, E (AS RECORDED	CONVI S RETAINED	PERSION I PER RET INDIVID	CENT AINED ACCUMU- LATIVE		
DRY MASS	INDIVIDUAL GROSS MASS	AFTER WA	WASH, D 287 ASH 274. NET MAS NOIVIDUAL. E (AS RECORDED 2 42.1	S RETAINED	PERSION I RET INDIVID UAL 14.6	ACTOR, F CENT AINED ACCUMU- LATIVE 32.4	ACCUMULA-	
DRY MASS	INDIVIDUAL GROSS MASS 242.3 281.1	AFTER WA TARE MASS 200.2 242.3	WASH, D 287 ASH 274. NET MAS INDIVIDUAL. E (AS RECORDED 2 42.1 3 38.8	9 CONVI S RETAINED (F) INDIVIDUAL (TOTAL BASIS) 93.3 132.1	PER RET INDIVID UAL 14.6	ACTOR, F CENT AINED ACCUMU- LATIVE 32.4 45.9	ACCUMULA- TIVE PERCENT PASSING	
STANDARD SIEVE DESIGNATION 4 8	INDIVIDUAL · GROSS MASS 242.3 281.1 319.5	PRIOR TO AFTER WA TARE MASS 200.2 242.3 28(, 1)	WASH, D 287 ASH 274. NET MAS INDIVIDUAL. E IAS RECORDED 2 42.1 3 38.8 (38.4	.9 CONVI S RETAINED (F) INDIVIDUAL (TOTAL BASIS) 93.3 132.1 170.5	PER RET INDIVID UAL 14.6	ACTOR, F CENT AINED ACCUMU- LATIVE 32.4	ACCUMULA- TIVE PERCENT PASSING	
DRY MASS STANDARD SIEVE DESIGNATION 4 8 1(0 30	INDIVIDUAL · GROSS MASS 242.3 281.1 319.5 372.6	PRIOR TO AFTER WA TARE MASS 200.2 242.3 28(, 0) 3(9.5)	WASH, D 287 ASH 274. NET MAS NOIVIDUAL. E (AS RECORDED 2 42.1 3 38.8 (38.4 5 53.1	9 CONVI S RETAINED (F) INDIVIDUAL (TOTAL BASIS) 93.3 132.1 170.5 223.6	PER RET INDIVID- UAL 14.6 13.5 13.3 18.4	ACTOR, F CENT AINED ACCUMU- LATIVE 32.4 45.9 59.2 77.7	ACCUMULA- TIVE PERCENT PASSING 67-6 54-1	
DRY MASS STANDARD SIEVE DESIGNATION 4 8 (6 30 50	INDIVIDUAL GROSS MASS 242.3 281.1 319.5 372.6 405.1	PRIOR TO AFTER WA TARE MASS 200.2 242.3 28(, 0) 3(9.5) 372.0	WASH, D 287 ASH 274. NET MAS NOIVIDUAL. E (AS RECORDED 2 42.1 3 38.8 (38.4 5 53.1 6 32.5	.9 CONVI S RETAINED (F) INDIVIDUAL (TOTAL BASIS) 93.3 132.1 170.5 223.6 256.1	PER RET INDIVID- UAL 14.6 13.5 13.3 18.4	ACTOR, F CENT AINED ACCUMU- LATIVE 32.4 45.9 59.2	ACCUMULA- TIVE PERCENT PASSING 67.6 54.1 40.8	
DRY MASS STANDARD SIEVE DESIGNATION 4 8 16 30 50 100	INDIVIDUAL · GROSS MASS 242.3 281.1 319.5 372.6 405.1 415.9	PRIOR TO AFTER WA TARE MASS 200.7 242.3 28(, 0 3(9.5 372.0 405.1	WASH, D 287 ASH 274. NET MAS INDIVIDUAL. E (AS RECORDED 2 42.1 3 38.8 (38.4 5 53.1 6 32.5 10.8	9 CONVI S RETAINED (F) INDIVIDUAL (TOTAL BASIS) 93.3 132.1 170.5 223.6	PER RET INDIVID UAL 14.6 13.5 13.3 18.4 11.3	ACTOR, F CENT AINED ACCUMU- LATIVE 32.4 45.9 59.2 77.7	ACCUMULA- TIVE PERCENT PASSING 67.6 54.1 40.8 22.3	
DRY MASS STANDARD SIEVE DESIGNATION 4 8 16 30 50 100 200	INDIVIDUAL - GROSS MASS 242.3 281.1 319.5 372.6 405.1 415.9 422.5	PRIOR TO AFTER WA TARE MASS 200.2 242.3 28(, 0 3(9.5 372.0 405.1 415.9	WASH, D 287 ASH 274. NET MAS INDIVIDUAL. E IAS RECORDED 2 42.1 3 38.8 (38.4 5 53.1 6 32.5 10.8 6 6.6	.9 CONVI S RETAINED (F) INDIVIDUAL (TOTAL BASIS) 93.3 132.1 170.5 223.6 256.1 266.9 273.5	PER RET INDIVID UAL 14.6 13.5 13.3 18.4 11.3 3.8	ACTOR, F CENT AINED ACCUMU- LATIVE 32.4 45.9 59.2 77.7 89.0	- <u>C</u> - <u>D</u> - <u>C</u> - <u>D</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> - <u>C</u> -	
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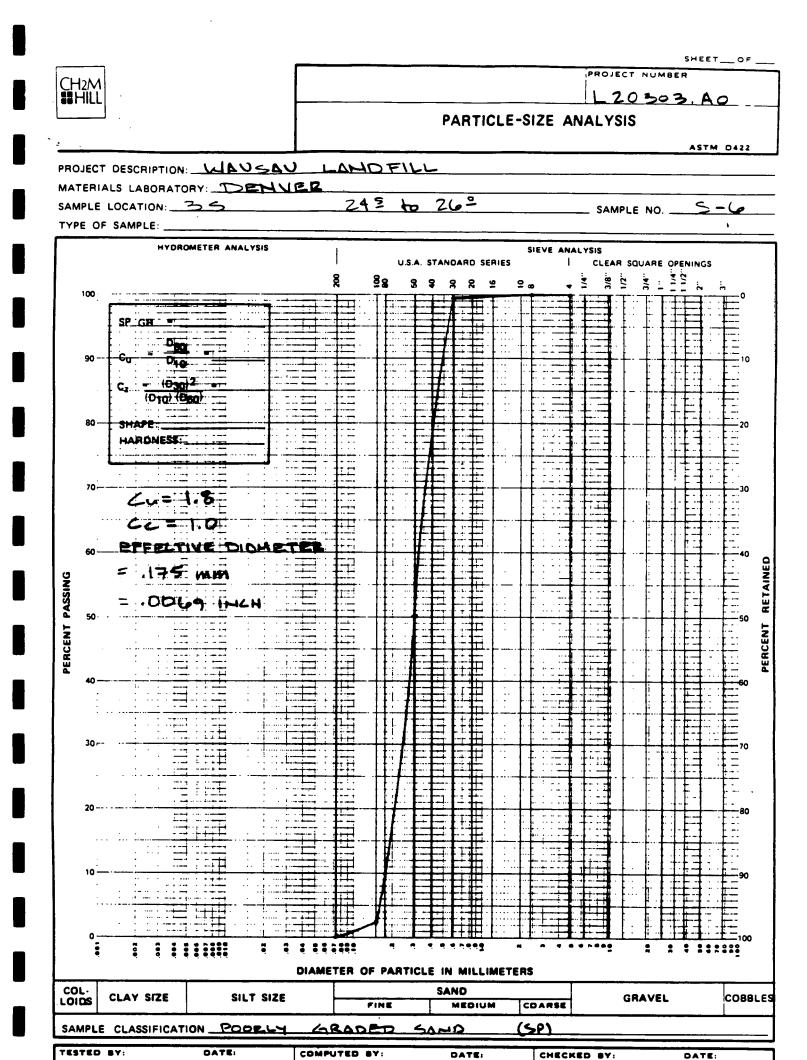
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YPE OF	SAMPLE:			······································				
	LOCATION: 35		<u> </u>	to 11=		SAMPLE	NO	3
	ALS LABORATORY: DE							
ROJECT		JSAU LA	HOFILL		<u> </u>		ASTM	D422
				PARTIC	.C-512E A	NALYSIS		
I#I"11.L.				PARTICI	E-SIZE A		303.AC	
						PROJECT		
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PROJECT DES	CRIPTION:	WAUS	500	LANDF					ASTM D422
TERIALS	LABORATORY:	DE	HV	ER					
				145 to	160		s	AMPLE NO.	5-4
GROSS WET	MASS TOTAL	SAMPLE	398.9	BTARE MASS	9.0 PAN NO. M	NET	WET MASS		
			2 1 7 1	TARE MASS	7-0 PAN NO. M	L_NET	DRY MASS	TOTAL SAME	
COARSE FR	ACTION: NI	ET WET M	ASS _		MOISTURE, %		NET DR	YMASS	
STANDARD SIEVE					S RETAINED	PE	RCENT	1	
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3/8	149.2	140	3 2	0.0					
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FINE FRACTI	ON: NET W	ET MASS.		MOISTURE,	. *	NET D	RY MASS. (
DRY MASS		PRIOR T		SH, D228		NET D	RY MASS, (
DRY MASS		PRIOR T			<u>3.0 </u>		RY MASS, (
DRY MASS		PRIOR T		sн, D <u>228</u> 223.7	3.0 CONV	ERSION	ACTOR, F	• <u> </u>	NIA
DRY MASS		PRIOR T	TO WAS	SH, D228 223.7 NET MASS		PERSION	ACTOR, F		N A
DRY MASS	INDIVIDUAL GROSS MASS	PRIOR 1	TO WASH	SH, D 228 223.7 NET MASS NDIVIDUAL. E (AS RECORDED)	RETAINED	PERSION	ACTOR, F		
DRY MASS DRY MASS STANDARD SIEVE DESIGNATION	INDIVIDUAL GROSS MASS	PRIOR T AFTER TAR MAS	VASH WASH	SH, D228 223.7 NET MASS		PERSION I	ACTOR, F	C D ACCUMULA- TIVE PERCENT	
DRY MASS DRY MASS STANDARD SIEVE DESIGNATION 4	INDIVIDUAL GROSS MASS 154.1 160.4	PRIOR 1	VASH WASH	SH, D228 223.7 NET MASS NDIVIDUAL. E ((AS RECORDED)	RETAINED	PERSION I RET INDIVIO UAL	ACTOR, F CENT AINED ACCUMU- LATIVE	C D ACCUMULA- TIVE PERCENT PASSING	
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DRY MASS DRY MASS STANDARD SIEVE DESIGNATION 4	INDIVIDUAL GROSS MASS 154.1 160.4	PRIOR T AFTER TAR MAS	FO WASH WASH SS 2 • 1 • 1	SH, D228 223.7 NET MASS NOIVIDUAL. E ((AS RECORDED)) 4.9 6.3	3.0 RETAINED (TOTAL BASIS) 4.9 11.2 23.9	PERSION I RET INDIVIO UAL Z.(Z.8 S.6	ACTOR, F CENT AINED ACCUMU- LATIVE Z.(4.9 10.5	C D ACCUMULA- TIVE PERCENT PASSING 97.9 95.1 89.5	
DRY MASS DRY MASS STANDARD SIEVE DESIGNATION 4 8	INDIVIDUAL GROSS MASS 154. 160. 4 173. (PRIOR T AFTER TAR MAS 149 159 160	FO WASH WASH SS • 2_ • 1 • 1 • 1	SH, D 228 223.7 NET MASS NDIVIDUAL. E (AS RECORDED) 4.9 6.3 12.7 4/.6	B.O CONV RETAINED FI INDIVIDUAL ITOTAL BASISI 4.9 11.2 23.9 65.5	PER RET INDIVID UAL Z.(Z.8 S.6 /8.2	ACTOR, F CENT AINED ACCUMU- LATIVE 2.1 4.9 10.5 28.7	- <u>C</u> - <u>D</u> - <u>D</u> - <u>TIVE</u> PERCENT PASSING 97.9 95.1 89.5 71.3	
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DRY MASS DRY MASS STANDARD SIEVE DESIGNATION 4 8 16 30 50	INDIVIDUAL GROSS MASS 154.1 160.4 173.1 214.7 309.7 369.4	PRIOR T AFTER TAR MAS 149, 159 160 173 214 309	ro wash wash	SH, D 228 223.7 NET MASS NDIVIDUAL. E ((AS RECORDED) 4.9 6.3 12.7 4/.6 95.0 59.7	B.O CONV RETAINED INDIVIDUAL ITOTAL BASISI 4.9 11.2 23.9 65.5 160.5 220.2	PER RET INDIVID UAL 2.1 2.8 5.6 18.2 41.7 26.2	ACTOR, F CENT AINED ACCUMU- LATIVE 2.1 4.9 10.5 28.7 70.4 96.6	- <u>C</u> D ACCUMULA- TIVE PERCENT PASSING 97.9 95.1 89.5 71.3 29.6 3.4	
DRY MASS DRY MASS STANDARD SIEVE DESIGNATION 4 8 16 30 50 100 200	INDIVIDUAL GROSS MASS 154. 1 160. 4 173. 1 214. 7 309. 7 369. 4 372. 7	PRIOR 1 AFTER TAR MAS 149 154 160 173 214 309 369	FO WASH WASH SS • 1 • 1 • 1 • 1 • 1 • 1 • 1 • 1 • 1 • 1	SH, D 223.7 NET MASS NDIVIDUAL. E (AS RECORDED) 4.9 6.3 12.7 4/.6 95.0 59.7 3.3	B.O CONV RETAINED INDIVIDUAL ITOTAL BASISI 4.9 11.2 23.9 65.5 160.5 220.2 223.5	PER RET INDIVID UAL 2.1 2.8 5.6 18.2 41.7 26.2	ACTOR, F CENT AINED ACCUMU- LATIVE 2.1 4.9 10.5 28.7 70.4	- <u>C</u> D ACCUMULA- TIVE PERCENT PASSING 97.9 95.1 89.5 71.3 29.6	
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DRY MASS DRY MASS STANDARD SIEVE DESIGNATION 4 8 16 30 50 100 200 Pani	INDIVIDUAL GROSS MASS 154. 1 160.4 173.1 214.7 309.7 369.4 372.7 372.8	PRIOR T AFTER TAR MAS 149, 154 160 173 214 309 369 369	FO WASH WASH SS • 1 • 1 • 1 • 1 • 1 • 7 • 7 • 7 • 7 • 7 • 7	SH, D 228 223.7 NET MASS NDIVIDUAL. E IAS RECORDEDII 4.9 6.3 12.7 41.6 95.0 59.7 3.3 0.1	B.O CONV RETAINED F) INDIVIDUAL (TOTAL BASIS) 4.9 11.2 23.9 65.5 160.5 220.2 223.5 223.6 REMARKS:	PERSION 1 RET INDIVIDUUAL Z. (2.8 5.6 18.2 41.7 26.2 1.4	ACTOR, F CENT AINED ACCUMU- LATIVE 2.1 4.9 10.5 28.7 70.4 96.6 98.0	- <u>C</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> -	
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DRY MASS DRY MASS STANDARD SIEVE DESIGNATION 4 8 16 30 50 100 200 200 Pani NOISTURE COM GROSS WET M GROSS DRY M MOISTURE MASS	INDIVIDUAL GROSS MASS IS4. 160.4 173.1 214.7 309.7 369.4 372.7 372.8 NTENT DATA; MASS ASS SS DNTENT	PRIOR 1 AFTER TAR MAS 149 154 160 173 214 309 369 369 372 UNITS	ro wash wash .2 .4 .7 .7 .7 .7 .7 .7 .7 .7 .7 .7 .7 .7 .7	SH, D 228 223.7 NET MASS NDIVIDUAL. E (AS RECORDED) 4.9 6.3 12.7 4/.6 95.0 59.7 3.3 0.1 8.8 .0 .8 .0	B.O CONV RETAINED FI INDIVIDUAL ITOTAL BASISI 4.9 11.2 23.9 65.5 160.5 220.2 223.6 REMARKS: <u>FIST</u> MA NOTES:	PER RET INDIVIDUAL Z.(2.8 5.6 /8.2 41.7 26.2 1.4	ACTOR, F CENT AINED ACCUMU- LATIVE 2.1 4.9 10.5 28.7 70.4 96.6 98.0 =1/4HT =	- <u>C</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> -	



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				<u> </u>	• ¹⁷				ASTM 0422/
ATERIALS	ABORATORY:	<u>vav</u>	<u>Sav</u>	LANDF					
	ATION: 3			245 to					
	APLE: SM			<u> </u>	. 26=		s	AMPLE NO.	<u>S-6</u>
CROSS DRY	MASS TOTAL	SAMPLE.	416.	<u>5 tare mass//</u>	A.G PAN NO.2	2 <u>3</u> NET	WET MASS	TOTAL SAM	PLE
		SAMPLE	103.	TARE MASS	2.6 PAN NO.2	23_NET	DRY MASS	TOTAL SAM	PLE, A 234.
CDARSE FR.	ACTION: N	ET WET	MASS _		MOISTURE, %		NET OR	Y MASS	
STANDARD SIEVE	GROSS		ARE		S RETAINED	PE	RCENT	ACCUMULA	
DESIGNATIO			IASS	INDIVIDUAL	ACCUMULATIV	, INDIVIO	TAINED	TIVE	
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		PRIOR	TO WA	MOISTURE, SH, D <u>234</u> 232.6			FACTOR, F		NIA
DRY MASS	INDIVIDUAL	PRIOR AFTER	TO WA: WASH	SH, D 234 232.6 NET MASS	.3 CONV	PERSION	FACTOR, F		
DRY MASS	INDIVIDUAL GROSS MASS	PRIOR AFTER TAF MAS	TO WASH	NET MASS	,3 CONV	PERSION	FACTOR, F		
DRY MASS DRY MASS STANDARD SIEVE DESIGNATION	INDIVIDUAL GROSS MASS (69.7	AFTER TAF MA:	TO WASH	SH, D 234	RETAINED	PERSION	FACTOR, F	ACCUMULA-	
DRY MASS DRY MASS STANDARD SIEVE DESIGNATION	INDIVIDUAL GROSS MASS /69.7 169.8	PRIOR AFTER TAF MA: (69, (69)	TO WASH WASH	NET MASS	RETAINED	PERSION PER RET INDIVIO UAL	FACTOR, F	ACCUMULA- TIVE PERCENT PASSING	
DRY MASS DRY MASS STANDARD SIEVE DESIGNATION 4 8	INDIVIDUAL GROSS MASS /69.7 169.8 169.9	AFTER TAF MA:	TO WASH WASH	SH, D 234 232.6 NET MASS NOIVIDUAL. E IAS RECORDEDIN	RETAINED	PER RET INDIVIO UAL 0.0 4.3x10 ⁻²	FACTOR, F ACENT AINED ACCUMU- LATIVE C.O 4.3 EID	ACCUMULA- TIVE PERCENT PASSING	
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DRY MASS DRY MASS STANDARD SIEVE DESIGNATION 4 8 1(0 30 50	INDIVIDUAL GROSS MASS /69.7 169.8 169.9 170.8 286.1	PRIOR AFTER TAF (69) (69) (69) (69) (69) (169) (169) (169) (169) (169) (169)	TO WA: WASH 7 .7 .7 .7 .9 .8 .8	SH, D 234 232.6 NET MASS NOIVIDUAL. E IAS RECORDEDI 0.0 0.1 0.1 0.9 115.3 112.0	3 CONV RETAINED 71 INDIVIDUAL ITOTAL BASIS 0.0 0.0 0.2 1.1 116.4 228.4	PERSION RET INDIVIO UAL 0.0 4.3x10 ² 4.3x10 ² 4.3x10 ² 4.3x10 ² 4.3x10 ² 4.3x10 ² 4.3x10 ²	FACTOR, F AINED ACCUMU- LATIVE 0.0 4.3 x10 ⁻² 0.1 0.5 49.7 97.5	- <u>c</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> -	
DRY MASS DRY MASS STANDARD SIEVE DESIGNATION 4 8 1(0 30 50 100 200	INDIVIDUAL GROSS MASS /69.7 169.8 169.9 170.8 286.1 398.1 402.2	PRIOR AFTER TAF MAI 169 169 169 169 169 169 169 286 398	TO WASH WASH 7 .7 .7 .7 .9 .8 .9 .8	SH, D 234 232.6 NET MASS NOIVIDUAL E IAS RECORDEDI 0.0 0.1 0.1 0.1 115.3 112.0 4.1	3 CONV RETAINED 71 INDIVIDUAL (TOTAL BASIS) 0.0 0.0 0.0 0.0 1.1 116.4 228.4 232.5	PERSION RET INDIVIO UAL 0.0 4.3x10 ⁻² 4.3x10 ⁻² 0.4 49,2	FACTOR, F AINED ACCUMU- LATIVE 0.0 4.3 x10-2 0.1 0.5 49.7	- <u>c</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> -	SPECIFICATION
DRY MASS DRY MASS SIEVE DESIGNATION 4 8 16 30 50 100	INDIVIDUAL GROSS MASS /69.7 169.8 169.9 170.8 286.1 398.1 402.2	PRIOR AFTER TAF (69) (69) (69) (69) (69) (169) (169) (169) (169) (169) (169)	TO WASH WASH 7 .7 .7 .7 .9 .8 .9 .8	SH, D 234 232.6 NET MASS NOIVIDUAL. E IAS RECORDEDI 0.0 0.1 0.1 0.9 115.3 112.0	3 CONV RETAINED 71 INDIVIDUAL ITOTAL BASIS 0.0 0.0 0.2 1.1 116.4 228.4	PERSION RET INDIVIO UAL 0.0 4.3x10 ² 4.3x10 ² 4.3x10 ² 4.3x10 ² 4.3x10 ² 4.3x10 ² 4.3x10 ²	FACTOR, F AINED ACCUMU- LATIVE 0.0 4.3 x10 ⁻² 0.1 0.5 49.7 97.5	- <u>c</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> -	
DRY MASS DRY MASS STANDARD SIEVE DESIGNATION 4 8 16 30 50 100 200 Pani	INDIVIDUAL GROSS MASS /69.7 169.8 169.9 170.8 286.1 398.1 402.2	PRIOR AFTER TAF MAX 169 169 169 169 169 169 169 169 169 169	TO WASH WASH 35 7 .7 .7 .7 .7 .7 .7 .8 .9 .8 .1 .2	SH, D 234 232.6 NET MASS INDIVIDUAL. E IAS RECORDEDI 0.0 0.1 0.1 115.3 112.0 4.1 0.1	3 CONV RETAINED F) INDIVIDUAL (TOTAL BASIS) 0.0 0.0 0.0 0.0 1.1 116.4 228.4 232.5 232.6 REMARKS:	PERSION PER RET INDIVIO UAL 0.0 4.3x10 ⁻² 0.4 49.2 47.8 1.7	FACTOR, F AINED ACCUMU- LATIVE 0.0 4.3 x10 ⁻² 0.1 0.5 49.7 97.5 99.2	- <u>c</u> - <u>b</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> -	
DRY MASS DRY MASS STANDARD SIEVE DESIGNATION 4 8 16 30 50 100 200 200 Pall MOISTURE CON CAN NO.	INDIVIDUAL GROSS MASS /69.7 169.8 169.9 170.8 286.1 398.1 402.1 402.3 NTENT DATA	PRIOR AFTER TAF MAX 169 169 169 169 169 169 169 169 169 169	TO WASH WASH 35 7 .7 .7 .7 .7 .7 .7 .8 .9 .8 .1 .2	SH, D 234 232.6 NET MASS NOIVIDUAL E IAS RECORDEDI 0.0 0.1 0.1 0.1 115.3 112.0 4.1	3 CONV RETAINED F) INDIVIDUAL (TOTAL BASIS) 0.0 0.0 0.0 0.0 1.1 116.4 228.4 232.5 232.6 REMARKS:	PERSION PER RET INDIVIO UAL 0.0 4.3x10 ⁻² 0.4 49.2 47.8 1.7	FACTOR, F AINED ACCUMU- LATIVE 0.0 4.3 x10 ⁻² 0.1 0.5 49.7 97.5 99.2	- <u>c</u> - <u>b</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> -	
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DRY MASS DRY MASS DRY MASS SIEVE DESIGNATION 4 8 10 30 50 100 200 Pal MOISTURE CON CAN NO. GROSS WET M GROSS DRY M	INDIVIDUAL GROSS MASS /69.7 169.8 169.9 170.8 286.1 398.1 402.2 402.3 NTENT DATA MASS MASS	PRIOR AFTER TAF MAX 169 169 169 169 169 169 170 286 398 402 UNITS	TO WASH WASH 7 .7 .7 .9 .8 .9 .8 .1 .2 .2 .2	SH, D 234 232.6 NET MASS NDIVIDUAL. E IAS RECORDEDI 0.0 0.1 115.3 112.0 4.1 0.1 23 5.5	3 CONV RETAINED F) INDIVIDUAL (TOTAL BASIS) 0.0 0.0 0.0 0.0 1.1 116.4 228.4 232.5 232.6 REMARKS:	PERSION PER RET INDIVIO UAL 0.0 4.3x10 ⁻² 0.4 49.2 47.8 1.7	FACTOR, F AINED ACCUMU- LATIVE 0.0 4.3 x10 ⁻² 0.1 0.5 49.7 97.5 99.2	- <u>c</u> - <u>b</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> -	
DRY MASS DRY MASS STANDARD SIEVE DESIGNATION 4 8 16 30 50 100 200 200 200 200 200 200 200 200 20	INDIVIDUAL GROSS MASS /69.7 169.8 169.9 170.8 286.1 398.1 402.2 402.3 NTENT DATA MASS MASS	PRIOR AFTER TAF MAX 169 169 169 169 169 169 170 286 398 402 UNITS	TO WASH WASH .7 .7 .7 .9 .8 .9 .8 .1 .2 .2 .2 .2 .4 .6 .4 .6 .4 .6 .4 .6	SH, D 234 232.6 NET MASS NDIVIDUAL. E (AS RECORDED) 0.0 0.1 0.1 115.3 112.0 4.1 0.1 23 .5 .9	3 CONV RETAINED F) INDIVIDUAL (TOTAL BASIS) 0.0 0.0 0.0 0.0 1.1 116.4 228.4 232.5 232.6 REMARKS:	PERSION PER RET INDIVIO UAL 0.0 4.3x10 ⁻² 0.4 49.2 47.8 1.7	FACTOR, F AINED ACCUMU- LATIVE 0.0 4.3 x10 ⁻² 0.1 0.5 49.7 97.5 99.2	- <u>c</u> - <u>b</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> -	
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DRY MASS DRY MASS STANDARD SIEVE DESIGNATION 4 8 16 30 50 100 200 200 PAL MOISTURE COM CAN NO. GROSS WET M GROSS DRY M	INDIVIDUAL GROSS MASS /69.7 169.8 169.9 170.8 286.1 398.1 402.2 402.3 NTENT DATA MASS ASS	PRIOR AFTER TAF MAX 169 169 169 169 169 169 170 286 398 402 UNITS	TO WASH WASH 7 .7 .7 .7 .7 .7 .7 .7 .7 .7 .7 .7 .7	SH, D 234 232.6 NET MASS NOIVIDUAL. E IAS RECORDEDI 0.0 0.1 0.1 115.3 112.0 4.1 0.1 23 5 .9 .6	CONV RETAINED 71 INDIVIDUAL (TOTAL BASIS) 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	PERSION RET INDIVIO UAL 0.0 4.3x10 ⁻² 2.3x1	FACTOR, F AINED ACCUMU- LATIVE 0.0 4.3 x10-2 0.1 0.5 49.7 97.5 99.2	- <u>c</u> - <u>b</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> -	
DRY MASS DRY MASS DRY MASS STANDARD SIEVE DESIGNATION 4 8 16 30 50 100 200 Pall MOISTURE CON CAN NO. GROSS WET M GROSS DRY M MOISTURE MASS	INDIVIDUAL GROSS MASS /69.7 169.8 169.9 170.8 286.1 398.1 402.2 402.3 NTENT DATA MASS MASS ASS	PRIOR AFTER TAF MAX 169 169 169 169 169 169 170 286 398 402 UNITS	TO WASH WASH 7 .7 .7 .7 .7 .7 .7 .7 .7 .7 .7 .7 .7	SH, D 234 232.6 NET MASS NOIVIDUAL. E IAS RECORDEDI 0.0 0.1 0.1 115.3 112.0 4.1 0.1 23 5 .9 .6	CONV RETAINED 71 INDIVIDUAL (TOTAL BASIS) 0.0 0.0 0.0 0.0 0.0 1.1 116.4 232.5 232.6 REMARKS: <u>FIST</u> WA	PERSION RET INDIVIO UAL 0.0 4.3x10 ⁻² 2.3x1	FACTOR, F AINED ACCUMU- LATIVE 0.0 4.3 x10-2 0.1 0.5 49.7 97.5 99.2	- <u>c</u> - <u>b</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> - <u>c</u> -	



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- ;	PROJECT DESC		JANSA	5	LANDE	11.1-		· · · ·		
		BORATORY:								
	MPLE LOCAT	10N: 45	5			£ to 16=		SA	AMPLE NO	5-4
1	TYPE OF SAMP	LE: <u>SMD</u>	L Pr	27		·				
	GROSS WET M	ASS TOTAL SA	MPLE 30	0.7	TARE MASS	1.9 PAN NO.	D NET V	VET MASS	TOTAL SAMP	LE
						1.9 PAN NO.				
f	COARSE FRA	CTION: NET	WET MAS	ss		MOISTURE, % _		NET DR	MASS	· · · · · · · · · · · · · · · · · · ·
F	STANDARD	1	1			S RETAINED	PER	CENT	ACCUMULA	
	SIEVE	GROSS MASS	TAR MAS	-	INDIVIDUAL		INDIVID	AINED	TIME	SPECIFICATION
┢			<u> </u>			1		LATIVE	PASSING	
┢										
-			_							
		_								
	3/4	152.0	152	. 0	0.0	0.0	0.0	0.0	100	
	1/2	156.3	152.	0	4.3	4.3	3.1	3.1	96.9	
ſ	3/8	159.2			2.9	7.2	2.1	5.2	94.8	
	FINE FRACTI					• [
	DRY MASS		PRIOR TO) WAS	ын. D <u>139</u> <u>135.5</u>	• (VERSION	FACTOR, F		
	DRY MASS		PRIOR TO) WAS	SH, D 139 135.5 NET MASS		VERSION PER	FACTOR, F	• <u> </u>	
	DRY MASS	INDIVIDUAL	PRIOR TO	O WAS	NET MASS		VERSION	FACTOR, F	ACCUMULA- TIVE PERCENT PASSING	
	DRY MASS	INDIVIDUAL GROSS MASS	PRIOR TO AFTER W TARE MASS) was iash .	NET MASS	RETAINED	VERSION I PEF RET INDIVID UAL 4.0	FACTOR, F AINED ACCUMU- LATIVE 9.2	ACCUMULA- TIVE PERCENT PASSING 90.8	
	DRY MASS DRY MASS STANDARD SIEVE DESIGNATION	INDIVIDUAL GROSS MASS	PRIOR TO AFTER W TARE MASS) was /ash .2. 8	NET MASS	I CON RETAINED	VERSION I RET INDIVIO I UAL 4.0	FACTOR, F ACENT AINED ACCUMU- LATIVE 9.2 16.0	ACCUMULA- TIVE PERCENT PASSING 90.8 84.0	
	DRY MASS DRY MASS STANDARD SIEVE DESIGNATION 4	INDIVIDUAL GROSS MASS 164.8 174.3 185.0	PRIOR TO AFTER W TARE MASS /59. (64. 174.	wash iash .2 .3	NET MASS NOIVIDUAL. E (AS RECORDED) 5.6 9.5 10.7	. (CON RETAINED (F) INDIVIDUAL (TOTAL BASI /2.8 22.3 33.0	VERSION 1 PEF RET INDIVID UAL 4.0 6.8 7.7	FACTOR, F AINED ACCUMU- LATIVE 9.2 16.0 23.7	ACCUMULA TIVE PERCENT PASSING 90.8 84.0 76.3	SPECIFICATIO
	DRY MASS DRY MASS STANDARD SIEVE DESIGNATION 4 8 16 30	INDIVIDUAL GROSS MASS 164.8 174.3 185.0 203. (PRIOR TO AFTER W TARE MASS /59. (64. [74. [85.0	2 8 3	NET MASS NOIVIOUAL. E (AS RECORDED) 5.6 9.5 10.7 18.1	. 1 CON RETAINED (F) INDIVIDUAL (TOTAL BASI /2.8 22.3 33.0 51.1	VERSION I PEF RET INDIVID UAL 4.0 6.8 7.7 13.0	FACTOR, F AINED ACCUMU- LATIVE 9.2 16.0 23.7 36.7	- <u>C</u> - <u>D</u> - <u></u> ACCUMULA TIVE PERCENT PASSING 90.8 84.0 76.3 63.3	SPECIFICATIO
	DRY MASS DRY MASS STANDARD SIEVE DESIGNATION 4 8 16 30 50	INDIVIDUAL GROSS MASS 164.8 174.3 185.0 203.(239.3	PRIOR TO AFTER W TARE MASS /59. (64. 174. 185.0 203.	wash /ash 2 8 3 0	NET MASS NOIVIOUAL. E (AS RECORDED) 5.6 9.5 10.7 10.7 10.1 36.2	. 1 CON RETAINED (F) INDIVIDUAL (TOTAL #ASI /2.8 22.3 33.0 51.1 87.3	VERSION PEF RET INDIVID UAL 4.0 6.8 7.7 13.0 26.0	FACTOR, F AINED ACCUMU- LATIVE 9.2 16.0 23.7 36.7 62.8	- C - D 	SPECIFICATIO
	DRY MASS DRY MASS STANDARD SIEVE DESIGNATION 4 8 16 30 50 100	INDIVIDUAL GROSS MASS 164.8 174.3 185.0 203.(239.3 283.9	PRIOR TO AFTER W TARE MASS /59 (64. 174. 185.0 203. 239.	2 WAS VASH . 2 8 3 0 (3	SH, D 139 135.5 NET MASS NOIVIDUAL. E IAS RECORDEDI 5.6 9.5 10.7 10.7 10.7 10.1 34.2 44.6	. 1 CON RETAINED (F) INDIVIOUAL (TOTAL #ASI /2.8 22.3 33.0 51.1 87.3 131.9	VERSION I PEF RET INDIVID UAL 4.0 4.0 4.0 13.0 13.0 13.0 32.1	FACTOR, F AINED ACCUMU- LATIVE 9.2 16.0 23.7 36.7 62.8 94.8	- <u>C</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> -	SPECIFICATIO
	DRY MASS DRY MASS STANDARD SIEVE DESIGNATION 4 8 10 30 50 100 200	INDIVIDUAL GROSS MASS 164.8 174.3 185.0 203.(239.3 283.9 287.2	PRIOR TO AFTER W TARE MASS /59 (64. 174. 185. 283. 283.	was /ash .2 8 3 0 (9	I39 I35.5 NET MASS MOIVIDUAL. E IAS RECORDEDI 5.6 9.5 10.7 18.1 36.2 44.6 3.3	. (CON RETAINED (FI) INDIVIDUAL (TOTAL BASI /2.8 22.3 33.0 51.1 87.3 131.9 135.2	VERSION I RET INDIVID 4.0 6.8 7.7 13.0 26.0 32.1 2.4	FACTOR, F AINED ACCUMU- LATIVE 9.2 16.0 23.7 36.7 62.8	- C 0 - ACCUMULA TIVE PERCENT PASSING 90.8 84.0 76.3 63.3 37.2 5.2	SPECIFICATIO
	DRY MASS DRY MASS STANDARD SIEVE DESIGNATION 4 8 16 30 50 100 200 Pani	INDIVIDUAL GROSS MASS 164.8 174.3 185.0 203.(239.3 283.9 283.9 287.2 287.2	PRIOR TO AFTER W TARE MASS /59. (64. [74. [85.0 203. 239. 283. 287.	was /ash .2 8 3 0 (9	H, D 139 135.5 NET MASS NOIVIDUAL. E IAS RECORDEDI 5.6 9.5 10.7 18.1 36.2 44.6 3.3	. 1 CON RETAINED (F) INDIVIDUAL (TOTAL BASI /2.8 22.3 33.0 51.1 87.3 131.9 135.2 135.4	VERSION I RET INDIVID 4.0 6.8 7.7 13.0 26.0 32.1 2.4	FACTOR, F AINED ACCUMU- LATIVE 9.2 16.0 23.7 36.7 62.8 94.8	- <u>C</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> -	SPECIFICATIO
	DRY MASS DRY MASS STANDARD SIEVE DESIGNATION 4 8 16 30 50 100 200 Pan MOISTURE CO	INDIVIDUAL GROSS MASS 164.8 174.3 185.0 203.(239.3 283.9 283.9 287.2 287.2	PRIOR TO AFTER W TARE MASS /59. (64. [74. [85.0 203. 239. 283. 287.	wash ,2 8 3 0 (3 9 2 1 1 2	H, D 139 135.5 NET MASS NOIVIDUAL. E (AS RECORDED) 5.6 9.5 10.7 18.1 36.2 44.6 3.3 0.2	. 1 RETAINED (F) INDIVIDUAL (TOTAL BASI /2.8 22.3 33.0 51.1 87.3 131.9 135.2 135.4 REMARKS:	VERSION PEF RET INDIVID UAL 4.0 6.8 7.7 13.0 26.0 32.1 2.4	FACTOR, F AINED ACCUMU- LATIVE 9.2 16.0 23.7 36.7 62.8 94.8 97.2	- <u>C</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> - <u>D</u> -	SPECIFICATIO
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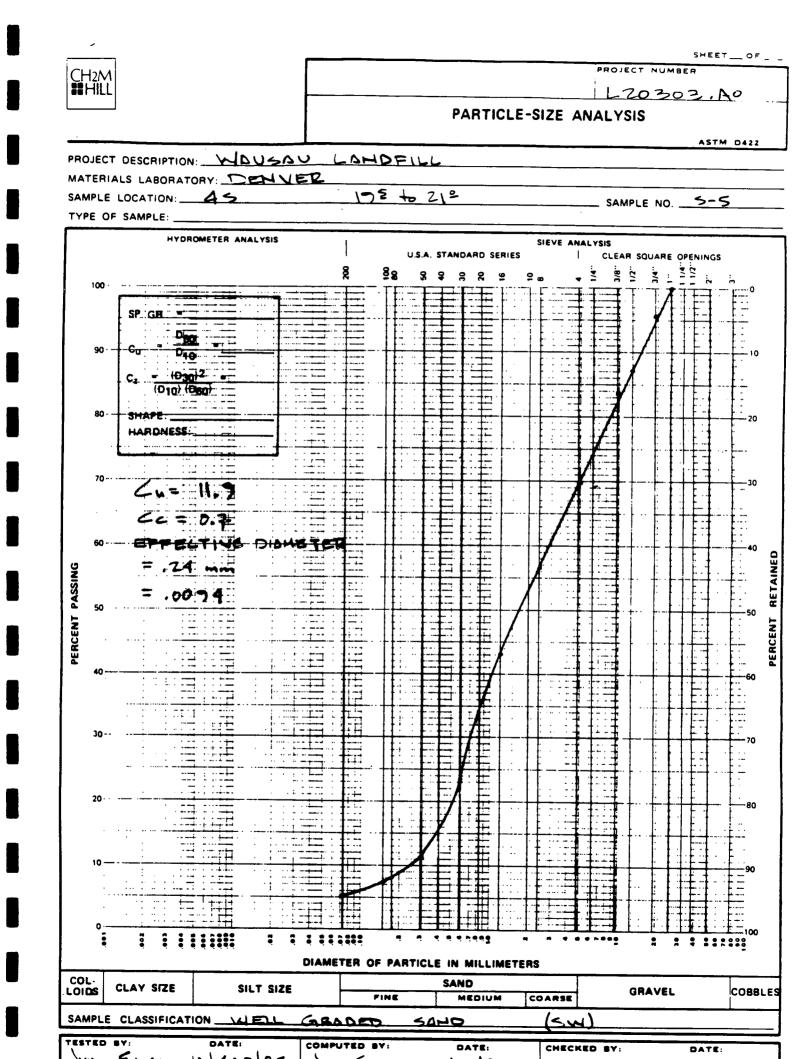
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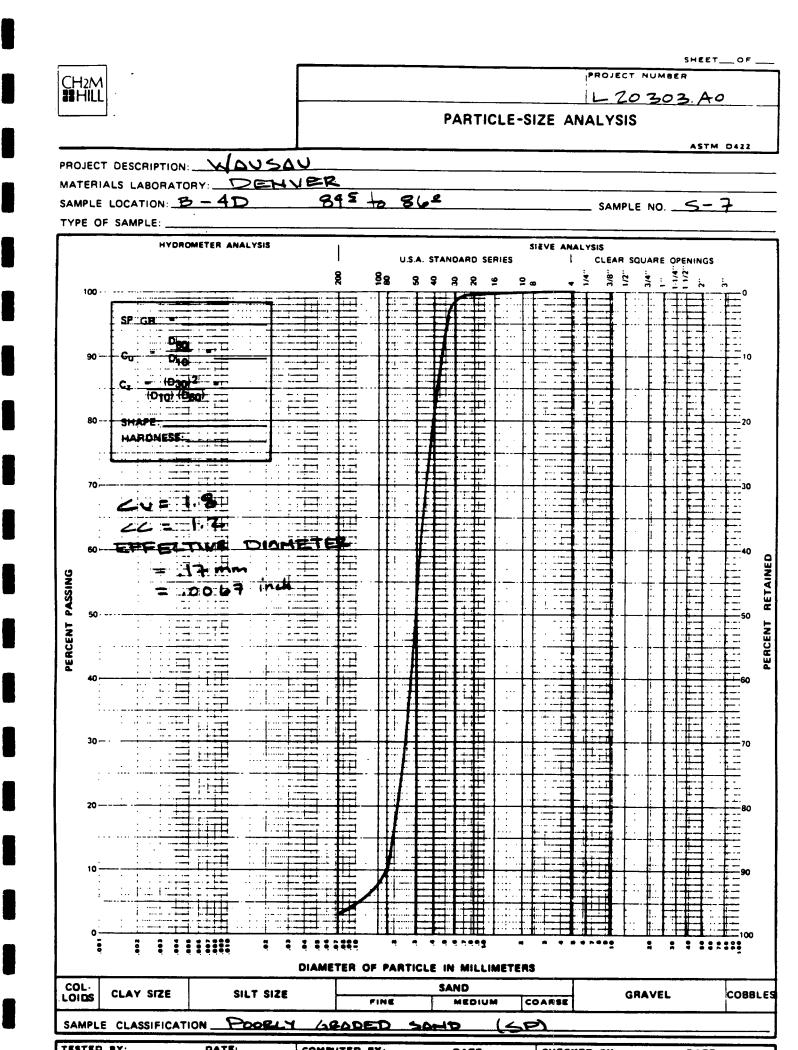
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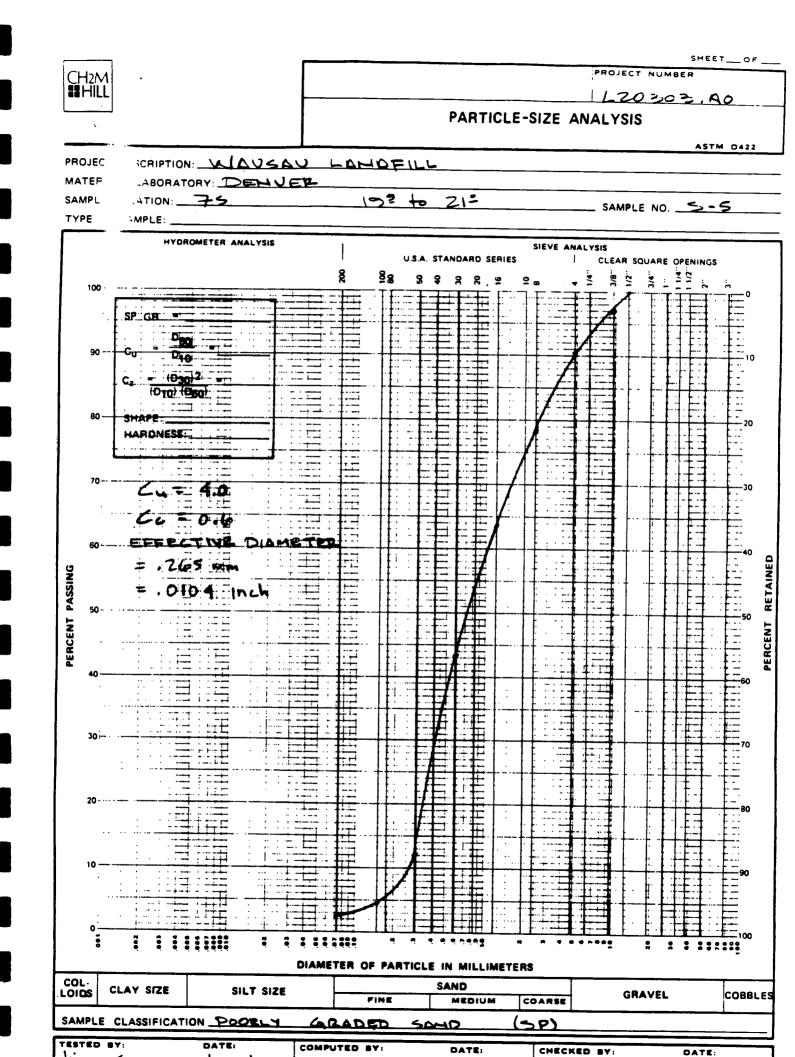
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3/8	150.2	- 1. 150.Z	0.0	0.0	0.0	00	100	
FINE FRACTIO	ON NET WE	T MASS	MOUCTURE					
DRY MASS		PRIOR TO WAS	мольтоне, sh, d264 258.1			RY MASS, C 		
STANDARD	INDIVIDUAL	PRIOR TO WAS	sh, d <u>264</u>	.9 CONV	ERSION	FACTOR, F		<u> </u>
DRY MASS		PRIOR TO WAS	sh, d <u>264</u> <u>258.1</u>		PERSION I	FACTOR, F	•. <u> </u>	
STANDARD	INDIVIDUAL GROSS MASS	PRIOR TO WAS	SH, D 264 258.1 NET MASS	CONV	PER RET	FACTOR, F	ACCUMULA- TIVE PERCENT PASSING	
DRY MASS	INDIVIDUAL GROSS MASS	PRIOR TO WAS	NET MASS	CONV	PERSION I RET INDIVID UAL	ACTOR, F	ACCUMULA- TIVE PERCENT PASSING	
DRY MASS	INDIVIDUAL GROSS MASS	AFTER WASH	SH, D 264 258.1 NET MASS NDIVIDUAL. E (1 (AS RECORDED) 2.( 2.9	CONVI RETAINED	PERSION I RET INDIVID UAL 0.8	ACTOR, F AINED ACCUMU- LATIVE 0-8	ACCUMULA- TIVE PERCENT PASSING 99.2 98.1	
DRY MASS	INDIVIDUAL GROSS MASS 152.3 155.2	TARE MASS / SO. 2 / SS. 2	SH, D 264 258.1 NET MASS NOIVIDUAL. E (1 (AS RECORDED)) 2.(	CONVI RETAINED INDIVIDUAL ITOTAL BASISI 2.( 5.0 16.4	PER RET INDIVID UAL 0.8 1.1 4.3	FACTOR, F ICENT AINED ACCUMU- LATIVE 0.8 /.9 6.2	ACCUMULA. TIVE PERCENT PASSING 99.2 98.1 93.8	
DRY MASS	INDIVIDUAL GROSS MASS 152.3 155.2 166.6	PRIOR TO WAS AFTER WASH TARE MASS /50.2 /50.2 /50.2 /55.2 /66.6	SH, D 264 258.1 NET MASS NOIVIDUAL. E IAS RECORDEDI 2.( 2.9 11.4 47.9	.9 CONVI RETAINED INDIVIDUAL ITOTAL BASISI 2.( 5.0 16.4 64.3	ERSION   PER RET INDIVID UAL 0.8 1.1 4.3 18.(	FACTOR, F AINED ACCUMU- LATIVE 0.B 1.9 6.2 24.3	- <u>-</u> ACCUMULA- TIVE PERCENT PASSING 99.2 98.1 93.8 75.7	
DRY MASS	INDIVIDUAL GROSS MASS 152.3 155.2 166.6 214.5	PRIOR TO WAS AFTER WASH TARE MASS /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2	SH, D 264 258.1 NET MASS NDIVIDUAL. E (1 (AS RECORDED)) 2.( 2.9 11.4 47.9 126.4	.9 CONV. RETAINED INDIVIDUAL ITOTAL BASISI 2.( 5.0 16.4 64.3 190.7	ERSION 1 PER RET INDIVID UAL 0.8 1.1 4.3 18.( 47.7	FACTOR, F AINED ACCUMU- LATIVE 0.B 1.9 6.2 24.3 72.0	<u>c</u> D ACCUMULA- TIVE PERCENT PASSING 99.2 98.1 93.8 75.7 28.0	
DRY MASS	INDIVIDUAL GROSS MASS 152.3 155.2 166.6 214.5 340.9	PRIOR TO WAS AFTER WASH TARE MASS /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2	SH, D 264 258.1 NET MASS NDIVIDUAL. E (1 (AS RECORDED) (AS RECORDED) 2.( 2.9 11.4 47.9 126.4 56.7	9 CONV RETAINED 1001/10UAL 1001/10UAL 1001/10UAL 2.( 5.0 16.4 64.3 190.7 247.4	PER RET INDIVID UAL 0.8 1.1 4.3 1.1 4.3 1.8.( 47.7 21.4	FACTOR, F ICENT AINED ACCUMU LATIVE 0.8 /-9 6.2 24.3 72.0 93.4	<u>c</u> D ACCUMULA- TIVE PERCENT PASSING 99.2 98.1 93.8 75.7 28.0 6.6	
DRY MASS	INDIVIDUAL GROSS MASS 152.3 155.2 166.6 2/4.5 340.9 397.6	PRIOR TO WAS AFTER WASH TARE MASS /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2	SH, D 264 258.1 NET MASS NDIVIDUAL. E (1) (AS RECORDED) 2.( 2.9 11.4 47.9 126.4 56.7 10.0	9 CONV RETAINED 71 INDIVIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDUAL 1001VIDU	PER RET INDIVID UAL 0.8 1.1 4.3 1.1 4.3 1.8.( 47.7 21.4	FACTOR, F AINED ACCUMU- LATIVE 0.B 1.9 6.2 24.3 72.0	<u>c</u> D ACCUMULA- TIVE PERCENT PASSING 99.2 98.1 93.8 75.7 28.0	
DRY MASS	INDIVIDUAL GROSS MASS 152.3 155.2 166.6 214.5 340.9 397.6 407.6 409.2	PRIOR TO WAS AFTER WASH TARE MASS /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2 /50.2	SH, D 264 258.1 NET MASS NDIVIDUAL. E (1 (AS RECORDED) (AS RECORDED) 2.( 2.9 11.4 47.9 126.4 56.7	9 CONV RETAINED 1 INDIVIDUAL 1 TOTAL BASISI 2.( 5.0 16.4 64.3 190.7 247.4 257.4 253.0	PER RET INDIVID UAL 0.8 1.1 4.3 1.1 4.3 1.8.( 47.7 21.4	FACTOR, F ICENT AINED ACCUMU LATIVE 0.8 /-9 6.2 24.3 72.0 93.4	<u>c</u> D ACCUMULA- TIVE PERCENT PASSING 99.2 98.1 93.8 75.7 28.0 6.6	
DRY MASS	INDIVIDUAL GROSS MASS 152.3 155.2 166.6 214.5 340.9 397.6 407.6 409.2	PRIOR TO WAS         AFTER WASH         TARE         MASS         /50.2         155.2         166.6         214.5         397.6         407.6         UNITS	SH, D 264 258.1 NET MASS NDIVIDUAL. E (1 (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS RECORDED) (AS	9 CONVI RETAINED INDIVIDUAL ITOTAL BASISI 2.( 5.0 16.4 64.3 190.7 247.4 257.4 253.0 REMARKS:	ERSION RET INDIVID UAL 0.8 1.1 4.3 18.( 47.7 21.4 3.8	FACTOR, F AINED ACCUMU- LATIVE 0.B 1.9 6.2 24.3 72.0 93.4 97.2	<u>c</u> D ACCUMULA- TIVE PERCENT PASSING 99.2 98.1 93.8 75.7 28.0 6.6 2.8	
DRY MASS	INDIVIDUAL GROSS MASS 152.3 155.2 166.6 2/4.5 340.9 397.6 407.6 409.2 NTENT DATA:	PRIOR TO WAS         AFTER WASH         TARE         MASS         /50.2         152.3         155.2         166.6         214.5         345.9         397.6         407.6         UNITS	SH, D 264 258.1 NET MASS NDIVIDUAL. E (1 145 RECORDEDI 2.1 2.9 11.4 47.9 126.4 56.7 10.0 0.6	9 CONV RETAINED 1 INDIVIDUAL 1 TOTAL BASISI 2.( 5.0 16.4 64.3 190.7 247.4 257.4 253.0	ERSION RET INDIVID UAL 0.8 1.1 4.3 18.( 47.7 21.4 3.8	FACTOR, F AINED ACCUMU- LATIVE 0.B 1.9 6.2 24.3 72.0 93.4 97.2	<u>c</u> D ACCUMULA- TIVE PERCENT PASSING 99.2 98.1 93.8 75.7 28.0 6.6 2.8	
DRY MASS	INDIVIDUAL GROSS MASS 152.3 155.2 166.6 214.5 340.9 397.6 407.6 407.6 409.2 NTENT DATA;	PRIOR TO WAS         AFTER WASH         TARE         MASS         / SO. 2         150. 2         155. 2         166.6         214.5         345.9         397.6         407.6         UNITS         2         407.4	SH, D 264 258.1 NET MASS NDIVIDUAL. E (1) (AS RECORDED) 2.( 2.( 2.9) 11.4 47.9 126.4 56.7 10.0 0.6	9 CONVI RETAINED INDIVIDUAL ITOTAL BASISI 2.( 5.0 16.4 64.3 190.7 247.4 257.4 253.0 REMARKS:	ERSION RET INDIVID UAL 0.8 1.1 4.3 18.( 47.7 21.4 3.8	FACTOR, F AINED ACCUMU- LATIVE 0.B 1.9 6.2 24.3 72.0 93.4 97.2	<u>c</u> D ACCUMULA- TIVE PERCENT PASSING 99.2 98.1 93.8 75.7 28.0 6.6 2.8	
DRY MASS SIEVE DESIGNATION 4 8 16 30 50 100 200 Pani MOISTURE COM CAN NO. GROSS WET M	INDIVIDUAL GROSS MASS 152.3 155.2 166.6 214.5 340.9 397.6 407.6 409.2 VTENT DATA:	PRIOR TO WAS         AFTER WASH         TARE         MASS         /50.2         155.2         166.6         214.5         345.9         397.6         407.6         UNITS         2745         407.6         407.6         407.6         407.6	SH, D 264 258.1 NET MASS NDIVIDUAL. E (1) (AS RECORDED) 2.( 2.9 11.4 47.9 126.4 56.7 10.0 0.6 1 .(	9 CONVI RETAINED INDIVIDUAL ITOTAL BASISI 2.( 5.0 16.4 64.3 190.7 247.4 257.4 257.4 253.0 REMARKS: Frat WA	ERSION   PER RET INDIVID UAL 0.8 1.1 4.3 18.( 47.7 21.4 3.8 SH VL	FACTOR, F AINED ACCUMU- LATIVE 0.8 1.9 6.2 24.3 72.0 93.4 97.2 EILHT =	<u>c</u> D ACCUMULA- TIVE PERCENT PASSING 99.2 98.1 93.8 75.7 28.0 6.6 2.8	5 - 150, 2
DRY MASS STANDARD SIEVE DESIGNATION 4 8 16 30 50 100 200 POL MOISTURE COM GROSS WET M GROSS DRY M MOISTURE M	INDIVIDUAL GROSS MASS 152.3 155.2 166.6 214.5 340.9 397.6 407.6 409.2 VTENT DATA:	PRIOR TO WAS         AFTER WASH         TARE         MASS         150.2         155.2         166.6         214.5         345.9         397.6         407.6         UNITS         2         407.4         407.4         407.4         4407.4	SH, D 264 258.1 NET MASS NDIVIDUAL. E (1) IAS RECORDEDIT 2.( 2.9 11.4 47.9 126.4 56.7 10.0 0.6 1 .(	9 CONVI RETAINED INDIVIDUAL ITOTAL BASISI 2.( 5.0 16.4 64.3 190.7 247.4 257.4 253.0 REMARKS:	ERSION   PER RET INDIVID UAL 0.8 1.1 4.3 18.( 47.7 21.4 3.8 SH VL	FACTOR, F AINED ACCUMU- LATIVE 0.8 1.9 6.2 24.3 72.0 93.4 97.2 EILHT =	<u>c</u> D ACCUMULA- TIVE PERCENT PASSING 99.2 98.1 93.8 75.7 28.0 6.6 2.8	5 - 150, 2
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DRY MASS STANDARD SIEVE DESIGNATION 4 8 16 30 50 100 200 POL MOISTURE COM GROSS WET M GROSS DRY M MOISTURE M	INDIVIDUAL GROSS MASS 152.3 155.2 166.6 214.5 340.9 397.6 407.6 407.6 408.2 NTENT DATA MASS MASS ASS	PRIOR TO WAS         AFTER WASH         TARE         MASS         150.2         152.3         155.2         166.6         214.5         340.9         397.6         407.6         UNITS         2         397.6         407.6         UNITS         2         397.6         407.6         UNITS         2         397.6	SH, D $264$ 258.1 NET MASS NDIVIDUAL. E (1) IAS RECORDEDIT 2.( 2.9 11.4 47.9 126.4 56.7 10.0 0.6 0.6 0.6 0.1 0.1 0.1 0.1 0.1 0.1	9 CONVI RETAINED INDIVIDUAL ITOTAL BASISI 2.( 5.0 16.4 64.3 190.7 247.4 257.4 257.4 253.0 REMARKS: Frat WA	ERSION 1 PER RET INDIVID UAL 0.8 1.1 4.3 18.( 47.7 21.4 3.8 SH UI SH UI	FACTOR, F AINED ACCUMU- LATIVE 0.B 1.9 6.2 24.3 72.0 93.4 97.2 EILANT =	- <u>C</u> ACCUMULA. TIVE PERCENT PASSING 99.2 98.1 93.8 75.7 28.0 6.6 2.8 408.3 M Los	5 - 150,2
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PROJECT DES	SCRIPTION:			LANDF				• •	ASTM D422/C
ATERIALS	LABORATORY:	-DI	EHV	ER				<u></u>	
MPLE LOC.	ATION: 7	<u>s</u>		195	to 212				
TYPE OF SAM		<u></u>	20-	TLE	• •			-	<u> </u>
GROSS WET	MASS TOTAL	SAMPLE	467.	6 TARE MASS //	-7.3 PAN NO. 22				
GROSS DRY	MASS TOTAL	SAMPLE	448	9 TARE MASS /	27.3 PAN NO. 22	O NET	WET MASS	TOTAL SAM	PLE
COARSE FR	ACTION: N	ET WET	MASS		MOISTUGE		UHT MASS	TOTAL SAMP	PLE, A 281.
STANDARD		1			MOISTURE, %			Y MASS	
SIEVE DESIGNATIO	GROSS	r	TARE MASS	INDIVIDUAL	S RETAINED	PERCENT RETAINED		ACCUMULA	
				INDIVIDUAL	ACCUMULATIVE	UAL	LATIVE	PERCENT	SPECIFICATION
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3/8	175.9			0.0	0.0	0.0	0.0	100	
		[6	<u>, 1.4</u>	8.5	L 8.5	3.0	3.0	97.0	
FINE FRACTI			TO WA	MOISTURE,	×	NET D	RY MASS, C		NIA
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DRY MASS DRY MASS STANDARD SIEVE DESIGNATION 4 8 16 30 50 100 700 931 MOISTURE CO CAN NO. GROSS WET GROSS DRY MOISTURE CO	INDIVIDUAL GROSS MASS 155.5 155.5 159.0 190.3 319.8 377.0 380.6 377.0 380.6 320.7 INTENT DATA MASS MASS	PRIOR TO WA AFTER WASH TARE MASS /55.3 /55.3 /55.3 /56.3 /59.0 /90.3 /90.3 377.0 377.0 377.0 377.0 377.0 377.0 377.0	MOISTURE, ASH, 0 226 1 225.4 NET MASS NDIVIDUAL. E (AS RECORDEDI 0.2 0.8 2.7 31.3 129.5 5.3 43.7 55.3	* .9 RETAINED (F) INDIVIDUAL ITOTAL BASIS 0.2 I 0 3.7 35.0 I 64.5 22(.7) 225.3 I 225.4 REMARKS: F25T WI NOTES:	PERSION REI INDIVIC UAL 0.1 0.1 0.2 1.2 1.2 1.2 1.2 1.2 1.6	FACTOR, F AINED ACENT AINED ACCUMU- LATIVE 0.( 0.( 0.5 1.6 1.6 72.5 97.7 99.3 1 516HT	- <u>C</u> D ACCUMULA TIVE PERCENT PASSING 99.9 99.9 99.5 98.4 84.6 27.5 2.3 0.7 - 380.1	SPECIFICATIO
DRY MASS DRY MASS STANDARD SIEVE DESIGNATION 4 16 30 50 100 200 931 MOISTURE CO CAN NO. GROSS WET GROSS DRY MOISTURE TARE MASS	INDIVIDUAL GROSS MASS 155.5 155.5 159.0 190.3 319.8 377.0 380.6 377.0 380.6 320.7 INTENT DATA MASS MASS MASS	PRIOR TO WA AFTER WASH TARE MASS /55.3 /55.3 /56.3 /56.3 /59.0 /90.3 377.0 377.0 377.0 377.0 377.0 377.0 377.0 377.0 377.0 137.0 137.0 137.0 137.0 137.0 137.0 137.0 137.0 137.0 137.0 137.0 137.0 137.0 137.0 137.0 137.0 137.0 137.0 137.0 137.0 137.0 137.0 137.0 137.0 137.0 137.0 137.0 137.0 137.0 137.0 137.0 137.0 137.0 137.0 137.0 137.0 137.0 137.0 137.0 137.0 137.0 137.0 137.0 137.0 137.0 137.0 137.0 137.0 137.0 137.0 137.0 137.0 137.0 137.0 137.0 137.0 137.0 137.0 137.0 137.0 137.0 137.0 137.0 137.0 137.0 137.0 137.0 137.0 137.0 137.0 137.0 137.0 137.0 137.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100000000	MOISTURE, ASH, D 226 1 225.4 NET MASS NDIVIDUAL. E (AS RECORDEDI 0.2 0.8 2.7 31.3 129.5 57.2 3.6 0.1 8 (25.9 82.2 43.7	* .9 RETAINED (F) INDIVIDUAL ITOTAL BASIS 0.2 1.0 3.7 35.0 164.5 221.7 225.3 225.4 REMARKS: F25T W	PERSION REI INDIVIC UAL 0.1 0.1 0.1 1.2 13.2 57.7 1.6 1.6	FACTOR, F AINED ACENT AINED ACCUMU- LATIVE 0.( 0.( 0.5 1.6 1.6 72.5 97.7 99.3 1 516HT	- <u>C</u> D ACCUMULA TIVE PERCENT PASSING 99.9 99.9 99.5 98.4 84.6 27.5 2.3 0.7 - 380.1	SPECIFICATIO

