

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

Materials Engineering Division MECHANICAL ANALYSIS

Project DEBRIS QUALITY STUDY

Source Big Dalton Debris Basin

Depth Ranges: 0'-9'

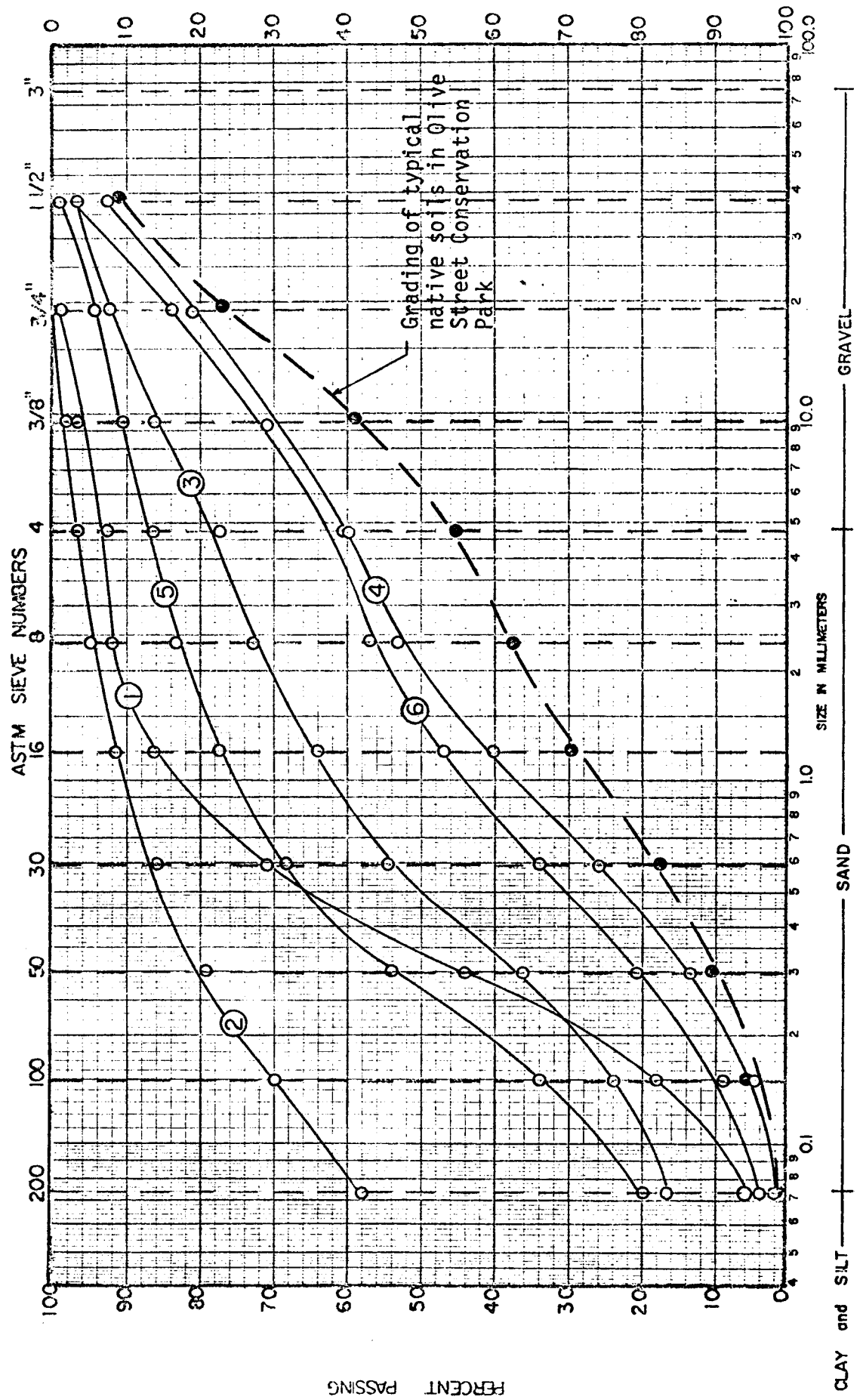
Sampled by FD Date 10/4-5/73

Remarks Composite of Borings

Gradation of Soil Deposits

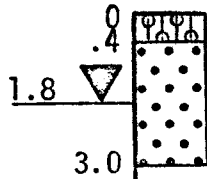
Each Boring Represents 16 2/3% of Reservoir Deposits

FIGURE 14



BORING NO. 1

LOCATION : N 4,169,620
E 4,338,575
ELEVATION 1110
DATE DRILLED 10/4/73

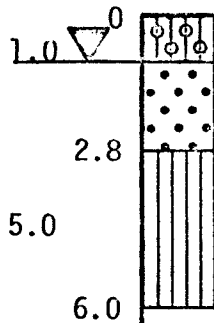


SOIL CLASSIFICATION TYPICAL NAME, (Symbol), Description	% PASSING		% ORGANIC
	NO 4	NO 200	
SILTY SAND (SM), fine, moderately dense, very moist, brown to gray.	100	33.3	0.6
POORLY-GRADED SAND (SP), clean, fine to medium, moderately dense, moist, becoming saturated below 1.8 feet, brown to gray	91.8	2.0	0.3

5.0

Big Dalton
Debris Basin

BORING NO. 2
LOCATION : N 4,169,700
 E 4,338,645
ELEVATION 1112
DATE DRILLED 10/4/73



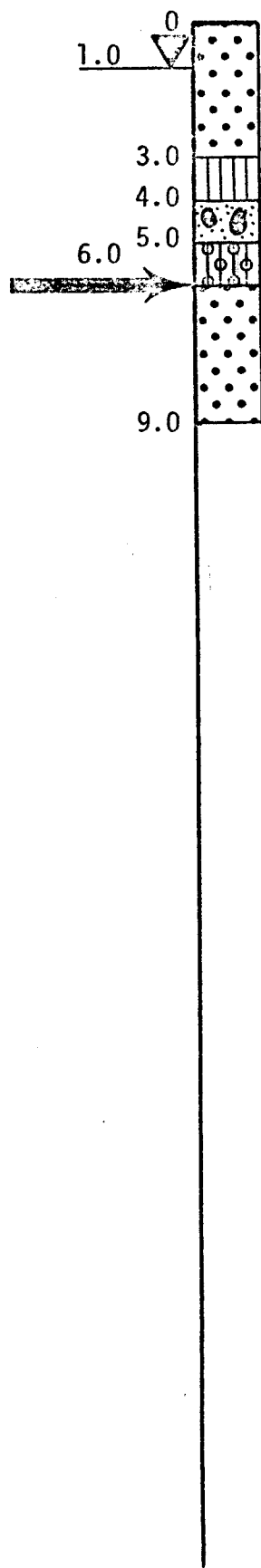
SOIL CLASSIFICATION TYPICAL NAME, (Symbol), Description	% PASSING		% ORGANIC
	NO 4	NO 200	
SILTY SAND (SM), fine, very moist, gray, roots, leaves, twigs etc.	100	38.4	1.0
GRAVELLY POORLY-GRADED SAND (SP), fine to medium, clean, moderately dense, saturated, gray.	88.3	3.2	0.1
SILT (ML), soft, saturated, olive brown, lense of organic matter.	100	95.0	0.5

BORING NO. 3

LOCATION : N 4,169,900
E 4,338,660

ELEVATION 1116

DATE DRILLED 10/4/73



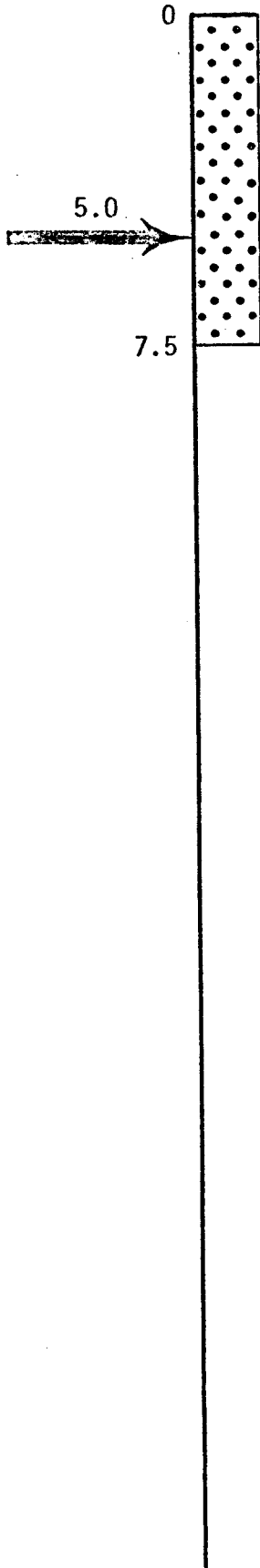
SOIL CLASSIFICATION TYPICAL NAME, (Symbol), Description	% PASSING		% ORGANIC
	NO 4	NO 200	
GRAVELLY POORLY-GRADED SAND (SP), clean, fine to medium, moderately dense, saturated, brown.	81.6	2.5	0.6
SILT (ML), soft, saturated, olive brown, decomposed vegetation.	100	90.2	3.8
SANDY POORLY-GRADED GRAVEL (GP), clean, saturated.	42.0	0.6	<0.1
SILTY SAND (SM), moderately dense, moist, green-gray marbled with dark brown.	96.2	42.0	3.2
GRAVELLY POORLY-GRADED SAND (SP), fine to medium, clean, dense, brown.	71.5	3.1	0.2

BORING NO. 4

LOCATION : N 4,169,920
E 4,339,090

ELEVATION 1151

DATE DRILLED 10/5/73



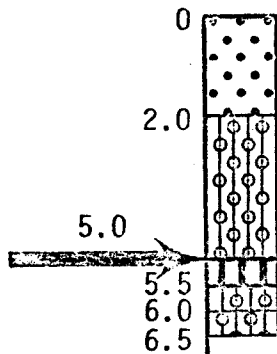
SOIL CLASSIFICATION TYPICAL NAME, (Symbol), Description	% PASSING		% ORGANIC
	NO 4	NO 200	
GRAVELLY POORLY-GRADED SAND (SP), clean, medium, moderately dense to dense, damp, light brown to brown, subangular rocks to 8 inch size (5% - 20%).	57.5	1.8	0.2
At 7.5 feet encountered weathered bedrock.	63.6	3.1	0.1

BORING NO. 5

LOCATION : N 4,170,055
E 4,339,145

ELEVATION 1158

DATE DRILLED 10/5/73



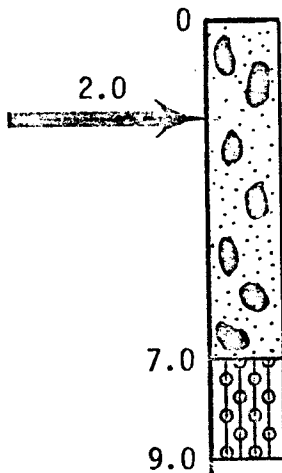
SOIL CLASSIFICATION TYPICAL NAME, (Symbol), Description	% PASSING		% ORGANIC
	NO 4	NO 200	
GRAVELLY POORLY-GRADED SAND (SP), clean, dense, dry.	63.3	3.0	0.1
SILTY SAND (SM), fine, dense, damp to moist, light brown.	100	21.2	1.0
SILT (MH), firm, moist, brown.	100	94.0	3.6
SILTY SAND (SM), medium, moderately dense, moist, dark brown.	77.6	15.0	2.3
GRAVELLY WELL-GRADED SAND (SP-SM), well-graded, slightly silty, dense, moist, brown.	91.6	6.6	0.2

BORING NO. 6

LOCATION : N 4,170,110
E 4,339,435

ELEVATION 1165

DATE DRILLED 10/5/73



SOIL CLASSIFICATION TYPICAL NAME, (Symbol), Description	% PASSING		% ORGANIC
	NO 4	NO 200	
SANDY POORLY-GRADED GRAVEL (GP), clean, fine, dense, damp, cobbles to 10 inch size (10%)	50.1	1.6	0.1
SILTY SAND (SM), fine, dense, damp, brown, numerous cobbles to 10 inch size and boulders to 2 foot size.	97.0	13.5	1.0

At 9 feet encountered hard surface - native soil

TABLE 8

SUMMARY SHEET**BIG DALTON
DEBRIS BASIN**

BORING NO.	BORING DEPTH (ft)	CLASSIFICATION RANGE	COMPOSITE CLASSIFICATION	COMPOSITE O.M. (%)	COMPOSITE PERMEABILITY (ft/day)
1	3	SP to SM	SP	0.2	14
2	6	SP to ML	ML	0.5	< 1
3	9	GP to ML	SM	1.1	6
4	7.5	SP	SP	0.1	127
5	6.5	SP to MH	SM	1.0	2
6	9	GP to SM	SP	0.2	60