Hole No. 79-95

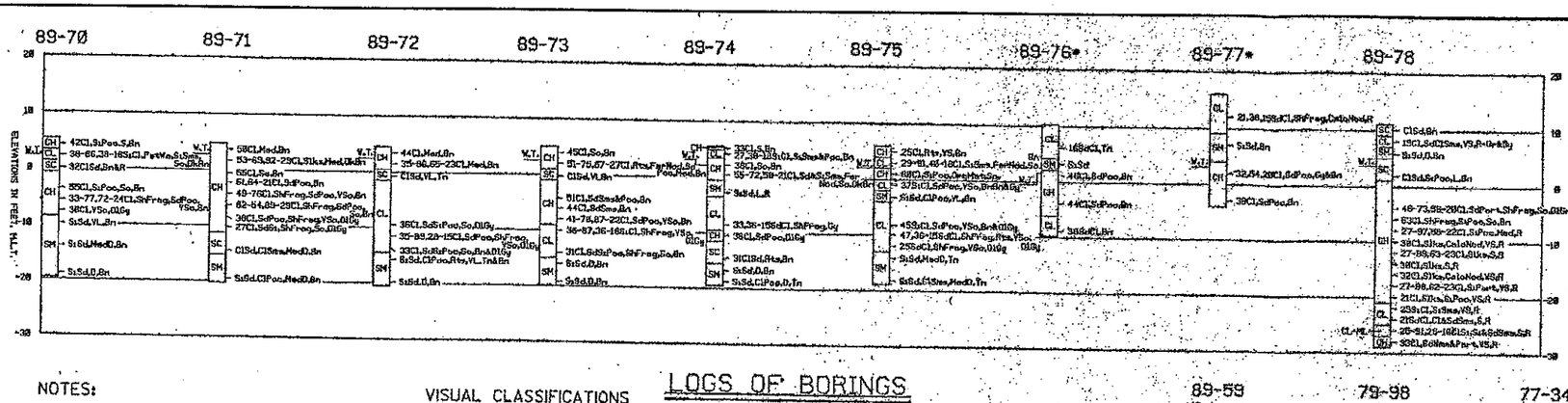
DRILLING LOG | DIVISION: SWD | INSTALLATION: Galv. Dist. | SHEET 1 OF 1 SHEETS

1. PROJECT: Colo. R. Diversion Features
2. LOCATION (Coordinates or Station):
3. DRILLING AGENCY: USCE-C
4. HOLE NO. (As shown on drawing title and file number): 79-95
5. NAME OF DRILLER: Curtis
6. DIRECTION OF HOLE: ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.
7. THICKNESS OF OVERBURDEN: —
8. DEPTH DRILLED INTO ROCK: —
9. TOTAL DEPTH OF HOLE: 30'
10. SIZE AND TYPE OF BIT: 2" Shelby Tube
11. DATUM FOR ELEVATION SHOWN (TBM or MSL):
12. MANUFACTURER'S DESIGNATION OF DRILL: Rollgon Mars H Buggy
13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN: DISTURBED 4 | UNDISTURBED 13
14. TOTAL NUMBER CORE BOXES:
15. ELEVATION GROUND WATER: -2.8'
16. DATE HOLE: STARTED 10-12-79 | COMPLETED 10-12-79
17. ELEVATION TOP OF HOLE:
18. TOTAL CORE RECOVERY FOR BORING: %
19. SIGNATURE OF INSPECTOR: D. F. Emrich

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
			0' To 11' Brown Sand, Fine, Loose	25	1-J	W.T. @ -2.8'
				.50 5'	2-C	
				75	3-J	
				.25 10'	4-C	
				1.50 12.5	5-C	
			11' To 23' Gr. Brn clay V. sandy, soft.	.25 15'	6-C	
				.25 17.5	7-C	
				.25 20'	8-C	
				25 22.5	9-C	
			23' To 29' Brn Sand Loose, Fine	25'	10-J	
				27.5	11-J	
				2.00	12-C	
			29' To 30' Red clay, V/St., with some Brn. Silt.	30'		

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. (TRANSLUCENT)

PROJECT: Colo. R. Div. Features | HOLE NO. 79-95



NOTES:

1. SOILS HAVE BEEN CLASSIFIED IN ACCORDANCE WITH MILITARY STANDARD 619B "UNIFIED SOIL CLASSIFICATION SYSTEM FOR ROADS, AIRFIELDS, EMBANKMENTS AND FOUNDATIONS." CONSISTENCY OF SOILS SUCH AS SOFT, MEDIUM, HARD, LOOSE, DENSE, ETC., ARE RELATIVE TERMS BASED ON ESTIMATED UNDISTURBED SHEAR STRENGTH OF THE MATERIAL AS DETERMINED BY VISUAL CLASSIFICATION POCKET PENETROMETER TESTS AND PENETRATION RESISTANCE DURING SAMPLING.
2. FIGURES TO THE RIGHT OF BORING LOGS ARE WATER CONTENTS IN PERCENT OF THE DRY WEIGHT, DRY DENSITY, LIQUID LIMIT, PLASTIC LIMIT, AND BAR LINEAR SHRINKAGE. (WC-LDDW)(LL-PL)(BL-S.)
3. BORINGS 89-59 THRU 89-62, 89-70 THRU 89-75 89-78, 79-92, 77-343 THRU 77-345, AND 79-95 THRU 79-97, WERE DRILLED USING WET ROTARY DRILLING TECHNIQUES AND UNDISTURBED SAMPLES WERE RECOVERED WITH A 3-INCH DIAMETER THIN WALL SAMPLER WHERE COHESIVE MATERIALS WERE ENCOUNTERED. WHERE CONESIONLESS MATERIALS WERE ENCOUNTERED, DISTURBED SAMPLES WERE TAKEN WITH A SPLIT SPOON SAMPLER DURING PERFORMANCE OF STANDARD PENETRATION TESTING. BORINGS 89-63, 89-66, 89-68, 89-69, 89-76, AND 89-77 WERE DRILLED USING A MECHANICAL AUGER AND BORING 89-67 WAS DRILLED USING WET ROTARY TECHNIQUES TO OBTAIN DISTURBED SAMPLES.
4. WATER TABLES LEVELS SHOWN ON BORING LOGS WERE DETERMINED AFTER DRILLING BORINGS BY MEASURING THE TOP OF FLUID LEVELS IN THE BORINGS. IN BORINGS WHERE WET ROTARY DRILLING TECHNIQUES AND DRILLING MUD WERE USED TO DRILL THE HOLES, THE LEVEL OF DRILLING FLUIDS IN THE BORE HOLES MAY NOT HAVE STABILIZED TO THE LEVEL OF THE ACTUAL WATER TABLE. ADDITIONALLY, WATER TABLES IN THE FIELD ARE LIKELY TO FLUCTUATE DEPENDING ON TIDE AND WEATHER CONDITIONS. THEREFORE, SOME VARIATION SHOULD BE ANTICIPATED BETWEEN WATER TABLES INDICATED AND WATER TABLES ENCOUNTERED IN THE FIELD.

VISUAL CLASSIFICATIONS

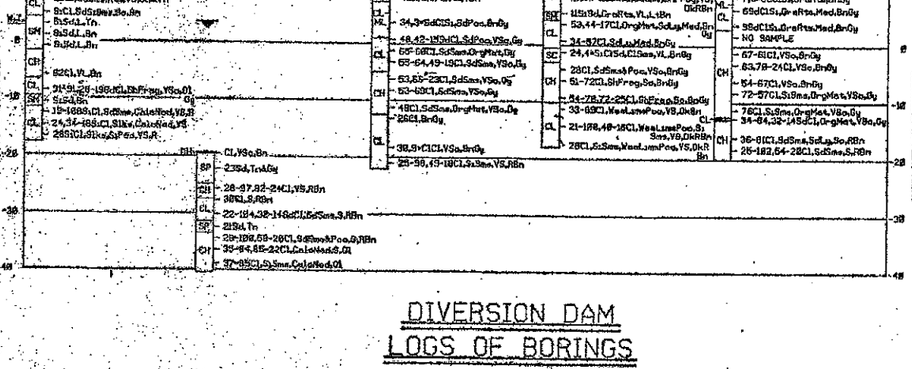
Bn Brown(ish)	Ol Olive
Cl Clay(ey)	Org Organic
Calc Calcareous	Part Partings(d)
D Dense	Pet Petrolum
Dec Decayed	Poc Pocket(s)
Dep Deposit(s)	R Red(ish)
Dk Dark	Rts Root(s)
Fer Ferrous	S Stiff
Frag Fragments(e)	Sd Sand(y)
Gr Gravel(ish)	Sh Shell(y)
Gra Grass	Sl Silty
Gy Gray(ish)	Slks Slickensides
L Loose	Sm(s) Seams
Leav Leaves	So Soft
Lim Limestone	Tn Tan(ish)
Lt Light	V Very
Lg Layer(s)	Wg Waxy
Mat Material(s)	Wd Wood(en)
Med Medium	Weа Weathered
Red Reddish	Y Yellow(ish)

LABORATORY CLASSIFICATION

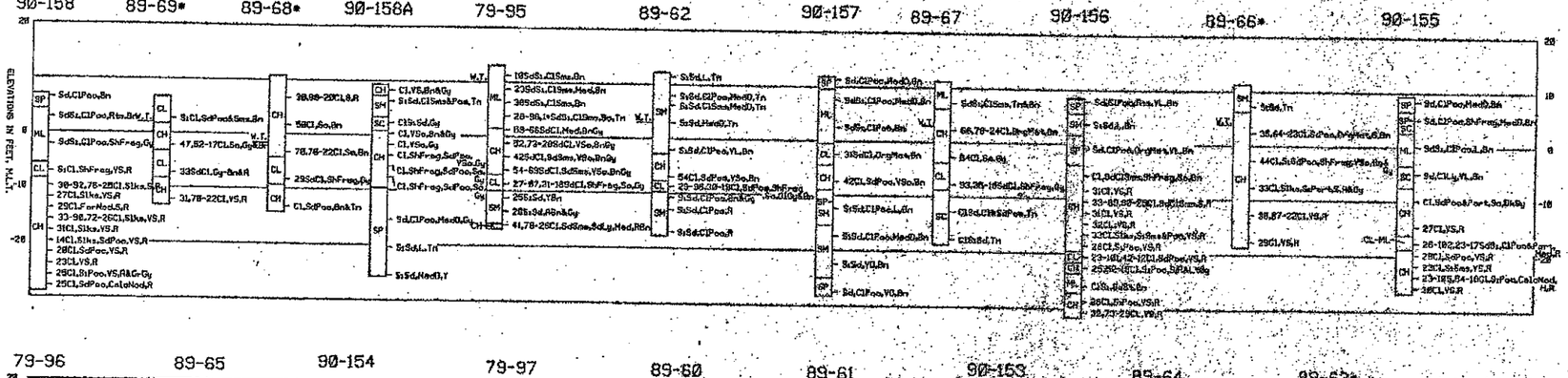
SP POORLY-GRADED SANDS OR GRAVELLY SANDS, LITTLE OR NO FINES.
SM SILTY SANDS, SAND-SILT MIXTURES.
CH INORGANIC CLAYS OF HIGH PLASTICITY, FAT CLAYS.
CL INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, LEAN CLAYS.
ML INORGANIC SILTS AND VERY FINE SANDS, WITH SLIGHT PLASTICITY.
SC CLAYEY SANDS, SAND-SILT MIXTURES.
PT PEAT AND OTHER HIGHLY ORGANIC SOILS.

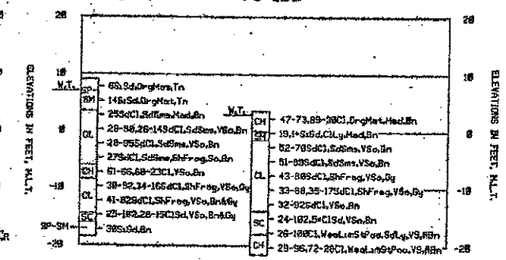
LOGS OF BORINGS
DISPOSAL AREA NO. 3

NOTE : * INDICATES AUGER BORINGS.



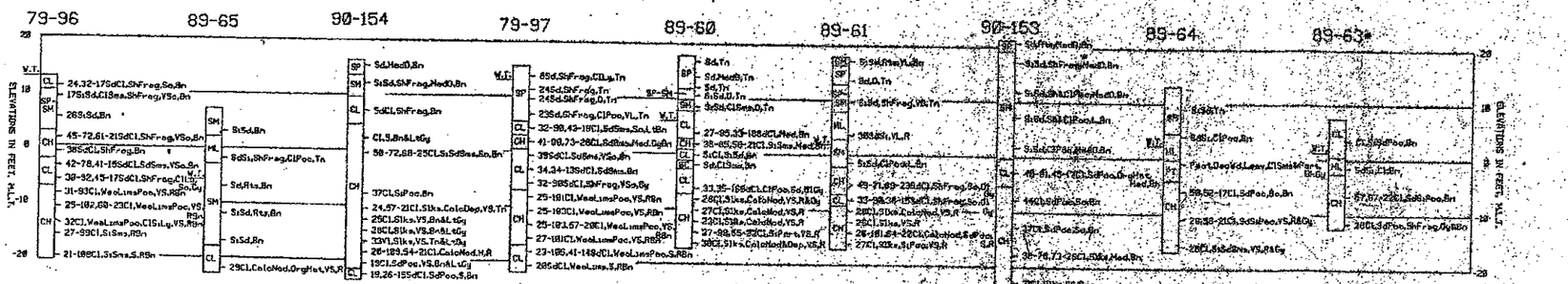
DIVERSION DAM
LOGS OF BORINGS





DIVERSION CHANNEL
LOGS OF BORINGS

NOTE: APPROXIMATE MAXIMUM DEPTH OF PREVIOUS DREDGING IS TO EL. -21.0 M.L.T.



CONNECTING CHANNEL
LOGS OF BORINGS

OFFICE OF THE DISTRICT ENGINEER
U.S. ARMY ENGINEER DISTRICT, GALVESTON
CORPS OF ENGINEERS
GALVESTON, TEXAS

COLORADO RIVER AND TRIBUTARIES, TEXAS
MOUTH OF COLORADO RIVER
DIVERSION DAM AND NAVIGATION
(CONNECTING) CHANNEL
LOGS OF BORINGS

DATE: FEBRUARY 1991
SCALE: AS SHOWN
DRAWING NUMBER: F-1

Prepared under the direction of
Brink P. Miller, Col. C.E.
Commanding

INVITATION NO.
DACW64-
03-B-00

US Army of Engineers Galveston District

Drawn by: X | Rev. | Date:
Designed by: X | Scale: AS SHOWN
Checked by: X | Approved/Recommended:
Submitted by: | DAVID A. CAMPBELL, P.E.
MOHAMED M. HUSSEIN, P.E.

U.S. ARMY ENGINEER DISTRICT, GALVESTON
CORPS OF ENGINEERS
GALVESTON, TEXAS

PREPARED UNDER THE DIRECTION OF

PROJECT INFORMATION 4 LINES PROVIDED

SHEET TITLE

Drawing
X-00
Sheet of
File No.

...\Colo\Mouth of Colorado\F.dgn 05/20/2003 03:13:21 PM