



# KASETSART UNIVERSITY

## DEPARTMENT OF CIVIL ENGINEERING, GEOTECHNICAL ENGINEERING LABORATORY PERMEABILITY TEST (ASTM D 2434)

PROJECT LAMPAO DAM OWNER \_\_\_\_\_ BORING NO. DH-8  
 SOIL DISCRPTION BROWNISH RED CLAYEY SILT LOCATION KALASIN SAMPLE DEPTH 9.45-9.95 m.  
 TESTED BY P.LEUNPHET DATE 15/6/2547  
K.SORNSOONGNOEN

SAMPLE DATA : Flexible Wall Permeability

SAMPLE DIAMETER	<u>3.784</u> cm.	WEIGHT OF MOLD + SOIL	<u>657.35</u> gm.
SAMPLE HEIGHT	<u>7.602</u> cm.	WEIGHT OF MOLD	<u>477.58</u> gm.
SAMEPLE AREA	<u>11.240</u> cm. <sup>2</sup>	WEIGHT OF SOIL	<u>179.77</u> gm.
SAMPLE VOLUME	<u>85.448</u> cm. <sup>3</sup>	DENSITY OF SOIL	<u>2.10</u> gm/cm. <sup>3</sup>
TYPE OF SAMPLE	<u>UNDISTURBED</u>	TESTING HEAD	<u>1791</u> cm.

CONSTANT HEAD PERMEABILITY TEST :

TRIAL NO.	TIME (sec)	Q (cc)	T (C°)	TRIAL NO.	TIME (sec)	Q (cc)	T (C°)
1	60.51	4.15	25	6	60.51	3.78	25
2	60.38	3.7	25	7	60.34	3.39	25
3	60.38	3.79	25	8			
4	60.5	3.47	25	9			
5	60.46	3.58	25	10			
Average Values					60.44	3.69	

SOIL PERMEABILITY k = 2.308E-05 cm./sec.

VARIABLE HEAD PERMEABILITY TEST :

AREA OF STANDPIPE \_\_\_\_\_ cm.<sup>2</sup>

TRIAL NO.	h <sub>1</sub> (sec)	h <sub>1</sub> (sec)	TIME (sec)	TRIAL NO.	h <sub>1</sub> (sec)	h <sub>1</sub> (sec)	TIME (sec)
1				6			
2				7			
3				8			
4				9			
5				10			
Average Values							

SOIL PERMEABILITY k = \_\_\_\_\_ cm./sec.

- Remarks:
- 1) Certification applies to test samples only.
  - 2) Information under "For", "Project", are supplied by client. These are not certified.
  - 3) This certificate is invalid without appropriate signature and seal.