

**WATER YEAR : 2011****KHONG RIVER BASIN****Lam Nam Phung at Ban Tong Khop , Sakon Nakhon (Kh.90)**

Lat 17 - 04 - 05 N Long 104 - 15 - 32 E

**Location : on right bank at the bridge on highway.**

|                                      |                            |                              |                              |
|--------------------------------------|----------------------------|------------------------------|------------------------------|
|                                      | <b>Ban</b> Tong Khop       | <b>Amphoe</b> Khok Si Suphan | <b>Changwat</b> Sakon Nakhon |
| <b>Drainage Area</b>                 | 861 sq.km.                 |                              |                              |
| <b>Method of sampling</b>            | Depth Integrating          |                              |                              |
| <b>Instrument Used</b>               | US.D-49                    |                              |                              |
| <b>Period of Available Records</b>   | 1998-Cont'd                |                              |                              |
| <b>Actual Measurement</b>            | 1998-Cont'd                |                              |                              |
| <b>Using Rating Curve Water Year</b> | 2011                       |                              |                              |
| <b>Number of observation</b>         | 20                         |                              |                              |
| <b>R-Square</b>                      | 0.8616                     |                              |                              |
| <b>Remarks</b>                       | Continued Sediment Station |                              |                              |

$$QS = 3.6181 QW^{1.24490}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012**

| Date         | Apr     | May     | Jun     | Jul     | Aug      | Sep      | Oct     | Nov     | Dec    | Jan     | Feb     | Mar     | Annual   |            |
|--------------|---------|---------|---------|---------|----------|----------|---------|---------|--------|---------|---------|---------|----------|------------|
| 1            | 29.50   | 28.50   | 50.00   | 245.50  | 1137.70  | 320.70   | 170.10  | 82.80   | 33.70  | 40.10   | 41.20   | 39.00   |          |            |
| 2            | 29.50   | 29.50   | 51.20   | 1301.20 | 1735.30  | 491.40   | 298.60  | 74.90   | 26.50  | 40.10   | 40.10   | 40.10   |          |            |
| 3            | 30.60   | 40.10   | 76.20   | 400.80  | 1031.40  | 626.30   | 1093.20 | 65.80   | 25.50  | 40.10   | 40.10   | 37.90   |          |            |
| 4            | 30.60   | 60.80   | 107.40  | 214.30  | 739.40   | 790.00   | 671.80  | 67.10   | 43.30  | 40.10   | 41.20   | 39.00   |          |            |
| 5            | 30.60   | 81.40   | 95.00   | 142.90  | 409.00   | 900.60   | 371.00  | 67.10   | 43.30  | 40.10   | 40.10   | 37.90   |          |            |
| 6            | 35.80   | 88.20   | 124.70  | 110.30  | 287.10   | 721.50   | 275.60  | 65.80   | 34.70  | 39.00   | 40.10   | 37.90   |          |            |
| 7            | 35.80   | 59.50   | 153.00  | 95.00   | 400.80   | 488.30   | 228.90  | 65.80   | 30.60  | 41.20   | 39.00   | 37.90   |          |            |
| 8            | 35.80   | 96.30   | 101.90  | 84.10   | 572.60   | 497.50   | 194.60  | 64.50   | 28.50  | 43.30   | 40.10   | 37.90   |          |            |
| 9            | 36.80   | 63.30   | 99.10   | 81.40   | 357.60   | 566.30   | 175.30  | 62.00   | 28.50  | 42.20   | 41.20   | 37.90   |          |            |
| 10           | 39.00   | 57.00   | 110.30  | 81.40   | 269.90   | 509.90   | 171.80  | 60.80   | 26.50  | 40.10   | 41.20   | 39.00   |          |            |
| 11           | 41.20   | 55.80   | 86.80   | 80.10   | 296.70   | 352.30   | 151.30  | 58.30   | 23.50  | 40.10   | 40.10   | 37.90   |          |            |
| 12           | 46.70   | 55.80   | 73.50   | 73.50   | 283.20   | 357.60   | 139.50  | 57.00   | 23.50  | 39.00   | 41.20   | 36.80   |          |            |
| 13           | 46.70   | 55.80   | 67.10   | 76.20   | 194.60   | 384.50   | 124.70  | 57.00   | 29.50  | 40.10   | 41.20   | 36.80   |          |            |
| 14           | 46.70   | 62.00   | 68.40   | 84.10   | 247.40   | 365.60   | 664.70  | 53.50   | 27.50  | 40.10   | 40.10   | 37.90   |          |            |
| 15           | 46.70   | 236.30  | 65.80   | 114.50  | 657.70   | 339.00   | 949.40  | 47.80   | 28.50  | 41.20   | 40.10   | 39.00   |          |            |
| 16           | 46.70   | 210.70  | 92.20   | 331.10  | 790.00   | 273.70   | 428.30  | 32.60   | 28.50  | 42.20   | 41.20   | 39.00   |          |            |
| 17           | 46.70   | 207.10  | 234.40  | 283.20  | 661.20   | 277.50   | 298.60  | 30.60   | 31.60  | 42.20   | 41.20   | 39.00   |          |            |
| 18           | 46.70   | 175.30  | 121.70  | 170.10  | 661.20   | 279.40   | 227.10  | 29.50   | 30.60  | 42.20   | 40.10   | 39.00   |          |            |
| 19           | 46.70   | 173.50  | 108.80  | 117.40  | 1247.00  | 328.50   | 173.50  | 28.50   | 30.60  | 42.20   | 40.10   | 40.10   |          |            |
| 20           | 46.70   | 163.20  | 139.50  | 107.40  | 2898.20  | 227.10   | 141.20  | 28.50   | 29.50  | 43.30   | 41.20   | 40.10   |          |            |
| 21           | 46.70   | 117.40  | 194.60  | 171.80  | 1996.90  | 210.70   | 126.40  | 23.50   | 28.50  | 44.40   | 40.10   | 39.00   |          |            |
| 22           | 47.80   | 104.60  | 151.30  | 241.80  | 908.10   | 287.10   | 118.80  | 18.80   | 28.50  | 48.90   | 39.00   | 40.10   |          |            |
| 23           | 50.00   | 77.50   | 103.20  | 171.80  | 503.70   | 247.40   | 108.80  | 11.60   | 28.50  | 45.60   | 39.00   | 41.20   |          |            |
| 24           | 50.00   | 60.80   | 84.10   | 194.60  | 428.30   | 216.10   | 106.00  | 8.30    | 29.50  | 44.40   | 37.90   | 41.20   |          |            |
| 25           | 50.00   | 35.80   | 99.10   | 194.60  | 491.40   | 198.20   | 95.00   | 8.30    | 27.50  | 43.30   | 39.00   | 40.10   |          |            |
| 26           | 50.00   | 20.60   | 96.30   | 241.80  | 298.60   | 177.00   | 92.20   | 7.50    | 26.50  | 40.10   | 39.00   | 40.10   |          |            |
| 27           | 50.00   | 18.80   | 82.80   | 166.60  | 266.10   | 171.80   | 85.50   | 8.30    | 32.60  | 40.10   | 40.10   | 40.10   |          |            |
| 28           | 50.00   | 18.80   | 72.20   | 124.70  | 312.80   | 177.00   | 84.10   | 30.60   | 41.20  | 41.20   | 40.10   | 40.10   |          |            |
| 29           | 57.00   | 18.80   | 68.40   | 113.10  | 264.20   | 182.30   | 84.10   | 46.70   | 41.20  | 41.20   | 40.10   | 40.10   |          |            |
| 30           | 25.50   | 12.50   | 69.70   | 201.70  | 310.20   | 178.80   | 84.10   | 47.80   | 41.20  | 42.20   |         | 40.10   |          |            |
| 31           |         | 3.20    |         | 1142.10 | 283.20   |          | 82.80   |         | 41.20  | 42.20   |         | 40.10   |          |            |
| <b>Total</b> | 1272.50 | 2488.90 | 3048.70 | 7159.10 | 20941.50 | 11144.10 | 8017.00 | 1311.30 | 970.80 | 1292.50 | 1165.10 | 1212.30 | 60023.80 | <b>Ton</b> |
| <b>Mean</b>  | 42.40   | 80.30   | 101.60  | 230.90  | 675.50   | 371.50   | 258.60  | 43.70   | 31.30  | 41.70   | 40.20   | 39.10   |          |            |
| <b>Max</b>   | 57.00   | 236.30  | 234.40  | 1301.20 | 2898.20  | 900.60   | 1093.20 | 82.80   | 43.30  | 48.90   | 41.20   | 41.20   | 2898.20  |            |
| <b>Min</b>   | 25.50   | 3.20    | 50.00   | 73.50   | 194.60   | 171.80   | 82.80   | 7.50    | 23.50  | 39.00   | 37.90   | 36.80   | 3.20     |            |