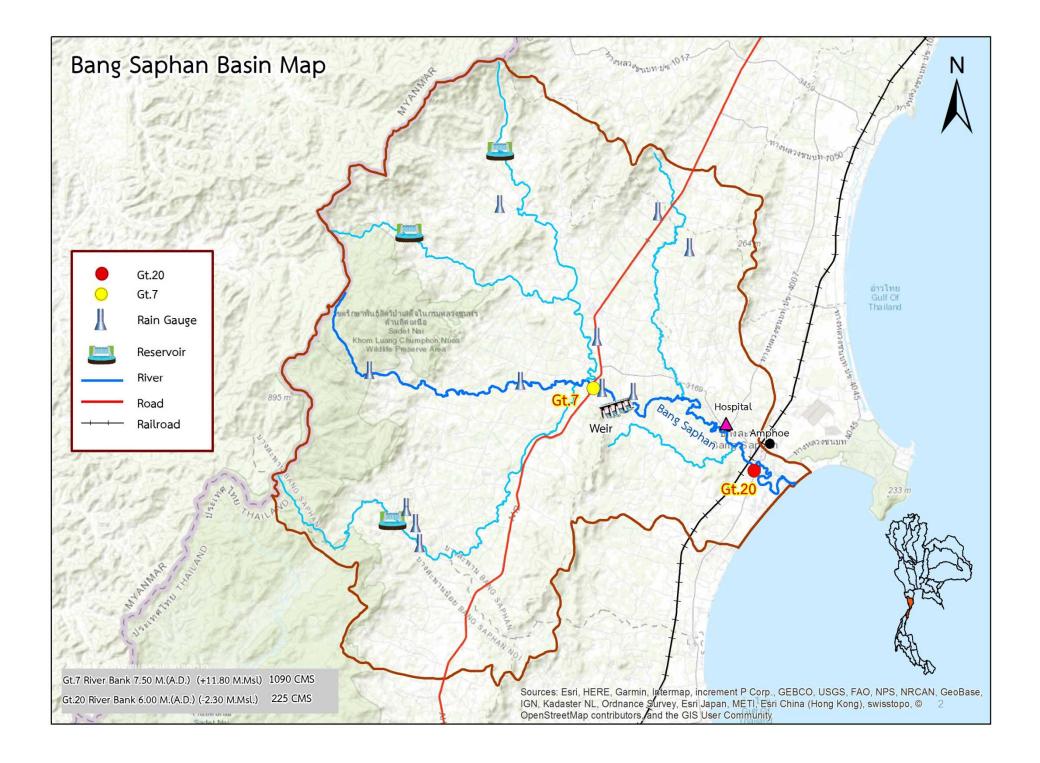
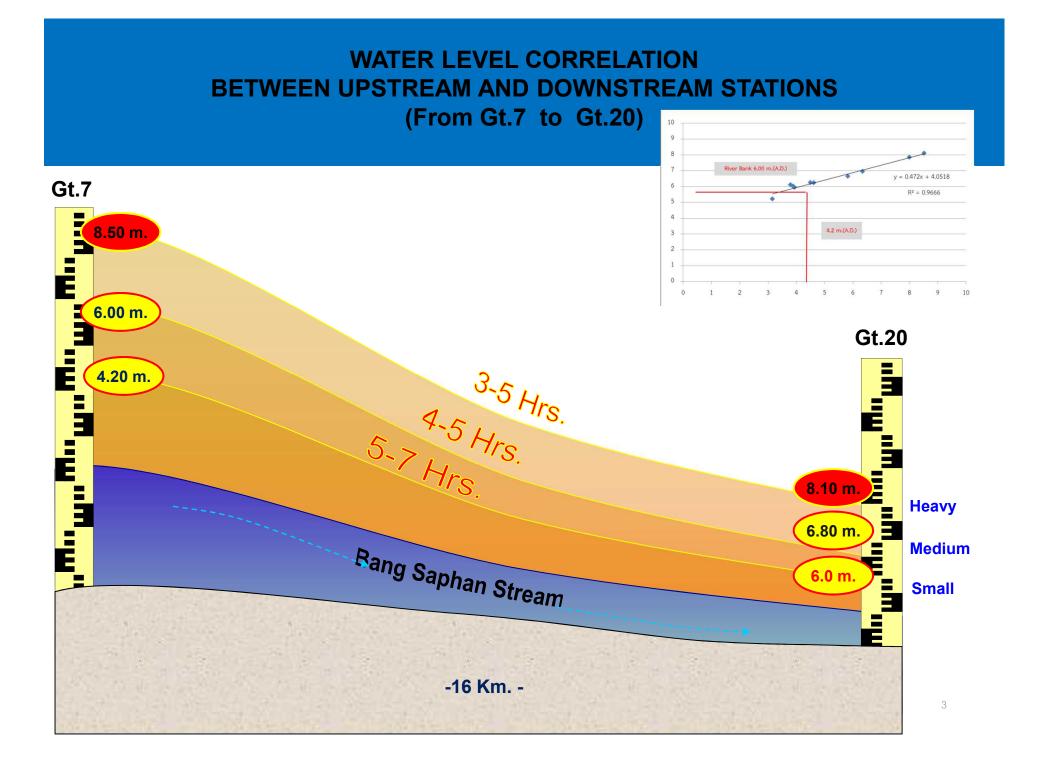
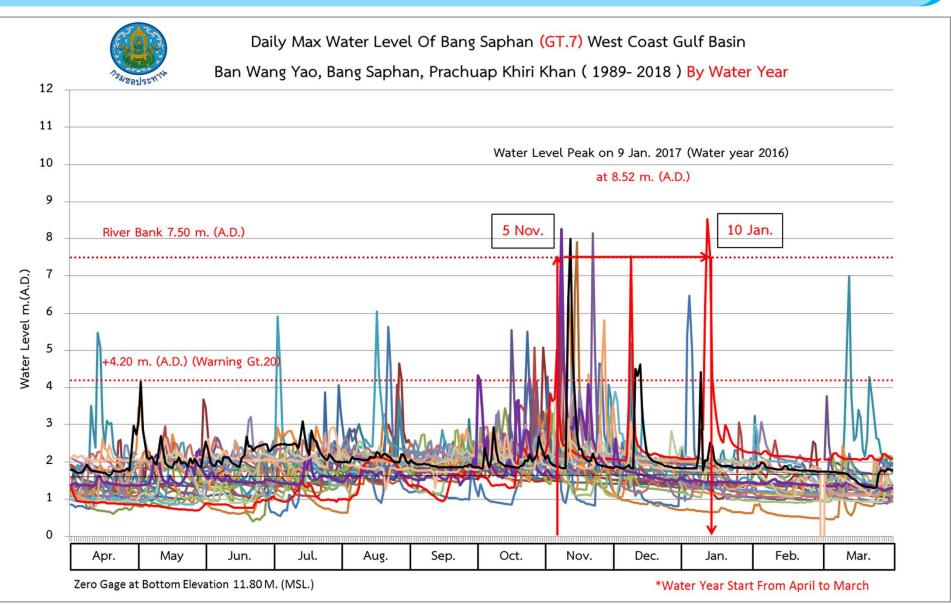
Reducing Flood Damage via Met/Hydro Information in Thailand: Case of Bang Saphan Basin

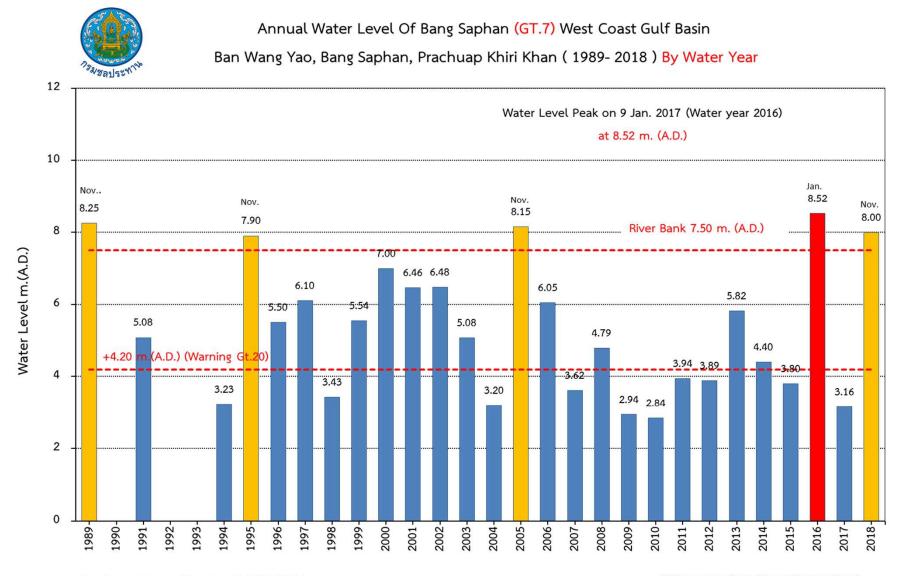
Adisorn Champathong Royal Irrigation Department, Thailand

WORLD BOSAI FORUM, 11 Nov. 2019







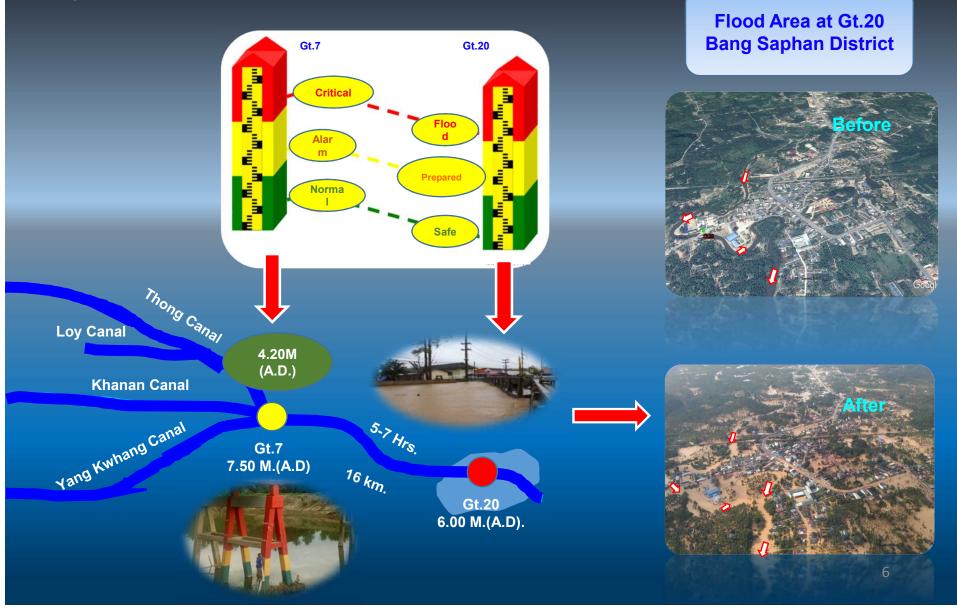


Zero Gage at Bottom Elevation 11.80 M. (MSL.)

\*Water Year Start From April to March 5

# Effect from floodwater to the city

- Stage correlation at upper stream (Gt.7)



# Example of Flood Map in the City (near Gt.20)

Flooding at 9 Jan 2017 At Gt.7 Station WL Peak 8.50 m.(A.D.) River Bank 7.50 m.(A.D.) At Gt.20 Station WL Peak 8.10 m.(A.D.) River Bank 6.00 m.(A.D.)

> 2.00 m.

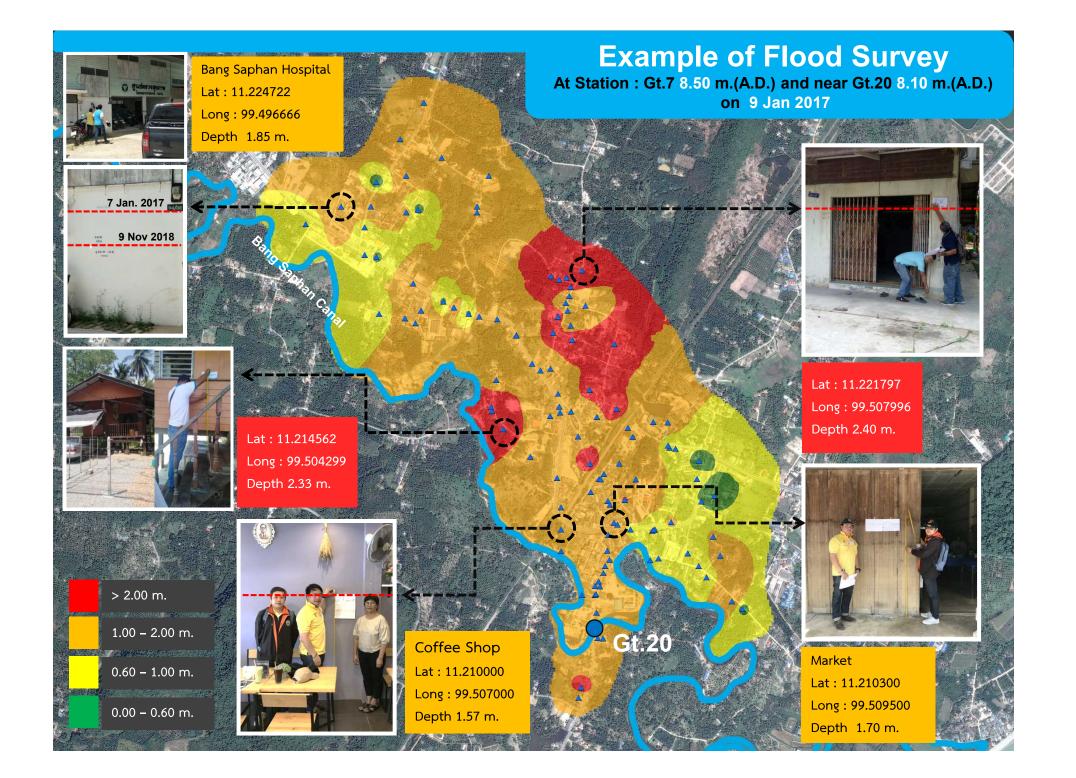
1.00 – 2.00 m.

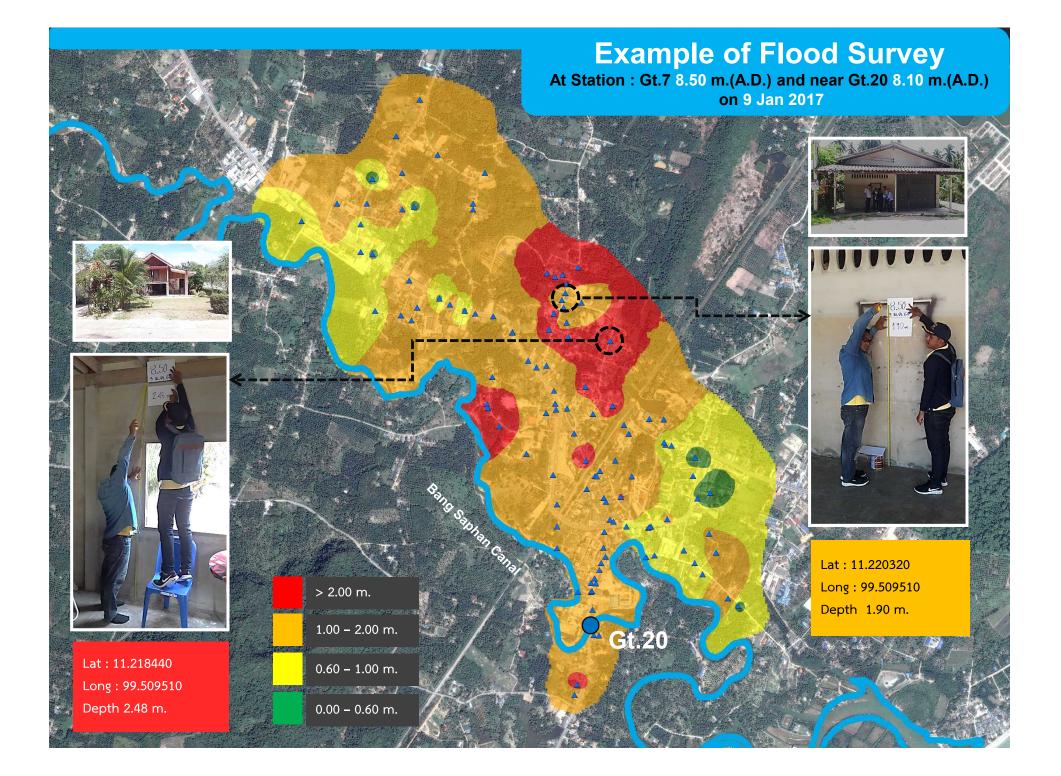
E CAR Hart

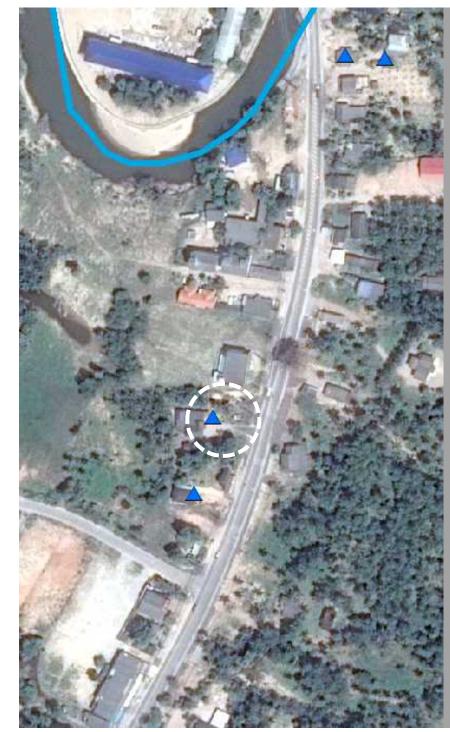
Saphan

0.60 – 1.00 m.

0.00 – 0.60 m.









Name Address Call . Contact Lat 11.202806 Long 99.507944 Data Information

9 Nov 2018







## **BEFORE VS AFTER FLOOD EVENT (NOV.2018)**



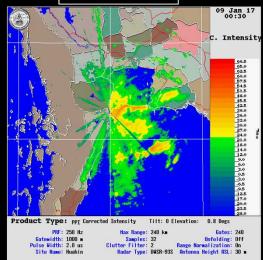


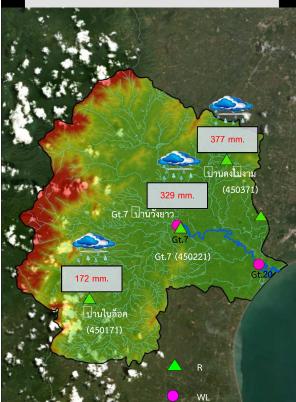






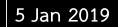
#### 9 Jan 2017

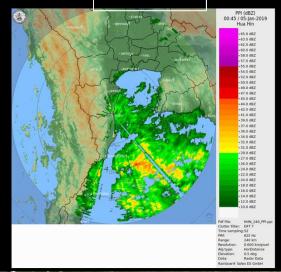


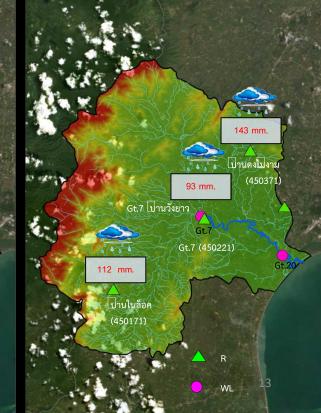


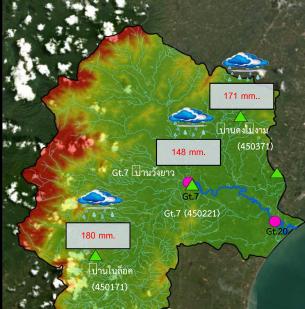
#### 9 Nov 2018

PPI (db2) 00-35 / (05-NOV-2012) 00-35 / (05-



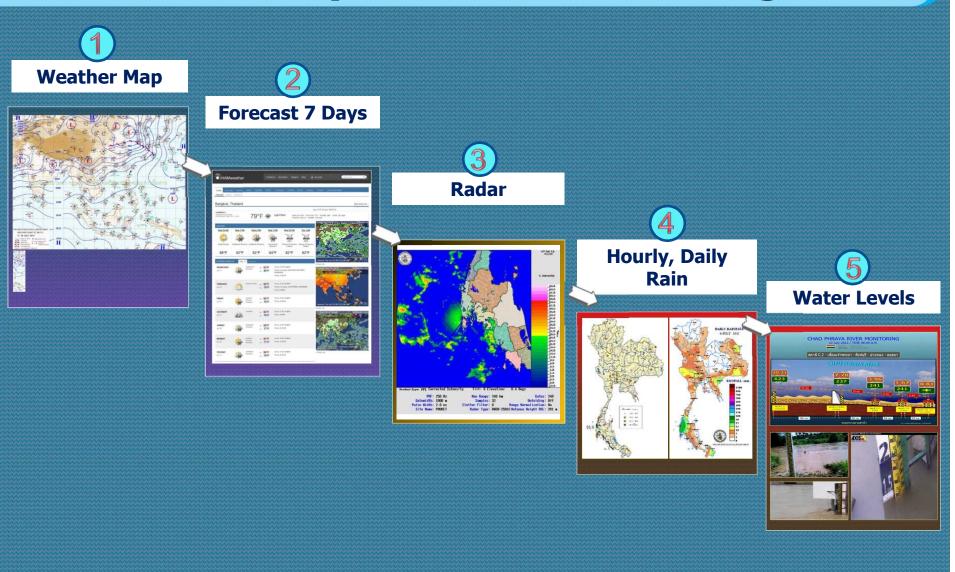






WL

# **Meteo-Hydro Data Monitoring**



# **Communication with community**

### **Tools**

- Hourly Water Level at critical stations via website
- Information board near Community
- LINE (set by Local community)
- FACEBOOK PAGE (set by Local community)



	วันที่ 9 พฤศจิกายน 2561									
	КуЗ		0	it.9	Gt10		Gt.7		Gt.20	
	บ้านทุ่งแสก กุยบุรี ประจวบศรีรับธ์		บ้านกลาง ทับสะแก ประจวบศิริชันธ์		บ้านหนองหญ้าปล้อง บางสะพาน ประจวบศีรีชันธ์		บ้านวังอาว บางสะทาน ประจวบศิริชันธ์		สะพานรถยนต์ ร.ร.อนุบาลบ บางสะพาน ประจวบศีรีจันธ์	
			ระดับคลึ่ง 4.00 ม. ZG+6.900 ม.(รหก.)	ปริมาณ 75.00 อบ.ม./วินาที	ระดับคลิ่ง 3.50 ม. ZG+25.400 ม.(รพก.)	ปรีมาณ 210.00 ลบ.ม./วินาที	ระศับคลิ่ง 7.50 ม. ZG+11.800 ม.(รทก.)	บริมาณ 1090.00 ถบ.ม./วินาที		
1.00		1	0.74	2.08	0.88	46.60	5,73	390.80	6.59	299.0
2.00			0.74	2.08	0.61	35.40	5.30	325.00	6.62	302.0
3.00			0.74	2.08	0.40	28.00	4.74	248.20	6.66	306.0
4.00			0.74	2.08	0.25	23.50	4.25	189.50	6.69	309.0
5.00			0.82	2.70	0.23	22.90	3.84	149.60	6.68	308.0
6.00	1.10	3.50	0.87	3.20	0.27	24.10	3.55	123.50	6.62	302.0
7.00			0.92	3.74	0.38	27.40	3,42	111.80	6.54	294.0
8.00			1.09	5.78	0.57	33.95	3.49	118.10	6.43	283.0
9.00			1.47	11.59	0.97	50.65	3.81	146.90	6.26	266.0
10.00	1.25	7.75	2.01	22.42	1.48	78.80	4,26	190.60	6.21	261.0
11.00			2.53	35.24	1.88	102.80	4.79	254.70	6.10	250.0
12.00			2.99	48.79	2.31	129.15	5.50	355.00	6.20	260.0
13.00			3.41	62.23	2.15	119.00	6.25	487.00	6.17	257.0
14.00			3.92	72.68	1.84	100.40	6.93	646.50	6.27	267.0
15.00			4,40	87.00	1.72	93.20	7.16	705.60	6.28	268.0
16.00			4.82	99,60	2.14	118.40	7.26	732.20	6.35	275.0
17.00			5.22	111.60	2.43	136.95	7.92	926.00	6.52	292.0
18.00			5.30	114.00	2.26	125.90	7.70	860.00	6.68	308.0
19.00			5.28	113.40	1.99	109.40	7,41	773.00	7.03	343.0
20.00			5.20	111.00	1.78	96.80	7.12	695.20	7.13	353.0
21.00			5.08	107.40	1.64	88.40	6.77	606.80	7.11	351.0
22.00			4.95	103.50	1.36	71.60	6.14	464.00	7.00	340.0
23.00			4.80	99.00	1.15	59.50	5.67	381.20	6.94	334.0
24.00			4.65	94.50	0.98	51.10	5.20	310.00	6.88	328.0

**Challenge:** Structural measure, Reinforce Existing Structure ~ Acceptance from People for Drainage System Improvement ~



Example: Dredging Bang Saphan Canal, Thailand

## **Challenge:** Structural measure, Reinforce Existing Structure ~ Acceptance from People for Drainage System Improvement ~





http://thainews.prd.go.th/website\_th/news/news\_detail/TNECO6011090010021





