

13th ICUD 2014

13th IAHR/IWA International Conference on Urban Drainage

Urban Drainage in the Context of Integrated Urban Water Management : A Bridge Between Developed and Developing Countries

7th – 12th September 2014

Borneo Convention Centre Kuching (BCCCK), Sarawak, Malaysian Borneo

Organized by



A STUDY ON EFFECTIVENESS AND PERFORMANCE OF GROSS POLLUTANT TRAPS FOR STORMWATER QUALITY CONTROL FOR RIVER OF LIFE (ROL) PROJECT

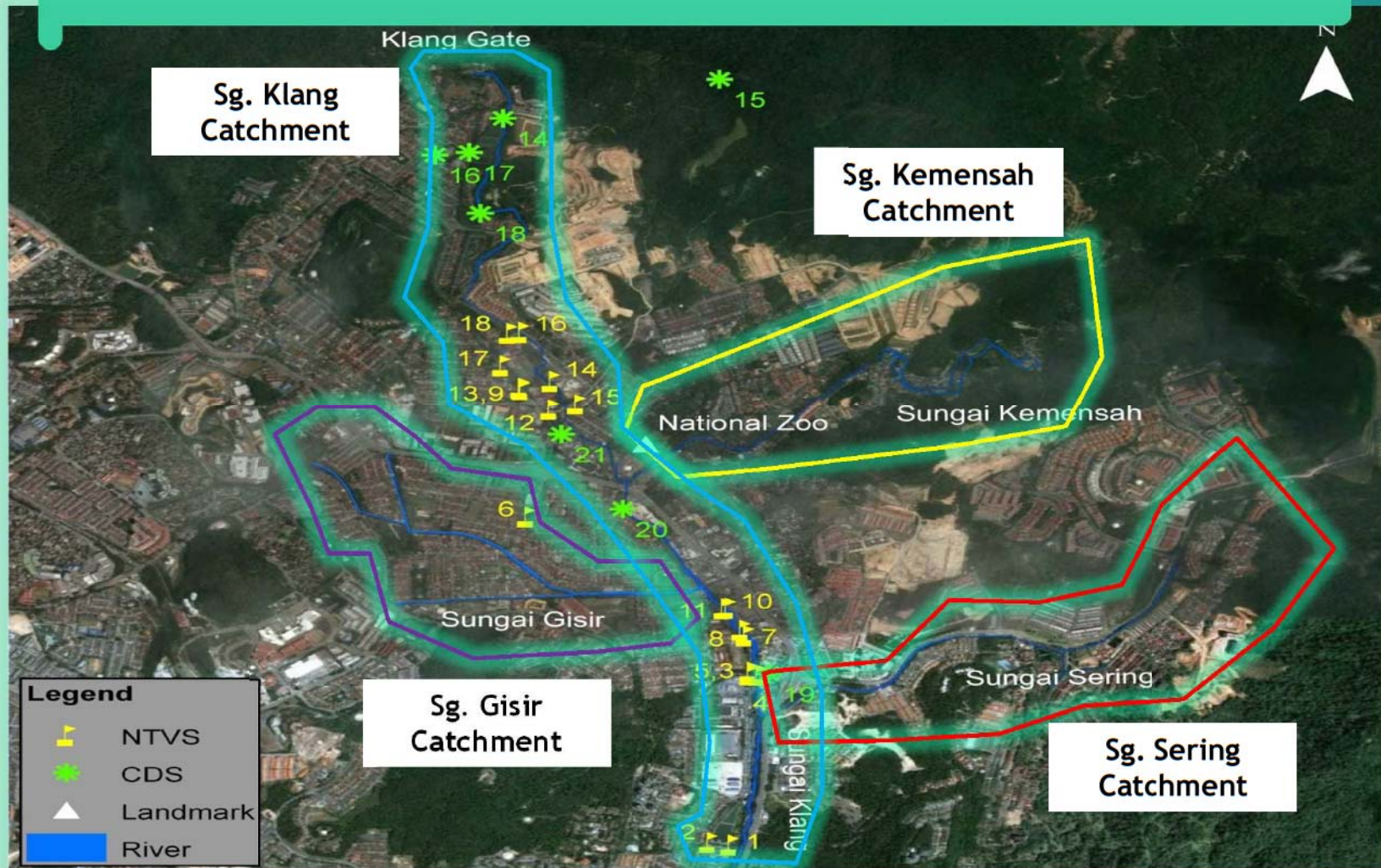
LARIYAH MOHD SIDEK, HIDAYAH BASRI, NUR FARAZUIEN MD SAID, WESENTERA MOHD JAYOTHISA, AHMAD FAUZAN MOHD. SABRI, MD NASIR MD NOH, MOHAMED ROSELI ZAINAL ABIDIN



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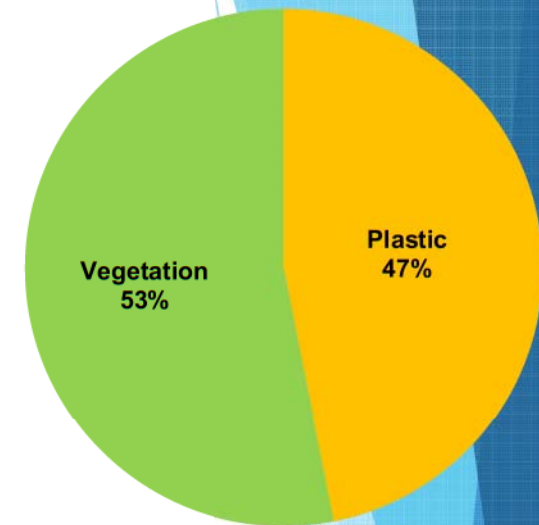
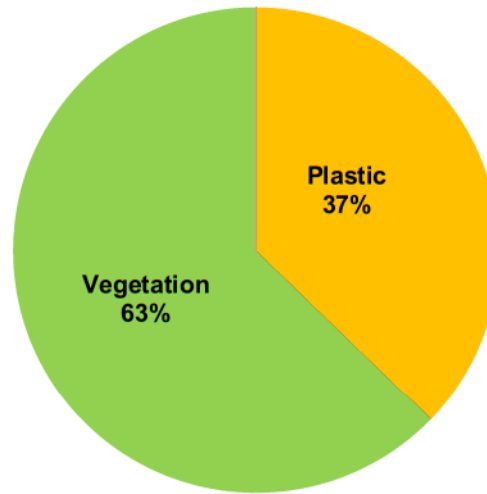
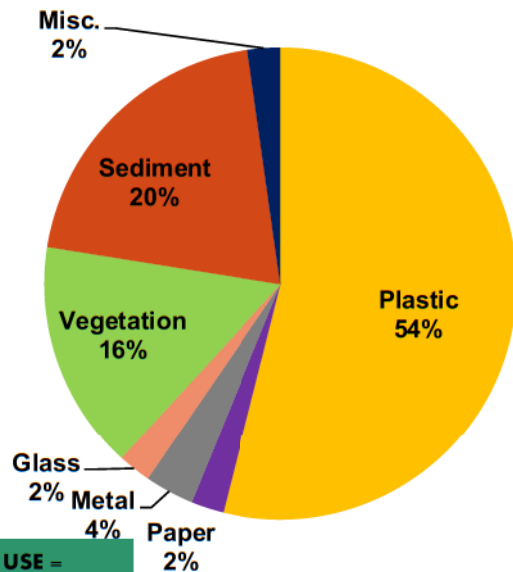


PERCENTAGE REMOVAL

PARAMETER	% REMOVAL											
	C/ALL			DD			CDS			NTVS		
	1st	2nd	3rd	1st	2nd	3rd	1st	2nd	3rd	1st	2nd	3rd
pH	-	-	17.4	-	1.4	1.4	-	-	-	-	-	1.9
Biochemical Oxygen Demand (total)	-	-	70.6	5.44	-	-	54.95	34.7	88.5	46.24	-	66.7
Chemical Oxygen Demand (Total)	-	-	21.2	-	-	16.7	67.08	61.1	93.7	46.52	6	45.9
Total Suspended Solids	-	-	87.3	-	4.2	5.2	19.72	78.5	96.8	16.28	29.9	66
Ammonia as N	-	5.9	21.9	-	18.8	33.3	-	-	74.7	-	-	-

Gross Pollutants Composition & Pollutant Removal Efficiency for CDS F0908 (G15)

1st cleaning- (17/11/12) 2nd cleaning - (17/12/12) 3rd cleaning - (17/01/13)



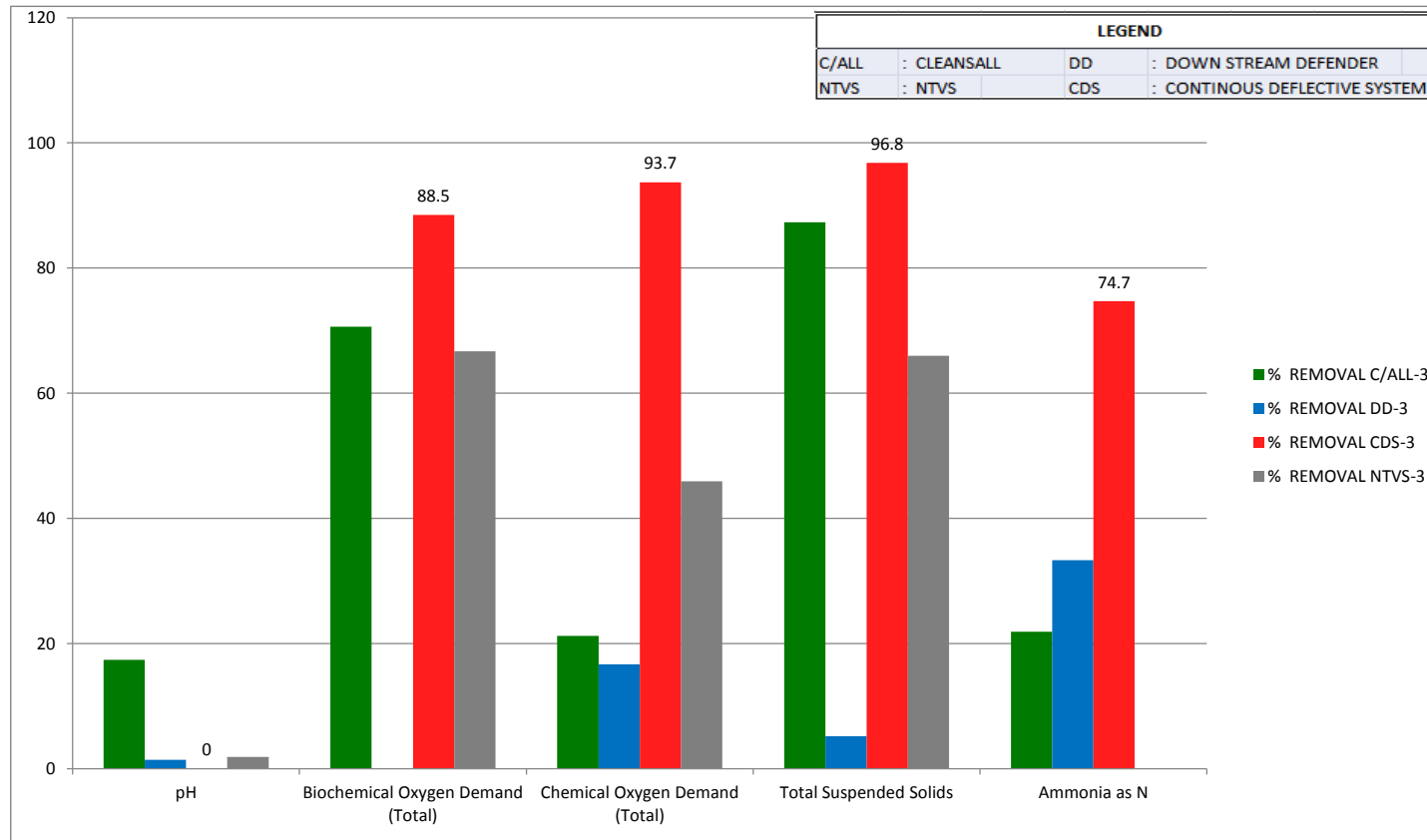
PARAMETER	Pollutant Removal		
	CDS		
	1st	2nd	3rd
pH	-	-	-
biochemical Oxygen Demand (total)	54.95	34.7	88.5
Chemical Oxygen Demand (Total)	67.08	61.1	93.7
Total Suspended Solids	19.72	78.5	96.8
Ammonia as N	-	-	74.7

Percentage of Removal Efficiency for Selected GPTs During Maintenance

Extracted from Report 13th International Conference on Urban Drain Sarawak, Malaysia. 7 - 12 Sept 2014
 " A Study on Effectiveness and Performance of Gross Pollutant Traps for Stormwater Quality Control: The River of Life (ROL) Project "
 By Pprofessor Lariyah Mohd Sidek, Hidayah Basri, Mohamed Roseli , Nur Farazuien, Wesentera, Ahmad Fauzan, Md Nasir Md Noh

PARAMETER	% REMOVAL											
	C/ALL-1	C/ALL-2	C/ALL-3	DD-1	DD-2	DD-3	CDS-1	CDS-2	CDS-3	NTVS-1	NTVS-2	NTVS-3
pH	-	-	17.4	-	1.4	1.4	-	-	-	-	-	1.90
Biochemical Oxygen Demand (Total)	-	-	70.6	5.44	-	-	54.95	34.7	88.5	46.24	-	66.70
Chemical Oxygen Demand (Total)	-	-	21.2	-	-	16.7	67.08	61.1	93.7	46.52	6	45.90
Total Suspended Solids	-	-	87.3	-	4.2	5.2	19.72	78.5	96.8	16.28	29.9	66.00
Ammonia as N	-	5.9	21.9	-	18.8	33.3	-	-	74.7	-	-	-

Table 2



Histogram Comparing all 3rd cleaning result