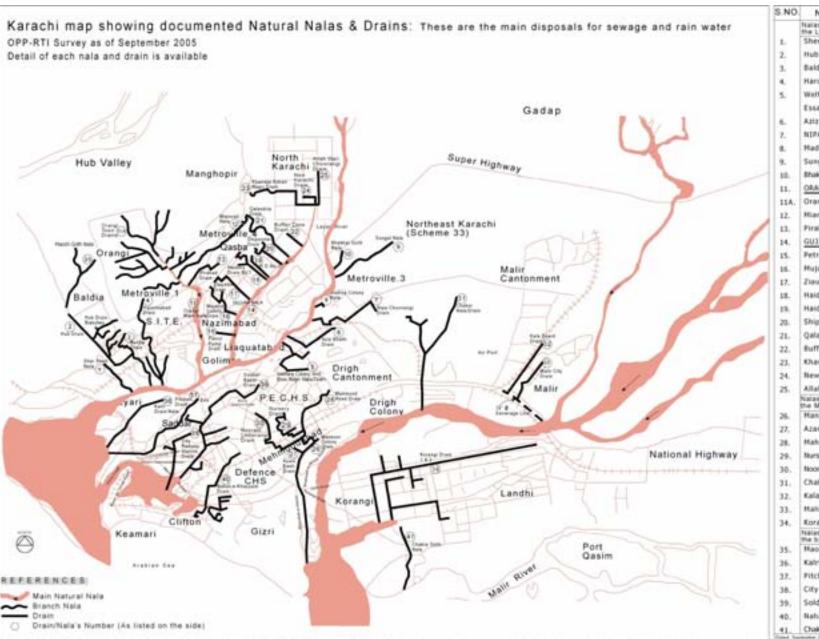
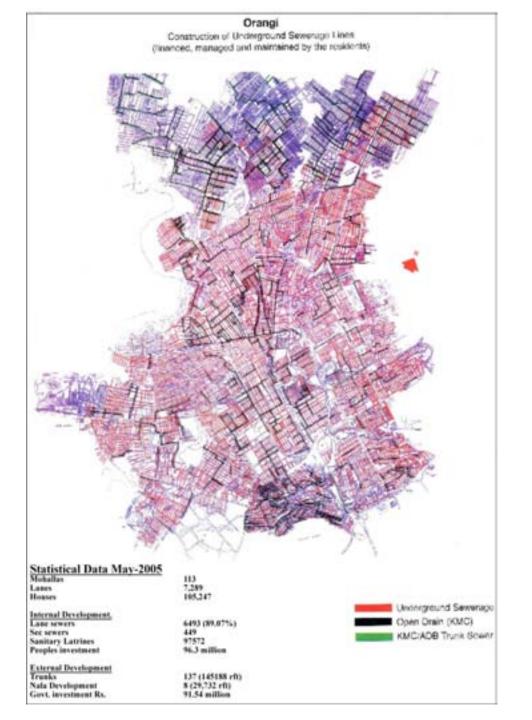
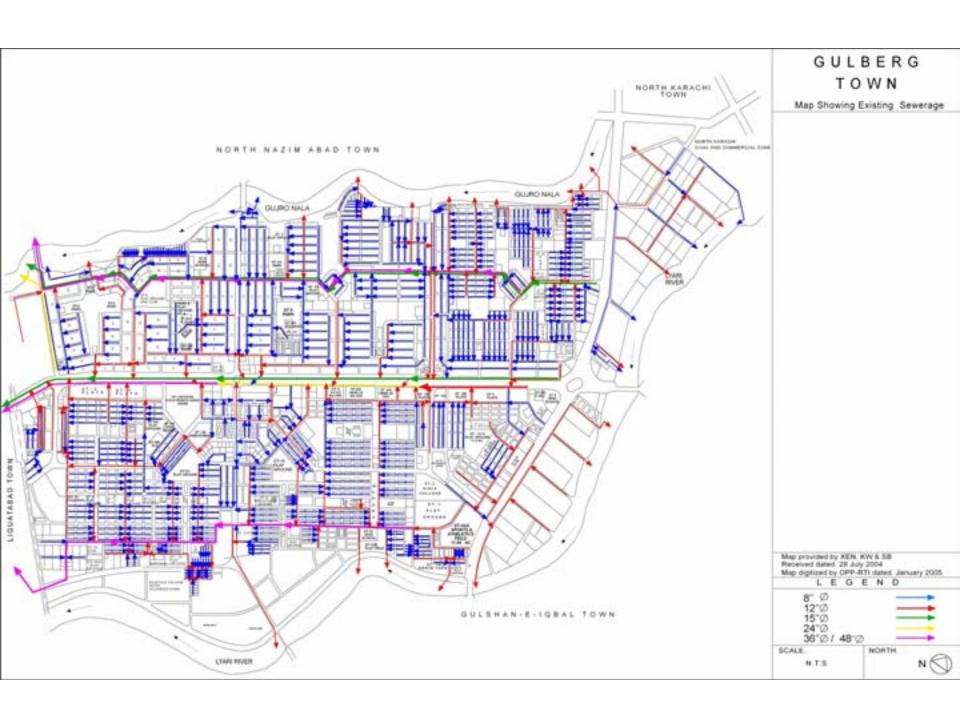
KARACHI RAINS AND THE DRAINAGE CHANNELSISSUES AND SOLUTIONS

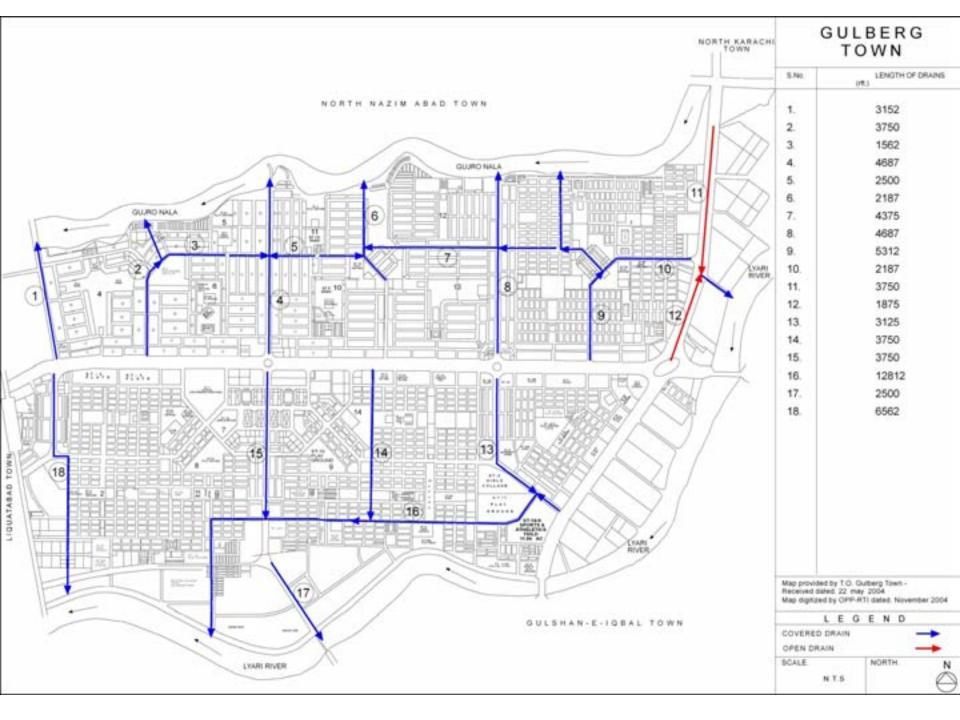
Prepared by the OPP Research and Training Institute



S.NO	NAME OF DRAININALA	LENGTH (rft)
	Natas/drains no 1 to 25 dispose into the Lyari Nadi and then into the sea. Sher Shah Nala	6603
L		
2.	Hub Drain + Branches	36438
3.	Baldia Nala/Drain	15715
4.	Harponabad Drain	25980
5.	Welfare Colony And	16671
	Essa Nagri Nala/Drain	
6.	Aziz Shatti Drain	13856
7.	NIPA Chowrangi Drain	15588
8.	Hadina Colony Nala	1000
9.	Sungal Nala/Drain	8660
10.	Shakkar Goth Nala	3565
11.	ORANGI NALA MAIN (Transp to lunc Brow)	38250
11A.	Orangi Town Drain/Nata is traveled	94234
12.	Hianwali Colony Nala	11256
13.	Pirabad/Muslimabad Drain	5550
14.	GUSTAR NALA	40000
15.	Petrol Pump Drain	3350
16.	Mujahid Colony Drain	12500
17.	Ziauddin Hospital Drain	7000
18.	Haidary Drain - 1	8000
19.	Haidary Drain - II	7600
20.	Shipowner College Drain	6570
21.	Qafandaria Drain	17200
22.	Buffar Zone Drain	1500
21.	Khawaja Ajmair Nagri Drain	19000
24.	New Karachi Drain	2500
	Allah Wali Chowrangi Drain	10500
25.	Naissidravis no 26 to 34 dispose into the Main Nath and then into the sea.	1000
26.	Manzoor Colony Drain	11700
27.	Azam Basti Drain	1750
28.	Mahmoodabad Drain men	13480
29.	Nursery Drain (seeon #12.)	6975
30.	Noocani Chownangi Drain (swom H.b.)	15950
31.	Chakor Nala/Drain	23080
32.	Kala Board Drain	9310
33.	Mater City Drain	9959
34.	Korangi Drain 1 & 2 Isalas/brains no 35 to 41 dispose into the back water and then into the sea	40496
35.	Maoch Goth Nala	23500
36.	Kalri Drain / Nala	94234
37.	Pitcher Drain	12124
38.	City Railway Station Drain	10825
39.	Solder Bazar Drain + 4 Branches	40000
40.	Nahar-e-Khayyam Drain	5629
41.	Chakra Goth Nala	7000







Nala/Drains of Karachi



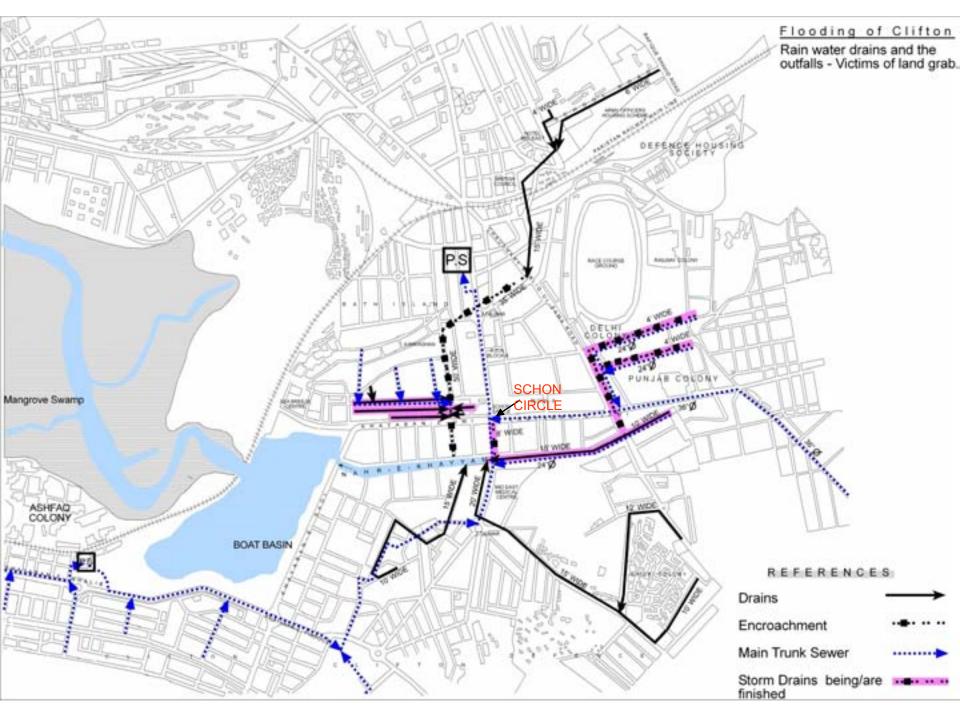
Pitchered Drain



Naher-e-Khyam Nala



Branch of city station railway nala at Jubilee Chowk.







Nehr-e-Khyam nala 125 ft wide being covered into a box drain on one side15 feet wide & 18 feet deep Remaining land is being reclaimed for Plotting.



Branch drain 50 ft wide joins Nehr-e-Khyam.
36" dia pipes, Sample shown in photo, mostly filled up with debris are the connections of the branch drain to Nehr-e-Khyam.

Nehr-e-Khayyam Nala



Nahr-e-Khayyam Branch nala near Bath Island: Lawns of Bunglows encroach over the drain



Piped culverts are bottlenecks causing chocking - need box culverts



Aga Khan Jamaat Khana at Khayaban -e-Rumi over the drain

Rich encroach over the nalas/drains, while the poor give space for the development of these.



Nahr-e-Khayyam Branch nala near Bath Island: Lawns of Bunglows Encroach over the drain

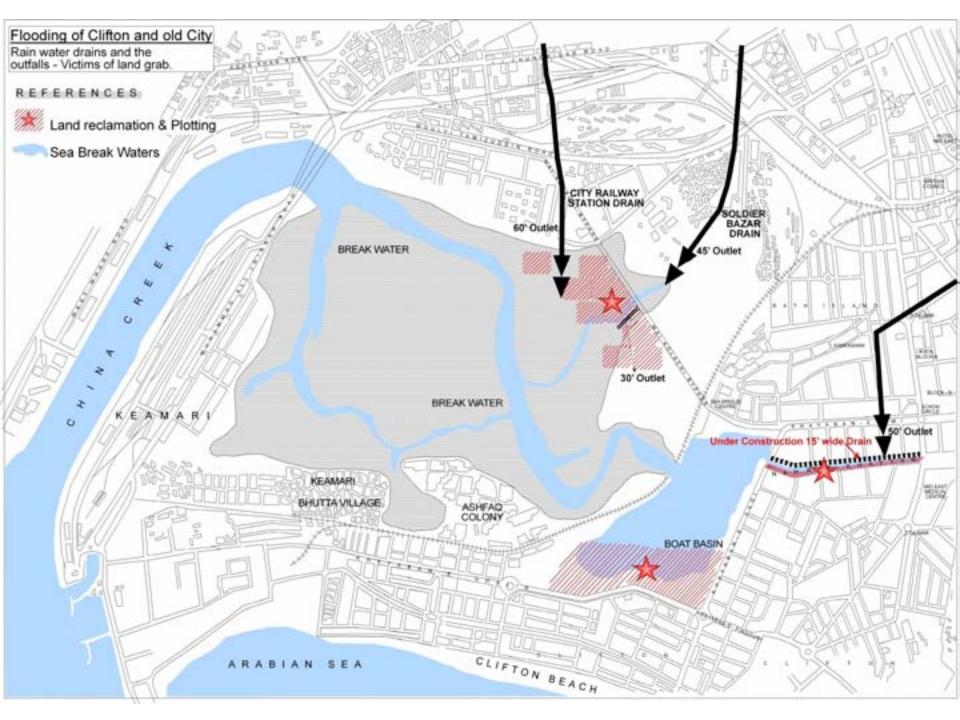
Orangi town Islam nagar nala: Residents undertake voluntary dismantling of portions of their houses to give space for the development of nalas in Orangi. City govt. is developing these main disposals as box drains.



Nehr-e-Khayyam branch drain. Encroachments over it, demolitions by KWSB







Soldier Bazar drain OPP-RTI DATED: 02-08-2006



Incoming at Mai Kolachi Bypass



Out fall culvert already chocked



Out fall reduced to about 35 feet

Mai Kolachi Bypass. Reclaiming Of mangroves land and plotting





OPP-RTI DATED: 02-08-2006

Mai Kolachi Bypass. Reclaiming Of mangroves land and plotting





OPP-RTI DATED: 02-08-2006

Boat Basin-Reclaiming of land and plotting







Soldier Bazar drain- encroachments over it



NBP Branch



Jewel palace



Habib Bank Branch

Soldier Bazar drain- encroachments over it



Girls College



The Government School



Shaheen Complex Car Parking

Soldier Bazar drain- encroachments over it



K.M.C Market



Side road



Aurangzaib Market

Soldier Bazar drain encroachments over it.

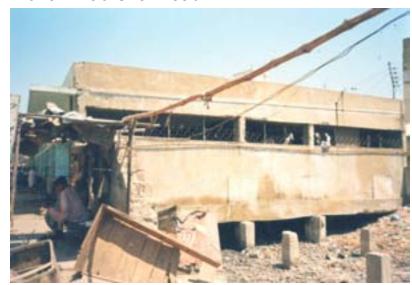




Pitchered nala



Kikri ground over the Pitcher nala at Sayed Muhammad Shah road



Ghowchat market.



Masjid over the Nala



Al- syed Muhammed Shan road.

Nalas /drain of Karachi - Besides desilting the issues in flow

Piling - negligent dumping of earth at the openings



Korangi Road. Manzoor colony nala crosses here, then passes thru DHA reclaimed land (near Qayyumabad), and falls into the sea. Takes water from 70% Jamshed Town also from Nursery & Airport road. Piling for road construction, blocks the culvert openings



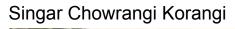




Wide drain reduced to piped connection: Branch drain starting from Karachi cantt station (6 feet wide) becomes 50 ft wide when passing below Aga Khan Jamaat Khana. Then thru Boat Basin the branch joins Nehr-e-Khyam. These 2 pipes, 36" dia shown in photos above, mostly filled up with debris are the connections of the branch drain to Nehr-e-Khyam.



Main Soldier Bazar drain KMC Market





Madina Colony Nala Gulshan-e-Iqbal

Water Lines in Nala /Drains of Karachi



Orangi Main Nala



Pir Pagara road drain – Gulshan KESC office



Haroonabad Nala



Other services too



Gujjar nala North Nazimabad



Mianwali Nala

Piped culverts are bottlenecks causing chocking - need box culverts

Haryana Nala

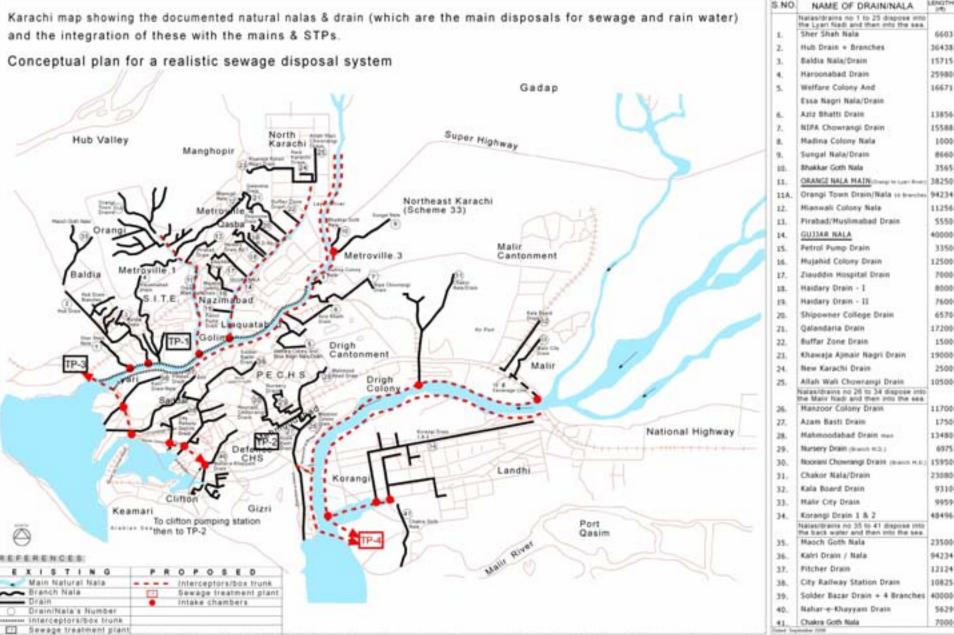
Developed in to box trunk thru KMC/CDGK



Before



After



MINOTH

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