

ÖZKARTALLAR CAMPAK JOINT VENTURE

**Solid Waste
Management Plan for
Paki Thathi (UC-103)**

2015

By:

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5TH FLOOR, SHAHEEN COMPLEX, EGERTON ROAD, LAHORE

Contents

1. Facts.....	2
2. Operational Arrangements / Resources Deployed	2
2.1 1 st Shift Arrangement – 6 AM to 2 PM.....	2
2.2 2 nd Shift Arrangement - 2 PM to 10 PM	3
2.3 3rd Shift Arrangement – 10 PM to 6 AM	3
3 Introduction.....	4
4 Solid Waste Generation	4
5 Solid Waste Management Practices	4
6 Street Sweeping and Waste Collection by Sanitary Workers	5
6.1 Team Division	5
7 Human Resource	5
8 Solid Waste Storage	7
8.1 Waste Storage Facility.....	7
8.2 Points of Containers.....	8
9 Solid Waste Collection & Transportation.....	9
9.1 Route for Compactor	9
9.2 Staff Deployment for Compactor Vehicle	10
10 Door To Door Waste Collection	11
10.1 System for D-T-D Waste Collection	11
11 Major Roads.....	13
12 C & D Points.....	13
13 Open Plots.....	14

Özkartallar Campak Joint Venture

1. Facts

SR.N	Description	
1	Phase	C
2	UC	103 –Paki Thathi
3	Deputy Manager Operations	Muhammad Ali Saleem
4	Zonal Officer LWMC	Tayyab
5	Population	66052
6	UC Area	1016187 m ² (middle income)
7	Waste Generation (estimated)	42.93 kg/person/day

2. Operational Arrangements / Resources Deployed

2.1 1st Shift Arrangement – 6 AM to 2 PM

Manual Sweeping			
Sanitary Supervisors	3		
Sanitary Workers	45		
Wheelie Bins	7		
Hand Carts	27		
Special Gang			
Sanitary Workers	33		
Sanitary Supervisor	1		
Note: Special Gang solely on Deputy Manager disposal to attend important complaints and to work for absent workers beats of the day			
Containers Collection			
Containers Placed	44		
Containers Points	15		
Compactors	C-1012		1 trip, approx. 10 tons
	C-1089		1 trip, approx. 10 tons
Drivers	2		
Helpers	4		
D-T-D Collection			
Mini Dumpers – Suzuki Pickup	1	MD-05	
Driver	1		
Helper	1		
Note: Compactor also collecting waste if waste bags found on road or in front of home or shop			

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2.2 2nd Shift Arrangement - 2 PM to 10 PM

Manual Sweeping - Special Gang		
Shift In-Charge	1	
Sanitary Workers	4	
Driver	1	
Note: for taking care of UC-103, attending major roads, markets, 1139 complaints and to coordinate compactors and ensure containers collection.		
Containers Collection		
Compactors	1	C-1098, 1 trip (approx. 8 to 10 tons)
Note: attending UC 103		

2.3 3rd Shift Arrangement – 10 PM to 6 AM

Containers Collection		
Compactors	1	C-1019, 1 trip (approx. 8 to 10 tons)
Driver	1	
Helper	2	
Note: Attending all UC's		

3 Introduction

Union Council – 103 (Paki Thathi) is located in Samanabad Town. Total area of the UC is 1016187 m² with population of 66052¹. This area is predominantly middle income area with planned settlement.

Figure 1: Map of UC 103



4 Solid Waste Generation

Estimated solid waste generation is 42.93 tons per day @ waste generation rate of 0.65 kg/person/day.

5 Solid Waste Management Practices

This area is under control of M/s. OZPak J.V for solid waste management. Existing arrangements for SWM based upon actual operations are as follows:

¹ Punjab Development Statistics – 2011, Bureau of Statistics, Govt. of the Punjab

6 Street Sweeping and Waste Collection by Sanitary Workers

6.1 Team Division

Teams are divided according to equivalent sweeping length of the area which is as follows:

Teams/Block	Street Length (m)	Length per Worker (m)
1	7000	700
2	9500	633
3	7100	710
4	7700	770
5	7700	770
Total	39000	Avg. (866)

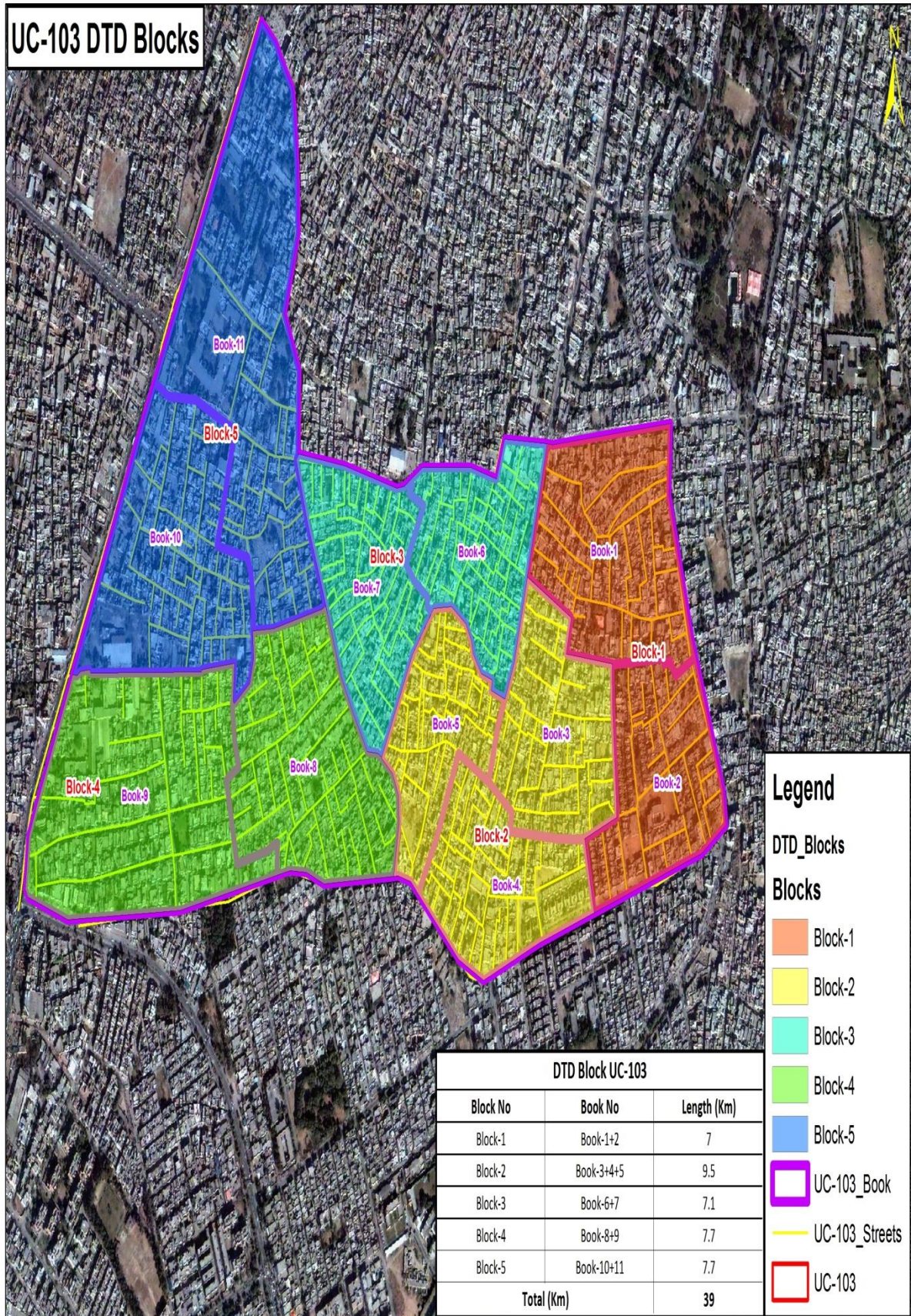
- 10 sanitary workers deployed in each Team and each sanitary worker has his own defined beat.
- Solid waste is collected by sanitary workers from streets & households and hauled to container by wheelie bins / hand carts.
- Waste bags also used for roads sweeping

7 Human Resource

Teams	Supervisor/Sargent	Sanitary workers
1	Sargent 1	15
2	Sargent 2	20
3	Sargent 3	10
Total	3	45

Overall In-charge Manual Sweeping	IMTIAZ AHMAD (0312-5855010)
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Figure 2: Map of System Blocks/Teams

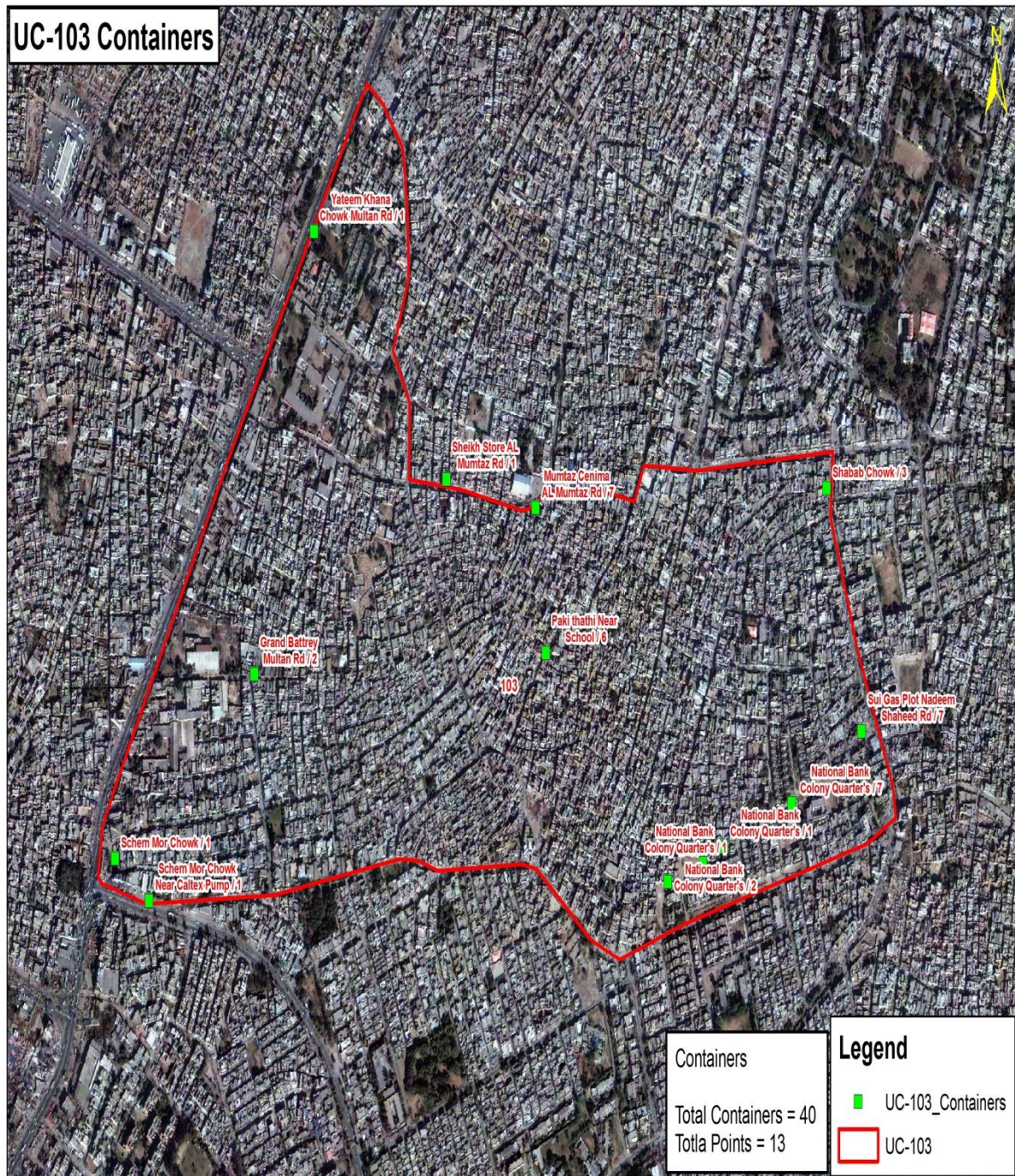


8 Solid Waste Storage

8.1 Waste Storage Facility

- Currently 40 waste storage containers are placed at 15 different points.
- Storage capacity is 10 tons in one time lifting
- Lifting is operational in 3 times

Figure 3: Points of Containers



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8.2 Points of Containers

Sr. No.	Location of Containers	No. of Containers
C13-1012		
1	Main Multan Road near Lyric Cenima Gourmet Bakers	1
2	Scheme Mor	1
3	Scheme Mor Main Boulevard Caltex Pump	1
4	Chowk Yateem Khana Flower Market	1
5	Millat Chowk Al-Mumtaz Road	1
6	Al-Mumtaz Cenima Paki Thathi	13
	Sub Total	18
C13-1089		
7	National Bank Colony Main Gate Naeem Shaheed Road	1
8	Naeem Shaheed Road Ramzan Bazaar	1
9	Sui Gas Plot Nadeem Shaheed Road	5
10	Shabab Chowk Nadeem Shaheed Road	2
11	National Bank Colony Jam-e-Masjid Madni Plot	5
12	National Bank Colony Attendance Point	2
13	National Bank Colony office Open Plot near Sadaat Colony	1
14	National Bank Colony Open Plot near Sadaat Colony	4
15	National Bank Colony Tanki near Imam Bargah	1
	Sub Total	22
	Grand Total	40

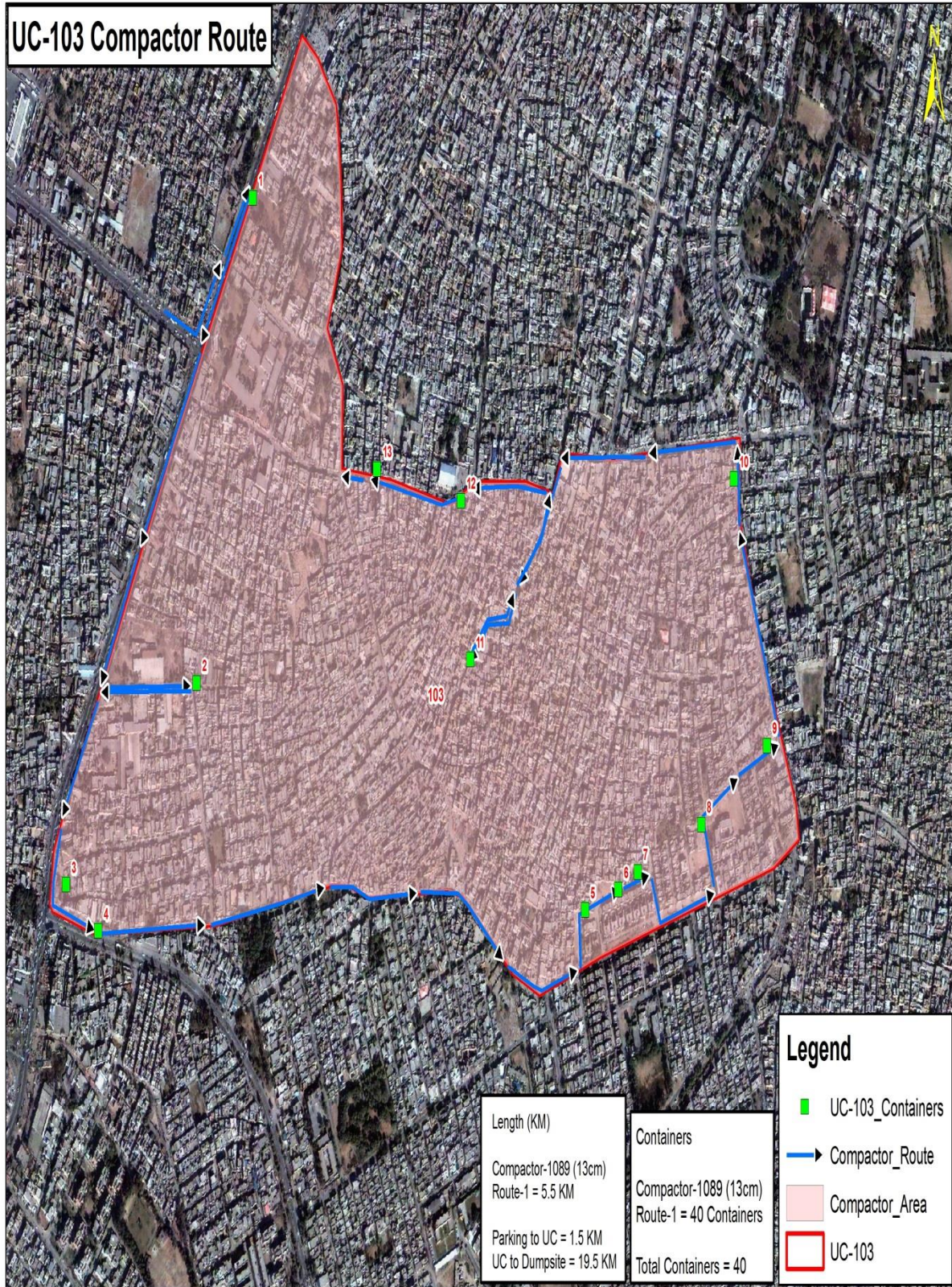
**Overall In-Charge
Container Collection**

IMTIAZ AHMAD
(0312-5855010)

9 Solid Waste Collection & Transportation

9.1 Route for Compactor

Figure 3: Existing Route for Compactor Vehicle (little variation possible)



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9.2 Staff Deployment for Compactor Vehicle

Conservancy Staff Zone-20						
Overall In-charge =M Ali (0333-8309550)						
Supervisor = Liaqat Suroya (0323-4690682)				Supervisor = Zafar Iqbal (0321-4835525)		
1st shift				2nd shift		
UC	Vehicle No.	Driver Name & Mobile No.	Helpers	Vehicle No.	Driver Name & Mobile No.	Helpers
103	1089	Ashfaq Hamid (0322-8439732)	Nazar Laal	1098	Nasir Munir (0311-4414151)	Waqas
			Nadeem Younas			
	1012	Farooq Hussain (0322-4221120)	Aslam Bashir			Mushtaq
			khuram Georange			
104	1075	Shahid Mehmood (0341-4000142)	Adnan Riaz	1089	Nadeem Butt (0322-8065612)	Pervaiz
			Liaqat Shir			
	1098	Nadeem Rashid (0315-6939439)	Amin Sama			Ashraf
			Riaz			
107	1034	Asrar Ghulam (0300-4612488)	Javaid Daniyal	1075	Sarwer (0323- 864085)	Baber
			Azeem Boota			
	1055	Muzamal Peer (0344-4065213)	Son Natha			Fiaz
			Javaid Laba			
108	1043	Asif Siddique (0300-8810736)	Salim Sadiq	1098	Nasir Munir (0311-4414151)	Waqas
			safdar dogar			
	1036	Qaiser Masih (0304-4651052)	Rafique Hadyat			Mushtaq
			Qaiser josaph			
109	1097	Akmal Akbar (0344-7841179)	Baga Karamat	1091	Muhammad Tariq (0300- 4820350)	Sunny
			Ali Riaz			
	1024	Adnan George (0315-4688438)	Sadiq Saraj & Azmat			Shahbaz
115	1040	Illyas Hamid (0311-4944290)	Daniyal sabar	1066	Heera (0314- 4976088)	Sohail
			Kramat Manha			
	1091	Bola Mangta (0331-4718543)	Naeem Salim			Nadeem
			Ishaq			
All UC's Main Roads	1064	M. Maalik (0306-4010063)	Karamat			
			Kala Inayat			
Multan Road	1066	Amanat Laba (0302-4832052)	Imran			
			Fiaz			

10 Door To Door Waste Collection

10.1 System for D-T-D Waste Collection

- 1 Pickup for door to door waste collection
- Waste collected by pickup will be unloaded into nearby Compactor or transfer station.
- Compactors are also collecting waste if found in waste bags on road or in front of home or shop

Mini Dumper / Suzuki Pickup			
Block 1	6:30 AM to 8:00 AM	Block 2	8:00 AM to 10 AM
Block 3	10 AM to 11:30 AM	Block 4	11:30 AM to 12:30 PM
Block 5	12:30 PM to 1:30 PM		

Block	Major Areas/ Muhallas
Block 1	Nadeem Shaheed Road, Islamabad Colony, Ghalib Colony
Block 2	National Bank Colony, Sadaat Colony,
Block 3	Al-Mumtaz Road, Pakki Tathi Main Road, Muhalla Karmabad
Block 4	Itehaad Colony, Millat Road, Shareef Park, Sheraz Park
Block 5	Zubaida Park and Surrounding area

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Figure: 5 Door-to-Door Maps

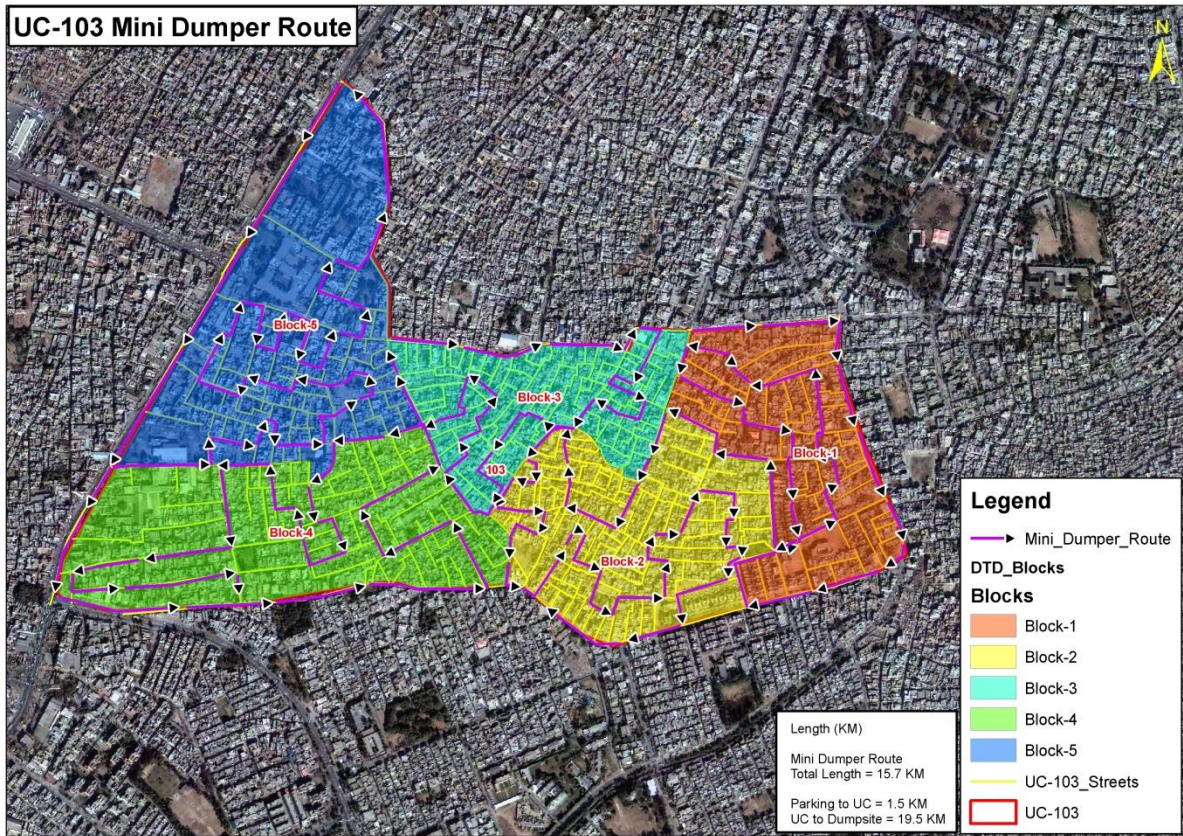
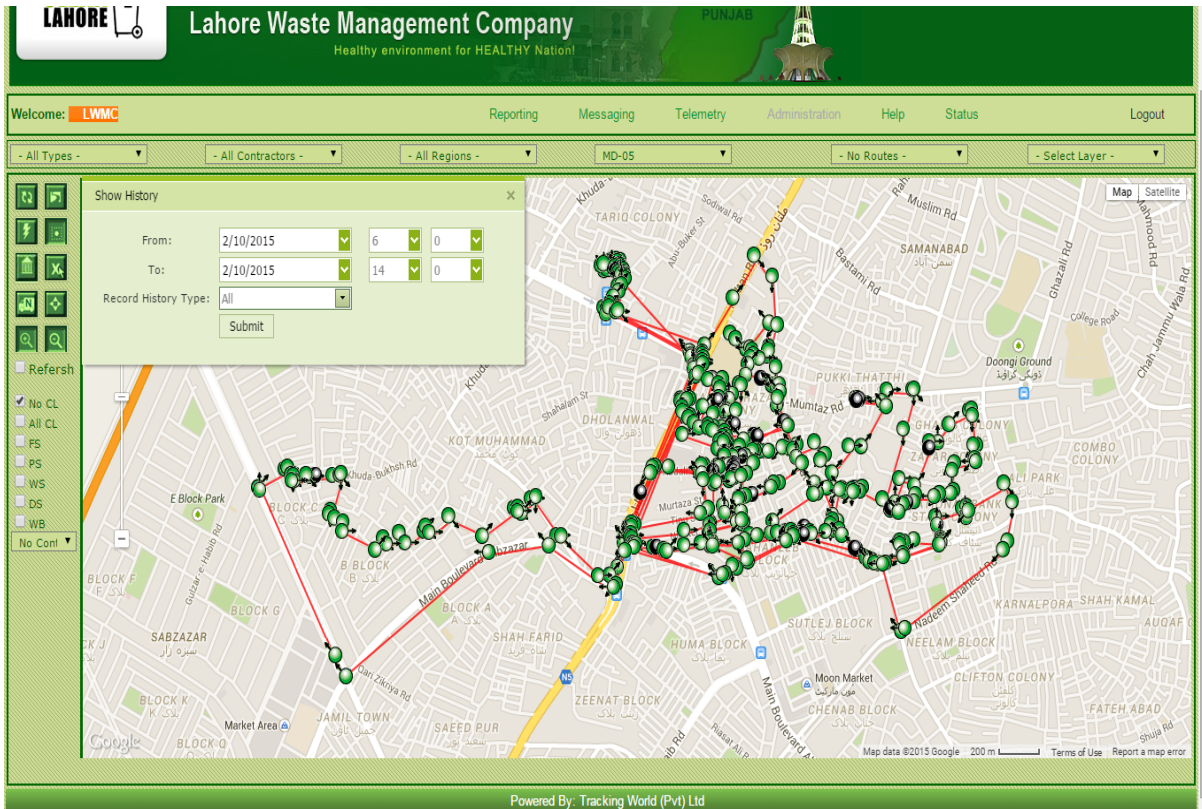


Figure: 6 Mini-Dumper Screen Shot



11 Major Roads

- Multan Road
- Naeem Shaheed Road
- Nadeem Shaheed Road
- Al-Mumtaz Road
- Millat Road
- Paki Thathi Main Bazaar

12 C & D Points

In UC-103 there are few points where C & D Waste comes frequently. The list is as follows

- Farroqia Masjid Naeem Shaheed Road
- National Bank Colony Jamia Masjid Madni Plot
- Sharif Park Graveyard
- Zubaida Park Al-Nissa Grammer School
- City Government School Pakki Thathi
- Multan Road Scheme Mor Choking Point

Figure 7: C & D Points



13 Open Plots

UC-103 is Urban therefore number of open plots in this UC is very less.

- Farooqia Masjid
- Sui Gas Plot
- Bank Colony
- Itehaad Colony

