

ÖZKARTALLAR CAMPAK JOINT VENTURE

**Solid Waste  
Management Plan for  
Muslim Town (UC-115)**

2015

*By:*

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5TH FLOOR, SHAHEEN COMPLEX, EGERTON ROAD, LAHORE

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## Özkartallar Campak Joint Venture

### 1. Facts

SR.N	Description	
1	Phase	C
2	UC	115 –Muslim Town
3	Deputy Manager Operations	M. Ali Saleem
4	Zonal Officer LWMC	Tayyab
5	Population	54734
6	UC Area	5588980 m <sup>2</sup> (middle income)
7	Waste Generation (estimated)	35.57 kg/person/day

### 2. Operational Arrangements / Resources Deployed

#### 2.1 1<sup>st</sup> Shift Arrangement – 6 AM to 2 PM

<b>Manual Sweeping</b>			
Sanitary Supervisors	4		
Sanitary Workers	44		
Wheelie Bins	4		
Hand Carts	25		
<b>Special Gang</b>			
Sanitary Workers	33		
Sanitary Supervisor	1		
<b>Note:</b> Special Gang solely on Deputy Manager disposal to attend important complaints and to work for absent workers beats of the day			
<b>Containers Collection</b>			
Containers Placed	123		
Containers Points	52		
Compactors	C-1040	1 trip, approx. 10 tons	
	C-1091	1 trip, approx. 10 tons	
Drivers	2		
Helpers	4		
<b>D-T-D Collection</b>			
Mini Dumpers – Suzuki Pickup	1	MD-44	
Driver	1		
Helper	1		
<b>Note:</b> Compactor also collecting waste if waste bags found on road or in front of home or shop			

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### 2.2 2<sup>nd</sup> Shift Arrangement - 2 PM to 10 PM

<b>Manual Sweeping - Special Gang</b>		
Shift In-Charge	1	
Sanitary Workers	4	
<b>Note:</b> for taking care of whole UC-115, attending major roads, markets, 1139 complaints and to coordinate compactors and ensure containers collection.		
<b>Containers Collection</b>		
Compactors	1	C-1066, 1 trip (approx. 8 to 10 tons)
Note: attending UC 115		

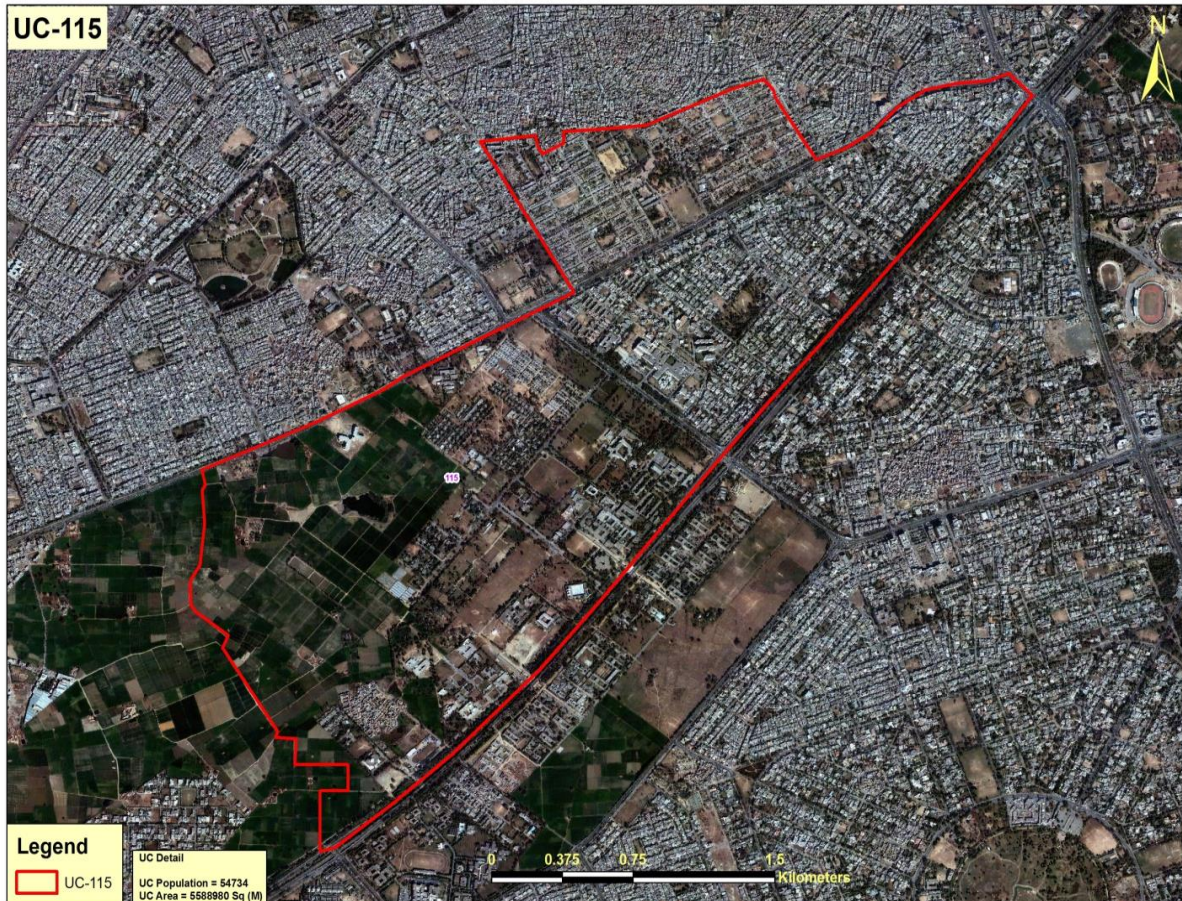
### 2.3 3<sup>rd</sup> Shift Arrangement – 10 PM to 6 AM

<b>Containers Collection</b>		
Compactors	1	C-1019, 1 trip (approx. 8 to 10 tons)
Driver	1	
Helper	2	
<b>Note:</b> Attending all UC's of Zone-20		

### 3 Introduction

Union Council – 115 (Muslim Town) is located in Samanabad Town. Total area of the UC is 5588980 m<sup>2</sup> with population of 54734<sup>1</sup>. This area is predominantly middle income area with planned settlement.

Figure 1: Map of UC 115



### 4 Solid Waste Generation

Estimated solid waste generation is 35.57 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:

<sup>1</sup> 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	7700	855
2	6500	812
3	11400	760
4	9400	783
<b>Total</b>	<b>35000</b>	<b>Avg. (802)</b>

- Approximately 12 sanitary workers deployed in a 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

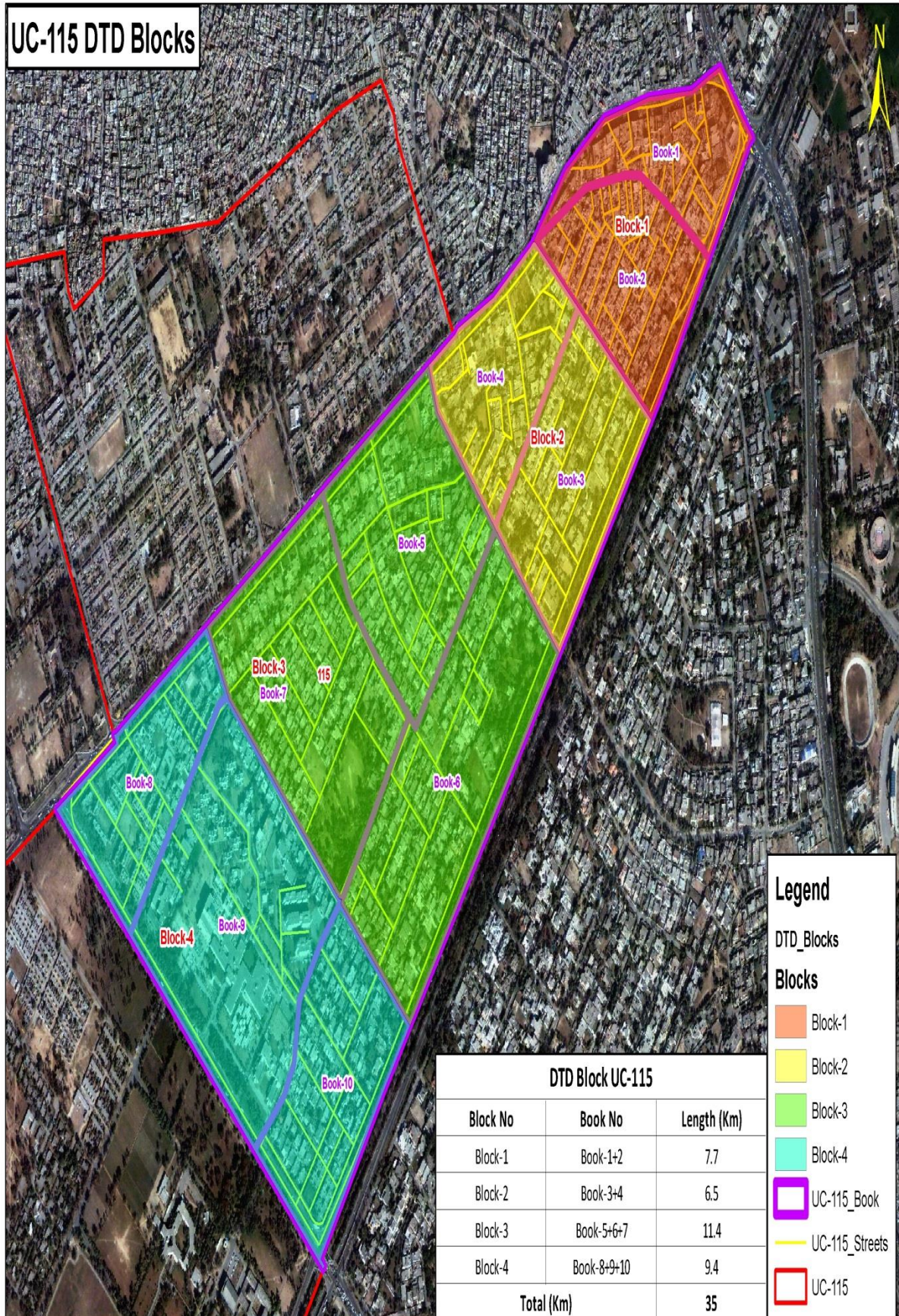
## 7 Human Resource

Teams	Supervisor/Sargent	Sanitary workers
1	Sargent 1	9
2	Sargent 2	8
3	Sargent 3	15
4	Sargent 4	12
<b>Total</b>	<b>4</b>	<b>44</b>

<b>Overall In-Charge Manual Sweeping</b>	WAQAS IQBAL (0324-4110221)
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Figure 2: Map of System Blocks/Teams



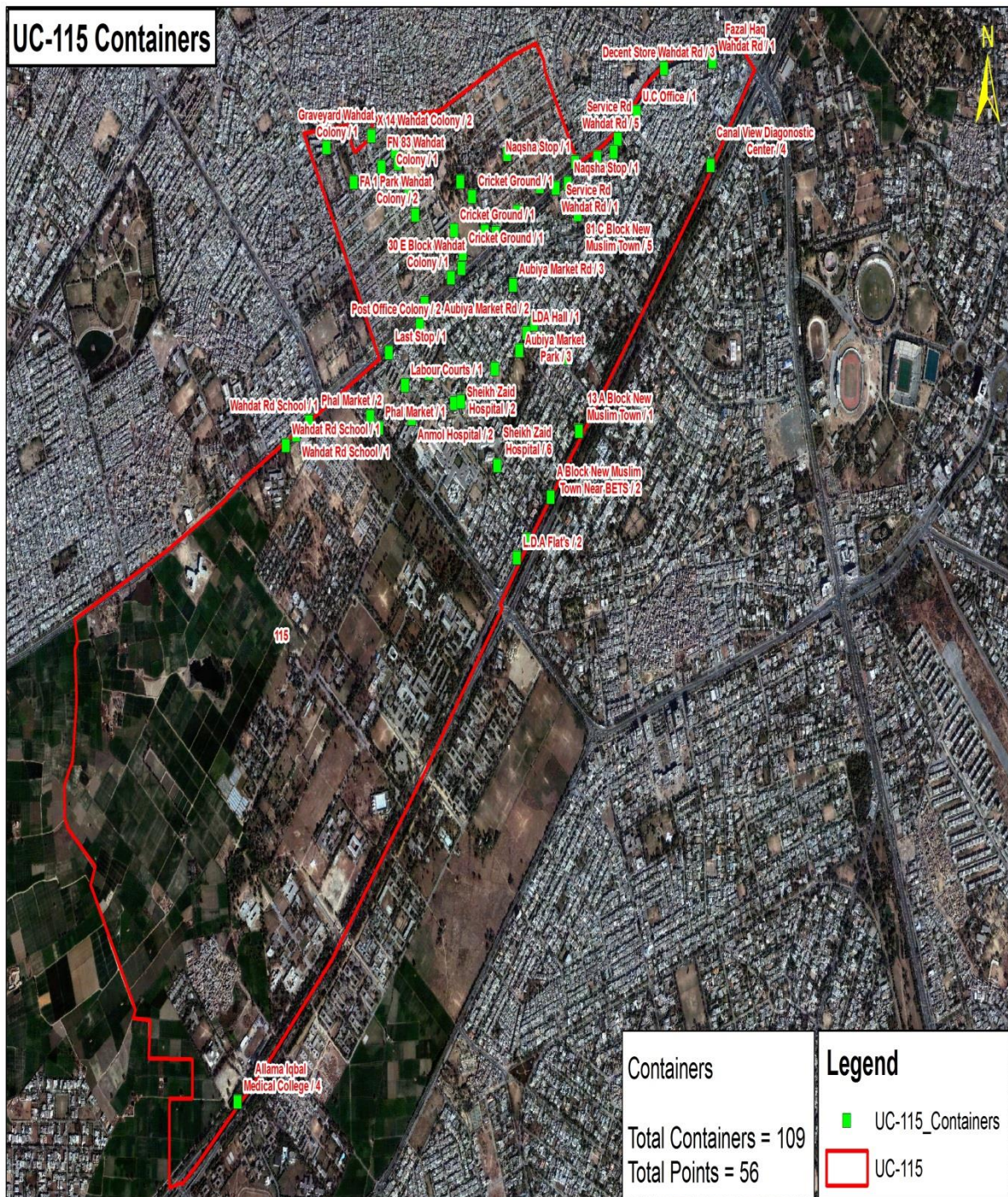


8 Solid Waste Storage

8.1 Waste Storage Facility

- Currently 123 waste storage containers are placed at 52 different points.
- Storage capacity is 30.75 tons in one time lifting
- Lifting is operational in 3 times

Figure 3: Location of Containers





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### 8.2 Points of Containers

Sr. No.	Location of Containers	No. of Containers
<b>C13-1040</b>		
1	81-C Block Muslim Town	7
2	Ayubia Market Muslim Town	4
3	MQM Office Muslim Town	4
4	Anmol Hospital Muslim Town	5
5	Flower Market Sheikh Zaid Road	5
6	Fazal-e-Haq Street Wahdat Road	2
7	Abpara Market Wahdat Road	1
8	Roofan Wala Plot A Block	4
9	Behind Sheikh Zaid Hospital	4
10	UHS Sheikh Zaid	3
11	Good Luck Bakery Wahdat Road	1
12	Naqsha Stop Wahdat Road	2
13	Wahdat Road Service Road Tubewell	3
14	Liaqat Baloch Point Wahdat Road	6
15	City School Wahdat Road	1
16	Postal Colony Wahdat Road	3
17	Wahdat Road Service Road PSO Pump	1
18	Inside Sheikh Zaid Hospital	4
19	Wahdat Road Bhaekay Wala Mor	1
20	Girls Model School Wahdat Road	1
21	Wahdat Road Comprehensive School	1
22	Wahdat Road Bhaekay Wala Pind	1
23	234 A Block Muslim Town	3
24	Muslim League Office Muslim Town	1
	<b>Sub Total</b>	<b>68</b>
<b>C13-1091</b>		
25	302 C Block Muslim Town	3
26	LDA Flats Muslim town	2
27	Wahdat Road near Base III	1
28	Base III Office Wahdat Road	1
29	Inside Central Colony	6
30	Allama Iqbal Medical College Canal Road	4
31	Canal Service Road	1
32	LDA Flats Canal Service Road	2
33	PIMSAT Institute Canal Service Road	2
34	Nestle Filter Canal Service Road	1
35	Heastage College Canal Road	1
36	Punjab College Canal Road	4
37	Wahdat Colony Naqsha Stop	1
38	Wahdat Colony Service Road Post office	1
39	Wahdat Colony C Block Service Road	2
40	Wahdat Colony Police Station	1

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41	Wahdat Colony Cricket Ground	1
42	Tanki Point Wahdat Colony	4
43	Wahdat Colony Ladies Park	1
44	Wahdat Colony Tubewell near Itwaar Bazaar	2
45	Wahdat Colony Pilot School Backside	3
46	F-83 Wahdat Colony	1
47	Kachi Abadi Itefaq Colony	2
48	FA-I Wahdat Colony	2
49	Qabristan Wahdat Colony	1
50	Post Graduate College Wahdat Colony	2
51	Sadqa Bakra Wahdat Colony	2
52	Shahab-u-Din School Wahdat Colony	1
	<b>Sub Total</b>	<b>55</b>
	<b>Grand Total</b>	<b>123</b>

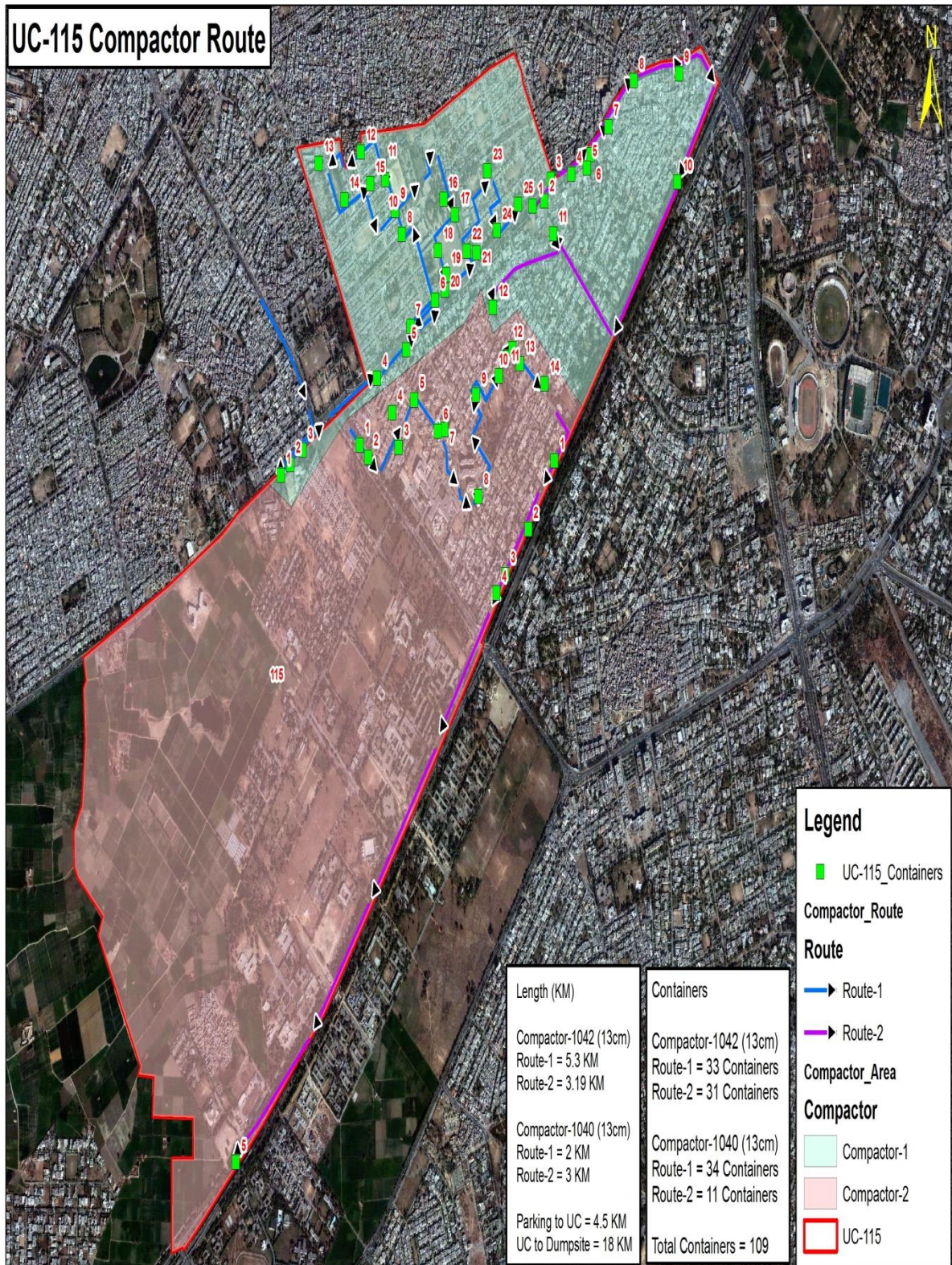
<b>Overall In-charge Container Collection</b>	WAQAS IQBAL (0324-4110221)
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9 Solid Waste Collection & Transportation

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**

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



**10 Door To Door Waste Collection**

**10.1 System for D-T-D Waste Collection**

- 1 Mini-Dumper 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

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

<b>Blocks</b>	<b>Major Areas/ Muhallas</b>
<b>Block 1</b>	Old Muslim Town
<b>Block 2</b>	A Block Muslim Town
<b>Block 3</b>	B Block Muslim Town, C Block Muslim Town
<b>Block 4</b>	D Block Muslim Town, Postal Colony Link Streets

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Figure: 5 Door-to-Door Maps

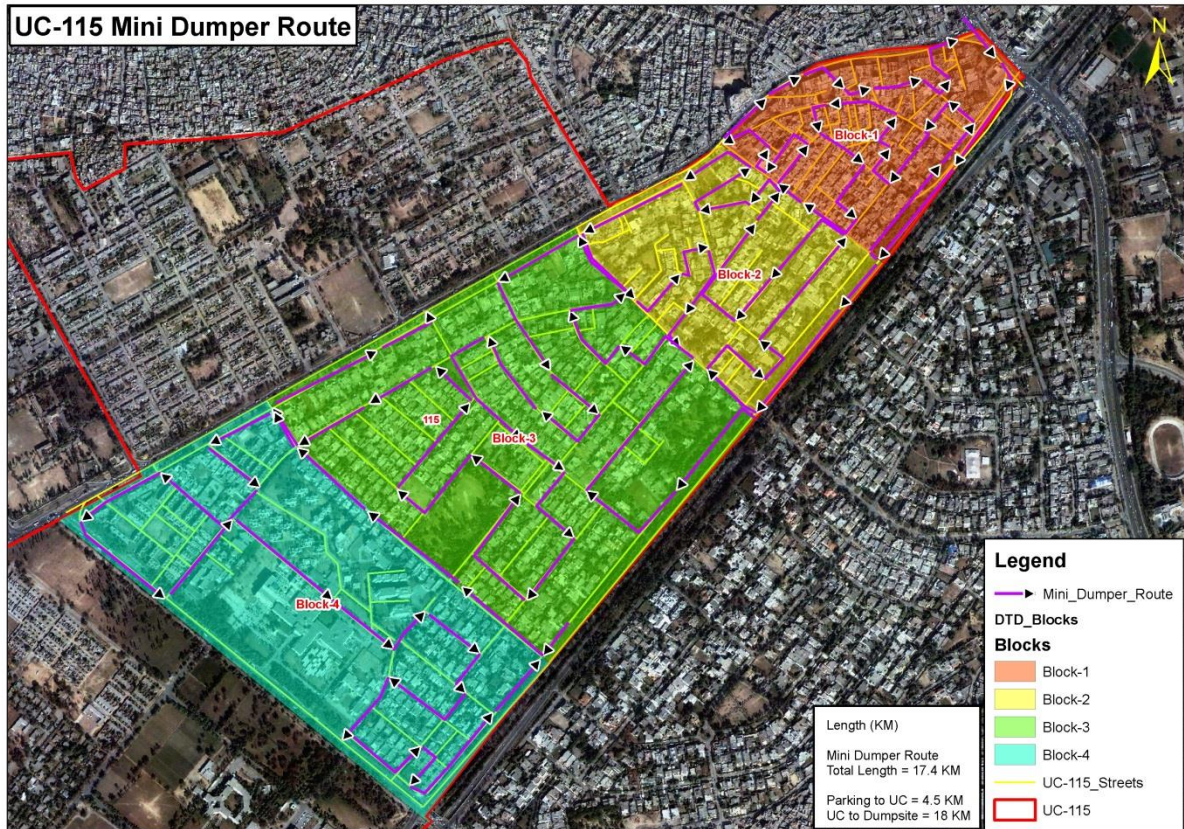
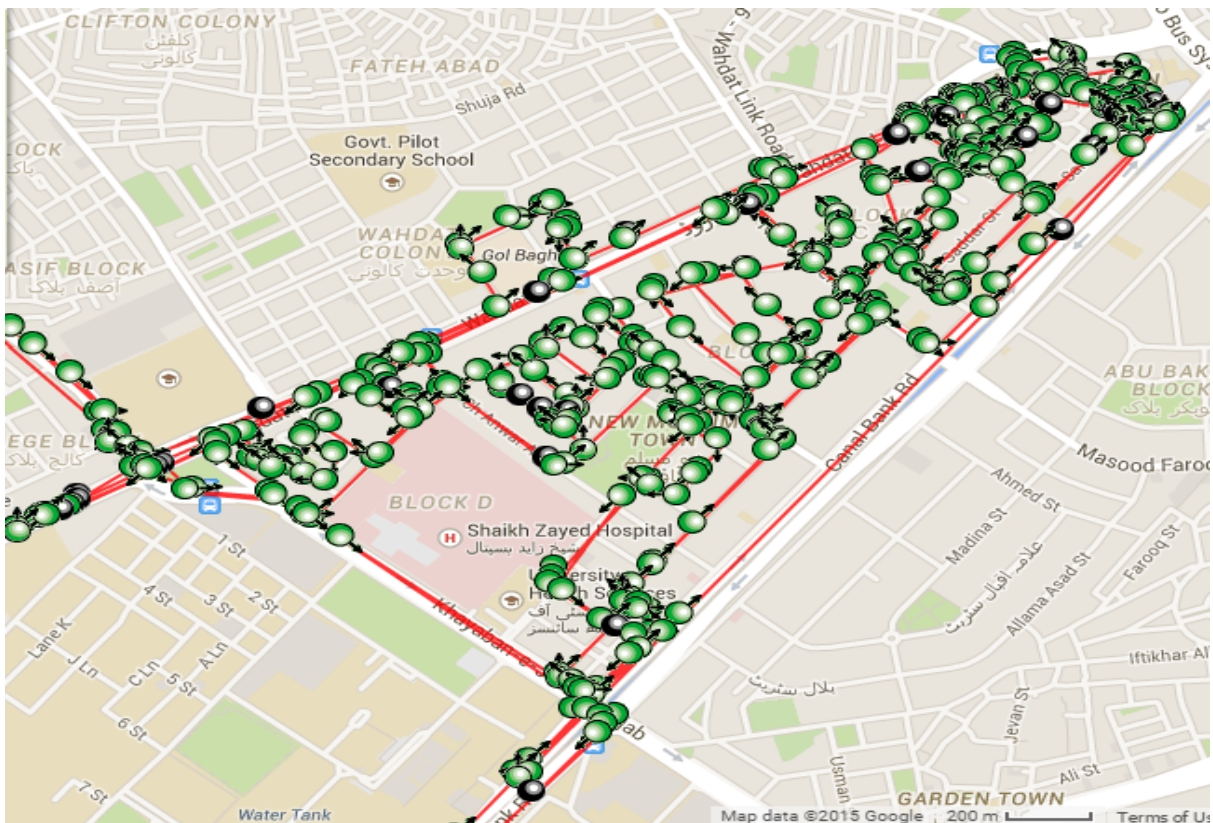


Figure: 6 Mini-Dumper Screen Shot





**11 Major Roads**

- Wahdat Road
- Canal Road
- Sheikh Zaid Road
- Muslim Town MOR

**12 C & D Points**

- Postal Colony Wahdat Road
- Liaqat Bloch Point Wahdat Road
- Canal Service Road
- UHS Point Sheikh Zaid
- Flower Market
- Wahdat Colony

**13 Open Plots**

- 81 C Muslim Town
- 302 A Muslim Town
- Roofan Wala Plot Muslim Town
- Wahdat Colony near Itwaar Bazaar

