

**PPP PROJECT FOR THE CITY OF BELGRADE
FOR THE PROVISION OF SERVICES OF TREATMENT AND DISPOSAL OF RESIDUAL SOLID WASTE**

EXPLANATORY NOTE FOR RAW DATA ON WASTE QUANTITIES FROM THE WEIGHBRIDGE

Data contained in the files Weighbridge_RawData_2013.mdb and Weighbridge_RawData_2014 under Microsoft Office Access workbooks called "Druga_merenja" can be opened in Microsoft Office Excel. The workbooks contain the following information:

Item	Column titles	Translation	Potential values	Potential inconsistency arising
1	<ul style="list-style-type: none"> ID_Broj Broj_protokola 	Protocol numbers		
2	<ul style="list-style-type: none"> Garazni_broj 	Vehicle garage number	Values may be identical with the values in the column "Broj_vozila" (Item 4).	This column was created to account for PUC Gradska Cistoca vehicles' internal garage number, in order to facilitate the process at the weighbridge. In other words, staff at the weighbridge can enter the short garage number instead of the entire license plate number when a vehicle arrives. The values in this column may thus be identical with those of the column "Broj_vozila" (Item 4).
3	<ul style="list-style-type: none"> Ime_vozaca 	Name of the driver		
4	<ul style="list-style-type: none"> Broj_vozila 	License plate or garage number of the vehicle	<u>License plate number</u> <u>Garage number</u>	Please refer to Item 2 above.
5	<ul style="list-style-type: none"> Sifra_komitenta Naziv_komitenta Adresa_komitenta 	Code, Name and Address of the party delivering waste		
6	<ul style="list-style-type: none"> Tip_merenja 	Waste flow direction	<u>"Ulaz": incoming waste</u> <u>"Izlaz": outgoing waste</u> <u>"Ostalo": other</u>	
7	<ul style="list-style-type: none"> Kubikaza 	Volume in m ³		

8	<ul style="list-style-type: none"> ▪ Sifra_robe ▪ Opis_robe 	Description/type of waste	<p>The values in this column describe the type of waste going through the weighbridge. In most cases, the type of waste is described by the characteristics or materials contained in the vehicles (municipal waste, dry soil, bulky waste, C&D waste...). In other cases, this column may indicate "AKCIJA" (this term refers to the City's seasonal practice activities such as the cleaning of dumpsites in cooperation with other PUCs), "UNISTENJE ROBE" (destruction of the delivered goods), or "USLUZNO MERENJE" (vehicles that are only weighed but not disposed of at the landfill).</p>
9	<ul style="list-style-type: none"> ▪ Vaga1 ▪ Datum1 ▪ Vreme1 ▪ Masa1 ▪ Jedinica1 	Scale number, Date, Time, Weight and Unit of the incoming truck	<p>If the weighing is performed with a pre-registered vehicle (cf. Item 14), Datum1 is the date at which the vehicle was originally weighed and registered. Therefore, the time lapse between Datum1 (date of original registration of the vehicle's weight) and Datum2 (Item 10) may in some cases be considerable, although all waste quantities are registered on the same day that the vehicle comes to the landfill. When the vehicle's weight is pre-registered, Datum2 is more accurate to determine the date and time at which the vehicle delivered the waste weighed at the weighbridge. Also, values indicating date and time (Datum1, Vreme1, Datum2, Vreme2) may need to be reformatted when opened in Microsoft Office Excel.</p>

10	<ul style="list-style-type: none"> ▪ Vaga2 ▪ Datum2 ▪ Vreme2 ▪ Masa2 	Scale number, Date, Time and Weight of the outgoing truck	Please refer to Item 9.
11	<ul style="list-style-type: none"> ▪ Neto_masa ▪ Jedinica 	Net weight (the difference between Masa1 and Masa2) and Unit	
12	<ul style="list-style-type: none"> ▪ Napomena 	Remark	
13	<ul style="list-style-type: none"> ▪ Obracunato 	Total waste calculated	In most cases, the values in this column are equal to those of Neto_masa. However, the values in this column can be equal to 0, for instance when the Description/type of waste (Item 8) is filed under "Usluzno merenje", i.e. when the PUC provides the service of weighing to a party that does not dispose of any waste at the landfill.
14	<ul style="list-style-type: none"> ▪ Nacin_merenja 	Type of weighing	<p><u>"Merenje sa poznatom tarom"</u> For some parties, including PUC Gradska Cistoca, the weight of the vehicles is pre-registered in order to facilitate the weighing process.</p> <p><u>"Drugo merenje"</u> For other trucks which are not pre-registered, the waste quantity is calculated as the difference between Masa1 and Masa2 (Items 9 and 10), the difference being thus equal to Neto_masa (Item 11).</p> <p><u>"Rucni upis"</u> In this case, weights are entered manually.</p>
15	<ul style="list-style-type: none"> ▪ Vagar 	Staff working at the weighbridge	
16	<ul style="list-style-type: none"> ▪ Objekat ▪ Izvestaj ▪ Odlaganje 	<i>Columns to be considered as irrelevant.</i>	

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- BrojOtpremnice
 - BrojNaloga
 - Izvezeno
 - Kopirano

Potential marginal inconsistencies may arise in the overall calculation of annual quantities of incoming waste, especially in periods when the weighbridge scale was not working during several hours.