City of Birmingham
A Walkable Community

MEMORANDUM

Department of Public Services

DATE: **June 19, 2015**

TO: **Joseph A. Valentine, City Manager**

FROM: **Lauren A. Wood, Director of Public Services**

SUBJECT: **DPS VEHICLE #86 AND #135 REPLACEMENT**

DPS vehicle #86 is a 1996 58,000 Gross Vehicle Weight (GVW) Volvo Dump Truck and DPS vehicle #135 is a 2000 Volvo 60,600 GVW Dump Truck that are in need of replacement due to their age and rapidly deteriorating condition. Both of these vehicles are used by the Department of Public Services (DPS) to carry out the duties of the Streets, Sewer and Water Department.

These two vehicles tend to be underutilized in our fleet. Trucks #86 and #135 will be replaced by one vehicle called a hook truck, see enclosed pictures. Truck #86 has only been used as a salt and plow truck since it was purchased new. Truck #135 has been used as a dump truck only meaning it is used to haul materials to and from job sites and haul snow from the downtown during snow events. The projected cost to replace both trucks is approximately $383,000.

A hook truck is a chassis that has several solutions for uplifting that are easily loaded and unloaded from the rear of the truck. This actually is four vehicles in one, allowing the ability to carry out multiple duties. The DPS feels that this would be a prime opportunity to purchase our first hook truck thereby eliminating one large dump truck from the fleet. This purchase would not reduce the number of plow trucks on the road.

The scoring system used for rating dump trucks has 6 categories. The following table illustrates the breakdown of the scoring system used as justification for the replacement of this vehicle.

Vehicle #86 is a 1996 58,000 GVW Volvo Dump Truck

Factor	Description	Points
Age	1 point each year of age.	18
Miles/Hours	1 point each 5,000 miles of usage.	9
Type of Service	5 points heavy construction work including snow removal.	5
Reliability	1 point in shop 1 time within a 3 month period.	1
M & R Costs	1 point maintenance and repair costs less than or equal to 20% of replacement costs.	1
Condition	3 points for Minor body damage, rust, weak operating system.	3
	Total points 28 or greater, needs priority replacement.	**37**

Vehicle #135 is a 2000 Volvo 60,600 GVW Dump Truck

Factor	Description	Points
Age	1 point each year of age.	15
Miles/Hours	1 point each 5,000 miles of usage.	8
Type of Service	5 points heavy construction work including snow removal.	5
Reliability	3 points in shop more than one time in 3 month period, 1 breakdown/road call within 3 month period.	1
M & R Costs	1 point maintenance and repair costs less than or equal to 20% of replacement costs.	1
Condition	3 points for Minor body damage, rust, weak operating system.	3
	Total points 28 or greater, needs priority replacement.	**33**

The Department of Public Services recommends replacing this vehicle with a 2016 Freightliner Tandem Axle 64,000 pound GVW Cassis up fitted with a Stellar Hooklift system complete with an underbody snow scraper, front plow, Henderson salt spreader and anti-ice system, 2 contractor grade 14' dumpsters, platform body, and dump body. This new truck will be a main line salt truck during a snow storm and will give us the ability to quickly convert to a dump truck after a snow storm to haul snow from downtown, the flatbed will give us the option to haul large items and equipment without using a trailer, and the roll off dumpsters will be used in our yard to house street sweepings and scrap metal. Once the order is placed for the replacement vehicle, it will take approximately 24-30 weeks for delivery.

The Rochester Hills Municipal Cooperative contract pricing is available for the 2016 Freightliner Tandem Axle 64,000 pound GVW chassis. This purchasing cooperative was spearheaded by 9 MITN members and has grown to 23 local communities offering special pricing on Freightliner chassis. Wolverine Freightliner Eastside is the exclusive dealer for this contract and was contacted for pricing. The price of this chassis including title and delivery is $104,521.00. National Joint Powers Alliance (NJPA) contract award #080114 pricing is available for the underbody snow scraper, front plow, Henderson salt spreader and anti-ice system. Knapheide Truck Equipment is the local dealer/up fitter for this contract and was contacted for pricing. The price of the equipment under the NJPA contract is $112,264.00. Knapheide Truck Equipment is the sole source Stellar dealer for Southeast Michigan and provided a price of $52,025.00 for the hooklift system, two (2) contractor grade 14' dumpsters, platform body, and dump body. The total expenditure for this vehicle and options is $266,860.00. Funds for this purchase are available in the Auto Equipment Fund, account #641.441.006-971.0100.

SUGGESTED RESOLUTION:
To approve the purchase of one (1) new 2016 Freightliner Tandem Axle 64,000 pound GVW chassis from Wolverine Freightliner Eastside, using Rochester Hills Municipal Cooperative contract pricing for $104,521.00. Further to approve the purchase of an underbody snow scraper, front plow, Henderson salt spreader and anti-ice system, 2 contractor grade 14' dumpsters, platform body, dump body and Stellar Hooklift system from Knapheide Truck Equipment utilizing National Joint Powers Alliance and sole source vendor pricing for $162,339.00. The total expenditure for this vehicle and options is $266,860.00. Funds for this purchase are available in the Auto Equipment Fund, account #641.441.006-971.0100.

Hook Lift with Dumpster

Hook Lift with Salt Spreader

Hook Lift with Flat Bed

Hook Lift with Dump Body