



North Beach Water District

General Manager's Report to Board of Commissioners

Date: 8/12/2013

Re: Dump Truck and Equipment Trailer for Backhoe

Commissioner Sheldon requested the General Manager investigate the acquisition of a Dump Truck and Equipment Trailer capable of transporting the District owned Komatsu WB 146-5 Backhoe. Below are the specifications for our Backhoe and recommended specifications for a truck and trailer.

Backhoe Specifications:

Transportation Length:	24'5"
Wheel Base:	7'2"
Overall Width:	7'9"
Transportation Height:	9'8"
Weight:	16,090 lbs.



Minimum Trailer Specifications:

Minimum GVWR ¹ :	30,000 lbs.
Minimum Length:	25'
Minimum Width:	8'6"



Minimum Dump Truck Specifications:

Minimum GCWR ² :	54,000 lbs.
Minimum Steer Axle GAWR ³ :	18,000 lbs.
Minimum Drive Tandem Axle GAWR:	40,000 lbs.
Minimum Horse Power:	350



¹ Gross Vehicle Weight Rating
² Gross Combined Weight Rating
³ Gross Axle Weight Rating

Estimated cost for a trailer:

New: \$ 24,000.00

Used: \$ 9,000.00

Estimated cost for a Dump Truck:

New: \$128,000.00 (2014 International SBA 6X4 w/14' 10/14 yd. Dump)

Used: \$ 60,000.00 (2005 Kenworth W900B w/16' 15/17 yd. Dump)

In order to operate trucks of this size our drivers would have to acquire [Class A Commercial Driver License \(CDL\)](#). There are [minimum training requirements](#) to qualify for a CDL. Our employees would have to successfully complete a training course at an approved [CDL training school](#) (\$ 4,200 two and one half weeks at Commercial Driver School Port Orchard Washington). After the training the employee will need to pass the CDL skills test administered by the Washington State Department of Licensing. There are several rules on medical certification and drug testing that our employees who need CDL will have to comply with.

In addition to the employee CDL requirements there are requirements that the District will need to comply with as a [CDL employer](#). Being a registered CDL employer will add a significant level of reporting and recordkeeping to our other duties. In addition we will be required to test our drivers randomly for drug use.

I recommend the District make plans to avoid conditions that will require the District to have our employees get a CDL.

The [WSDOL rules state](#) that if you drive a combination vehicle (truck and trailer) and the towed vehicle (trailer) weighs less than 10,001 lbs and the single vehicle (truck) weighs less than 26,001 lbs then you do not need a CDL to operate that combination.

I recommend that the District only operate with equipment that is below the CDL threshold.

Trucks:

Ford F550 w/3 yard dump

GVWR:	17,500/19,500 lbs
Steer Axle GAWR:	7,000 lbs
Drive Axle GAWR:	14,706 lbs
Horse Power:	Cummins 6.7L Turbo Diesel 300 hp

Ford 6.2L V8 316 hp

Ford 6.8L V10 362 hp

New - \$55,000 estimate from online research.

Used - \$30,000 estimate from online research.



Ford F650 w/5 yard dump

GVWR: 22,000/26,000 lbs
Steer Axle GAWR: 8,500/10,000 lbs
Drive Axle GAWR: 15,500/21,000 lbs
Horse Power: Cummins 6.7L Turbo Diesel 300 hp



Ford 6.8L V-10 362 hp
New - \$68,000 estimate from online research.
Used - \$40,000 estimate from online research.

Our backhoe is too large to trailer without CDL drivers and large trucks. We could trailer a mini excavator as long as the weight of the mini excavator and the trailer is less than 10,001 lbs.

A mini excavator with specifications similar to a Cat 303.5E CR would be very useful to the District. The Cat 303.5E CR's operating weight is 7,134 lbs.

The mini excavator would be a very versatile tool used to repair water main breaks, install new water mains, and clean the backwash settling ponds that will be constructed as part of the DWSRF Treatment Plant Improvements Project.

We would need to purchase a trailer that with a GVW of 10,000 lbs. The trailer with a 16' bed would need to weigh under 2,800 lbs. The image to the right is of a tilt trailer that would be adequate to carry a mini excavator. The total weight of the excavator and the trailer would be just under 10,000 lbs.

