



North Beach Water District

General Manager's Report to Board of Commissioners

Date: 3/18/2013

Re: Vermeer Trade-in for Vacuum Excavator



The District acquired a 1993 Vermeer V-4150A tractor outfitted with a Vermeer V-1650 Trencher and a Vermeer B500/600 Backhoe along with the purchase of Ocean Park Water Company. The Tractor has 533 hours of use recorded on its hour meter. The Vermeer tractor became obsolete when the District acquired the Kamatsu Backhoe in 2006. The condition of the tractor is

poor to fair. The tractor is fully functional but there is significant surface rust on the frame and major surface rust on the hydraulic cylinder rams. Many of the hydraulic hoses need to be replaced.

Similarly outfitted Vermeer V-4150A tractors with similar hours in fair to good condition are listed in equipment trader magazines for \$5,000 to \$12,000.

The general manager recommends that the Board of Commissioners declare the Vermeer tractor surplus machinery.

The general manager would like to trade the Vermeer Tractor in for a Vacuum Excavator. A Vacuum Excavator would be used to clean valve and meter boxes of mud and sand in a very fast and efficient manner. Along with saving time the Vacuum Excavator will leave the site looking neat and tidy. The Vacuum Excavator is also useful in locating buried utilities such as water mains and power cables without damaging them. The installation of posts or bollards will also be an added value for the Vacuum Excavator.

Vacuum Excavators range in size from small to very large. The District will use a vacuum excavator mostly for cleaning valve and meter boxes and line location. These uses will require a small versatile machine that can be operated by one person. For that reason the general manager is recommending the District considers a

small vacuum excavator. The Vermeer EV 150G and Ditch Witch FX 20 are comparable vacuum excavators in the size range that will meet the District's needs.

The general manager contacted Vermeer Northwest in Tacoma Washington and asked for a quote¹ on a new EV 150G less a trade in on the Vermeer V-4150A tractor. Vermeer offered a new EV 150G for \$27,730.00. Vermeer offered the District \$6,000.00 trade-in on the Vermeer V-4150A tractor and trailer. Including tax and licensing the cost of a new EV 150G will be \$23,529.94.

The general manager contacted Ditch Witch Northwest in Portland Oregon and asked for a quote² on a new Ditch Witch FX 20 less a trade in on the Vermeer V-4150A tractor. Ditch Witch offered a new FX 20 for \$25,374.22, Ditch Witch offered the District \$5,000.00 trade-in on the Vermeer V-4150A tractor. Including tax and license the cost for a new Ditch Witch FX 20 would be approximately \$22,068.41.

Ditch Witch Northwest in Portland also has a low hour (50 hrs.) used FX 20 Vacuum Excavator in stock. The general manager requested a quote³ Ditch Witch offered the used FX 20 at \$25,165.92 less a discount of \$4,500.00 and a \$5,000 trade-in on the Vermeer V415A tractor for that unit also. Including tax and license the cost for the used FX 20 would be approximately \$15,914.86

Recommended Motion:

"I move to declare the District's Vermeer V4150A Tractor surplus machinery and direct the general manager to purchase a used Ditch Witch FX 20 offered by Ditch Witch Northwest for \$19,665.92 less \$5,000.00 trade in for the Vermeer V4150A Tractor for a total of \$14,665.92 plus tax and license."

¹ See Attached Quote

² See Attached Quote

³ See Attached Quote

1994 VERMEER V4150

[Hide Main Picture](#)



Equipment Specifications

Year	1994
Manufacturer	VERMEER
Model	V4150
Price	US \$12,500
Location	Idaho
Serial Number	1VRF08201P1000251
Condition	Used

General Information

94 V4150 Vermeer Trencher rear steer 6 ft bar, 90,000

Detailed Description

Ice teeth Backhoe

Contact:
CENTRAL EQUIPMENT
 Tina
 Machine is located in:
 Idaho
 Phone: (888)493-4524

1995 VERMEER V4150

[Hide Main Picture](#)



Equipment Specifications

Year	1995
Manufacturer	VERMEER
Model	V4150
Price	US \$7,500
Location	Pensacola, Florida
Serial Number	1VPF08204S1000716
Condition	Used
Stock Number	GS
Hours	1,825

General Information

Diesel engine, with backhoe, running working unit, repaired two cylinders, and blade.



Buy similar items and view more at www.ironplanet.com or call 888-433-5426

Item #430490 - Vermeer V4150A Trencher



SOLD

Winning Bid: US \$4,600

Item Details:

- Features: Ride-On, 4x4, 68" Trencher Bar, 5' 4" Angle Blade, Backhoe Attachment, 12" Bucket, Deutz F3L 1011 Engine. The engine started and ran. The drivetrain engaged in forward and reverse. The hydraulic system was operational except the rear trencher bar slide is inoperable (the system has leaks).
- Meter Reading: 1,590 Hours
- Serial # : 1VRP082R1T10XXXXX
- Inspection Completed: 08/01/13

Shipping Details:

- Location: Texas (Harris County)
- Loading Dock Available: No
- Pickup Hours: 9-4 M-F
- You will need a copy of your IronPlanet Transportation Release to pick the item up. CALL 1 DAY PRIOR

NOTE: This item is offered "as-is, where-is" with No IronClad Assurance. IronPlanet claims no responsibility for the condition or description. This item does not include any protection offered by IronClad Assurance.

EV 150 - (Economy Vacuum Series®)

TWO-YEAR FACTORY WARRANTY

EV 150 150-Gallon (500 Liters)

- 25 HP Gas powered
- Able to vacuum-up all wet or dry material (no hazardous, toxic, or flammable)
- 33 feet one piece vacuum hose 3"
- Controls for engine, vacuum pump, high pressure water, mounted at operators station



Standard Features

- 150 gallon/1 cubic yard debris tank w/ hydraulic tilt
- Full open rear door with manual wheel locking system
- 3" Portal shut-off inside of Vacuum tank
- DOT Amber strobe w/ 2 halogen work lights

Vacuum Pump

- Positive displacement design rated at 580 cfm
- Capable of drawing 15" of Mercury
- Shaft and lobes manufactured as a single piece of steel (no key-way)

Filtration

- Filter System (wet or dry)
- Filtration cartridge for wet & dry applications that are removable & washable
- 44 square feet filtration media,

combined with 10-gallon water trap

- Wet or Dry industrial filters rated at 5:1 cloth ratio and grain loading of 30-g/acf using 0.5-micron silica dust emissions of .0060 g/acf (Filters down to .05 micron)

Water System

- 4000 psi @ 4 gpm high pressure water system.
- Belt driven water pump w/ electric clutch w/ on/off control and low water auto shut-down
- 40 gallon water capacity
- 50 foot of high pressure hose rated at 4000 psi
- Hose reel mounted to trailer
- 5 foot roto wand w/ control handle
- 3 foot variable nozzle wand w/ control handle for clean up

(Optional) Trailer

- "DEXTER" torsion axle rated @ 3,500 lb. with electric brakes.
- 2" ball hitch
- Jack stand with side crank handle
- Under coated to prevent corrosion

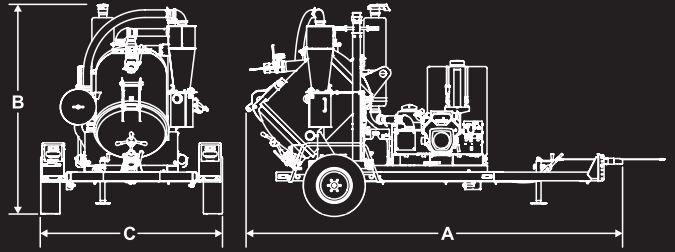
DITCH WITCH FX20 Vacuum Excavation System

The FX20 is ideal for a wide range of small projects and multiple short runs per day: small municipal projects such as valve box cleanout, commercial and residential debris cleanup and landscaping, exposing utility lines, posthole digging, and many other relatively small tasks. The 27-hp (20.1 kW) FX20 has the suction power of the larger FX30, yet it can be easily transported with a pickup truck.



KEY FEATURES

- (Photograph A) The skid-mounted FX20 can fit in the back of a pickup truck, on a flatbed trailer or a specially designed Ditch Witch® trailer; in many cases no CDL is required.
- (Photograph B) 150-gallon (568 L) vac tank is mounted permanently at a 45° angle, making the dumping cycle quick and easy.
- Outstanding suction power of 540 cfm (15.3 m³/min) in a compact, extremely durable package.
- Belt-driven blower makes the FX20 more reliable and easier to maintain.
- Exclusive non-contact water shutoff switch protects the water pump and eliminates the potential leaks of a float switch, which requires holes to be drilled in the side of the tank.
- Triple filtration system with a cyclone separator cleans the air before it ever reaches the filter, minimizing maintenance.
- Curbside operator's console is designed to make controls easily accessible; for custom applications, the console can be positioned on either side of the unit.
- The FX20 is equipped with a 27-hp (20.1 kW) Kohler® gas engine that is renowned for its reliability and ease of maintenance.



FX20 SPECIFICATIONS

DIMENSIONS	U.S.	METRIC
A LENGTH	174 IN	4.42 M
C WIDTH	86 IN	2.18 M
B HEIGHT	93 IN	2.36 M
WEIGHT		
DRY WEIGHT	2576 LB	1168 KG
VAC TANK FULL, WATER TANK FULL	4233 LB	1920 KG
VAC TANK FULL, WATER TANK EMPTY	3583 LB	1625 KG
WATER TANK FULL, VAC TANK EMPTY	3160 LB	1433 KG
TRAILER GVWR	4500 LB	2041 KG
TONGUE WEIGHT		
EMPTY	406 LB	184 KG
VAC TANK FULL, WATER TANK FULL	563 LB	255 KG
VAC TANK FULL, WATER TANK EMPTY	303 LB	137 KG
WATER TANK FULL, VAC TANK EMPTY	660 LB	299 KG
AXLE RATING (EACH)	4500 LB	2041 KG
DIMENSIONS (SKID PACKAGE)		
LENGTH	109 IN	2.77 M
WIDTH	63 IN	1.6 M
HEIGHT	74 IN	1.88 M
WEIGHT		
DRY WEIGHT	1594 LB	723 KG
VAC TANK FULL, WATER TANK FULL	3374 LB	1530 KG
VAC TANK FULL, WATER TANK EMPTY	2724 LB	1236 KG
WATER TANK FULL, VAC TANK EMPTY	2244 LB	1018 KG
POWER		
ENGINE TYPE	KOHLER CH740S	
FUEL TYPE	UNLEADED GASOLINE	
COOLING MEDIUM	AIR	
INJECTION	CARBURETOR	
ASPIRATION	NATURAL	
NUMBER OF CYLINDERS	2	
DISPLACEMENT	44 IN ³	725 ML
BORE	3.27 IN	83 MM
STROKE	2.64 IN	67 MM
MANUFACTURER'S GROSS POWER RATING (SAE J1995)	N/A	
MANUFACTURER'S GROSS POWER RATING (SAE J1940)	27 HP	20.1 KW
ESTIMATED NET POWER RATING (SAE J1349)	N/A	
RATED SPEED	3600 RPM	
EMISSIONS COMPLIANCE	N/A	
FUEL TANK CAPACITY	10 GAL	38 L

VACUUM SYSTEM	U.S.	METRIC
BLOWER DISPLACEMENT	540 CFM	15.3 M ³ /MIN
DRIVE TYPE	BELT	
MAXIMUM VACUUM	15 IN HG	381 MM HG
HOSE SIZE (STANDARD)	3 IN	76 MM
VACUUM TANK CAPACITY	150 GAL	568 L
FULL-OPENING REAR DOOR DIAMETER	32 IN	813 MM
OUTLET VALVE SIZE	4 IN	102 MM
TANK INLET VALVE SIZE	4 IN	102 MM
TANK DUMP ANGLE (MAX/FIXED)	45°	
PRIMARY SHUTOFF (BALL TYPE)	4 IN	102 MM
FILTER TYPE	WASHABLE POLYESTER	
FILTER AREA	74 FT ²	6.9 M ²
WATER TRAP CAPACITY	4.5 GAL	17 L
SUCTION HOSE 4 IN (2 SECTIONS)	N/A	
SUCTION HOSE 3 IN (2 SECTIONS)	25 FT	7.6 M
WATER SYSTEM		
WATER TANK CAPACITY	80 GAL	303 L
WATER PUMP FLOW		
WATER PUMP FLOW	2.6 GPM	9.8 L/MIN
WATER PUMP PRESSURE (MAX)	3000 PSI	207 BAR
PUMP CLUTCH	ELECTRIC WITH AUTO DECLUTCH AND LOW WATER SHUT DOWN FEATURE	
HOSE LENGTH	50 FT	15.3 M
HYDRAULIC SYSTEM		
12V DC POWER UNIT	N/A	
RESERVOIR SIZE	N/A	
PRESSURE	N/A	
TANK DUMP CYLINDERS (1)	N/A	
TANK DUMP CYLINDERS (2)	N/A	
FLOW RATE	N/A	
BATTERY		
GROUP	12V	
SAE RESERVE CAPACITY RATING	340 AMPS	
SAE COLD CRANK RATING @ 0° F (-18° C)	41 MIN	
NOISE LEVEL		
SOUND POWER	110 DBA	
SOUND PRESSURE AT OPERATOR EAR 10 FT (3 M) BEHIND VACUUM TANK	84 DBA	
TOOLS		
	WASH WAND; 3" LIGHTWEIGHT SUCTION WAND	
OTHER		
	N/A	

DITCH WITCH NORTHWEST

7909 N. UPLAND DRIVE
PORTLAND, OR 97203-6140
Phone 503-286-6400
Fax 503-286-6111

Valued Customer / Washington
State

Quote: 50062156
Ext. Ref.: Bill Neal
Description: North Beach Water District
Date: 05/03/2013
Salesperson: Les Staples
Mobile Phone: 3606091610
Email: lstaples@ditchwitchnw.com

Price Quote

Quote valid for: 30 days, until 05/30/2013

FX20 Vacuum System

The FX20 is a compact but powerful vacuum excavator, used for a variety of clean up applications as well as a powerful "soft" excavation machine. The basic unit includes the following: Kohler engine CH740S (27 hp gross), 150 gallon fluid excavator tank, 80 gallon water tank,, 5' - Suction tool, 3" suction hose - 25' and wash wand.

<u>Qty</u>	<u>Part Number</u>	<u>Description</u>
1	FX20	FX20 Vacuum System
1	FX20-2	Base Unit: 150gal w/80 gal water tank
1	150-2023	2.6 GPM TURBO SPRAY NOZZLE
1	315-721	3" SUCTION HOSE-25'-M/F
1	S4S	S4S Single Axle Trailer
1	025-1007	S4S TRAILER ASS'Y
1	FNDR-INST	Fender Kit Installation Charge

Equipment Subtotal	\$	25,374.22
Trade In	\$	5,000.00-
Subtotal Before Tax	\$	20,374.22
Total Tax	\$	0.00
Total Amount	\$	20,374.22
		U.S. Dollars

This Quote is for a NEW UNIT.
SALES TAX NOT ADDED IN.

DITCH WITCH NORTHWEST

7909 N. UPLAND DRIVE
PORTLAND, OR 97203-6140
Phone 503-286-6400
Fax 503-286-6111

Valued Customer / Washington
State

Quote: 50062156
Ext. Ref.: Bill Neal
Description: North Beach Water District
Date: 05/03/2013
Salesperson: Les Staples
Mobile Phone: 3606091610
Email: lstaples@ditchwitchnw.com

Price Quote

Quote valid for: 30 days, until 05/30/2013

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1	S4S	S4S Single Axle Trailer
1	025-1007	S4S TRAILER ASS'Y
1	FNDR-INST	Fender Kit Installation Charge

Equipment Subtotal	\$	24,165.92
Trade In	\$	5,000.00-
Discount	\$	4,500.00-
Subtotal Before Tax	\$	14,665.92
Total Tax	\$	0.00
Total Amount	\$	14,665.92
		U.S. Dollars

** This Quote has an additional discount of \$4,500.00 for the
50 hours on the unit.**
SALES TAX NOT ADDED IN.