



WELL INSTALLATION DIAGRAM

WELL NO.: MW-199A

PROJECT: DDMT - Main Installation New Plume Wells

PROJECT NUMBER: 3202-019

SITE LOCATION: MI

e2M PROJECT MANAGER: T. Holmes

e2M FIELD STAFF: E. Van Schaik

DATE COMPLETED: 8/7/2006

WELL LOCATION: 500 feet east of building 835 and 420 feet north of Memphis Depot Pky.

NORTHING: 277756.4

EASTING: 802573.517

GROUND SURFACE ELEVATION (ft, msl): 301.84

TOP OF CASING ELEVATION (ft, msl): 301.53

TOP OF SCREEN ELEVATION (ft, msl): 157.5

DRILLING CO.: Prosonic

DRILLING METHOD: Sonic

BOREHOLE DIAMETER (in): 6

SURFACE COMPLETION: Flush Mount

BOLLARDS: No

WELL DIAMETER (in): 2

TYPE OF SCREEN/RISER MATERIAL: PVC Schedule 40

SLOT SIZE OF SCREEN: 0.010

TYPE OF FILTER PACK: Sand

GRADATION OF FILTER PACK: 10-20

QUANTITY OF FILTER PACK: 11-50lb. Bags

TYPE OF BENTONITE IN SEAL: 3/8" Shur Plug Chips

QUANTITY OF BENTONITE IN SEAL: 2-50lb. Bag

TYPE OF GROUT: Portland Type I

QUANTITY OF GROUT: 9-94lb. Bags

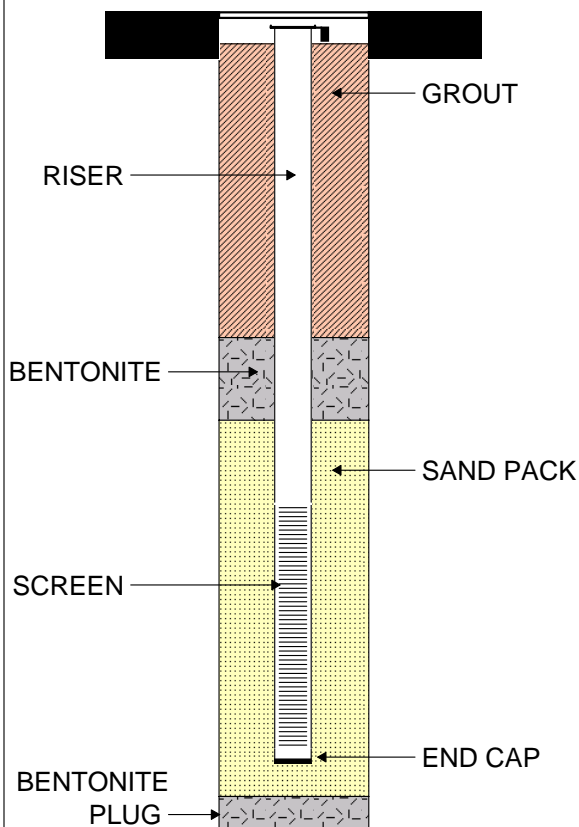
DEVELOPMENT METHOD: Grundfos RediFlow II

DATE DEVELOPED: 8/14/06

DEPTH TO WATER (ft.btoc): 108.52-ft. - 8/14/06

NOTES: Bottom 10.6 feet of boring backfilled with bentonite before installing well. 100 feet of steel pipe left in hole 14 - 114 feet. Grouted in.

**Well
Completion
(Not to Scale)**



**Well
Details**

DIMENSIONS OF CONCRETE PAD: 3-ft. by 3-ft.

LENGTH OF RISER (ft): 144.0

DEPTH TO TOP OF BENTONITE (ft, bgs): 134

DEPTH TO TOP OF SAND PACK (ft, bgs): 139

LENGTH OF SCREEN (ft): 15

LENGTH OF END CAP: 0.45-ft

TOTAL DEPTH OF WELL (ft, btoc): 159.4

DEPTH TO TOP OF BACKFILL (ft, bgs): 160.4

TOTAL DEPTH OF BORING (ft, bgs): 171

Prepared by: WTR

Date: 12/14/06

Checked by: KMS

Date: 12/14/06