MW-68

Facility/Project Name: Memphis Depot	Local Grid Location of Well: ____ ☐ N. ☐ S. ____ ft. ☐ E. ☐ W.	Well Number: MW-68
Facility License, Permit or Monitoring Number: 49-321	Grid Origin Location: Lat. ____ Long. ____ or	Date Well Installed (Start): 2/24/00
Type of Protective Cover: 8" dia. bolton — Above-Ground ☐ Flush-To-Ground ☒	St. Plane ____ ft. N, ____ ft. E.	Date Well Installed (Completed): 2/25/00
Well Distance From Waste/Source Boundary	Section Location of Waste/Source: ___ ¼ of ___ ¼ of Sec. ___ T. ___ R. ___ ☐ E ☐ W	Well Installed By: (Person's Name & Firm) Jean Crawford
Maximum Depth of Frost Penetration (estimated)	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☒ Downgradient n ☐ Not Known	Tri State

Note: Use top of casing (TOC) for all depth measurements.

A. Protective casing, top elevation ________ m. MSL
B. Well casing, top elevation ________ m. MSL
C. Land surface elevation ________ m. MSL
D. Surface seal, bottom ______ m. TOC or ______ m. MSL

16. USCS classification of soil near screen: GP ☐ GM ☐ GC ☐ GW ☐ SW ☒ SP ☐ SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐ Bedrock ☐

17. Sieve analysis attached? ☐ Yes ☒ No

18. Drilling method used: Rotary ☐ Hollow Stem Auger ☒ ________ Other ☐

19. Drilling fluid used: Water ☐ Air ☐ Drilling Mud ☐ None ☒

20. Drilling additives used? ☐ Yes ☒ No
Describe ________

21. Source of water (attach analysis): ________

E. Secondary filter, top ______ m. TOC or ______ m. MSL
F. Bentonite seal, top 64.3 m. TOC or ______ m. MSL
G. Secondary filter, top ______ m. TOC or ______ m. MSL
H. Primary filter, top 67.8 m. TOC or ______ m. MSL
I. Screen joint, top 72.5 m. TOC or ______ m. MSL
J. Well bottom 83 m. TOC or ______ m. MSL
K. Filter pack, bottom 83 m. TOC or ______ m. MSL
L. Borehole, bottom 83' m. TOC or ______ m. MSL
M. Borehole, diameter 6" mm.
N. O.D. well casing 2" mm.
O. I.D. well casing 2 1/4" mm.
P. 24-hr water level after completion ______ m. TOC or ______ m. MSL

1. Cap and lock? ☒ Yes ☐ No
2. Protective posts? ☐ Yes ☒ No
3. Protective casing:
a. Inside diameter: ________ mm.
b. Length: ________ m.
4. Drainage port(s) ☐ Yes ☒ No
5. Surface seal: Gravel blanket ☐
a. Cap Bentonite ☐ Concrete ☒ ________ Other ☐
b. Annular space seal: Bentonite ☐ Cement ☒ ________ Other ☐
6. Material between well casing and protective casing: Bentonite ☐ Cement ☐ ________ Other ☐
7. Annular space seal: a. Granular Bentonite ☐
b. ____ Lbs/gal mud weight .. Bentonite-sand slurry ☐
c. ____ Lbs/gal mud weight ____ Bentonite slurry ☐
d. 4.5 % Bentonite ____ Bentonite-cement grout ☒
e. 11.5 ft³ volume added for any of the above
f. How installed: Tremie ☐ Tremie pumped ☒ Gravity ☐
8. Centralizers ☐ Yes ☒ No
9. Secondary Filter ☐ Yes ☒ No
a. Volume added ______ m³ ________ Bags/Size
10. Bentonite seal: a. Bentonite granules ☐
b. ☒ ¼in. ☐ ⅜in. ☐ ½in. Bentonite pellets ☒
c. ________ Other ☐
11. Secondary Filter ☐ Yes ☒ No
a. Volume added ______ m³ ________ Bags/Size
12. Filter pack material: Manufacturer, product name & mesh size
a. 4 Rivers 10-20
b. Volume added 3 ft³ 5/50lb Bags/Size
13. Well casing: Flush threaded PVC schedule 40 ☒
Flush threaded PVC schedule 80 ☐
________ Other ☐
14. Screen material: PVC
a. Screen type: Factory cut ☒ Continuous slot ☐ ________ Other ☐
b. Manufacturer CMSS
c. Slot size: 0.010 in.
d. Slotted length: ________ m.
15. Backfill material (below filter pack): None ☒ Other ☐