

EM 1110-1-4000

1 Nov 98

Facility/Project Name Memphis Dept./Dugnafield	Local Grid Location of Well S. E. N. W.	Well Number MW-70
Facility License/Permit or Monitoring Number 92-221-112180	Grid Origin Location Lat. _____ Long. _____	Date Well Installed (Start) 1/12/98
Type of Protection Cover? Above-ground <input checked="" type="checkbox"/> Flush-To-Ground <input type="checkbox"/>	St. Plane _____ N. S. E.	Date Well Installed (Completed) 1/12/98
Well Distance From Waste/Source Boundary 0'	% of % of Sec. T. L. E.	Well Installed By: (Person's Name & Firm) Eilen Baker - TCEC - X-1000
Maximum Depth of Frost Penetration (estimated) 0'	Location of Well Relative to Waste/Source 1. Upgradient <input type="checkbox"/> 2. Downgradient <input type="checkbox"/> 3. Side gradient <input type="checkbox"/> 4. Not known <input type="checkbox"/>	
<p>Note: Use top of casing (TOC) for all depth measurements.</p> <p>A. Protective casing, top elevation _____ m. MSL B. Well casing, top elevation _____ m. Above ground C. Land surface elevation _____ m. MSL D. Surface seal, bottom _____ m. TOC or _____ m. MSL</p>		
<p>16. USCS classification of soil near screen: GP <input type="checkbox"/> GL <input type="checkbox"/> CL <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SH <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> Q <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/></p> <p>17. Slope analysis attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>18. Drilling method used: Rotary <input type="checkbox"/> Hollow Stem Auger <input checked="" type="checkbox"/> Other <input type="checkbox"/></p> <p>19. Drilling fluid used: Water <input type="checkbox"/> Air <input type="checkbox"/> Drilling Mud <input type="checkbox"/> None <input checked="" type="checkbox"/></p> <p>20. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____</p> <p>21. Source of water (attach analysis): Dugn Field (for decon. + hydration)</p>		
<p>1. Cap and lock? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 2. Protective paste? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 3. Protective coating? a. Inside diameter: _____ mm. b. Length: _____ m. 4. Drainage port(s)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 5. Surface seal? a. Cap _____ b. Annular space seal: i. Granular bentonite <input type="checkbox"/> ii. lbs/gal mud weight...Bentonite-sand slurry <input type="checkbox"/> iii. lbs/gal mud weight _____ Bentonite slurry <input type="checkbox"/> iv. _____ x Bentonite _____ Bentonite-cement grout <input type="checkbox"/> v. _____ m³ volume added for any of the above <input type="checkbox"/> vi. New installed: <input type="checkbox"/> Tramia <input type="checkbox"/> Tramia pumped <input type="checkbox"/> Gravity <input type="checkbox"/> vii. _____ 6. Material between well casing and protective casing: i. Bentonite <input type="checkbox"/> ii. Cement <input type="checkbox"/> iii. Other <input type="checkbox"/></p> <p>7. Annular space seal: a. Granular bentonite <input type="checkbox"/> b. lbs/gal mud weight...Bentonite-sand slurry <input type="checkbox"/> c. lbs/gal mud weight _____ Bentonite slurry <input type="checkbox"/> d. _____ x Bentonite _____ Bentonite-cement grout <input type="checkbox"/> e. _____ m³ volume added for any of the above <input type="checkbox"/> f. New installed: <input type="checkbox"/> Tramia <input type="checkbox"/> Tramia pumped <input type="checkbox"/> Gravity <input type="checkbox"/> g. _____ 8. Centralizers <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 9. Secondary filter <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No a. Volume added _____ bags/Slice 10. Bentonite seal: a. Bentonite granules <input type="checkbox"/> b. 1/4" <input type="checkbox"/> 1/2" <input type="checkbox"/> 1/4" <input type="checkbox"/> 1/8" <input type="checkbox"/> Bentonite pellets <input type="checkbox"/> c. _____ d. Other <input type="checkbox"/> 11. Secondary filter <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No a. Volume added _____ bags/Slice 12. Filter pack material: Manufacturer, product name & mesh size a. _____ b. Volume added _____ bags/Slice 13. Well casing: Flush threaded PVC schedule 40 <input type="checkbox"/> Flush threaded PVC schedule 80 <input type="checkbox"/> c. Other <input type="checkbox"/> 14. Screen material: PVC a. Screen type: i. Factory cut <input type="checkbox"/> Continuous slot <input type="checkbox"/> ii. Other <input type="checkbox"/> b. Manufacturer: _____ c. Slot size: _____ in. d. Slotted length: _____ m. 15. Backfill material (below filter pack): None <input type="checkbox"/> Bentonite <input type="checkbox"/> Other <input type="checkbox"/></p>		
<p>E. Secondary filter, top 14.4' m. TOC or _____ m. MSL F. Bentonite seal, top 14.9' m. TOC or _____ m. MSL G. Secondary filter, top 14.4' m. TOC or _____ m. MSL H. Primary filter, top 7.8.3' m. TOC or _____ m. MSL I. Screen joint, top 5.3' m. TOC or _____ m. MSL J. Well bottom 93.5' (6' cau) m. TOC or _____ m. MSL K. Filter pack, bottom 93.5' m. TOC or _____ m. MSL L. Borehole, bottom 95.5' m. TOC or _____ m. MSL M. Borehole, diameter 3" mm. N. O.D. well casing 3" mm. O. I.D. well casing _____ mm. P. 24-hr water level after completion 81.43' m. TOC or _____ m. MSL</p>		

Figure 5-3. Schematic construction diagram of monitoring well NORCROSS WHO 04:17PM 08 AUG 15 2000