

MONITORING WELL CONSTRUCTION DIAGRAM (STICK-UP)

Facility/Project Name Former Cliff Dow Site	Facility Location/Address 100 Wright St. / Lakeshore Blvd. Marquette, Mi	Client Name City of Marquette
Well Name GSI-800A		Date Well Installed 9/21/2009
TriMedia Project Number 99-059		Drill Crew DDM, TJM
Type of Well Water Table Observation Well <input checked="" type="checkbox"/> Piezometer <input type="checkbox"/> Other <input type="checkbox"/>	Location of Well from Source <input type="checkbox"/> Upgradient <input type="checkbox"/> Sidegradient <input checked="" type="checkbox"/> Downgradient <input type="checkbox"/> Not Known	Geologist/Technician DDM
		Comments

<p>A. Well Casing (top elevation) <u>606.497</u> ft</p> <p>B. Land Surface Elevation <u>602.611</u> ft</p> <p>C. Surface Seal (bottom) <u>1</u> ft</p> <p>D. Annular Seal (top) <u>None</u> ft</p> <p>E. Bentonite Seal (top) <u>1</u> ft</p> <p>F. Fine Sand (top) <u>None</u> ft</p> <p>G. Filter Pack (top) <u>6.5</u> ft</p> <p>H. Screen Joint (top) <u>9.13</u> ft</p> <p>I. Well Bottom <u>14.13</u> ft</p> <p>J. Filter Pack (bottom) <u>14.2</u> ft</p> <p>K. Borehole Bottom <u>14.2</u> ft</p>		<p>1 Cap and Lock <u>X</u> Yes _____ No</p> <p>2 Protective Pipe <u>X</u> Yes _____ No Length 5' _____ ft Material _____ Steel <u>X</u> _____ Additional Protection _____ Other _____ _____ Yes _____ No</p> <p>3 Surface Seal Bentonite _____ _____ Concrete <u>X</u> _____ _____ Other _____</p> <p>4 Material between well casing and protective pipe _____ Bentonite _____ _____ Annual Space Seal _____ _____ None _____ Other _____</p> <p>5 Annular Space Seal Bentonite Chips _____ _____ Bentonite/Cuttings Mixture _____ _____ None _____ Other _____ Insulation: Tremie _____ Gravity _____</p> <p>6 Bentonite Seal Bentonite Chips <u>X</u> _____ _____ 1/4 inch Bentonite Pellets _____ _____ <u>X</u> _____ 3/8 inch</p> <p>7 Fine Sand Material Manuf., Prod. Name, and Mesh Size _____ None _____</p> <p>8 Filter Pack Material Manuf., Prod. Name, and Mesh Size _____ K&E Well Gravel 20/40 _____</p> <p>9 Well Casing Material <u>Sch 40 pvc</u> _____ _____ Flush Thread <u>X</u> _____ _____ Other _____</p> <p>10 Screen Material Screen type: Factory Cut <u>X</u> _____ _____ Sch 40 pvc _____ Other _____ _____ Slot Size <u>0.1</u> _____ _____ Slot Length 5' _____</p> <p>11 Backfill Material (below filter pack) _____ None <u>X</u> _____ _____ Other _____</p>
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Borehole Data	
Borehole Diameter	<u>2.25</u> in
O.D. Well Casing	<u>0.8</u> in
I.D. Well Casing	<u>0.75</u> in

DDM	<i>Geologist/Technician</i>
TAG	<i>Reviewed</i>



