## ILLINOIS EPA MONITOR WELL PLUGGING AND ABANDONMENT PROCEDURES

<table>
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<th>Well Construction</th>
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| **I-A** | 1. Cut casing off at desired depth.  
2. Mix neat cement slurry (5 gal. water per 94 lb. bag cement).  
3. Insert tremi pipe (1" i.d. pvc) into well and extend to bottom.  
4. Slowly pump slurry under low pressure through tremi pipe.  
5. Slowly withdraw tremi pipe - making sure bottom of pipe remains below pure slurry.  
6. Continue slow pumping until all formation water and the watery slurry mix is displaced from top of casing. |
| **I-B** | 1. Knock out and remove thin surface concrete plug, if present.  
2. Re-auger entire length of well.  
3. Remove well casing from re-augured borehole.  
4. Mix neat cement slurry (5 gal. water per 94 lb. bag cement).  
5. Insert tremi pipe (1" i.d. pvc) into augers and extend to bottom.  
6. Slowly pump slurry under low pressure through tremi pipe.  
7. Continue slow pumping until all formation water and the water slurry mix is displaced from top of casing.  
8. Slowly withdraw tremi pipe - making sure bottom of pipe remains below pure slurry.  
9. Pull a flight of augers (5" if in unstable materials and hole collapse is likely or 10" if in competent material and collapse is unlikely).  
10. Top off cement slurry after each flight is removed. |
| **I-C** | 1. Follow procedures in I-A. |
| **II-A** | 1. Cut casing off at desired depth.  
2. Mix neat cement slurry (5 gal. water per 94 lb. bag cement).  
3. Insert tremi-pipe (1" i.d. pvc) into well and extend to bottom.  
4. Slowly pump slurry under low pressure through tremi pipe.  
5. Slowly withdraw pipe making sure bottom of pipe remains below pure slurry.  
6. Continue slow pumping until all formation water and the watery slurry mix is displaced from top of casing. |

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Well Plugging Procedures (revised 02/06/02)