

Indian Health Service Custom Training Course
May 3-6, 2010
Bunker Hills Activity Center – Bunker Hills Regional Park
Andover, Minnesota

Monday, May 3

8:00 – 8:30 a.m.	Registration
8:30 a.m.	Welcome (Butcher) Explanation of Format (Butcher/Renner) Introduction of Participants
9:00 – 11:45 a.m.	Hydrogeology 101 (Indoor – Maslansky)
10:15 a.m.	Break
11:45 a.m. – 1:00 p.m.	Lunch Break
1:00 – 2:15 p.m.	Well Construction Methods (Indoor – Renner)
2:15 – 2:30 p.m.	Break and Travel to Drill Site
2:30 – 3:50 p.m.	Drilling Demonstration (Outdoor – Renner) Rig siting Preparatory activities Mixing bentonite Sampling techniques
3:50 – 4:00 p.m.	Travel to Classroom
4:00-4:30 p.m.	Summary and Question and Answer Session
4:30-4:45 p.m.	Adjourn for the Day

Tuesday, May 4

8:00 -9:15 a.m.	Well Inspection Guidelines and Use of GPS (Indoor - Steve Bennett/Alan Epp)
9:15 – 9:25 a.m.	Travel to Well Site

9:25 – 10:25 a.m.	Mock Inspection/GPS (Outdoor – Bennett/Epp)
10:25 -10:40 a.m.	Return to Classroom and Break
10:40 -11:45 a.m.	Casing Selection (Indoor – Renner)
11:45 a.m. – 1:00 p.m.	Lunch Break
1:00 – 2:30 p.m.	Well Design (Indoor – Kill)
2:30 p.m.	Break and Travel to Drill Site
2:45 p.m.	Drilling Demo and Setting of Screen and Casing (Outdoors)
4:45 p.m.	Adjourn

Wednesday, May 5

8:00 – 10:00 a.m.	Aquifer Analysis (Indoor – Maslansky)
10:00 a.m.	Break
10:15 – 11:45 a.m.	Well Sealing (Indoor – Renner)
11:45 a.m. – 1:15 p.m.	Lunch
1:15 p.m.	Well Sealing and Pump Test (Outdoor – Renner/Kill/Maslansky)
3:15 p.m.	Break and Return to Class
3:30 p.m.	Use of Data Loggers and Review of Pump Test Data <ul style="list-style-type: none">• Mechanical Hardware in the Field – Renner• Geologic and Hydraulic Impact of Pump Tests and Sustainability – Maslansky• Pump Test Results (from site) and How They Affect Design – Kill
4:45 p.m.	Adjourn

Thursday, May 6

8:00 -11:00 a.m.	Water Quality and Well Rehabilitation (Indoor - Hanson)
9:45 - 10:00 a.m.	Break
11:00 a.m. - 11:30 a.m.	Down-hole Cameras (Indoor - Renner)
11:30 a.m. - 12:45 p.m.	Lunch
12:45 - 1:15 p.m.	Well Logging Explanation (Indoor - Renner/Bloomgren)
1:15 - 1:30 p.m.	Break and Travel to Well Logging Site (Outdoor - Bloomgren)
1:30 -2:30 p.m.	Well Logging Demo
2:30-2:45 p.m.	Return to Classroom and Break
2:45 - 3:15 p.m.	Interpreting of Logs (Bloomgren, et al.)
3:15 p.m.	Summary Question and Answer Period (All)
3:45 p.m.	Awarding of Certificates
	Adjourn