## APPENDIX D: EXAMPLE GARP DETERMINATION FIELD FORM

The following is an example of what a field form might look like for the purposes of the Stage 1 screening and assessment. Actual fields for data collection may vary according to the needs of the health authority office.

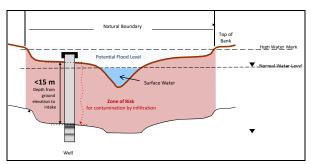
WATER SYSTEM NAME:  WELL NAME:  B.C. MoE Well Identification Plate Number:  B.C. MoE Aquifer:  / none / unknown Local Aquifer Name:	
Well Log: Examined Attached NA Site Sanitary Survey Conducted	Verbal / Measured
LATitude: "N, LONGitude: "W" *W	
Well Depth	

## WELL #12345 Trout Creek Road Sketch the well location and proximity to

Sketch the well location and proximity to roads, buildings, waterways, sources of contamination, etc. Distances may be estimated in feet or metres or paced off.

**Stage 1: Hazard Screening and Assessment** 

	SCREENING		ASSESSMENT		
HAZARDS Water Supply System Well	NOT PRESENT	PRESENT (Complete Assessment)	AT RISK (Water source potentially GARP)	AT LOW RISK	NOTES
A. Water Quality Results					
A1: Exhibits recurring presence of total coliform bacteria, fecal coliform bacteria, or <i>Escherichia coli</i> ( <i>E. coli</i> ).					
A2: Has reported intermittent turbidity or has a history of consistent turbidity greater than 1 NTU.					
B. Well Location					
B1: Situated inside setback distances from possible sources of contamination as per section 8 of the HHR.					
B2: Has an intake depth <15 m below ground surface that is located within a natural boundary of surface water or a flood prone area. (Fig 1)					
B3: Has an intake depth between the high-water mark and surface water bottom (or < 15 m below the normal water level), and located within, or less than 150 m from the natural boundary of any surface water. (Fig 2)					
B4: Located within 300 m of a source of probable enteric viral contamination without a barrier to viral transport.					
C. Well Construction					
C1: Does not meet GWPR (Part 3 Div. 3) for surface sealing.					
C2: Does not meet GWPR (Part 4) and WSA (section 54) for well caps and covers					
C3: Does not meet GWPR (section 63) and DWPA (Section 16) for floodproofing.					
C4: Does not meet GWPR (Part 3 and Part 7) for wellhead protection.					
D. Aquifer Type and Setting					
D1: Has an intake depth <15 m below ground surface.					
D2: Is situated in a highly vulnerable, unconfined, unconsolidated or fractured bedrock aquifer.					
D3: Is completed in a karst bedrock aquifer, regardless of depth.					



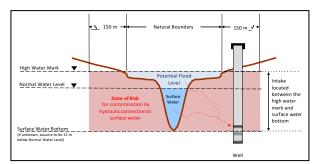


Figure 1: Hazard B2, Flood Risk

Figure 2: Hazard B3, Connection to Surface Water

## **Stage 2: GARP Determination**

- At Risk (GARP) At Risk (GARP-viruses only) At Low Risk
- If "at risk" the water supplier should undertake one or more mitigation measures (see options below).
- If "at risk" because information is unavailable or inconclusive for any hazards in the checklist, consider moving to Level 2 or 3 investigation.
- If "at low risk", indicate only "Move to Stage 4: Long-term Monitoring" below.

## Stage 3: Risk Mitigation

Comments:

Reco	ommended options:
	Treatment to meet provincial drinking water objectives  Treatment to meet only the provincial drinking water objectives for viruses  Provide alternate source of water  Well Alteration / correct significant deficiencies in well construction. <sup>17</sup> Relocate the well  Eliminate source(s) of contamination  Level 2 or 3 investigation  Move to Stage 4 Long-term Monitoring  Other

Completed by:	DATE:

<sup>&</sup>lt;sup>17</sup> Deficiencies in well construction related to the Ground Water Protection Regulation must be addressed.