MJW TECHNICAL SERVICES

Rev 1 10/18/15

Instrument Field Response Check Log

1. **Instrument Information**[1]
   Ratemeter: Make/Model: Ludlum 2241-2 Serial No. 206078 Cal. Due Date: 09/01/16
   Detector 1: Make/Model: Ludlum 44-10 Serial No. PR112642
   Bicron MicroRem Meter: Serial No. _____ Cal. Due Date: _____

2. **Check Source Information:**
   Source 1 Isotope: Th232 Serial No.: 111 Activity: <0.1 units: nCi Assay Date: 12/30/10
   Response Acceptance Range (+/-20%): uRem/hr +20% _____ uRem/hr -20% _____ net cpm + 20% 53798 net cpm -20% 35866
   Source 2 Isotope: Cs137 Serial No.: 119E23-12 Activity: 0.02 units: nCi Assay Date: NA
   Response Acceptance Range (+/-20%): uRem/hr +20% _____ uRem/hr -20% _____ net cpm + 20% 13273 net cpm -20% 8899

3. **Technician/Worker Performing Checks:**
   Name: J Edwards Title: RCT Date: 12/17/15 Time: 0815

4. **Site or Location:** Site/Job: Area 5.5-5.6 Location Description: woods
   GPS Coordinates (when required): X-Coord: _____ Y-Coord: _____

	Instrument Field Response[2]				Use Acceptance Criteria					Remarks
Meter	Bkg Cnt Time	Bkg Counts (cpm) or uRem/hr)	Source Cnt Time	Source Response (gross cpm or uRem/hr)	+/- 20% source gross cpm or uRem/hr (Y/N)	Inst. Calib. current (Y/N)	Battery Check (Y/N)	Time Of check	Ambient Temp. (°F)	Initials and Comments (add'l Info: inst. Condition, etc.)
Ratemeter	1 min	9274 cpm	1 min	44808 cpm	Y	Y	Y	0819	49.4°	Th-232 JE
Ratemeter	"	" "	1 min	11109 cpm	Y	Y	Y	0823	49.4°	Cs-137 JE
Ratemeter	1 min	9433 cpm	1 min	46391 cpm	Y	Y	Y	1033	50.1°	Th-232 JE
Ratemeter	"	"	1 min	11440 cpm	Y	Y	Y	1040	50.1°	Cs-137 JE
Ratemeter	1 min	7864 cpm	1 min	44433 cpm	Y	Y	Y	1400	43.5°	Th-232 TB
Ratemeter	"	"	1 min	9743 cpm	Y	Y	Y	1400	43.5°	Cs-137 TB
Bicron	NA	5 uRem/hr	NA	30 uRem/hr	Y	Y	Y	1035	50.3°	Th-232 JE
Bicron	NA	N/A	NA	N/A						N/A
Bicron	NA	5 uRem/hr	NA	30 uRem/hr	Y	Y	Y	1400	43.5°	Th-232 TB

1. Instrument designated check source is listed on calibration sticker. Record check source response (net cpm) prior to field deployment for all check sources being used.
2. Source and Background count rate should be determined from the **average of three static counts** at the same location. Repeat counts should be within 20%. If count rate diverges significantly, perform additional counts to evaluate instrument stability