



MINTS TECHNICAL SERVICES

Rev 1 10/18/15

Instrument Field Response Check Log

1. Instrument Information¹

Ratemeter: Make/Model: LUDLUM 2241-2 Serial No. 262737 Cal. Due Date: 9/2/16
 Detector 1: Make/Model: LUDLUM 44-10 Serial No. PR 111127
 Bicron MicroRem Meter: Serial No. A224U Cal. Due Date: 8/4/16

2. Check Source Information:

Source 1 Isotope: Th-232 Serial No.: 116 Activity: <0.1 units: µci Assay Date: 12/30/10
 Response Acceptance Range (+/-20%): uRem/hr +20% _____ uRem/hr -20% _____ net cpm + 20% 22926 net cpm -20% 15284
 Source 2 Isotope: Cs-137 Serial No.: 87E13-48 Activity: 0.02 units: µci Assay Date: 1/20/10
 Response Acceptance Range (+/-20%): uRem/hr +20% _____ uRem/hr -20% _____ net cpm + 20% 13375 net cpm -20% 8919

3. Technician/Worker Performing Checks:

Name: STEVE KINSWAD Title: RCT Date: 12/10/15 Time: 0815

4. Site or Location:

Site/Job: 5.4

Location Description: WOODS

GPS Coordinates (when required): X-Coord: _____ Y-Coord: _____

Instrument Field Response					Use Acceptance Criteria					Remarks
Meter	Bkg Cnt Time (min)	Bkg Counts (cpm) or uRem/hr	Source Cnt Time (min)	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	7625	1	21116	Y	Y	Y	0815	44.8	Th-232
Ratemeter	1	7625	1	11356	Y	Y	Y	0815	44.8	Cs-137
Ratemeter	1	7556	1	19670	Y	Y	Y	1100	45.8	Th-232
Ratemeter	1	7556	1	11260	Y	Y	Y	1100	45.8	Cs-137
Ratemeter	1	7423	1	19406	Y	Y	Y	1308	45.8	Th-232
Ratemeter	1	7423	1	11391	Y	Y	Y	1313	45.8	Cs-137
Bicron	NA	6	NA	18	Y	Y	Y	0815	44.8	Th-232
Bicron	NA	6	NA	18	Y	Y	Y	1100	45.8	Th-232
Bicron	NA	6	NA	18	Y	Y	Y	1300	45.8	Th-232

- 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.
- 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