

**RADIATION SURVEY
REPORT OF FINDINGS**

**FORMER CITY OF BROKEN ARROW, OK LANDFILL SITE
(W/2 OF THE NE/4 OF SECTION 8, T18N, R15E WAGONER COUNTY, OK)**

MAY 2014

PREPARED FOR:

**JM ASSETS LP
4203 SPINNAKER COVE
AUSTIN, TX 78731**

(A & M Project No. 2028-009)

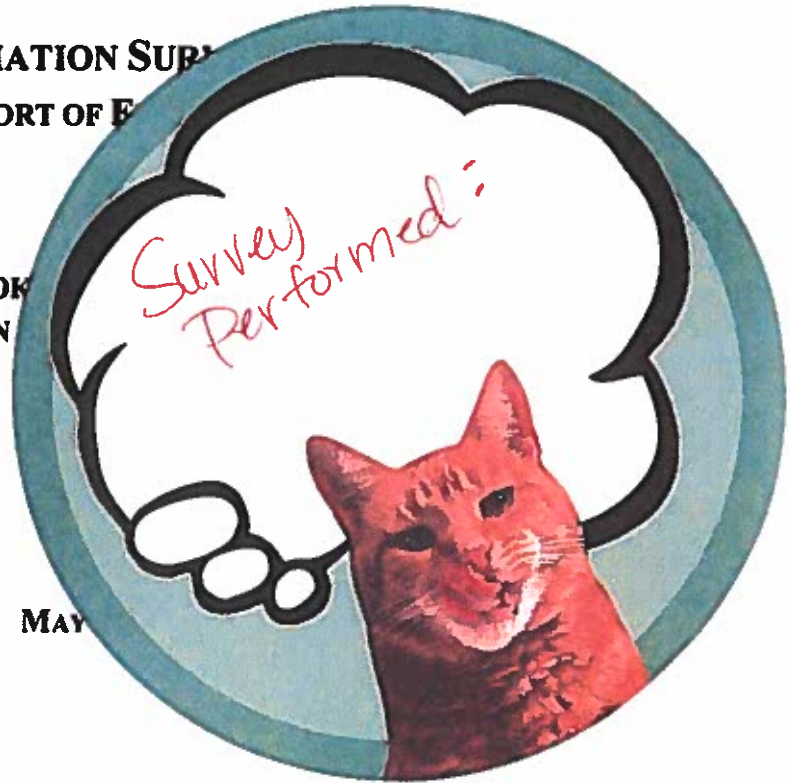
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(W/2 OF THE NE/4 OF SECTION 36)**



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1.0 Introduction

Previous investigations in support of a Brownfields Proposal for a “No Action Necessary” determination from the Oklahoma Department of Environmental Quality (DEQ) were conducted on property which contains the former City of Broken Arrow, OK Landfill. The property (hereinafter the “Site”) is located within the W/2 of the NE/4 of Section 8, Township 18N, Range 15 East, Wagoner County, Oklahoma. From a surface soil, sediment, surface water, groundwater, and methane gas generation perspective, the previous investigations resulted in a determination that the historic site activities do not present an unreasonable risk to human health and/or the environment. However, radiation surveys conducted at the site indicated that a small portion of the property exhibited gamma activity above the natural background level of adjacent areas.

The areas within the Site previously identified with higher than background activity are primarily located in the northeastern corner of the 76 acre property and constitute an area estimated to be between one and two acres in size. The cause(s) of the elevated activity observed was initially attributed to small radiation source material (such as that used in medical equipment and testing gauges) that may have been disposed (buried) in the landfill. However, further investigation of the area of elevated activity by DEQ personnel resulted in a determination that a layer of radioactive material exists in the shallow subsurface. The total areal extent of shallow subsurface material on the property and the entity(ies)/licensee(s) responsible for generation and placement of these materials at the site are not currently known.

As a result of their findings, DEQ requested rescreening of the site on a close grid basis to allow for identification of any additional areas where these materials may have been placed. Identification of all areas exhibiting elevated activity is an important aspect in planning for removal of the existing radioactive materials and for identifying those areas posing no threat to human health. Identification of areas posing no threat to human health could then be available for planned site development.

This Report of Findings presents the results of the radiation survey conducted at the site. Areas where no elevated activity exists above twice background levels are considered “clean” and are depicted. With proper controls to protect human health and the environment from nearby impacted areas, these areas can be considered available for immediate development. Access to “impacted” areas will be controlled until removal and release for unrestricted use is obtained from DEQ.

2.0 Site Location

The Site consists of approximately 76-acres of undeveloped land located within the West ½ of the Northeast ¼ of Section 8, Township 18 North, Range 15 East, Wagoner County, Oklahoma. The Site is situated in the northeast portion of the State of Oklahoma and within the west-central portion of Wagoner County. The Site is located approximately 2.5 miles east of downtown Broken Arrow, OK and 0.25 mile west of the East 71st Street/Kenosha Street and South 225th East Avenue intersection. The Creek Turnpike and Muskogee Turnpike intersection is situated approximately 0.75 mile southwest of the Site. Except for an earthen access road, the Site currently does not have any improvements (buildings, tanks, parking lots, etc.). The site is fenced and access to the site is limited. A gate provides access. When not in use, the gate is kept chained and locked. The property is posted "No Trespassing".

3.0 Site History

According to historical sources, the Site was formerly a coal strip mine that was mined in the 1920s and 1930s. Some additional mining is reported to have occurred in the 1960's. Mining activities occurred prior to the Surface Mining Control and Reclamation Act of 1977 and the site was left in an un-reclaimed state.

In the early 1970's, consideration was made for using the site for land filling purposes. The Site was permitted through the Oklahoma State Department of Health (OSDH) for hazardous waste disposal by the manufacturer of acetylene on February 15, 1973. OSDH stamped this first permit "invalid" with a remark of "Sold to Broken Arrow of S.L." (Sanitary Landfill). Hazardous waste generated from the manufacture of acetylene was not disposed at the site.

OSDH then reissued Permit No. 3573002 on June 15, 1973 to the City of Broken Arrow, OK for a sanitary landfill at the site. The same permit was closed on September 25, 1976. This permitting record indicates that the Site was utilized only for a maximum of 2.5 years by the City of Broken Arrow for disposing municipal waste. It is not currently known if the City of Broken Arrow accepted any radiological waste/materials at the site.

As part of a change in ownership, a Phase I Environmental Site Assessment (ESA) was originally conducted in February 2008 and was later updated in December 2008 and January 2009. Records indicate that historically, the Site had been strip mined and later permitted as a municipal landfill for the City of Broken Arrow, OK. The current owner of the property, JM

Assets LP, later purchased the site for development. JM Assts LP has never conducted any disposal activities or industrial activities at the site and the site remains undeveloped.

As a result of the change in ownership, and in consideration of future development of the site, JM Assets LP, entered into Memorandum of Agreement and Consent Order (MACO) with the Oklahoma Department of Environmental Quality (DEQ). The MACO acknowledges the entering of the property into the Brownfields Program administered by DEQ. Investigation and Site Characterization activities in support of a Brownfields Proposal for obtaining a Certificate of No Further Action have been conducted. However, to date, a Certificate of No Further Action has not been granted by DEQ and is pending resolution of the elevated gamma activity and radioactive material found at the site.

4.0 Radionuclides of Concern

Sampling and radiochemical analysis of the identified shallow subsurface materials at the site indicate the presence of uranium, thorium, and associated daughter isotopes as well as the metals magnesium, chromium, manganese, molybdenum, and aluminum.

At the activity and concentrations detected, these materials are not generally associated with the natural geologic strata of the area and are believed to have been brought to the site and disposed/dumped. The exact timing of placement of these materials is currently unknown.

5.0 Radiation Survey Procedures

Procedures followed in conducting the radiation survey at the Site were in accordance with the Multi-Agency Radiation Survey and Site Investigation Manual (MARSSIM). The MARSSIM is a multi-agency (Dept. of Defense, Dept. of Energy, Environmental Protection Agency, and the Nuclear Regulatory Commission) consensus document that provides information and guidance on planning, conducting, evaluating, and documenting, radiological surveys on building surfaces and surface soil for demonstrating compliance with dose or risk- based regulations or standards. The entire site was surveyed using direct measurement equipment and a reference coordinate system for documentation purposes. Soil sampling was not conducted during performance of the radiation survey.

5.1 Survey Grid Establishment

A reference coordinate system based on intersecting perpendicular lines was used at the Site. Based on the historical information of the site and previously gathered survey data, a grid pattern of 50 feet by 50 feet (~15 meters x 15 meters) was utilized in the radiation survey.

A base map containing the reference coordinate system with nodes was prepared for use in the field and was based on differential global positioning system (GPS) data overlain on a site aerial photograph. A Trimble R8 GNSS Model 2 GPS system, with a horizontal precision of approximately $\pm 1/2$ inch (± 1.3 centimeters) was used to establish the grid. The procedure involved establishing four site control points which surround the Site and recording the coordinates and elevations of the points using a Trimble GPS receiver to record the static positional data. The recorded data for each point was then uploaded to the Online Positioning User Service-Rapid Static (OPUS-RS) web-site operated by the National Geodetic Survey. The OPUS-RS web-site processed the uploaded data and determined a highly accurate position of each point with respect to at least three Continuously Operating Reference Stations (CORS). The average longitude, latitude and elevation residuals of the control points based on the North American Vertical Datum of 1988 (NAVD1988) was generated and converted to the local state plane coordinate system. The state plane coordinates were used to create the grid and each node of the grid was assigned its own unique number for survey purposes. Using the GPS assigned node coordinate method allows for accurately locating a node point in the future should it become necessary. For map reference and presentation purposes, each node was also assigned a unique alphanumeric identifier. **Figure 1** presents the grid node locations and alphanumeric grid layout established for the Site. Corresponding point numbers utilized by the GPS system are also provided.

5.2 Instrumentation

A Ludlum Model 3 Survey Meter with an analog (rather than digital) readout was used for the survey. The meter was equipped with a Ludlum 44-2 Sodium Iodide detector. Based on historical information of the Site, this detector was suitable for use at the Site. The survey meter was configured to allow for direct measurement of gamma radiation in the air in microRoentgens per hour ($\mu\text{R/hr}$).

Prior to use, the survey meter was checked for proper operation by conducting an operational check (including a battery test and instrument test) in accordance with Manufacturers recommendations.

5.3 Survey Technique

Each day, prior to conducting Site radiation surveying activities, background radiation levels were determined for comparison purposes. Two measurement readings were collected at each background reference area: one at ground surface and one approximately 3 feet (1 meter) above the ground surface. Measurement readings were collected by holding the survey meter stationary. Background readings varied from location to location but generally ranged from 13 to 17 $\mu\text{R/hr}$, with an average reading of 14.8 $\mu\text{R/hr}$ at ground surface and an average reading of 14.4 $\mu\text{R/hr}$ at three feet above ground level.

After collection of the background readings, survey activities at the Site were initiated or continued along the established grid. Measurement readings were collected at the survey nodes located by the GPS equipment and recorded. Two measurement readings were collected at each survey node: one at ground surface and one approximately 3 feet (1 meter) above the ground surface. Measurement readings were collected by holding the survey meter stationary. After recording the reading, the surveyor(s) moved along the grid line to the next survey node location.

In the event measurement readings at a survey node exceed three times the minimum recorded background level, additional readings at ground level and 1 meter above the ground level were collected at each of four points approximately 3 meters from the survey node. The points were determined by walking approximately 3 meters along a line diagonal to the grid system (i.e., NE, SE, SW, and NW) to a point and recording the measurement readings.

Once the additional readings were recorded, surveying along the established grid continued. This procedure continued until the entire Site had been surveyed. Readings were not recorded at established grid nodes falling within the local creek channel or outside of property fence lines/boundary. Attachment A presents a tabulation of all recorded data by alphanumeric grid node. Northing and Easting coordinates (based on the state plane coordinate system) and recorded readings at ground level and three feet above ground are included.

6.0 Evaluation of Survey Results

For purposes of data evaluation, radiation exposure readings at the Site were compared to background readings. Figure 2 presents the results of the radiation survey in graphical (color coded) format showing the locations and relative exposure ranges throughout the entire site.

As can be observed, the vast majority of the property exhibits a radiation level below 25.00 $\mu\text{R/hr}$ with portions of the property below a reading of 14.99 $\mu\text{R/hr}$.

Readings below 14.99 $\mu\text{R/hr}$ are consistent with the average background reading recorded in the area (14.8 $\mu\text{R/hr}$). Values between 14.99 $\mu\text{R/hr}$ and 25.00 $\mu\text{R/hr}$ while slightly elevated above background are less than two times the background level and are believed to represent the natural radioactivity of the near-surface geologic strata of the area.

Historic coal mining activities conducted at this site, left the area in an un-reclaimed state with overburden (spoil) materials (shale and rock units of the Senora Formation) exposed at the surface. Later reclamation activities conducted at the site leveled the exposed spoil ridges but resulted in large areas of shale overburden at or near the surface.

Certain layers within the strata from which the coal was mined are known to have phosphatic nodules and/or shale which have been reported to have minute accumulations of naturally occurring uranium (Hayden and Danilchik, Geological Survey Bulletin 1147-B, 1962). When screened, the nodules and/or shale are reported to have a contact dose rate of 15 $\mu\text{R/hr}$ to a high of 50 $\mu\text{R/hr}$. The readings observed over much of the area are well within the reported dose rates for these naturally occurring materials and are believed to represent the natural radioactivity of the geologic strata at the surface of the site.

Elevated readings were observed in a localized area near the northeastern corner of the Site (see Figure 2). In this area, readings greater than three times background were observed with the highest readings being recorded at more than 30 times background. The area where elevated readings were observed approximates 2.0 acres in size and is believed to be the only area at the site where radioactive materials were historically disposed/dumped.

7.0 Observations and Conclusions

Based on the results of the radiation survey conducted at the former City of Broken Arrow, OK Landfill Site, the following observations and conclusions can be made:

- Evaluation of the site on an approximate 50' by 50' grid basis resulted in the collection of approximately 1,500 data points on the level of radioactivity existing at the site.

- **The use of differential Global Positioning System (GPS) techniques at the site resulted in the ability to accurately locate grid nodes established for radiation surveying purposes.**
- **Approximately 2.0 acres of land at the 76 acre property are impacted by radioactive materials which had been disposed/dumped at the site.**
- **The exact timing of placement of these radioactive materials is currently unknown.**
- **Impact by radioactive material is limited to the northeastern corner of the property.**
- **Within a short distance of the area of impact, direct measurement of radioactivity exposure drops rapidly and within a few feet is at background or a naturally occurring level.**
- **Only the northeastern corner of the property where the elevated readings were encountered will require additional characterization/remediation.**
- **With exception of the northeastern corner of the property, the predominance of the site poses no threat to human health or the environment from radioactivity and can be developed for commercial use.**

8.0 References

Hayden, Harold J. and Walter Danilchik, *Uranium in Some Rocks of Pennsylvanian Age in Oklahoma, Kansas, and Missouri*. Geological Survey Bulletin 1147-B. United States Government Printing Office, Washington: 1962.

FIGURES

ATTACHMENT A
TABULATED READINGS

Grid Node	Point	Northing	Easting	Ground Reading (μ R/hr)	3 ft Reading (μ R/hr)
B1	1	391388	2637964	19	18
C1	2	391388	2638014	20	19
D1	3	391388	2638064	17	18
E1	4	391388	2638114	19	20
F1	5	391388	2638164	18	18
G1	6	391388	2638214	18	19
H1	7	391388	2638264	17	18
I1	8	391388	2638314	15	16
J1	9	391388	2638364	16	14
K1	10	391388	2638414	16	15
L1	11	391388	2638464	15	15
M1	12	391388	2638514	14	16
N1	13	391388	2638564	15	13
O1	14	391388	2638614	16	14
P1	15	391388	2638664	15	14
Q1	16	391388	2638714	17	16
R1	17	391388	2638764	15	13
S1	18	391388	2638814	15	15
T1	19	391388	2638864	16	14
U1	20	391388	2638914	16	16
V1	21	391388	2638964	15	16
W1	22	391388	2639014	14	15
X1	23	391388	2639064	15	14
Y1	24	391388	2639114	15	14
Z1	25	391388	2639164	14	16
AA1	26	391388	2639214	15	16
BB1	27	391388	2639264	20	18
B2	28	391438	2637964	18	18
C2	29	391438	2638014	18	18
D2	30	391438	2638064	20	19
E2	31	391438	2638114	17	18
F2	32	391438	2638164	19	19
G2	33	391438	2638214	21	20

Grid Node	Point	Northing	Easting	Ground Reading ($\mu\text{R/hr}$)	3 ft Reading ($\mu\text{R/hr}$)
H2	34	391438	2638264	17	16
I2	35	391438	2638314	16	17
J2	36	391438	2638364	14	15
K2	37	391438	2638414	15	15
L2	38	391438	2638464	15	16
M2	39	391438	2638514	15	16
N2	40	391438	2638564	14	13
O2	41	391438	2638614	17	16
P2	42	391438	2638664	16	14
Q2	43	391438	2638714	16	15
R2	44	391438	2638764	13	15
S2	45	391438	2638814	14	15
T2	46	391438	2638864	15	15
U2	47	391438	2638914	15	17
V2	48	391438	2638964	16	15
W2	49	391438	2639014	15	14
X2	50	391438	2639064	14	14
Y2	51	391438	2639114	15	13
Z2	52	391438	2639164	15	16
AA2	53	391438	2639214	15	13
BB2	54	391438	2639264	14	15
B3	55	391488	2637964	18	20
C3	56	391488	2638014	17	18
D3	57	391488	2638064	17	18
E3	58	391488	2638114	18	19
F3	59	391488	2638164	18	19
G3	60	391488	2638214	18	18
H3	61	391488	2638264	16	17
I3	62	391488	2638314	18	16
J3	63	391488	2638364	15	14
K3	64	391488	2638414	17	15
L3	65	391488	2638464	16	15
M3	66	391488	2638514	15	15

Grid Node	Point	Northing	Easting	Ground Reading ($\mu\text{R/hr}$)	3 ft Reading ($\mu\text{R/hr}$)
N3	67	391488	2638564	13	13
O3	68	391488	2638614	15	17
P3	69	391488	2638664	16	16
Q3	70	391488	2638714	16	16
R3	71	391488	2638764	14	15
S3	72	391488	2638814	14	16
T3	73	391488	2638864	15	15
U3	74	391488	2638914	17	16
V3	75	391488	2638964	16	16
W3	76	391488	2639014	15	16
X3	77	391488	2639064	13	14
W3	78	391488	2639114	15	15
Z3	79	391488	2639164	14	15
AA3	80	391488	2639214	15	15
BB3	81	391488	2639264	21	18
B4	82	391538	2637964	15	17
C4	83	391538	2638014	16	17
D4	84	391538	2638064	17	17
E4	85	391538	2638114	17	18
F4	86	391538	2638164	18	20
G4	87	391538	2638214	23	25
H4	88	391538	2638264	17	18
I4	89	391538	2638314	11	10
J4	90	391538	2638364	16	16
K4	91	391538	2638414	15	17
L4	92	391538	2638464	16	17
M4	93	391538	2638514	15	16
N4	94	391538	2638564	16	15
O4	95	391538	2638614	15	14
P4	96	391538	2638664	14	14
Q4	97	391538	2638714	14	14
R4	98	391538	2638764	15	14
S4	99	391538	2638814	16	16

Grid Node	Point	Northing	Easting	Ground Reading ($\mu\text{R/hr}$)	3 ft Reading ($\mu\text{R/hr}$)
T4	100	391538	2638864	15	16
U4	101	391538	2638914	16	19
V4	102	391538	2638964	15	16
W4	103	391538	2639014	15	15
X4	104	391538	2639064	16	15
Y4	105	391538	2639114	15	15
Z4	106	391538	2639164	14	16
AA4	107	391538	2639214	15	14
BB4	108	391538	2639264	15	15
B5	109	391588	2637964	17	17
C5	110	391588	2638014	18	16
D5	111	391588	2638064	19	18
E5	112	391588	2638114	16	17
F5	113	391588	2638164	20	22
G5	114	391588	2638214	20	20
H5	115	391588	2638264	17	18
I5	116	391588	2638314	18	18
J5	117	391588	2638364	20	18
K5	118	391588	2638414	18	18
L5	119	391588	2638464	15	16
M5	120	391588	2638514	15	16
N5	121	391588	2638564	17	16
O5	122	391588	2638614	18	17
P5	123	391588	2638664	18	17
Q5	124	391588	2638714	18	19
R5	125	391588	2638764	16	17
S5	126	391588	2638814	16	14
T5	127	391588	2638864	16	16
U5	128	391588	2638914	16	15
V5	129	391588	2638964	14	15
W5	130	391588	2639014	18	16
X5	131	391588	2639064	17	18
Y5	132	391588	2639114	19	17

Grid Node	Point	Northing	Easting	Ground Reading ($\mu\text{R/hr}$)	3 ft Reading ($\mu\text{R/hr}$)
Z5	133	391588	2639164	17	18
AA5	134	391588	2639214	21	19
BB5	135	391588	2639264	23	20
B6	136	391638	2637964	18	18
C6	137	391638	2638014	18	18
D6	138	391638	2638064	18	19
E6	139	391638	2638114	18	19
F6	140	391638	2638164	21	20
G6	141	391638	2638214	21	18
H6	142	391638	2638264	18	17
I6	143	391638	2638314	20	18
J6	144	391638	2638364	18	20
K6	145	391638	2638414	20	20
L6	146	391638	2638464	13	13
M6	147	391638	2638514	18	16
N6	148	391638	2638564	14	15
O6	149	391638	2638614	15	15
P6	150	391638	2638664	15	16
Q6	151	391638	2638714	16	15
R6	152	391638	2638764	16	16
S6	153	391638	2638814	17	18
T6	154	391638	2638864	14	14
U6	155	391638	2638914	16	17
V6	156	391638	2638964	19	18
W6	157	391638	2639014	18	16
X6	158	391638	2639064	17	16
Y6	159	391638	2639114	16	17
Z6	160	391638	2639164	18	18
AA6	161	391638	2639214	16	18
BB6	162	391638	2639264	16	15
B7	163	391688	2637964	17	18
C7	164	391688	2638014	16	16
D7	165	391688	2638064	17	18

Grid Node	Point	Northing	Easting	Ground Reading (μ R/hr)	3 ft Reading (μ R/hr)
E7	166	391688	2638114	22	21
F7	167	391688	2638164	20	20
G7	168	391688	2638214	19	19
H7	169	391688	2638264	18	19
I7	170	391688	2638314	19	18
J7	171	391688	2638364	18	21
K7	172	391688	2638414	18	16
L7	173	391688	2638464	17	17
M7	174	391688	2638514	18	19
N7	175	391688	2638564	16	17
O7	176	391688	2638614	17	16
P7	177	391688	2638664	15	15
Q7	178	391688	2638714	17	16
R7	179	391688	2638764	16	15
S7	180	391688	2638814	16	15
T7	181	391688	2638864	18	18
U7	182	391688	2638914	18	16
V7	183	391688	2638964	17	17
W7	184	391688	2639014	16	18
X7	185	391688	2639064	17	18
Y7	186	391688	2639114	18	18
Z7	187	391688	2639164	15	16
AA7	188	391688	2639214	18	16
BB7	189	391688	2639264	17	16
B8	190	391738	2637964	16	16
C8	191	391738	2638014	15	14
D8	192	391738	2638064	17	17
E8	193	391738	2638114	18	17
F8	194	391738	2638164	16	17
G8	195	391738	2638214	19	18
H8	196	391738	2638264	17	17
I8	197	391738	2638314	18	19
J8	198	391738	2638364	18	16

Grid Node	Point	Northing	Easting	Ground Reading ($\mu\text{R/hr}$)	3 ft Reading ($\mu\text{R/hr}$)
K8	199	391738	2638414	15	16
L8	200	391738	2638464	14	15
M8	201	391738	2638514	17	15
N8	202	391738	2638564	17	15
O8	203	391738	2638614	15	15
P8	204	391738	2638664	17	16
Q8	205	391738	2638714	16	16
R8	206	391738	2638764	18	19
S8	207	391738	2638814	15	16
T8	208	391738	2638864	15	15
U8	209	391738	2638914	16	16
V8	210	391738	2638964	16	16
W8	211	391738	2639014	17	17
X8	212	391738	2639064	17	16
Y8	213	391738	2639114	17	16
Z8	214	391738	2639164	15	15
AA8	215	391738	2639214	16	15
BB8	216	391738	2639264	15	16
B9	217	391788	2637964	15	15
C9	218	391788	2638014	16	15
D9	219	391788	2638064	17	16
E9	220	391788	2638114	17	18
F9	221	391788	2638164	17	17
G9	222	391788	2638214	20	20
H9	223	391788	2638264	17	18
I9	224	391788	2638314	17	18
J9	225	391788	2638364	17	17
K9	226	391788	2638414	17	17
L9	227	391788	2638464	18	17
M9	228	391788	2638514	17	17
N9	229	391788	2638564	16	17
O9	230	391788	2638614	17	18
P9	231	391788	2638664	18	18

Grid Node	Point	Northing	Easting	Ground Reading ($\mu\text{R/hr}$)	3 ft Reading ($\mu\text{R/hr}$)
Q9	232	391788	2638714	20	18
R9	233	391788	2638764	18	18
S9	234	391788	2638814	15	16
T9	235	391788	2638864	15	16
U9	236	391788	2638914	17	16
V9	237	391788	2638964	18	17
W9	238	391788	2639014	18	17
X9	239	391788	2639064	18	19
Y9	240	391788	2639114	16	17
Z9	241	391788	2639164	16	14
AA9	242	391788	2639214	16	16
BB9	243	391788	2639264	16	15
B10	244	391838	2637964	14	15
C10	245	391838	2638014	18	16
D10	246	391838	2638064	17	18
E10	247	391838	2638114	19	17
F10	248	391838	2638164	17	18
G10	249	391838	2638214	21	19
H10	250	391838	2638264	23	20
I10	251	391838	2638314	18	18
J10	252	391838	2638364	17	16
K10	253	391838	2638414	18	16
L10	254	391838	2638464	16	17
M10	255	391838	2638514	20	19
N10	256	391838	2638564	20	19
O10	257	391838	2638614	16	16
P10	258	391838	2638664	18	18
Q10	259	391838	2638714	17	18
R10	260	391838	2638764	17	18
S10	261	391838	2638814	15	16
T10	262	391838	2638864	16	16
U10	263	391838	2638914	18	16
V10	264	391838	2638964	17	17
W10	265	391838	2639014	17	16
X10	266	391838	2639064	17	17
Y10	267	391838	2639114	17	17
Z10	268	391838	2639164	15	15
AA10	269	391838	2639214	16	15
BB10	270	391838	2639264	15	16

Grid Node	Point	Northing	Easting	Ground Reading ($\mu\text{R/hr}$)	3 ft Reading ($\mu\text{R/hr}$)
B11	271	391888	2637964	16	17
C11	272	391888	2638014	18	19
D11	273	391888	2638064	16	15
E11	274	391888	2638114	19	17
F11	275	391888	2638164	20	20
G11	276	391888	2638214	16	16
H11	277	391888	2638264	17	18
I11	278	391888	2638314	17	16
J11	279	391888	2638364	22	20
K11	280	391888	2638414	18	20
L11	281	391888	2638464	19	17
M11	282	391888	2638514	20	20
N11	283	391888	2638564	17	19
O11	284	391888	2638614	17	17
P11	285	391888	2638664	18	18
Q11	286	391888	2638714	18	19
R11	287	391888	2638764	17	17
S11	288	391888	2638814	17	18
T11	289	391888	2638864	16	17
U11	290	391888	2638914	18	16
V11	291	391888	2638964	17	17
W11	292	391888	2639014	17	17
X11	293	391888	2639064	16	17
Y11	294	391888	2639114	17	18
Z11	295	391888	2639164	16	16
AA11	296	391888	2639214	16	15
BB11	297	391888	2639264	14	15
B12	298	391938	2637964	16	18
C12	299	391938	2638014	17	16
D12	300	391938	2638064	14	12
E12	301	391938	2638114	17	15
F12	302	391938	2638164	17	17
G12	303	391938	2638214	17	17
H12	304	391938	2638264	18	19
I12	305	391938	2638314	16	17
J12	306	391938	2638364	16	15
K12	307	391938	2638414	16	18
L12	308	391938	2638464	17	18
M12	309	391938	2638514	15	17

Grid Node	Point	Northing	Easting	Ground Reading (μ R/hr)	3 ft Reading (μ R/hr)
N12	310	391938	2638564	17	18
O12	311	391938	2638614	17	17
P12	312	391938	2638664	16	17
Q12	313	391938	2638714	17	17
R12	314	391938	2638764	18	17
S12	315	391938	2638814	19	18
T12	316	391938	2638864	19	17
U12	317	391938	2638914	16	17
V12	318	391938	2638964	18	19
W12	319	391938	2639014	16	17
X12	320	391938	2639064	16	18
Y12	321	391938	2639114	17	17
Z12	322	391938	2639164	16	16
AA12	323	391938	2639214	17	17
BB12	324	391938	2639264	17	16
B13	325	391988	2637964	17	16
C13	326	391988	2638014	17	18
D134	327	391988	2638064	18	19
E13	328	391988	2638114	19	18
F13	329	391988	2638164	21	19
G13	330	391988	2638214	18	18
H13	331	391988	2638264	19	18
I13	332	391988	2638314	21	20
J13	333	391988	2638364	17	17
K13	334	391988	2638414	17	18
L13	335	391988	2638464	17	18
M13	336	391988	2638514	17	18
N13	337	391988	2638564	17	17
O13	338	391988	2638614	18	17
P13	339	391988	2638664	17	17
Q13	340	391988	2638714	18	17
R13	341	391988	2638764	17	18
S13	342	391988	2638814	17	18
T13	343	391988	2638864	18	18
U13	344	391988	2638914	17	17
V13	345	391988	2638964	16	17
W13	346	391988	2639014	17	17
X13	347	391988	2639064	16	18
Y13	348	391988	2639114	18	18

Grid Node	Point	Northing	Easting	Ground Reading (μ R/hr)	3 ft Reading (μ R/hr)
Z13	349	391988	2639164	16	16
AA13	350	391988	2639214	17	16
BB13	351	391988	2639264	16	17
B14	352	392038	2637964	17	16
C14	353	392038	2638014	17	18
D14	354	392038	2638064	22	20
E14	355	392038	2638114	16	18
F14	356	392038	2638164	19	18
G14	357	392038	2638214	17	17
H14	358	392038	2638264	19	18
I14	359	392038	2638314	18	19
J14	360	392038	2638364	17	17
K14	361	392038	2638414	19	18
L14	362	392038	2638464	17	19
M14	363	392038	2638514	18	17
N14	364	392038	2638564	15	17
O14	365	392038	2638614	17	18
P14	366	392038	2638664	17	17
Q14	367	392038	2638714	16	16
R14	368	392038	2638764	17	16
S14	369	392038	2638814	16	17
T14	370	392038	2638864	19	18
U14	371	392038	2638914	18	19
V14	372	392038	2638964	16	17
W14	373	392038	2639014	17	17
X14	374	392038	2639064	16	17
Y14	375	392038	2639114	14	14
Z14	376	392038	2639164	16	15
AA14	377	392038	2639214	17	15
BB14	378	392038	2639264	16	17
B15	379	392088	2637964	16	16
C15	380	392088	2638014	20	18
D15	381	392088	2638064	15	16
E15	382	392088	2638114	16	17
F15	383	392088	2638164	16	18
G15	384	392088	2638214	14	14
H15	385	392088	2638264	17	19
I15	386	392088	2638314	17	18
J15	387	392088	2638364	17	17

Grid Node	Point	Northing	Easting	Ground Reading ($\mu\text{R/hr}$)	3 ft Reading ($\mu\text{R/hr}$)
K15	388	392088	2638414	17	19
L15	389	392088	2638464	17	18
M15	390	392088	2638514	18	18
N15	391	392088	2638564	18	17
O15	392	392088	2638614	18	18
P15	393	392088	2638664	17	19
Q15	394	392088	2638714	18	18
R15	395	392088	2638764	18	19
S15	396	392088	2638814	16	17
T15	397	392088	2638864	18	17
U15	398	392088	2638914	15	16
V15	399	392088	2638964	16	17
W15	400	392088	2639014	18	19
X15	401	392088	2639064	16	17
Y15	402	392088	2639114	16	18
Z15	403	392088	2639164	17	17
AA15	404	392088	2639214	16	16
BB15	405	392088	2639264	17	17
B16	406	392138	2637964	17	16
C16	407	392138	2638014	17	16
D16	408	392138	2638064	17	18
E16	409	392138	2638114	18	19
F16	410	392138	2638164	19	18
G16	411	392138	2638214	21	19
H16	412	392138	2638264	18	18
I16	413	392138	2638314	19	18
J16	414	392138	2638364	21	20
K16	415	392138	2638414	17	17
L16	416	392138	2638464	17	18
M16	417	392138	2638514	17	18
N16	418	392138	2638564	17	18
O16	419	392138	2638614	17	17
P16	420	392138	2638664	18	17
Q16	421	392138	2638714	16	17
R16	422	392138	2638764	17	17
S16	423	392138	2638814	18	19
T16	424	392138	2638864	17	18
U16	425	392138	2638914	17	15
V16	426	392138	2638964	19	19

Grid Node	Point	Northing	Easting	Ground Reading ($\mu\text{R/hr}$)	3 ft Reading ($\mu\text{R/hr}$)
W16	427	392138	2639014	19	18
X16	428	392138	2639064	17	17
Y16	429	392138	2639114	18	17
Z16	430	392138	2639164	14	15
AA16	431	392138	2639214	17	18
BB16	432	392138	2639264	19	18
B17	433	392188	2637964	19	17
C17	434	392188	2638014	20	20
D17	435	392188	2638064	17	15
E17	436	392188	2638114	18	17
F17	437	392188	2638164	17	17
G17	438	392188	2638214	17	19
H17	439	392188	2638264	18	19
I17	440	392188	2638314	17	18
J17	441	392188	2638364	18	19
K17	442	392188	2638414	19	19
L17	443	392188	2638464	21	20
M17	444	392188	2638514	17	17
N17	445	392188	2638564	16	17
O17	446	392188	2638614	18	18
P17	447	392188	2638664	19	19
Q17	448	392188	2638714	16	18
R17	449	392188	2638764	18	16
S17	450	392188	2638814	15	17
T17	451	392188	2638864	17	18
U17	452	392188	2638914	16	17
V17	453	392188	2638964	19	17
W17	454	392188	2639014	19	17
X17	455	392188	2639064	16	18
Y17	456	392188	2639114	16	18
Z17	457	392188	2639164	17	16
AA17	458	392188	2639214	18	18
BB17	459	392188	2639264	18	19
B18	460	392238	2637964	17	18
C18	461	392238	2638014	19	17
D18	462	392238	2638064	15	16
E18	463	392238	2638114	17	17
F18	464	392238	2638164	15	16
G18	465	392238	2638214	16	17

Grid Node	Point	Northing	Easting	Ground Reading (μ R/hr)	3 ft Reading (μ R/hr)
H18	466	392238	2638264	16	18
I18	467	392238	2638314	17	17
J18	468	392238	2638364	15	15
K18	469	392238	2638414	18	18
L18	470	392238	2638464	19	18
M18	471	392238	2638514	20	22
N18	472	392238	2638564	19	18
O18	473	392238	2638614	17	16
P18	474	392238	2638664	19	17
Q18	475	392238	2638714	16	18
R18	476	392238	2638764	17	16
S18	477	392238	2638814	19	18
T18	478	392238	2638864	16	18
U18	479	392238	2638914	18	16
V18	480	392238	2638964	17	17
W18	481	392238	2639014	15	16
X18	482	392238	2639064	19	17
Y18	483	392238	2639114	18	19
Z18	484	392238	2639164	19	17
AA18	485	392238	2639214	17	18
BB18	486	392238	2639264	17	17
B19	487	392288	2637964	17	18
C19	488	392288	2638014	18	19
D19	489	392288	2638064	20	19
E19	490	392288	2638114	19	20
F19	491	392288	2638164	17	18
G19	492	392288	2638214	17	18
H19	493	392288	2638264	17	18
I19	494	392288	2638314	19	18
J19	495	392288	2638364	17	19
K19	496	392288	2638414	18	19
L19	497	392288	2638464	19	18
M19	498	392288	2638514	17	18
N19	499	392288	2638564	19	17
O19	500	392288	2638614	19	17
P19	501	392288	2638664	16	15
Q19	502	392288	2638714	16	16
R19	503	392288	2638764	16	16
S19	504	392288	2638814	16	15

Grid Node	Point	Northing	Easting	Ground Reading ($\mu\text{R/hr}$)	3 ft Reading ($\mu\text{R/hr}$)
T19	505	392288	2638864	19	20
U19	506	392288	2638914	15	14
V19	507	392288	2638964	15	15
W19	508	392288	2639014	18	16
X19	509	392288	2639064	16	17
Y19	510	392288	2639114	17	17
Z19	511	392288	2639164	18	19
AA19	512	392288	2639214	18	16
BB19	513	392288	2639264	18	18
B20	514	392338	2637964	16	17
C20	515	392338	2638014	17	18
D20	516	392338	2638064	20	18
E20	517	392338	2638114	17	17
F20	518	392338	2638164	17	18
G20	519	392338	2638214	19	18
H20	520	392338	2638264	20	18
I20	521	392338	2638314	20	18
J20	522	392338	2638364	18	19
K20	523	392338	2638414	20	18
L20	524	392338	2638464	18	18
M20	525	392338	2638514	18	19
N20	526	392338	2638564	19	18
O20	527	392338	2638614	20	20
P20	528	392338	2638664	18	16
Q20	529	392338	2638714	15	16
R20	530	392338	2638764	17	16
S20	531	392338	2638814	16	16
T20	532	392338	2638864	16	15
U20	533	392338	2638914	18	17
V20	534	392338	2638964	21	19
W20	535	392338	2639014	18	18
X20	536	392338	2639064	14	16
Y20	537	392338	2639114	16	15
Z20	538	392338	2639164	17	17
AA20	539	392338	2639214	17	18
BB20	540	392338	2639264	19	17
B21	541	392388	2637964	16	17
C21	542	392388	2638014	18	17
D21	543	392388	2638064	17	17

Grid Node	Point	Northing	Easting	Ground Reading (μ R/hr)	3 ft Reading (μ R/hr)
E21	544	392388	2638114	17	17
F21	545	392388	2638164	20	18
G21	546	392388	2638214	20	19
H21	547	392388	2638264	20	18
I21	548	392388	2638314	18	18
J21	549	392388	2638364	17	18
K21	550	392388	2638414	17	18
L21	551	392388	2638464	19	19
M21	552	392388	2638514	18	17
N21	553	392388	2638564	18	18
O21	554	392388	2638614	17	17
P21	555	392388	2638664	15	17
Q21	556	392388	2638714	17	16
R21	557	392388	2638764	17	18
S21	558	392388	2638814	15	14
T21	559	392388	2638864	16	15
U21	560	392388	2638914	18	17
V21	561	392388	2638964	16	15
W21	562	392388	2639014	17	15
X21	563	392388	2639064	17	17
Y21	564	392388	2639114	16	17
Z21	565	392388	2639164	17	17
AA21	566	392388	2639214	18	17
BB21	567	392388	2639264	16	15
B22	568	392438	2637964	18	17
C22	569	392438	2638014	17	17
D22	570	392438	2638064	17	18
E22	571	392438	2638114	17	15
F22	572	392438	2638164	18	18
G22	573	392438	2638214	17	16
H22	574	392438	2638264	20	18
I22	575	392438	2638314	17	18
J22	576	392438	2638364	17	18
K22	577	392438	2638414	16	16
L22	578	392438	2638464	17	18
M22	579	392438	2638514	18	18
N22	580	392438	2638564	18	17
O22	581	392438	2638614	17	17
P22	582	392438	2638664	17	17

Grid Node	Point	Northing	Easting	Ground Reading ($\mu\text{R/hr}$)	3 ft Reading ($\mu\text{R/hr}$)
Q22	583	392438	2638714	16	16
R22	584	392438	2638764	15	16
S22	585	392438	2638814	18	18
T22	586	392438	2638864	17	17
U22	587	392438	2638914	14	14
V22	588	392438	2638964	16	16
W22	589	392438	2639014	17	16
X22	590	392438	2639064	17	18
Y22	591	392438	2639114	16	16
Z22	592	392438	2639164	17	17
AA22	593	392438	2639214	16	17
BB22	594	392438	2639264	17	16
B23	595	392488	2637964	21	20
C23	596	392488	2638014	16	17
D23	597	392488	2638064	17	17
E23	598	392488	2638114	17	16
F23	599	392488	2638164	16	17
G23	600	392488	2638214	18	19
H23	601	392488	2638264	18	18
I23	602	392488	2638314	17	17
J23	603	392488	2638364	15	15
K23	604	392488	2638414	17	17
L23	605	392488	2638464	19	18
M23	606	392488	2638514	18	19
N23	607	392488	2638564	18	19
O23	608	392488	2638614	17	17
P23	609	392488	2638664	18	18
Q23	610	392488	2638714	17	17
R23	611	392488	2638764	17	18
S23	612	392488	2638814	16	17
T23	613	392488	2638864	17	16
U23	614	392488	2638914	14	15
V23	615	392488	2638964	14	14
W23	616	392488	2639014	16	15
X23	617	392488	2639064	17	17
Y23	618	392488	2639114	14	15
Z23	619	392488	2639164	17	16
AA23	620	392488	2639214	17	17
BB23	621	392488	2639264	15	17

Grid Node	Point	Northing	Easting	Ground Reading ($\mu\text{R/hr}$)	3 ft Reading ($\mu\text{R/hr}$)
B24	622	392538	2637964	20	20
C24	623	392538	2638014	19	19
D24	624	392538	2638064	17	17
E24	625	392538	2638114	16	17
F24	626	392538	2638164	17	15
G24	627	392538	2638214	19	18
H24	628	392538	2638264	16	17
I24	629	392538	2638314	15	17
J24	630	392538	2638364	17	17
K24	631	392538	2638414	17	17
L24	632	392538	2638464	20	18
M24	633	392538	2638514	18	18
N24	634	392538	2638564	16	16
O24	635	392538	2638614	17	17
P24	636	392538	2638664	18	17
Q24	637	392538	2638714	20	18
R24	638	392538	2638764	19	17
S24	639	392538	2638814	17	17
T24	640	392538	2638864	17	16
U24	641	392538	2638914	16	17
V24	642	392538	2638964	17	17
W24	643	392538	2639014	18	17
X24	644	392538	2639064	18	18
Y24	645	392538	2639114	18	19
Z24	646	392538	2639164	17	17
AA24	647	392538	2639214	17	16
BB24	648	392538	2639264	18	18
B25	649	392588	2637964	18	19
C25	650	392588	2638014	17	17
D25	651	392588	2638064	19	19
E25	652	392588	2638114	17	17
F25	653	392588	2638164	15	14
G25	654	392588	2638214	16	17
H25	655	392588	2638264	17	16
I25	656	392588	2638314	15	16
J25	657	392588	2638364	16	17
K25	658	392588	2638414	16	17
L25	659	392588	2638464	17	17
M25	660	392588	2638514	18	19

Grid Node	Point	Northing	Easting	Ground Reading (μ R/hr)	3 ft Reading (μ R/hr)
N25	661	392588	2638564	17	18
O25	662	392588	2638614	16	16
P25	663	392588	2638664	16	17
Q25	664	392588	2638714	16	16
R25	665	392588	2638764	18	18
S25	666	392588	2638814	17	15
T25	667	392588	2638864	19	17
U25	668	392588	2638914	20	18
V25	669	392588	2638964	17	17
W25	670	392588	2639014	18	16
X25	671	392588	2639064	16	14
Y25	672	392588	2639114	17	16
Z25	673	392588	2639164	18	18
AA25	674	392588	2639214	16	17
BB25	675	392588	2639264	17	17
B26	676	392638	2637964	18	18
C26	677	392638	2638014	21	20
D26	678	392638	2638064	17	18
E26	679	392638	2638114	16	16
F26	680	392638	2638164	16	18
G26	681	392638	2638214	17	17
H26	682	392638	2638264	17	18
I26	683	392638	2638314	18	17
J26	684	392638	2638364	17	15
K26	685	392638	2638414	16	17
L26	686	392638	2638464	17	18
M26	687	392638	2638514	17	19
N26	688	392638	2638564	18	19
O26	689	392638	2638614	17	17
P26	690	392638	2638664	19	19
Q26	691	392638	2638714	17	17
R26	692	392638	2638764	17	16
S26	693	392638	2638814	16	17
T26	694	392638	2638864	18	17
U26	695	392638	2638914	18	17
V26	696	392638	2638964	20	18
W26	697	392638	2639014	13	16
X26	698	392638	2639064	15	15
Y26	699	392638	2639114	17	17

Grid Node	Point	Northing	Easting	Ground Reading ($\mu\text{R/hr}$)	3 ft Reading ($\mu\text{R/hr}$)
Z26	700	392638	2639164	15	15
AA26	701	392638	2639214	17	16
BB26	702	392638	2639264	16	16
B27	703	392688	2637964	18	18
C27	704	392688	2638014	17	18
D27	705	392688	2638064	18	17
E27	706	392688	2638114	20	18
F27	707	392688	2638164	14	14
G27	708	392688	2638214	16	15
H27	709	392688	2638264	15	14
I27	710	392688	2638314	17	16
J27	711	392688	2638364	17	17
K27	712	392688	2638414	16	15
L27	713	392688	2638464	20	17
M27	714	392688	2638514	17	17
N27	715	392688	2638564	17	17
O27	716	392688	2638614	16	17
P27	717	392688	2638664	16	17
Q27	718	392688	2638714	22	17
R27	719	392688	2638764	15	16
S27	720	392688	2638814	16	18
T27	721	392688	2638864	17	17
U27	722	392688	2638914	16	17
V27	723	392688	2638964	17	18
W27	724	392688	2639014	16	15
X27	725	392688	2639064	17	17
Y27	726	392688	2639114	19	18
Z27	727	392688	2639164	15	17
AA27	728	392688	2639214	18	17
BB27	729	392688	2639264	17	17
B28	730	392738	2637964	19	17
C28	731	392738	2638014	17	18
D28	732	392738	2638064	17	19
E28	733	392738	2638114	18	17
F28	734	392738	2638164	16	15
G28	735	392738	2638214	18	18
H28	736	392738	2638264	20	19
I28	737	392738	2638314	17	16
J28	738	392738	2638364	16	15

Grid Node	Point	Northing	Easting	Ground Reading (μ R/hr)	3 ft Reading (μ R/hr)
K28	739	392738	2638414	17	17
L28	740	392738	2638464	18	18
M28	741	392738	2638514	18	18
N28	742	392738	2638564	17	17
O28	743	392738	2638614	17	17
P28	744	392738	2638664	16	17
Q28	745	392738	2638714	17	18
R28	746	392738	2638764	17	16
S28	747	392738	2638814	18	17
T28	748	392738	2638864	15	16
U28	749	392738	2638914	16	15
V28	750	392738	2638964	21	19
W28	751	392738	2639014	19	18
X28	752	392738	2639064	16	18
Y28	753	392738	2639114	13	14
Z28	754	392738	2639164	15	16
AA28	755	392738	2639214	16	17
BB28	756	392738	2639264	17	18
B29	757	392788	2637964	18	20
C29	758	392788	2638014	20	18
D29	759	392788	2638064	17	18
E29	760	392788	2638114	17	16
F29	761	392788	2638164	15	16
G29	762	392788	2638214	19	18
H29	763	392788	2638264	15	15
I29	764	392788	2638314	17	17
J29	765	392788	2638364	19	20
K29	766	392788	2638414	17	16
L29	767	392788	2638464	16	17
M29	768	392788	2638514	20	18
N29	769	392788	2638564	17	17
O29	770	392788	2638614	18	19
P29	771	392788	2638664	17	19
Q29	772	392788	2638714	16	17
R29	773	392788	2638764	17	18
S29	774	392788	2638814	16	17
T29	775	392788	2638864	15	15
U29	776	392788	2638914	18	17
V29	777	392788	2638964	17	17

Grid Node	Point	Northing	Easting	Ground Reading (μ R/hr)	3 ft Reading (μ R/hr)
W29	778	392788	2639014	17	18
X29	779	392788	2639064	17	16
Y29	780	392788	2639114	16	15
Z29	781	392788	2639164	18	18
AA29	782	392788	2639214	17	17
BB29	783	392788	2639264	18	18
B30	784	392838	2637964	22	20
C30	785	392838	2638014	18	20
D30	786	392838	2638064	18	18
E30	787	392838	2638114	13	13
F30	788	392838	2638164	16	15
G30	789	392838	2638214	21	20
H30	790	392838	2638264	17	17
I30	791	392838	2638314	14	16
J30	792	392838	2638364	19	17
K30	793	392838	2638414	17	16
L30	794	392838	2638464	15	15
M30	795	392838	2638514	17	18
N30	796	392838	2638564	17	18
O30	797	392838	2638614	20	18
P30	798	392838	2638664	17	17
Q30	799	392838	2638714	17	18
R30	800	392838	2638764	19	17
S30	801	392838	2638814	19	18
T30	802	392838	2638864	18	18
U30	803	392838	2638914	19	19
V30	804	392838	2638964	18	16
W30	805	392838	2639014	17	18
X30	806	392838	2639064	17	17
Y30	807	392838	2639114	15	16
Z30	808	392838	2639164	18	16
AA30	809	392838	2639214	17	18
BB30	810	392838	2639264	20	17
B31	811	392888	2637964	19	19
C31	812	392888	2638014	17	16
D31	813	392888	2638064	17	17
E31	814	392888	2638114	16	16
F31	815	392888	2638164	18	20
G31	816	392888	2638214	19	18

Grid Node	Point	Northing	Easting	Ground Reading (μ R/hr)	3 ft Reading (μ R/hr)
H31	817	392888	2638264	16	17
I31	818	392888	2638314	17	16
J31	819	392888	2638364	15	15
K31	820	392888	2638414	18	17
L31	821	392888	2638464	17	16
M31	822	392888	2638514	17	17
N31	823	392888	2638564	17	17
O31	824	392888	2638614	18	16
P31	825	392888	2638664	20	19
Q31	826	392888	2638714	20	20
R31	827	392888	2638764	19	17
S31	828	392888	2638814	16	14
T31	829	392888	2638864	17	17
U31	830	392888	2638914	17	18
V31	831	392888	2638964	16	16
W31	832	392888	2639014	15	15
X31	833	392888	2639064	16	17
Y31	834	392888	2639114	15	14
Z31	835	392888	2639164	16	15
AA31	836	392888	2639214	16	16
B32	837	392938	2637964	17	18
C32	838	392938	2638014	17	17
D32	839	392938	2638064	16	17
E32	840	392938	2638114	17	16
F32	841	392938	2638164	15	16
G32	842	392938	2638214	14	16
H32	843	392938	2638264	17	17
I32	844	392938	2638314	16	17
J32	845	392938	2638364	18	17
K32	846	392938	2638414	15	15
L32	847	392938	2638464	14	13
M32	848	392938	2638514	15	16
N32	849	392938	2638564	17	17
O32	850	392938	2638614	16	16
P32	851	392938	2638664	18	16
Q32	852	392938	2638714	18	17
R32	853	392938	2638764	19	17
S32	854	392938	2638814	17	17
T32	855	392938	2638864	17	18

Grid Node	Point	Northing	Easting	Ground Reading ($\mu\text{R/hr}$)	3 ft Reading ($\mu\text{R/hr}$)
U32	856	392938	2638914	17	16
V32	857	392938	2638964	17	16
W32	858	392938	2639014	17	17
X32	859	392938	2639064	16	15
Y32	860	392938	2639114	12	14
Z32	861	392938	2639164	17	17
AA32	862	392938	2639214	16	15
B33	863	392988	2637964	17	16
C33	864	392988	2638014	17	17
D33	865	392988	2638064	15	17
E33	866	392988	2638114	18	17
F33	867	392988	2638164	17	17
G33	868	392988	2638214	17	17
H33	869	392988	2638264	18	17
I33	870	392988	2638314	17	19
J33	871	392988	2638364	17	17
K33	872	392988	2638414	16	17
L33	873	392988	2638464	16	15
M33	874	392988	2638514	17	18
N33	875	392988	2638564	17	18
O33	876	392988	2638614	17	17
P33	877	392988	2638664	17	16
Q33	878	392988	2638714	18	17
R33	879	392988	2638764	17	17
S33	880	392988	2638814	17	16
T33	881	392988	2638864	15	14
U33	882	392988	2638914	15	15
V33	883	392988	2638964	17	16
W33	884	392988	2639014	14	14
X33	885	392988	2639064	16	15
Y33	886	392988	2639114	18	18
Z33	887	392988	2639164	17	15
AA33	888	392988	2639214	17	15
B34	889	393038	2637964	18	17
C34	890	393038	2638014	16	15
D34	891	393038	2638064	16	15
E34	892	393038	2638114	16	16
F34	893	393038	2638164	16	17
G34	894	393038	2638214	17	16

Grid Node	Point	Northing	Easting	Ground Reading (μ R/hr)	3 ft Reading (μ R/hr)
H34	895	393038	2638264	15	15
I34	896	393038	2638314	18	18
J34	897	393038	2638364	18	18
K34	898	393038	2638414	17	17
L34	899	393038	2638464	17	16
M34	900	393038	2638514	15	17
N34	901	393038	2638564	15	16
O34	902	393038	2638614	17	17
P34	903	393038	2638664	20	17
Q34	904	393038	2638714	16	18
R34	905	393038	2638764	17	17
S34	906	393038	2638814	17	17
T34	907	393038	2638864	17	19
U34	908	393038	2638914	17	18
V34	909	393038	2638964	17	16
W34	910	393038	2639014	17	16
X34	911	393038	2639064	17	16
Y34	912	393038	2639114	16	17
Z34	913	393038	2639164	16	15
AA34	914	393038	2639214	17	17
B35	915	393088	2637964	16	16
C35	916	393088	2638014	15	15
D35	917	393088	2638064	17	17
E35	918	393088	2638114	17	19
F35	919	393088	2638164	17	16
G35	920	393088	2638214	17	17
H235	921	393088	2638264	18	18
I35	922	393088	2638314	19	17
J35	923	393088	2638364	18	19
K35	924	393088	2638414	18	18
L35	925	393088	2638464	17	17
M35	926	393088	2638514	18	17
N35	927	393088	2638564	19	17
O35	928	393088	2638614	19	17
P35	929	393088	2638664	18	19
Q35	930	393088	2638714	18	17
R35	931	393088	2638764	18	17
S35	932	393088	2638814	20	19
T35	933	393088	2638864	19	18

Grid Node	Point	Northing	Easting	Ground Reading ($\mu\text{R/hr}$)	3 ft Reading ($\mu\text{R/hr}$)
U35	934	393088	2638914	17	17
V35	935	393088	2638964	17	18
W35	936	393088	2639014	16	17
X35	937	393088	2639064	17	16
Y35	938	393088	2639114	16	17
Z35	939	393088	2639164	16	16
AA35	940	393088	2639214	16	16
B36	941	393138	2637964	17	16
C36	942	393138	2638014	18	16
D36	943	393138	2638064	18	18
E36	944	393138	2638114	18	16
F36	945	393138	2638164	16	15
G36	946	393138	2638214	19	18
H36	947	393138	2638264	18	17
I36	948	393138	2638314	17	16
J36	949	393138	2638364	21	18
K36	950	393138	2638414	18	18
L36	951	393138	2638464	18	17
M36	952	393138	2638514	19	17
N36	953	393138	2638564	18	18
O36	954	393138	2638614	18	18
P36	955	393138	2638664	18	17
Q36	956	393138	2638714	18	18
R36	957	393138	2638764	18	17
S36	958	393138	2638814	18	16
T36	959	393138	2638864	18	18
U36	960	393138	2638914	17	17
V36	961	393138	2638964	18	17
W36	962	393138	2639014	18	17
X36	963	393138	2639064	17	15
Y36	964	393138	2639114	16	16
Z36	965	393138	2639164	14	15
AA36	966	393138	2639214	17	16
B37	967	393188	2637964	17	17
C37	968	393188	2638014	17	16
D37	969	393188	2638064	15	15
E37	970	393188	2638114	17	16
F37	971	393188	2638164	13	14
G37	972	393188	2638214	19	17

Grid Node	Point	Northing	Easting	Ground Reading (μ R/hr)	3 ft Reading (μ R/hr)
H37	973	393188	2638264	17	17
I37	974	393188	2638314	17	16
J37	975	393188	2638364	17	18
K37	976	393188	2638414	17	17
L37	977	393188	2638464	19	16
M37	978	393188	2638514	19	19
N37	979	393188	2638564	19	17
O37	980	393188	2638614	17	17
P37	981	393188	2638664	18	16
Q37	982	393188	2638714	17	16
R37	983	393188	2638764	16	16
S37	984	393188	2638814	19	19
T37	985	393188	2638864	18	15
U37	986	393188	2638914	16	16
V37	987	393188	2638964	17	17
W37	988	393188	2639014	14	14
X37	989	393188	2639064	19	15
Y37	990	393188	2639114	16	14
Z37	991	393188	2639164	17	16
AA37	992	393188	2639214	18	16
A38	993	393238	2637914	17	17
B38	994	393238	2637964	17	16
C38	995	393238	2638014	16	16
D38	996	393238	2638064	16	15
E38	997	393238	2638114	14	14
F38	998	393238	2638164	16	16
G38	999	393238	2638214	18	17
H38	1000	393238	2638264	18	17
I38	1001	393238	2638314	16	17
J38	1002	393238	2638364	17	15
K38	1003	393238	2638414	22	18
L38	1004	393238	2638464	17	17
M38	1005	393238	2638514	19	18
N38	1006	393238	2638564	16	17
O38	1007	393238	2638614	20	17
P38	1008	393238	2638664	17	16
Q38	1009	393238	2638714	19	18
R38	1010	393238	2638764	18	17
S38	1011	393238	2638814	17	17

Grid Node	Point	Northing	Easting	Ground Reading ($\mu\text{R/hr}$)	3 ft Reading ($\mu\text{R/hr}$)
T38	1012	393238	2638864	20	17
U38	1013	393238	2638914	19	20
V38	1014	393238	2638964	17	19
W38	1015	393238	2639014	16	15
X38	1016	393238	2639064	19	16
Y38	1017	393238	2639114	19	16
Z38	1018	393238	2639164	15	16
AA38	1019	393238	2639214	16	17
A39	1020	393288	2637914	16	14
B39	1021	393288	2637964	16	15
C39	1022	393288	2638014	16	16
D39	1023	393288	2638064	17	15
E39	1024	393288	2638114	16	17
F39	1025	393288	2638164	17	15
G39	1026	393288	2638214	17	17
H39	1027	393288	2638264	18	17
I39	1028	393288	2638314	18	17
J39	1029	393288	2638364	18	17
K39	1030	393288	2638414	18	16
L39	1031	393288	2638464	18	16
M39	1032	393288	2638514	19	18
N39	1033	393288	2638564	21	17
O39	1034	393288	2638614	19	17
P39	1035	393288	2638664	18	18
Q39	1036	393288	2638714	18	17
R39	1037	393288	2638764	20	18
S39	1038	393288	2638814	16	19
T39	1039	393288	2638864	19	19
U39	1040	393288	2638914	30	30
V39	1041	393288	2638964	20	20
W39	1042	393288	2639014	19	20
X39	1043	393288	2639064	18	16
Y39	1044	393288	2639114	17	19
Z39	1045	393288	2639164	18	19
AA39	1046	393288	2639214	20	19
A40	1047	393338	2637914	16	15
B40	1048	393338	2637964	16	16
C40	1049	393338	2638014	15	14
D40	1050	393338	2638064	14	14

Grid Node	Point	Northing	Easting	Ground Reading ($\mu\text{R/hr}$)	3 ft Reading ($\mu\text{R/hr}$)
E40	1051	393338	2638114	16	15
F40	1052	393338	2638164	16	15
G40	1053	393338	2638214	17	17
H40	1054	393338	2638264	18	16
I40	1055	393338	2638314	16	18
J40	1056	393338	2638364	17	20
K40	1057	393338	2638414	19	18
L40	1058	393338	2638464	16	16
M40	1059	393338	2638514	17	16
N40	1060	393338	2638564	18	18
O40	1061	393338	2638614	16	19
P40	1062	393338	2638664	17	17
Q40	1063	393338	2638714	19	18
R40	1064	393338	2638764	19	17
S40	1065	393338	2638814	20	18
T40	1066	393338	2638864	18	20
U40	1067	393338	2638914	38	33
V40	1068	393338	2638964	20	23
W40	1069	393338	2639014	20	21
X40	1070	393338	2639064	18	19
Y40	1071	393338	2639114	19	18
Z40	1072	393338	2639164	17	17
AA40	1073	393338	2639214	16	17
A41	1074	393388	2637914	20	20
B41	1075	393388	2637964	24	25
C41	1076	393388	2638014	18	18
D41	1077	393388	2638064	18	18
E41	1078	393388	2638114	15	16
F41	1079	393388	2638164	17	17
G41	1080	393388	2638214	18	16
H41	1081	393388	2638264	17	15
I41	1082	393388	2638314	18	17
J41	1083	393388	2638364	17	17
K41	1084	393388	2638414	20	17
L41	1085	393388	2638464	20	18
M41	1086	393388	2638514	19	16
N41	1087	393388	2638564	18	17
O41	1088	393388	2638614	17	16
P41	1089	393388	2638664	18	17

Grid Node	Point	Northing	Easting	Ground Reading ($\mu\text{R/hr}$)	3 ft Reading ($\mu\text{R/hr}$)
Q41	1090	393388	2638714	18	17
R41	1091	393388	2638764	21	18
S41	1092	393388	2638814	20	20
T41	1093	393388	2638864	20	17
U41	1094	393388	2638914	23	23
V41	1095	393388	2638964	22	21
W41	1096	393388	2639014	19	19
X41	1097	393388	2639064	17	17
Y41	1098	393388	2639114	21	20
Z41	1099	393388	2639164	19	18
AA41	1100	393388	2639214	20	18
A42	1101	393438	2637914	17	16
B42	1102	393438	2637964	18	15
C42	1103	393438	2638014	19	18
D42	1104	393438	2638064	13	13
E42	1105	393438	2638114	14	16
F42	1106	393438	2638164	14	14
G422	1107	393438	2638214	17	16
H42	1108	393438	2638264	18	15
I42	1109	393438	2638314	18	14
J42	1110	393438	2638364	18	16
K42	1111	393438	2638414	17	16
L42	1112	393438	2638464	17	16
M42	1113	393438	2638514	17	17
N42	1114	393438	2638564	17	17
O42	1115	393438	2638614	21	18
P42	1116	393438	2638664	16	18
Q42	1117	393438	2638714	18	17
R42	1118	393438	2638764	18	17
S42	1119	393438	2638814	19	18
T42	1120	393438	2638864	20	18
U42	1121	393438	2638914	29	28
V42	1122	393438	2638964	25	30
W42	1123	393438	2639014	24	23
X42	1124	393438	2639064	16	17
Y42	1125	393438	2639114	17	19
Z42	1126	393438	2639164	17	22
AA42	1127	393438	2639214	19	16
A43	1128	393488	2637914	18	17

Grid Node	Point	Northing	Easting	Ground Reading ($\mu\text{R/hr}$)	3 ft Reading ($\mu\text{R/hr}$)
B43	1129	393488	2637964	17	19
C43	1130	393488	2638014	18	18
D43	1131	393488	2638064	19	19
E43	1132	393488	2638114	17	18
F43	1133	393488	2638164	18	18
G43	1134	393488	2638214	16	17
H43	1135	393488	2638264	18	19
I43	1136	393488	2638314	16	17
J43	1137	393488	2638364	16	16
K43	1138	393488	2638414	17	18
L43	1139	393488	2638464	18	19
M43	1140	393488	2638514	16	17
N43	1141	393488	2638564	17	18
O43	1142	393488	2638614	18	18
P43	1143	393488	2638664	18	16
Q43	1144	393488	2638714	17	19
R43	1145	393488	2638764	18	19
S43	1146	393488	2638814	20	19
T43	1147	393488	2638864	21	22
U43	1148	393488	2638914	25	28
V43	1149	393488	2638964	60	57
W43	1150	393488	2639014	63	53
X43	1151	393488	2639064	26	25
Y43	1152	393488	2639114	21	18
Z43	1153	393488	2639164	18	17
AA43	1154	393488	2639214	17	19
A44	1155	393538	2637914	16	18
B44	1156	393538	2637964	17	20
C44	1157	393538	2638014	18	18
D44	1158	393538	2638064	16	16
E44	1159	393538	2638114	17	16
F44	1160	393538	2638164	17	18
G44	1161	393538	2638214	16	19
H44	1162	393538	2638264	17	17
I44	1163	393538	2638314	19	18
J44	1164	393538	2638364	19	17
K44	1165	393538	2638414	17	18
L44	1166	393538	2638464	18	20
M44	1167	393538	2638514	16	17

Grid Node	Point	Northing	Easting	Ground Reading (μ R/hr)	3 ft Reading (μ R/hr)
N44	1168	393538	2638564	18	19
O44	1169	393538	2638614	20	21
P44	1170	393538	2638664	19	19
Q44	1171	393538	2638714	19	17
R44	1172	393538	2638764	19	19
S44	1173	393538	2638814	19	17
T44	1174	393538	2638864	20	20
U44	1175	393538	2638914	24	25
V44	1176	393538	2638964	85	90
W44	1177	393538	2639014	32	32
X44	1178	393538	2639064	32	30
Y44	1179	393538	2639114	18	20
Z44	1180	393538	2639164	17	18
AA44	1181	393538	2639214	17	20
A45	1182	393588	2637914	-	-
B45	1183	393588	2637964	-	-
C45	1184	393588	2638014	-	-
D45	1185	393588	2638064	16	15
E45	1186	393588	2638114	16	16
F45	1187	393588	2638164	17	16
G45	1188	393588	2638214	17	15
H45	1189	393588	2638264	16	16
I45	1190	393588	2638314	16	16
J45	1191	393588	2638364	14	14
K45	1192	393588	2638414	16	16
L45	1193	393588	2638464	15	15
M45	1194	393588	2638514	17	16
N45	1195	393588	2638564	16	15
O45	1196	393588	2638614	15	14
P45	1197	393588	2638664	16	17
Q45	1198	393588	2638714	19	19
R45	1199	393588	2638764	17	17
S45	1200	393588	2638814	17	17
T45	1201	393588	2638864	20	20
U45	1202	393588	2638914	21	24
V45	12023	393588	2638964	23	25
W45	1204	393588	2639014	120	130
X45	1205	393588	2639064	90	120
Y45	1206	393588	2639114	25	21

Grid Node	Point	Northing	Easting	Ground Reading (μ R/hr)	3 ft Reading (μ R/hr)
Z45	1207	393588	2639164	19	20
AA45	1208	393588	2639214	20	17
B46	1209	393638	2637964	-	-
C46	1210	393638	2638014	-	-
D46	1211	393638	2638064	-	-
E46	1212	393638	2638114	16	15
F46	1213	393638	2638164	17	15
G46	1214	393638	2638214	17	18
H46	1215	393638	2638264	17	16
I46	1216	393638	2638314	15	14
J46	1217	393638	2638364	15	14
K46	1218	393638	2638414	16	14
L46	1219	393638	2638464	14	15
M46	1220	393638	2638514	14	14
N46	1221	393638	2638564	14	15
O46	1222	393638	2638614	15	14
P46	1223	393638	2638664	16	15
Q46	1224	393638	2638714	19	17
R46	1225	393638	2638764	17	17
S46	1226	393638	2638814	16	16
T46	1227	393638	2638864	17	17
U46	1228	393638	2638914	20	20
V46	1229	393638	2638964	19	20
W46	1230	393638	2639014	80	70
X46	1231	393638	2639064	21	23
Y46	1232	393638	2639114	26	26
Z46	1233	393638	2639164	25	22
AA46	1234	393638	2639214	19	17
C47	1235	393688	2638014	-	-
D47	1236	393688	2638064	16	15
E47	1237	393688	2638114	15	14
F47	1238	393688	2638164	16	15
G47	1239	393688	2638214	16	16
H47	1240	393688	2638264	15	15
I47	1241	393688	2638314	16	17
J47	1242	393688	2638364	15	14
K47	1243	393688	2638414	14	14
L47	1244	393688	2638464	15	14
M47	1245	393688	2638514	16	17

Grid Node	Point	Northing	Easting	Ground Reading (μ R/hr)	3 ft Reading (μ R/hr)
N47	1246	393688	2638564	15	14
O47	1247	393688	2638614	16	14
P47	1248	393688	2638664	15	14
Q47	1249	393688	2638714	15	15
R47	1250	393688	2638764	15	15
S47	1251	393688	2638814	15	15
T47	1252	393688	2638864	16	16
U47	1253	393688	2638914	19	19
V47	1254	393688	2638964	17	18
W47	1255	393688	2639014	23	21
X47	1256	393688	2639064	40	35
Y47	1257	393688	2639114	32	30
Z47	1258	393688	2639164	38	38
AA47	1259	393688	2639214	22	22
D48	1260	393738	2638064	15	14
E48	1261	393738	2638114	16	15
F48	1262	393738	2638164	14	15
G48	1263	393738	2638214	14	15
H48	1264	393738	2638264	15	14
I48	1265	393738	2638314	15	13
J48	1266	393738	2638364	16	15
K48	1267	393738	2638414	16	17
L48	1268	393738	2638464	14	13
M48	1269	393738	2638514	15	15
N48	1270	393738	2638564	13	13
O48	1271	393738	2638614	15	14
P48	1272	393738	2638664	16	15
Q48	1273	393738	2638714	15	15
R48	1274	393738	2638764	15	15
S48	1275	393738	2638814	16	16
T48	1276	393738	2638864	16	15
U48	1277	393738	2638914	18	18
V48	1278	393738	2638964	18	19
W48	1279	393738	2639014	17	21
X48	1280	393738	2639064	34	35
Y48	1281	393738	2639114	50	52
Z48	1282	393738	2639164	60	60
AA48	1283	393738	2639214	26	30
E49	1284	393788	2638114	-	-

Grid Node	Point	Northing	Easting	Ground Reading ($\mu\text{R/hr}$)	3 ft Reading ($\mu\text{R/hr}$)
F49	1285	393788	2638164	-	-
G48	1286	393788	2638214	14	14
H49	1287	393788	2638264	17	15
I49	1288	393788	2638314	15	15
J49	1289	393788	2638364	13	12
K49	1290	393788	2638414	14	14
L49	1291	393788	2638464	14	15
M49	1292	393788	2638514	14	13
N49	1293	393788	2638564	14	14
O49	1294	393788	2638614	16	13
P49	1295	393788	2638664	15	13
Q49	1296	393788	2638714	15	15
R49	1297	393788	2638764	15	15
S49	1298	393788	2638814	15	15
T49	1299	393788	2638864	15	15
U49	1300	393788	2638914	16	16
V49	1301	393788	2638964	18	16
W49	1302	393788	2639014	20	20
X49	1303	393788	2639064	25	28
Y49	1304	393788	2639114	130	90
Z49	1305	393788	2639164	60	50
AA49	1306	393788	2639214	45	40
E50	1307	393838	2638114	-	-
F50	1308	393838	2638164	-	-
G50	1309	393838	2638214	15	15
H50	1310	393838	2638264	14	14
I50	1311	393838	2638314	14	15
J50	1312	393838	2638364	12	12
K50	1313	393838	2638414	15	15
L50	1314	393838	2638464	14	14
M50	1315	393838	2638514	15	12
N50	1316	393838	2638564	15	15
O50	1317	393838	2638614	14	14
P50	1318	393838	2638664	15	15
Q50	1319	393838	2638714	15	15
R50	1320	393838	2638764	15	15
S50	1321	393838	2638814	15	15
T50	1322	393838	2638864	15	15
U50	1323	393838	2638914	18	16

Grid Node	Point	Northing	Easting	Ground Reading ($\mu\text{R/hr}$)	3 ft Reading ($\mu\text{R/hr}$)
V50	1324	393838	2638964	17	17
W50	1325	393838	2639014	20	22
X50	1326	393838	2639064	65	60
Y50	1327	393838	2639114	60	70
Z50	1328	393838	2639164	25	25
AA50	1329	393838	2639214	49	47
F51	1330	393888	2638164	-	-
G51	1331	393888	2638214	-	-
H51	1332	393888	2638264	13	13
I51	1333	393888	2638314	14	12
J51	1334	393888	2638364	12	14
K51	1335	393888	2638414	14	12
L51	1336	393888	2638464	12	12
M51	1337	393888	2638514	14	12
N51	1338	393888	2638564	14	12
O51	1339	393888	2638614	14	14
P51	1340	393888	2638664	14	14
Q51	1341	393888	2638714	15	13
R51	1342	393888	2638764	15	15
S51	1343	393888	2638814	15	14
T51	1344	393888	2638864	15	15
U51	1345	393888	2638914	17	18
V51	1346	393888	2638964	20	18
W51	1347	393888	2639014	21	20
X51	1348	393888	2639064	31	39
Y51	1349	393888	2639114	30	27
Z51	1350	393888	2639164	20	23
AA51	1351	393888	2639214	-	-
G52	1352	393938	2638214	-	-
H52	1353	393938	2638264	12	12
I52	1354	393938	2638314	14	12
J52	1355	393938	2638364	12	12
K52	1356	393938	2638414	14	14
L52	1357	393938	2638464	14	12
M52	1358	393938	2638514	13	13
N52	1359	393938	2638564	14	12
O52	1360	393938	2638614	14	14
P52	1361	393938	2638664	14	12
Q52	1362	393938	2638714	15	13

Grid Node	Point	Northing	Easting	Ground Reading (μR/hr)	3 ft Reading (μR/hr)
R52	1363	393938	2638764	13	13
S52	1364	393938	2638814	13	13
T52	1365	393938	2638864	15	12
U52	1366	393938	2638914	14	13
V52	1367	393938	2638964	15	14
W52	1368	393938	2639014	15	15
X52	1369	393938	2639064	17	17
Y52	1370	393938	2639114	17	17
Z52	1371	393938	2639164	15	15
AA52	1372	393938	2639214	35	33
S53	1373	393988	2638814	12	12
T53	1374	393988	2638864	14	13
U53	1375	393988	2638914	13	13
V53	1376	393988	2638964	12	13
W53	1377	393988	2639014	13	13
X53	1378	393988	2639064	15	15
Y53	1379	393988	2639114	16	15
Z53	1380	393988	2639164	15	15
AA53	1381	393988	2639214	15	14