

**Z-AREA GROUNDWATER MONITORING REPORT FOR 2008 (U)**  
**SRNS-TR-2008-00310**  
**January 9, 2009**

Introduction

In accordance with SRS Z-Area Saltstone Industrial Solid Waste Permit, #025500-1603, eight Z Area monitoring wells (figure 1) were sampled during the first and third quarters of 2008. Samples were analyzed for:

- pH
- Specific Conductance
- Water level
- Nitrate/nitrite as Nitrogen
- Gross alpha
- Beta/positron emitters
- I-129
- Tritium

The 2008 analytical results are presented in table 1. The sampling did not reveal evidence of any previously unknown releases from the Saltstone vaults.

Flow Direction and Rate

Potentiometric surface maps for the water table aquifer were constructed using first and third quarter data. Flow rates for both sampling events can be estimated using the following equation:

$$\text{Flow(ft/day)} = \frac{\text{Hydraulic Conductivity (ft/day)}}{\text{Porosity (unitless)}} \times \frac{dh(\text{ft})}{dl(\text{ft})}$$

where the hydraulic conductivity is 1.7 ft/day, the effective porosity value is 30 percent, the change in head is dh, and the horizontal distance is simply the distance between the 220' and 230' potentiometric contour (figures 2 and 3).

The calculation is as follows:

$$\frac{1.7 \text{ ft/day}}{0.30} \times \frac{10 \text{ ft}}{500 \text{ ft}} = 0.1 \text{ ft/day or } 36.5 \text{ ft/year}$$

Analytical results

The nitrate/nitrite results are considered particularly important in determining whether or not an unexpected release is occurring. This is because nitrate is a very mobile constituent that is likely to leach from saltstone. As in past years, nitrate/nitrite was detected in the downgradient wells, but higher concentrations were found in background well ZBG-1. Therefore, the downgradient detections do not represent evidence of a release from the vaults.

In 2007, well ZBG 6 yielded unexpectedly high results for tritium (5.36 pCi/ml in March and 5.06 pCi/ml in September). The drinking water standard for tritium is 20 pCi/ml. The 2008 tritium results for ZBG 6 were 4.66 pCi/ml in March and 4.98 pCi/ml in July. The tritium in ZBG 6 may be a result of well-documented leaks that occurred at Vault 1 in 1994. The leaking water was contaminated with tritium, and ZBG 6 is located close to the leak site.

Conclusions

The ZBG well series was sampled twice during 2008. The sampling did not reveal evidence of new releases from the saltstone vaults. Tritium in one well, ZBG 6, may be evidence that contamination from a 1994 leak at Vault 1 has now reached the watertable. This was not unexpected.

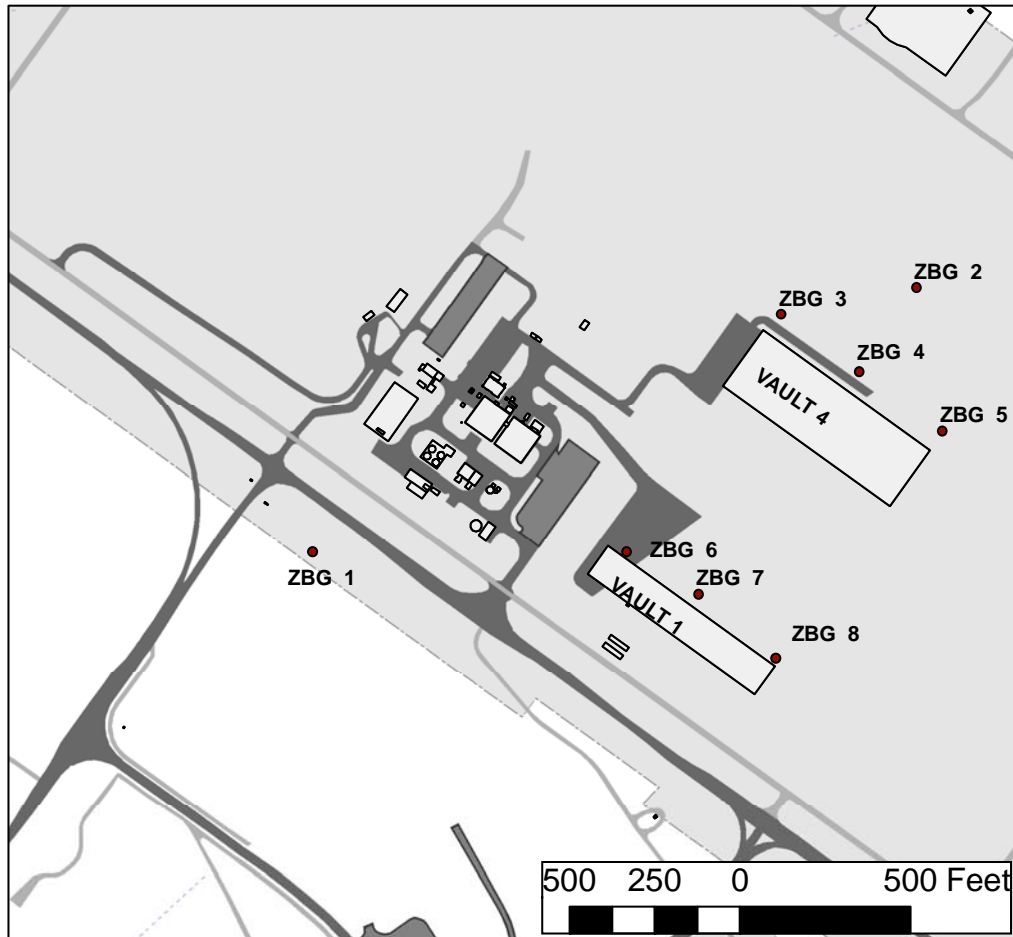


Figure 1. Locations of Z Area wells.

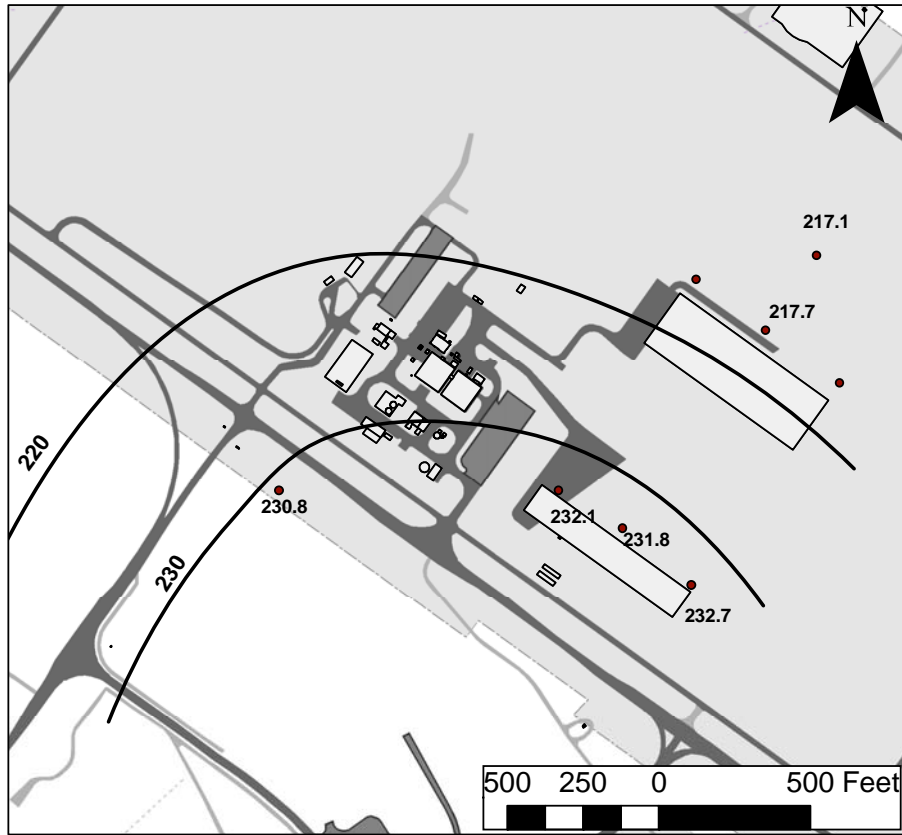


Figure 2. Water elevation data in Z-Area for first quarter of 2008.

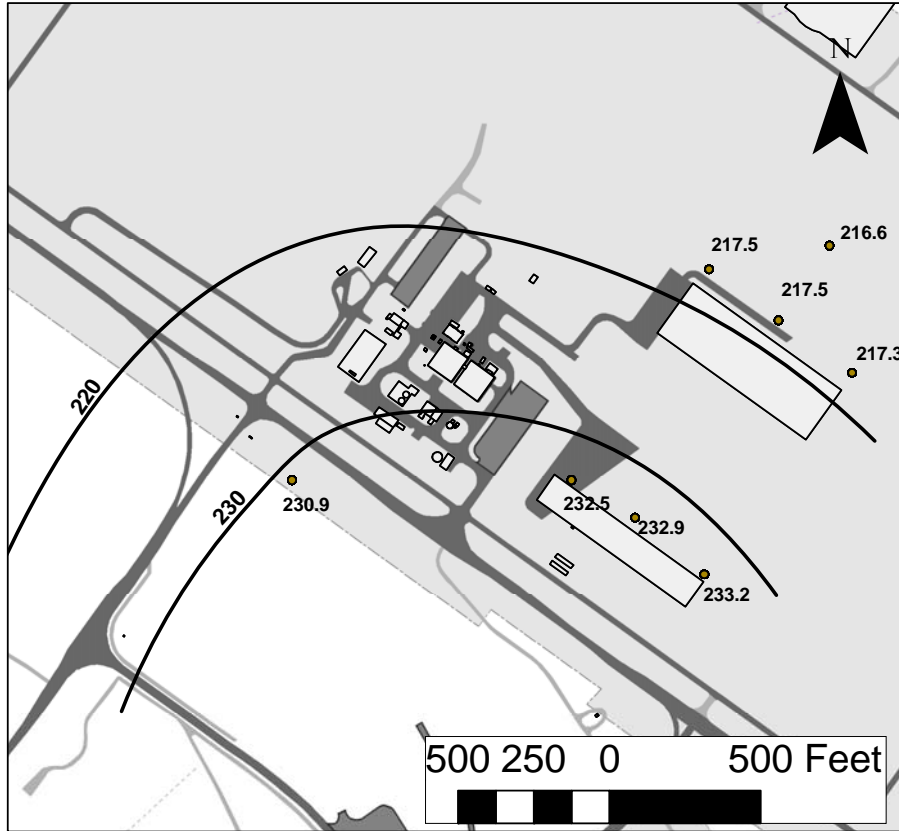


Figure 3. Water elevation data in Z-Area for third quarter of 2008.

Table 1. Monitoring data.

WELL	DATE	ANALYTE_NAME	METHOD	MDL	PQL	LAB QUAL	RESULT	UNIT
ZBG 1	3/19/2008	ACTINIUM-228	L3.21-10021	33.2	68	U	2.58	pCi/L
ZBG 1	3/19/2008	ACTINIUM-228	L3.21-10021	35.5	73.7	U	0.723	pCi/L
ZBG 1	7/22/2008	ACTINIUM-228	L3.21-10021	45.9	94.2	U	14.1	pCi/L
ZBG 1	7/22/2008	ACTINIUM-228	L3.21-10021	44.2	95	U	-6.47	pCi/L
ZBG 2	3/28/2008	ACTINIUM-228	L3.21-10021	35.9	74.6	U	-6.99	pCi/L
ZBG 2	3/28/2008	ACTINIUM-228	L3.21-10021	38.5	81.2	U	-10.8	pCi/L
ZBG 2	7/23/2008	ACTINIUM-228	L3.21-10021	39.8	84.4	U	-4.6	pCi/L
ZBG 2	7/23/2008	ACTINIUM-228	L3.21-10021	38.3	79.4	U	3.84	pCi/L
ZBG 3	3/28/2008	ACTINIUM-228	L3.21-10021	34.3	74.7	U	-23.3	pCi/L
ZBG 3	8/26/2008	ACTINIUM-228	L3.21-10021	41.6	87.8	U	-16.5	pCi/L
ZBG 4	3/28/2008	ACTINIUM-228	L3.21-10021	38.5	77.2	U	8.24	pCi/L
ZBG 4	8/26/2008	ACTINIUM-228	L3.21-10021	42.8	88.4	U	-6.24	pCi/L
ZBG 5	5/15/2008	ACTINIUM-228	L3.21-10021	42.5	86.9	U	13.1	pCi/L
ZBG 5	5/15/2008	ACTINIUM-228	L3.21-10021	38.5	77.1	U	15.5	pCi/L
ZBG 5	7/23/2008	ACTINIUM-228	L3.21-10021	29.3	65	U	-20.1	pCi/L
ZBG 6	3/18/2008	ACTINIUM-228	L3.21-10021	41.5	85	U	12.7	pCi/L
ZBG 6	3/18/2008	ACTINIUM-228	L3.21-10021	41.2	85.4	U	6.56	pCi/L
ZBG 6	7/22/2008	ACTINIUM-228	L3.21-10021	51.4	108	U	11.3	pCi/L
ZBG 7	3/18/2008	ACTINIUM-228	L3.21-10021	39.6	86.1	U	-17.1	pCi/L
ZBG 7	7/22/2008	ACTINIUM-228	L3.21-10021	44.1	92.6	U	3.31	pCi/L
ZBG 8	3/18/2008	ACTINIUM-228	L3.21-10021	44.5	105	U	30.9	pCi/L
ZBG 8	7/22/2008	ACTINIUM-228	L3.21-10021	44.1	95.1	U	-8.3	pCi/L
ZBG 1	3/19/2008	AMERICIUM-241	L3.21-10005	31.7	68.9	U	-13.6	pCi/L
ZBG 1	3/19/2008	AMERICIUM-241	L3.21-10005	28.3	62.9	U	-26.7	pCi/L
ZBG 1	7/22/2008	AMERICIUM-241	L3.21-10005	90.1	196	U	-11.1	pCi/L
ZBG 1	7/22/2008	AMERICIUM-241	L3.21-10005	87	187	U	11.1	pCi/L
ZBG 2	3/28/2008	AMERICIUM-241	L3.21-10005	32.5	72.3	U	-32.3	pCi/L
ZBG 2	3/28/2008	AMERICIUM-241	L3.21-10005	38.1	82.6	U	-11	pCi/L
ZBG 3	3/28/2008	AMERICIUM-241	L3.21-10005	33.9	74.7	U	-25.1	pCi/L
ZBG 4	3/28/2008	AMERICIUM-241	L3.21-10005	32.7	72.2	U	-25.8	pCi/L
ZBG 5	5/15/2008	AMERICIUM-241	L3.21-10005	28	60.1	U	2.85	pCi/L
ZBG 5	5/15/2008	AMERICIUM-241	L3.21-10005	30	64.1	U	8.2	pCi/L
ZBG 6	3/18/2008	AMERICIUM-241	L3.21-10005	38.2	81.2	U	22.8	pCi/L
ZBG 6	3/18/2008	AMERICIUM-241	L3.21-10005	34.9	77.1	U	-17.1	pCi/L
ZBG 6	7/22/2008	AMERICIUM-241	L3.21-10005	109	239	U	-11.2	pCi/L
ZBG 7	3/18/2008	AMERICIUM-241	L3.21-10005	35.3	77.1	U	-5.62	pCi/L
ZBG 7	7/22/2008	AMERICIUM-241	L3.21-10005	101	222	U	-21	pCi/L
ZBG 8	3/18/2008	AMERICIUM-241	L3.21-10005	38.3	83.5	U	-5.75	pCi/L
ZBG 8	7/22/2008	AMERICIUM-241	L3.21-10005	119	257	U	16.3	pCi/L
ZBG 1	3/19/2008	ANTIMONY-125	L3.21-10021	24.1	51.9	U	2.84	pCi/L
ZBG 1	3/19/2008	ANTIMONY-125	L3.21-10021	23.5	49.1	U	11.1	pCi/L
ZBG 1	7/22/2008	ANTIMONY-125	L3.21-10021	26.1	60.3	U	-20.3	pCi/L

WELL	DATE	ANALYTE_NAME	METHOD	MDL	PQL	LAB QUAL	RESULT	UNIT
ZBG 1	7/22/2008	ANTIMONY-125	L3.21-10021	28.8	61.9	U	2.75	pCi/L
ZBG 2	3/28/2008	ANTIMONY-125	L3.21-10021	23.9	51.2	U	4.36	pCi/L
ZBG 2	3/28/2008	ANTIMONY-125	L3.21-10021	26.9	57.7	U	6.49	pCi/L
ZBG 2	7/23/2008	ANTIMONY-125	L3.21-10021	28.3	59.9	U	9.95	pCi/L
ZBG 2	7/23/2008	ANTIMONY-125	L3.21-10021	28.5	59.6	U	16.2	pCi/L
ZBG 3	3/28/2008	ANTIMONY-125	L3.21-10021	22.3	49.3	U	-5.22	pCi/L
ZBG 3	8/26/2008	ANTIMONY-125	L3.21-10021	28.8	61.3	U	7.95	pCi/L
ZBG 4	3/28/2008	ANTIMONY-125	L3.21-10021	23.6	52.1	U	-4.52	pCi/L
ZBG 4	8/26/2008	ANTIMONY-125	L3.21-10021	27.1	60.5	U	-10.6	pCi/L
ZBG 5	5/15/2008	ANTIMONY-125	L3.21-10021	23.5	50.9	U	-2.58	pCi/L
ZBG 5	5/15/2008	ANTIMONY-125	L3.21-10021	22.8	48.6	U	1.79	pCi/L
ZBG 5	7/23/2008	ANTIMONY-125	L3.21-10021	24.5	52.6	U	0.886	pCi/L
ZBG 6	3/18/2008	ANTIMONY-125	L3.21-10021	27.4	58.7	U	4.31	pCi/L
ZBG 6	3/18/2008	ANTIMONY-125	L3.21-10021	26.2	56.7	U	-1.23	pCi/L
ZBG 6	7/22/2008	ANTIMONY-125	L3.21-10021	32.1	69.3	U	3.33	pCi/L
ZBG 7	3/18/2008	ANTIMONY-125	L3.21-10021	28.1	58.7	U	15.7	pCi/L
ZBG 7	7/22/2008	ANTIMONY-125	L3.21-10021	29.7	64.5	U	-0.839	pCi/L
ZBG 8	3/18/2008	ANTIMONY-125	L3.21-10021	28.2	62.3	U	-10.6	pCi/L
ZBG 8	7/22/2008	ANTIMONY-125	L3.21-10021	34.7	74.1	U	10.5	pCi/L
ZBG 1	3/19/2008	BARIUM-133	L3.21-10021	11.8	25.4	U	2.35	pCi/L
ZBG 1	3/19/2008	BARIUM-133	L3.21-10021	11.7	25.2	U	2.34	pCi/L
ZBG 1	7/22/2008	BARIUM-133	L3.21-10021	13.6	31.3	U	1.47	pCi/L
ZBG 1	7/22/2008	BARIUM-133	L3.21-10021	13.5	30.9	U	2.84	pCi/L
ZBG 2	3/28/2008	BARIUM-133	L3.21-10021	10.5	26.7	U	-8.96	pCi/L
ZBG 2	3/28/2008	BARIUM-133	L3.21-10021	11.9	27.9	U	-0.598	pCi/L
ZBG 2	7/23/2008	BARIUM-133	L3.21-10021	11.6	27	U	-0.983	pCi/L
ZBG 2	7/23/2008	BARIUM-133	L3.21-10021	13	29.3	U	5.72	pCi/L
ZBG 3	3/28/2008	BARIUM-133	L3.21-10021	10.4	26	U	-7.55	pCi/L
ZBG 3	8/26/2008	BARIUM-133	L3.21-10021	13.8	31.7	U	2.05	pCi/L
ZBG 4	3/28/2008	BARIUM-133	L3.21-10021	11.5	26.5	U	2.06	pCi/L
ZBG 4	8/26/2008	BARIUM-133	L3.21-10021	12.8	29.8	U	0.301	pCi/L
ZBG 5	5/15/2008	BARIUM-133	L3.21-10021	11.2	23.9	U	1.17	pCi/L
ZBG 5	5/15/2008	BARIUM-133	L3.21-10021	10.9	23.7	U	-2.74	pCi/L
ZBG 5	7/23/2008	BARIUM-133	L3.21-10021	11.8	27.3	U	-12.1	pCi/L
ZBG 6	3/18/2008	BARIUM-133	L3.21-10021	12.5	28.6	U	2	pCi/L
ZBG 6	3/18/2008	BARIUM-133	L3.21-10021	13.4	30.1	U	5.79	pCi/L
ZBG 6	7/22/2008	BARIUM-133	L3.21-10021	16.1	38.8	U	-5.63	pCi/L
ZBG 7	3/18/2008	BARIUM-133	L3.21-10021	12.4	29.2	U	-3.17	pCi/L
ZBG 7	7/22/2008	BARIUM-133	L3.21-10021	14.2	33	U	-0.0881	pCi/L
ZBG 8	3/18/2008	BARIUM-133	L3.21-10021	12.6	29.2	U	0.167	pCi/L
ZBG 8	7/22/2008	BARIUM-133	L3.21-10021	16.8	37.4	U	11.5	pCi/L
ZBG 1	3/19/2008	BISMUTH-214	L3.21-10021	19.5	40.8	U	-2.93	pCi/L
ZBG 1	3/19/2008	BISMUTH-214	L3.21-10021	17.4	37.1	U	-8.18	pCi/L
ZBG 1	7/22/2008	BISMUTH-214	L3.21-10021	19.4	74.5		91.4	pCi/L
ZBG 1	7/22/2008	BISMUTH-214	L3.21-10021	19.8	67		92.2	pCi/L
ZBG 2	3/28/2008	BISMUTH-214	L3.21-10021	15.8	53.9		69.8	pCi/L
ZBG 2	3/28/2008	BISMUTH-214	L3.21-10021	20.1	80.7		217	pCi/L
ZBG 2	7/23/2008	BISMUTH-214	L3.21-10021	14.6	81.2		226	pCi/L
ZBG 2	7/23/2008	BISMUTH-214	L3.21-10021	17.7	76.5		179	pCi/L
ZBG 3	3/28/2008	BISMUTH-214	L3.21-10021	17.1	66.5		109	pCi/L



WELL	DATE	ANALYTE_NAME	METHOD	MDL	PQL	LAB QUAL	RESULT	UNIT
ZBG 3	8/26/2008	BISMUTH-214	L3.21-10021	20.1	81.5		192	pCi/L
ZBG 4	3/28/2008	BISMUTH-214	L3.21-10021	17.4	67.1		73.7	pCi/L
ZBG 4	8/26/2008	BISMUTH-214	L3.21-10021	20.4	70.3		107	pCi/L
ZBG 5	5/15/2008	BISMUTH-214	L3.21-10021	20	41.9	U	6.02	pCi/L
ZBG 5	5/15/2008	BISMUTH-214	L3.21-10021	19.3	41.6	U	-2.87	pCi/L
ZBG 5	7/23/2008	BISMUTH-214	L3.21-10021	22.7	47.7	U	6.88	pCi/L
ZBG 6	3/18/2008	BISMUTH-214	L3.21-10021	17.5	101		318	pCi/L
ZBG 6	3/18/2008	BISMUTH-214	L3.21-10021	19.7	101		310	pCi/L
ZBG 6	7/22/2008	BISMUTH-214	L3.21-10021	21.4	125		408	pCi/L
ZBG 7	3/18/2008	BISMUTH-214	L3.21-10021	17.9	90.8		277	pCi/L
ZBG 7	7/22/2008	BISMUTH-214	L3.21-10021	20.5	90.7		196	pCi/L
ZBG 8	3/18/2008	BISMUTH-214	L3.21-10021	16.6	109		403	pCi/L
ZBG 8	7/22/2008	BISMUTH-214	L3.21-10021	23.9	133		428	pCi/L
ZBG 1	3/19/2008	CESIUM-134	L3.21-10021	8.27	18.3	U	-4.6	pCi/L
ZBG 1	3/19/2008	CESIUM-134	L3.21-10021	8.11	17.2	U	-0.355	pCi/L
ZBG 1	7/22/2008	CESIUM-134	L3.21-10021	9.86	21.4	U	3.98	pCi/L
ZBG 1	7/22/2008	CESIUM-134	L3.21-10021	9.06	20.1	U	1.57	pCi/L
ZBG 2	3/28/2008	CESIUM-134	L3.21-10021	7.62	17.8	U	-1.85	pCi/L
ZBG 2	3/28/2008	CESIUM-134	L3.21-10021	9.15	20.2	U	3.36	pCi/L
ZBG 2	7/23/2008	CESIUM-134	L3.21-10021	7.31	17.2	U	-2.51	pCi/L
ZBG 2	7/23/2008	CESIUM-134	L3.21-10021	8.92	19.9	U	1.75	pCi/L
ZBG 3	3/28/2008	CESIUM-134	L3.21-10021	8.85	19.9	U	1.57	pCi/L
ZBG 3	8/26/2008	CESIUM-134	L3.21-10021	9.64	21.8	U	1.29	pCi/L
ZBG 4	3/28/2008	CESIUM-134	L3.21-10021	8.94	20.7	U	-0.757	pCi/L
ZBG 4	8/26/2008	CESIUM-134	L3.21-10021	9.27	21.5	U	-0.721	pCi/L
ZBG 5	5/15/2008	CESIUM-134	L3.21-10021	8.06	17.7	U	-1.55	pCi/L
ZBG 5	5/15/2008	CESIUM-134	L3.21-10021	8.06	17.7	U	-1.33	pCi/L
ZBG 5	7/23/2008	CESIUM-134	L3.21-10021	8.22	18.7	U	-8.53	pCi/L
ZBG 6	3/18/2008	CESIUM-134	L3.21-10021	9.1	21.9	U	-2.22	pCi/L
ZBG 6	3/18/2008	CESIUM-134	L3.21-10021	8.64	20.4	U	-0.613	pCi/L
ZBG 6	7/22/2008	CESIUM-134	L3.21-10021	10.2	23.3	U	-0.27	pCi/L
ZBG 7	3/18/2008	CESIUM-134	L3.21-10021	8.26	20.5	U	-4.54	pCi/L
ZBG 7	7/22/2008	CESIUM-134	L3.21-10021	10.4	23.3	U	2.33	pCi/L
ZBG 8	3/18/2008	CESIUM-134	L3.21-10021	8.76	21.4	U	-3.51	pCi/L
ZBG 8	7/22/2008	CESIUM-134	L3.21-10021	11	25.1	U	1.01	pCi/L
ZBG 1	3/19/2008	CESIUM-137	L3.21-10021	8.93	18.4	U	1.98	pCi/L
ZBG 1	3/19/2008	CESIUM-137	L3.21-10021	8.18	17	U	0.642	pCi/L
ZBG 1	7/22/2008	CESIUM-137	L3.21-10021	11.1	22.8	U	3.57	pCi/L
ZBG 1	7/22/2008	CESIUM-137	L3.21-10021	9.85	20.5	U	0.767	pCi/L
ZBG 2	3/28/2008	CESIUM-137	L3.21-10021	8.6	18.4	U	-1.4	pCi/L
ZBG 2	3/28/2008	CESIUM-137	L3.21-10021	10	21.4	U	-1.07	pCi/L
ZBG 2	7/23/2008	CESIUM-137	L3.21-10021	9.62	20.8	U	-3.38	pCi/L
ZBG 2	7/23/2008	CESIUM-137	L3.21-10021	9.25	19.9	U	-2.61	pCi/L
ZBG 3	3/28/2008	CESIUM-137	L3.21-10021	10.1	20.6	U	3.83	pCi/L
ZBG 3	8/26/2008	CESIUM-137	L3.21-10021	9.9	22.2	U	-5.81	pCi/L
ZBG 4	3/28/2008	CESIUM-137	L3.21-10021	9.09	19.4	U	-1.23	pCi/L
ZBG 4	8/26/2008	CESIUM-137	L3.21-10021	10.6	22.7	U	-0.73	pCi/L
ZBG 5	5/15/2008	CESIUM-137	L3.21-10021	9.31	19.4	U	0.849	pCi/L
ZBG 5	5/15/2008	CESIUM-137	L3.21-10021	9.3	19.2	U	2	pCi/L
ZBG 5	7/23/2008	CESIUM-137	L3.21-10021	8.73	18.1	U	0.968	pCi/L

WELL	DATE	ANALYTE_NAME	METHOD	MDL	PQL	LAB QUAL	RESULT	UNIT
ZBG 6	3/18/2008	CESIUM-137	L3.21-10021	9.55	21.9	U	-0.916	pCi/L
ZBG 6	3/18/2008	CESIUM-137	L3.21-10021	9.87	21.1	U	-1.96	pCi/L
ZBG 6	7/22/2008	CESIUM-137	L3.21-10021	11.4	28.6	U	-8.96	pCi/L
ZBG 7	3/18/2008	CESIUM-137	L3.21-10021	8.77	20.3	U	-1.73	pCi/L
ZBG 7	7/22/2008	CESIUM-137	L3.21-10021	11.5	25.4	U	-5.09	pCi/L
ZBG 8	3/18/2008	CESIUM-137	L3.21-10021	10.3	23.4	U	-0.0642	pCi/L
ZBG 8	7/22/2008	CESIUM-137	L3.21-10021	13.2	28.6	U	-3.1	pCi/L
ZBG 2	3/28/2008	COBALT-58	L3.21-10021	7.63	16.8	U	-3.38	pCi/L
ZBG 2	3/28/2008	COBALT-58	L3.21-10021	9.02	19.4	U	-1.55	pCi/L
ZBG 3	3/28/2008	COBALT-58	L3.21-10021	9.05	18.5	U	2.67	pCi/L
ZBG 4	3/28/2008	COBALT-58	L3.21-10021	7.07	15.9	U	-4.03	pCi/L
ZBG 1	3/19/2008	COBALT-60	L3.21-10021	9.35	18.6	U	3.82	pCi/L
ZBG 1	3/19/2008	COBALT-60	L3.21-10021	9.04	18	U	3.16	pCi/L
ZBG 1	7/22/2008	COBALT-60	L3.21-10021	11.4	23	U	2.16	pCi/L
ZBG 1	7/22/2008	COBALT-60	L3.21-10021	9.63	21	U	-3.82	pCi/L
ZBG 2	3/28/2008	COBALT-60	L3.21-10021	8.76	18	U	1.28	pCi/L
ZBG 2	3/28/2008	COBALT-60	L3.21-10021	9.65	19.4	U	3.59	pCi/L
ZBG 2	7/23/2008	COBALT-60	L3.21-10021	8.9	18.5	U	0.712	pCi/L
ZBG 2	7/23/2008	COBALT-60	L3.21-10021	8.8	18.9	U	-1.35	pCi/L
ZBG 3	3/28/2008	COBALT-60	L3.21-10021	8.63	18.6	U	-1.25	pCi/L
ZBG 3	8/26/2008	COBALT-60	L3.21-10021	10.7	21.8	U	2.11	pCi/L
ZBG 4	3/28/2008	COBALT-60	L3.21-10021	10.1	19.4	U	7.36	pCi/L
ZBG 4	8/26/2008	COBALT-60	L3.21-10021	9.44	20.9	U	-4.14	pCi/L
ZBG 5	5/15/2008	COBALT-60	L3.21-10021	8.19	17.3	U	-0.461	pCi/L
ZBG 5	5/15/2008	COBALT-60	L3.21-10021	8.61	18	U	0.368	pCi/L
ZBG 5	7/23/2008	COBALT-60	L3.21-10021	7.22	16.4	U	-4.3	pCi/L
ZBG 6	3/18/2008	COBALT-60	L3.21-10021	9.92	21	U	0.131	pCi/L
ZBG 6	3/18/2008	COBALT-60	L3.21-10021	10.8	22.5	U	1.92	pCi/L
ZBG 6	7/22/2008	COBALT-60	L3.21-10021	13.9	29.3	U	-0.894	pCi/L
ZBG 7	3/18/2008	COBALT-60	L3.21-10021	10.3	21.5	U	1.39	pCi/L
ZBG 7	7/22/2008	COBALT-60	L3.21-10021	11.1	22.7	U	7.27	pCi/L
ZBG 8	3/18/2008	COBALT-60	L3.21-10021	11.3	23.3	U	3.76	pCi/L
ZBG 8	7/22/2008	COBALT-60	L3.21-10021	14	27.5	U	7.7	pCi/L
ZBG 1	3/19/08	DEPTH_TO_WATER					60.6	ft
ZBG 1	7/22/08	DEPTH_TO_WATER					60.5	ft
ZBG 2	3/28/08	DEPTH_TO_WATER					61	ft
ZBG 2	7/23/08	DEPTH_TO_WATER					61.5	ft
ZBG 3	3/28/08	DEPTH_TO_WATER						ft
ZBG 3	8/26/08	DEPTH_TO_WATER					55.1	ft
ZBG 4	3/28/08	DEPTH_TO_WATER					56.4	ft
ZBG 4	8/26/08	DEPTH_TO_WATER					56.6	ft
ZBG 5	3/28/08	DEPTH_TO_WATER						ft
ZBG 5	7/22/08	DEPTH_TO_WATER					55	ft
ZBG 6	3/18/08	DEPTH_TO_WATER					55.9	ft
ZBG 6	7/22/08	DEPTH_TO_WATER					55.5	ft
ZBG 7	3/18/08	DEPTH_TO_WATER					55.6	ft
ZBG 7	7/22/08	DEPTH_TO_WATER					54.5	ft
ZBG 8	3/18/08	DEPTH_TO_WATER					55.7	ft
ZBG 8	7/22/08	DEPTH_TO_WATER					55.2	ft
ZBG 1	3/19/2008	EUROPIUM-152	L3.21-10021	87.5	196	U	-54.9	pCi/L

WELL	DATE	ANALYTE_NAME	METHOD	MDL	PQL	LAB QUAL	RESULT	UNIT
ZBG 1	3/19/2008	EUROPIUM-152	L3.21-10021	92.9	201	U	2.74	pCi/L
ZBG 1	7/22/2008	EUROPIUM-152	L3.21-10021	106	235	U	-64.7	pCi/L
ZBG 1	7/22/2008	EUROPIUM-152	L3.21-10021	110	246	U	-81.8	pCi/L
ZBG 2	3/28/2008	EUROPIUM-152	L3.21-10021	99.8	224	U	66.7	pCi/L
ZBG 2	3/28/2008	EUROPIUM-152	L3.21-10021	112	259	U	20.6	pCi/L
ZBG 2	7/23/2008	EUROPIUM-152	L3.21-10021	103	239	U	-13.6	pCi/L
ZBG 2	7/23/2008	EUROPIUM-152	L3.21-10021	99.8	228	U	14.6	pCi/L
ZBG 3	3/28/2008	EUROPIUM-152	L3.21-10021	94	222	U	-14.8	pCi/L
ZBG 3	8/26/2008	EUROPIUM-152	L3.21-10021	105	241	U	12.9	pCi/L
ZBG 4	3/28/2008	EUROPIUM-152	L3.21-10021	93	215	U	14.4	pCi/L
ZBG 4	8/26/2008	EUROPIUM-152	L3.21-10021	98.2	229	U	-25.8	pCi/L
ZBG 5	5/15/2008	EUROPIUM-152	L3.21-10021	93.1	193	U	64	pCi/L
ZBG 5	5/15/2008	EUROPIUM-152	L3.21-10021	87.3	189	U	-22.4	pCi/L
ZBG 5	7/23/2008	EUROPIUM-152	L3.21-10021	89.1	195	U	-33.2	pCi/L
ZBG 6	3/18/2008	EUROPIUM-152	L3.21-10021	110	250	U	29.6	pCi/L
ZBG 6	3/18/2008	EUROPIUM-152	L3.21-10021	103	233	U	36.3	pCi/L
ZBG 6	7/22/2008	EUROPIUM-152	L3.21-10021	128	297	U	2.5	pCi/L
ZBG 7	3/18/2008	EUROPIUM-152	L3.21-10021	107	240	U	53	pCi/L
ZBG 7	7/22/2008	EUROPIUM-152	L3.21-10021	117	267	U	35.5	pCi/L
ZBG 8	3/18/2008	EUROPIUM-152	L3.21-10021	110	248	U	43.2	pCi/L
ZBG 8	7/22/2008	EUROPIUM-152	L3.21-10021	134	305	U	51.8	pCi/L
ZBG 1	3/19/2008	EUROPIUM-154	L3.21-10021	17	36.8	U	0.0276	pCi/L
ZBG 1	3/19/2008	EUROPIUM-154	L3.21-10021	16.9	36.6	U	-1.53	pCi/L
ZBG 1	7/22/2008	EUROPIUM-154	L3.21-10021	21.7	47.7	U	3.72	pCi/L
ZBG 1	7/22/2008	EUROPIUM-154	L3.21-10021	20.4	45.3	U	-1.54	pCi/L
ZBG 2	3/28/2008	EUROPIUM-154	L3.21-10021	17.6	37.7	U	3.12	pCi/L
ZBG 2	3/28/2008	EUROPIUM-154	L3.21-10021	18.4	40.1	U	-2.77	pCi/L
ZBG 2	7/23/2008	EUROPIUM-154	L3.21-10021	17.8	39.8	U	-3.96	pCi/L
ZBG 2	7/23/2008	EUROPIUM-154	L3.21-10021	18	40.4	U	-4.75	pCi/L
ZBG 3	3/28/2008	EUROPIUM-154	L3.21-10021	17.9	38.6	U	1.12	pCi/L
ZBG 3	8/26/2008	EUROPIUM-154	L3.21-10021	19.7	42.6	U	6.79	pCi/L
ZBG 4	3/28/2008	EUROPIUM-154	L3.21-10021	17.7	38.5	U	-3.92	pCi/L
ZBG 4	8/26/2008	EUROPIUM-154	L3.21-10021	18.5	40.4	U	-0.244	pCi/L
ZBG 5	5/15/2008	EUROPIUM-154	L3.21-10021	14.9	33.2	U	-4.6	pCi/L
ZBG 5	5/15/2008	EUROPIUM-154	L3.21-10021	14.9	33.2	U	-5.85	pCi/L
ZBG 5	7/23/2008	EUROPIUM-154	L3.21-10021	16.6	36.6	U	1.18	pCi/L
ZBG 6	3/18/2008	EUROPIUM-154	L3.21-10021	17.7	39.7	U	-8.51	pCi/L
ZBG 6	3/18/2008	EUROPIUM-154	L3.21-10021	18.7	41.4	U	-2.07	pCi/L
ZBG 6	7/22/2008	EUROPIUM-154	L3.21-10021	25.3	55.3	U	9.23	pCi/L
ZBG 7	3/18/2008	EUROPIUM-154	L3.21-10021	18.7	41.1	U	1.59	pCi/L
ZBG 7	7/22/2008	EUROPIUM-154	L3.21-10021	22.9	50	U	6.61	pCi/L
ZBG 8	3/18/2008	EUROPIUM-154	L3.21-10021	19	42.6	U	-9.94	pCi/L
ZBG 8	7/22/2008	EUROPIUM-154	L3.21-10021	25.4	55.7	U	9.48	pCi/L
ZBG 1	3/19/2008	EUROPIUM-155	L3.21-10021	24.2	52.3	U	-2.44	pCi/L
ZBG 1	3/19/2008	EUROPIUM-155	L3.21-10021	24.5	52.9	U	-2.74	pCi/L
ZBG 1	7/22/2008	EUROPIUM-155	L3.21-10021	36.1	79.4	U	-2.84	pCi/L
ZBG 1	7/22/2008	EUROPIUM-155	L3.21-10021	38.6	83.3	U	12.8	pCi/L
ZBG 2	3/28/2008	EUROPIUM-155	L3.21-10021	26.4	56.4	U	4.62	pCi/L
ZBG 2	3/28/2008	EUROPIUM-155	L3.21-10021	31.2	76.6	U	19.2	pCi/L
ZBG 2	7/23/2008	EUROPIUM-155	L3.21-10021	28.1	65.9	U	22	pCi/L

WELL	DATE	ANALYTE_NAME	METHOD	MDL	PQL	LAB QUAL	RESULT	UNIT
ZBG 2	7/23/2008	EUROPIUM-155	L3.21-10021	28.4	62.3	U	3.19	pCi/L
ZBG 3	3/28/2008	EUROPIUM-155	L3.21-10021	27.9	59.3	U	13.1	pCi/L
ZBG 3	8/26/2008	EUROPIUM-155	L3.21-10021	33.8	72	U	28	pCi/L
ZBG 4	3/28/2008	EUROPIUM-155	L3.21-10021	26.5	57.4	U	-5.02	pCi/L
ZBG 4	8/26/2008	EUROPIUM-155	L3.21-10021	29.4	63.6	U	-0.203	pCi/L
ZBG 5	5/15/2008	EUROPIUM-155	L3.21-10021	23.1	50.4	U	-1.92	pCi/L
ZBG 5	5/15/2008	EUROPIUM-155	L3.21-10021	23	49.8	U	3.73	pCi/L
ZBG 5	7/23/2008	EUROPIUM-155	L3.21-10021	23.6	51.6	U	3.8	pCi/L
ZBG 6	3/18/2008	EUROPIUM-155	L3.21-10021	29.9	75.8	U	26.7	pCi/L
ZBG 6	3/18/2008	EUROPIUM-155	L3.21-10021	30.3	73.2	U	19.5	pCi/L
ZBG 6	7/22/2008	EUROPIUM-155	L3.21-10021	51.1	126	R	55.2	pCi/L
ZBG 7	3/18/2008	EUROPIUM-155	L3.21-10021	30.1	80.3	U	26.7	pCi/L
ZBG 7	7/22/2008	EUROPIUM-155	L3.21-10021	45.2	118	U	33.4	pCi/L
ZBG 8	3/18/2008	EUROPIUM-155	L3.21-10021	33.7	85.6	R	48.8	pCi/L
ZBG 8	7/22/2008	EUROPIUM-155	L3.21-10021	50.1	119	U	37.5	pCi/L
ZBG 1	3/19/2008	GROSS ALPHA	L3.21-10001	2.44	3.12	U	-0.322	pCi/L
ZBG 1	7/22/2008	GROSS ALPHA	L3.21-10008	2.35	5.99	U	1.52	pCi/L
ZBG 2	3/28/2008	GROSS ALPHA	L3.21-10001	2.23	5.45	U	1.13	pCi/L
ZBG 2	3/28/2008	GROSS ALPHA	L3.21-10001	2.24	6.37	U	2.04	pCi/L
ZBG 2	7/23/2008	GROSS ALPHA	L3.21-10008	2.35	5.98	U	1.51	pCi/L
ZBG 3	3/28/2008	GROSS ALPHA	L3.21-10001	2.27	6.45	U	2.07	pCi/L
ZBG 3	8/26/2008	GROSS ALPHA	L3.21-10008	2.61	7.24	U	2.35	pCi/L
ZBG 4	3/28/2008	GROSS ALPHA	L3.21-10001	2.28	6.45	U	2.07	pCi/L
ZBG 4	8/26/2008	GROSS ALPHA	L3.21-10008	2.63	6.9	U	1.9	pCi/L
ZBG 5	5/15/2008	GROSS ALPHA	L3.21-10001	2.43	9.26	J	5.63	pCi/L
ZBG 5	5/15/2008	GROSS ALPHA	L3.21-10001	2.45	8.41	J	4.19	pCi/L
ZBG 5	7/23/2008	GROSS ALPHA	L3.21-10008	2.56	9.89	J	6.52	pCi/L
ZBG 6	3/18/2008	GROSS ALPHA	L3.21-10001	2.42	9.68	U	2.76	pCi/L
ZBG 6	3/18/2008	GROSS ALPHA	L3.21-10001	2.43	4.31	U	0.121	pCi/L
ZBG 6	7/22/2008	GROSS ALPHA	L3.21-10008	2.35	7.78	J	3.76	pCi/L
ZBG 7	3/18/2008	GROSS ALPHA	L3.21-10001	2.43	5.02	U	0.565	pCi/L
ZBG 7	7/22/2008	GROSS ALPHA	L3.21-10008	2.36	6.43	U	1.97	pCi/L
ZBG 8	3/18/2008	GROSS ALPHA	L3.21-10001	2.46	9.67	J	6.83	pCi/L
ZBG 8	7/22/2008	GROSS ALPHA	L3.21-10008	2.36	5.55	U	1.08	pCi/L
ZBG 1	3/19/2008	IODINE-129	L3.21-10021	0.572	1.31	U	-0.454	pCi/L
ZBG 1	7/22/2008	IODINE-129	L3.21-10021	0.613	1.3	U	0.184	pCi/L
ZBG 2	3/28/2008	IODINE-129	L3.21-10021	0.617	1.36	U	-0.195	pCi/L
ZBG 2	7/23/2008	IODINE-129	L3.21-10021	0.571	1.25	U	-0.0879	pCi/L
ZBG 3	3/28/2008	IODINE-129	L3.21-10021	0.624	1.37	U	-0.151	pCi/L
ZBG 3	8/26/2008	IODINE-129	L3.21-10021	0.603	1.3	U	0.028	pCi/L
ZBG 4	3/28/2008	IODINE-129	L3.21-10021	0.603	1.32	U	-0.135	pCi/L
ZBG 4	8/26/2008	IODINE-129	L3.21-10021	0.648	1.41	U	-0.0176	pCi/L
ZBG 5	5/15/2008	IODINE-129	L3.21-10021	0.586	1.3	U	-0.198	pCi/L
ZBG 5	7/23/2008	IODINE-129	L3.21-10021	0.605	1.3	U	0.0236	pCi/L
ZBG 6	3/18/2008	IODINE-129	L3.21-10021	0.612	1.33	U	-0.0341	pCi/L
ZBG 6	7/22/2008	IODINE-129	L3.21-10021	0.609	1.32	U	-0.0314	pCi/L
ZBG 7	3/18/2008	IODINE-129	L3.21-10021	0.618	1.36	U	-0.167	pCi/L
ZBG 7	3/18/2008	IODINE-129	L3.21-10021	0.602	1.32	U	-0.103	pCi/L
ZBG 7	7/22/2008	IODINE-129	L3.21-10021	0.599	1.33	U	-0.236	pCi/L
ZBG 8	3/18/2008	IODINE-129	L3.21-10021	0.576	1.3	U	-0.377	pCi/L

WELL	DATE	ANALYTE_NAME	METHOD	MDL	PQL	LAB QUAL	RESULT	UNIT
ZBG 8	7/22/2008	IODINE-129	L3.21-10021	0.604	1.32	U	-0.0777	pCi/L
ZBG 1	3/19/2008	LEAD-214	L3.21-10021	19.2	43.6	U	-7.09	pCi/L
ZBG 1	3/19/2008	LEAD-214	L3.21-10021	19.5	43.6	U	-2.24	pCi/L
ZBG 1	7/22/2008	LEAD-214	L3.21-10021	23.3	76.4	J	93.1	pCi/L
ZBG 1	7/22/2008	LEAD-214	L3.21-10021	22.6	75.8	J	83	pCi/L
ZBG 2	3/28/2008	LEAD-214	L3.21-10021	18	63.4		83.9	pCi/L
ZBG 2	3/28/2008	LEAD-214	L3.21-10021	19.3	86.5		214	pCi/L
ZBG 2	7/23/2008	LEAD-214	L3.21-10021	20.5	89.4		200	pCi/L
ZBG 2	7/23/2008	LEAD-214	L3.21-10021	20.9	91.4		211	pCi/L
ZBG 3	3/28/2008	LEAD-214	L3.21-10021	19	64.6		107	pCi/L
ZBG 3	8/26/2008	LEAD-214	L3.21-10021	21	82.7		155	pCi/L
ZBG 4	3/28/2008	LEAD-214	L3.21-10021	19.9	61.9		69	pCi/L
ZBG 4	8/26/2008	LEAD-214	L3.21-10021	21	71.7		122	pCi/L
ZBG 5	5/15/2008	LEAD-214	L3.21-10021	18.8	41.7	U	-3.54	pCi/L
ZBG 5	5/15/2008	LEAD-214	L3.21-10021	17.6	39.2	U	-4.13	pCi/L
ZBG 5	7/23/2008	LEAD-214	L3.21-10021	23.2	48.6	U	18.2	pCi/L
ZBG 6	3/18/2008	LEAD-214	L3.21-10021	19.7	103		349	pCi/L
ZBG 6	3/18/2008	LEAD-214	L3.21-10021	21.6	102		322	pCi/L
ZBG 6	7/22/2008	LEAD-214	L3.21-10021	25.5	150		431	pCi/L
ZBG 7	3/18/2008	LEAD-214	L3.21-10021	21.8	98.2		320	pCi/L
ZBG 7	7/22/2008	LEAD-214	L3.21-10021	23.4	94.4	J	189	pCi/L
ZBG 8	3/18/2008	LEAD-214	L3.21-10021	21.8	122		448	pCi/L
ZBG 8	7/22/2008	LEAD-214	L3.21-10021	26.5	151		435	pCi/L
ZBG 1	3/19/2008	NITRATE-NITRITE AS NITROGEN	EPA353.2	0.1	0.5		1.85	mg/L
ZBG 1	3/19/2008	NITRATE-NITRITE AS NITROGEN	EPA353.2	0.1	0.5		1.76	mg/L
ZBG 1	7/22/2008	NITRATE-NITRITE AS NITROGEN	EPA353.2	0.05	0.25		0.865	mg/L
ZBG 1	7/22/2008	NITRATE-NITRITE AS NITROGEN	EPA353.2	0.05	0.25		0.86	mg/L
ZBG 2	3/28/2008	NITRATE-NITRITE AS NITROGEN	EPA353.2	0.05	0.25		0.575	mg/L
ZBG 2	7/23/2008	NITRATE-NITRITE AS NITROGEN	EPA353.2	0.05	0.25		0.615	mg/L
ZBG 3	3/28/2008	NITRATE-NITRITE AS NITROGEN	EPA353.2	0.05	0.25		0.74	mg/L
ZBG 3	8/26/2008	NITRATE-NITRITE AS NITROGEN	EPA353.2	0.05	0.25		0.92	mg/L
ZBG 3	8/26/2008	NITRATE-NITRITE AS NITROGEN	EPA353.2	0.05	0.25		0.915	mg/L
ZBG 4	3/28/2008	NITRATE-NITRITE AS NITROGEN	EPA353.2	0.05	0.25		0.68	mg/L
ZBG 4	8/26/2008	NITRATE-NITRITE AS NITROGEN	EPA353.2	0.05	0.25		0.76	mg/L
ZBG 5	3/28/2008	NITRATE-NITRITE AS NITROGEN	EPA353.2	0.05	0.25		0.298	mg/L
ZBG 5	3/28/2008	NITRATE-NITRITE AS NITROGEN	EPA353.2	0.05	0.25		0.277	mg/L
ZBG 5	7/23/2008	NITRATE-NITRITE AS NITROGEN	EPA353.2	0.01	0.05	J	0.145	mg/L
ZBG 6	3/18/2008	NITRATE-NITRITE AS NITROGEN	EPA353.2	0.05	0.25		0.54	mg/L
ZBG 6	7/22/2008	NITRATE-NITRITE AS NITROGEN	EPA353.2	0.05	0.25		0.545	mg/L
ZBG 7	3/18/2008	NITRATE-NITRITE AS NITROGEN	EPA353.2	0.05	0.25		0.8	mg/L
ZBG 7	7/22/2008	NITRATE-NITRITE AS NITROGEN	EPA353.2	0.05	0.25		0.79	mg/L
ZBG 8	3/18/2008	NITRATE-NITRITE AS NITROGEN	EPA353.2	0.05	0.25		0.745	mg/L
ZBG 8	3/18/2008	NITRATE-NITRITE AS NITROGEN	EPA353.2	0.05	0.25		0.73	mg/L
ZBG 8	7/22/2008	NITRATE-NITRITE AS NITROGEN	EPA353.2	0.05	0.25		0.765	mg/L
ZBG 1	3/19/2008	NONVOLATILE BETA	L3.21-10001	4.34	10.4	U	3.51	pCi/L
ZBG 1	7/22/2008	NONVOLATILE BETA	L3.21-10008	4.54	10.5	U	3.15	pCi/L
ZBG 2	3/28/2008	NONVOLATILE BETA	L3.21-10001	4.18	9.56	U	2.12	pCi/L
ZBG 2	3/28/2008	NONVOLATILE BETA	L3.21-10001	4.29	10.5	U	4.01	pCi/L
ZBG 2	7/23/2008	NONVOLATILE BETA	L3.21-10008	4.53	10.2	U	2.39	pCi/L
ZBG 3	3/28/2008	NONVOLATILE BETA	L3.21-10001	4.29	9.04	U	0.356	pCi/L

WELL	DATE	ANALYTE_NAME	METHOD	MDL	PQL	LAB QUAL	RESULT	UNIT
ZBG 3	8/26/2008	NONVOLATILE BETA	L3.21-10008	4.41	9.2	U	-0.175	pCi/L
ZBG 4	3/28/2008	NONVOLATILE BETA	L3.21-10001	4.29	10.4	U	3.76	pCi/L
ZBG 4	8/26/2008	NONVOLATILE BETA	L3.21-10008	4.36	10.1	U	2.28	pCi/L
ZBG 5	5/15/2008	NONVOLATILE BETA	L3.21-10001	4.67	10.5	U	2.04	pCi/L
ZBG 5	5/15/2008	NONVOLATILE BETA	L3.21-10001	4.52	10.3	U	2.34	pCi/L
ZBG 5	7/23/2008	NONVOLATILE BETA	L3.21-10008	5.03	11.3	U	2.67	pCi/L
ZBG 6	3/18/2008	NONVOLATILE BETA	L3.21-10001	4.7	14.2	U	3.54	pCi/L
ZBG 6	3/18/2008	NONVOLATILE BETA	L3.21-10001	4.39	10.1	U	2.14	pCi/L
ZBG 6	7/22/2008	NONVOLATILE BETA	L3.21-10008	4.79	10	U	0.346	pCi/L
ZBG 7	3/18/2008	NONVOLATILE BETA	L3.21-10001	4.45	8.96	U	-0.5	pCi/L
ZBG 7	7/22/2008	NONVOLATILE BETA	L3.21-10008	4.59	10.4	U	2.54	pCi/L
ZBG 8	3/18/2008	NONVOLATILE BETA	L3.21-10001	5.13	10.6	U	-0.178	pCi/L
ZBG 8	7/22/2008	NONVOLATILE BETA	L3.21-10008	4.48	10.2	U	2.49	pCi/L
ZBG 1	3/19/08	PH					5.8	pH
ZBG 1	7/22/08	PH					6.4	pH
ZBG 2	3/28/08	PH					6	pH
ZBG 2	7/23/08	PH					7.3	pH
ZBG 3	3/28/08	PH					5.9	pH
ZBG 3	8/26/08	PH					6.1	pH
ZBG 4	3/28/08	PH					6.2	pH
ZBG 4	8/26/08	PH					6.2	pH
ZBG 5	3/28/08	PH					7.4	pH
ZBG 5	7/22/08	PH					6.1	pH
ZBG 6	3/18/08	PH					4.9	pH
ZBG 6	7/22/08	PH					6.8	pH
ZBG 7	3/18/08	PH					5.5	pH
ZBG 7	7/22/08	PH					7.8	pH
ZBG 8	3/18/08	PH					5	pH
ZBG 8	7/22/08	PH					7.6	pH
ZBG 1	3/19/2008	POTASSIUM-40	L3.21-10021	172	332	U	-37	pCi/L
ZBG 1	3/19/2008	POTASSIUM-40	L3.21-10021	159	308	U	-78.5	pCi/L
ZBG 1	7/22/2008	POTASSIUM-40	L3.21-10021	215	418	U	-20.5	pCi/L
ZBG 1	7/22/2008	POTASSIUM-40	L3.21-10021	226	440	U	3.91	pCi/L
ZBG 2	3/28/2008	POTASSIUM-40	L3.21-10021	173	338	U	-34.9	pCi/L
ZBG 2	3/28/2008	POTASSIUM-40	L3.21-10021	175	345	U	-40.4	pCi/L
ZBG 2	7/23/2008	POTASSIUM-40	L3.21-10021	157	308	U	-131	pCi/L
ZBG 2	7/23/2008	POTASSIUM-40	L3.21-10021	173	333	U	-56.9	pCi/L
ZBG 3	3/28/2008	POTASSIUM-40	L3.21-10021	154	307	U	-113	pCi/L
ZBG 3	8/26/2008	POTASSIUM-40	L3.21-10021	229	441	U	35.7	pCi/L
ZBG 4	3/28/2008	POTASSIUM-40	L3.21-10021	174	338	U	-20.2	pCi/L
ZBG 4	8/26/2008	POTASSIUM-40	L3.21-10021	214	413	U	-32.7	pCi/L
ZBG 5	5/15/2008	POTASSIUM-40	L3.21-10021	65.1	250	J	95.1	pCi/L
ZBG 5	5/15/2008	POTASSIUM-40	L3.21-10021	198	375	U	53.2	pCi/L
ZBG 5	7/23/2008	POTASSIUM-40	L3.21-10021	141	278	U	-166	pCi/L
ZBG 6	3/18/2008	POTASSIUM-40	L3.21-10021	187	364	U	-73.6	pCi/L
ZBG 6	3/18/2008	POTASSIUM-40	L3.21-10021	179	348	U	-107	pCi/L
ZBG 6	7/22/2008	POTASSIUM-40	L3.21-10021	223	435	U	-13.1	pCi/L
ZBG 7	3/18/2008	POTASSIUM-40	L3.21-10021	188	364	U	-63.1	pCi/L
ZBG 7	7/22/2008	POTASSIUM-40	L3.21-10021	225	429	U	55.2	pCi/L
ZBG 8	3/18/2008	POTASSIUM-40	L3.21-10021	201	387	U	-13.8	pCi/L

WELL	DATE	ANALYTE_NAME	METHOD	MDL	PQL	LAB QUAL	RESULT	UNIT
ZBG 8	7/22/2008	POTASSIUM-40	L3.21-10021	232	453	U	19.3	pCi/L
ZBG 1	3/19/2008	PROMETHIUM-146	L3.21-10021	9.57	20.9	U	-1.08	pCi/L
ZBG 1	3/19/2008	PROMETHIUM-146	L3.21-10021	11.2	23.9	U	2.54	pCi/L
ZBG 1	7/22/2008	PROMETHIUM-146	L3.21-10021	13	27.7	U	3.09	pCi/L
ZBG 1	7/22/2008	PROMETHIUM-146	L3.21-10021	13.4	29.4	U	-1.74	pCi/L
ZBG 2	3/28/2008	PROMETHIUM-146	L3.21-10021	11.1	23	U	7.14	pCi/L
ZBG 2	3/28/2008	PROMETHIUM-146	L3.21-10021	10.4	24	U	-8.51	pCi/L
ZBG 2	7/23/2008	PROMETHIUM-146	L3.21-10021	11.4	25.1	U	-2.88	pCi/L
ZBG 2	7/23/2008	PROMETHIUM-146	L3.21-10021	10.8	24.5	U	-6.97	pCi/L
ZBG 3	3/28/2008	PROMETHIUM-146	L3.21-10021	11	24.5	U	-3.83	pCi/L
ZBG 3	8/26/2008	PROMETHIUM-146	L3.21-10021	12.4	30.6	U	-6.9	pCi/L
ZBG 4	3/28/2008	PROMETHIUM-146	L3.21-10021	10.8	23.7	U	-1.71	pCi/L
ZBG 4	8/26/2008	PROMETHIUM-146	L3.21-10021	13.1	28.2	U	0.881	pCi/L
ZBG 5	5/15/2008	PROMETHIUM-146	L3.21-10021	11	23.5	U	0.784	pCi/L
ZBG 5	5/15/2008	PROMETHIUM-146	L3.21-10021	9.68	21.3	U	-3.01	pCi/L
ZBG 5	7/23/2008	PROMETHIUM-146	L3.21-10021	10.8	22.8	U	1.82	pCi/L
ZBG 6	3/18/2008	PROMETHIUM-146	L3.21-10021	12.4	26	U	4.85	pCi/L
ZBG 6	3/18/2008	PROMETHIUM-146	L3.21-10021	12.7	26.9	U	4.65	pCi/L
ZBG 6	7/22/2008	PROMETHIUM-146	L3.21-10021	15.9	33.4	U	7.83	pCi/L
ZBG 7	3/18/2008	PROMETHIUM-146	L3.21-10021	11.4	25	U	-2.96	pCi/L
ZBG 7	7/22/2008	PROMETHIUM-146	L3.21-10021	13.5	28.5	U	4.4	pCi/L
ZBG 8	3/18/2008	PROMETHIUM-146	L3.21-10021	11.5	25.9	U	-7.76	pCi/L
ZBG 8	7/22/2008	PROMETHIUM-146	L3.21-10021	15.9	35.2	U	-2.26	pCi/L
ZBG 2	3/28/2008	RUTHENIUM-106	L3.21-10021	77.5	171	U	-37	pCi/L
ZBG 2	3/28/2008	RUTHENIUM-106	L3.21-10021	83.2	172	U	22.1	pCi/L
ZBG 3	3/28/2008	RUTHENIUM-106	L3.21-10021	84.1	174	U	23	pCi/L
ZBG 4	3/28/2008	RUTHENIUM-106	L3.21-10021	82.4	176	U	-7.08	pCi/L
ZBG 1	3/19/2008	SODIUM-22	L3.21-10021	8.12	16.4	U	1.4	pCi/L
ZBG 1	3/19/2008	SODIUM-22	L3.21-10021	8.07	15.9	U	2.67	pCi/L
ZBG 1	7/22/2008	SODIUM-22	L3.21-10021	9.53	20	U	0.0196	pCi/L
ZBG 1	7/22/2008	SODIUM-22	L3.21-10021	9.9	21.3	U	-2.67	pCi/L
ZBG 2	3/28/2008	SODIUM-22	L3.21-10021	8.22	17.3	U	-0.131	pCi/L
ZBG 2	3/28/2008	SODIUM-22	L3.21-10021	8.38	18.4	U	-2.31	pCi/L
ZBG 2	7/23/2008	SODIUM-22	L3.21-10021	9.13	9.13	U	0	pCi/L
ZBG 2	7/23/2008	SODIUM-22	L3.21-10021	9.52	17.8	U	4.88	pCi/L
ZBG 3	3/28/2008	SODIUM-22	L3.21-10021	9.25	18.9	U	1.83	pCi/L
ZBG 3	8/26/2008	SODIUM-22	L3.21-10021	9.83	20.2	U	0.943	pCi/L
ZBG 4	3/28/2008	SODIUM-22	L3.21-10021	8.06	18.3	U	-4.11	pCi/L
ZBG 4	8/26/2008	SODIUM-22	L3.21-10021	8.38	22.2	U	-6.68	pCi/L
ZBG 5	5/15/2008	SODIUM-22	L3.21-10021	9.13	18.6	U	1.94	pCi/L
ZBG 5	5/15/2008	SODIUM-22	L3.21-10021	7.85	16	U	0.802	pCi/L
ZBG 5	7/23/2008	SODIUM-22	L3.21-10021	7.76	16.3	U	-0.48	pCi/L
ZBG 6	3/18/2008	SODIUM-22	L3.21-10021	8.65	19.6	U	-4.35	pCi/L
ZBG 6	3/18/2008	SODIUM-22	L3.21-10021	8.88	19.1	U	2.43	pCi/L
ZBG 6	7/22/2008	SODIUM-22	L3.21-10021	13.8	28.8	U	0.202	pCi/L
ZBG 7	3/18/2008	SODIUM-22	L3.21-10021	8.89	19.2	U	-1.46	pCi/L
ZBG 7	7/22/2008	SODIUM-22	L3.21-10021	11.2	23.8	U	-1.87	pCi/L
ZBG 8	3/18/2008	SODIUM-22	L3.21-10021	9.02	20.4	U	-4.43	pCi/L
ZBG 8	7/22/2008	SODIUM-22	L3.21-10021	13.6	29.9	U	2.73	pCi/L
ZBG 1	7/22/08	SPECIFIC CONDUCTANCE					20	uS/cm

WELL	DATE	ANALYTE_NAME	METHOD	MDL	PQL	LAB QUAL	RESULT	UNIT
ZBG 2	3/28/08	SPECIFIC CONDUCTANCE					16	uS/cm
ZBG 2	7/23/08	SPECIFIC CONDUCTANCE					14	uS/cm
ZBG 3	3/28/08	SPECIFIC CONDUCTANCE					20	uS/cm
ZBG 3	8/26/08	SPECIFIC CONDUCTANCE					20	uS/cm
ZBG 4	3/28/08	SPECIFIC CONDUCTANCE					27	uS/cm
ZBG 4	8/26/08	SPECIFIC CONDUCTANCE					25	uS/cm
ZBG 5	3/28/08	SPECIFIC CONDUCTANCE					115	uS/cm
ZBG 5	7/22/08	SPECIFIC CONDUCTANCE					111	uS/cm
ZBG 6	3/18/08	SPECIFIC CONDUCTANCE					15	uS/cm
ZBG 6	7/22/08	SPECIFIC CONDUCTANCE					15	uS/cm
ZBG 7	3/18/08	SPECIFIC CONDUCTANCE					18	uS/cm
ZBG 7	7/22/08	SPECIFIC CONDUCTANCE					18	uS/cm
ZBG 8	3/18/08	SPECIFIC CONDUCTANCE					31	uS/cm
ZBG 8	7/22/08	SPECIFIC CONDUCTANCE					19	uS/cm
ZBG 1	3/19/08	SPECIFIC CONDUCTANCE					34	uS/cm
ZBG 1	3/19/08	TEMPERATURE					18	degrees
ZBG 1	7/22/08	TEMPERATURE					22.5	degrees
ZBG 2	3/28/08	TEMPERATURE					17.7	degrees
ZBG 2	7/23/08	TEMPERATURE					21.2	degrees
ZBG 3	3/28/08	TEMPERATURE					19.2	degrees
ZBG 3	8/26/08	TEMPERATURE					22.4	degrees
ZBG 4	3/28/08	TEMPERATURE					18.5	degrees
ZBG 4	8/26/08	TEMPERATURE					22	degrees
ZBG 5	3/28/08	TEMPERATURE					17.2	degrees
ZBG 5	7/22/08	TEMPERATURE					20.9	degrees
ZBG 6	3/18/08	TEMPERATURE					20.3	degrees
ZBG 6	7/22/08	TEMPERATURE					22.7	degrees
ZBG 7	3/18/08	TEMPERATURE					19.9	degrees
ZBG 7	7/22/08	TEMPERATURE					22.8	degrees
ZBG 8	3/18/08	TEMPERATURE					20	degrees
ZBG 8	7/22/08	TEMPERATURE					22.5	degrees
ZBG 1	3/19/2008	THALLIUM-208	L3.21-10021	8.58	20.3	U	8.54	pCi/L
ZBG 1	3/19/2008	THALLIUM-208	L3.21-10021	11.1	22.9	U	1.56	pCi/L
ZBG 1	7/22/2008	THALLIUM-208	L3.21-10021	11.6	26.2	U	-9.98	pCi/L
ZBG 1	7/22/2008	THALLIUM-208	L3.21-10021	10.8	24.4	U	-7.9	pCi/L
ZBG 2	3/28/2008	THALLIUM-208	L3.21-10021	10.8	23.1	U	0.755	pCi/L
ZBG 2	3/28/2008	THALLIUM-208	L3.21-10021	10.4	22.9	U	-3.66	pCi/L
ZBG 2	7/23/2008	THALLIUM-208	L3.21-10021	10.1	24.2	U	-7.44	pCi/L
ZBG 2	7/23/2008	THALLIUM-208	L3.21-10021	10.4	23.5	U	-8.53	pCi/L
ZBG 3	3/28/2008	THALLIUM-208	L3.21-10021	10.1	21.7	U	-0.585	pCi/L
ZBG 3	8/26/2008	THALLIUM-208	L3.21-10021	12.1	26.6	U	-6.39	pCi/L
ZBG 4	3/28/2008	THALLIUM-208	L3.21-10021	10.2	21.9	U	-0.00123	pCi/L
ZBG 4	8/26/2008	THALLIUM-208	L3.21-10021	13.6	28.2	U	5.17	pCi/L
ZBG 5	5/15/2008	THALLIUM-208	L3.21-10021	10.1	21.4	U	0.527	pCi/L
ZBG 5	5/15/2008	THALLIUM-208	L3.21-10021	11	23.7	U	0.563	pCi/L
ZBG 5	7/23/2008	THALLIUM-208	L3.21-10021	10.5	22	U	-0.37	pCi/L
ZBG 6	3/18/2008	THALLIUM-208	L3.21-10021	12.3	26.1	U	2.55	pCi/L
ZBG 6	3/18/2008	THALLIUM-208	L3.21-10021	11.3	24.5	U	-1.29	pCi/L
ZBG 6	7/22/2008	THALLIUM-208	L3.21-10021	12.9	28	U	-3.54	pCi/L
ZBG 7	3/18/2008	THALLIUM-208	L3.21-10021	11.2	24.3	U	-1.83	pCi/L



WELL	DATE	ANALYTE_NAME	METHOD	MDL	PQL	LAB QUAL	RESULT	UNIT
ZBG 7	7/22/2008	THALLIUM-208	L3.21-10021	12.6	27.1	U	-2.15	pCi/L
ZBG 8	3/18/2008	THALLIUM-208	L3.21-10021	11.5	25.1	U	-3.13	pCi/L
ZBG 8	7/22/2008	THALLIUM-208	L3.21-10021	14.3	30	U	2.88	pCi/L
ZBG 1	3/19/2008	TRITIUM	L3.21-10015	0.466	1.36		3.74	pCi/mL
ZBG 1	7/22/2008	TRITIUM	L3.21-10015	0.462	1.19		1.89	pCi/mL
ZBG 2	3/28/2008	TRITIUM	L3.21-10015	0.479	1.26		2.27	pCi/mL
ZBG 2	7/23/2008	TRITIUM	L3.21-10015	0.468	1.22		2.14	pCi/mL
ZBG 3	3/28/2008	TRITIUM	L3.21-10015	0.481	1.34		3.2	pCi/mL
ZBG 3	8/26/2008	TRITIUM	L3.21-10015	0.441	1.27		3.25	pCi/mL
ZBG 4	3/28/2008	TRITIUM	L3.21-10015	0.482	1.24		1.89	pCi/mL
ZBG 4	8/26/2008	TRITIUM	L3.21-10015	0.443	1.16		1.91	pCi/mL
ZBG 5	5/15/2008	TRITIUM	L3.21-10015	0.504	1.21	J	1.19	pCi/mL
ZBG 5	7/23/2008	TRITIUM	L3.21-10015	0.466	1.07	J	0.54	pCi/mL
ZBG 6	3/18/2008	TRITIUM	L3.21-10015	0.466	1.43		4.66	pCi/mL
ZBG 6	7/22/2008	TRITIUM	L3.21-10015	0.468	1.44		4.98	pCi/mL
ZBG 7	3/18/2008	TRITIUM	L3.21-10015	0.467	1.33		3.4	pCi/mL
ZBG 7	7/22/2008	TRITIUM	L3.21-10015	0.466	1.35		3.71	pCi/mL
ZBG 8	3/18/2008	TRITIUM	L3.21-10015	0.476	1.36		3.53	pCi/mL
ZBG 8	7/22/2008	TRITIUM	L3.21-10015	0.476	1.37		3.7	pCi/mL
ZBG 8	7/22/2008	TRITIUM	L3.21-10015	0.468	1.35		3.7	pCi/mL
ZBG 1	3/19/08	TURBIDITY					4.7	ntu
ZBG 1	7/22/08	TURBIDITY					3.5	ntu
ZBG 2	3/28/08	TURBIDITY					4.2	ntu
ZBG 2	7/23/08	TURBIDITY					3	ntu
ZBG 3	3/28/08	TURBIDITY					37	ntu
ZBG 3	8/26/08	TURBIDITY					9.9	ntu
ZBG 4	3/28/08	TURBIDITY					14	ntu
ZBG 4	8/26/08	TURBIDITY					20	ntu
ZBG 5	3/28/08	TURBIDITY					45	ntu
ZBG 5	7/22/08	TURBIDITY					130	ntu
ZBG 6	3/18/08	TURBIDITY					0	ntu
ZBG 6	7/22/08	TURBIDITY					3.4	ntu
ZBG 7	3/18/08	TURBIDITY					2	ntu
ZBG 7	7/22/08	TURBIDITY					2.7	ntu
ZBG 8	3/18/08	TURBIDITY					80	ntu
ZBG 8	7/22/08	TURBIDITY					4.8	ntu

**Definitions:**

MDL	method detection limit
PQL	practical quantitation limit
LAB QUALIFIER	USEPA Functional Guideline Codes applied by labs.

**USEPA Functional Guideline Codes**

- J The detected analyte was positively identified but the result is approximate.
- NJ The detected analyte was only tentatively identified and the result is approximate. All usable TIC results receive this code.
- U The analyte was analyzed for, but not detected. The sample detection and quantitation limits (MDL & SQL) are valid unless blank contamination is indicated.
- UJ The analyte was analyzed for, but not detected. The MDL & SQL are approximate, and may be inaccurate or imprecise.
- R The sample result is rejected as unusable due to serious deficiencies in meeting quality control criteria. The analyte may be present or absent.