

<b>Row Name</b>	<b>Sources Included</b>
B-101 Row	241-B-107 Leak 241-B-110 Leak UPR-200-E-6 UPR-200-E-73 UPR-200-E-74 UPR-200-E-75 UPR-200-E-109 UPR-200-E-38
B-102 Row	241-BX-101 Leak UPR-200-E-108
B-103 Row	241-B-112 Leak 241-BX-102 Leak 241-BX-108 Leak
B-201 Row	241-B-201 Leak 241-B-203 Leak 241-B-204 Leak
BY-101 Row	241-BY-107 Leak UPR-200-E-105
BY-102 Row	241-BY-108 Leak
BY-103 Row	241-BY-103 Leak UPR-200-E-110

<b>CAS Number</b>	<b>Analyte Name</b>	<b>Concentration</b> pCi/L (Rad) or mg/L (Non-rad)	<b>Peak Year</b>	<b>Kd</b>
3H	Tritium	1.03E+03	2044	0
14C	Carbon-14	1.15E+02	2051	0
59Ni	Nickel-59	0		48
63Ni	Nickel-63	0		48
60Co	Cobalt-60	2.41E-02	2052	0.1
79Se	Selenium-79	0		3.1
90Sr	Strontium-90 + D	0		16.1
93mNb	Niobium-93m	0		100
99Tc	Technetium-99	5.71E+02	2051	0
106Ru	Ruthenium-106	0		1
113mCd	Cadmium-113m	0		1
126Sn	Tin-126	1.11E-05	12032	1
125Sb	Antimony-125	0		1
129I	Iodine-129	9.36E-02	9621	0.2
134Cs	Cesium-134	0		25
137Cs	Cesium-137 + Daughters	0		25
151Sm	Samarium-151	4.94E-13	3961	1
152Eu	Europium-152	0		1
154Eu	Europium-154	0		1
155Eu	Europium-155	0		1
226Ra	Radium-226 + D	1.02E-11	12032	1
228Ra	Radium-228 + D	0		1
227Ac	Actinium-227 + D	0		67
229Th	Thorium-229 + D	0		3
232Th	Thorium-232	0		3
231Pa	Protactinium-231	0		550
232U	Uranium-232	2.72E-10	2175	0.6
233U	Uranium-233	1.01E-03	12032	0.6
234U	Uranium-234	2.00E-04	12032	0.6
235U	Uranium-235 + D	8.26E-06	12032	0.6
236U	Uranium-236	4.86E-06	12032	0.6
238U	Uranium-238 + D	1.92E-04	12032	0.6
237Np	Neptunium-237 + D	0		2
238Pu	Plutonium-238	0		3
239Pu	Plutonium-239	0		3
240Pu	Plutonium-240	0		3
241Pu	Plutonium-241 + D	0		3
242Pu	Plutonium-242	0		3
241Am	Americium-241	0		3
243Am	Americium-243 + D	0		3
242Cm	Curium-242	0		3
243Cm	Curium-243	0		3
244Cm	Curium-244	0		3
7429-90-5	Aluminum	2.32E-06	12032	1
7664-41-7	Ammonia -- (a)	8.83E-03	2051	0.00093
7440-69-9	Bismuth	4.77E-04	2051	
7440-70-2	Calcium	0		4

16887-00-6	Chloride	5.70E-02	2051	
18540-29-9	Chromium	1.87E-02	2051	0
16984-48-8	Fluoride	1.73E-02	2051	
7439-89-6	Iron	0		25
7439-92-1	Lead	0		5.2
7439-96-5	Manganese	1.05E-13	12032	1
7439-97-6	Mercury	0		5.2
7440-02-0	Nickel	0		48
14797-55-8	Nitrate	4.74E+00	2051	0
14797-65-0	Nitrite	1.63E+00	2051	0
14265-44-2	Phosphate	3.50E-02	2051	
7440-21-3	Silicon	0		30
7440-22-4	Silver	0		2.7
7440-23-5	Sodium	4.11E+00	2051	
14808-79-8	Sulfate	1.52E-01	2051	
7440-61-1	Uranium	5.77E-07	12032	0.6
7440-67-7	Zirconium	0		500
71-36-3	n-Butyl alcohol (1-butanol)	2.87E-03	2051	0.002076

**Kd Bin Half-Life**

	Years
0	12.33
0	5730
5	74999
5	100.1
0.1	5.2713
2	805000
5	28.149
5	16.13
0	211097
1	1.01736
1	14.1
1	246000
1	2.7299
0.2	15700000
5	2.0619
5	29.999
1	89.997
1	13.33
1	8.5919
1	4.68
1	1600
1	5.7498
5	21.769
2	7340
2	1405000000
5	32759
0.6	69.799
0.6	159198
0.6	245694
0.6	703700000
0.6	23420000
0.6	4468000000
2	2140000
2	87.697
2	24110
2	6563
2	14.35
2	373507
2	432.7
2	7370
2	0.44611
2	28.499
2	18.1
1	Infinity
0	Infinity
0	Infinity
5	Infinity

**Report Generated on: 5/26/2005, 3:52:13 PM**  
**Report Generated by devans ( Doug Evans )**  
**Decision Management Tool Version 4.0.0.37**  
241-B-107 TanksPastLeaks\_B-BX-BY.txt  
**Major Assumptions Used:**  
Dilution factor for WMA-B-BX-BY: 40  
Compliance Monitoring Start Year :2001

0 Infinity  
0 Infinity  
0 Infinity  
5 Infinity  
5 Infinity  
1 Infinity  
5 Infinity  
5 Infinity  
0 Infinity  
0 Infinity  
0 Infinity  
5 Infinity  
2 Infinity  
0 Infinity  
0 Infinity  
0.6 Infinity  
5 Infinity  
0 Infinity

case01.stp

CAS Number	Analyte Name	Concentration pCi/L (Rad) or mg/L (Non-rad)	Peak Year	Kd
3H	Tritium	1.79E+01	2044	0
14C	Carbon-14	3.37E+01	2051	0
59Ni	Nickel-59	0		48
63Ni	Nickel-63	0		48
60Co	Cobalt-60	2.44E-03	2052	0.1
79Se	Selenium-79	0		3.1
90Sr	Strontium-90 + D	0		16.1
93mNb	Niobium-93m	0		100
99Tc	Technetium-99	1.09E+03	2051	0
106Ru	Ruthenium-106	0		1
113mCd	Cadmium-113m	0		1
126Sn	Tin-126	2.14E-05	12032	1
125Sb	Antimony-125	0		1
129I	Iodine-129	4.65E-03	9621	0.2
134Cs	Cesium-134	0		25
137Cs	Cesium-137 + Daughters	0		25
151Sm	Samarium-151	2.67E-13	3961	1
152Eu	Europium-152	0		1
154Eu	Europium-154	0		1
155Eu	Europium-155	0		1
226Ra	Radium-226 + D	4.53E-12	12032	1
228Ra	Radium-228 + D	0		1
227Ac	Actinium-227 + D	0		67
229Th	Thorium-229 + D	0		3
232Th	Thorium-232	0		3
231Pa	Protactinium-231	0		550
232U	Uranium-232	2.14E-11	2175	0.6
233U	Uranium-233	8.08E-05	12032	0.6
234U	Uranium-234	1.58E-05	12032	0.6
235U	Uranium-235 + D	6.60E-07	12032	0.6
236U	Uranium-236	4.81E-07	12032	0.6
238U	Uranium-238 + D	1.44E-05	12032	0.6
237Np	Neptunium-237 + D	0		2
238Pu	Plutonium-238	0		3
239Pu	Plutonium-239	0		3
240Pu	Plutonium-240	0		3
241Pu	Plutonium-241 + D	0		3
242Pu	Plutonium-242	0		3
241Am	Americium-241	0		3
243Am	Americium-243 + D	0		3
242Cm	Curium-242	0		3
243Cm	Curium-243	0		3
244Cm	Curium-244	0		3
7429-90-5	Aluminum	1.93E-07	12032	1
7664-41-7	Ammonia -- (a)	3.73E-03	2051	0.00093
7440-69-9	Bismuth	7.46E-05	2051	
7440-70-2	Calcium	0		4

16887-00-6	Chloride	2.42E-02	2051	
18540-29-9	Chromium	1.12E-02	2051	0
16984-48-8	Fluoride	4.34E-03	2051	
7439-89-6	Iron	0		25
7439-91-0	Lanthanum	4.92E-10	2051	
7439-92-1	Lead	0		5.2
7439-96-5	Manganese	1.50E-10	12032	1
7439-97-6	Mercury	0		5.2
7440-02-0	Nickel	0		48
14797-55-8	Nitrate	6.86E-01	2051	0
14797-65-0	Nitrite	3.88E-01	2051	0
14265-44-2	Phosphate	1.39E-02	2051	
7440-21-3	Silicon	0		30
7440-22-4	Silver	0		2.7
7440-23-5	Sodium	8.39E-01	2051	
14808-79-8	Sulfate	6.77E-02	2051	
7440-61-1	Uranium	4.31E-08	12032	0.6
7440-67-7	Zirconium	0		500
71-36-3	n-Butyl alcohol (1-butanol)	3.41E-03	2051	0.002076



**Kd Bin Half-Life**

	Years
0	12.33
0	5730
5	74999
5	100.1
0.1	5.2713
2	805000
5	28.149
5	16.13
0	211097
1	1.01736
1	14.1
1	246000
1	2.7299
0.2	15700000
5	2.0619
5	29.999
1	89.997
1	13.33
1	8.5919
1	4.68
1	1600
1	5.7498
5	21.769
2	7340
2	1405000000
5	32759
0.6	69.799
0.6	159198
0.6	245694
0.6	703700000
0.6	23420000
0.6	4468000000
2	2140000
2	87.697
2	24110
2	6563
2	14.35
2	373507
2	432.7
2	7370
2	0.44611
2	28.499
2	18.1
1	Infinity
0	Infinity
0	Infinity
5	Infinity

**Report Generated on: 5/26/2005, 3:53:13 PM**  
**Report Generated by devans ( Doug Evans )**  
**Decision Management Tool Version 4.0.0.37**  
241-B-110 TanksPastLeaks\_B-BX-BY.txt  
**Major Assumptions Used:**  
Dilution factor for WMA-B-BX-BY: 40  
Compliance Monitoring Start Year :2001

0 Infinity  
0 Infinity  
0 Infinity  
5 Infinity  
0 Infinity  
5 Infinity  
1 Infinity  
5 Infinity  
5 Infinity  
0 Infinity  
0 Infinity  
0 Infinity  
5 Infinity  
2 Infinity  
0 Infinity  
0 Infinity  
0.6 Infinity  
5 Infinity  
0 Infinity

case01.stp

<b>CAS Number</b>	<b>Analyte Name</b>	<b>Concentration</b> pCi/L (Rad) or mg/L (Non-rad)	<b>Peak Year</b>	<b>Kd</b>
3H	Tritium	2.70E+01	2044	0
14C	Carbon-14	5.38E+01	2051	0
59Ni	Nickel-59	0		48
63Ni	Nickel-63	0		48
60Co	Cobalt-60	4.81E-03	2052	0.1
79Se	Selenium-79	0		3.1
90Sr	Strontium-90 + D	0		16.1
93mNb	Niobium-93m	0		100
99Tc	Technetium-99	2.06E+03	2051	0
106Ru	Ruthenium-106	0		1
113mCd	Cadmium-113m	0		1
126Sn	Tin-126	4.01E-05	12032	1
125Sb	Antimony-125	0		1
129I	Iodine-129	6.87E-03	9621	0.2
134Cs	Cesium-134	0		25
137Cs	Cesium-137 + Daughters	0		25
151Sm	Samarium-151	7.31E-13	3961	1
152Eu	Europium-152	0		1
154Eu	Europium-154	0		1
155Eu	Europium-155	0		1
226Ra	Radium-226 + D	6.61E-12	12032	1
228Ra	Radium-228 + D	0		1
227Ac	Actinium-227 + D	0		67
229Th	Thorium-229 + D	0		3
232Th	Thorium-232	0		3
231Pa	Protactinium-231	0		550
232U	Uranium-232	1.65E-11	2175	0.6
233U	Uranium-233	6.28E-05	12032	0.6
234U	Uranium-234	2.95E-05	12032	0.6
235U	Uranium-235 + D	1.26E-06	12032	0.6
236U	Uranium-236	8.29E-07	12032	0.6
238U	Uranium-238 + D	2.83E-05	12032	0.6
237Np	Neptunium-237 + D	0		2
238Pu	Plutonium-238	0		3
239Pu	Plutonium-239	0		3
240Pu	Plutonium-240	0		3
241Pu	Plutonium-241 + D	0		3
242Pu	Plutonium-242	0		3
241Am	Americium-241	0		3
243Am	Americium-243 + D	0		3
242Cm	Curium-242	0		3
243Cm	Curium-243	0		3
244Cm	Curium-244	0		3
7429-90-5	Aluminum	2.35E-07	12032	1
7664-41-7	Ammonia -- (a)	6.37E-03	2051	0.00093
7440-69-9	Bismuth	4.99E-05	2051	
7440-70-2	Calcium	0		4

16887-00-6	Chloride	3.44E-02	2051	
18540-29-9	Chromium	2.00E-02	2051	0
16984-48-8	Fluoride	2.59E-03	2051	
7439-89-6	Iron	0		25
7439-91-0	Lanthanum	2.30E-10	2051	
7439-92-1	Lead	0		5.2
7439-96-5	Manganese	2.95E-10	12032	1
7439-97-6	Mercury	0		5.2
7440-02-0	Nickel	0		48
14797-55-8	Nitrate	1.01E+00	2051	0
14797-65-0	Nitrite	5.85E-01	2051	0
14265-44-2	Phosphate	1.20E-02	2051	
7440-21-3	Silicon	0		30
7440-22-4	Silver	0		2.7
7440-23-5	Sodium	1.27E+00	2051	
14808-79-8	Sulfate	1.32E-01	2051	
7440-61-1	Uranium	8.48E-08	12032	0.6
7440-67-7	Zirconium	0		500
71-36-3	n-Butyl alcohol (1-butanol)	1.61E-03	2051	0.002076

**Kd Bin Half-Life**

	Years
0	12.33
0	5730
5	74999
5	100.1
0.1	5.2713
2	805000
5	28.149
5	16.13
0	211097
1	1.01736
1	14.1
1	246000
1	2.7299
0.2	15700000
5	2.0619
5	29.999
1	89.997
1	13.33
1	8.5919
1	4.68
1	1600
1	5.7498
5	21.769
2	7340
2	1405000000
5	32759
0.6	69.799
0.6	159198
0.6	245694
0.6	703700000
0.6	23420000
0.6	4468000000
2	2140000
2	87.697
2	24110
2	6563
2	14.35
2	373507
2	432.7
2	7370
2	0.44611
2	28.499
2	18.1
1	Infinity
0	Infinity
0	Infinity
5	Infinity

**Report Generated on: 5/26/2005, 3:58:16 PM**  
**Report Generated by devans ( Doug Evans )**  
**Decision Management Tool Version 4.0.0.37**  
241-B-112 TanksPastLeaks\_B-BX-BY.txt  
**Major Assumptions Used:**  
Dilution factor for WMA-B-BX-BY: 40  
Compliance Monitoring Start Year :2001

0 Infinity  
0 Infinity  
0 Infinity  
5 Infinity  
0 Infinity  
5 Infinity  
1 Infinity  
5 Infinity  
5 Infinity  
0 Infinity  
0 Infinity  
0 Infinity  
5 Infinity  
2 Infinity  
0 Infinity  
0 Infinity  
0.6 Infinity  
5 Infinity  
0 Infinity

case01.stp



CAS Number	Analyte Name	Concentration	Peak Year	Kd
		pCi/L (Rad) or mg/L (Non-rad)		
3H	Tritium	8.80E-08	2044	0
14C	Carbon-14	2.65E-03	2051	0
59Ni	Nickel-59	0		48
63Ni	Nickel-63	0		48
60Co	Cobalt-60	1.82E-08	2052	0.1
79Se	Selenium-79	0		3.1
90Sr	Strontium-90 + D	0		16.1
99Tc	Technetium-99	2.40E-04	2051	0
106Ru	Ruthenium-106	0		1
113mCd	Cadmium-113m	0		1
126Sn	Tin-126	6.36E-10	12032	1
125Sb	Antimony-125	0		1
129I	Iodine-129	1.31E-09	9621	0.2
134Cs	Cesium-134	0		25
137Cs	Cesium-137 + Daughters	0		25
151Sm	Samarium-151	8.66E-16	3961	1
152Eu	Europium-152	0		1
154Eu	Europium-154	0		1
155Eu	Europium-155	0		1
226Ra	Radium-226 + D	1.73E-14	12032	1
228Ra	Radium-228 + D	0		1
227Ac	Actinium-227 + D	0		67
229Th	Thorium-229 + D	0		3
232Th	Thorium-232	0		3
231Pa	Protactinium-231	0		550
232U	Uranium-232	0		0.6
233U	Uranium-233	1.00E-12	12032	0.6
234U	Uranium-234	1.58E-08	12032	0.6
235U	Uranium-235 + D	7.08E-10	12032	0.6
236U	Uranium-236	2.64E-10	12032	0.6
238U	Uranium-238 + D	1.62E-08	12032	0.6
237Np	Neptunium-237 + D	0		2
238Pu	Plutonium-238	0		3
239Pu	Plutonium-239	0		3
240Pu	Plutonium-240	0		3
241Pu	Plutonium-241 + D	0		3
242Pu	Plutonium-242	0		3
241Am	Americium-241	0		3
243Am	Americium-243 + D	0		3
242Cm	Curium-242	0		3
243Cm	Curium-243	0		3
244Cm	Curium-244	0		3
7664-41-7	Ammonia -- (a)	3.78E-15	2051	0.00093
7440-69-9	Bismuth	6.51E-04	2051	
7440-70-2	Calcium	0		4
16887-00-6	Chloride	7.03E-03	2051	
18540-29-9	Chromium	2.44E-03	2051	0

16984-48-8	Fluoride	3.54E-02	2051	
7439-89-6	Iron	0		25
7439-91-0	Lanthanum	9.37E-07	2051	
7439-96-5	Manganese	3.17E-10	12032	1
7440-02-0	Nickel	0		48
14797-55-8	Nitrate	5.91E-01	2051	0
14797-65-0	Nitrite	2.74E-07	2051	0
14265-44-2	Phosphate	2.10E-02	2051	
7440-21-3	Silicon	0		30
7440-22-4	Silver	0		2.7
7440-23-5	Sodium	2.55E-01	2051	
14808-79-8	Sulfate	1.94E-03	2051	
7440-61-1	Uranium	4.86E-11	12032	0.6

**Kd Bin Half-Life**

Years	
0	12.33
0	5730
5	74999
5	100.1
0.1	5.2713
2	805000
5	28.149
0	211097
1	1.01736
1	14.1
1	246000
1	2.7299
0.2	15700000
5	2.0619
5	29.999
1	89.997
1	13.33
1	8.5919
1	4.68
1	1600
1	5.7498
5	21.769
2	7340
2	1405000000
5	32759
0.6	69.799
0.6	159198
0.6	245694
0.6	703700000
0.6	23420000
0.6	4468000000
2	2140000
2	87.697
2	24110
2	6563
2	14.35
2	373507
2	432.7
2	7370
2	0.44611
2	28.499
2	18.1
0	Infinity
0	Infinity
5	Infinity
0	Infinity
0	Infinity

**Report Generated on: 5/26/2005, 3:58:52 PM**  
**Report Generated by devans ( Doug Evans )**  
**Decision Management Tool Version 4.0.0.37**  
241-B-201 TanksPastLeaks\_B-BX-BY.txt

**Major Assumptions Used:**  
Dilution factor for WMA-B-BX-BY: 40  
Compliance Monitoring Start Year :2001

0 Infinity  
5 Infinity  
0 Infinity  
1 Infinity  
5 Infinity  
0 Infinity  
0 Infinity  
0 Infinity  
5 Infinity  
2 Infinity  
0 Infinity  
0 Infinity  
0.6 Infinity

case01.stp

<b>CAS Number</b>	<b>Analyte Name</b>	<b>Concentration</b> pCi/L (Rad) or mg/L (Non-rad)	<b>Peak Year</b>	<b>Kd</b>
3H	Tritium	3.60E-08	2044	0
14C	Carbon-14	8.02E-04	2051	0
59Ni	Nickel-59	0		48
63Ni	Nickel-63	0		48
60Co	Cobalt-60	5.52E-09	2052	0.1
79Se	Selenium-79	0		3.1
90Sr	Strontium-90 + D	0		16.1
93mNb	Niobium-93m	0		100
99Tc	Technetium-99	7.30E-05	2051	0
106Ru	Ruthenium-106	0		1
113mCd	Cadmium-113m	0		1
126Sn	Tin-126	1.93E-10	12032	1
125Sb	Antimony-125	0		1
129I	Iodine-129	2.29E-07	9621	0.2
134Cs	Cesium-134	0		25
137Cs	Cesium-137 + Daughters	0		25
151Sm	Samarium-151	2.63E-16	3961	1
152Eu	Europium-152	0		1
154Eu	Europium-154	0		1
155Eu	Europium-155	0		1
226Ra	Radium-226 + D	5.25E-15	12032	1
228Ra	Radium-228 + D	0		1
227Ac	Actinium-227 + D	0		67
229Th	Thorium-229 + D	0		3
232Th	Thorium-232	0		3
231Pa	Protactinium-231	0		550
232U	Uranium-232	0		0.6
233U	Uranium-233	9.91E-14	12032	0.6
234U	Uranium-234	3.06E-09	12032	0.6
235U	Uranium-235 + D	1.40E-10	12032	0.6
236U	Uranium-236	3.45E-11	12032	0.6
238U	Uranium-238 + D	3.18E-09	12032	0.6
237Np	Neptunium-237 + D	0		2
238Pu	Plutonium-238	0		3
239Pu	Plutonium-239	0		3
240Pu	Plutonium-240	0		3
241Pu	Plutonium-241 + D	0		3
242Pu	Plutonium-242	0		3
241Am	Americium-241	0		3
243Am	Americium-243 + D	0		3
242Cm	Curium-242	0		3
243Cm	Curium-243	0		3
244Cm	Curium-244	0		3
7664-41-7	Ammonia -- (a)	1.15E-15	2051	0.00093
7440-69-9	Bismuth	1.97E-04	2051	
7440-70-2	Calcium	0		4
16887-00-6	Chloride	2.14E-03	2051	

18540-29-9	Chromium	7.69E-04	2051	0
16984-48-8	Fluoride	1.07E-02	2051	
7439-89-6	Iron	0		25
7439-91-0	Lanthanum	2.84E-07	2051	
7439-96-5	Manganese	9.61E-11	12032	1
7440-02-0	Nickel	0		48
14797-55-8	Nitrate	1.80E-01	2051	0
14797-65-0	Nitrite	7.65E-05	2051	0
14265-44-2	Phosphate	6.36E-03	2051	
7440-21-3	Silicon	0		30
7440-22-4	Silver	0		2.7
7440-23-5	Sodium	7.77E-02	2051	
14808-79-8	Sulfate	6.10E-04	2051	
7440-61-1	Uranium	9.53E-12	12032	0.6

**Kd Bin Half-Life**

Years	
0	12.33
0	5730
5	74999
5	100.1
0.1	5.2713
2	805000
5	28.149
5	16.13
0	211097
1	1.01736
1	14.1
1	246000
1	2.7299
0.2	15700000
5	2.0619
5	29.999
1	89.997
1	13.33
1	8.5919
1	4.68
1	1600
1	5.7498
5	21.769
2	7340
2	1405000000
5	32759
0.6	69.799
0.6	159198
0.6	245694
0.6	703700000
0.6	23420000
0.6	4468000000
2	2140000
2	87.697
2	24110
2	6563
2	14.35
2	373507
2	432.7
2	7370
2	0.44611
2	28.499
2	18.1
0	Infinity
0	Infinity
5	Infinity
0	Infinity

**Report Generated on: 5/26/2005, 3:59:08 PM**  
**Report Generated by devans ( Doug Evans )**  
**Decision Management Tool Version 4.0.0.37**  
241-B-203 TanksPastLeaks\_B-BX-BY.txt  
**Major Assumptions Used:**  
Dilution factor for WMA-B-BX-BY: 40  
Compliance Monitoring Start Year :2001



0 Infinity  
0 Infinity  
5 Infinity  
0 Infinity  
1 Infinity  
5 Infinity  
0 Infinity  
0 Infinity  
0 Infinity  
5 Infinity  
2 Infinity  
0 Infinity  
0 Infinity  
0.6 Infinity

case01.stp

CAS Number	Analyte Name	Concentration pCi/L (Rad) or mg/L (Non-rad)	Peak Year	Kd
3H	Tritium	2.45E-07	2044	0
14C	Carbon-14	1.08E-05	2051	0
59Ni	Nickel-59	0		48
63Ni	Nickel-63	0		48
60Co	Cobalt-60	5.01E-11	2052	0.1
79Se	Selenium-79	0		3.1
90Sr	Strontium-90 + D	0		16.1
93mNb	Niobium-93m	0		100
99Tc	Technetium-99	2.58E-06	2051	0
106Ru	Ruthenium-106	0		1
113mCd	Cadmium-113m	0		1
126Sn	Tin-126	1.48E-12	12032	1
125Sb	Antimony-125	0		1
129I	Iodine-129	6.00E-06	9621	0.2
134Cs	Cesium-134	0		25
137Cs	Cesium-137 + Daughters	0		25
151Sm	Samarium-151	0		1
152Eu	Europium-152	0		1
154Eu	Europium-154	0		1
155Eu	Europium-155	0		1
226Ra	Radium-226 + D	5.81E-17	12032	1
228Ra	Radium-228 + D	0		1
227Ac	Actinium-227 + D	0		67
229Th	Thorium-229 + D	0		3
232Th	Thorium-232	0		3
231Pa	Protactinium-231	0		550
232U	Uranium-232	0		0.6
233U	Uranium-233	1.49E-12	12032	0.6
234U	Uranium-234	3.81E-09	12032	0.6
235U	Uranium-235 + D	1.64E-10	12032	0.6
236U	Uranium-236	1.00E-10	12032	0.6
238U	Uranium-238 + D	3.83E-09	12032	0.6
237Np	Neptunium-237 + D	0		2
238Pu	Plutonium-238	0		3
239Pu	Plutonium-239	0		3
240Pu	Plutonium-240	0		3
241Pu	Plutonium-241 + D	0		3
242Pu	Plutonium-242	0		3
241Am	Americium-241	0		3
243Am	Americium-243 + D	0		3
242Cm	Curium-242	0		3
243Cm	Curium-243	0		3
244Cm	Curium-244	0		3
7664-41-7	Ammonia -- (a)	0		0.00093
7440-69-9	Bismuth	1.47E-06	2051	
7440-70-2	Calcium	0		4
16887-00-6	Chloride	2.22E-04	2051	

18540-29-9	Chromium	7.63E-04	2051	0
16984-48-8	Fluoride	8.03E-05	2051	
7439-89-6	Iron	0		25
7439-91-0	Lanthanum	2.12E-09	2051	
7439-96-5	Manganese	7.29E-13	12032	1
7440-02-0	Nickel	0		48
14797-55-8	Nitrate	1.90E-02	2051	0
14797-65-0	Nitrite	2.01E-03	2051	0
14265-44-2	Phosphate	4.75E-05	2051	
7440-21-3	Silicon	0		30
7440-22-4	Silver	0		2.7
7440-23-5	Sodium	8.75E-03	2051	
14808-79-8	Sulfate	7.17E-04	2051	
7440-61-1	Uranium	1.15E-11	12032	0.6

**Kd Bin Half-Life**

Years	
0	12.33
0	5730
5	74999
5	100.1
0.1	5.2713
2	805000
5	28.149
5	16.13
0	211097
1	1.01736
1	14.1
1	246000
1	2.7299
0.2	15700000
5	2.0619
5	29.999
1	89.997
1	13.33
1	8.5919
1	4.68
1	1600
1	5.7498
5	21.769
2	7340
2	1405000000
5	32759
0.6	69.799
0.6	159198
0.6	245694
0.6	703700000
0.6	23420000
0.6	4468000000
2	2140000
2	87.697
2	24110
2	6563
2	14.35
2	373507
2	432.7
2	7370
2	0.44611
2	28.499
2	18.1
0	Infinity
0	Infinity
5	Infinity
0	Infinity

**Report Generated on: 5/26/2005, 3:59:23 PM**  
**Report Generated by devans ( Doug Evans )**  
**Decision Management Tool Version 4.0.0.37**  
241-B-204 TanksPastLeaks\_B-BX-BY.txt  
**Major Assumptions Used:**  
Dilution factor for WMA-B-BX-BY: 40  
Compliance Monitoring Start Year :2001

0 Infinity  
0 Infinity  
5 Infinity  
0 Infinity  
1 Infinity  
5 Infinity  
0 Infinity  
0 Infinity  
0 Infinity  
5 Infinity  
2 Infinity  
0 Infinity  
0 Infinity  
0.6 Infinity

case01.stp

<b>CAS Number</b>	<b>Analyte Name</b>	<b>Concentration</b> pCi/L (Rad) or mg/L (Non-rad)	<b>Peak Year</b>	<b>Kd</b>
3H	Tritium	7.17E+00	2044	0
14C	Carbon-14	1.05E+01	2051	0
59Ni	Nickel-59	0		48
63Ni	Nickel-63	0		48
60Co	Cobalt-60	3.38E-03	2052	0.1
79Se	Selenium-79	0		3.1
90Sr	Strontium-90 + D	0		16.1
93mNb	Niobium-93m	0		100
99Tc	Technetium-99	4.99E+02	2051	0
106Ru	Ruthenium-106	0		1
113mCd	Cadmium-113m	0		1
126Sn	Tin-126	1.00E-05	12032	1
125Sb	Antimony-125	0		1
129I	Iodine-129	1.03E-03	9621	0.2
134Cs	Cesium-134	0		25
137Cs	Cesium-137 + Daughters	0		25
151Sm	Samarium-151	1.15E-12	3961	1
152Eu	Europium-152	0		1
154Eu	Europium-154	0		1
155Eu	Europium-155	0		1
226Ra	Radium-226 + D	1.63E-12	12032	1
228Ra	Radium-228 + D	0		1
227Ac	Actinium-227 + D	0		67
229Th	Thorium-229 + D	0		3
232Th	Thorium-232	0		3
231Pa	Protactinium-231	0		550
232U	Uranium-232	2.53E-12	2175	0.6
233U	Uranium-233	9.13E-06	12032	0.6
234U	Uranium-234	6.16E-05	12032	0.6
235U	Uranium-235 + D	2.69E-06	12032	0.6
236U	Uranium-236	1.91E-06	12032	0.6
238U	Uranium-238 + D	5.93E-05	12032	0.6
237Np	Neptunium-237 + D	0		2
238Pu	Plutonium-238	0		3
239Pu	Plutonium-239	0		3
240Pu	Plutonium-240	0		3
241Pu	Plutonium-241 + D	0		3
242Pu	Plutonium-242	0		3
241Am	Americium-241	0		3
243Am	Americium-243 + D	0		3
242Cm	Curium-242	0		3
243Cm	Curium-243	0		3
244Cm	Curium-244	0		3
7429-90-5	Aluminum	3.26E-07	12032	1
7664-41-7	Ammonia -- (a)	1.06E-03	2051	0.00093
7440-69-9	Bismuth	2.10E-06	2051	
7440-70-2	Calcium	0		4



16887-00-6	Chloride	7.19E-02	2051	
18540-29-9	Chromium	3.03E-03	2051	0
16984-48-8	Fluoride	7.39E-05	2051	
7439-89-6	Iron	0		25
7439-91-0	Lanthanum	1.09E-13	2051	
7439-92-1	Lead	0		5.2
7439-96-5	Manganese	5.18E-11	12032	1
7439-97-6	Mercury	0		5.2
7440-02-0	Nickel	0		48
14797-55-8	Nitrate	1.46E+00	2051	0
14797-65-0	Nitrite	2.20E-01	2051	0
14265-44-2	Phosphate	2.72E-02	2051	
7440-21-3	Silicon	0		30
7440-22-4	Silver	0		2.7
7440-23-5	Sodium	2.49E+00	2051	
14808-79-8	Sulfate	1.33E-01	2051	
7440-61-1	Uranium	1.78E-07	12032	0.6
7440-67-7	Zirconium	0		500
71-36-3	n-Butyl alcohol (1-butanol)	5.07E-05	2051	0.002076

**Kd Bin Half-Life**

	Years
0	12.33
0	5730
5	74999
5	100.1
0.1	5.2713
2	805000
5	28.149
5	16.13
0	211097
1	1.01736
1	14.1
1	246000
1	2.7299
0.2	15700000
5	2.0619
5	29.999
1	89.997
1	13.33
1	8.5919
1	4.68
1	1600
1	5.7498
5	21.769
2	7340
2	1405000000
5	32759
0.6	69.799
0.6	159198
0.6	245694
0.6	703700000
0.6	23420000
0.6	4468000000
2	2140000
2	87.697
2	24110
2	6563
2	14.35
2	373507
2	432.7
2	7370
2	0.44611
2	28.499
2	18.1
1	Infinity
0	Infinity
0	Infinity
5	Infinity

**Report Generated on: 5/26/2005, 3:59:43 PM**  
**Report Generated by devans ( Doug Evans )**  
**Decision Management Tool Version 4.0.0.37**  
241-BX-101 TanksPastLeaks\_B-BX-BY.txt  
**Major Assumptions Used:**  
Dilution factor for WMA-B-BX-BY: 40  
Compliance Monitoring Start Year :2001

0 Infinity  
0 Infinity  
0 Infinity  
5 Infinity  
0 Infinity  
5 Infinity  
1 Infinity  
5 Infinity  
5 Infinity  
0 Infinity  
0 Infinity  
0 Infinity  
5 Infinity  
2 Infinity  
0 Infinity  
0 Infinity  
0.6 Infinity  
5 Infinity  
0 Infinity

case01.stp

CAS Number	Analyte Name	Concentration pCi/L (Rad) or mg/L (Non-rad)	Peak Year	Kd
3H	Tritium	5.73E+02	2044	0
14C	Carbon-14	2.08E+02	2051	0
59Ni	Nickel-59	0		48
63Ni	Nickel-63	0		48
60Co	Cobalt-60	1.46E-03	2052	0.1
79Se	Selenium-79	0		3.1
90Sr	Strontium-90 + D	0		16.1
93mNb	Niobium-93m	0		100
99Tc	Technetium-99	4.59E+03	2051	0
106Ru	Ruthenium-106	0		1
113mCd	Cadmium-113m	0		1
126Sn	Tin-126	5.08E-05	12032	1
125Sb	Antimony-125	0		1
129I	Iodine-129	1.14E-02	9621	0.2
134Cs	Cesium-134	0		25
137Cs	Cesium-137 + Daughters	0		25
151Sm	Samarium-151	3.74E-12	3961	1
152Eu	Europium-152	0		1
154Eu	Europium-154	0		1
155Eu	Europium-155	0		1
226Ra	Radium-226 + D	1.09E-09	12032	1
228Ra	Radium-228 + D	0		1
227Ac	Actinium-227 + D	0		67
229Th	Thorium-229 + D	0		3
232Th	Thorium-232	0		3
231Pa	Protactinium-231	0		550
232U	Uranium-232	1.73E-10	2175	0.6
233U	Uranium-233	9.57E-07	12032	0.6
234U	Uranium-234	1.25E+00	12032	0.6
235U	Uranium-235 + D	5.83E-02	12032	0.6
236U	Uranium-236	1.10E-02	12032	0.6
238U	Uranium-238 + D	1.31E+00	12032	0.6
237Np	Neptunium-237 + D	0		2
238Pu	Plutonium-238	0		3
239Pu	Plutonium-239	0		3
240Pu	Plutonium-240	0		3
241Pu	Plutonium-241 + D	0		3
242Pu	Plutonium-242	0		3
241Am	Americium-241	0		3
243Am	Americium-243 + D	0		3
242Cm	Curium-242	0		3
243Cm	Curium-243	0		3
244Cm	Curium-244	0		3
7664-41-7	Ammonia -- (a)	8.63E-04	2051	0.00093
7440-69-9	Bismuth	4.38E-02	2051	
7440-70-2	Calcium	0		4
16887-00-6	Chloride	8.43E-02	2051	

18540-29-9	Chromium	1.22E-01	2051	0
16984-48-8	Fluoride	2.64E-08	2051	
7439-89-6	Iron	0		25
7439-96-5	Manganese	1.84E-15	12032	1
7440-02-0	Nickel	0		48
14797-55-8	Nitrate	7.66E+00	2051	0
14797-65-0	Nitrite	5.44E-01	2051	0
14265-44-2	Phosphate	8.33E+00	2051	
7440-21-3	Silicon	0		30
7440-22-4	Silver	0		2.7
7440-23-5	Sodium	3.39E+01	2051	
14808-79-8	Sulfate	1.13E+01	2051	
7440-61-1	Uranium	3.94E-03	12032	0.6

**Kd Bin Half-Life**

Years	
0	12.33
0	5730
5	74999
5	100.1
0.1	5.2713
2	805000
5	28.149
5	16.13
0	211097
1	1.01736
1	14.1
1	246000
1	2.7299
0.2	15700000
5	2.0619
5	29.999
1	89.997
1	13.33
1	8.5919
1	4.68
1	1600
1	5.7498
5	21.769
2	7340
2	1405000000
5	32759
0.6	69.799
0.6	159198
0.6	245694
0.6	703700000
0.6	23420000
0.6	4468000000
2	2140000
2	87.697
2	24110
2	6563
2	14.35
2	373507
2	432.7
2	7370
2	0.44611
2	28.499
2	18.1
0	Infinity
0	Infinity
5	Infinity
0	Infinity

**Report Generated on: 5/26/2005, 4:00:03 PM**  
**Report Generated by devans ( Doug Evans )**  
**Decision Management Tool Version 4.0.0.37**  
241-BX-102 TanksPastLeaks\_B-BX-BY.txt  
**Major Assumptions Used:**  
Dilution factor for WMA-B-BX-BY: 40  
Compliance Monitoring Start Year :2001

0 Infinity  
0 Infinity  
5 Infinity  
1 Infinity  
5 Infinity  
0 Infinity  
0 Infinity  
0 Infinity  
5 Infinity  
2 Infinity  
0 Infinity  
0 Infinity  
0.6 Infinity



case01.stp

CAS Number	Analyte Name	Concentration pCi/L (Rad) or mg/L (Non-rad)	Peak Year	Kd
3H	Tritium	4.94E+01	2044	0
14C	Carbon-14	6.49E+01	2051	0
59Ni	Nickel-59	0		48
63Ni	Nickel-63	0		48
60Co	Cobalt-60	6.31E-03	2052	0.1
79Se	Selenium-79	0		3.1
90Sr	Strontium-90 + D	0		16.1
93mNb	Niobium-93m	0		100
99Tc	Technetium-99	2.38E+03	2051	0
106Ru	Ruthenium-106	0		1
113mCd	Cadmium-113m	0		1
126Sn	Tin-126	4.61E-05	12032	1
125Sb	Antimony-125	0		1
129I	Iodine-129	1.01E-02	9621	0.2
134Cs	Cesium-134	0		25
137Cs	Cesium-137 + Daughters	0		25
151Sm	Samarium-151	1.01E-12	3961	1
152Eu	Europium-152	0		1
154Eu	Europium-154	0		1
155Eu	Europium-155	0		1
226Ra	Radium-226 + D	7.19E-12	12032	1
228Ra	Radium-228 + D	0		1
227Ac	Actinium-227 + D	0		67
229Th	Thorium-229 + D	0		3
232Th	Thorium-232	0		3
231Pa	Protactinium-231	0		550
232U	Uranium-232	2.14E-11	2175	0.6
233U	Uranium-233	8.12E-05	12032	0.6
234U	Uranium-234	3.90E-05	12032	0.6
235U	Uranium-235 + D	1.66E-06	12032	0.6
236U	Uranium-236	1.07E-06	12032	0.6
238U	Uranium-238 + D	3.75E-05	12032	0.6
237Np	Neptunium-237 + D	0		2
238Pu	Plutonium-238	0		3
239Pu	Plutonium-239	0		3
240Pu	Plutonium-240	0		3
241Pu	Plutonium-241 + D	0		3
242Pu	Plutonium-242	0		3
241Am	Americium-241	0		3
243Am	Americium-243 + D	0		3
242Cm	Curium-242	0		3
243Cm	Curium-243	0		3
244Cm	Curium-244	0		3
7429-90-5	Aluminum	3.20E-07	12032	1
7664-41-7	Ammonia -- (a)	7.04E-03	2051	0.00093
7440-69-9	Bismuth	2.78E-05	2051	
7440-70-2	Calcium	0		4

16887-00-6	Chloride	4.33E-02	2051	
18540-29-9	Chromium	2.76E-02	2051	0
16984-48-8	Fluoride	8.98E-04	2051	
7439-89-6	Iron	0		25
7439-91-0	Lanthanum	2.16E-11	2051	
7439-92-1	Lead	0		5.2
7439-96-5	Manganese	4.49E-10	12032	1
7439-97-6	Mercury	0		5.2
7440-02-0	Nickel	0		48
14797-55-8	Nitrate	1.41E+00	2051	0
14797-65-0	Nitrite	6.96E-01	2051	0
14265-44-2	Phosphate	1.16E-02	2051	
7440-21-3	Silicon	0		30
7440-22-4	Silver	0		2.7
7440-23-5	Sodium	1.69E+00	2051	
14808-79-8	Sulfate	1.53E-01	2051	
7440-61-1	Uranium	1.12E-07	12032	0.6
7440-67-7	Zirconium	0		500
71-36-3	n-Butyl alcohol (1-butanol)	1.50E-04	2051	0.002076

**Kd Bin Half-Life**

Years  
0 12.33  
0 5730  
5 74999  
5 100.1  
0.1 5.2713  
2 805000  
5 28.149  
5 16.13  
0 211097  
1 1.01736  
1 14.1  
1 246000  
1 2.7299  
0.2 15700000  
5 2.0619  
5 29.999  
1 89.997  
1 13.33  
1 8.5919  
1 4.68  
1 1600  
1 5.7498  
5 21.769  
2 7340  
2 1405000000  
5 32759  
0.6 69.799  
0.6 159198  
0.6 245694  
0.6 703700000  
0.6 23420000  
0.6 4468000000  
2 2140000  
2 87.697  
2 24110  
2 6563  
2 14.35  
2 373507  
2 432.7  
2 7370  
2 0.44611  
2 28.499  
2 18.1  
1 Infinity  
0 Infinity  
0 Infinity  
5 Infinity

**Report Generated on: 5/26/2005, 4:01:04 PM**  
**Report Generated by devans ( Doug Evans )**  
**Decision Management Tool Version 4.0.0.37**  
241-BX-108 TanksPastLeaks\_B-BX-BY.txt  
**Major Assumptions Used:**  
Dilution factor for WMA-B-BX-BY: 40  
Compliance Monitoring Start Year :2001

0 Infinity  
0 Infinity  
0 Infinity  
5 Infinity  
0 Infinity  
5 Infinity  
1 Infinity  
5 Infinity  
5 Infinity  
0 Infinity  
0 Infinity  
0 Infinity  
5 Infinity  
2 Infinity  
0 Infinity  
0 Infinity  
0.6 Infinity  
5 Infinity  
0 Infinity

case01.stp

CAS Number	Analyte Name	Concentration pCi/L (Rad) or mg/L (Non-rad)	Peak Year	Kd
3H	Tritium	1.74E+01	2044	0
14C	Carbon-14	2.77E+01	2051	0
59Ni	Nickel-59	0		48
63Ni	Nickel-63	0		48
60Co	Cobalt-60	1.06E-03	2052	0.1
79Se	Selenium-79	0		3.1
90Sr	Strontium-90 + D	0		16.1
93mNb	Niobium-93m	0		100
99Tc	Technetium-99	6.04E+02	2051	0
106Ru	Ruthenium-106	0		1
113mCd	Cadmium-113m	0		1
126Sn	Tin-126	1.17E-05	12032	1
125Sb	Antimony-125	0		1
129I	Iodine-129	4.82E-03	9621	0.2
134Cs	Cesium-134	0		25
137Cs	Cesium-137 + Daughters	0		25
151Sm	Samarium-151	2.32E-14	3961	1
152Eu	Europium-152	0		1
154Eu	Europium-154	0		1
155Eu	Europium-155	0		1
226Ra	Radium-226 + D	3.75E-12	12032	1
228Ra	Radium-228 + D	0		1
227Ac	Actinium-227 + D	0		67
229Th	Thorium-229 + D	0		3
232Th	Thorium-232	0		3
231Pa	Protactinium-231	0		550
232U	Uranium-232	2.91E-11	2175	0.6
233U	Uranium-233	1.10E-04	12032	0.6
234U	Uranium-234	7.26E-06	12032	0.6
235U	Uranium-235 + D	2.78E-07	12032	0.6
236U	Uranium-236	1.90E-07	12032	0.6
238U	Uranium-238 + D	6.12E-06	12032	0.6
237Np	Neptunium-237 + D	0		2
238Pu	Plutonium-238	0		3
239Pu	Plutonium-239	0		3
240Pu	Plutonium-240	0		3
241Pu	Plutonium-241 + D	0		3
242Pu	Plutonium-242	0		3
241Am	Americium-241	0		3
243Am	Americium-243 + D	0		3
242Cm	Curium-242	0		3
243Cm	Curium-243	0		3
244Cm	Curium-244	0		3
7429-90-5	Aluminum	2.20E-07	12032	1
7664-41-7	Ammonia -- (a)	2.78E-03	2051	0.00093
7440-69-9	Bismuth	1.04E-04	2051	
7440-70-2	Calcium	0		4

16887-00-6	Chloride	2.31E-02	2051	
18540-29-9	Chromium	8.80E-03	2051	0
16984-48-8	Fluoride	6.20E-03	2051	
7439-89-6	Iron	0		25
7439-91-0	Lanthanum	7.46E-10	2051	
7439-92-1	Lead	0		5.2
7439-96-5	Manganese	1.09E-10	12032	1
7439-97-6	Mercury	0		5.2
7440-02-0	Nickel	0		48
14797-55-8	Nitrate	6.59E-01	2051	0
14797-65-0	Nitrite	3.58E-01	2051	0
14265-44-2	Phosphate	1.81E-02	2051	
7440-21-3	Silicon	0		30
7440-23-5	Sodium	7.80E-01	2051	
14808-79-8	Sulfate	3.64E-02	2051	
7440-61-1	Uranium	1.84E-08	12032	0.6
7440-67-7	Zirconium	0		500
71-36-3	n-Butyl alcohol (1-butanol)	5.17E-03	2051	0.002076



**Kd Bin Half-Life**

	Years
0	12.33
0	5730
5	74999
5	100.1
0.1	5.2713
2	805000
5	28.149
5	16.13
0	211097
1	1.01736
1	14.1
1	246000
1	2.7299
0.2	15700000
5	2.0619
5	29.999
1	89.997
1	13.33
1	8.5919
1	4.68
1	1600
1	5.7498
5	21.769
2	7340
2	1405000000
5	32759
0.6	69.799
0.6	159198
0.6	245694
0.6	703700000
0.6	23420000
0.6	4468000000
2	2140000
2	87.697
2	24110
2	6563
2	14.35
2	373507
2	432.7
2	7370
2	0.44611
2	28.499
2	18.1
1	Infinity
0	Infinity
0	Infinity
5	Infinity

**Report Generated on: 5/26/2005, 4:03:25 PM**  
**Report Generated by devans ( Doug Evans )**  
**Decision Management Tool Version 4.0.0.37**  
241-BY-103 TanksPastLeaks\_B-BX-BY.txt  
**Major Assumptions Used:**  
Dilution factor for WMA-B-BX-BY: 40  
Compliance Monitoring Start Year :2001

0 Infinity  
0 Infinity  
0 Infinity  
5 Infinity  
0 Infinity  
5 Infinity  
1 Infinity  
5 Infinity  
5 Infinity  
0 Infinity  
0 Infinity  
0 Infinity  
5 Infinity  
0 Infinity  
0 Infinity  
0.6 Infinity  
5 Infinity  
0 Infinity

case01.stp

CAS Number	Analyte Name	Concentration pCi/L (Rad) or mg/L (Non-rad)	Peak Year	Kd
3H	Tritium	5.24E+01	2044	0
14C	Carbon-14	8.30E+01	2051	0
59Ni	Nickel-59	0		48
63Ni	Nickel-63	0		48
60Co	Cobalt-60	3.18E-03	2052	0.1
79Se	Selenium-79	0		3.1
90Sr	Strontium-90 + D	0		16.1
93mNb	Niobium-93m	0		100
99Tc	Technetium-99	1.81E+03	2051	0
106Ru	Ruthenium-106	0		1
113mCd	Cadmium-113m	0		1
126Sn	Tin-126	3.52E-05	12032	1
125Sb	Antimony-125	0		1
129I	Iodine-129	1.45E-02	9621	0.2
134Cs	Cesium-134	0		25
137Cs	Cesium-137 + Daughters	0		25
151Sm	Samarium-151	6.95E-14	3961	1
152Eu	Europium-152	0		1
154Eu	Europium-154	0		1
155Eu	Europium-155	0		1
226Ra	Radium-226 + D	1.13E-11	12032	1
228Ra	Radium-228 + D	0		1
227Ac	Actinium-227 + D	0		67
229Th	Thorium-229 + D	0		3
232Th	Thorium-232	0		3
231Pa	Protactinium-231	0		550
232U	Uranium-232	8.72E-11	2175	0.6
233U	Uranium-233	3.29E-04	12032	0.6
234U	Uranium-234	2.18E-05	12032	0.6
235U	Uranium-235 + D	8.33E-07	12032	0.6
236U	Uranium-236	5.70E-07	12032	0.6
238U	Uranium-238 + D	1.84E-05	12032	0.6
237Np	Neptunium-237 + D	0		2
238Pu	Plutonium-238	0		3
239Pu	Plutonium-239	0		3
240Pu	Plutonium-240	0		3
241Pu	Plutonium-241 + D	0		3
242Pu	Plutonium-242	0		3
241Am	Americium-241	0		3
243Am	Americium-243 + D	0		3
242Cm	Curium-242	0		3
243Cm	Curium-243	0		3
244Cm	Curium-244	0		3
7429-90-5	Aluminum	6.59E-07	12032	1
7664-41-7	Ammonia -- (a)	8.33E-03	2051	0.00093
7440-69-9	Bismuth	3.11E-04	2051	
7440-70-2	Calcium	0		4

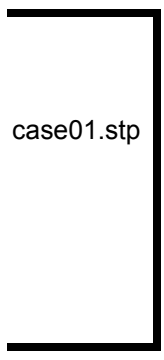
16887-00-6	Chloride	6.94E-02	2051	
18540-29-9	Chromium	2.64E-02	2051	0
16984-48-8	Fluoride	1.86E-02	2051	
7439-89-6	Iron	0		25
7439-91-0	Lanthanum	2.24E-09	2051	
7439-92-1	Lead	0		5.2
7439-96-5	Manganese	3.27E-10	12032	1
7439-97-6	Mercury	0		5.2
7440-02-0	Nickel	0		48
14797-55-8	Nitrate	1.98E+00	2051	0
14797-65-0	Nitrite	1.07E+00	2051	0
14265-44-2	Phosphate	5.43E-02	2051	
7440-21-3	Silicon	0		30
7440-23-5	Sodium	2.34E+00	2051	
14808-79-8	Sulfate	1.09E-01	2051	
7440-61-1	Uranium	5.51E-08	12032	0.6
7440-67-7	Zirconium	0		500
71-36-3	n-Butyl alcohol (1-butanol)	1.55E-02	2051	0.002076

**Kd Bin Half-Life**

Years	
0	12.33
0	5730
5	74999
5	100.1
0.1	5.2713
2	805000
5	28.149
5	16.13
0	211097
1	1.01736
1	14.1
1	246000
1	2.7299
0.2	15700000
5	2.0619
5	29.999
1	89.997
1	13.33
1	8.5919
1	4.68
1	1600
1	5.7498
5	21.769
2	7340
2	1405000000
5	32759
0.6	69.799
0.6	159198
0.6	245694
0.6	703700000
0.6	23420000
0.6	4468000000
2	2140000
2	87.697
2	24110
2	6563
2	14.35
2	373507
2	432.7
2	7370
2	0.44611
2	28.499
2	18.1
1	Infinity
0	Infinity
0	Infinity
5	Infinity

**Report Generated on: 5/26/2005, 4:03:53 PM**  
**Report Generated by devans ( Doug Evans )**  
**Decision Management Tool Version 4.0.0.37**  
241-BY-107 TanksPastLeaks\_B-BX-BY.txt  
**Major Assumptions Used:**  
Dilution factor for WMA-B-BX-BY: 40  
Compliance Monitoring Start Year :2001

0 Infinity  
0 Infinity  
0 Infinity  
5 Infinity  
0 Infinity  
5 Infinity  
1 Infinity  
5 Infinity  
5 Infinity  
0 Infinity  
0 Infinity  
0 Infinity  
5 Infinity  
0 Infinity  
0 Infinity  
0.6 Infinity  
5 Infinity  
0 Infinity



case01.stp



CAS Number	Analyte Name	Concentration pCi/L (Rad) or mg/L (Non-rad)	Peak Year	Kd
3H	Tritium	1.74E+01	2044	0
14C	Carbon-14	2.77E+01	2051	0
59Ni	Nickel-59	0		48
63Ni	Nickel-63	0		48
60Co	Cobalt-60	1.06E-03	2052	0.1
79Se	Selenium-79	0		3.1
90Sr	Strontium-90 + D	0		16.1
93mNb	Niobium-93m	0		100
99Tc	Technetium-99	6.04E+02	2051	0
106Ru	Ruthenium-106	0		1
113mCd	Cadmium-113m	0		1
126Sn	Tin-126	1.17E-05	12032	1
125Sb	Antimony-125	0		1
129I	Iodine-129	4.82E-03	9621	0.2
134Cs	Cesium-134	0		25
137Cs	Cesium-137 + Daughters	0		25
151Sm	Samarium-151	2.32E-14	3961	1
152Eu	Europium-152	0		1
154Eu	Europium-154	0		1
155Eu	Europium-155	0		1
226Ra	Radium-226 + D	3.75E-12	12032	1
228Ra	Radium-228 + D	0		1
227Ac	Actinium-227 + D	0		67
229Th	Thorium-229 + D	0		3
232Th	Thorium-232	0		3
231Pa	Protactinium-231	0		550
232U	Uranium-232	2.91E-11	2175	0.6
233U	Uranium-233	1.09E-04	12032	0.6
234U	Uranium-234	7.26E-06	12032	0.6
235U	Uranium-235 + D	2.78E-07	12032	0.6
236U	Uranium-236	1.90E-07	12032	0.6
238U	Uranium-238 + D	6.13E-06	12032	0.6
237Np	Neptunium-237 + D	0		2
238Pu	Plutonium-238	0		3
239Pu	Plutonium-239	0		3
240Pu	Plutonium-240	0		3
241Pu	Plutonium-241 + D	0		3
242Pu	Plutonium-242	0		3
241Am	Americium-241	0		3
243Am	Americium-243 + D	0		3
242Cm	Curium-242	0		3
243Cm	Curium-243	0		3
244Cm	Curium-244	0		3
7429-90-5	Aluminum	2.19E-07	12032	1
7664-41-7	Ammonia -- (a)	2.78E-03	2051	0.00093
7440-69-9	Bismuth	1.04E-04	2051	
7440-70-2	Calcium	0		4

16887-00-6	Chloride	2.31E-02	2051	
18540-29-9	Chromium	8.80E-03	2051	0
16984-48-8	Fluoride	6.20E-03	2051	
7439-89-6	Iron	0		25
7439-91-0	Lanthanum	7.46E-10	2051	
7439-92-1	Lead	0		5.2
7439-96-5	Manganese	1.09E-10	12032	1
7439-97-6	Mercury	0		5.2
7440-02-0	Nickel	0		48
14797-55-8	Nitrate	6.59E-01	2051	0
14797-65-0	Nitrite	3.58E-01	2051	0
14265-44-2	Phosphate	1.81E-02	2051	
7440-21-3	Silicon	0		30
7440-23-5	Sodium	7.80E-01	2051	
14808-79-8	Sulfate	3.64E-02	2051	
7440-61-1	Uranium	1.84E-08	12032	0.6
7440-67-7	Zirconium	0		500
71-36-3	n-Butyl alcohol (1-butanol)	5.17E-03	2051	0.002076

**Kd Bin Half-Life**

Years	
0	12.33
0	5730
5	74999
5	100.1
0.1	5.2713
2	805000
5	28.149
5	16.13
0	211097
1	1.01736
1	14.1
1	246000
1	2.7299
0.2	15700000
5	2.0619
5	29.999
1	89.997
1	13.33
1	8.5919
1	4.68
1	1600
1	5.7498
5	21.769
2	7340
2	14050000000
5	32759
0.6	69.799
0.6	159198
0.6	245694
0.6	703700000
0.6	23420000
0.6	4468000000
2	2140000
2	87.697
2	24110
2	6563
2	14.35
2	373507
2	432.7
2	7370
2	0.44611
2	28.499
2	18.1
1	Infinity
0	Infinity
0	Infinity
5	Infinity

**Report Generated on: 5/26/2005, 4:04:10 PM**  
**Report Generated by devans ( Doug Evans )**  
**Decision Management Tool Version 4.0.0.37**  
241-BY-108 TanksPastLeaks\_B-BX-BY.txt  
**Major Assumptions Used:**  
Dilution factor for WMA-B-BX-BY: 40  
Compliance Monitoring Start Year :2001

0 Infinity  
0 Infinity  
0 Infinity  
5 Infinity  
0 Infinity  
5 Infinity  
1 Infinity  
5 Infinity  
5 Infinity  
0 Infinity  
0 Infinity  
0 Infinity  
5 Infinity  
0 Infinity  
0 Infinity  
0.6 Infinity  
5 Infinity  
0 Infinity

case01.stp

<b>CAS Number</b>	<b>Analyte Name</b>	<b>Concentration</b> pCi/L (Rad) or mg/L (Non-rad)	<b>Peak Year</b>	<b>Kd</b>
3H	Tritium	2.60E-03	2071	0
14C	Carbon-14	5.86E-03	2192	0
59Ni	Nickel-59	0		48
63Ni	Nickel-63	0		48
60Co	Cobalt-60	4.01E-13	2073	0.1
79Se	Selenium-79	0		3.1
90Sr	Strontium-90 + D	0		16.1
93mNb	Niobium-93m	0		100
99Tc	Technetium-99	1.98E-02	5701	0
106Ru	Ruthenium-106	0		1
113mCd	Cadmium-113m	0		1
126Sn	Tin-126	0		1
125Sb	Antimony-125	0		1
129I	Iodine-129	5.29E-07	12032	0.2
134Cs	Cesium-134	0		25
137Cs	Cesium-137 + Daughters	0		25
151Sm	Samarium-151	0		1
152Eu	Europium-152	0		1
154Eu	Europium-154	0		1
155Eu	Europium-155	0		1
226Ra	Radium-226 + D	0		1
228Ra	Radium-228 + D	0		1
227Ac	Actinium-227 + D	0		67
229Th	Thorium-229 + D	0		3
232Th	Thorium-232	0		3
231Pa	Protactinium-231	0		550
232U	Uranium-232	0		0.6
233U	Uranium-233	0		0.6
234U	Uranium-234	0		0.6
235U	Uranium-235 + D	0		0.6
236U	Uranium-236	0		0.6
238U	Uranium-238 + D	0		0.6
237Np	Neptunium-237 + D	0		2
238Pu	Plutonium-238	0		3
239Pu	Plutonium-239	0		3
240Pu	Plutonium-240	0		3
241Pu	Plutonium-241 + D	0		3
242Pu	Plutonium-242	0		3
241Am	Americium-241	0		3
243Am	Americium-243 + D	0		3
242Cm	Curium-242	0		3
243Cm	Curium-243	0		3
244Cm	Curium-244	0		3
7664-41-7	Ammonia -- (a)	1.43E-04	5711	0.00093
7440-69-9	Bismuth	9.45E-06	5711	
7440-70-2	Calcium	0		4
16887-00-6	Chloride	1.63E-04	5711	

18540-29-9	Chromium	3.56E-05	5711	0
16984-48-8	Fluoride	3.72E-04	5711	
7439-89-6	Iron	0		25
7439-97-6	Mercury	0		5.2
7440-02-0	Nickel	0		48
14797-55-8	Nitrate	1.06E-02	5711	0
14797-65-0	Nitrite	2.30E-04	5711	0
14265-44-2	Phosphate	6.65E-04	5711	
7440-21-3	Silicon	0		30
7440-22-4	Silver	0		2.7
7440-23-5	Sodium	5.58E-03	5711	
14808-79-8	Sulfate	7.03E-04	5711	
7440-61-1	Uranium	0		0.6
7440-67-7	Zirconium	0		500

**Kd Bin Half-Life**

Years  
0 12.33  
0 5730  
5 74999  
5 100.1  
0.1 5.2713  
2 805000  
5 28.149  
5 16.13  
0 211097  
1 1.01736  
1 14.1  
1 246000  
1 2.7299  
0.2 15700000  
5 2.0619  
5 29.999  
1 89.997  
1 13.33  
1 8.5919  
1 4.68  
1 1600  
1 5.7498  
5 21.769  
2 7340  
2 1405000000  
5 32759  
0.6 69.799  
0.6 159198  
0.6 245694  
0.6 703700000  
0.6 23420000  
0.6 4468000000  
2 2140000  
2 87.697  
2 24110  
2 6563  
2 14.35  
2 373507  
2 432.7  
2 7370  
2 0.44611  
2 28.499  
2 18.1  
0 Infinity  
0 Infinity  
5 Infinity  
0 Infinity

**Report Generated on: 5/26/2005, 4:11:30 PM**  
**Report Generated by devans ( Doug Evans )**  
**Decision Management Tool Version 4.0.0.37**  
UPR-200-E-6 TanksUPR\_B-BX-BY.txt case04.stp  
**Major Assumptions Used:**  
Dilution factor for WMA-B-BX-BY: 40  
Compliance Monitoring Start Year :2001



0 Infinity  
0 Infinity  
5 Infinity  
5 Infinity  
5 Infinity  
0 Infinity  
0 Infinity  
0 Infinity  
5 Infinity  
2 Infinity  
0 Infinity  
0 Infinity  
0.6 Infinity  
5 Infinity

<b>CAS Number</b>	<b>Analyte Name</b>	<b>Concentration</b> pCi/L (Rad) or mg/L (Non-rad)	<b>Peak Year</b>	<b>Kd</b>
3H	Tritium	4.99E-04	2071	0
14C	Carbon-14	1.40E-03	2192	0
59Ni	Nickel-59	0		48
63Ni	Nickel-63	0		48
60Co	Cobalt-60	2.74E-14	2073	0.1
79Se	Selenium-79	0		3.1
90Sr	Strontium-90 + D	0		16.1
93mNb	Niobium-93m	0		100
99Tc	Technetium-99	5.11E-02	5701	0
106Ru	Ruthenium-106	0		1
113mCd	Cadmium-113m	0		1
126Sn	Tin-126	0		1
125Sb	Antimony-125	0		1
129I	Iodine-129	1.77E-07	12032	0.2
134Cs	Cesium-134	0		25
137Cs	Cesium-137 + Daughters	0		25
151Sm	Samarium-151	0		1
152Eu	Europium-152	0		1
154Eu	Europium-154	0		1
155Eu	Europium-155	0		1
226Ra	Radium-226 + D	0		1
228Ra	Radium-228 + D	0		1
227Ac	Actinium-227 + D	0		67
229Th	Thorium-229 + D	0		3
232Th	Thorium-232	0		3
231Pa	Protactinium-231	0		550
232U	Uranium-232	0		0.6
233U	Uranium-233	0		0.6
234U	Uranium-234	0		0.6
235U	Uranium-235 + D	0		0.6
236U	Uranium-236	0		0.6
238U	Uranium-238 + D	0		0.6
237Np	Neptunium-237 + D	0		2
238Pu	Plutonium-238	0		3
239Pu	Plutonium-239	0		3
240Pu	Plutonium-240	0		3
241Pu	Plutonium-241 + D	0		3
242Pu	Plutonium-242	0		3
241Am	Americium-241	0		3
243Am	Americium-243 + D	0		3
242Cm	Curium-242	0		3
243Cm	Curium-243	0		3
244Cm	Curium-244	0		3
7664-41-7	Ammonia -- (a)	1.04E-08	5711	0.00093
7440-69-9	Bismuth	2.97E-07	5711	
7440-70-2	Calcium	0		4
16887-00-6	Chloride	5.72E-07	5711	

18540-29-9	Chromium	8.24E-07	5711	0
7439-89-6	Iron	0		25
7439-97-6	Mercury	0		5.2
7440-02-0	Nickel	0		48
14797-55-8	Nitrate	5.08E-05	5711	0
14797-65-0	Nitrite	4.73E-06	5711	0
14265-44-2	Phosphate	3.00E-05	5711	
7440-21-3	Silicon	0		30
7440-22-4	Silver	0		2.7
7440-23-5	Sodium	1.96E-04	5711	
14808-79-8	Sulfate	5.33E-05	5711	
7440-61-1	Uranium	0		0.6

**Kd Bin Half-Life**

Years  
0 12.33  
0 5730  
5 74999  
5 100.1  
0.1 5.2713  
2 805000  
5 28.149  
5 16.13  
0 211097  
1 1.01736  
1 14.1  
1 246000  
1 2.7299  
0.2 15700000  
5 2.0619  
5 29.999  
1 89.997  
1 13.33  
1 8.5919  
1 4.68  
1 1600  
1 5.7498  
5 21.769  
2 7340  
2 1405000000  
5 32759  
0.6 69.799  
0.6 159198  
0.6 245694  
0.6 703700000  
0.6 23420000  
0.6 4468000000  
2 2140000  
2 87.697  
2 24110  
2 6563  
2 14.35  
2 373507  
2 432.7  
2 7370  
2 0.44611  
2 28.499  
2 18.1  
0 Infinity  
0 Infinity  
5 Infinity  
0 Infinity

**Report Generated on: 5/26/2005, 4:11:55 PM**  
**Report Generated by devans ( Doug Evans )**  
**Decision Management Tool Version 4.0.0.37**  
UPR-200-E-73 TanksUPR\_B-BX-BY.txt case04.stp  
**Major Assumptions Used:**  
Dilution factor for WMA-B-BX-BY: 40  
Compliance Monitoring Start Year :2001

0 Infinity  
5 Infinity  
5 Infinity  
5 Infinity  
0 Infinity  
0 Infinity  
0 Infinity  
5 Infinity  
2 Infinity  
0 Infinity  
0 Infinity  
0.6 Infinity

CAS Number	Analyte Name	Concentration pCi/L (Rad) or mg/L (Non-rad)	Peak Year	Kd	Kd Bin
3H	Tritium	5.07E-09	2071	0	0
14C	Carbon-14	1.66E-08	2192	0	0
59Ni	Nickel-59	0		48	5
63Ni	Nickel-63	0		48	5
60Co	Cobalt-60	0		0.1	0.1
79Se	Selenium-79	0		3.1	2
90Sr	Strontium-90 + D	0		16.1	5
93mNb	Niobium-93m	0		100	5
99Tc	Technetium-99	4.79E-07	5701	0	0
106Ru	Ruthenium-106	0		1	1
113mCd	Cadmium-113m	0		1	1
126Sn	Tin-126	0		1	1
125Sb	Antimony-125	0		1	1
129I	Iodine-129	1.46E-12	12032	0.2	0.2
134Cs	Cesium-134	0		25	5
137Cs	Cesium-137 + Daughters	0		25	5
151Sm	Samarium-151	0		1	1
152Eu	Europium-152	0		1	1
154Eu	Europium-154	0		1	1
155Eu	Europium-155	0		1	1
226Ra	Radium-226 + D	0		1	1
228Ra	Radium-228 + D	0		1	1
227Ac	Actinium-227 + D	0		67	5
229Th	Thorium-229 + D	0		3	2
232Th	Thorium-232	0		3	2
231Pa	Protactinium-231	0		550	5
232U	Uranium-232	0		0.6	0.6
233U	Uranium-233	0		0.6	0.6
234U	Uranium-234	0		0.6	0.6
235U	Uranium-235 + D	0		0.6	0.6
236U	Uranium-236	0		0.6	0.6
238U	Uranium-238 + D	0		0.6	0.6
237Np	Neptunium-237 + D	0		2	2
238Pu	Plutonium-238	0		3	2
239Pu	Plutonium-239	0		3	2
240Pu	Plutonium-240	0		3	2
241Pu	Plutonium-241 + D	0		3	2
242Pu	Plutonium-242	0		3	2
241Am	Americium-241	0		3	2
243Am	Americium-243 + D	0		3	2
242Cm	Curium-242	0		3	2
243Cm	Curium-243	0		3	2
244Cm	Curium-244	0		3	2
7440-70-2	Calcium	0		4	5
16887-00-6	Chloride	1.12E-07	5711		0
18540-29-9	Chromium	4.13E-07	5711	0	0
7439-89-6	Iron	0		25	5

7440-02-0	Nickel	0		48	5
14797-55-8	Nitrate	9.64E-06	5711	0	0
14797-65-0	Nitrite	1.09E-06	5711	0	0
7440-23-5	Sodium	4.45E-06	5711		0
14808-79-8	Sulfate	3.82E-07	5711		0
7440-61-1	Uranium	0		0.6	0.6

## Half-Life

Years

Report Generated on: 5/26/2005, 4:12:54 PM

Report Generated by devans ( Doug Evans )

Decision Management Tool Version 4.0.0.37

12.33  
5730

UPR-200-E-74

TanksUPR\_B-BX-BY.txt case04.stp

74999

100.1

5.2713 **Major Assumptions Used:**

805000 Dilution factor for WMA-B-BX-BY: 40

28.149 Compliance Monitoring Start Year :2001

16.13

211097

1.01736

14.1

246000

2.7299

15700000

2.0619

29.999

89.997

13.33

8.5919

4.68

1600

5.7498

21.769

7340

1405000000

32759

69.799

159198

245694

703700000

23420000

4468000000

2140000

87.697

24110

6563

14.35

373507

432.7

7370

0.44611

28.499

18.1

Infinity

Infinity

Infinity

Infinity



Infinity  
Infinity  
Infinity  
Infinity  
Infinity  
Infinity

<b>CAS Number</b>	<b>Analyte Name</b>	<b>Concentration</b> pCi/L (Rad) or mg/L (Non-rad)	<b>Peak Year</b>	<b>Kd</b>
3H	Tritium	2.60E-03	2071	0
14C	Carbon-14	5.86E-03	2192	0
59Ni	Nickel-59	0		48
63Ni	Nickel-63	0		48
60Co	Cobalt-60	4.02E-13	2073	0.1
79Se	Selenium-79	0		3.1
90Sr	Strontium-90 + D	0		16.1
93mNb	Niobium-93m	0		100
99Tc	Technetium-99	1.98E-02	5701	0
106Ru	Ruthenium-106	0		1
113mCd	Cadmium-113m	0		1
126Sn	Tin-126	0		1
125Sb	Antimony-125	0		1
129I	Iodine-129	5.28E-07	12032	0.2
134Cs	Cesium-134	0		25
137Cs	Cesium-137 + Daughters	0		25
151Sm	Samarium-151	0		1
152Eu	Europium-152	0		1
154Eu	Europium-154	0		1
155Eu	Europium-155	0		1
226Ra	Radium-226 + D	0		1
228Ra	Radium-228 + D	0		1
227Ac	Actinium-227 + D	0		67
229Th	Thorium-229 + D	0		3
232Th	Thorium-232	0		3
231Pa	Protactinium-231	0		550
232U	Uranium-232	0		0.6
233U	Uranium-233	0		0.6
234U	Uranium-234	0		0.6
235U	Uranium-235 + D	0		0.6
236U	Uranium-236	0		0.6
238U	Uranium-238 + D	0		0.6
237Np	Neptunium-237 + D	0		2
238Pu	Plutonium-238	0		3
239Pu	Plutonium-239	0		3
240Pu	Plutonium-240	0		3
241Pu	Plutonium-241 + D	0		3
242Pu	Plutonium-242	0		3
241Am	Americium-241	0		3
243Am	Americium-243 + D	0		3
242Cm	Curium-242	0		3
243Cm	Curium-243	0		3
244Cm	Curium-244	0		3
7664-41-7	Ammonia -- (a)	1.43E-04	5711	0.00093
7440-69-9	Bismuth	9.46E-06	5711	
7440-70-2	Calcium	0		4
16887-00-6	Chloride	1.63E-04	5711	

18540-29-9	Chromium	3.56E-05	5711	0
16984-48-8	Fluoride	3.72E-04	5711	
7439-89-6	Iron	0		25
7439-97-6	Mercury	0		5.2
7440-02-0	Nickel	0		48
14797-55-8	Nitrate	1.06E-02	5711	0
14797-65-0	Nitrite	2.30E-04	5711	0
14265-44-2	Phosphate	6.65E-04	5711	
7440-21-3	Silicon	0		30
7440-22-4	Silver	0		2.7
7440-23-5	Sodium	5.58E-03	5711	
14808-79-8	Sulfate	7.03E-04	5711	
7440-61-1	Uranium	0		0.6
7440-67-7	Zirconium	0		500

**Kd Bin Half-Life**

Years  
0 12.33  
0 5730  
5 74999  
5 100.1  
0.1 5.2713  
2 805000  
5 28.149  
5 16.13  
0 211097  
1 1.01736  
1 14.1  
1 246000  
1 2.7299  
0.2 15700000  
5 2.0619  
5 29.999  
1 89.997  
1 13.33  
1 8.5919  
1 4.68  
1 1600  
1 5.7498  
5 21.769  
2 7340  
2 1405000000  
5 32759  
0.6 69.799  
0.6 159198  
0.6 245694  
0.6 703700000  
0.6 23420000  
0.6 4468000000  
2 2140000  
2 87.697  
2 24110  
2 6563  
2 14.35  
2 373507  
2 432.7  
2 7370  
2 0.44611  
2 28.499  
2 18.1  
0 Infinity  
0 Infinity  
5 Infinity  
0 Infinity

**Report Generated on: 5/26/2005, 4:13:10 PM**  
**Report Generated by devans ( Doug Evans )**  
**Decision Management Tool Version 4.0.0.37**  
UPR-200-E-75 TanksUPR\_B-BX-BY.txt case04.stp  
**Major Assumptions Used:**  
Dilution factor for WMA-B-BX-BY: 40  
Compliance Monitoring Start Year :2001

0 Infinity  
0 Infinity  
5 Infinity  
5 Infinity  
5 Infinity  
0 Infinity  
0 Infinity  
0 Infinity  
5 Infinity  
2 Infinity  
0 Infinity  
0 Infinity  
0.6 Infinity  
5 Infinity

CAS Number	Analyte Name	Concentration pCi/L (Rad) or mg/L (Non-rad)	Peak Year	Kd
3H	Tritium	2.13E-03	2071	0
14C	Carbon-14	6.00E-03	2192	0
59Ni	Nickel-59	0		48
63Ni	Nickel-63	0		48
60Co	Cobalt-60	1.17E-13	2073	0.1
79Se	Selenium-79	0		3.1
90Sr	Strontium-90 + D	0		16.1
93mNb	Niobium-93m	0		100
99Tc	Technetium-99	2.17E-01	5701	0
106Ru	Ruthenium-106	0		1
113mCd	Cadmium-113m	0		1
126Sn	Tin-126	0		1
125Sb	Antimony-125	0		1
129I	Iodine-129	7.59E-07	12032	0.2
134Cs	Cesium-134	0		25
137Cs	Cesium-137 + Daughters	0		25
151Sm	Samarium-151	0		1
152Eu	Europium-152	0		1
154Eu	Europium-154	0		1
155Eu	Europium-155	0		1
226Ra	Radium-226 + D	0		1
228Ra	Radium-228 + D	0		1
227Ac	Actinium-227 + D	0		67
229Th	Thorium-229 + D	0		3
232Th	Thorium-232	0		3
231Pa	Protactinium-231	0		550
232U	Uranium-232	0		0.6
233U	Uranium-233	0		0.6
234U	Uranium-234	0		0.6
235U	Uranium-235 + D	0		0.6
236U	Uranium-236	0		0.6
238U	Uranium-238 + D	0		0.6
237Np	Neptunium-237 + D	0		2
238Pu	Plutonium-238	0		3
239Pu	Plutonium-239	0		3
240Pu	Plutonium-240	0		3
241Pu	Plutonium-241 + D	0		3
242Pu	Plutonium-242	0		3
241Am	Americium-241	0		3
243Am	Americium-243 + D	0		3
242Cm	Curium-242	0		3
243Cm	Curium-243	0		3
244Cm	Curium-244	0		3
7664-41-7	Ammonia -- (a)	4.46E-08	5711	0.00093
7440-69-9	Bismuth	1.27E-06	5711	
7440-70-2	Calcium	0		4
16887-00-6	Chloride	2.45E-06	5711	

18540-29-9	Chromium	3.54E-06	5711	0
7439-89-6	Iron	0		25
7439-97-6	Mercury	0		5.2
7440-02-0	Nickel	0		48
14797-55-8	Nitrate	2.17E-04	5711	0
14797-65-0	Nitrite	2.02E-05	5711	0
14265-44-2	Phosphate	1.28E-04	5711	
7440-21-3	Silicon	0		30
7440-22-4	Silver	0		2.7
7440-23-5	Sodium	8.41E-04	5711	
14808-79-8	Sulfate	2.28E-04	5711	
7440-61-1	Uranium	0		0.6

**Kd Bin Half-Life**

	Years
0	12.33
0	5730
5	74999
5	100.1
0.1	5.2713
2	805000
5	28.149
5	16.13
0	211097
1	1.01736
1	14.1
1	246000
1	2.7299
0.2	15700000
5	2.0619
5	29.999
1	89.997
1	13.33
1	8.5919
1	4.68
1	1600
1	5.7498
5	21.769
2	7340
2	14050000000
5	32759
0.6	69.799
0.6	159198
0.6	245694
0.6	703700000
0.6	23420000
0.6	4468000000
2	2140000
2	87.697
2	24110
2	6563
2	14.35
2	373507
2	432.7
2	7370
2	0.44611
2	28.499
2	18.1
0	Infinity
0	Infinity
5	Infinity
0	Infinity

**Report Generated on: 5/26/2005, 4:13:24 PM**  
**Report Generated by devans ( Doug Evans )**  
**Decision Management Tool Version 4.0.0.37**  
UPR-200-E-108 TanksUPR\_B-BX-BY.txt case04.stp  
**Major Assumptions Used:**  
Dilution factor for WMA-B-BX-BY: 40  
Compliance Monitoring Start Year :2001



0 Infinity  
5 Infinity  
5 Infinity  
5 Infinity  
0 Infinity  
0 Infinity  
0 Infinity  
5 Infinity  
2 Infinity  
0 Infinity  
0 Infinity  
0.6 Infinity

<b>CAS Number</b>	<b>Analyte Name</b>	<b>Concentration</b> pCi/L (Rad) or mg/L (Non-rad)	<b>Peak Year</b>	<b>Kd</b>
3H	Tritium	3.86E-04	2071	0
14C	Carbon-14	2.54E-03	2192	0
59Ni	Nickel-59	0		48
63Ni	Nickel-63	0		48
60Co	Cobalt-60	3.44E-14	2073	0.1
79Se	Selenium-79	0		3.1
90Sr	Strontium-90 + D	0		16.1
93mNb	Niobium-93m	0		100
99Tc	Technetium-99	5.39E-02	5701	0
106Ru	Ruthenium-106	0		1
113mCd	Cadmium-113m	0		1
126Sn	Tin-126	0		1
125Sb	Antimony-125	0		1
129I	Iodine-129	2.11E-07	12032	0.2
134Cs	Cesium-134	0		25
137Cs	Cesium-137 + Daughters	0		25
151Sm	Samarium-151	0		1
152Eu	Europium-152	0		1
154Eu	Europium-154	0		1
155Eu	Europium-155	0		1
226Ra	Radium-226 + D	0		1
228Ra	Radium-228 + D	0		1
227Ac	Actinium-227 + D	0		67
229Th	Thorium-229 + D	0		3
232Th	Thorium-232	0		3
231Pa	Protactinium-231	0		550
232U	Uranium-232	0		0.6
233U	Uranium-233	0		0.6
234U	Uranium-234	0		0.6
235U	Uranium-235 + D	0		0.6
236U	Uranium-236	0		0.6
238U	Uranium-238 + D	0		0.6
237Np	Neptunium-237 + D	0		2
238Pu	Plutonium-238	0		3
239Pu	Plutonium-239	0		3
240Pu	Plutonium-240	0		3
241Pu	Plutonium-241 + D	0		3
242Pu	Plutonium-242	0		3
241Am	Americium-241	0		3
243Am	Americium-243 + D	0		3
242Cm	Curium-242	0		3
243Cm	Curium-243	0		3
244Cm	Curium-244	0		3
7664-41-7	Ammonia -- (a)	9.95E-08	5711	0.00093
7440-69-9	Bismuth	5.49E-07	5711	
7440-70-2	Calcium	0		4
16887-00-6	Chloride	4.93E-05	5711	

18540-29-9	Chromium	2.43E-06	5711	0
7439-89-6	Iron	0		25
7439-97-6	Mercury	0		5.2
7440-02-0	Nickel	0		48
14797-55-8	Nitrate	2.66E-03	5711	0
14797-65-0	Nitrite	1.07E-04	5711	0
14265-44-2	Phosphate	9.63E-05	5711	
7440-22-4	Silver	0		2.7
7440-23-5	Sodium	1.33E-03	5711	
14808-79-8	Sulfate	1.71E-04	5711	
7440-61-1	Uranium	0		0.6
71-36-3	n-Butyl alcohol (1-butanol)	9.95E-09	5711	0.002076

**Kd Bin Half-Life**

Years  
0 12.33  
0 5730  
5 74999  
5 100.1  
0.1 5.2713  
2 805000  
5 28.149  
5 16.13  
0 211097  
1 1.01736  
1 14.1  
1 246000  
1 2.7299  
0.2 15700000  
5 2.0619  
5 29.999  
1 89.997  
1 13.33  
1 8.5919  
1 4.68  
1 1600  
1 5.7498  
5 21.769  
2 7340  
2 1405000000  
5 32759  
0.6 69.799  
0.6 159198  
0.6 245694  
0.6 703700000  
0.6 23420000  
0.6 4468000000  
2 2140000  
2 87.697  
2 24110  
2 6563  
2 14.35  
2 373507  
2 432.7  
2 7370  
2 0.44611  
2 28.499  
2 18.1  
0 Infinity  
0 Infinity  
5 Infinity  
0 Infinity

**Report Generated on: 5/26/2005, 4:13:37 PM**  
**Report Generated by devans ( Doug Evans )**  
**Decision Management Tool Version 4.0.0.37**  
UPR-200-E-109 TanksUPR\_B-BX-BY.txt case04.stp  
**Major Assumptions Used:**  
Dilution factor for WMA-B-BX-BY: 40  
Compliance Monitoring Start Year :2001

0 Infinity  
5 Infinity  
5 Infinity  
5 Infinity  
0 Infinity  
0 Infinity  
0 Infinity  
2 Infinity  
0 Infinity  
0 Infinity  
0.6 Infinity  
0 Infinity

CAS Number	Analyte Name	Concentration pCi/L (Rad) or mg/L (Non-rad)	Peak Year	Kd
3H	Tritium	4.46E-02	2071	0
14C	Carbon-14	1.46E+00	2192	0
59Ni	Nickel-59	0		48
63Ni	Nickel-63	0		48
60Co	Cobalt-60	1.60E-10	2073	0.1
79Se	Selenium-79	0		3.1
90Sr	Strontium-90 + D	0		16.1
93mNb	Niobium-93m	0		100
99Tc	Technetium-99	7.48E+01	5701	0
106Ru	Ruthenium-106	0		1
113mCd	Cadmium-113m	0		1
126Sn	Tin-126	0		1
125Sb	Antimony-125	0		1
129I	Iodine-129	1.35E-04	12032	0.2
134Cs	Cesium-134	0		25
137Cs	Cesium-137 + Daughters	0		25
151Sm	Samarium-151	0		1
152Eu	Europium-152	0		1
154Eu	Europium-154	0		1
155Eu	Europium-155	0		1
226Ra	Radium-226 + D	0		1
228Ra	Radium-228 + D	0		1
227Ac	Actinium-227 + D	0		67
229Th	Thorium-229 + D	0		3
232Th	Thorium-232	0		3
231Pa	Protactinium-231	0		550
232U	Uranium-232	0		0.6
233U	Uranium-233	0		0.6
234U	Uranium-234	0		0.6
235U	Uranium-235 + D	0		0.6
236U	Uranium-236	0		0.6
238U	Uranium-238 + D	0		0.6
237Np	Neptunium-237 + D	0		2
238Pu	Plutonium-238	0		3
239Pu	Plutonium-239	0		3
240Pu	Plutonium-240	0		3
241Pu	Plutonium-241 + D	0		3
242Pu	Plutonium-242	0		3
241Am	Americium-241	0		3
243Am	Americium-243 + D	0		3
242Cm	Curium-242	0		3
243Cm	Curium-243	0		3
244Cm	Curium-244	0		3
7429-90-5	Aluminum	0		1
7664-41-7	Ammonia -- (a)	2.21E-04	5711	0.00093
7440-69-9	Bismuth	5.59E-07	5711	
7440-70-2	Calcium	0		4

16887-00-6	Chloride	1.32E-03	5711	
18540-29-9	Chromium	8.66E-04	5711	0
16984-48-8	Fluoride	1.93E-05	5711	
7439-89-6	Iron	0		25
7439-92-1	Lead	0		5.2
7439-96-5	Manganese	0		1
7439-97-6	Mercury	0		5.2
7440-02-0	Nickel	0		48
14797-55-8	Nitrate	4.09E-02	5711	0
14797-65-0	Nitrite	2.10E-02	5711	0
14265-44-2	Phosphate	3.23E-04	5711	
7440-21-3	Silicon	0		30
7440-22-4	Silver	0		2.7
7440-23-5	Sodium	5.05E-02	5711	
14808-79-8	Sulfate	4.76E-03	5711	
7440-61-1	Uranium	0		0.6
7440-67-7	Zirconium	0		500

**Kd Bin Half-Life**

Years  
0 12.33  
0 5730  
5 74999  
5 100.1  
0.1 5.2713  
2 805000  
5 28.149  
5 16.13  
0 211097  
1 1.01736  
1 14.1  
1 246000  
1 2.7299  
0.2 15700000  
5 2.0619  
5 29.999  
1 89.997  
1 13.33  
1 8.5919  
1 4.68  
1 1600  
1 5.7498  
5 21.769  
2 7340  
2 1405000000  
5 32759  
0.6 69.799  
0.6 159198  
0.6 245694  
0.6 703700000  
0.6 23420000  
0.6 4468000000  
2 2140000  
2 87.697  
2 24110  
2 6563  
2 14.35  
2 373507  
2 432.7  
2 7370  
2 0.44611  
2 28.499  
2 18.1  
1 Infinity  
0 Infinity  
0 Infinity  
5 Infinity

**Report Generated on: 5/26/2005, 4:13:51 PM**  
**Report Generated by devans ( Doug Evans )**  
**Decision Management Tool Version 4.0.0.37**  
UPR-200-E-38 TanksUPR\_B-BX-BY.txt case04.stp  
**Major Assumptions Used:**  
Dilution factor for WMA-B-BX-BY: 40  
Compliance Monitoring Start Year :2001



0 Infinity  
0 Infinity  
0 Infinity  
5 Infinity  
5 Infinity  
1 Infinity  
5 Infinity  
5 Infinity  
0 Infinity  
0 Infinity  
0 Infinity  
5 Infinity  
2 Infinity  
0 Infinity  
0 Infinity  
0.6 Infinity  
5 Infinity

<b>CAS Number</b>	<b>Analyte Name</b>	<b>Concentration</b> pCi/L (Rad) or mg/L (Non-rad)	<b>Peak Year</b>	<b>Kd</b>
3H	Tritium	5.89E-02	2071	0
14C	Carbon-14	1.33E-01	2192	0
59Ni	Nickel-59	0		48
63Ni	Nickel-63	0		48
60Co	Cobalt-60	9.07E-12	2073	0.1
79Se	Selenium-79	0		3.1
90Sr	Strontium-90 + D	0		16.1
93mNb	Niobium-93m	0		100
99Tc	Technetium-99	4.48E-01	5701	0
106Ru	Ruthenium-106	0		1
113mCd	Cadmium-113m	0		1
126Sn	Tin-126	0		1
125Sb	Antimony-125	0		1
129I	Iodine-129	1.20E-05	12032	0.2
134Cs	Cesium-134	0		25
137Cs	Cesium-137 + Daughters	0		25
151Sm	Samarium-151	0		1
152Eu	Europium-152	0		1
154Eu	Europium-154	0		1
155Eu	Europium-155	0		1
226Ra	Radium-226 + D	0		1
228Ra	Radium-228 + D	0		1
227Ac	Actinium-227 + D	0		67
229Th	Thorium-229 + D	0		3
232Th	Thorium-232	0		3
231Pa	Protactinium-231	0		550
232U	Uranium-232	0		0.6
233U	Uranium-233	0		0.6
234U	Uranium-234	0		0.6
235U	Uranium-235 + D	0		0.6
236U	Uranium-236	0		0.6
238U	Uranium-238 + D	0		0.6
237Np	Neptunium-237 + D	0		2
238Pu	Plutonium-238	0		3
239Pu	Plutonium-239	0		3
240Pu	Plutonium-240	0		3
241Pu	Plutonium-241 + D	0		3
242Pu	Plutonium-242	0		3
241Am	Americium-241	0		3
243Am	Americium-243 + D	0		3
242Cm	Curium-242	0		3
243Cm	Curium-243	0		3
244Cm	Curium-244	0		3
7664-41-7	Ammonia -- (a)	3.23E-03	5711	0.00093
7440-69-9	Bismuth	2.14E-04	5711	
7440-70-2	Calcium	0		4
16887-00-6	Chloride	3.68E-03	5711	

18540-29-9	Chromium	8.04E-04	5711	0
16984-48-8	Fluoride	8.40E-03	5711	
7439-89-6	Iron	0		25
7439-97-6	Mercury	0		5.2
7440-02-0	Nickel	0		48
14797-55-8	Nitrate	2.40E-01	5711	0
14797-65-0	Nitrite	5.20E-03	5711	0
14265-44-2	Phosphate	1.50E-02	5711	
7440-21-3	Silicon	0		30
7440-22-4	Silver	0		2.7
7440-23-5	Sodium	1.26E-01	5711	
14808-79-8	Sulfate	1.59E-02	5711	
7440-61-1	Uranium	0		0.6
7440-67-7	Zirconium	0		500

**Kd Bin Half-Life**

Years  
0 12.33  
0 5730  
5 74999  
5 100.1  
0.1 5.2713  
2 805000  
5 28.149  
5 16.13  
0 211097  
1 1.01736  
1 14.1  
1 246000  
1 2.7299  
0.2 15700000  
5 2.0619  
5 29.999  
1 89.997  
1 13.33  
1 8.5919  
1 4.68  
1 1600  
1 5.7498  
5 21.769  
2 7340  
2 1405000000  
5 32759  
0.6 69.799  
0.6 159198  
0.6 245694  
0.6 703700000  
0.6 23420000  
0.6 4468000000  
2 2140000  
2 87.697  
2 24110  
2 6563  
2 14.35  
2 373507  
2 432.7  
2 7370  
2 0.44611  
2 28.499  
2 18.1  
0 Infinity  
0 Infinity  
5 Infinity  
0 Infinity

**Report Generated on: 5/26/2005, 4:14:04 PM**  
**Report Generated by devans ( Doug Evans )**  
**Decision Management Tool Version 4.0.0.37**  
UPR-200-E-105 TanksUPR\_B-BX-BY.txt case04.stp  
**Major Assumptions Used:**  
Dilution factor for WMA-B-BX-BY: 40  
Compliance Monitoring Start Year :2001

0 Infinity  
0 Infinity  
5 Infinity  
5 Infinity  
5 Infinity  
0 Infinity  
0 Infinity  
0 Infinity  
5 Infinity  
2 Infinity  
0 Infinity  
0 Infinity  
0.6 Infinity  
5 Infinity

CAS Number	Analyte Name	Concentration pCi/L (Rad) or mg/L (Non-rad)	Peak Year	Kd
3H	Tritium	1.31E-02	2071	0
14C	Carbon-14	2.93E-02	2192	0
59Ni	Nickel-59	0		48
63Ni	Nickel-63	0		48
60Co	Cobalt-60	2.01E-12	2073	0.1
79Se	Selenium-79	0		3.1
90Sr	Strontium-90 + D	0		16.1
93mNb	Niobium-93m	0		100
99Tc	Technetium-99	9.91E-02	5701	0
106Ru	Ruthenium-106	0		1
113mCd	Cadmium-113m	0		1
126Sn	Tin-126	0		1
125Sb	Antimony-125	0		1
129I	Iodine-129	2.64E-06	12032	0.2
134Cs	Cesium-134	0		25
137Cs	Cesium-137 + Daughters	0		25
151Sm	Samarium-151	0		1
152Eu	Europium-152	0		1
154Eu	Europium-154	0		1
155Eu	Europium-155	0		1
226Ra	Radium-226 + D	0		1
228Ra	Radium-228 + D	0		1
227Ac	Actinium-227 + D	0		67
229Th	Thorium-229 + D	0		3
232Th	Thorium-232	0		3
231Pa	Protactinium-231	0		550
232U	Uranium-232	0		0.6
233U	Uranium-233	0		0.6
234U	Uranium-234	0		0.6
235U	Uranium-235 + D	0		0.6
236U	Uranium-236	0		0.6
238U	Uranium-238 + D	0		0.6
237Np	Neptunium-237 + D	0		2
238Pu	Plutonium-238	0		3
239Pu	Plutonium-239	0		3
240Pu	Plutonium-240	0		3
241Pu	Plutonium-241 + D	0		3
242Pu	Plutonium-242	0		3
241Am	Americium-241	0		3
243Am	Americium-243 + D	0		3
242Cm	Curium-242	0		3
243Cm	Curium-243	0		3
244Cm	Curium-244	0		3
7664-41-7	Ammonia -- (a)	7.16E-04	5711	0.00093
7440-69-9	Bismuth	4.72E-05	5711	
7440-70-2	Calcium	0		4
16887-00-6	Chloride	8.14E-04	5711	

18540-29-9	Chromium	1.78E-04	5711	0
16984-48-8	Fluoride	1.86E-03	5711	
7439-89-6	Iron	0		25
7439-97-6	Mercury	0		5.2
7440-02-0	Nickel	0		48
14797-55-8	Nitrate	5.32E-02	5711	0
14797-65-0	Nitrite	1.15E-03	5711	0
14265-44-2	Phosphate	3.33E-03	5711	
7440-21-3	Silicon	0		30
7440-22-4	Silver	0		2.7
7440-23-5	Sodium	2.80E-02	5711	
14808-79-8	Sulfate	3.52E-03	5711	
7440-61-1	Uranium	0		0.6
7440-67-7	Zirconium	0		500

**Kd Bin Half-Life**

Years  
0 12.33  
0 5730  
5 74999  
5 100.1  
0.1 5.2713  
2 805000  
5 28.149  
5 16.13  
0 211097  
1 1.01736  
1 14.1  
1 246000  
1 2.7299  
0.2 15700000  
5 2.0619  
5 29.999  
1 89.997  
1 13.33  
1 8.5919  
1 4.68  
1 1600  
1 5.7498  
5 21.769  
2 7340  
2 1405000000  
5 32759  
0.6 69.799  
0.6 159198  
0.6 245694  
0.6 703700000  
0.6 23420000  
0.6 4468000000  
2 2140000  
2 87.697  
2 24110  
2 6563  
2 14.35  
2 373507  
2 432.7  
2 7370  
2 0.44611  
2 28.499  
2 18.1  
0 Infinity  
0 Infinity  
5 Infinity  
0 Infinity

**Report Generated on: 5/26/2005, 4:14:17 PM**  
**Report Generated by devans ( Doug Evans )**  
**Decision Management Tool Version 4.0.0.37**  
UPR-200-E-110 TanksUPR\_B-BX-BY.txt case04.stp  
**Major Assumptions Used:**  
Dilution factor for WMA-B-BX-BY: 40  
Compliance Monitoring Start Year :2001



0 Infinity  
0 Infinity  
5 Infinity  
5 Infinity  
5 Infinity  
0 Infinity  
0 Infinity  
0 Infinity  
5 Infinity  
2 Infinity  
0 Infinity  
0 Infinity  
0.6 Infinity  
5 Infinity

<b>CAS Number</b>	<b>Analyte Name</b>	<b>Concentration</b> pCi/L (Rad) or mg/L (Non-rad)	<b>Peak Year</b>	<b>Kd</b>
3H	Tritium	1.05E+03	2044	0
14C	Carbon-14	1.48E+02	2051	0
59Ni	Nickel-59	0.00E+00		48
63Ni	Nickel-63	0.00E+00		48
60Co	Cobalt-60	2.65E-02	2052	0.1
79Se	Selenium-79	0.00E+00		3.1
90Sr	Strontium-90 + D	0.00E+00		16.1
93mNb	Niobium-93m	0.00E+00		100
99Tc	Technetium-99	1.67E+03	2051	0
106Ru	Ruthenium-106	0.00E+00		1
113mCd	Cadmium-113m	0.00E+00		1
126Sn	Tin-126	3.25E-05	12032	1
125Sb	Antimony-125	0.00E+00		1
129I	Iodine-129	9.82E-02	9621	0.2
134Cs	Cesium-134	0.00E+00		25
137Cs	Cesium-137 + Daughters	0.00E+00		25
151Sm	Samarium-151	7.61E-13	3961	1
152Eu	Europium-152	0.00E+00		1
154Eu	Europium-154	0.00E+00		1
155Eu	Europium-155	0.00E+00		1
226Ra	Radium-226 + D	1.47E-11	12032	1
228Ra	Radium-228 + D	0.00E+00		1
227Ac	Actinium-227 + D	0.00E+00		67
229Th	Thorium-229 + D	0.00E+00		3
232Th	Thorium-232	0.00E+00		3
231Pa	Protactinium-231	0.00E+00		550
232U	Uranium-232	2.94E-10	2175	0.6
233U	Uranium-233	1.10E-03	12032	0.6
234U	Uranium-234	2.16E-04	12032	0.6
235U	Uranium-235 + D	8.92E-06	12032	0.6
236U	Uranium-236	5.34E-06	12032	0.6
238U	Uranium-238 + D	2.07E-04	12032	0.6
237Np	Neptunium-237 + D	0.00E+00		2
238Pu	Plutonium-238	0.00E+00		3
239Pu	Plutonium-239	0.00E+00		3
240Pu	Plutonium-240	0.00E+00		3
241Pu	Plutonium-241 + D	0.00E+00		3
242Pu	Plutonium-242	0.00E+00		3
241Am	Americium-241	0.00E+00		3
243Am	Americium-243 + D	0.00E+00		3
242Cm	Curium-242	0.00E+00		3
243Cm	Curium-243	0.00E+00		3
244Cm	Curium-244	0.00E+00		3
7429-90-5	Aluminum	2.51E-06	12032	1
7664-41-7	Ammonia -- (a)	1.26E-02	2051	0.00093
7440-69-9	Bismuth	5.52E-04	2051	
7440-70-2	Calcium	0.00E+00		4

16887-00-6	Chloride	8.13E-02	2051	
18540-29-9	Chromium	3.00E-02	2051	0
16984-48-8	Fluoride	2.16E-02	2051	
7439-89-6	Iron	0.00E+00		25
7439-91-0	Lanthanum	4.92E-10	2051	
7439-92-1	Lead	0.00E+00		5.2
7439-96-5	Manganese	1.51E-10	12032	1
7439-97-6	Mercury	0.00E+00		5.2
7440-02-0	Nickel	0.00E+00		48
14797-55-8	Nitrate	5.43E+00	2051	0
14797-65-0	Nitrite	2.02E+00	2051	0
14265-44-2	Phosphate	4.89E-02	2051	
7440-21-3	Silicon	0.00E+00		30
7440-22-4	Silver	0.00E+00		2.7
7440-23-5	Sodium	4.95E+00	2051	
14808-79-8	Sulfate	2.20E-01	2051	
7440-61-1	Uranium	6.20E-07	12032	0.6
7440-67-7	Zirconium	0.00E+00		500
71-36-3	n-Butyl alcohol (1-butanol)	6.28E-03	2051	0.002076

**Kd Bin Half-Life**

Years			
		<b>Report Generated on: 5/27/2005, 8:16:44 AM</b>	
		<b>Report Generated by devans ( Doug Evans )</b>	
		<b>Decision Management Tool Version 4.0.0.37</b>	
0	12.33		
0	5730	241-B-107	TanksPastLeaks_B-BX-BY.txt
5	74999		
5	100.1	241-B-110	TanksPastLeaks_B-BX-BY.txt
0.1	5.2713		
2	805000	UPR-200-E-6	TanksUPR_B-BX-BY.txt
5	28.149		
5	16.13	UPR-200-E-73	TanksUPR_B-BX-BY.txt
0	211097		
1	1.01736	UPR-200-E-74	TanksUPR_B-BX-BY.txt
1	14.1		
1	246000	UPR-200-E-75	TanksUPR_B-BX-BY.txt
1	2.7299		
0.2	15700000	UPR-200-E-109	TanksUPR_B-BX-BY.txt
5	2.0619		
5	29.999	UPR-200-E-38	TanksUPR_B-BX-BY.txt
1	89.997		
1	13.33		
1	8.5919	<b>Major Assumptions Used:</b>	
1	4.68	Dilution factor for WMA-B-BX-BY: 40	
1	1600	Compliance Monitoring Start Year :2001	
1	5.7498		
5	21.769		
2	7340		
2	1405000000	Verified by John Middleton 6/15/05	
5	32759		
0.6	69.799		
0.6	159198		
0.6	245694		
0.6	703700000		
0.6	23420000		
0.6	4468000000		
2	2140000		
2	87.697		
2	24110		
2	6563		
2	14.35		
2	373507		
2	432.7		
2	7370		
2	0.44611		
2	28.499		
2	18.1		
1	Infinity		
0	Infinity		
0	Infinity		
5	Infinity		

0 Infinity  
0 Infinity  
0 Infinity  
5 Infinity  
0 Infinity  
5 Infinity  
1 Infinity  
5 Infinity  
5 Infinity  
0 Infinity  
0 Infinity  
0 Infinity  
5 Infinity  
2 Infinity  
0 Infinity  
0 Infinity  
0.6 Infinity  
5 Infinity  
0 Infinity

case01.stp

case01.stp

case04.stp

case04.stp

case04.stp

case04.stp

case04.stp

case04.stp

CAS Number	Analyte Name	Concentration pCi/L (Rad) or mg/L (Non-rad)	Peak Year	Kd
3H	Tritium	7.17E+00	2044	0
14C	Carbon-14	1.05E+01	2051	0
59Ni	Nickel-59	0		48
63Ni	Nickel-63	0		48
60Co	Cobalt-60	3.38E-03	2052	0.1
79Se	Selenium-79	0		3.1
90Sr	Strontium-90 + D	0		16.1
93mNb	Niobium-93m	0		100
99Tc	Technetium-99	4.99E+02	2051	0
106Ru	Ruthenium-106	0		1
113mCd	Cadmium-113m	0		1
126Sn	Tin-126	1.00E-05	12032	1
125Sb	Antimony-125	0		1
129I	Iodine-129	1.03E-03	9621	0.2
134Cs	Cesium-134	0		25
137Cs	Cesium-137 + Daughters	0		25
151Sm	Samarium-151	1.15E-12	3961	1
152Eu	Europium-152	0		1
154Eu	Europium-154	0		1
155Eu	Europium-155	0		1
226Ra	Radium-226 + D	1.63E-12	12032	1
228Ra	Radium-228 + D	0		1
227Ac	Actinium-227 + D	0		67
229Th	Thorium-229 + D	0		3
232Th	Thorium-232	0		3
231Pa	Protactinium-231	0		550
232U	Uranium-232	2.53E-12	2175	0.6
233U	Uranium-233	9.13E-06	12032	0.6
234U	Uranium-234	6.16E-05	12032	0.6
235U	Uranium-235 + D	2.69E-06	12032	0.6
236U	Uranium-236	1.91E-06	12032	0.6
238U	Uranium-238 + D	5.93E-05	12032	0.6
237Np	Neptunium-237 + D	0		2
238Pu	Plutonium-238	0		3
239Pu	Plutonium-239	0		3
240Pu	Plutonium-240	0		3
241Pu	Plutonium-241 + D	0		3
242Pu	Plutonium-242	0		3
241Am	Americium-241	0		3
243Am	Americium-243 + D	0		3
242Cm	Curium-242	0		3
243Cm	Curium-243	0		3
244Cm	Curium-244	0		3
7429-90-5	Aluminum	3.26E-07	12032	1
7664-41-7	Ammonia -- (a)	1.06E-03	2051	0.00093
7440-69-9	Bismuth	2.12E-06	2051	
7440-70-2	Calcium	0		4

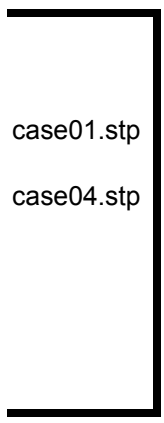
16887-00-6	Chloride	7.19E-02	2051	
18540-29-9	Chromium	3.03E-03	2051	0
16984-48-8	Fluoride	7.39E-05	2051	
7439-89-6	Iron	0		25
7439-91-0	Lanthanum	1.09E-13	2051	
7439-92-1	Lead	0		5.2
7439-96-5	Manganese	5.18E-11	12032	1
7439-97-6	Mercury	0		5.2
7440-02-0	Nickel	0		48
14797-55-8	Nitrate	1.46E+00	2051	0
14797-65-0	Nitrite	2.20E-01	2051	0
14265-44-2	Phosphate	2.72E-02	2051	
7440-21-3	Silicon	0		30
7440-22-4	Silver	0		2.7
7440-23-5	Sodium	2.49E+00	2051	
14808-79-8	Sulfate	1.33E-01	2051	
7440-61-1	Uranium	1.78E-07	12032	0.6
7440-67-7	Zirconium	0		500
71-36-3	n-Butyl alcohol (1-butanol)	5.07E-05	2051	0.002076



**Kd Bin Half-Life**

Years		
		<b>Report Generated on: 5/27/2005, 8:19:32 AM</b>
		<b>Report Generated by devans ( Doug Evans )</b>
		<b>Decision Management Tool Version 4.0.0.37</b>
0	12.33	
0	5730	241-BX-101 TanksPastLeaks_B-BX-BY.txt
5	74999	
5	100.1	UPR-200-E-108 TanksUPR_B-BX-BY.txt
0.1	5.2713	
2	805000	
5	28.149	<b>Major Assumptions Used:</b>
5	16.13	Dilution factor for WMA-B-BX-BY: 40
0	211097	Compliance Monitoring Start Year :2001
1	1.01736	
1	14.1	
1	246000	
1	2.7299	Verified by John Middleton 6/15/05
0.2	15700000	
5	2.0619	
5	29.999	
1	89.997	
1	13.33	
1	8.5919	
1	4.68	
1	1600	
1	5.7498	
5	21.769	
2	7340	
2	1405000000	
5	32759	
0.6	69.799	
0.6	159198	
0.6	245694	
0.6	703700000	
0.6	23420000	
0.6	4468000000	
2	2140000	
2	87.697	
2	24110	
2	6563	
2	14.35	
2	373507	
2	432.7	
2	7370	
2	0.44611	
2	28.499	
2	18.1	
1	Infinity	
0	Infinity	
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5	Infinity	

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0 Infinity  
0 Infinity  
0.6 Infinity  
5 Infinity  
0 Infinity



case01.stp

case04.stp

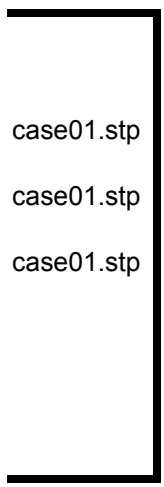
<b>CAS Number</b>	<b>Analyte Name</b>	<b>Concentration</b> pCi/L (Rad) or mg/L (Non-rad)	<b>Peak Year</b>	<b>Kd</b>
3H	Tritium	6.50E+02	2044	0
14C	Carbon-14	3.27E+02	2051	0
59Ni	Nickel-59	0		48
63Ni	Nickel-63	0		48
60Co	Cobalt-60	1.26E-02	2052	0.1
79Se	Selenium-79	0		3.1
90Sr	Strontium-90 + D	0		16.1
93mNb	Niobium-93m	0		100
99Tc	Technetium-99	9.03E+03	2051	0
106Ru	Ruthenium-106	0		1
113mCd	Cadmium-113m	0		1
126Sn	Tin-126	1.37E-04	12032	1
125Sb	Antimony-125	0		1
129I	Iodine-129	2.84E-02	9621	0.2
134Cs	Cesium-134	0		25
137Cs	Cesium-137 + Daughters	0		25
151Sm	Samarium-151	5.48E-12	3961	1
152Eu	Europium-152	0		1
154Eu	Europium-154	0		1
155Eu	Europium-155	0		1
226Ra	Radium-226 + D	1.10E-09	12032	1
228Ra	Radium-228 + D	0		1
227Ac	Actinium-227 + D	0		67
229Th	Thorium-229 + D	0		3
232Th	Thorium-232	0		3
231Pa	Protactinium-231	0		550
232U	Uranium-232	2.11E-10	2175	0.6
233U	Uranium-233	1.45E-04	12032	0.6
234U	Uranium-234	1.25E+00	12032	0.6
235U	Uranium-235 + D	5.83E-02	12032	0.6
236U	Uranium-236	1.10E-02	12032	0.6
238U	Uranium-238 + D	1.31E+00	12032	0.6
237Np	Neptunium-237 + D	0		2
238Pu	Plutonium-238	0		3
239Pu	Plutonium-239	0		3
240Pu	Plutonium-240	0		3
241Pu	Plutonium-241 + D	0		3
242Pu	Plutonium-242	0		3
241Am	Americium-241	0		3
243Am	Americium-243 + D	0		3
242Cm	Curium-242	0		3
243Cm	Curium-243	0		3
244Cm	Curium-244	0		3
7429-90-5	Aluminum	5.54E-07	12032	1
7664-41-7	Ammonia -- (a)	1.43E-02	2051	0.00093
7440-69-9	Bismuth	4.39E-02	2051	
7440-70-2	Calcium	0		4

16887-00-6	Chloride	1.62E-01	2051	
18540-29-9	Chromium	1.70E-01	2051	0
16984-48-8	Fluoride	3.49E-03	2051	
7439-89-6	Iron	0		25
7439-91-0	Lanthanum	2.51E-10	2051	
7439-92-1	Lead	0		5.2
7439-96-5	Manganese	7.44E-10	12032	1
7439-97-6	Mercury	0		5.2
7440-02-0	Nickel	0		48
14797-55-8	Nitrate	1.01E+01	2051	0
14797-65-0	Nitrite	1.83E+00	2051	0
14265-44-2	Phosphate	8.35E+00	2051	
7440-21-3	Silicon	0		30
7440-22-4	Silver	0		2.7
7440-23-5	Sodium	3.69E+01	2051	
14808-79-8	Sulfate	1.16E+01	2051	
7440-61-1	Uranium	3.94E-03	12032	0.6
7440-67-7	Zirconium	0		500
71-36-3	n-Butyl alcohol (1-butanol)	1.76E-03	2051	0.002076

**Kd Bin Half-Life**

Years		
		<b>Report Generated on: 5/27/2005, 8:20:36 AM</b>
		<b>Report Generated by devans ( Doug Evans )</b>
		<b>Decision Management Tool Version 4.0.0.37</b>
0	12.33	
0	5730	241-B-112 TanksPastLeaks_B-BX-BY.txt
5	74999	
5	100.1	241-BX-102 TanksPastLeaks_B-BX-BY.txt
0.1	5.2713	
2	805000	241-BX-108 TanksPastLeaks_B-BX-BY.txt
5	28.149	
5	16.13	
0	211097	<b>Major Assumptions Used:</b>
1	1.01736	Dilution factor for WMA-B-BX-BY: 40
1	14.1	Compliance Monitoring Start Year :2001
1	246000	
1	2.7299	
0.2	15700000	
5	2.0619	Verified by John Middleton 6/15/05
5	29.999	
1	89.997	
1	13.33	
1	8.5919	
1	4.68	
1	1600	
1	5.7498	
5	21.769	
2	7340	
2	14050000000	
5	32759	
0.6	69.799	
0.6	159198	
0.6	245694	
0.6	703700000	
0.6	23420000	
0.6	4468000000	
2	2140000	
2	87.697	
2	24110	
2	6563	
2	14.35	
2	373507	
2	432.7	
2	7370	
2	0.44611	
2	28.499	
2	18.1	
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0	Infinity	
5	Infinity	

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0 Infinity  
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0 Infinity  
0 Infinity  
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0.6 Infinity  
5 Infinity  
0 Infinity



case01.stp

case01.stp

case01.stp



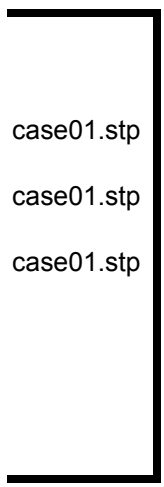
<b>CAS Number</b>	<b>Analyte Name</b>	<b>Concentration</b> pCi/L (Rad) or mg/L (Non-rad)	<b>Peak Year</b>	<b>Kd</b>
3H	Tritium	3.69E-07	2044	0
14C	Carbon-14	3.46E-03	2051	0
59Ni	Nickel-59	0		48
63Ni	Nickel-63	0		48
60Co	Cobalt-60	2.38E-08	2052	0.1
79Se	Selenium-79	0		3.1
90Sr	Strontium-90 + D	0		16.1
93mNb	Niobium-93m	0		100
99Tc	Technetium-99	3.16E-04	2051	0
106Ru	Ruthenium-106	0		1
113mCd	Cadmium-113m	0		1
126Sn	Tin-126	8.31E-10	12032	1
125Sb	Antimony-125	0		1
129I	Iodine-129	6.23E-06	9621	0.2
134Cs	Cesium-134	0		25
137Cs	Cesium-137 + Daughters	0		25
151Sm	Samarium-151	1.13E-15	3961	1
152Eu	Europium-152	0		1
154Eu	Europium-154	0		1
155Eu	Europium-155	0		1
226Ra	Radium-226 + D	2.26E-14	12032	1
228Ra	Radium-228 + D	0		1
227Ac	Actinium-227 + D	0		67
229Th	Thorium-229 + D	0		3
232Th	Thorium-232	0		3
231Pa	Protactinium-231	0		550
232U	Uranium-232	1.58E-17	2175	0.6
233U	Uranium-233	2.59E-12	12032	0.6
234U	Uranium-234	2.26E-08	12032	0.6
235U	Uranium-235 + D	1.01E-09	12032	0.6
236U	Uranium-236	3.99E-10	12032	0.6
238U	Uranium-238 + D	2.32E-08	12032	0.6
237Np	Neptunium-237 + D	0		2
238Pu	Plutonium-238	0		3
239Pu	Plutonium-239	0		3
240Pu	Plutonium-240	0		3
241Pu	Plutonium-241 + D	0		3
242Pu	Plutonium-242	0		3
241Am	Americium-241	0		3
243Am	Americium-243 + D	0		3
242Cm	Curium-242	0		3
243Cm	Curium-243	0		3
244Cm	Curium-244	0		3
7664-41-7	Ammonia -- (a)	4.93E-15	2051	0.00093
7440-69-9	Bismuth	8.50E-04	2051	
7440-70-2	Calcium	0		4
16887-00-6	Chloride	9.39E-03	2051	

18540-29-9	Chromium	3.97E-03	2051	0
16984-48-8	Fluoride	4.62E-02	2051	
7439-89-6	Iron	0		25
7439-91-0	Lanthanum	1.22E-06	2051	
7439-96-5	Manganese	4.14E-10	12032	1
7440-02-0	Nickel	0		48
14797-55-8	Nitrate	7.90E-01	2051	0
14797-65-0	Nitrite	2.09E-03	2051	0
14265-44-2	Phosphate	2.74E-02	2051	
7440-21-3	Silicon	0		30
7440-22-4	Silver	0		2.7
7440-23-5	Sodium	3.42E-01	2051	
14808-79-8	Sulfate	3.27E-03	2051	
7440-61-1	Uranium	6.96E-11	12032	0.6

**Kd Bin Half-Life**

Years		
		<b>Report Generated on: 5/27/2005, 8:21:27 AM</b>
		<b>Report Generated by devans ( Doug Evans )</b>
		<b>Decision Management Tool Version 4.0.0.37</b>
0	12.33	
0	5730	241-B-201 TanksPastLeaks_B-BX-BY.txt
5	74999	
5	100.1	241-B-203 TanksPastLeaks_B-BX-BY.txt
0.1	5.2713	
2	805000	241-B-204 TanksPastLeaks_B-BX-BY.txt
5	28.149	
5	16.13	
0	211097	<b>Major Assumptions Used:</b>
1	1.01736	Dilution factor for WMA-B-BX-BY: 40
1	14.1	Compliance Monitoring Start Year :2001
1	246000	
1	2.7299	
0.2	15700000	
5	2.0619	Verified by John Middleton 6/15/05
5	29.999	
1	89.997	
1	13.33	
1	8.5919	
1	4.68	
1	1600	
1	5.7498	
5	21.769	
2	7340	
2	1405000000	
5	32759	
0.6	69.799	
0.6	159198	
0.6	245694	
0.6	703700000	
0.6	23420000	
0.6	4468000000	
2	2140000	
2	87.697	
2	24110	
2	6563	
2	14.35	
2	373507	
2	432.7	
2	7370	
2	0.44611	
2	28.499	
2	18.1	
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0	Infinity	
5	Infinity	
0	Infinity	

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5 Infinity  
2 Infinity  
0 Infinity  
0 Infinity  
0.6 Infinity



case01.stp

case01.stp

case01.stp

CAS Number	Analyte Name	Concentration pCi/L (Rad) or mg/L (Non-rad)	Peak Year	Kd
3H	Tritium	5.24E+01	2044	0
14C	Carbon-14	8.30E+01	2051	0
59Ni	Nickel-59	0		48
63Ni	Nickel-63	0		48
60Co	Cobalt-60	3.18E-03	2052	0.1
79Se	Selenium-79	0		3.1
90Sr	Strontium-90 + D	0		16.1
93mNb	Niobium-93m	0		100
99Tc	Technetium-99	1.81E+03	2051	0
106Ru	Ruthenium-106	0		1
113mCd	Cadmium-113m	0		1
126Sn	Tin-126	3.52E-05	12032	1
125Sb	Antimony-125	0		1
129I	Iodine-129	1.45E-02	9621	0.2
134Cs	Cesium-134	0		25
137Cs	Cesium-137 + Daughters	0		25
151Sm	Samarium-151	6.95E-14	3961	1
152Eu	Europium-152	0		1
154Eu	Europium-154	0		1
155Eu	Europium-155	0		1
226Ra	Radium-226 + D	1.13E-11	12032	1
228Ra	Radium-228 + D	0		1
227Ac	Actinium-227 + D	0		67
229Th	Thorium-229 + D	0		3
232Th	Thorium-232	0		3
231Pa	Protactinium-231	0		550
232U	Uranium-232	8.72E-11	2175	0.6
233U	Uranium-233	3.29E-04	12032	0.6
234U	Uranium-234	2.18E-05	12032	0.6
235U	Uranium-235 + D	8.33E-07	12032	0.6
236U	Uranium-236	5.70E-07	12032	0.6
238U	Uranium-238 + D	1.84E-05	12032	0.6
237Np	Neptunium-237 + D	0		2
238Pu	Plutonium-238	0		3
239Pu	Plutonium-239	0		3
240Pu	Plutonium-240	0		3
241Pu	Plutonium-241 + D	0		3
242Pu	Plutonium-242	0		3
241Am	Americium-241	0		3
243Am	Americium-243 + D	0		3
242Cm	Curium-242	0		3
243Cm	Curium-243	0		3
244Cm	Curium-244	0		3
7429-90-5	Aluminum	6.59E-07	12032	1
7664-41-7	Ammonia -- (a)	8.39E-03	2051	0.00093
7440-69-9	Bismuth	3.14E-04	2051	
7440-70-2	Calcium	0		4

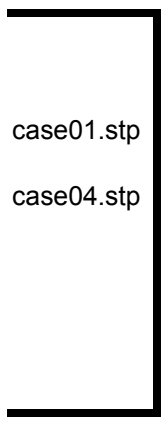
16887-00-6	Chloride	6.94E-02	2051	
18540-29-9	Chromium	2.64E-02	2051	0
16984-48-8	Fluoride	1.88E-02	2051	
7439-89-6	Iron	0		25
7439-91-0	Lanthanum	2.24E-09	2051	
7439-92-1	Lead	0		5.2
7439-96-5	Manganese	3.27E-10	12032	1
7439-97-6	Mercury	0		5.2
7440-02-0	Nickel	0		48
14797-55-8	Nitrate	1.98E+00	2051	0
14797-65-0	Nitrite	1.07E+00	2051	0
14265-44-2	Phosphate	5.45E-02	2051	
7440-21-3	Silicon	0		30
7440-22-4	Silver	0		2.7
7440-23-5	Sodium	2.34E+00	2051	
14808-79-8	Sulfate	1.09E-01	2051	
7440-61-1	Uranium	5.51E-08	12032	0.6
7440-67-7	Zirconium	0		500
71-36-3	n-Butyl alcohol (1-butanol)	1.55E-02	2051	0.002076

**Kd Bin Half-Life**

Years		
		<b>Report Generated on: 5/27/2005, 8:22:14 AM</b>
		<b>Report Generated by devans ( Doug Evans )</b>
		<b>Decision Management Tool Version 4.0.0.37</b>
0	12.33	
0	5730	241-BY-107 TanksPastLeaks_B-BX-BY.txt
5	74999	
5	100.1	UPR-200-E-105 TanksUPR_B-BX-BY.txt
0.1	5.2713	
2	805000	
5	28.149	<b>Major Assumptions Used:</b>
5	16.13	Dilution factor for WMA-B-BX-BY: 40
0	211097	Compliance Monitoring Start Year :2001
1	1.01736	
1	14.1	
1	246000	
1	2.7299	Verified by John Middleton 6/15/05
0.2	15700000	
5	2.0619	
5	29.999	
1	89.997	
1	13.33	
1	8.5919	
1	4.68	
1	1600	
1	5.7498	
5	21.769	
2	7340	
2	1405000000	
5	32759	
0.6	69.799	
0.6	159198	
0.6	245694	
0.6	703700000	
0.6	23420000	
0.6	4468000000	
2	2140000	
2	87.697	
2	24110	
2	6563	
2	14.35	
2	373507	
2	432.7	
2	7370	
2	0.44611	
2	28.499	
2	18.1	
1	Infinity	
0	Infinity	
0	Infinity	
5	Infinity	



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1 Infinity  
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0 Infinity  
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5 Infinity  
2 Infinity  
0 Infinity  
0 Infinity  
0.6 Infinity  
5 Infinity  
0 Infinity



case01.stp

case04.stp

CAS Number	Analyte Name	Concentration pCi/L (Rad) or mg/L (Non-rad)	Peak Year	Kd
3H	Tritium	1.74E+01	2044	0
14C	Carbon-14	2.77E+01	2051	0
59Ni	Nickel-59	0		48
63Ni	Nickel-63	0		48
60Co	Cobalt-60	1.06E-03	2052	0.1
79Se	Selenium-79	0		3.1
90Sr	Strontium-90 + D	0		16.1
93mNb	Niobium-93m	0		100
99Tc	Technetium-99	6.04E+02	2051	0
106Ru	Ruthenium-106	0		1
113mCd	Cadmium-113m	0		1
126Sn	Tin-126	1.17E-05	12032	1
125Sb	Antimony-125	0		1
129I	Iodine-129	4.82E-03	9621	0.2
134Cs	Cesium-134	0		25
137Cs	Cesium-137 + Daughters	0		25
151Sm	Samarium-151	2.32E-14	3961	1
152Eu	Europium-152	0		1
154Eu	Europium-154	0		1
155Eu	Europium-155	0		1
226Ra	Radium-226 + D	3.75E-12	12032	1
228Ra	Radium-228 + D	0		1
227Ac	Actinium-227 + D	0		67
229Th	Thorium-229 + D	0		3
232Th	Thorium-232	0		3
231Pa	Protactinium-231	0		550
232U	Uranium-232	2.91E-11	2175	0.6
233U	Uranium-233	1.09E-04	12032	0.6
234U	Uranium-234	7.26E-06	12032	0.6
235U	Uranium-235 + D	2.78E-07	12032	0.6
236U	Uranium-236	1.90E-07	12032	0.6
238U	Uranium-238 + D	6.13E-06	12032	0.6
237Np	Neptunium-237 + D	0		2
238Pu	Plutonium-238	0		3
239Pu	Plutonium-239	0		3
240Pu	Plutonium-240	0		3
241Pu	Plutonium-241 + D	0		3
242Pu	Plutonium-242	0		3
241Am	Americium-241	0		3
243Am	Americium-243 + D	0		3
242Cm	Curium-242	0		3
243Cm	Curium-243	0		3
244Cm	Curium-244	0		3
7429-90-5	Aluminum	2.19E-07	12032	1
7664-41-7	Ammonia -- (a)	2.78E-03	2051	0.00093
7440-69-9	Bismuth	1.04E-04	2051	
7440-70-2	Calcium	0		4

16887-00-6	Chloride	2.31E-02	2051	
18540-29-9	Chromium	8.80E-03	2051	0
16984-48-8	Fluoride	6.20E-03	2051	
7439-89-6	Iron	0		25
7439-91-0	Lanthanum	7.46E-10	2051	
7439-92-1	Lead	0		5.2
7439-96-5	Manganese	1.09E-10	12032	1
7439-97-6	Mercury	0		5.2
7440-02-0	Nickel	0		48
14797-55-8	Nitrate	6.59E-01	2051	0
14797-65-0	Nitrite	3.58E-01	2051	0
14265-44-2	Phosphate	1.81E-02	2051	
7440-21-3	Silicon	0		30
7440-23-5	Sodium	7.80E-01	2051	
14808-79-8	Sulfate	3.64E-02	2051	
7440-61-1	Uranium	1.84E-08	12032	0.6
7440-67-7	Zirconium	0		500
71-36-3	n-Butyl alcohol (1-butanol)	5.17E-03	2051	0.002076

**Kd Bin Half-Life**

Years

0	12.33
0	5730
5	74999
5	100.1
0.1	5.2713
2	805000
5	28.149
5	16.13
0	211097
1	1.01736
1	14.1
1	246000
1	2.7299
0.2	15700000
5	2.0619
5	29.999
1	89.997
1	13.33
1	8.5919
1	4.68
1	1600
1	5.7498
5	21.769
2	7340
2	14050000000
5	32759
0.6	69.799
0.6	159198
0.6	245694
0.6	703700000
0.6	23420000
0.6	4468000000
2	2140000
2	87.697
2	24110
2	6563
2	14.35
2	373507
2	432.7
2	7370
2	0.44611
2	28.499
2	18.1
1	Infinity
0	Infinity
0	Infinity
5	Infinity

**Report Generated on: 5/27/2005, 8:24:38 AM**  
**Report Generated by devans ( Doug Evans )**  
**Decision Management Tool Version 4.0.0.37**  
 241-BY-108 TanksPastLeaks\_B-BX-BY.txt

**Major Assumptions Used:**  
 Dilution factor for WMA-B-BX-BY: 40  
 Compliance Monitoring Start Year :2001

Verified by John Middleton 6/15/05

0 Infinity  
0 Infinity  
0 Infinity  
5 Infinity  
0 Infinity  
5 Infinity  
1 Infinity  
5 Infinity  
5 Infinity  
0 Infinity  
0 Infinity  
0 Infinity  
5 Infinity  
0 Infinity  
0 Infinity  
0.6 Infinity  
5 Infinity  
0 Infinity

case01.stp

CAS Number	Analyte Name	Concentration pCi/L (Rad) or mg/L (Non-rad)	Peak Year	Kd
3H	Tritium	1.74E+01	2044	0
14C	Carbon-14	2.77E+01	2051	0
59Ni	Nickel-59	0		48
63Ni	Nickel-63	0		48
60Co	Cobalt-60	1.06E-03	2052	0.1
79Se	Selenium-79	0		3.1
90Sr	Strontium-90 + D	0		16.1
93mNb	Niobium-93m	0		100
99Tc	Technetium-99	6.04E+02	2051	0
106Ru	Ruthenium-106	0		1
113mCd	Cadmium-113m	0		1
126Sn	Tin-126	1.17E-05	12032	1
125Sb	Antimony-125	0		1
129I	Iodine-129	4.82E-03	9621	0.2
134Cs	Cesium-134	0		25
137Cs	Cesium-137 + Daughters	0		25
151Sm	Samarium-151	2.32E-14	3961	1
152Eu	Europium-152	0		1
154Eu	Europium-154	0		1
155Eu	Europium-155	0		1
226Ra	Radium-226 + D	3.75E-12	12032	1
228Ra	Radium-228 + D	0		1
227Ac	Actinium-227 + D	0		67
229Th	Thorium-229 + D	0		3
232Th	Thorium-232	0		3
231Pa	Protactinium-231	0		550
232U	Uranium-232	2.91E-11	2175	0.6
233U	Uranium-233	1.10E-04	12032	0.6
234U	Uranium-234	7.26E-06	12032	0.6
235U	Uranium-235 + D	2.78E-07	12032	0.6
236U	Uranium-236	1.90E-07	12032	0.6
238U	Uranium-238 + D	6.12E-06	12032	0.6
237Np	Neptunium-237 + D	0		2
238Pu	Plutonium-238	0		3
239Pu	Plutonium-239	0		3
240Pu	Plutonium-240	0		3
241Pu	Plutonium-241 + D	0		3
242Pu	Plutonium-242	0		3
241Am	Americium-241	0		3
243Am	Americium-243 + D	0		3
242Cm	Curium-242	0		3
243Cm	Curium-243	0		3
244Cm	Curium-244	0		3
7429-90-5	Aluminum	2.20E-07	12032	1
7664-41-7	Ammonia -- (a)	2.79E-03	2051	0.00093
7440-69-9	Bismuth	1.04E-04	2051	
7440-70-2	Calcium	0		4

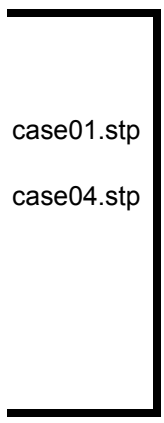


16887-00-6	Chloride	2.31E-02	2051	
18540-29-9	Chromium	8.80E-03	2051	0
16984-48-8	Fluoride	6.24E-03	2051	
7439-89-6	Iron	0		25
7439-91-0	Lanthanum	7.46E-10	2051	
7439-92-1	Lead	0		5.2
7439-96-5	Manganese	1.09E-10	12032	1
7439-97-6	Mercury	0		5.2
7440-02-0	Nickel	0		48
14797-55-8	Nitrate	6.60E-01	2051	0
14797-65-0	Nitrite	3.58E-01	2051	0
14265-44-2	Phosphate	1.81E-02	2051	
7440-21-3	Silicon	0		30
7440-22-4	Silver	0		2.7
7440-23-5	Sodium	7.80E-01	2051	
14808-79-8	Sulfate	3.65E-02	2051	
7440-61-1	Uranium	1.84E-08	12032	0.6
7440-67-7	Zirconium	0		500
71-36-3	n-Butyl alcohol (1-butanol)	5.17E-03	2051	0.002076

**Kd Bin Half-Life**

Years		
		<b>Report Generated on: 5/27/2005, 8:25:08 AM</b>
		<b>Report Generated by devans ( Doug Evans )</b>
		<b>Decision Management Tool Version 4.0.0.37</b>
0	12.33	
0	5730	241-BY-103 TanksPastLeaks_B-BX-BY.txt
5	74999	
5	100.1	UPR-200-E-110 TanksUPR_B-BX-BY.txt
0.1	5.2713	
2	805000	
5	28.149	<b>Major Assumptions Used:</b>
5	16.13	Dilution factor for WMA-B-BX-BY: 40
0	211097	Compliance Monitoring Start Year :2001
1	1.01736	
1	14.1	
1	246000	
1	2.7299	Verified by John Middleton 6/15/05
0.2	15700000	
5	2.0619	
5	29.999	
1	89.997	
1	13.33	
1	8.5919	
1	4.68	
1	1600	
1	5.7498	
5	21.769	
2	7340	
2	1405000000	
5	32759	
0.6	69.799	
0.6	159198	
0.6	245694	
0.6	703700000	
0.6	23420000	
0.6	4468000000	
2	2140000	
2	87.697	
2	24110	
2	6563	
2	14.35	
2	373507	
2	432.7	
2	7370	
2	0.44611	
2	28.499	
2	18.1	
1	Infinity	
0	Infinity	
0	Infinity	
5	Infinity	

0 Infinity  
0 Infinity  
0 Infinity  
5 Infinity  
0 Infinity  
5 Infinity  
1 Infinity  
5 Infinity  
5 Infinity  
0 Infinity  
0 Infinity  
0 Infinity  
5 Infinity  
2 Infinity  
0 Infinity  
0 Infinity  
0.6 Infinity  
5 Infinity  
0 Infinity



case01.stp

case04.stp