

Row Name	Sources Included
B-101 Row	241-BX-302A 241-BXR-Vault
B-102 Row	241-BX-DCR
B-103 Row	241-B-301 Pipeline
B-201 Row	None
BY-101 Row	None
BY-102 Row	None
BY-103 Row	None

CAS Number	Analyte Name	Concentration pCi/L (Rad) or mg/L (Non-rad)	Peak Year	Kd
3H	Tritium	0		0
14C	Carbon-14	2.11E-04	9781	0
59Ni	Nickel-59	0		48
63Ni	Nickel-63	0		48
60Co	Cobalt-60	0		0.1
79Se	Selenium-79	0		3.1
90Sr	Strontium-90 + D	0		16.1
93mNb	Niobium-93m	0		100
93Zr	Zirconium-93	0		600
99Tc	Technetium-99	2.82E-02	10461	0
106Ru	Ruthenium-106	0		1
113mCd	Cadmium-113m	0		1
126Sn	Tin-126	0		1
125Sb	Antimony-125	0		1
129I	Iodine-129	1.58E-11	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
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)	1.93E-07	10481	0.00093
7440-36-0	Antimony	0		1
7440-38-2	Arsenic	0		39

7440-39-3	Barium	0		60
7440-41-7	Beryllium	0		70
7440-69-9	Bismuth	7.95E-05	10481	
7440-42-8	Boron	0		3
7440-43-9	Cadmium	0		1.26
7440-70-2	Calcium	0		4
7440-45-1	Cerium	1.23E-07	10481	
16887-00-6	Chloride	9.85E-07	10481	
18540-29-9	Chromium	5.36E-06	10481	0
7440-48-4	Cobalt	4.25E-10	12032	0.1
7440-50-8	Copper	0		35
57-12-5	Cyanide	0		9.9
16984-48-8	Fluoride	4.69E-05	10481	
OHDEMAND	Hydroxide OH	3.54E-04	10481	
7439-89-6	Iron	0		25
7439-91-0	Lanthanum	1.01E-06	10481	
7439-92-1	Lead	0		5.2
7439-93-2	Lithium	0		300
7439-95-4	Magnesium	0		4.5
7439-96-5	Manganese	0		1
7439-97-6	Mercury	0		5.2
7439-98-7	Molybdenum	0		4
7440-00-8	Neodymium	8.57E-08	10481	
7440-02-0	Nickel	0		48
14797-55-8	Nitrate	1.42E-04	10481	0
14797-65-0	Nitrite	1.61E-05	10481	0
338-70-5	Oxalate	1.28E-05	10481	
14265-44-2	Phosphate	1.68E-04	10481	
7440-16-6	Rhodium	2.04E-08	10481	
7440-18-8	Ruthenium	0		1
7782-49-2	Selenium	0		5
7440-21-3	Silicon	0		30
7440-22-4	Silver	0		2.7
7440-23-5	Sodium	1.93E-04	10481	
7440-24-6	Strontium	0		16.1
14808-79-8	Sulfate	5.27E-05	10481	
13494-80-9	Tellurium	2.44E-08	10481	
7440-28-0	Thallium	0		71
7440-29-1	Thorium	0		1
7440-32-6	Titanium	0		1000
7440-33-7	Tungsten	1.16E-08	10481	
7440-61-1	Uranium	0		0.6
7440-62-2	Vanadium	0		50
7440-65-5	Yttrium	1.89E-09	10481	
7440-66-6	Zinc	0		62
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
5	1530000
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
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
1	Infinity
5	Infinity

Report Generated on: 5/27/2005, 8:40:23 AM
Report Generated by devans (Doug Evans)
Decision Management Tool Version 4.0.0.37
241-B-301 TanksB-BX-BYFarm_MUST.txt
Major Assumptions Used:
Dilution factor for WMA-B-BX-BY: 40
Compliance Monitoring Start Year :2001

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

case02.stp

CAS Number	Analyte Name	Concentration pCi/L (Rad) or mg/L (Non-rad)	Peak Year	Kd	Kd Bin
3H	Tritium	0		0	0
14C	Carbon-14	1.83E-04	9781	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
93Zr	Zirconium-93	0		600	5
99Tc	Technetium-99	2.99E-02	10461	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	1.05E-10	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
7429-90-5	Aluminum	0		1	1
7440-36-0	Antimony	0		1	1
7440-38-2	Arsenic	0		39	5

7440-39-3	Barium	0		60	5
7440-41-7	Beryllium	0		70	5
7440-69-9	Bismuth	1.04E-05	10481		0
7440-42-8	Boron	0		3	2
7440-43-9	Cadmium	0		1.26	1
7440-70-2	Calcium	0		4	5
7440-45-1	Cerium	3.99E-08	10481		0
16887-00-6	Chloride	1.05E-07	10481		0
18540-29-9	Chromium	2.62E-06	10481	0	0
7440-48-4	Cobalt	1.98E-10	12032	0.1	0.1
7440-50-8	Copper	0		35	5
57-12-5	Cyanide	0		9.9	5
16984-48-8	Fluoride	3.71E-06	10481		0
OHDEMAND	Hydroxide OH	1.31E-04	10481		0
7439-89-6	Iron	0		25	5
7439-91-0	Lanthanum	4.28E-08	10481		0
7439-92-1	Lead	0		5.2	5
7439-93-2	Lithium	0		300	5
7439-95-4	Magnesium	0		4.5	5
7439-96-5	Manganese	0		1	1
7439-97-6	Mercury	0		5.2	5
7439-98-7	Molybdenum	0		4	5
7440-00-8	Neodymium	1.69E-08	10481		0
7440-02-0	Nickel	0		48	5
14797-55-8	Nitrate	3.10E-05	10481	0	0
14797-65-0	Nitrite	3.54E-06	10481	0	0
338-70-5	Oxalate	2.13E-06	10481		0
14265-44-2	Phosphate	5.29E-05	10481		0
7782-49-2	Selenium	0		5	5
7440-21-3	Silicon	0		30	5
7440-22-4	Silver	0		2.7	2
7440-23-5	Sodium	4.30E-05	10481		0
7440-24-6	Strontium	0		16.1	5
14808-79-8	Sulfate	3.82E-06	10481		0
7440-29-1	Thorium	0		1	1
7440-32-6	Titanium	0		1000	5
7440-61-1	Uranium	0		0.6	0.6
7440-62-2	Vanadium	0		50	5
7440-65-5	Yttrium	5.63E-09	10481		0
7440-66-6	Zinc	0		62	5
7440-67-7	Zirconium	0		500	5

Half-Life

Years

Report Generated on: 5/27/2005, 8:41:17 AM

Report Generated by devans (Doug Evans)

Decision Management Tool Version 4.0.0.37

12.33
5730 241-BX-302A TanksB-BX-BYFarm_MUST.txt case02.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

1530000

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

CAS Number	Analyte Name	Concentration pCi/L (Rad) or mg/L (Non-rad)	Peak Year	Kd	Kd Bin
3H	Tritium	0		0	0
14C	Carbon-14	4.85E-04	9781	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
93Zr	Zirconium-93	0		600	5
99Tc	Technetium-99	7.95E-02	10461	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	2.80E-10	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
7429-90-5	Aluminum	0		1	1
7440-36-0	Antimony	0		1	1
7440-38-2	Arsenic	0		39	5

7440-39-3	Barium	0		60	5
7440-41-7	Beryllium	0		70	5
7440-69-9	Bismuth	2.76E-05	10481		0
7440-42-8	Boron	0		3	2
7440-43-9	Cadmium	0		1.26	1
7440-70-2	Calcium	0		4	5
7440-45-1	Cerium	1.06E-07	10481		0
16887-00-6	Chloride	2.79E-07	10481		0
18540-29-9	Chromium	6.95E-06	10481	0	0
7440-48-4	Cobalt	5.25E-10	12032	0.1	0.1
7440-50-8	Copper	0		35	5
57-12-5	Cyanide	0		9.9	5
16984-48-8	Fluoride	9.86E-06	10481		0
OHDEMAND	Hydroxide OH	3.49E-04	10481		0
7439-89-6	Iron	0		25	5
7439-91-0	Lanthanum	1.14E-07	10481		0
7439-92-1	Lead	0		5.2	5
7439-93-2	Lithium	0		300	5
7439-95-4	Magnesium	0		4.5	5
7439-96-5	Manganese	0		1	1
7439-97-6	Mercury	0		5.2	5
7439-98-7	Molybdenum	0		4	5
7440-00-8	Neodymium	4.48E-08	10481		0
7440-02-0	Nickel	0		48	5
14797-55-8	Nitrate	8.25E-05	10481	0	0
14797-65-0	Nitrite	9.41E-06	10481	0	0
338-70-5	Oxalate	5.65E-06	10481		0
14265-44-2	Phosphate	1.40E-04	10481		0
7782-49-2	Selenium	0		5	5
7440-21-3	Silicon	0		30	5
7440-22-4	Silver	0		2.7	2
7440-23-5	Sodium	1.14E-04	10481		0
7440-24-6	Strontium	0		16.1	5
14808-79-8	Sulfate	1.01E-05	10481		0
7440-29-1	Thorium	0		1	1
7440-32-6	Titanium	0		1000	5
7440-61-1	Uranium	0		0.6	0.6
7440-62-2	Vanadium	0		50	5
7440-65-5	Yttrium	1.50E-08	10481		0
7440-66-6	Zinc	0		62	5
7440-67-7	Zirconium	0		500	5

Half-Life

Years

Report Generated on: 5/27/2005, 8:41:31 AM

Report Generated by devans (Doug Evans)

Decision Management Tool Version 4.0.0.37

12.33

5730

74999

100.1

5.2713

805000

28.149

16.13

1530000

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

244-BX-DCR TanksB-BX-BYFarm_MUST.txt case02.stp

Major Assumptions Used:

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

Compliance Monitoring Start Year :2001

CAS Number	Analyte Name	Concentration pCi/L (Rad) or mg/L (Non-rad)	Peak Year	Kd	Kd Bin
3H	Tritium	0		0	0
14C	Carbon-14	1.71E-03	9781	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
93Zr	Zirconium-93	0		600	5
99Tc	Technetium-99	2.81E-01	10461	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	9.88E-10	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
7429-90-5	Aluminum	0		1	1
7440-36-0	Antimony	0		1	1
7440-38-2	Arsenic	0		39	5

7440-39-3	Barium	0		60	5
7440-41-7	Beryllium	0		70	5
7440-69-9	Bismuth	9.74E-05	10481		0
7440-42-8	Boron	0		3	2
7440-43-9	Cadmium	0		1.26	1
7440-70-2	Calcium	0		4	5
7440-45-1	Cerium	3.74E-07	10481		0
16887-00-6	Chloride	9.83E-07	10481		0
18540-29-9	Chromium	2.45E-05	10481	0	0
7440-48-4	Cobalt	1.85E-09	12032	0.1	0.1
7440-50-8	Copper	0		35	5
57-12-5	Cyanide	0		9.9	5
16984-48-8	Fluoride	3.48E-05	10481		0
OHDEMAND	Hydroxide OH	1.23E-03	10481		0
7439-89-6	Iron	0		25	5
7439-91-0	Lanthanum	4.01E-07	10481		0
7439-92-1	Lead	0		5.2	5
7439-93-2	Lithium	0		300	5
7439-95-4	Magnesium	0		4.5	5
7439-96-5	Manganese	0		1	1
7439-97-6	Mercury	0		5.2	5
7439-98-7	Molybdenum	0		4	5
7440-00-8	Neodymium	1.58E-07	10481		0
7440-02-0	Nickel	0		48	5
14797-55-8	Nitrate	2.91E-04	10481	0	0
14797-65-0	Nitrite	3.32E-05	10481	0	0
338-70-5	Oxalate	1.99E-05	10481		0
14265-44-2	Phosphate	4.96E-04	10481		0
7782-49-2	Selenium	0		5	5
7440-21-3	Silicon	0		30	5
7440-22-4	Silver	0		2.7	2
7440-23-5	Sodium	4.03E-04	10481		0
7440-24-6	Strontium	0		16.1	5
14808-79-8	Sulfate	3.58E-05	10481		0
7440-29-1	Thorium	0		1	1
7440-32-6	Titanium	0		1000	5
7440-61-1	Uranium	0		0.6	0.6
7440-62-2	Vanadium	0		50	5
7440-65-5	Yttrium	5.28E-08	10481		0
7440-66-6	Zinc	0		62	5
7440-67-7	Zirconium	0		500	5

Half-Life

Years

Report Generated on: 5/27/2005, 8:41:54 AM

Report Generated by devans (Doug Evans)

Decision Management Tool Version 4.0.0.37

12.33
5730 244-BXR Vault TanksB-BX-BYFarm_MUST.txt case02.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

1530000

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

CAS Number	Analyte Name	Concentration pCi/L (Rad) or mg/L (Non-rad)	Peak Year	Kd	Kd Bin
14C	Carbon-14	1.12E-02	2192	0	0
59Ni	Nickel-59	0		48	5
63Ni	Nickel-63	0		48	5
60Co	Cobalt-60	1.03E-15	2073	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	3.26E-06	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	1.63E-07	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
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
7440-69-9	Bismuth	3.94E-08	5711		0
7440-70-2	Calcium	0		4	5
16887-00-6	Chloride	7.57E-08	5711		0
18540-29-9	Chromium	1.09E-07	5711	0	0
7439-89-6	Iron	0		25	5
7439-97-6	Mercury	0		5.2	5

7440-02-0	Nickel	0	48	5
14797-55-8	Nitrate	6.57E-06	5711	0
14797-65-0	Nitrite	7.11E-07	5711	0
14265-44-2	Phosphate	1.82E-05	5711	0
7440-21-3	Silicon	0	30	5
7440-23-5	Sodium	4.82E-05	5711	0
7440-24-6	Strontium	0	16.1	5
7440-29-1	Thorium	0	1	1
7440-61-1	Uranium	0	0.6	0.6
7440-67-7	Zirconium	0	500	5

Half-Life

Years

Report Generated on: 6/9/2005, 8:13:11 AM

Report Generated by devans (Doug Evans)

Decision Management Tool Version 4.0.0.37

5730
74999 Pipe System Pipe System_BX.txt case04.stp

100.1

5.2713

805000 **Major Assumptions Used:**

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

16.13 Compliance Monitoring Start Year :2001

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

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

CAS Number	Analyte Name	Concentration pCi/L (Rad) or mg/L (Non-rad)	Peak Year	Kd	Kd Bin
3H	Tritium	0		0	0
14C	Carbon-14	1.89E-03	9781	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
93Zr	Zirconium-93	0		600	5
99Tc	Technetium-99	3.11E-01	10461	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	1.09E-09	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
7429-90-5	Aluminum	0		1	1
7440-36-0	Antimony	0		1	1
7440-38-2	Arsenic	0		39	5

7440-39-3	Barium	0		60	5
7440-41-7	Beryllium	0		70	5
7440-69-9	Bismuth	1.08E-04	10481		0
7440-42-8	Boron	0		3	2
7440-43-9	Cadmium	0		1.26	1
7440-70-2	Calcium	0		4	5
7440-45-1	Cerium	4.14E-07	10481		0
16887-00-6	Chloride	1.09E-06	10481		0
18540-29-9	Chromium	2.72E-05	10481	0	0
7440-48-4	Cobalt	2.05E-09	12032	0.1	0.1
7440-50-8	Copper	0		35	5
57-12-5	Cyanide	0		9.9	5
16984-48-8	Fluoride	3.85E-05	10481		0
OHDEMAND	Hydroxide OH	1.36E-03	10481		0
7439-89-6	Iron	0		25	5
7439-91-0	Lanthanum	4.44E-07	10481		0
7439-92-1	Lead	0		5.2	5
7439-93-2	Lithium	0		300	5
7439-95-4	Magnesium	0		4.5	5
7439-96-5	Manganese	0		1	1
7439-97-6	Mercury	0		5.2	5
7439-98-7	Molybdenum	0		4	5
7440-00-8	Neodymium	1.75E-07	10481		0
7440-02-0	Nickel	0		48	5
14797-55-8	Nitrate	3.22E-04	10481	0	0
14797-65-0	Nitrite	3.67E-05	10481	0	0
338-70-5	Oxalate	2.21E-05	10481		0
14265-44-2	Phosphate	5.49E-04	10481		0
7782-49-2	Selenium	0		5	5
7440-21-3	Silicon	0		30	5
7440-22-4	Silver	0		2.7	2
7440-23-5	Sodium	4.46E-04	10481		0
7440-24-6	Strontium	0		16.1	5
14808-79-8	Sulfate	3.96E-05	10481		0
7440-29-1	Thorium	0		1	1
7440-32-6	Titanium	0		1000	5
7440-61-1	Uranium	0		0.6	0.6
7440-62-2	Vanadium	0		50	5
7440-65-5	Yttrium	5.84E-08	10481		0
7440-66-6	Zinc	0		62	5
7440-67-7	Zirconium	0		500	5

Half-Life

Years

Report Generated on: 5/27/2005, 9:50:09 AM		
Report Generated by devans (Doug Evans)		
Decision Management Tool Version 4.0.0.37		
12.33		
5730	241-BX-302A	TanksB-BX-BYFarm_MUST.txt case02.stp
74999		
100.1	244-BXR Vault	TanksB-BX-BYFarm_MUST.txt case02.stp
5.2713		
805000		
28.149	Major Assumptions Used:	
16.13	Dilution factor for WMA-B-BX-BY: 40	
1530000	Compliance Monitoring Start Year :2001	
211097		

1.01736

14.1

246000 Verified by John Middleton 6/15/05

2.7299

15700000

2.0619

29.999

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24110

6563

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373507

432.7

7370

0.44611

28.499

18.1

Infinity

Infinity

Infinity

CAS Number	Analyte Name	Concentration pCi/L (Rad) or mg/L (Non-rad)	Peak Year	Kd	Kd Bin
3H	Tritium	0		0	0
14C	Carbon-14	4.85E-04	9781	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
93Zr	Zirconium-93	0		600	5
99Tc	Technetium-99	7.95E-02	10461	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	2.80E-10	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
7429-90-5	Aluminum	0		1	1
7440-36-0	Antimony	0		1	1
7440-38-2	Arsenic	0		39	5

7440-39-3	Barium	0		60	5
7440-41-7	Beryllium	0		70	5
7440-69-9	Bismuth	2.76E-05	10481		0
7440-42-8	Boron	0		3	2
7440-43-9	Cadmium	0		1.26	1
7440-70-2	Calcium	0		4	5
7440-45-1	Cerium	1.06E-07	10481		0
16887-00-6	Chloride	2.79E-07	10481		0
18540-29-9	Chromium	6.95E-06	10481	0	0
7440-48-4	Cobalt	5.25E-10	12032	0.1	0.1
7440-50-8	Copper	0		35	5
57-12-5	Cyanide	0		9.9	5
16984-48-8	Fluoride	9.86E-06	10481		0
OHDEMAND	Hydroxide OH	3.49E-04	10481		0
7439-89-6	Iron	0		25	5
7439-91-0	Lanthanum	1.14E-07	10481		0
7439-92-1	Lead	0		5.2	5
7439-93-2	Lithium	0		300	5
7439-95-4	Magnesium	0		4.5	5
7439-96-5	Manganese	0		1	1
7439-97-6	Mercury	0		5.2	5
7439-98-7	Molybdenum	0		4	5
7440-00-8	Neodymium	4.48E-08	10481		0
7440-02-0	Nickel	0		48	5
14797-55-8	Nitrate	8.25E-05	10481	0	0
14797-65-0	Nitrite	9.41E-06	10481	0	0
338-70-5	Oxalate	5.65E-06	10481		0
14265-44-2	Phosphate	1.40E-04	10481		0
7782-49-2	Selenium	0		5	5
7440-21-3	Silicon	0		30	5
7440-22-4	Silver	0		2.7	2
7440-23-5	Sodium	1.14E-04	10481		0
7440-24-6	Strontium	0		16.1	5
14808-79-8	Sulfate	1.01E-05	10481		0
7440-29-1	Thorium	0		1	1
7440-32-6	Titanium	0		1000	5
7440-61-1	Uranium	0		0.6	0.6
7440-62-2	Vanadium	0		50	5
7440-65-5	Yttrium	1.50E-08	10481		0
7440-66-6	Zinc	0		62	5
7440-67-7	Zirconium	0		500	5

Half-Life

Years

Report Generated on: 5/27/2005, 9:50:48 AM

Report Generated by devans (Doug Evans)

Decision Management Tool Version 4.0.0.37

12.33

5730

74999

100.1

5.2713

805000

28.149

16.13

1530000

211097

1.01736 Verified by John Middleton 6/15/05

14.1

246000

2.7299

15700000

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29.999

89.997

13.33

8.5919

4.68

1600

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7340

1405000000

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159198

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23420000

4468000000

2140000

87.697

24110

6563

14.35

373507

432.7

7370

0.44611

28.499

18.1

Infinity

Infinity

Infinity

244-BX-DCR TanksB-BX-BYFarm_MUST.txt case02.stp

Major Assumptions Used:

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

Compliance Monitoring Start Year :2001

CAS Number	Analyte Name	Concentration pCi/L (Rad) or mg/L (Non-rad)	Peak Year	Kd
3H	Tritium	0		0
14C	Carbon-14	1.12E-02	2192	0
59Ni	Nickel-59	0		48
63Ni	Nickel-63	0		48
60Co	Cobalt-60	1.03E-15	2073	0.1
79Se	Selenium-79	0		3.1
90Sr	Strontium-90 + D	0		16.1
93mNb	Niobium-93m	0		100
93Zr	Zirconium-93	0		600
99Tc	Technetium-99	2.82E-02	10461	0
106Ru	Ruthenium-106	0		1
113mCd	Cadmium-113m	0		1
126Sn	Tin-126	0		1
125Sb	Antimony-125	0		1
129I	Iodine-129	1.63E-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
7429-90-5	Aluminum	0		1
7664-41-7	Ammonia -- (a)	1.93E-07	10481	0.00093
7440-36-0	Antimony	0		1

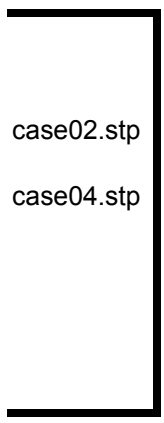
7440-38-2	Arsenic	0		39
7440-39-3	Barium	0		60
7440-41-7	Beryllium	0		70
7440-69-9	Bismuth	7.95E-05	10481	
7440-42-8	Boron	0		3
7440-43-9	Cadmium	0		1.26
7440-70-2	Calcium	0		4
7440-45-1	Cerium	1.23E-07	10481	
16887-00-6	Chloride	9.96E-07	10421	
18540-29-9	Chromium	5.37E-06	10461	0
7440-48-4	Cobalt	4.25E-10	12032	0.1
7440-50-8	Copper	0		35
57-12-5	Cyanide	0		9.9
16984-48-8	Fluoride	4.69E-05	10481	
OHDEMAND	Hydroxide OH	3.54E-04	10481	
7439-89-6	Iron	0		25
7439-91-0	Lanthanum	1.01E-06	10481	
7439-92-1	Lead	0		5.2
7439-93-2	Lithium	0		300
7439-95-4	Magnesium	0		4.5
7439-96-5	Manganese	0		1
7439-97-6	Mercury	0		5.2
7439-98-7	Molybdenum	0		4
7440-00-8	Neodymium	8.57E-08	10481	
7440-02-0	Nickel	0		48
14797-55-8	Nitrate	1.43E-04	10451	0
14797-65-0	Nitrite	1.62E-05	10451	0
338-70-5	Oxalate	1.28E-05	10481	
14265-44-2	Phosphate	1.71E-04	10401	
7440-16-6	Rhodium	2.04E-08	10481	
7440-18-8	Ruthenium	0		1
7782-49-2	Selenium	0		5
7440-21-3	Silicon	0		30
7440-22-4	Silver	0		2.7
7440-23-5	Sodium	2.01E-04	10281	
7440-24-6	Strontium	0		16.1
14808-79-8	Sulfate	5.27E-05	10481	
13494-80-9	Tellurium	2.44E-08	10481	
7440-28-0	Thallium	0		71
7440-29-1	Thorium	0		1
7440-32-6	Titanium	0		1000
7440-33-7	Tungsten	1.16E-08	10481	
7440-61-1	Uranium	0		0.6
7440-62-2	Vanadium	0		50
7440-65-5	Yttrium	1.89E-09	10481	
7440-66-6	Zinc	0		62
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
5	1530000
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
1	Infinity

Report Generated on: 5/27/2005, 9:52:05 AM
Report Generated by devans (Doug Evans)
Decision Management Tool Version 4.0.0.37
241-B-301 TanksB-BX-BYFarm_MUST.txt
Pipe System Pipe System_BX.txt
Major Assumptions Used:
Dilution factor for WMA-B-BX-BY: 40
Compliance Monitoring Start Year :2001

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



case02.stp

case04.stp