

<u>Row Name</u>	<u>Sources Included</u>
A-101 Row	241-A-101 241-A-102 241-A-103
A-104 Row	241-A-104 241-A-105 241-A-106
A-104 Row + MUSTs	241-A-104 241-A-105 241-A-106 241-A-350 241-A-417
AX-101 Row	241-AX-101 241-AX-103 241-AX-152
AX-102 Row	241-AX-102 241-AX-104

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	1.27E-02	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	1.15E+00	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	1.66E-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
7440-39-3	Barium	0		60	5
7440-41-7	Beryllium	0		70	5

7440-69-9	Bismuth	1.02E-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
16887-00-6	Chloride	3.70E-05	10481		0
18540-29-9	Chromium	2.67E-03	10481	0	0
7440-48-4	Cobalt	1.84E-07	12032	0.1	0.1
7440-50-8	Copper	0		35	5
16984-48-8	Fluoride	5.10E-06	10481		0
OHDEMAND	Hydroxide OH	5.58E-03	10481		0
7439-89-6	Iron	0		25	5
7439-91-0	Lanthanum	9.80E-06	10481		0
7439-92-1	Lead	0		5.2	5
7439-93-2	Lithium	0		300	5
7439-96-5	Manganese	0		1	1
7439-97-6	Mercury	0		5.2	5
7439-98-7	Molybdenum	0		4	5
7440-02-0	Nickel	0		48	5
14797-55-8	Nitrate	1.26E-03	10481	0	0
14797-65-0	Nitrite	6.86E-04	10481	0	0
338-70-5	Oxalate	6.67E-03	10481		0
14265-44-2	Phosphate	3.39E-04	10481		0
7440-21-3	Silicon	0		30	5
7440-22-4	Silver	0		2.7	2
7440-23-5	Sodium	1.99E-03	10481		0
7440-24-6	Strontium	0		16.1	5
14808-79-8	Sulfate	5.78E-04	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
7440-66-6	Zinc	0		62	5
7440-67-7	Zirconium	0		500	5
Rad Totals					
Non-Rad Totals					
Cumulative Totals					

Half-Life

Years

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

Report Generated on: 5/25/2005, 8:14:15 AM

Report Generated by H0098416 (David J. Watson)

Decision Management Tool Version 4.0.0.37

241-A-101

TanksA-AXFarm_Jan01_HTWOS.txt case02.stp

Major Assumptions Used:

Dilution factor for WMA-A-AX: 40

Compliance Monitoring Start Year :2001

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	6.74E-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	1.35E+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	2.10E-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
7440-69-9	Bismuth	4.59E-05	10481		0
7440-42-8	Boron	0		3	2
7440-70-2	Calcium	0		4	5

16887-00-6	Chloride	1.01E-04	10481		0
18540-29-9	Chromium	1.20E-03	10481	0	0
16984-48-8	Fluoride	4.84E-06	10481		0
OHDEMAND	Hydroxide OH	8.66E-03	10481		0
7439-89-6	Iron	0		25	5
7439-91-0	Lanthanum	1.43E-05	10481		0
7439-92-1	Lead	0		5.2	5
7439-96-5	Manganese	0		1	1
7439-97-6	Mercury	0		5.2	5
7439-98-7	Molybdenum	0		4	5
7440-02-0	Nickel	0		48	5
14797-55-8	Nitrate	1.54E-03	10481	0	0
14797-65-0	Nitrite	1.05E-03	10481	0	0
338-70-5	Oxalate	1.08E-03	10481		0
14265-44-2	Phosphate	2.30E-04	10481		0
7440-21-3	Silicon	0		30	5
7440-23-5	Sodium	3.17E-03	10481		0
7440-24-6	Strontium	0		16.1	5
14808-79-8	Sulfate	3.60E-04	10481		0
7440-29-1	Thorium	0		1	1
7440-61-1	Uranium	0		0.6	0.6
7440-67-7	Zirconium	0		500	5
Rad Totals					
Non-Rad Totals					
Cumulative Totals					

Half-Life

Years

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

Report Generated on: 5/25/2005, 8:14:41 AM
Report Generated by H0098416 (David J. Watson)
Decision Management Tool Version 4.0.0.37
241-A-102 TanksA-AXFarm_Jan01_HTWOS.txt case02.stp
Major Assumptions Used:
Dilution factor for WMA-A-AX: 40
Compliance Monitoring Start Year :2001

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	8.34E-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	5.36E+00	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	2.86E-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
7440-39-3	Barium	0		60	5
7440-69-9	Bismuth	1.96E-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
16887-00-6	Chloride	4.92E-05	10481		0
18540-29-9	Chromium	4.45E-04	10481	0	0
16984-48-8	Fluoride	1.01E-05	10481		0
OHDEMAND	Hydroxide OH	1.02E-02	10481		0
7439-89-6	Iron	0		25	5
7439-91-0	Lanthanum	1.18E-10	10481		0
7439-92-1	Lead	0		5.2	5
7439-95-4	Magnesium	0		4.5	5
7439-96-5	Manganese	0		1	1
7439-97-6	Mercury	0		5.2	5
7440-02-0	Nickel	0		48	5
14797-55-8	Nitrate	1.30E-03	10481	0	0
14797-65-0	Nitrite	9.13E-04	10481	0	0
338-70-5	Oxalate	3.10E-03	10481		0
14265-44-2	Phosphate	9.22E-05	10481		0
7440-21-3	Silicon	0		30	5
7440-22-4	Silver	0		2.7	2
7440-23-5	Sodium	3.44E-03	10481		0
7440-24-6	Strontium	0		16.1	5
14808-79-8	Sulfate	3.62E-04	10481		0
7440-29-1	Thorium	0		1	1
7440-61-1	Uranium	0		0.6	0.6
7440-66-6	Zinc	0		62	5
7440-67-7	Zirconium	0		500	5
Rad Totals					
Non-Rad Totals					
Cumulative Totals					

Half-Life

Years

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
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24110
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14.35
373507
432.7
7370
0.44611
28.499
18.1

Report Generated on: 5/25/2005, 8:14:52 AM

Report Generated by H0098416 (David J. Watson)

Decision Management Tool Version 4.0.0.37

241-A-103

TanksA-AXFarm_Jan01_HTWOS.txt case02.stp

Major Assumptions Used:

Dilution factor for WMA-A-AX: 40

Compliance Monitoring Start Year :2001

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	1.18E-02	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
93Zr	Zirconium-93	0		600	5
99Tc	Technetium-99	1.24E-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	8.74E-11	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
7440-39-3	Barium	0		60	5
7440-69-9	Bismuth	6.97E-10	10481		0
7440-70-2	Calcium	0		4	5
16887-00-6	Chloride	1.13E-06	10481		0

18540-29-9	Chromium	1.46E-05	10481	0	0
16984-48-8	Fluoride	2.36E-08	10481		0
OHDEMAND	Hydroxide OH	9.99E-03	10481		0
7439-89-6	Iron	0		25	5
7439-91-0	Lanthanum	1.36E-06	10481		0
7439-92-1	Lead	0		5.2	5
7439-95-4	Magnesium	0		4.5	5
7439-96-5	Manganese	0		1	1
7439-97-6	Mercury	0		5.2	5
7440-02-0	Nickel	0		48	5
14797-55-8	Nitrate	5.58E-06	10481	0	0
14797-65-0	Nitrite	5.85E-05	10481	0	0
14265-44-2	Phosphate	6.27E-05	10481		0
7440-21-3	Silicon	0		30	5
7440-23-5	Sodium	5.49E-04	10481		0
7440-24-6	Strontium	0		16.1	5
14808-79-8	Sulfate	1.45E-05	10481		0
7440-29-1	Thorium	0		1	1
7440-61-1	Uranium	0		0.6	0.6
7440-67-7	Zirconium	0		500	5
Rad Totals					
Non-Rad Totals					
Cumulative Totals					

Half-Life

Years

12.33
5730
74999
100.1
5.2713
805000
28.149
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

Report Generated on: 5/25/2005, 8:15:02 AM
Report Generated by H0098416 (David J. Watson)
Decision Management Tool Version 4.0.0.37
241-A-104 TanksA-AXFarm_Jan01_HTWOS.txt case02.stp
Major Assumptions Used:
Dilution factor for WMA-A-AX: 40
Compliance Monitoring Start Year :2001

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	2.81E-02	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	6.05E-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	5.15E-11	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
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
7440-70-2	Calcium	0		4	5
16887-00-6	Chloride	2.05E-06	10481		0
18540-29-9	Chromium	7.74E-05	10481	0	0
16984-48-8	Fluoride	6.63E-07	10481		0

OHDEMAND	Hydroxide OH	8.05E-03	10481		0
7439-89-6	Iron	0		25	5
7439-91-0	Lanthanum	8.72E-05	10481		0
7439-92-1	Lead	0		5.2	5
7439-96-5	Manganese	0		1	1
7439-97-6	Mercury	0		5.2	5
7440-02-0	Nickel	0		48	5
14797-55-8	Nitrate	3.76E-04	10481	0	0
14797-65-0	Nitrite	1.47E-05	10481	0	0
14265-44-2	Phosphate	4.46E-04	10481		0
7440-21-3	Silicon	0		30	5
7440-23-5	Sodium	1.98E-03	10481		0
7440-24-6	Strontium	0		16.1	5
14808-79-8	Sulfate	1.94E-04	10481		0
7440-61-1	Uranium	0		0.6	0.6
7440-67-7	Zirconium	0		500	5
Rad Totals					
Non-Rad Totals					
Cumulative Totals					

Half-Life

Years

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
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

Report Generated on: 5/25/2005, 8:15:13 AM
Report Generated by H0098416 (David J. Watson)
Decision Management Tool Version 4.0.0.37
241-A-105 TanksA-AXFarm_Jan01_HTWOS.txt case02.stp
Major Assumptions Used:
Dilution factor for WMA-A-AX: 40
Compliance Monitoring Start Year :2001

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	2.46E-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	8.87E-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	1.10E-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
7440-39-3	Barium	0		60	5
7440-69-9	Bismuth	1.02E-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
16887-00-6	Chloride	5.53E-05	10481		0
18540-29-9	Chromium	3.22E-04	10481	0	0
7440-48-4	Cobalt	6.16E-09	12032	0.1	0.1
7440-50-8	Copper	0		35	5
16984-48-8	Fluoride	7.26E-07	10481		0
OHDEMAND	Hydroxide OH	1.13E-02	10481		0
7439-89-6	Iron	0		25	5
7439-91-0	Lanthanum	6.00E-06	10481		0
7439-92-1	Lead	0		5.2	5
7439-95-4	Magnesium	0		4.5	5
7439-96-5	Manganese	0		1	1
7439-97-6	Mercury	0		5.2	5
7440-02-0	Nickel	0		48	5
14797-55-8	Nitrate	6.36E-04	10481	0	0
14797-65-0	Nitrite	5.78E-04	10481	0	0
338-70-5	Oxalate	4.22E-04	10481		0
14265-44-2	Phosphate	7.33E-04	10481		0
7440-21-3	Silicon	0		30	5
7440-22-4	Silver	0		2.7	2
7440-23-5	Sodium	2.01E-03	10481		0
7440-24-6	Strontium	0		16.1	5
14808-79-8	Sulfate	3.11E-05	10481		0
7440-61-1	Uranium	0		0.6	0.6
7440-67-7	Zirconium	0		500	5
Rad Totals					
Non-Rad Totals					
Cumulative Totals					

Half-Life

Years

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

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Report Generated by H0098416 (David J. Watson)

Decision Management Tool Version 4.0.0.37

241-A-106

TanksA-AXFarm_Jan01_HTWOS.txt case02.stp

Major Assumptions Used:

Dilution factor for WMA-A-AX: 40

Compliance Monitoring Start Year :2001

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	1.55E-02	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	1.29E+00	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	1.87E-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	1.54E-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	5.13E-05	10481		0
16887-00-6	Chloride	3.96E-05	10481		0
18540-29-9	Chromium	2.46E-03	10481	0	0
7440-48-4	Cobalt	6.86E-08	12032	0.1	0.1
7440-50-8	Copper	0		35	5
16984-48-8	Fluoride	7.45E-06	10481		0
OHDEMAND	Hydroxide OH	3.96E-03	10481		0
7439-89-6	Iron	0		25	5
7439-91-0	Lanthanum	3.73E-10	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	5.13E-05	10481		0
7440-02-0	Nickel	0		48	5
14797-55-8	Nitrate	1.54E-03	10481	0	0
14797-65-0	Nitrite	7.60E-04	10481	0	0
338-70-5	Oxalate	6.80E-03	10481		0
14265-44-2	Phosphate	1.19E-03	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	2.43E-03	10481		0
7440-24-6	Strontium	0		16.1	5
14808-79-8	Sulfate	1.18E-03	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
7440-66-6	Zinc	0		62	5
7440-67-7	Zirconium	0		500	5
Rad Totals					
Non-Rad Totals					
Cumulative Totals					

Half-Life

Years

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

Report Generated on: 5/25/2005, 8:15:36 AM

Report Generated by H0098416 (David J. Watson)

Decision Management Tool Version 4.0.0.37

241-AX-101

TanksA-AXFarm_Jan01_HTWOS.txt case02.stp

Major Assumptions Used:

Dilution factor for WMA-A-AX: 40

Compliance Monitoring Start Year :2001

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	2.23E-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	7.72E-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	2.08E-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
7440-39-3	Barium	0		60	5
7440-69-9	Bismuth	2.29E-06	10481		0
7440-70-2	Calcium	0		4	5

16887-00-6	Chloride	9.76E-06	10481		0
18540-29-9	Chromium	9.75E-05	10481	0	0
16984-48-8	Fluoride	5.30E-06	10481		0
OHDEMAND	Hydroxide OH	6.31E-03	10481		0
7439-89-6	Iron	0		25	5
7439-91-0	Lanthanum	6.76E-06	10481		0
7439-92-1	Lead	0		5.2	5
7439-95-4	Magnesium	0		4.5	5
7439-96-5	Manganese	0		1	1
7439-97-6	Mercury	0		5.2	5
7440-02-0	Nickel	0		48	5
14797-55-8	Nitrate	2.31E-03	10481	0	0
14797-65-0	Nitrite	4.54E-04	10481	0	0
338-70-5	Oxalate	1.96E-03	10481		0
14265-44-2	Phosphate	8.09E-04	10481		0
7440-21-3	Silicon	0		30	5
7440-23-5	Sodium	2.19E-03	10481		0
7440-24-6	Strontium	0		16.1	5
14808-79-8	Sulfate	4.14E-05	10481		0
7440-61-1	Uranium	0		0.6	0.6
7440-67-7	Zirconium	0		500	5
Rad Totals					
Non-Rad Totals					
Cumulative Totals					

Half-Life

Years

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

Report Generated on: 5/25/2005, 8:15:46 AM

Report Generated by H0098416 (David J. Watson)

Decision Management Tool Version 4.0.0.37

241-AX-102

TanksA-AXFarm_Jan01_HTWOS.txt case02.stp

Major Assumptions Used:

Dilution factor for WMA-A-AX: 40

Compliance Monitoring Start Year :2001

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	1.32E-02	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	1.35E+00	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	1.84E-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
7440-69-9	Bismuth	4.72E-06	10481		0
7440-70-2	Calcium	0		4	5
16887-00-6	Chloride	6.35E-05	10481		0

18540-29-9	Chromium	1.15E-03	10481	0	0
16984-48-8	Fluoride	1.06E-05	10481		0
OHDEMAND	Hydroxide OH	8.71E-03	10481		0
7439-89-6	Iron	0		25	5
7439-91-0	Lanthanum	3.48E-05	10481		0
7439-92-1	Lead	0		5.2	5
7439-96-5	Manganese	0		1	1
7439-97-6	Mercury	0		5.2	5
7440-02-0	Nickel	0		48	5
14797-55-8	Nitrate	1.35E-03	10481	0	0
14797-65-0	Nitrite	1.06E-03	10481	0	0
338-70-5	Oxalate	1.42E-03	10481		0
14265-44-2	Phosphate	1.47E-03	10481		0
7440-21-3	Silicon	0		30	5
7440-23-5	Sodium	3.85E-03	10481		0
7440-24-6	Strontium	0		16.1	5
14808-79-8	Sulfate	1.63E-04	10481		0
7440-29-1	Thorium	0		1	1
7440-61-1	Uranium	0		0.6	0.6
7440-67-7	Zirconium	0		500	5
Rad Totals					
Non-Rad Totals					
Cumulative Totals					

Half-Life

Years

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

Report Generated on: 5/25/2005, 8:15:59 AM
Report Generated by H0098416 (David J. Watson)
Decision Management Tool Version 4.0.0.37
241-AX-103 TanksA-AXFarm_Jan01_HTWOS.txt case02.stp
Major Assumptions Used:
Dilution factor for WMA-A-AX: 40
Compliance Monitoring Start Year :2001

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	1.92E-02	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	4.56E+00	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	2.53E-11	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
7440-39-3	Barium	0		60	5
7440-43-9	Cadmium	0		1.26	1
7440-70-2	Calcium	0		4	5

16887-00-6	Chloride	7.90E-07	10481		0
18540-29-9	Chromium	8.51E-06	10481	0	0
16984-48-8	Fluoride	2.55E-07	10481		0
OHDEMAND	Hydroxide OH	7.89E-03	10481		0
7439-89-6	Iron	0		25	5
7439-91-0	Lanthanum	3.57E-05	10481		0
7439-92-1	Lead	0		5.2	5
7439-95-4	Magnesium	0		4.5	5
7439-96-5	Manganese	0		1	1
7439-97-6	Mercury	0		5.2	5
7440-02-0	Nickel	0		48	5
14797-55-8	Nitrate	1.15E-04	10481	0	0
14797-65-0	Nitrite	5.65E-06	10481	0	0
14265-44-2	Phosphate	6.10E-05	10481		0
7440-21-3	Silicon	0		30	5
7440-23-5	Sodium	1.09E-04	10481		0
7440-24-6	Strontium	0		16.1	5
14808-79-8	Sulfate	1.20E-05	10481		0
7440-61-1	Uranium	0		0.6	0.6
7440-67-7	Zirconium	0		500	5
Rad Totals					
Non-Rad Totals					
Cumulative Totals					

Half-Life

Years

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

Report Generated on: 5/25/2005, 8:16:09 AM
Report Generated by H0098416 (David J. Watson)
Decision Management Tool Version 4.0.0.37
241-AX-104 TanksA-AXFarm_Jan01_HTWOS.txt case02.stp
Major Assumptions Used:
Dilution factor for WMA-A-AX: 40
Compliance Monitoring Start Year :2001

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	2.78E-02	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	2.00E+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	6.62E-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
7440-39-3	Barium	0		60	5
7440-41-7	Beryllium	0		70	5

7440-69-9	Bismuth	7.57E-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
16887-00-6	Chloride	1.87E-04	10481		0
18540-29-9	Chromium	4.32E-03	10481	0	0
7440-48-4	Cobalt	1.84E-07	12032	0.1	0.1
7440-50-8	Copper	0		35	5
16984-48-8	Fluoride	2.01E-05	10481		0
OHDEMAND	Hydroxide OH	2.44E-02	10481		0
7439-89-6	Iron	0		25	5
7439-91-0	Lanthanum	2.41E-05	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
7440-02-0	Nickel	0		48	5
14797-55-8	Nitrate	4.10E-03	10481	0	0
14797-65-0	Nitrite	2.65E-03	10481	0	0
338-70-5	Oxalate	1.08E-02	10481		0
14265-44-2	Phosphate	6.62E-04	10481		0
7440-21-3	Silicon	0		30	5
7440-22-4	Silver	0		2.7	2
7440-23-5	Sodium	8.60E-03	10481		0
7440-24-6	Strontium	0		16.1	5
14808-79-8	Sulfate	1.30E-03	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
7440-66-6	Zinc	0		62	5
7440-67-7	Zirconium	0		500	5
Rad Totals					
Non-Rad Totals					
Cumulative Totals					

Half-Life

Years

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

Report Generated on: 5/25/2005, 8:11:19 AM		
Report Generated by H0098416 (David J. Watson)		
Decision Management Tool Version 4.0.0.37		
241-A-101	TanksA-AXFarm_Jan01_HTWOS.txt	case02.stp
241-A-102	TanksA-AXFarm_Jan01_HTWOS.txt	case02.stp
241-A-103	TanksA-AXFarm_Jan01_HTWOS.txt	case02.stp
Major Assumptions Used:		
Dilution factor for WMA-A-AX: 40		
Compliance Monitoring Start Year :2001		

Verified by John Middleton 6/15/05

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	4.23E-02	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	1.62E+00	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	1.24E-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
7440-39-3	Barium	0		60	5
7440-69-9	Bismuth	1.02E-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
16887-00-6	Chloride	5.85E-05	10481		0
18540-29-9	Chromium	4.14E-04	10481	0	0
7440-48-4	Cobalt	6.16E-09	12032	0.1	0.1
7440-50-8	Copper	0		35	5
16984-48-8	Fluoride	1.41E-06	10481		0
OHDEMAND	Hydroxide OH	2.93E-02	10481		0
7439-89-6	Iron	0		25	5
7439-91-0	Lanthanum	9.46E-05	10481		0
7439-92-1	Lead	0		5.2	5
7439-95-4	Magnesium	0		4.5	5
7439-96-5	Manganese	0		1	1
7439-97-6	Mercury	0		5.2	5
7440-02-0	Nickel	0		48	5
14797-55-8	Nitrate	1.02E-03	10481	0	0
14797-65-0	Nitrite	6.51E-04	10481	0	0
338-70-5	Oxalate	4.22E-04	10481		0
14265-44-2	Phosphate	1.24E-03	10481		0
7440-21-3	Silicon	0		30	5
7440-22-4	Silver	0		2.7	2
7440-23-5	Sodium	4.55E-03	10481		0
7440-24-6	Strontium	0		16.1	5
14808-79-8	Sulfate	2.40E-04	10481		0
7440-29-1	Thorium	0		1	1
7440-61-1	Uranium	0		0.6	0.6
7440-67-7	Zirconium	0		500	5
Rad Totals					
Non-Rad Totals					
Cumulative Totals					

Half-Life

Years

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

Report Generated on: 5/25/2005, 8:11:47 AM		
Report Generated by H0098416 (David J. Watson)		
Decision Management Tool Version 4.0.0.37		
241-A-104	TanksA-AXFarm_Jan01_HTWOS.txt	case02.stp
241-A-105	TanksA-AXFarm_Jan01_HTWOS.txt	case02.stp
241-A-106	TanksA-AXFarm_Jan01_HTWOS.txt	case02.stp
241-A-417		
241-A-350		
Major Assumptions Used:		
Dilution factor for WMA-A-AX: 40		
Compliance Monitoring Start Year :2001		

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	4.31E-02	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	1.86E+00	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	1.33E-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
7440-39-3	Barium	0		60	5

7440-41-7	Beryllium	0		70	5
7440-69-9	Bismuth	1.11E-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
16887-00-6	Chloride	6.13E-05	10481		0
18540-29-9	Chromium	4.68E-04	10481	0	0
7440-48-4	Cobalt	8.33E-09	12032	0.1	0.1
7440-50-8	Copper	0		35	5
16984-48-8	Fluoride	1.66E-06	10481		0
OHDEMAND	Hydroxide OH	3.00E-02	10481		0
7439-89-6	Iron	0		25	5
7439-91-0	Lanthanum	9.59E-05	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
7440-02-0	Nickel	0		48	5
14797-55-8	Nitrate	1.08E-03	10481	0	0
14797-65-0	Nitrite	6.88E-04	10481	0	0
338-70-5	Oxalate	5.51E-04	10481		0
14265-44-2	Phosphate	1.26E-03	10481		0
7440-21-3	Silicon	0		30	5
7440-22-4	Silver	0		2.7	2
7440-23-5	Sodium	4.70E-03	10481		0
7440-24-6	Strontium	0		16.1	5
14808-79-8	Sulfate	2.57E-04	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
7440-66-6	Zinc	0		62	5
7440-67-7	Zirconium	0		500	5

Half-Life

Years

Report Generated on: 5/31/2005, 4:00:49 PM

Report Generated by H0098416 (David J. Watson)

Decision Management Tool Version 4.0.0.37

12.33			
5730	241-A-104	TanksA-AXFarm_Jan01_HTWOS.txt	case02.stp
74999			
100.1	241-A-105	TanksA-AXFarm_Jan01_HTWOS.txt	case02.stp
5.2713			
805000	241-A-106	TanksA-AXFarm_Jan01_HTWOS.txt	case02.stp
28.149			
16.13	241-A-417	TanksA-AXFarm_MUST.txt	case02.stp
1530000			
211097	241-A-350	TanksA-AXFarm_MUST.txt	case02.stp
1.01736			
14.1			

246000 **Major Assumptions Used:**

2.7299 Dilution factor for WMA-A-AX: 40

15700000 Compliance Monitoring Start Year :2001

2.0619

29.999

89.997

13.33 Verified by John Middleton 6/15/05

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	2.87E-02	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	2.64E+00	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	3.71E-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	2.01E-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	5.13E-05	10481		0
16887-00-6	Chloride	1.03E-04	10481		0
18540-29-9	Chromium	3.61E-03	10481	0	0
7440-48-4	Cobalt	6.86E-08	12032	0.1	0.1
7440-50-8	Copper	0		35	5
16984-48-8	Fluoride	1.81E-05	10481		0
OHDEMAND	Hydroxide OH	1.27E-02	10481		0
7439-89-6	Iron	0		25	5
7439-91-0	Lanthanum	3.48E-05	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	5.13E-05	10481		0
7440-02-0	Nickel	0		48	5
14797-55-8	Nitrate	2.89E-03	10481	0	0
14797-65-0	Nitrite	1.82E-03	10481	0	0
338-70-5	Oxalate	8.22E-03	10481		0
14265-44-2	Phosphate	2.66E-03	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	6.28E-03	10481		0
7440-24-6	Strontium	0		16.1	5
14808-79-8	Sulfate	1.34E-03	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
7440-66-6	Zinc	0		62	5
7440-67-7	Zirconium	0		500	5
Rad Totals					
Non-Rad Totals					
Cumulative Totals					

Half-Life

Years

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
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373507
432.7
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0.44611
28.499
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Report Generated on: 5/25/2005, 8:12:08 AM		
Report Generated by H0098416 (David J. Watson)		
Decision Management Tool Version 4.0.0.37		
241-AX-101	TanksA-AXFarm_Jan01_HTWOS.txt	case02.stp
241-AX-103	TanksA-AXFarm_Jan01_HTWOS.txt	case02.stp
241-AX-152		
Major Assumptions Used:		
Dilution factor for WMA-A-AX: 40		
Compliance Monitoring Start Year :2001		

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	2.15E-02	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	4.64E+00	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	2.10E-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
7440-39-3	Barium	0		60	5
7440-69-9	Bismuth	2.29E-06	10481		0
7440-43-9	Cadmium	0		1.26	1

7440-70-2	Calcium	0		4	5
16887-00-6	Chloride	1.05E-05	10481		0
18540-29-9	Chromium	1.06E-04	10481	0	0
16984-48-8	Fluoride	5.55E-06	10481		0
OHDEMAND	Hydroxide OH	1.42E-02	10481		0
7439-89-6	Iron	0		25	5
7439-91-0	Lanthanum	4.25E-05	10481		0
7439-92-1	Lead	0		5.2	5
7439-95-4	Magnesium	0		4.5	5
7439-96-5	Manganese	0		1	1
7439-97-6	Mercury	0		5.2	5
7440-02-0	Nickel	0		48	5
14797-55-8	Nitrate	2.42E-03	10481	0	0
14797-65-0	Nitrite	4.59E-04	10481	0	0
338-70-5	Oxalate	1.96E-03	10481		0
14265-44-2	Phosphate	8.70E-04	10481		0
7440-21-3	Silicon	0		30	5
7440-23-5	Sodium	2.30E-03	10481		0
7440-24-6	Strontium	0		16.1	5
14808-79-8	Sulfate	5.34E-05	10481		0
7440-61-1	Uranium	0		0.6	0.6
7440-67-7	Zirconium	0		500	5
Rad Totals					
Non-Rad Totals					
Cumulative Totals					

Half-Life

Years

12.33
5730
74999
100.1
5.2713
805000
28.149
16.13
1530000
211097
1.01736
14.1
246000
2.7299
15700000
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Report Generated on: 5/25/2005, 8:12:21 AM		
Report Generated by H0098416 (David J. Watson)		
Decision Management Tool Version 4.0.0.37		
241-AX-102	TanksA-AXFarm_Jan01_HTWOS.txt	case02.stp
241-AX-104	TanksA-AXFarm_Jan01_HTWOS.txt	case02.stp
Major Assumptions Used:		
Dilution factor for WMA-A-AX: 40		
Compliance Monitoring Start Year :2001		

Infinity
Infinity
Infinity
Infinity

