Row Name	Sources Included
A-101 Row	None
A-104 Row	241-A-350 Catch Tank 241-A-417 Catch Tank
AX-101 Row	None
AX-102 Row	None

CAS Number	Analyte Name	Concentration	Peak Year	Kd	Kd Bin
		pCi/L (Rad) or mg/L (Non-rad)			
3H	Tritium	0		0	0
14C	Carbon-14	1.62E-05	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	5.02E-03	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	1.82E-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
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	1.99E-08	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	5.68E-08	10481		0
18540-29-9	Chromium	1.09E-06	10481	0	0
7440-48-4	Cobalt	4.41E-11	12032	0.1	0.1
7440-50-8	Copper	0		35	5
16984-48-8	Fluoride	4.98E-09	10481		0
OHDEMAND	Hydroxide OH	1.25E-05	10481		0
7439-89-6	Iron	0		25	5
7439-91-0	Lanthanum	2.75E-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
7440-02-0	Nickel	0		48	5
14797-55-8	Nitrate	1.18E-06	10481	0	0
14797-65-0	Nitrite	7.64E-07	10481	0	0
338-70-5	Oxalate	2.61E-06	10481		0
14265-44-2	Phosphate	4.41E-07	10481		0
7440-21-3	Silicon	0		30	5
7440-22-4	Silver	0		2.7	2
7440-23-5	Sodium	3.04E-06	10481		0
7440-24-6	Strontium	0		16.1	5
14808-79-8	Sulfate	3.56E-07	10481		0
7440-29-1	Thorium	0		1	1
7440-32-6	Titanium	0		1000	5
7440-62-2	Vanadium	0		50	5
7440-66-6	Zinc	0		62	5
7440-67-7	Zirconium	0		500	5

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
14050000000
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

Report Generated on: 5/25/2005, 8:02:12 AM
Report Generated by H0098416 (David J. Watson)
Decision Management Tool Version 4.0.0.37
241-A-350 TanksA-AXFarm_MUST.txt case02.stp

Major Assumptions Used:
Dilution factor for WMA-A-AX: 40
Compliance Monitoring Start Year :2001

Infinity
Infinity
Infinity
Infinity
Infinity
Infinity
Infinity
Infinity
Infinity
Infinity
Infinity
Infinity
Infinity
Infinity
Infinity
Infinity
Infinity
Infinity
Infinity
Infinity
Infinity
Infinity
Infinity
Infinity
Infinity
Infinity
Infinity
Infinity
Infinity
Infinity
Infinity
Infinity
Infinity
Infinity
Infinity
Infinity
Infinity

CAS Number	Analyte Name	Concentration	Peak Year	Kd	Kd Bin
		pCi/L (Rad) or mg/L (Non-rad)			
3H	Tritium	0		0	0
14C	Carbon-14	7.83E-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	2.42E-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	8.77E-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
7440-36-0	Antimony	0		1	1
7440-39-3	Barium	0		60	5
7440-41-7	Beryllium	0		70	5

7440-69-9	Bismuth	9.58E-07	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	2.74E-06	10481		0
18540-29-9	Chromium	5.28E-05	10481	0	0
7440-48-4	Cobalt	2.13E-09	12032	0.1	0.1
7440-50-8	Copper	0		35	5
16984-48-8	Fluoride	2.40E-07	10481		0
OHDEMAND	Hydroxide OH	6.00E-04	10481		0
7439-89-6	Iron	0		25	5
7439-91-0	Lanthanum	1.32E-06	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	5.71E-05	10481	0	0
14797-65-0	Nitrite	3.68E-05	10481	0	0
338-70-5	Oxalate	1.26E-04	10481		0
14265-44-2	Phosphate	2.12E-05	10481		0
7440-21-3	Silicon	0		30	5
7440-22-4	Silver	0		2.7	2
7440-23-5	Sodium	1.47E-04	10481		0
7440-24-6	Strontium	0		16.1	5
14808-79-8	Sulfate	1.72E-05	10481		0
7440-29-1	Thorium	0		1	1
7440-32-6	Titanium	0		1000	5
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	Cancer Risk 01HSRAM Industrial--Groundwater
Years	Risk per pCi/L (Rad) or mg/L (chem)
12.33	0
5730	6.08E-12
74999	0
100.1	0
5.2713	0
805000	0
28.149	0
16.13	0
1530000	0
211097	3.33E-09
1.01736	0
14.1	0
246000	0
2.7299	0
15700000	6.50E-17
2.0619	0
29.999	0
89.997	0
13.33	0
8.5919	0
4.68	0
1600	0
5.7498	0
21.769	0
7340	0
14050000000	0
32759	0
69.799	0
159198	0
245694	0
703700000	0
23420000	0
4468000000	0
2140000	0
87.697	0
24110	0
6563	0
14.35	0
373507	0
432.7	0
7370	0
0.44611	0
28.499	0
18.1	0
Infinity	0
Infinity	0
Infinity	0
Infinity	0

Infinity		0
Infinity		0
Infinity		0
Infinity		0
Infinity		0
Infinity		7.91E-10
Infinity		2.15E-14
Infinity		0
Infinity		0
Infinity		0
Infinity		0
Infinity		0
Infinity		0
Infinity		0
Infinity		0
Infinity		0
Infinity		0
Infinity		0
Infinity		0
Infinity		0
Infinity		0
Infinity		0
Infinity		0
Infinity		0
Infinity		0
Infinity		0
Infinity		0
Infinity		0
Infinity		0
Infinity		0
Infinity		0
Infinity		0
Infinity		0
		3.34E-09
		7.91E-10
	N/A	

Cancer Risk 02HSRAM Residential--Groundwater	Cancer Risk 03HSRAM Agricultural--Groundwater
Risk per pCi/L (Rad) or mg/L (chem)	Risk per pCi/L (Rad) or mg/L (chem)
0	0
4.39E-11	1.87E-10
0	0
0	0
0	0
0	0
0	0
0	0
0	0
8.11E-08	1.14E-07
0	0
0	0
0	0
0	0
3.37E-16	1.72E-15
0	0
0	0
0	0
0	0
0	0
0	0
0	0

	0	0
	0	0
	0	0
	0	0
	0	0
	1.85E-09	1.85E-09
	6.90E-14	6.90E-14
	0	0
	0	0
	0	0
	0	0

Cancer Risk 04HSRAM Recreational--Groundwater Risk per pCi/L (Rad) or mg/L (chem)	Cancer Risk 05All Pathway Farmer--Groundwater Risk per pCi/L (Rad) or mg/L (chem)
0	0
5.12E-13	1.48E-10
0	0
0	0
0	0
0	0
0	0
0	0
0	0
2.80E-10	1.69E-07
0	0
0	0
0	0
0	0
5.48E-18	1.17E-15
0	0
0	0
0	0
0	0
0	0
0	0
0	0

	0	0
	0	0
	0	0
	0	0
	0	0
	3.55E-11	2.74E-09
	1.32E-15	1.02E-13
	0	0
	0	0
	0	0
	0	0

Cancer Risk 06Native American--Groundwater Risk per pCi/L (Rad) or mg/L (chem)	Cancer Risk 07MTCA Method B-- Residential Risk per pCi/L (Rad) or mg/L (chem)
0	0
1.02E-09	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
1.13E-06	0
0	0
0	0
0	0
0	0
7.61E-15	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0

	0	0
	0	0
	0	0
	0	0
	0	0
	3.97E-06	0
	3.83E-11	0
	0	0
	0	0
	0	0
	0

Cancer Risk 08MTCA Method C-- Industrial Risk per pCi/L (Rad) or mg/L (chem)	Hazard Index 01HSRAM Industrial--Groundwater Haz Indx per mg/L
0	0
0	0
0	0

	0	0
	0	0
	0	0
	0	0
	0	0
	0	2.05E-04
	0	2.40E-09
	0	0
	0	3.98E-08
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	3.53E-07
	0	3.64E-06
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0

Hazard Index 02HSRAM Residential--Groundwater	Hazard Index 03HSRAM Agricultural--Groundwater
Haz Indx per mg/L	Haz Indx per mg/L
0	0
0	0
0	0

	0	0
	0	0
	0	0
	0	0
	0	0
	1.23E-03	1.27E-03
	9.79E-09	1.08E-08
	0	0
	2.79E-07	6.25E-07
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	2.27E-06	2.27E-06
	2.34E-05	2.34E-05
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
N/A	N/A	
N/A	N/A	
	1.26E-03	1.30E-03

Hazard Index 04HSRAM Recreational--Groundwater	Hazard Index 05All Pathway Farmer--Groundwater
Haz Indx per mg/L	Haz Indx per mg/L
0	0
0	0
0	0

	0		0
	0		0
	0		0
	0		0
	0		0
	2.24E-05		5.39E-04
	1.57E-10		1.01E-08
	0		0
	4.91E-09		4.41E-07
	0		0
	0		0
	0		0
	0		0
	0		0
	0		0
	0		0
	0		0
	0		0
	0		0
	4.35E-08		7.71E-07
	4.49E-07		7.95E-06
	0		0
	0		0
	0		0
	0		0
	0		0
	0		0
	0		0
	0		0
	0		0
	0		0
	0		0
	0		0
N/A		N/A	
N/A		N/A	
	2.29E-05		5.48E-04

Hazard Index 06Native American--Groundwater	Hazard Index 07MTCA Method B--Residential
Haz Indx per mg/L	Haz Indx per mg/L
0	0
0	0
0	0

	0	0
	0	0
	0	0
	0	0
	0	0
	4.25E-02	1.36E-03
	7.05E-07	1.23E-08
	0	0
	1.05E-06	2.50E-07
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	1.57E-06	2.23E-06
	1.62E-05	2.30E-05
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
N/A	N/A	
N/A	N/A	
	4.25E-02	1.38E-03

Hazard Index 08MTCA Method C--Industrial	Groundwater Dose 01All Pathway Farmer -- Groundwater
Haz Indx per mg/L	mrem per pCi/L
0	0
0	3.79E-06
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	4.23E-04
0	0
0	0
0	0
0	0
0	4.61E-11
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0

	0	0
	0	0
	0	0
	0	0
	0	0
	5.43E-04	0
	4.92E-09	0
	0	0
	1.14E-07	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	1.02E-06	0
	1.05E-05	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
N/A	N/A	
N/A	N/A	
	5.55E-04	4.27E-04

Groundwater Dose 02Native American -- Groundwater mrem per pCi/L	Groundwater Dose HSRAM Agricultural -- Groundwater mrem per pCi/L
0	0
8.59E-06	6.78E-06
0	0
0	0
0	0
0	0
0	0
0	0
0	0
1.02E-03	1.47E-03
0	0
0	0
0	0
0	0
1.08E-10	6.71E-11
0	0
0	0
0	0
0	0
0	0
0	0
0	0

	0		0
	0		0
	0		0

Groundwater Dose HSRAM Recreational -- Groundwater mrem per pCi/L	Groundwater Dose HSRAM Residential -- Groundwater mrem per pCi/L
0	0
2.30E-08	1.80E-06
0	0
0	0
0	0
0	0
0	0
0	0
0	0
4.95E-06	1.07E-03
0	0
0	0
0	0
0	0
3.40E-13	2.02E-11
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0

	0		0
	0		0
	0		0

C4 EDE

01C4 EDE Limit (Beta-Photon) Residential

mrem

0
9.78E-07
0
0
0
0
0
0
0
2.55E-04
0
0
0
0
1.67E-11
0
0
0
0
0
0
0

0
0
0

C4 EDE

02C4 EDE Limit (Beta-Photon) Industrial mrem		MCL Limit Beta/Photon	CAS	Name
0		0	1	1
3.35E-07		1.57E-06	3	3
0		0	15	15
0		0	16	16
0		0	17	17
0	NDF		18	18
0		0	20	20
0		0	22	22
0		0	25	25
8.74E-05		1.07E-03	26	26
0		0	27	27
0	NDF		31	31
0	NDF		34	34
0		0	35	35
5.72E-12		3.51E-10	37	37
0		0	39	39
0		0	41	41
0	NDF		44	44
0		0	46	46
0		0	47	47
0		0	48	48
0	NDF		58	58
0	NDF		59	59
0	NDF		60	60
0	NDF		62	62
0	NDF		64	64
0	NDF		65	65
0	NDF		66	66
0	NDF		67	67
0	NDF		68	68
0	NDF		69	69
0	NDF		70	70
0	NDF		71	71
0	NDF		72	72
0	NDF		74	74
0	NDF		75	75
0	NDF		76	76
0		0	77	77
0	NDF		78	78
0	NDF		80	80
0	NDF		82	82
0	NDF		83	83
0	NDF		84	84
0	NDF		85	85
0	NDF		97	97
0	NDF		100	100
0	NDF		102	102
0	NDF		103	103

	0	NDF	104	104
	0	NDF	105	105
	0	NDF	107	107
	0	NDF	108	108
	0	NDF	110	110
	0	NDF	111	111
	0	NDF	113	114
	0	NDF	114	115
	0	NDF	118	119
	0	NDF	121	122
	0	NDF	122	123
	0	NDF	123	124
	0	NDF	124	125
	0	NDF	125	126
	0	NDF	126	127
	0	NDF	127	128
	0	NDF	129	130
	0	NDF	130	131
	0	NDF	132	133
	0	NDF	134	135
	0	NDF	135	136
	0	NDF	136	137
	0	NDF	138	139
	0	NDF	147	148
	0	NDF	148	149
	0	NDF	149	150
	0	NDF	150	151
	0	NDF	151	152
	0	NDF	158	159
	0	NDF	160	161
	0	NDF	164	164
	0	NDF	167	167
	0	NDF	168	168
N/A		N/A		
N/A		N/A		
	8.77E-05		1.08E-03	

Non-Detect

Report Generated on: 5/25/2005, 8:02:51 AM
Report Generated by H0098416 (David J. Watson)
Decision Management Tool Version 4.0.0.37
241-A-417 TanksA-AXFarm_MUST.txt case02.stp

Major Assumptions Used:
Dilution factor for WMA-A-AX: 40
Compliance Monitoring Start Year :2001

CAS Number	Analyte Name	Concentration	Peak Year	Kd	Kd Bin
		pCi/L (Rad) or mg/L (Non-rad)			
3H	Tritium	0		0	0
14C	Carbon-14	7.99E-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	2.47E-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	8.95E-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
7440-36-0	Antimony	0		1	1
7440-39-3	Barium	0		60	5
7440-41-7	Beryllium	0		70	5

7440-69-9	Bismuth	9.78E-07	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	2.79E-06	10481		0
18540-29-9	Chromium	5.39E-05	10481	0	0
7440-48-4	Cobalt	2.17E-09	12032	0.1	0.1
7440-50-8	Copper	0		35	5
16984-48-8	Fluoride	2.45E-07	10481		0
OHDEMAND	Hydroxide OH	6.13E-04	10481		0
7439-89-6	Iron	0		25	5
7439-91-0	Lanthanum	1.35E-06	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	5.83E-05	10481	0	0
14797-65-0	Nitrite	3.76E-05	10481	0	0
338-70-5	Oxalate	1.28E-04	10481		0
14265-44-2	Phosphate	2.17E-05	10481		0
7440-21-3	Silicon	0		30	5
7440-22-4	Silver	0		2.7	2
7440-23-5	Sodium	1.50E-04	10481		0
7440-24-6	Strontium	0		16.1	5
14808-79-8	Sulfate	1.75E-05	10481		0
7440-29-1	Thorium	0		1	1
7440-32-6	Titanium	0		1000	5
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	Cancer Risk 01HSRAM Industrial--Groundwater
Years	Risk per pCi/L (Rad) or mg/L (chem)
12.33	0
5730	6.20E-12
74999	0
100.1	0
5.2713	0
805000	0
28.149	0
16.13	0
1530000	0
211097	3.40E-09
1.01736	0
14.1	0
246000	0
2.7299	0
15700000	6.64E-17
2.0619	0
29.999	0
89.997	0
13.33	0
8.5919	0
4.68	0
1600	0
5.7498	0
21.769	0
7340	0
14050000000	0
32759	0
69.799	0
159198	0
245694	0
703700000	0
23420000	0
4468000000	0
2140000	0
87.697	0
24110	0
6563	0
14.35	0
373507	0
432.7	0
7370	0
0.44611	0
28.499	0
18.1	0
Infinity	0
Infinity	0
Infinity	0
Infinity	0

Infinity		0
Infinity		0
Infinity		0
Infinity		0
Infinity		0
Infinity		8.07E-10
Infinity		2.19E-14
Infinity		0
Infinity		0
Infinity		0
Infinity		0
Infinity		0
Infinity		0
Infinity		0
Infinity		0
Infinity		0
Infinity		0
Infinity		0
Infinity		0
Infinity		0
Infinity		0
Infinity		0
Infinity		0
Infinity		0
Infinity		0
Infinity		0
Infinity		0
Infinity		0
Infinity		0
Infinity		0
Infinity		0
Infinity		0
Infinity		0
		3.41E-09
		8.07E-10
	N/A	

Cancer Risk 02HSRAM Residential--Groundwater	Cancer Risk 03HSRAM Agricultural--Groundwater
Risk per pCi/L (Rad) or mg/L (chem)	Risk per pCi/L (Rad) or mg/L (chem)
0	0
4.48E-11	1.91E-10
0	0
0	0
0	0
0	0
0	0
0	0
0	0
8.28E-08	1.16E-07
0	0
0	0
0	0
0	0
3.44E-16	1.75E-15
0	0
0	0
0	0
0	0
0	0
0	0
0	0

	0	0
	0	0
	0	0
	0	0
	0	0
	1.89E-09	1.89E-09
	7.04E-14	7.04E-14
	0	0
	0	0
	0	0
	0	0

Cancer Risk 04HSRAM Recreational--Groundwater Risk per pCi/L (Rad) or mg/L (chem)	Cancer Risk 05All Pathway Farmer--Groundwater Risk per pCi/L (Rad) or mg/L (chem)
0	0
5.22E-13	1.52E-10
0	0
0	0
0	0
0	0
0	0
0	0
0	0
2.86E-10	1.72E-07
0	0
0	0
0	0
0	0
5.59E-18	1.19E-15
0	0
0	0
0	0
0	0
0	0
0	0
0	0

	0	0
	0	0
	0	0
	0	0
	0	0
	3.63E-11	2.79E-09
	1.35E-15	1.04E-13
	0	0
	0	0
	0	0
	0	0

Cancer Risk 06Native American--Groundwater Risk per pCi/L (Rad) or mg/L (chem)	Cancer Risk 07MTCA Method B-- Residential Risk per pCi/L (Rad) or mg/L (chem)
0	0
1.05E-09	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
1.15E-06	0
0	0
0	0
0	0
0	0
7.76E-15	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0

	0	0
	0	0
	0	0
	0	0
	0	0
	4.05E-06	0
	3.91E-11	0
	0	0
	0	0
	0	0
	0

Cancer Risk 08MTCA Method C-- Industrial Risk per pCi/L (Rad) or mg/L (chem)	Hazard Index 01HSRAM Industrial--Groundwater Haz Indx per mg/L
0	0
0	0
0	0

	0	0
	0	0
	0	0
	0	0
	0	0
	0	2.09E-04
	0	2.45E-09
	0	0
	0	4.06E-08
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	3.60E-07
	0	3.72E-06
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0

Hazard Index 02HSRAM Residential--Groundwater	Hazard Index 03HSRAM Agricultural--Groundwater
Haz Indx per mg/L	Haz Indx per mg/L
0	0
0	0
0	0

	0	0
	0	0
	0	0
	0	0
	0	0
	1.26E-03	1.30E-03
	9.99E-09	1.10E-08
	0	0
	2.85E-07	6.38E-07
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	2.32E-06	2.32E-06
	2.39E-05	2.39E-05
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
N/A	N/A	
N/A	N/A	
	1.29E-03	1.33E-03

Hazard Index 04HSRAM Recreational--Groundwater	Hazard Index 05All Pathway Farmer--Groundwater
Haz Indx per mg/L	Haz Indx per mg/L
0	0
0	0
0	0

	0	0
	0	0
	0	0
	0	0
	0	0
	2.28E-05	5.50E-04
	1.61E-10	1.03E-08
	0	0
	5.01E-09	4.50E-07
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	4.44E-08	7.87E-07
	4.58E-07	8.12E-06
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
N/A	N/A	
N/A	N/A	
	2.34E-05	5.60E-04

Hazard Index 06Native American--Groundwater	Hazard Index 07MTCA Method B--Residential
Haz Indx per mg/L	Haz Indx per mg/L
0	0
0	0
0	0

	0	0
	0	0
	0	0
	0	0
	0	0
	4.34E-02	1.39E-03
	7.19E-07	1.26E-08
	0	0
	1.07E-06	2.55E-07
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	1.60E-06	2.28E-06
	1.65E-05	2.35E-05
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
N/A	N/A	
N/A	N/A	
	4.34E-02	1.41E-03

Hazard Index 08MTCA Method C--Industrial Haz Indx per mg/L	Groundwater Dose 01All Pathway Farmer -- Groundwater mrem per pCi/L
0	0
0	3.87E-06
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	4.32E-04
0	0
0	0
0	0
0	0
0	4.70E-11
0	0
0	0
0	0
0	0
0	0
0	0
0	0

	0	0
	0	0
	0	0
	0	0
	0	0
	5.54E-04	0
	5.02E-09	0
	0	0
	1.17E-07	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	1.04E-06	0
	1.07E-05	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
N/A	N/A	
N/A	N/A	
	5.66E-04	4.36E-04

Groundwater Dose 02Native American -- Groundwater mrem per pCi/L	Groundwater Dose HSRAM Agricultural -- Groundwater mrem per pCi/L
0	0
8.77E-06	6.92E-06
0	0
0	0
0	0
0	0
0	0
0	0
0	0
1.04E-03	1.50E-03
0	0
0	0
0	0
0	0
1.10E-10	6.85E-11
0	0
0	0
0	0
0	0
0	0
0	0
0	0

	0		0
	0		0
	0		0

Groundwater Dose HSRAM Recreational -- Groundwater mrem per pCi/L	Groundwater Dose HSRAM Residential -- Groundwater mrem per pCi/L
0	0
2.34E-08	1.83E-06
0	0
0	0
0	0
0	0
0	0
0	0
0	0
5.05E-06	1.09E-03
0	0
0	0
0	0
0	0
3.47E-13	2.06E-11
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0

	0		0
	0		0
	0		0

C4 EDE

01C4 EDE Limit (Beta-Photon) Residential

mrem

0
9.98E-07
0
0
0
0
0
0
0
2.60E-04
0
0
0
0
1.70E-11
0
0
0
0
0
0
0

0
0
0

C4 EDE

02C4 EDE Limit (Beta-Photon) Industrial mrem		MCL Limit Beta/Photon	CAS	Name
0		0	1	1
3.42E-07		1.60E-06	3	3
0		0	15	15
0		0	16	16
0		0	17	17
0	NDF		18	18
0		0	20	20
0		0	22	22
0		0	25	25
8.92E-05		1.10E-03	26	26
0		0	27	27
0	NDF		31	31
0	NDF		34	34
0		0	35	35
5.84E-12		3.58E-10	37	37
0		0	39	39
0		0	41	41
0	NDF		44	44
0		0	46	46
0		0	47	47
0		0	48	48
0	NDF		58	58
0	NDF		59	59
0	NDF		60	60
0	NDF		62	62
0	NDF		64	64
0	NDF		65	65
0	NDF		66	66
0	NDF		67	67
0	NDF		68	68
0	NDF		69	69
0	NDF		70	70
0	NDF		71	71
0	NDF		72	72
0	NDF		74	74
0	NDF		75	75
0	NDF		76	76
0		0	77	77
0	NDF		78	78
0	NDF		80	80
0	NDF		82	82
0	NDF		83	83
0	NDF		84	84
0	NDF		85	85
0	NDF		97	97
0	NDF		100	100
0	NDF		102	102
0	NDF		103	103

	0	NDF	104	104
	0	NDF	105	105
	0	NDF	107	107
	0	NDF	108	108
	0	NDF	110	110
	0	NDF	111	111
	0	NDF	113	114
	0	NDF	114	115
	0	NDF	118	119
	0	NDF	121	122
	0	NDF	122	123
	0	NDF	123	124
	0	NDF	124	125
	0	NDF	125	126
	0	NDF	126	127
	0	NDF	127	128
	0	NDF	129	130
	0	NDF	130	131
	0	NDF	132	133
	0	NDF	134	135
	0	NDF	135	136
	0	NDF	136	137
	0	NDF	138	139
	0	NDF	147	148
	0	NDF	148	149
	0	NDF	149	150
	0	NDF	150	151
	0	NDF	151	152
	0	NDF	158	159
	0	NDF	160	161
	0	NDF	164	164
	0	NDF	167	167
	0	NDF	168	168
N/A		N/A		
N/A		N/A		
	8.95E-05		1.10E-03	

Non-Detect

Report Generated on: 5/25/2005, 8:03:17 AM
Report Generated by H0098416 (David J. Watson)
Decision Management Tool Version 4.0.0.37

241-A-417	TanksA-AXFarm_MUST.txt	case02.stp
241-A-350	TanksA-AXFarm_MUST.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