

LIQUID WASTE DISCHARGES OF 1995

Quarter	Sample No.	Date of Discharge	Gross α $\mu\text{Ci/cc}$	H-3 Conc. $\mu\text{Ci/cc}$	Gross β/γ $\mu\text{Ci/cc}$	Co-60	Volume Discharged (Gals)	H-3 μCi	Gross α μCi	Gross β/γ μCi	Co-60 μCi	H-3 μCi	Gross β/γ μCi	Co-60 μCi	
						Gam. Spec. $\mu\text{Ci/cc}$									
1 st	95-01	1/17/95	0.000E+00	1.590E-04	1.000E-08	5.570E-07	2600	1564.915	0.000	0.098	5.481				
		1/17/95	0.000E+00	1.868E-04	2.000E-08	4.100E-07	1900	1343.016	0.000	0.144	2.949				
	95-02	2/20/95	0.000E+00	5.649E-05	4.900E-09	5.160E-07	3700	791.158	0.000	0.069	7.226				
		2/20/95	0.000E+00	5.584E-05	4.900E-09	5.525E-07	1300	274.754	0.000	0.024	2.719				
	95-03	3/24/95	0.000E+00	2.251E-04	0.000E+00	0.000E+00	2700	2300.231	0.000	0.000	0.000				
		3/24/95	0.000E+00	2.155E-04	1.434E-08	3.560E-07	2400	1958.018	0.000	0.130	3.234				
2 nd	95-04	5/10/95	4.669E-09	1.917E-04	7.385E-08	0.000E+00	3700	2684.016	0.065	1.034	0.000				
		5/10/95	0.000E+00	1.897E-04	2.600E-08	0.000E+00	1300	933.186	0.000	0.128	0.000				
	95-05	6/13/95	0.000E+00	8.307E-05	0.000E+00	0.000E+00	3800	1194.812	0.000	0.000	0.000				
3 rd	95-06	6/13/95	0.000E+00	8.698E-05	4.388E-08	0.000E+00	1500	493.805	0.000	0.249	0.000	17477.260	1.873	21.610	
		7/5/95	0.000E+00	4.033E-05	1.810E-09	0.000E+00	1600	244.210	0.000	0.011	0.000				
	95-07	7/5/95	0.000E+00	4.403E-05	0.000E+00	0.000E+00	1400	233.294	0.000	0.000	0.000	17954.764	1.884	21.610	
		7/11/95	0.000E+00	1.211E-04	0.000E+00	0.000E+00	2500	1145.471	0.000	0.000	0.000				
	95-08	7/11/95	0.000E+00	9.399E-05	5.660E-09	0.000E+00	1500	533.640	0.000	0.032	0.000	19633.875	1.916	21.610	
		7/25/95	0.000E+00	1.153E-04	8.490E-09	0.000E+00	3000	1309.559	0.000	0.096	0.000				
	95-09	7/25/95	0.000E+00	8.948E-05	0.000E+00	0.000E+00	2000	677.380	0.000	0.000	0.000	21620.815	2.012	21.610	
		8/2/95	0.000E+00	4.406E-05	0.000E+00	0.000E+00	3300	550.362	0.000	0.000	0.000				
	95-10	8/2/95	0.000E+00	3.277E-05	0.000E+00	0.000E+00	1700	210.831	0.000	0.000	0.000	22382.008	2.012	21.610	
		8/17/95	5.46E-09	4.407E-05	9.162E-09	0.000E+00	2900	483.689	0.060	0.101	0.000				
	4 th	95-11	8/17/95	2.01E-09	3.705E-05	2.148E-08	0.000E+00	1440	201.923	0.011	0.117	0.000	23067.621	2.230	21.610
			9/5/95	0.000E+00	8.033E-05	0.000E+00	0.000E+00	2860	869.577	0.000	0.000	0.000			
95-12		9/6/95	0.000E+00	8.003E-05	7.714E-09	0.000E+00	2140	648.236	0.000	0.062	0.000	24585.433	2.293	21.610	
		9/18/95	0.000E+00	1.438E-04	1.639E-08	0.000E+00	2650	1442.007	0.000	0.164	0.000				
95-13		9/19/95	0.000E+00	1.470E-04	2.314E-08	0.000E+00	2350	1307.737	0.000	0.206	0.000	27335.177	2.663	21.610	
		10/12/95	1.14E-09	5.679E-05	2.155E-08	0.000E+00	3420	735.188	0.015	0.279	0.000				
95-14		10/12/95	0.000E+00	6.137E-05	1.116E-08	0.000E+00	1580	367.013	0.000	0.067	0.000	28437.378	3.009	21.610	
95-15	11/13/95	11/13/95	0.000E+00	1.903E-05	1.369E-08	0.000E+00	2600	187.317	0.000	0.135	0.000				
		11/14/95	7.96E-09	1.446E-05	5.179E-08	0.000E+00	2400	131.392	0.072	0.470	0.000	28756.087	3.614	21.610	
	12/12/95	0.000E+00	1.066E-05	5.877E-09	0.000E+00	2880	116.177	0.000	0.064	0.000	28872.265	3.678	21.610		

Yearly Total (μCi) = 24932.917 0.223 3.681 21.609
Yearly Total (Ci) = 2.493E-02 2.233E-07 3.681E-06 2.161E-05
AVG Yearly Conc. $\mu\text{Ci/cc}$ = 9.530E-05 8.535E-10 1.407E-08 8.260E-08
Tech Spec $\mu\text{Ci/cc}$ = 1.000E-02 3.000E-06 3.000E-06 3.000E-05
% Tech Spec = 0.95 0.03 0.47 0.28

Ga Tech Dilution factor (cc/Qtr) = 2.743E+11

Total Activity Released / Quarter for 1995

	H-3 μCi	Gross α μCi	Gross β/γ μCi	Co-60 μCi
1st QTR	8232.093	0.0000	0.4652	21.6088
2nd QTR	5305.819	0.0654	1.4113	0.0000
3rd QTR	9857.917	0.0709	0.7898	0.0000
4th QTR	1537.087	0.0870	1.0149	0.0000
Yearly Total =	24932.917	0.2233	3.6813	21.6088

Quarterly Volume Discharged from Suspect Waste

	Gals	cc
1st QTR	1.460E+04	5.526E+07
2nd QTR	1.030E+04	3.899E+07
3rd QTR	3.134E+04	1.186E+08
4th QTR	1.288E+04	4.875E+07
Yearly Total =	6.912E+04	2.616E+08

**Quarterly Average Release
Based on the Ga Tech Dilution factor for 1995**

	H-3 μCi/cc	Gross α μCi/cc	Gross β/γ μCi/cc	Co-60 μCi/cc
1st QTR	3.001E-08	0.00E+00	1.696E-12	7.878E-11
2nd QTR	1.934E-08	2.384E-13	5.145E-12	0.00E+00
3rd QTR	3.594E-08	2.584E-13	2.879E-12	0.00E+00
4th QTR	5.604E-09	3.173E-13	3.700E-12	0.00E+00

**Quarterly Average Release
Based on the Suspect Waste quarterly volume discharged**

	H-3 μCi/cc	Gross α μCi/cc	Gross β/γ μCi/cc	Co-60 μCi/cc
1st QTR	1.490E-04	0.00E+00	8.419E-09	3.910E-07
2nd QTR	1.361E-04	1.677E-09	3.620E-08	0.00E+00
3rd QTR	8.310E-05	5.976E-10	6.659E-09	0.00E+00
4th QTR	3.153E-05	1.785E-09	2.082E-08	0.00E+00

Maximum quarterly Concentration

	H-3 μCi/cc	Gross α μCi/cc	Gross β/γ μCi/cc	Co-60 μCi/cc
1st QTR	2.251E-04	0.00E+00	2.000E-08	5.570E-07
2nd QTR	1.917E-04	4.669E-09	7.385E-08	0.00E+00
3rd QTR	1.470E-04	5.460E-09	2.314E-08	0.00E+00
4th QTR	6.137E-05	7.960E-09	5.179E-08	0.00E+00

Note: Effective 3/28/95, all data reporting < MDA for Co-60 is an automatic zero