

4.0 EXTERNAL RADIATION

External radiation fields were monitored near facilities and waste handling, storage, and disposal sites to measure and assess the impacts of operations. Thermoluminescent Dosimeter (TLD) results were used at numerous fixed locations to gather dose rate information over extended periods of time, typically three months.

In 2004, there were 135 TLD locations collecting external radiation information. At the 100-N Area, the dosimeter results showed a decrease of approximately 19% from 2003 levels. In the 100-K Area, and in the 200 East and 200 West Areas, there were significant increases in the annual average dose rate in 2004. All were attributable to the transfer and storage of radioactive materials associated with cleanup activities in the K Basins, the A Tank Farm and the S Tank Farm, respectively. At the remaining operational areas, the external radiation levels during 2004 were $\pm 4\%$ compared to 2003 levels. The number of TLD locations and a summary comparing the 2003 and 2004 TLD results for each of the operational areas is provided in Table 4-1. Maps illustrating TLD locations in 2004 are provided in Figures 4-1 through 4-10. Individual TLD results for 2004 are provided in Table 4-2.

Table 4-1. TLD Results (mrem/yr ± 2 standard deviations) for 2003 and 2004.

Area	Number of Dosimeters, 2004	2003		2004		% Change ^c
		Maximum ^a	Mean ^b	Maximum ^a	Mean ^b	
100-B/C	4	88 \pm 6	85 \pm 5	88 \pm 7	86 \pm 5	<1%
100-K	11	523 \pm 1060	162 \pm 304	1,352 \pm 3329	229 \pm 748	41%
100-KR-1	5	103 \pm 11	95 \pm 15	104 \pm 10	97 \pm 15	2%
100-N	14	993 \pm 71	261 \pm 485	475 \pm 76	210 \pm 257	-19%
200-East Area	42	482 \pm 225	118 \pm 138	3,995 \pm 11797	200 \pm 1202	69%
200-West Area	24	189 \pm 21	106 \pm 52	3,032 \pm 9915	225 \pm 1196	112%
200-North (212-R)	1	3,400 \pm 131	3,000 \pm 570	3,047 \pm 472	2,867 \pm 295	-4%
300 Area	8	112 \pm 2	92 \pm 24	112 \pm 12	92 \pm 25	<1%
300 TEDF ^d	6	90 \pm 12	85 \pm 5	87 \pm 5	85 \pm 4	<1%
300-FF-2	6	Not Applicable: new for 2004		91 \pm 40	87 \pm 5	Not Applicable
400 Area	7	85 \pm 7	81 \pm 5	85 \pm 6	83 \pm 2	3%
CVDF ^e	4	82 \pm 4	80 \pm 6	258 \pm 445	177 \pm 175	122%
ERDF ^f	3	99 \pm 11	94 \pm 11	100 \pm 22	95 \pm 8	1%

^aMaximum values are \pm analytical uncertainty

^b ± 2 standard deviations.

^cNumbers indicate a decrease (-) or increase from the 2003 mean.

^dTEDF = 300 Area Treated Effluent Disposal Facility.

^eCVDF = Cold Vacuum Drying Facility (100-K Area).

^fERDF = Environmental Restoration Disposal Facility.

Noteworthy observations in dose rate monitoring during 2004 included the following:

- In the 100-K Area, compared to 2003, there was an overall 41% increase in the 2004 annual average dose rate. As with a similar increase observed during 2003, the 2004 increase was primarily due to elevated dose rates at two monitoring locations situated near radioactive materials transfer and storage areas; one location was near the 105-K East Area spent nuclear fuel storage load-out station and the other was near the 105-K West spent nuclear fuel

storage basin. Dose rates at the 105-K East Area location, which were elevated during the first half of the year as spent nuclear fuel was removed from the storage basin, decreased by year's end to a level slightly higher than typical site background levels. Dose rates at the 105-K West location, which had declined during the first quarter of the year from levels measured at the end of 2003, steadily decreased during the next two quarters of 2004 and then increased significantly during the fourth quarter when radioactive materials destined for disposal were temporarily stored in outdoor staging areas. The quarterly dose rate levels from these locations as compared to the 100-K Area dose rate average are shown in graph form in Figure 4-11.

- Dosimeter monitoring sites around the 100-K Area's Cold Vacuum Drying Facility showed a significant annual dose rate increase of 122% in 2004 compared to 2003. Dose rates at all four locations began increasing noticeably at mid-year when radioactive materials associated with cleanup activities in the K Basins began to be stored on the east side of the facility. As addition of these materials continued, dose rates at two monitoring locations situated on the east side of the facility continued to increase significantly during the last half of the year, while the levels observed at two locations on the west side showed a more moderate, though continual increase during the third and fourth quarters. The quarterly dose rate levels from the four dosimeter locations at the facility are shown in graph form in Figure 4-12.
- In the 100-N Area, direct radiation levels were again highest near the two retired facilities that contained or received liquid effluent from N Reactor. These facilities being the 116-N-1 (1301-N) and 116-N-3 (1325-N) liquid waste disposal facilities. Three of the five monitoring locations near the retired 116-N-1 continued to show dose rates noticeably higher than the overall average dose rates observed at the 100-N area. Two of these locations showed dose rate levels approximately 30% higher in 2004 than those measured in 2003. These increases may be ascribed to the removal and transfer of radioactively contaminated material from selected portions of the crib and trench soil columns in 2004. Figure 4-13 provides trend plots of quarterly dose rates from these three 116-N-1 monitoring locations. The 2004 annual average dose rate levels at the three monitoring locations at the 116-N-3 Facility (1325-N), although considerably higher than all other locations in the 100-N area, showed a decrease of approximately 35% from 2003 levels. This continued reduction in dose rates was directly attributable to source material removal activities that began in July 2000. Figure 4-14 provides trend plots of quarterly dose rates from these three 116-N-3 monitoring locations. Significantly reduced were the dose rates near the retired 1304-N Emergency Dump Tank, which was decontaminated and demolished during 2004. Average dose rates at the two nearby monitoring locations were approximately 50% lower in 2004 than they were in 2003.
- The highest dose rates in the 200 Areas were measured near waste handling facilities. One such location in the 200 East Area and another in the 200 West Area exhibited noticeably high dose rates during the second quarter of 2004. The 200 East Area location was at the A Tank Farm and the 200 West Area location was at the S Tank Farm. By year's end, dose rates at both locations returned to typical site background levels. The overall effect, primarily from these two elevated-dose rate locations, was that average dose rates measured in the 200 East and 200 West Areas in 2004 were, respectively, 69% and 112% higher than the 2003 average levels. Figure 4-15 provides trend plots of quarterly dose rate levels from these two monitoring locations as well as average dose rate levels for both the 200 East and 200 West Areas.

Figure 4-1. 100-B/C Area TLD Locations.

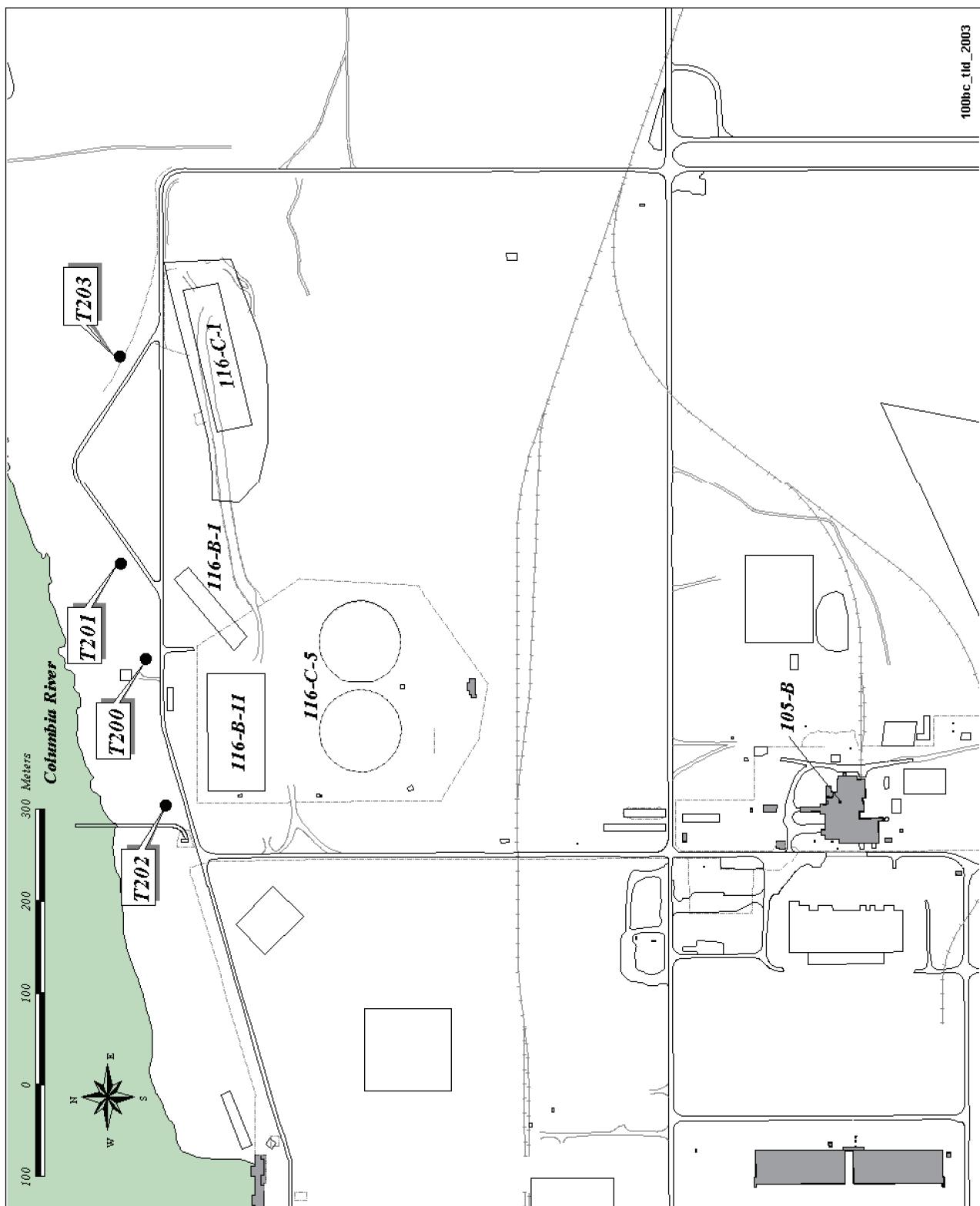


Figure 4-2. 100-K Area, Cold Vacuum Drying Facility and 100-KR-1 TLD Locations.

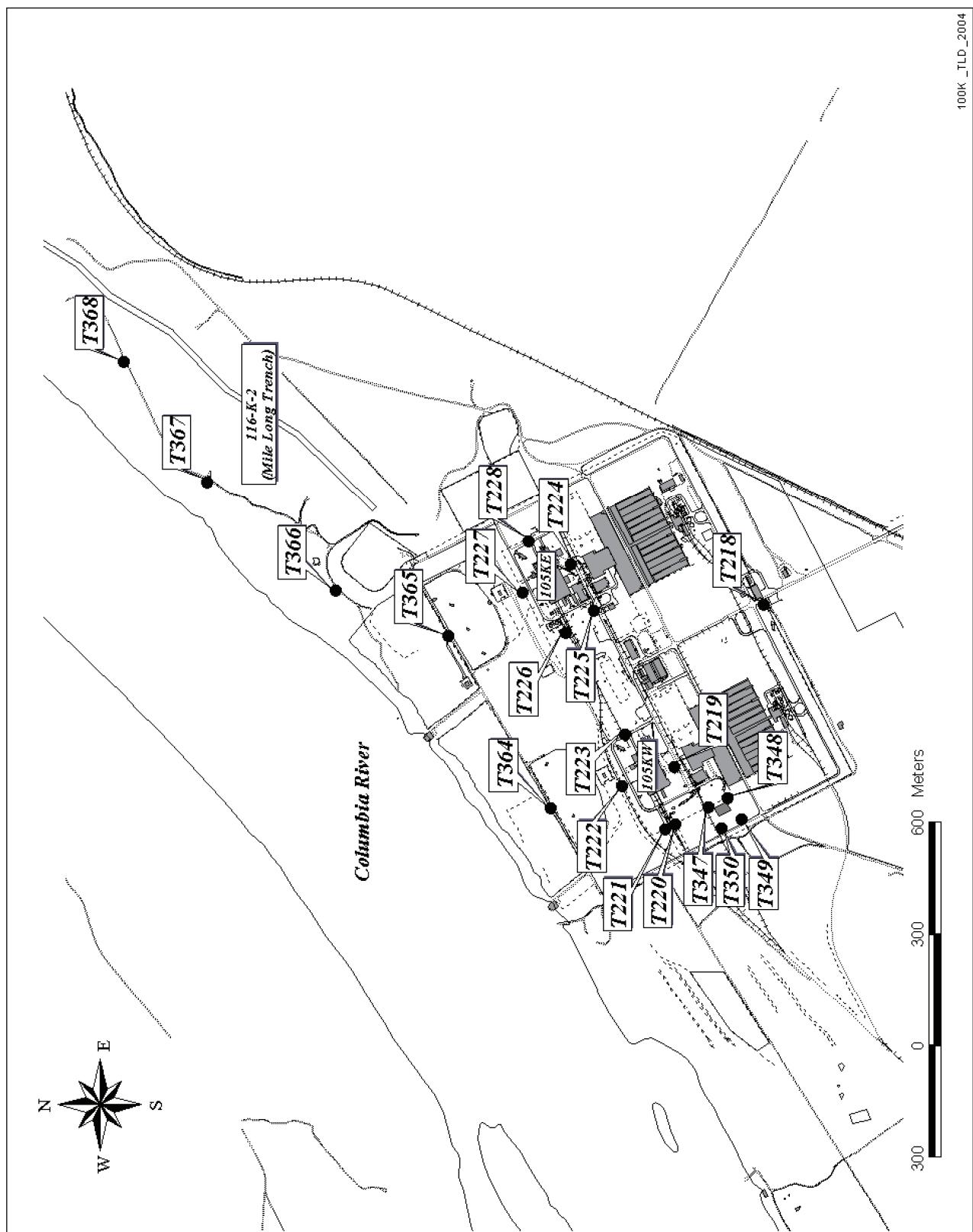


Figure 4-3. 100-N Area TLD Locations.

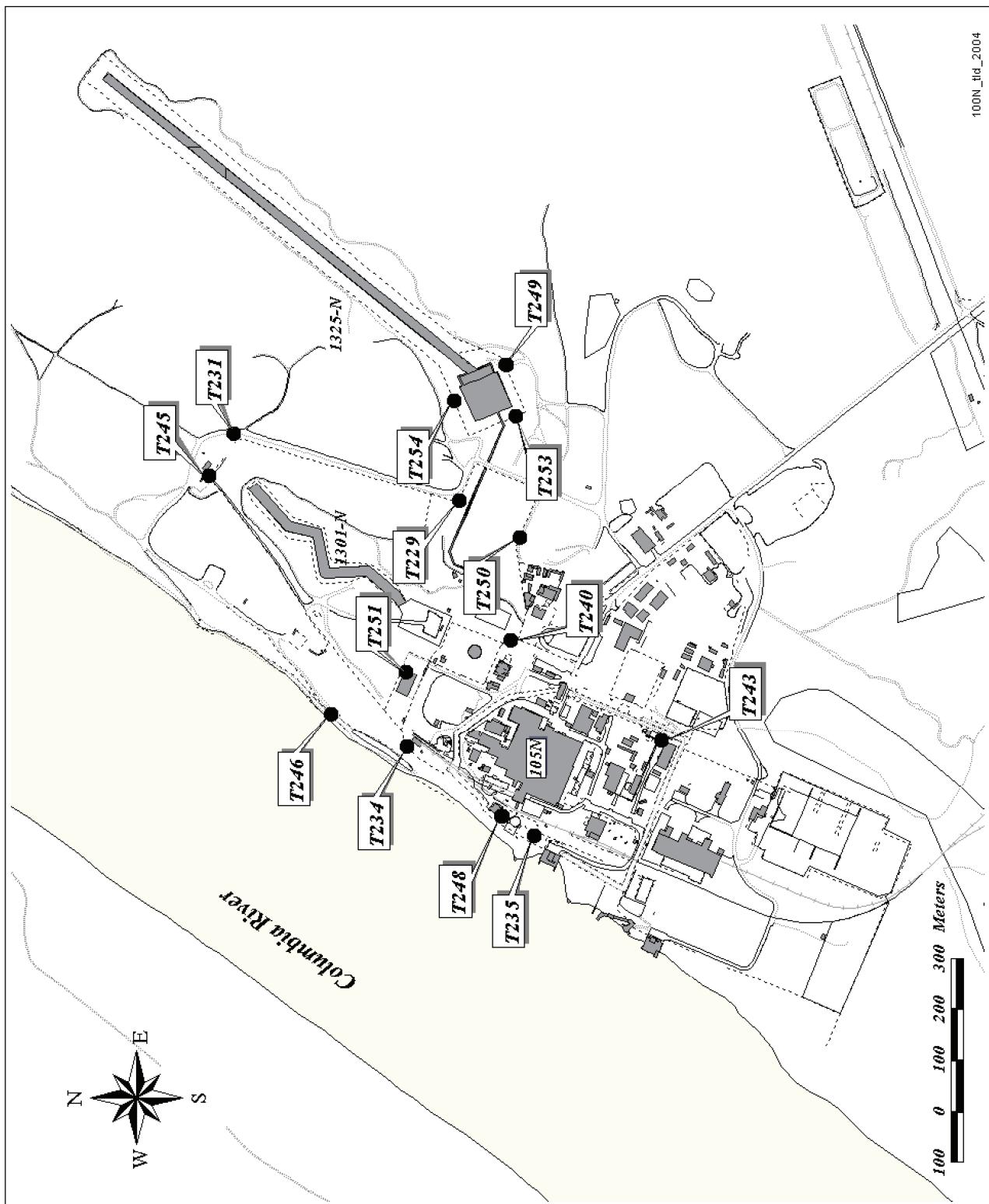


Figure 4-4. 200 East Area TLD Locations.

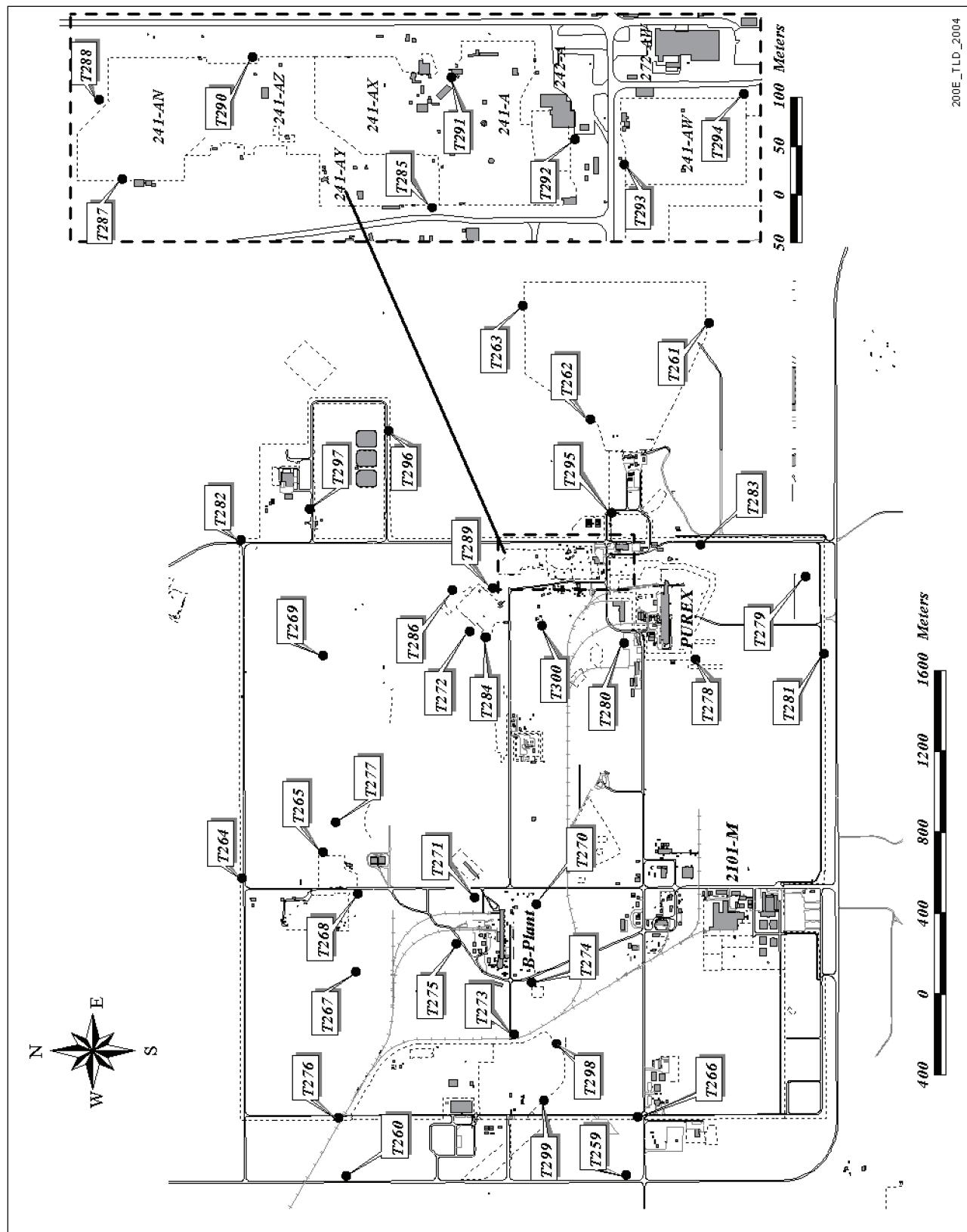


Figure 4-5. 200 West Area TLD Locations.

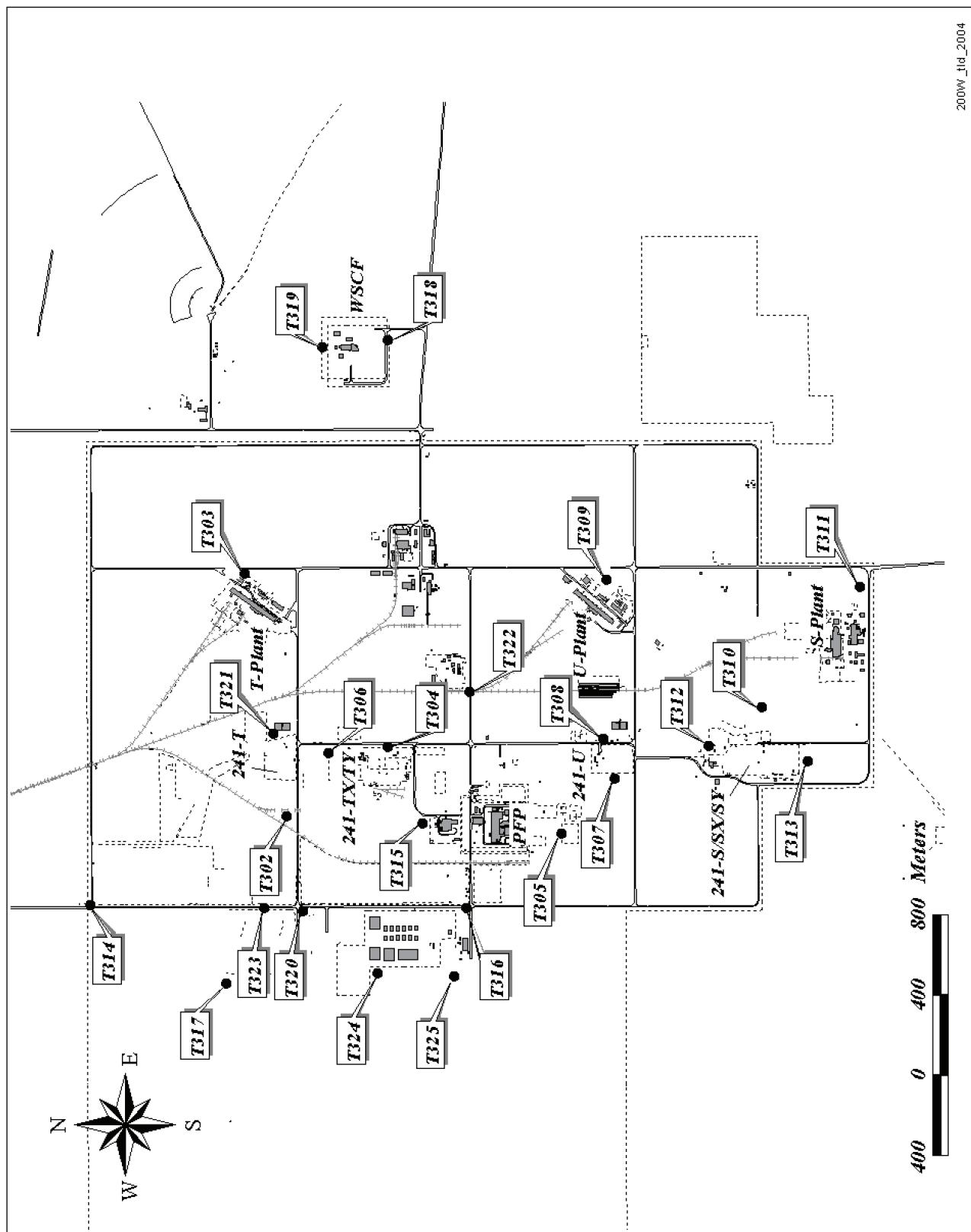


Figure 4-6. 200 North Area TLD Location.

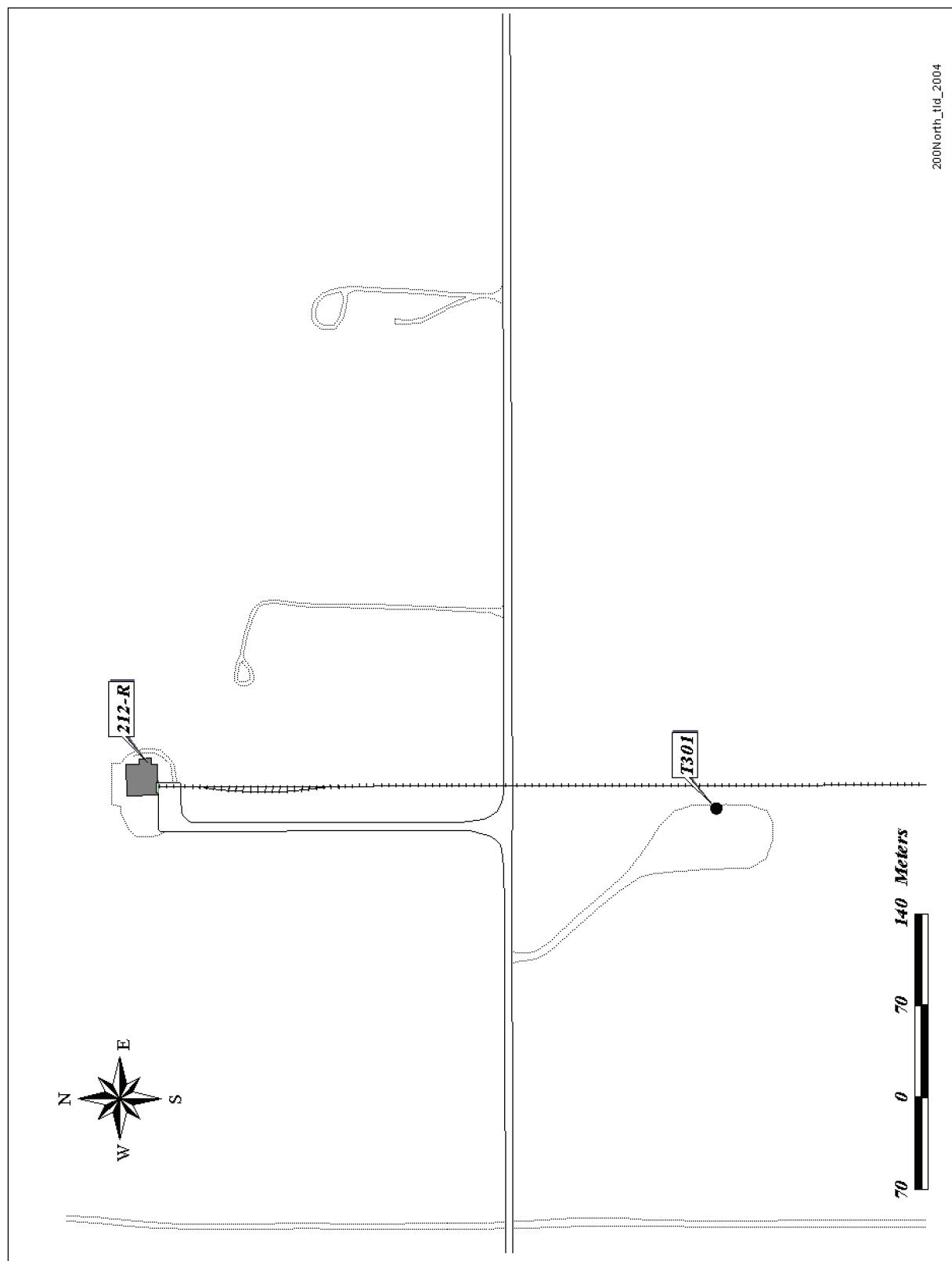


Figure 4-7. 300 Area Treated Effluent Disposal Facility and 300 Area TLD Locations.

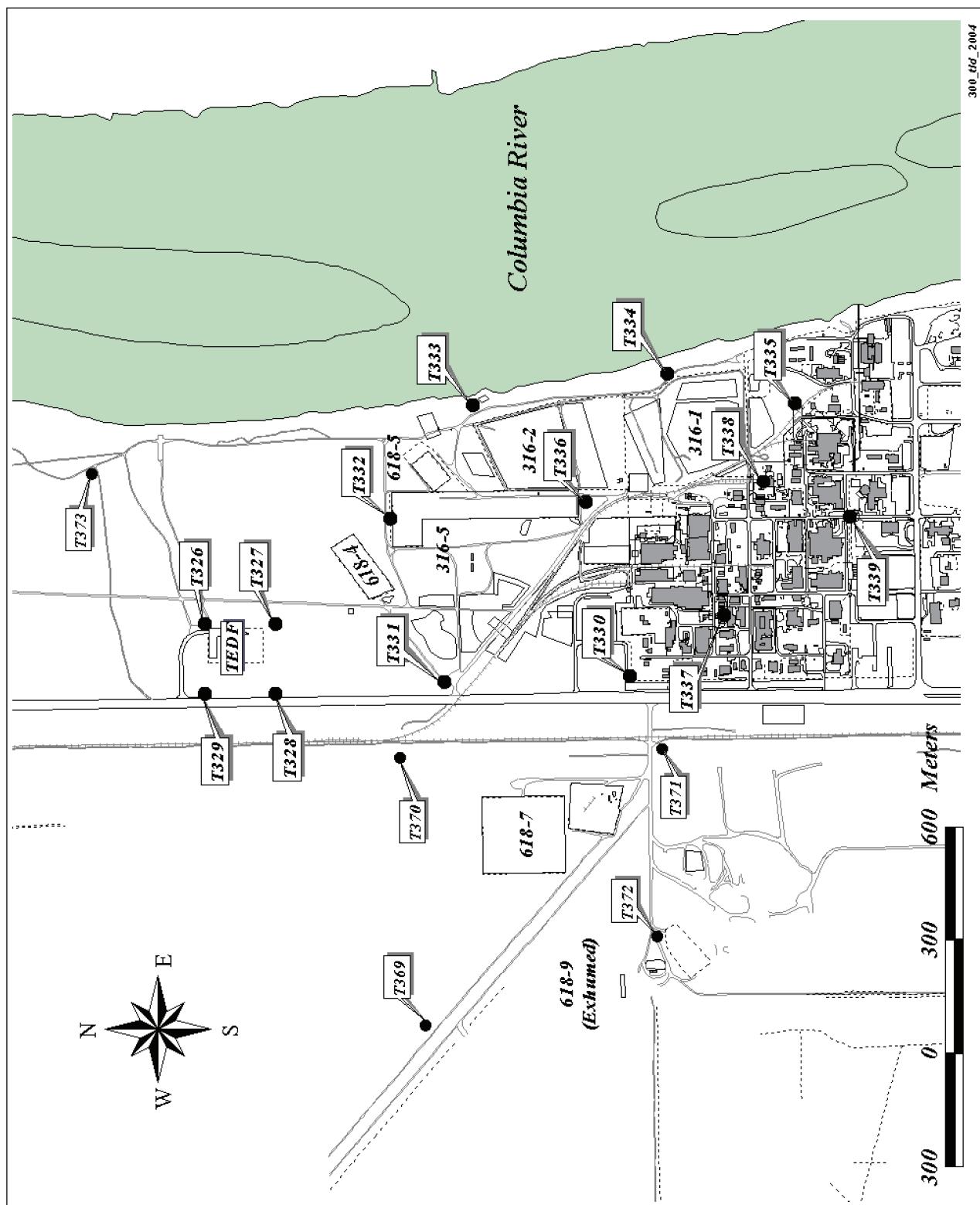


Figure 4-8. 300 Area (North) TLD Locations.

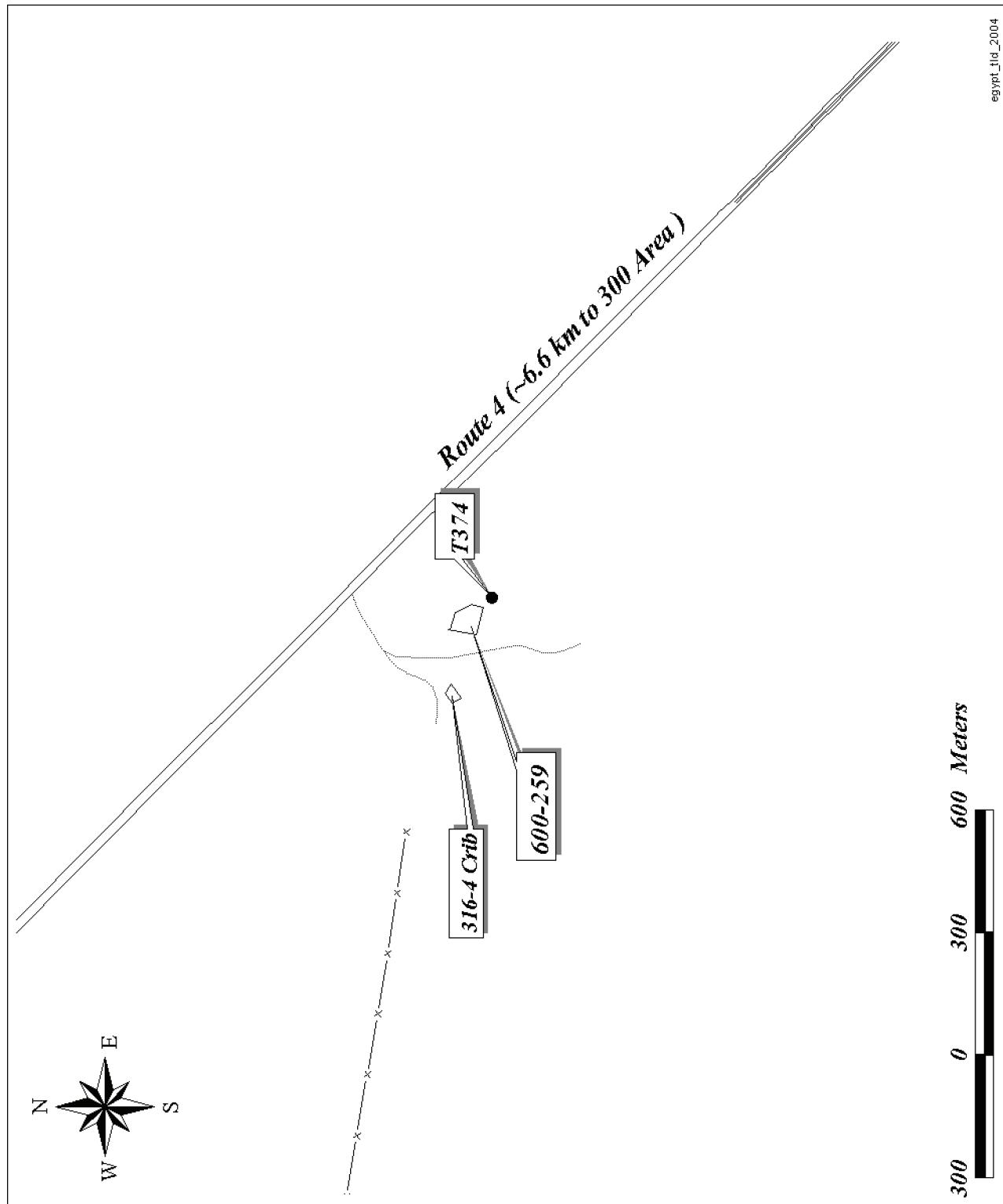


Figure 4-9. 400 Area TLD Locations.

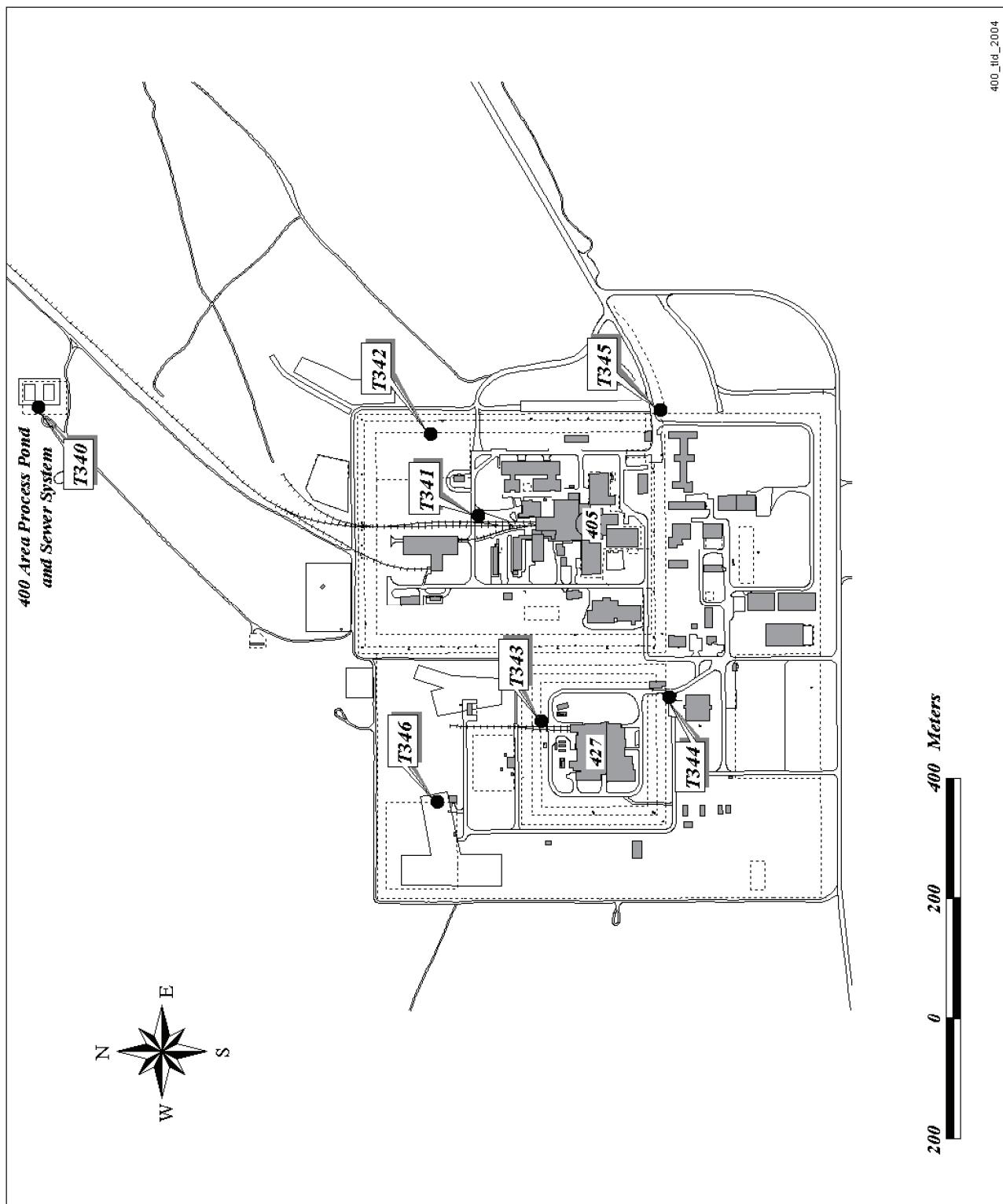


Figure 4-10. Environmental Restoration Disposal Facility TLD Locations.

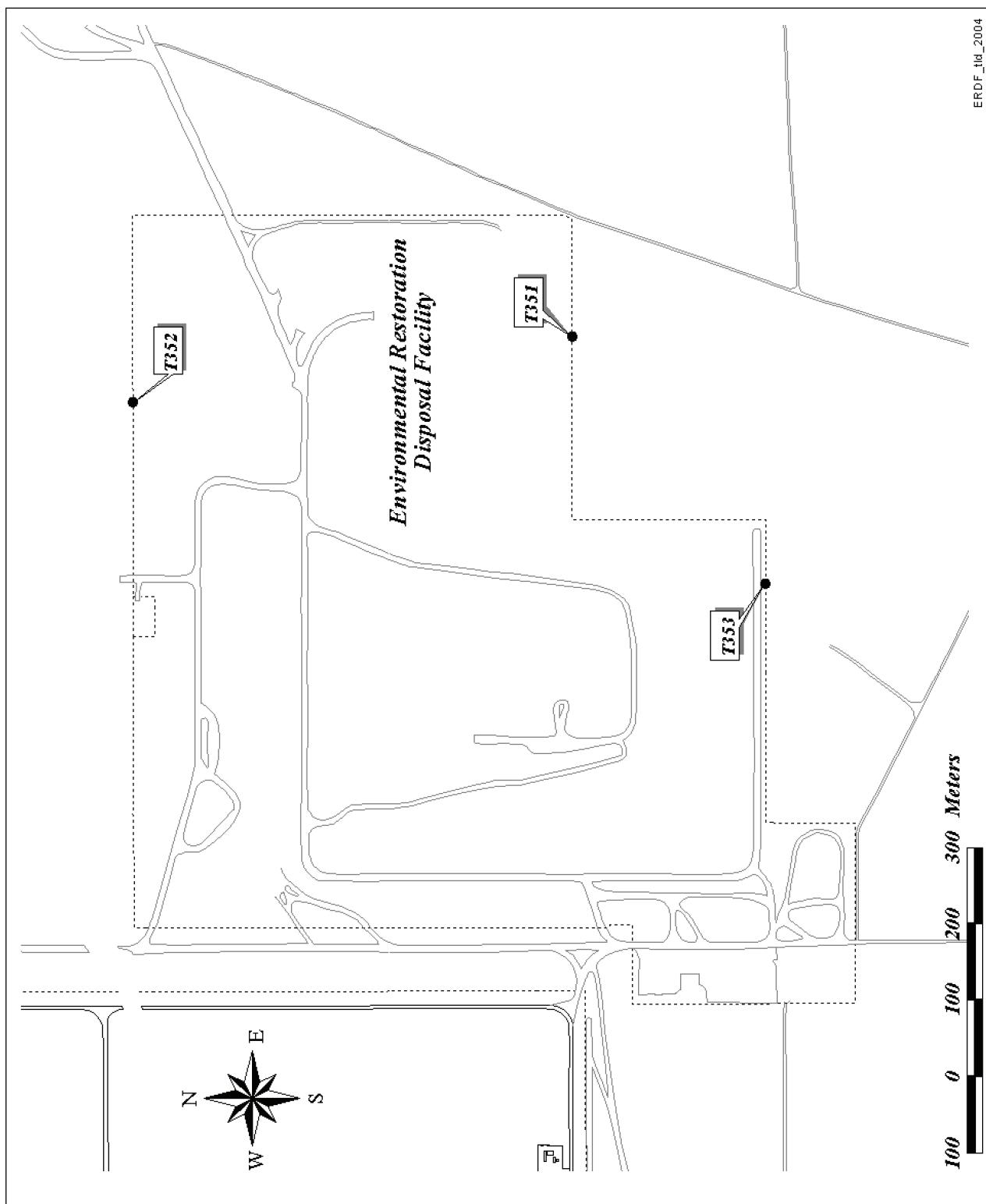
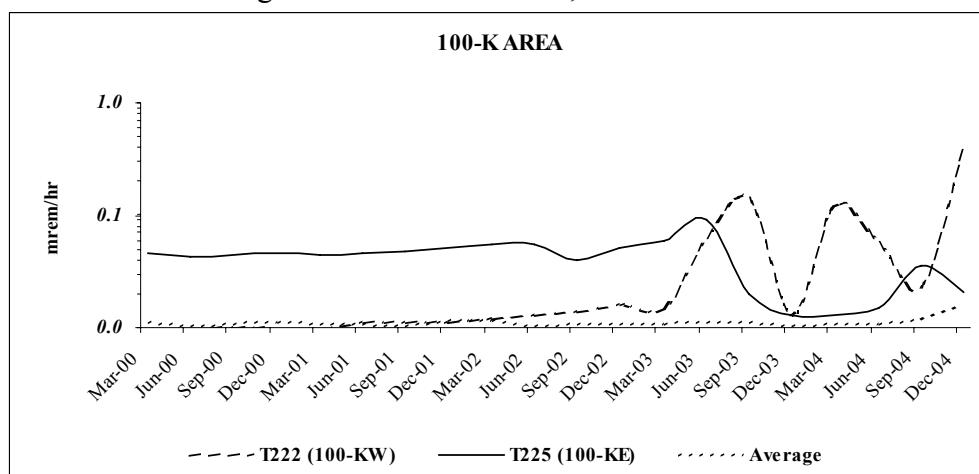


Figure 4-11. TLD Results, 100-K Area.



NOTE: 100-K area, "average" values do not include T222 and T225 results.

Figure 4-12. TLD Results, Cold Vacuum Drying Facility (100-K).

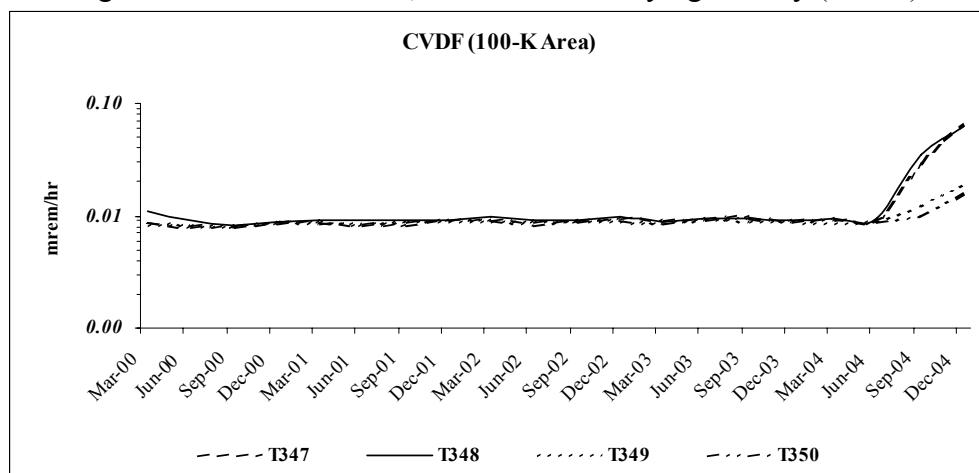


Figure 4-13. TLD Results, 100-N Area.

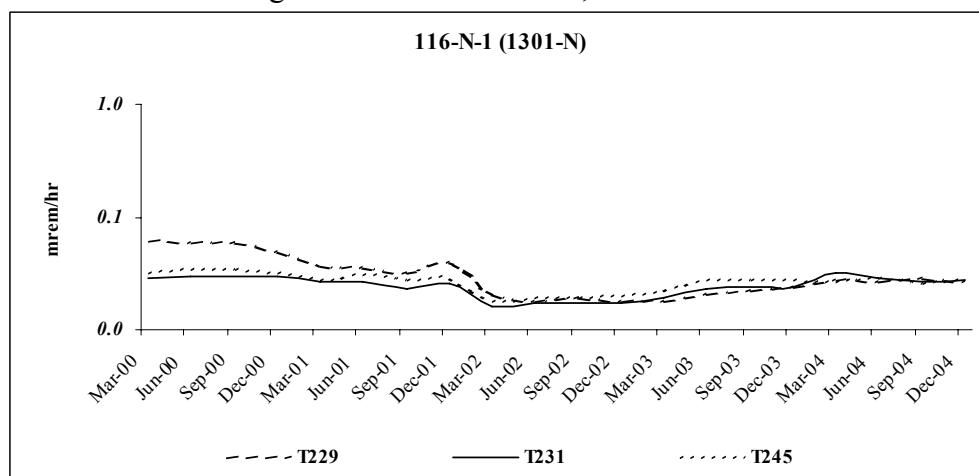


Figure 4-14. TLD Results, 100-N Area.

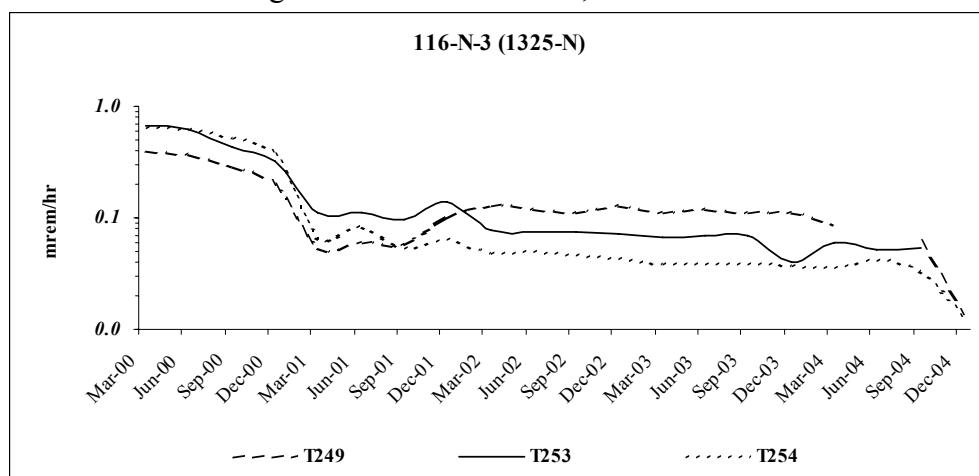
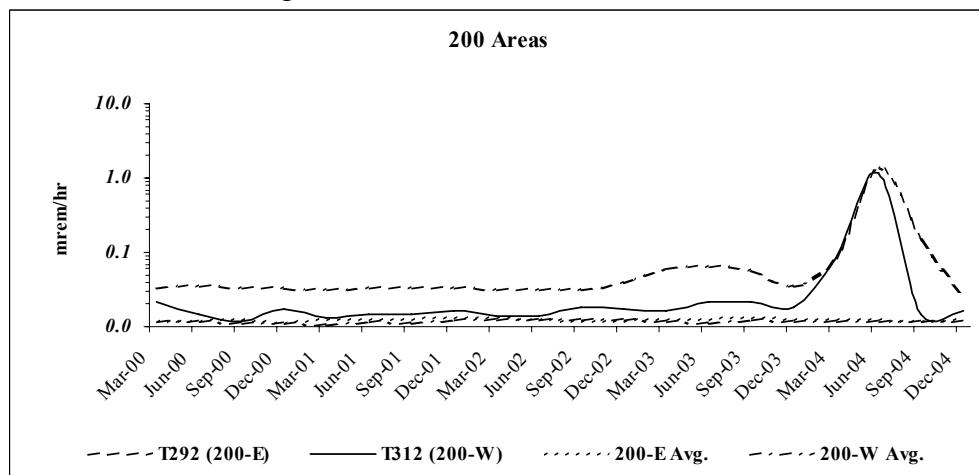


Figure 4-15. TLD Results, 200 Areas.



NOTE: 200 East and 200 West area "average" values do not include T292 and T312 results.

Table 4-2. 2004 TLD Results. (20 sheets total)

Location	Sample Period	EDP Code	mrem/hr	mrem/day	mrem/qtr	mrem/year	Days in Field
100-B/C RA	1st Quarter '04	T200	0.01	0.23	19.9	84	86
		T201	0.01	0.21	18.2	77	86
		T202	0.01	0.25	21.3	91	86
		T203	0.01	0.24	20.2	86	86
	2nd Quarter '04	T200	0.01	0.24	21.5	88	89
		T201	0.01	0.24	21.6	89	89
		T202	0.01	0.24	21.0	86	89
		T203	0.01	0.23	20.5	84	89
	3rd Quarter '04	T200	0.01	0.24	24.3	87	102
		T201	0.01	0.23	23.0	83	102
		T202	0.01	0.23	23.4	84	102
		T203	0.01	0.21	21.9	78	102
	4th Quarter '04	T200	0.01	0.25	22.0	92	87
		T201	0.01	0.23	19.9	84	87
		T202	0.01	0.25	21.7	91	87
		T203	0.01	0.24	21.2	89	87

100-B/C RA, Annual Average \pm 2 Standard Deviation (2SD)

EDP Code	mrem/hr \pm 2SD	mrem/day \pm 2SD	mrem/qtr \pm 2SD	mrem/yr \pm 2SD
T200	0.01 \pm 0.001	0.24 \pm 0.02	22.0 \pm 1.7	88 \pm 7
T201	0.01 \pm 0.001	0.23 \pm 0.03	20.8 \pm 2.3	83 \pm 9
T202	0.01 \pm 0.001	0.24 \pm 0.02	21.9 \pm 1.8	88 \pm 7
T203	0.01 \pm 0.001	0.23 \pm 0.02	21.0 \pm 2.2	84 \pm 9

Table 4-2. 2004 TLD Results. (20 sheets total)

Location	Sample Period	EDP Code	mrem/hr	mrem/day	mrem/qtr	mrem/year	Days in Field
100-K Area	1st Quarter '04	T218	0.01	0.20	17.5	74	86
		T219	0.01	0.26	22.2	94	86
		T220	0.01	0.26	22.6	96	86
		T221	0.01	0.27	23.6	100	86
		T222	0.12	2.87	246.8	1047	86
		T223	0.01	0.34	29.5	125	86
		T224	0.01	0.23	20.1	86	86
		T225	0.01	0.32	27.7	118	86
		T226	0.01	0.23	19.9	85	86
		T227	0.01	0.34	29.6	126	86
		T228	0.01	0.23	19.7	84	86
	2nd Quarter '04	T218	0.01	0.20	18.2	75	89
		T219	0.01	0.23	20.9	86	89
		T220	0.01	0.25	21.8	90	89
		T221	0.01	0.27	24.0	98	89
		T222	0.06	1.39	123.6	507	89
		T223	0.01	0.26	22.7	93	89
		T224	0.01	0.24	21.6	89	89
		T225	0.02	0.37	32.8	135	89
		T226	0.01	0.24	21.1	86	89
		T227	0.02	0.41	36.1	148	89
		T228	0.01	0.23	20.3	83	89
	3rd Quarter '04	T218	0.01	0.21	21.0	75	102
		T219	0.02	0.37	37.8	135	102
		T220	0.01	0.33	33.7	120	102
		T221	0.02	0.38	38.4	137	102
		T222	0.02	0.54	55.4	198	102
		T223	0.01	0.23	23.3	83	102
		T224	0.01	0.23	23.7	85	102
		T225	0.03	0.83	84.7	303	102
		T226	0.01	0.27	27.8	100	102
		T227	0.01	0.34	34.2	123	102
		T228	0.01	0.22	22.7	81	102
	4th Quarter '04	T218	0.01	0.22	19.2	80	88
		T219	0.03	0.72	62.8	263	87
		T220	0.02	0.53	46.0	193	87
		T221	0.02	0.59	51.3	215	87
		T222	0.44	10.5	925.9	3838	87
		T223	0.01	0.30	25.9	109	87
		T224	0.01	0.24	20.8	87	87
		T225	0.02	0.51	44.6	187	87
		T226	0.01	0.25	21.5	90	87
		T227	0.02	0.36	31.7	133	87
		T228	0.01	0.22	18.9	79	87

100-K Area, Annual Average \pm 2 Standard Deviation (2SD)

EDP Code	mrem/hr \pm 2SD	mrem/day \pm 2SD	mrem/qtr \pm 2SD	mrem/yr \pm 2SD
T218	0.01 \pm 0.001	0.21 \pm 0.01	19.0 \pm 1.3	76 \pm 5
T219	0.02 \pm 0.019	0.39 \pm 0.45	36.0 \pm 41.1	144 \pm 164
T220	0.01 \pm 0.011	0.34 \pm 0.26	31.1 \pm 23.7	124 \pm 95
T221	0.02 \pm 0.013	0.38 \pm 0.30	34.4 \pm 27.3	138 \pm 109
T222	0.15 \pm 0.380	3.70 \pm 9.12	338 \pm 832	1352 \pm 3329
T223	0.01 \pm 0.004	0.28 \pm 0.10	25.4 \pm 9.2	102 \pm 37
T224	0.01 \pm 0.000	0.24 \pm 0.01	21.6 \pm 0.9	86 \pm 4
T225	0.02 \pm 0.019	0.52 \pm 0.46	47.6 \pm 41.9	190 \pm 168
T226	0.01 \pm 0.002	0.25 \pm 0.04	22.6 \pm 3.3	90 \pm 13
T227	0.02 \pm 0.003	0.36 \pm 0.06	33.0 \pm 5.7	132 \pm 23
T228	0.01 \pm 0.001	0.22 \pm 0.01	20.4 \pm 1.0	82 \pm 4

Table 4-2. 2004 TLD Results. (20 sheets total)

Location	Sample Period	EDP Code	mrem/hr	mrem/day	mrem/qtr	mrem/year	Days in Field
CVDF (100-K area)	1st Quarter '04	T347	0.01	0.23	19.5	83	86
		T348	0.01	0.23	19.4	82	86
		T349	0.01	0.20	17.4	74	86
		T350	0.01	0.21	18.5	78	86
	2nd Quarter '04	T347	0.01	0.22	19.4	80	89
		T348	0.01	0.23	20.1	83	89
		T349	0.01	0.21	18.6	76	89
		T350	0.01	0.21	19.0	78	89
	3rd Quarter '04	T347	0.03	0.70	71.7	257	102
		T348	0.04	0.85	86.5	309	102
		T349	0.01	0.29	30.0	107	102
		T350	0.01	0.25	25.3	91	102
	4th Quarter '04	T347	0.07	1.56	135.8	570	87
		T348	0.06	1.50	132.3	548	88
		T349	0.02	0.47	41.1	171	88
		T350	0.02	0.38	33.5	139	88

CVDF, Annual Average \pm 2 Standard Deviation (2SD)

EDP Code	mrem/hr \pm 2SD	mrem/day \pm 2SD	mrem/qtr \pm 2SD	mrem/yr \pm 2SD
T347	0.03 \pm 0.053	0.68 \pm 1.26	61.8 \pm 115	247 \pm 461
T348	0.03 \pm 0.051	0.71 \pm 1.22	64.5 \pm 111	258 \pm 445
T349	0.01 \pm 0.010	0.29 \pm 0.25	26.8 \pm 22.5	107 \pm 90
T350	0.01 \pm 0.007	0.26 \pm 0.16	24.1 \pm 14.4	96 \pm 58

Table 4-2. 2004 TLD Results. (20 sheets total)

Location	Sample Period	EDP Code	mrem/hr	mrem/day	mrem/qtr	mrem/year	Days in Field
100-KR-1 RA	1st Quarter '04	T364	0.01	0.27	23.3	99	86
		T365	0.01	0.24	20.2	86	86
		T366	0.01	0.26	22.6	96	86
		T367	0.01	0.27	23.1	98	86
		T368	0.01	0.27	22.8	97	86
	2nd Quarter '04	T364	0.01	0.25	22.4	92	89
		T365	0.01	0.23	20.8	86	89
		T366	0.01	0.29	25.9	106	89
		T367	0.01	0.27	24.0	98	89
		T368	0.01	0.29	25.6	105	89
	3rd Quarter '04	T364	0.01	0.25	25.9	93	102
		T365	0.01	0.22	22.5	81	102
		T366	0.01	0.27	27.8	99	102
		T367	0.01	0.26	26.8	96	102
		T368	0.01	0.29	29.9	107	102
	4th Quarter '04	T364	0.01	0.27	23.7	99	87
		T365	0.01	0.24	21.1	89	87
		T366	0.01	0.28	24.0	101	87
		T367	0.01	0.28	24.7	104	87
		T368	0.01	0.30	25.8	108	87

100-KR-1, Annual Average ± 2 Standard Deviation (2SD)				
EDP Code	mrem/hr ± 2SD	mrem/day ± 2SD	mrem/qtr ± 2SD	mrem/yr ± 2SD
T364	0.01 ± 0.001	0.26 ± 0.02	23.9 ± 2.0	96 ± 8
T365	0.01 ± 0.001	0.23 ± 0.02	21.2 ± 1.7	85 ± 7
T366	0.01 ± 0.001	0.28 ± 0.02	25.1 ± 2.2	100 ± 9
T367	0.01 ± 0.001	0.27 ± 0.02	24.7 ± 1.6	99 ± 6
T368	0.01 ± 0.001	0.29 ± 0.03	26.1 ± 2.6	104 ± 10

Table 4-2. 2004 TLD Results. (20 sheets total)

Location	Sample Period	EDP Code	mrem/hr	mrem/day	mrem/qtr	mrem/year	Days in Field
100-N Area	1st Quarter '04	T229	0.03	0.67	57.0	245	85
		T231	0.03	0.77	65.8	283	85
		T234	0.01	0.28	23.8	102	85
		T235	0.02	0.41	35.0	150	85
		T240	0.02	0.41	35.1	151	85
		T243	0.01	0.22	19.0	82	85
		T245	0.03	0.65	55.0	236	85
		T246	0.01	0.28	23.6	101	85
		T248	0.02	0.51	43.5	187	85
		T249	0.08	2.04	173.2	744	85
		T250	0.01	0.30	25.1	108	85
		T251	0.01	0.29	25.0	107	85
		T253	0.06	1.42	120.5	517	85
		T254	0.04	0.87	73.9	317	85
	2nd Quarter '04	T229	0.03	0.66	59.0	239	90
		T231	0.03	0.69	62.2	252	90
		T234	0.01	0.30	27.0	110	90
		T235	0.01	0.29	26.0	105	90
		T240	0.02	0.44	39.4	160	90
		T243	0.01	0.21	18.9	77	90
		T245	0.03	0.70	62.7	254	90
		T246	0.01	0.32	29.0	118	90
		T248			TLD not recoverable		
		T249			TLD not recoverable		
		T250	0.01	0.30	26.9	109	90
		T251	0.01	0.31	27.5	112	90
		T253	0.05	1.21	109.1	443	90
		T254	0.04	1.00	89.6	364	90
	3rd Quarter '04	T229	0.03	0.69	69.6	252	101
		T231	0.03	0.65	65.6	237	101
		T234	0.01	0.30	30.4	110	101
		T235	0.01	0.30	30.0	108	101
		T240	0.02	0.41	41.3	149	101
		T243	0.01	0.22	21.9	79	101
		T245	0.03	0.62	62.9	227	101
		T246	0.01	0.31	31.1	113	101
		T248	0.03	0.63	64.1	232	101
		T249	0.06	1.51	152.3	550	101
		T250	0.01	0.30	30.7	111	101
		T251	0.01	0.32	32.1	116	101
		T253	0.05	1.28	129.6	468	101
		T254	0.03	0.78	79.1	286	101
	4th Quarter '04	T229	0.03	0.66	58.1	241	88
		T231	0.03	0.67	58.5	245	87
		T234	0.01	0.34	29.8	125	87
		T235	0.01	0.29	25.0	105	87
		T240	0.02	0.46	40.0	168	87
		T243	0.01	0.22	19.8	82	88
		T245	0.03	0.68	59.1	248	87
		T246	0.01	0.32	27.9	117	87
		T248	0.01	0.23	20.2	85	87
		T249	0.01	0.35	30.5	126	88
		T250	0.01	0.31	26.9	113	87
		T251	0.02	0.38	33.5	139	88
		T253			TLD not recoverable		
		T254	0.01	0.31	26.9	111	118

Table 4-2. 2004 TLD Results. (20 sheets total)

EDP Code	100-N Area, Annual Average \pm 2 Standard Deviation (2SD)			
	mrem/hr \pm 2SD	mrem/day \pm 2SD	mrem/qtr \pm 2SD	mrem/yr \pm 2SD
T229	0.03 \pm 0.001	0.67 \pm 0.03	61.1 \pm 2.7	244 \pm 11
T231	0.03 \pm 0.005	0.69 \pm 0.11	63.4 \pm 9.9	253 \pm 40
T234	0.01 \pm 0.002	0.31 \pm 0.05	27.9 \pm 4.8	112 \pm 19
T235	0.01 \pm 0.005	0.32 \pm 0.12	29.1 \pm 11.1	117 \pm 44
T240	0.02 \pm 0.002	0.43 \pm 0.05	39.2 \pm 4.3	157 \pm 17
T243	0.01 \pm 0.001	0.22 \pm 0.01	19.9 \pm 1.2	80 \pm 5
T245	0.03 \pm 0.003	0.66 \pm 0.07	60.3 \pm 6.0	241 \pm 24
T246	0.01 \pm 0.002	0.31 \pm 0.04	28.1 \pm 3.8	112 \pm 15
T248	0.02 \pm 0.017	0.37 \pm 0.40	33.8 \pm 36.2	135 \pm 145
T249	0.05 \pm 0.072	1.30 \pm 1.73	119 \pm 158	474 \pm 631
T250	0.01 \pm 0.001	0.30 \pm 0.01	27.6 \pm 1.1	110 \pm 4
T251	0.01 \pm 0.003	0.32 \pm 0.08	29.6 \pm 7.0	118 \pm 28
T253	0.05 \pm 0.009	1.30 \pm 0.21	119 \pm 19	475 \pm 76
T254	0.03 \pm 0.025	0.74 \pm 0.60	67.6 \pm 55.1	270 \pm 220

Table 4-2. 2004 TLD Results. (20 sheets total)

Location	Sample Period	EDP Code	mrem/hr	mrem/day	mrem/qtr	mrem/year	Days in Field
200 East area	1st Quarter '04	T259	0.01	0.23	17.9	83	79
		T260	0.01	0.22	17.7	82	79
		T261	0.01	0.24	19.1	89	79
		T262	0.01	0.22	17.2	80	79
		T263	0.01	0.22	17.6	82	79
		T264	0.01	0.27	21.6	100	79
		T265	0.01	0.29	23.0	106	79
		T266	0.01	0.23	18.0	83	79
		T267	0.01	0.23	18.4	85	79
		T268	0.01	0.30	23.6	109	79
		T269	0.01	0.25	19.5	90	79
		T270	0.02	0.36	28.9	132	80
		T271	0.01	0.23	18.6	85	80
		T272	0.01	0.27	21.0	97	79
		T273	0.01	0.24	19.1	88	79
		T274	0.01	0.24	19.2	88	80
		T275	0.01	0.24	19.0	87	80
		T276	0.01	0.22	17.6	81	79
		T277	0.01	0.24	19.3	89	79
		T278	0.01	0.23	18.5	86	79
		T279	0.01	0.24	18.7	86	79
		T280	0.01	0.24	19.0	88	79
		T281	0.01	0.24	19.2	89	79
		T282	0.01	0.24	18.6	86	79
		T283	0.01	0.26	20.5	95	79
		T284	0.01	0.28	21.8	101	79
		T285	0.02	0.57	44.8	207	79
		T286	0.01	0.36	28.3	131	79
		T287	0.02	0.41	32.6	151	79
		T288	0.03	0.77	60.6	280	79
		T289	0.01	0.34	27.1	125	79
		T290	0.03	0.61	48.0	222	79
		T291	0.02	0.45	35.4	164	79
		T292	0.08	2.0	157	727	79
		T293	0.01	0.31	24.8	115	79
		T294	0.02	0.47	37.4	173	79
		T295	0.01	0.25	19.5	90	79
		T296	0.01	0.25	19.9	92	79
		T297	0.01	0.24	18.6	86	79
		T298	0.01	0.23	18.6	86	79
		T299	0.01	0.25	19.6	91	79
		T300	0.01	0.27	21.0	97	79

Table 4-2. 2004 TLD Results. (20 sheets total)

Location	Sample Period	EDP Code	mrem/hr	mrem/day	mrem/qtr	mrem/year	Days in Field
200 East area	2nd Quarter '04	T259	0.01	0.23	22.5	83	99
		T260	0.01	0.22	21.6	80	99
		T261	0.01	0.24	23.4	87	98
		T262	0.01	0.22	21.8	81	98
		T263	0.01	0.23	22.7	85	98
		T264	0.01	0.30	29.7	110	99
		T265	0.01	0.30	29.6	109	99
		T266	0.01	0.23	22.3	82	99
		T267	0.01	0.25	24.9	92	99
		T268	0.01	0.30	29.5	109	99
		T269	0.01	0.26	25.4	95	98
		T270	0.02	0.38	36.8	137	98
		T271	0.01	0.25	24.2	90	98
		T272	0.01	0.28	27.8	104	98
		T273	0.01	0.22	21.6	80	99
		T274	0.01	0.24	23.6	88	98
		T275	0.01	0.25	24.1	90	98
		T276	0.01	0.23	22.5	83	99
		T277	0.01	0.26	25.6	94	99
		T278	0.01	0.24	23.3	87	98
		T279	0.01	0.24	23.1	86	98
		T280	0.01	0.23	22.4	84	98
		T281	0.01	0.23	22.5	84	98
		T282	0.01	0.24	23.8	89	98
		T283	0.01	0.25	24.1	90	98
		T284	0.01	0.30	29.0	108	98
		T285	0.02	0.54	53.2	198	98
		T286	0.02	0.36	35.5	132	98
		T287	0.02	0.45	44.6	166	98
		T288	0.03	0.75	73.5	274	98
		T289	0.01	0.35	34.2	127	98
		T290	0.02	0.41	40.6	151	98
		T291	0.02	0.49	47.6	178	98
		T292	1.43	34.3	3362	12527	98
		T293	0.01	0.36	34.9	130	98
		T294	0.02	0.46	44.7	167	98
		T295	0.01	0.24	23.3	87	98
		T296	0.01	0.26	25.0	93	98
		T297	0.01	0.23	22.9	85	98
		T298	0.01	0.23	22.7	84	99
		T299	0.01	0.24	23.8	88	99
		T300	0.01	0.25	24.3	90	98

Table 4-2. 2004 TLD Results. (20 sheets total)

Location	Sample Period	EDP Code	mrem/hr	mrem/day	mrem/qtr	mrem/year	Days in Field
200 East area	3rd Quarter '04	T259	0.01	0.23	22.4	84	97
		T260	0.01	0.22	21.5	81	97
		T261	0.01	0.24	23.4	88	97
		T262	0.01	0.22	21.3	80	97
		T263	0.01	0.24	23.3	88	97
		T264	0.01	0.29	27.7	104	97
		T265	0.01	0.29	28.0	106	97
		T266	0.01	0.23	22.3	84	97
		T267	0.01	0.24	23.2	87	97
		T268	0.01	0.31	29.9	112	97
		T269	0.01	0.24	23.7	89	97
		T270	0.02	0.37	35.5	134	97
		T271	0.01	0.25	24.1	91	97
		T272	0.01	0.32	31.4	118	97
		T273	0.01	0.23	22.4	84	97
		T274			TLD not recoverable		
		T275	0.01	0.23	22.7	86	97
		T276	0.01	0.21	20.7	78	97
		T277	0.01	0.24	23.3	88	97
		T278	0.01	0.23	22.2	84	97
		T279	0.01	0.22	21.8	82	97
		T280	0.01	0.22	21.1	80	97
		T281	0.01	0.23	22.5	85	97
		T282	0.01	0.22	21.2	80	97
		T283	0.01	0.23	22.3	84	97
		T284	0.01	0.28	26.7	101	97
		T285	0.02	0.53	51.8	195	97
		T286	0.01	0.29	28.3	107	97
		T287	0.02	0.48	46.9	177	97
		T288	0.03	0.72	70.3	264	97
		T289	0.02	0.37	35.6	134	97
		T290	0.02	0.37	35.8	135	97
		T291	0.02	0.43	41.4	156	97
		T292	0.15	3.7	359	1352	97
		T293	0.01	0.32	31.5	118	97
		T294	0.02	0.47	45.7	172	97
		T295	0.01	0.23	22.3	84	97
		T296	0.01	0.24	23.5	89	97
		T297	0.01	0.23	22.1	83	97
		T298	0.01	0.21	20.6	78	97
		T299	0.01	0.22	21.7	82	97
		T300	0.01	0.25	24.1	91	97

Table 4-2. 2004 TLD Results. (20 sheets total)

Location	Sample Period	EDP Code	mrem/hr	mrem/day	mrem/qtr	mrem/year	Days in Field
200 East area	4th Quarter '04	T259	0.01	0.23	19.5	85	84
		T260	0.01	0.24	19.9	87	84
		T261	0.01	0.26	21.8	93	85
		T262	0.01	0.23	19.3	83	85
		T263	0.01	0.26	22.3	96	85
		T264	0.01	0.30	25.2	109	84
		T265	0.01	0.32	27.2	118	84
		T266	0.01	0.24	20.1	88	84
		T267	0.01	0.26	21.7	94	84
		T268	0.01	0.33	27.5	119	84
		T269	0.01	0.25	21.6	92	86
		T270	0.02	0.40	33.4	145	84
		T271	0.01	0.24	20.4	89	84
		T272	0.01	0.29	24.4	105	85
		T273	0.01	0.23	19.1	83	84
		T274	0.01	0.27	22.4	97	84
		T275	0.01	0.25	20.9	91	84
		T276	0.01	0.21	17.6	77	84
		T277	0.01	0.26	21.5	93	84
		T278	0.01	0.24	20.3	87	85
		T279	0.01	0.22	18.9	81	85
		T280	0.01	0.22	19.1	82	85
		T281	0.01	0.24	20.2	87	85
		T282	0.01	0.23	19.8	85	85
		T283	0.01	0.24	20.4	86	86
		T284	0.01	0.28	23.8	102	85
		T285	0.02	0.51	43.8	188	85
		T286	0.02	0.38	32.3	139	85
		T287	0.02	0.50	42.1	181	85
		T288	0.03	0.73	62.7	266	86
		T289	0.02	0.37	31.8	137	85
		T290	0.01	0.33	28.2	120	86
		T291	0.02	0.45	39.1	166	86
		T292	0.02	0.60	50.9	218	85
		T293	0.01	0.34	28.6	123	85
		T294	0.02	0.47	39.6	170	85
		T295	0.01	0.23	19.6	84	85
		T296	0.01	0.25	21.2	92	84
		T297	0.01	0.23	19.7	86	84
		T298	0.01	0.23	19.0	82	84
		T299	0.01	0.25	20.7	90	84
		T300	0.01	0.26	21.8	93	85

Table 4-2. 2004 TLD Results. (20 sheets total)

EDP Code	200 East area, Annual Average \pm 2 Standard Deviation (2SD)			
	mrem/hr \pm 2SD	mrem/day \pm 2SD	mrem/qtr \pm 2SD	mrem/yr \pm 2SD
T259	0.01 \pm 0.000	0.23 \pm 0.01	20.9 \pm 0.5	84 \pm 2
T260	0.01 \pm 0.001	0.22 \pm 0.02	20.5 \pm 1.5	82 \pm 6
T261	0.01 \pm 0.001	0.24 \pm 0.02	22.3 \pm 1.4	89 \pm 6
T262	0.01 \pm 0.000	0.22 \pm 0.01	20.2 \pm 0.7	81 \pm 3
T263	0.01 \pm 0.001	0.24 \pm 0.03	21.8 \pm 3.0	87 \pm 12
T264	0.01 \pm 0.001	0.29 \pm 0.03	26.5 \pm 2.4	106 \pm 9
T265	0.01 \pm 0.001	0.30 \pm 0.03	27.4 \pm 2.9	110 \pm 11
T266	0.01 \pm 0.001	0.23 \pm 0.01	21.0 \pm 1.1	84 \pm 5
T267	0.01 \pm 0.001	0.25 \pm 0.02	22.4 \pm 2.1	90 \pm 8
T268	0.01 \pm 0.001	0.31 \pm 0.03	28.1 \pm 2.5	112 \pm 10
T269	0.01 \pm 0.001	0.25 \pm 0.01	22.9 \pm 1.2	91 \pm 5
T270	0.02 \pm 0.001	0.38 \pm 0.03	34.2 \pm 3.0	137 \pm 12
T271	0.01 \pm 0.001	0.24 \pm 0.01	22.2 \pm 1.3	89 \pm 5
T272	0.01 \pm 0.002	0.29 \pm 0.05	26.6 \pm 4.4	106 \pm 18
T273	0.01 \pm 0.001	0.23 \pm 0.02	20.9 \pm 1.8	84 \pm 7
T274	0.01 \pm 0.001	0.25 \pm 0.03	22.7 \pm 2.7	91 \pm 11
T275	0.01 \pm 0.001	0.24 \pm 0.01	22.1 \pm 1.3	88 \pm 5
T276	0.01 \pm 0.001	0.22 \pm 0.02	19.9 \pm 1.5	80 \pm 6
T277	0.01 \pm 0.001	0.25 \pm 0.02	22.8 \pm 1.6	91 \pm 6
T278	0.01 \pm 0.000	0.23 \pm 0.01	21.4 \pm 0.8	86 \pm 3
T279	0.01 \pm 0.001	0.23 \pm 0.02	21.0 \pm 1.4	84 \pm 6
T280	0.01 \pm 0.001	0.23 \pm 0.02	20.8 \pm 1.7	83 \pm 7
T281	0.01 \pm 0.001	0.24 \pm 0.01	21.5 \pm 1.1	86 \pm 4
T282	0.01 \pm 0.001	0.23 \pm 0.02	21.2 \pm 1.9	85 \pm 7
T283	0.01 \pm 0.001	0.24 \pm 0.03	22.1 \pm 2.3	88 \pm 9
T284	0.01 \pm 0.001	0.28 \pm 0.02	25.8 \pm 1.8	103 \pm 7
T285	0.02 \pm 0.002	0.54 \pm 0.04	49.2 \pm 4.0	197 \pm 16
T286	0.01 \pm 0.003	0.35 \pm 0.08	31.6 \pm 7.0	126 \pm 28
T287	0.02 \pm 0.003	0.46 \pm 0.07	42.2 \pm 6.7	169 \pm 27
T288	0.03 \pm 0.002	0.74 \pm 0.04	67.7 \pm 3.7	271 \pm 15
T289	0.01 \pm 0.001	0.36 \pm 0.03	32.7 \pm 2.6	131 \pm 11
T290	0.02 \pm 0.01	0.42 \pm 0.25	38.7 \pm 22.6	155 \pm 90
T291	0.02 \pm 0.002	0.45 \pm 0.05	41.5 \pm 4.5	166 \pm 18
T292	0.46 \pm 1.35	10.9 \pm 32.3	999 \pm 2949	3995 \pm 11797
T293	0.01 \pm 0.002	0.33 \pm 0.04	30.4 \pm 3.2	122 \pm 13
T294	0.02 \pm 0.001	0.47 \pm 0.02	42.6 \pm 1.4	170 \pm 5
T295	0.01 \pm 0.001	0.24 \pm 0.02	21.5 \pm 1.4	86 \pm 6
T296	0.01 \pm 0.001	0.25 \pm 0.01	22.9 \pm 1.0	91 \pm 4
T297	0.01 \pm 0.000	0.23 \pm 0.01	21.2 \pm 0.6	85 \pm 2
T298	0.01 \pm 0.001	0.23 \pm 0.02	20.5 \pm 1.8	82 \pm 7
T299	0.01 \pm 0.001	0.24 \pm 0.02	21.8 \pm 2.0	87 \pm 8
T300	0.01 \pm 0.001	0.25 \pm 0.02	23.2 \pm 1.5	93 \pm 6

Table 4-2. 2004 TLD Results. (20 sheets total)

Location	Sample Period	EDP Code	mrem/hr	mrem/day	mrem/qtr	mrem/year	Days in Field
200 West area	1st Quarter '04	T302	0.01	0.24	18.8	87	79
		T303	0.01	0.32	25.5	118	79
		T304	0.01	0.34	26.6	123	79
		T305	0.01	0.23	17.9	83	79
		T306	0.01	0.31	24.9	115	79
		T307	0.01	0.27	21.3	99	79
		T308	0.01	0.25	20.1	93	79
		T309	0.01	0.24	18.8	87	79
		T310	0.01	0.26	20.5	95	79
		T311	0.01	0.25	19.4	90	79
		T312	0.09	2.09	165.1	763	79
		T313	0.02	0.49	38.8	179	79
		T314	0.01	0.23	18.2	84	79
		T315	0.01	0.24	19.1	88	79
		T316	0.01	0.24	19.2	89	79
		T317	0.01	0.24	19.1	88	79
		T318	0.01	0.23	18.0	83	79
		T319	0.01	0.23	17.9	83	79
		T320	0.01	0.30	23.5	109	79
		T321	0.01	0.26	20.9	96	79
		T322	0.01	0.26	20.8	96	79
		T323	0.01	0.30	23.5	109	79
		T324	0.01	0.35	27.3	126	79
		T325	0.01	0.34	27.1	125	79
	2nd Quarter '04	T302	0.01	0.26	25.4	95	98
		T303	0.01	0.33	32.3	120	98
		T304	0.01	0.34	33.1	123	98
		T305	0.01	0.23	22.1	82	98
		T306	0.01	0.28	27.9	104	98
		T307	0.01	0.28	27.1	101	98
		T308	0.01	0.26	25.3	94	98
		T309	0.01	0.27	26.4	98	98
		T310	0.01	0.27	26.9	100	98
		T311	0.01	0.28	27.5	103	98
		T312	1.17	28.1	2749	10243	98
		T313	0.02	0.51	49.9	186	98
		T314	0.01	0.24	23.1	86	98
		T315	0.01	0.25	25.0	93	98
		T316	0.01	0.24	23.5	88	98
		T317	0.01	0.26	25.6	96	98
		T318	0.01	0.23	22.4	83	98
		T319	0.01	0.24	23.1	86	98
		T320	0.01	0.30	29.5	110	98
		T321			TLD not recoverable		
		T322	0.01	0.23	22.4	83	98
		T323	0.01	0.28	27.5	103	98
		T324	0.01	0.35	34.5	129	98
		T325	0.01	0.32	31.0	116	98

Table 4-2. 2004 TLD Results. (20 sheets total)

Location	Sample Period	EDP Code	mrem/hr	mrem/day	mrem/qtr	mrem/year	Days in Field
200 West area	3rd Quarter '04	T302			TLD not recoverable		
		T303	0.01	0.31	30.5	114	98
		T304	0.01	0.34	33.3	124	98
		T305	0.01	0.24	23.5	88	98
		T306	0.01	0.29	28.1	105	98
		T307	0.01	0.27	26.9	100	98
		T308	0.01	0.25	25.0	93	98
		T309	0.01	0.26	25.3	94	98
		T310	0.01	0.27	26.5	99	98
		T311	0.01	0.29	28.3	105	98
		T312	0.02	0.36	35.3	131	98
		T313	0.02	0.47	45.9	171	98
		T314	0.01	0.22	21.8	81	98
		T315	0.01	0.24	23.0	86	98
		T316	0.01	0.26	25.8	96	98
		T317	0.01	0.25	24.5	91	98
		T318	0.01	0.22	21.3	79	98
		T319	0.01	0.24	23.1	86	98
		T320	0.01	0.28	27.5	103	98
		T321	0.01	0.29	28.6	107	98
		T322	0.01	0.23	22.2	83	98
		T323	0.01	0.28	27.0	101	98
		T324	0.01	0.35	34.6	129	98
		T325	0.01	0.32	31.4	117	98
	4th Quarter '04	T302	0.01	0.25	20.8	90	84
		T303	0.01	0.33	27.9	121	84
		T304	0.02	0.36	30.2	131	84
		T305	0.01	0.25	20.9	91	84
		T306	0.01	0.29	24.7	107	84
		T307	0.01	0.29	24.5	107	84
		T308	0.01	0.26	21.9	95	84
		T309	0.01	0.24	19.9	87	84
		T310	0.01	0.28	23.5	102	84
		T311	0.01	0.31	26.3	114	84
		T312	0.02	0.39	32.7	142	84
		T313	0.02	0.51	42.9	186	84
		T314	0.01	0.23	19.7	86	84
		T315	0.01	0.26	22.3	97	84
		T316	0.01	0.27	22.9	100	84
		T317	0.01	0.25	21.0	91	84
		T318	0.01	0.24	20.4	89	84
		T319	0.01	0.23	19.6	85	84
		T320	0.01	0.25	20.8	91	84
		T321	0.01	0.28	23.7	103	84
		T322	0.01	0.24	19.8	86	84
		T323	0.01	0.28	23.7	103	84
		T324	0.02	0.38	31.8	138	84
		T325	0.01	0.34	28.5	124	84

Table 4-2. 2004 TLD Results. (20 sheets total)

EDP Code	200 West area, Annual Average \pm 2 Standard Deviation (2SD)			
	mrem/hr \pm 2SD	mrem/day \pm 2SD	mrem/qtr \pm 2SD	mrem/yr \pm 2SD
T302	0.01 \pm 0.001	0.25 \pm 0.02	22.7 \pm 1.9	91 \pm 8
T303	0.01 \pm 0.001	0.32 \pm 0.02	29.5 \pm 1.6	118 \pm 7
T304	0.01 \pm 0.001	0.34 \pm 0.02	31.3 \pm 2.0	125 \pm 8
T305	0.01 \pm 0.001	0.24 \pm 0.02	21.5 \pm 2.0	86 \pm 8
T306	0.01 \pm 0.001	0.29 \pm 0.03	26.8 \pm 2.5	107 \pm 10
T307	0.01 \pm 0.001	0.28 \pm 0.02	25.4 \pm 1.8	101 \pm 7
T308	0.01 \pm 0.000	0.26 \pm 0.01	23.5 \pm 0.5	94 \pm 2
T309	0.01 \pm 0.001	0.25 \pm 0.03	23.0 \pm 2.9	92 \pm 12
T310	0.01 \pm 0.001	0.27 \pm 0.02	24.7 \pm 1.6	99 \pm 6
T311	0.01 \pm 0.002	0.28 \pm 0.06	25.8 \pm 5.1	103 \pm 20
T312	0.35 \pm 1.13	8.31 \pm 27.2	758 \pm 2479	3032 \pm 9915
T313	0.02 \pm 0.002	0.49 \pm 0.04	45.1 \pm 3.6	180 \pm 14
T314	0.01 \pm 0.001	0.23 \pm 0.01	21.1 \pm 1.2	84 \pm 5
T315	0.01 \pm 0.001	0.25 \pm 0.03	22.7 \pm 2.4	91 \pm 10
T316	0.01 \pm 0.001	0.25 \pm 0.03	23.2 \pm 2.8	93 \pm 11
T317	0.01 \pm 0.001	0.25 \pm 0.02	22.9 \pm 1.5	92 \pm 6
T318	0.01 \pm 0.001	0.23 \pm 0.02	20.9 \pm 1.9	83 \pm 7
T319	0.01 \pm 0.000	0.23 \pm 0.01	21.3 \pm 0.9	85 \pm 3
T320	0.01 \pm 0.002	0.28 \pm 0.05	25.8 \pm 4.5	103 \pm 18
T321	0.01 \pm 0.001	0.28 \pm 0.03	25.6 \pm 2.5	102 \pm 10
T322	0.01 \pm 0.001	0.24 \pm 0.03	21.6 \pm 3.1	86 \pm 13
T323	0.01 \pm 0.001	0.28 \pm 0.02	25.9 \pm 1.8	103 \pm 7
T324	0.01 \pm 0.001	0.36 \pm 0.03	32.6 \pm 2.6	130 \pm 10
T325	0.01 \pm 0.001	0.33 \pm 0.03	30.0 \pm 2.5	120 \pm 10

Table 4-2. 2004 TLD Results. (20 sheets total)

Location	Sample Period	EDP Code	mrem/hr	mrem/day	mrem/qtr	mrem/year	Days in Field
212-R (200 North)	1st Quarter '04	T301	0.31	7.36	581	2685	79
	2nd Quarter '04	T301	0.33	7.86	762	2870	97
	3rd Quarter '04	T301	0.33	7.82	767	2856	98
	4th Quarter '04	T301	0.35	8.35	710	3047	85
212-R, Annual Average ± 2 Standard Deviation (2SD)							
EDP Code	mrem/hr ± 2SD	mrem/day ± 2SD	mrem/qtr ± 2SD	mrem/yr ± 2SD			
T301	0.33 ± 0.034	7.86 ± 0.81	717 ± 74	2867 ± 295			

Table 4-2. 2004 TLD Results. (20 sheets total)

Location	Sample Period	EDP Code	mrem/hr	mrem/day	mrem/qtr	mrem/year	Days in Field
300 Area	1st Quarter '04	T332	0.01	0.22	20.1	81	91
		T333	0.01	0.24	22.2	89	91
		T334	0.01	0.23	20.7	83	91
		T335	0.01	0.25	22.3	89	91
		T336	0.01	0.21	19.5	78	91
		T337	0.01	0.25	22.4	90	91
		T338	0.01	0.29	26.5	106	91
		T339	0.01	0.29	26.1	105	91
	2nd Quarter '04	T332	0.01	0.24	20.5	87	86
		T333	0.01	0.24	20.6	88	86
		T334	0.01	0.23	19.9	84	86
		T335	0.01	0.24	20.9	89	86
		T336	0.01	0.23	20.1	85	86
		T337	0.01	0.26	21.9	93	86
		T338	0.01	0.32	27.5	117	86
		T339	0.01	0.32	27.6	117	86
	3rd Quarter '04	T332	0.01	0.23	23.2	84	101
		T333	0.01	0.23	23.6	85	101
		T334	0.01	0.22	22.3	81	101
		T335	0.01	0.24	24.1	87	101
		T336	0.01	0.21	21.7	78	101
		T337	0.01	0.27	27.1	98	101
		T338	0.01	0.31	30.9	112	101
		T339	0.01	0.30	30.8	111	101
	4th Quarter '04	T332	0.01	0.23	19.5	85	84
		T333	0.01	0.24	19.9	87	84
		T334	0.01	0.22	18.4	80	84
		T335	0.01	0.24	20.3	88	84
		T336	0.01	0.24	19.8	86	84
		T337	0.01	0.24	20.2	88	84
		T338	0.01	0.31	25.7	112	84
		T339	0.01	0.32	27.1	118	84

300 Area, Annual Average \pm 2 Standard Deviation (2SD)

EDP Code	mrem/hr \pm 2SD	mrem/day \pm 2SD	mrem/qtr \pm 2SD	mrem/yr \pm 2SD
T332	0.01 \pm 0.001	0.23 \pm 0.01	21.0 \pm 1.3	84 \pm 5
T333	0.01 \pm 0.000	0.24 \pm 0.01	21.8 \pm 0.8	87 \pm 3
T334	0.01 \pm 0.001	0.22 \pm 0.01	20.5 \pm 1.0	82 \pm 4
T335	0.01 \pm 0.000	0.24 \pm 0.01	22.1 \pm 0.5	88 \pm 2
T336	0.01 \pm 0.001	0.22 \pm 0.02	20.4 \pm 2.1	82 \pm 8
T337	0.01 \pm 0.001	0.25 \pm 0.02	23.1 \pm 2.2	92 \pm 9
T338	0.01 \pm 0.001	0.31 \pm 0.02	27.9 \pm 2.1	111 \pm 8
T339	0.01 \pm 0.001	0.31 \pm 0.03	28.1 \pm 3.0	112 \pm 12

Table 4-2. 2004 TLD Results. (20 sheets total)

Location	Sample Period	EDP Code	mrem/hr	mrem/day	mrem/qtr	mrem/year	Days in Field
300 TEDF	1st Quarter '04	T326	0.01	0.23	21.1	85	91
		T327	0.01	0.22	20.1	81	91
		T328	0.01	0.23	21.0	84	91
		T329	0.01	0.24	21.5	86	91
		T330	0.01	0.23	21.0	84	91
		T331	0.01	0.22	20.3	81	91
	2nd Quarter '04	T326	0.01	0.25	21.2	90	86
		T327	0.01	0.25	21.6	92	86
		T328	0.01	0.25	21.1	90	86
		T329	0.01	0.24	20.3	86	86
		T330	0.01	0.22	18.7	79	86
		T331	0.01	0.24	21.0	89	86
	3rd Quarter '04	T326	0.01	0.23	23.7	86	101
		T327	0.01	0.24	23.9	86	101
		T328	0.01	0.24	23.9	86	101
		T329	0.01	0.23	23.0	83	101
		T330	0.01	0.22	22.1	80	101
		T331	0.01	0.24	24.4	88	101
	4th Quarter '04	T326	0.01	0.23	19.5	85	84
		T327	0.01	0.23	19.6	85	84
		T328	0.01	0.25	20.7	90	84
		T329	0.01	0.24	19.8	86	84
		T330	0.01	0.22	18.7	81	84
		T331	0.01	0.24	19.8	86	84

300 TEDF, Annual Average ± 2 Standard Deviation (2SD)				
EDP Code	mrem/hr ± 2SD	mrem/day ± 2SD	mrem/qtr ± 2SD	mrem/yr ± 2SD
T326	0.01 ± 0.001	0.24 ± 0.01	21.5 ± 1.2	86 ± 5
T327	0.01 ± 0.001	0.24 ± 0.03	21.5 ± 2.3	86 ± 9
T328	0.01 ± 0.001	0.24 ± 0.01	21.8 ± 1.3	87 ± 5
T329	0.01 ± 0.000	0.23 ± 0.01	21.3 ± 0.7	85 ± 3
T330	0.01 ± 0.001	0.22 ± 0.01	20.3 ± 1.1	81 ± 4
T331	0.01 ± 0.001	0.24 ± 0.02	21.6 ± 1.7	86 ± 7

Table 4-2. 2004 TLD Results. (20 sheets total)

Location	Sample Period	EDP Code	mrem/hr	mrem/day	mrem/qtr	mrem/year	Days in Field
300-FF-2 RA (300 Area)	2nd Quarter '04	T369	0.01	0.25	20.4	92	81
		T370	0.01	0.25	20.1	91	81
		T371	0.01	0.25	20.1	91	81
		T372	0.01	0.24	19.7	89	81
		T373	0.01	0.25	20.4	92	81
		T374	0.01	0.23	18.9	85	81
	3rd Quarter '04	T369	0.01	0.22	21.8	79	101
		T370	0.01	0.23	23.4	84	101
		T371	0.01	0.23	23.3	84	101
		T372	0.01	0.24	24.2	87	101
		T373	0.01	0.23	23.0	83	101
		T374	0.01	0.21	21.1	76	101
4th Quarter '04	4th Quarter '04	T369	0.01	0.23	19.4	84	84
		T370	0.01	0.23	19.0	83	84
		T371	0.01	0.24	20.5	89	84
		T372	0.01	0.25	20.8	90	84
		T373	0.01	0.23	19.4	84	84
		T374	0.01	0.31	26.4	114	84

300-FF-2, Annual Average \pm 2 Standard Deviation (2SD)				
EDP Code	mrem/hr \pm 2SD	mrem/day \pm 2SD	mrem/qtr \pm 2SD	mrem/yr \pm 2SD
T369	0.01 \pm 0.002	0.23 \pm 0.04	21.1 \pm 3.3	85 \pm 13
T370	0.01 \pm 0.001	0.23 \pm 0.02	21.4 \pm 2.1	86 \pm 9
T371	0.01 \pm 0.001	0.24 \pm 0.02	21.9 \pm 1.7	88 \pm 7
T372	0.01 \pm 0.000	0.24 \pm 0.01	22.2 \pm 0.7	89 \pm 3
T373	0.01 \pm 0.001	0.24 \pm 0.03	21.6 \pm 2.4	86 \pm 10
T374	0.01 \pm 0.005	0.25 \pm 0.11	22.8 \pm 10.0	91 \pm 40

Table 4-2. 2004 TLD Results. (20 sheets total)

Location	Sample Period	EDP Code	mrem/hr	mrem/day	mrem/qtr	mrem/year	Days in Field
400 Area	1st Quarter '04	T340	0.01	0.22	20.0	80	91
		T341	0.01	0.22	19.7	79	91
		T342	0.01	0.23	20.8	83	91
		T343	0.01	0.22	19.8	79	91
		T344	0.01	0.22	20.0	80	91
		T345	0.01	0.22	20.0	80	91
		T346	0.01	0.24	22.2	89	91
	2nd Quarter '04	T340	0.01	0.23	20.1	85	86
		T341	0.01	0.22	19.1	81	86
		T342	0.01	0.23	19.9	84	86
		T343	0.01	0.22	19.2	82	86
		T344	0.01	0.21	18.5	78	86
		T345	0.01	0.24	20.3	86	86
		T346	0.01	0.22	19.0	81	86
	3rd Quarter '04	T340	0.01	0.24	24.0	87	101
		T341	0.01	0.23	23.2	84	101
		T342	0.01	0.23	23.6	86	101
		T343	0.01	0.23	22.8	82	101
		T344	0.01	0.23	23.4	85	101
		T345	0.01	0.23	23.6	85	101
		T346	0.01	0.21	21.1	76	101
	4th Quarter '04	T340	0.01	0.24	20.0	87	84
		T341	0.01	0.23	19.5	85	84
		T342	0.01	0.22	18.5	81	84
		T343	0.01	0.23	19.6	85	84
		T344	0.01	0.23	19.1	83	84
		T345	0.01	0.23	19.3	84	84
		T346	0.01	0.24	19.9	86	84

400 Area, Annual Average \pm 2 Standard Deviation (2SD)

EDP Code	mrem/hr \pm 2SD	mrem/day \pm 2SD	mrem/qtr \pm 2SD	mrem/yr \pm 2SD
T340	0.01 \pm 0.001	0.23 \pm 0.02	21.2 \pm 1.5	85 \pm 6
T341	0.01 \pm 0.001	0.23 \pm 0.01	20.5 \pm 1.3	82 \pm 5
T342	0.01 \pm 0.001	0.23 \pm 0.01	20.9 \pm 1.1	83 \pm 4
T343	0.01 \pm 0.001	0.22 \pm 0.01	20.5 \pm 1.2	82 \pm 5
T344	0.01 \pm 0.001	0.22 \pm 0.02	20.4 \pm 1.4	82 \pm 5
T345	0.01 \pm 0.001	0.23 \pm 0.01	21.0 \pm 1.3	84 \pm 5
T346	0.01 \pm 0.001	0.23 \pm 0.03	20.7 \pm 2.9	83 \pm 11

Table 4-2. 2004 TLD Results. (20 sheets total)

Location	Sample Period	EDP Code	mrem/hr	mrem/day	mrem/qtr	mrem/year	Days in Field	
ERDF	1st Quarter '04	T351	0.01	0.26	23.5	95	90	
		T352	0.01	0.25	22.5	91	90	
		T353	0.01	0.25	22.9	93	90	
	2nd Quarter '04	T351	0.01	0.27	26.5	97	100	
		T352	0.01	0.27	26.6	97	100	
		T353	0.01	0.25	25.3	93	100	
	3rd Quarter '04	T351	0.01	0.24	21.6	88	90	
		T352	0.01	0.26	23.8	97	90	
		T353	0.01	0.32	28.5	116	90	
	4th Quarter '04	T351	0.01	0.23	25.0	85	107	
		T352	0.01	0.26	28.0	95	107	
		T353	0.01	0.27	28.9	99	107	
ERDF, Annual Average ± 2 Standard Deviation (2SD)								
EDP Code		mrem/hr ± 2SD		mrem/day ± 2SD		mrem/qtr ± 2SD		
T351		0.01 ± 0.001		0.25 ± 0.03		22.8 ± 2.8		
T352		0.01 ± 0.001		0.26 ± 0.02		23.8 ± 1.4		
T353		0.01 ± 0.003		0.27 ± 0.06		24.9 ± 5.4		
						91 ± 11		
						95 ± 5		
						100 ± 22		