

11/2/59

To: Dean Meyer, Group leader, H-1
From: John Enders, H-1
Subject: Disposal of solid radioactive trash; 3rd. quarter, 1959

General: Pit #1, Area "G"

The temporary fencing around the northe end of pit #1, Area "G", was removed during this quarter. Chain-link type fencing now extends around the entire area. The access gate is at the west end of the area. Signs have been checked out of Safety Stock for installation around the entire fenced area. These signs are identical to those now on the perimeter fences of other areas.

The exposed trash in this pit was covered once during this quarter. A second covering request was turned in in September, but the actual work was started in October. The covering that was done in October completed the second layer in this pit.

The Zia Refuse Department has kept a log of the mileage for the pick-up of boxed trash and for the 55 gallon drums from the waste treatment plants at TA-45 and Bld. 35, DP West. According to their figures on cost per mile for performing this work it appears that it costs about \$1.25 per drum and \$0.35 per box. These figures compare quite closely to those reported by memo, dated August 6, 1959.

Pit #6, Area "C"

This pit continued to receive non-routine solid trash during this quarter. A job order was submitted in September to cover this pit up to ground level. Work started on September 24 and was completed October 2nd. It is hoped that later on a rounded surface can be added to the top of the pit to promote drainage of water away from the pit.

This pit started to receive routine trash in February, 1956. From records kept on trash volume an estimated 8,857 cubic yards of routine trash was placed in the pit. During this year non-routine trash was placed in the pit. The total volume of trash would be about 10,000 cubic yards. The excavated volume of this pit was 34,894 cubic yards. From these figures one can assume that it took about 24,000 cubic yards of fill dirt to cover 10,000 cubic yards of trash or two and one-half cubic yards of dirt to cover one cubic yards of trash.

From records of trash disposal costs which were incurred during the time Pit #6 was in use(1956-57-58-59) and records of trash volume placed in the pit a cost per cubic yard of about \$20.00 has been determined.

Gamma Waste Disposal

During this quarter several deliveries were made to the disposal wells located between pits #4 and 5, Area "C". An order has been submitted to drill 55 more holes(2 ft. diam. X 15 ft. deep) between pits #1 and 3, Area "C". These new holes should provide disposal space for about two to three years. Some thought is now being given to the idea of a trench in Area "C" for disposal of gamma-active bulky objects that would be too large to be placed in the holes.



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The following is a tabulation of trash volumes and disposal costs. Cost figures have been rounded off and both volume and cost figures should be considered as estimates only. Data on costs was furnished by Dale Coburn, ENG-4, the Zia Refuse Department and Supply and Property Department, LASL. Volume estimates were taken from LA Notebook #9593.

Volume of trash:		Total Yds. ³
1.	Cardboard boxes(6,422 @ .087 yds. ³ ea.)	569
2.	Drums(163 @ .366 yds. ³ ea.)	60
3.	Large plastic bags(607 @ .47 yds. ³ ea.)	285
4.	Small plastic bags(976 @ .037 yds. ³ ea.)	36
5.	Miscellaneous scrap(estimated)	150
Total cubic yards:		1,100

Disposal Costs:		
1.	Boxes(6,422 @ 19¢ ea.)	\$1,220.00
2.	55 gal. drums(163 @ \$2.60 ea.)	424.00
3.	Large Plastic bags(607 @ 51¢ ea.)	309.00
4.	Small Plastic bags(976 @ 14¢ ea.)	136.00
5.	2" masking tape(400 rolls @ 64¢ ea.)	256.00
6.	Packaging trash(Janitor charge)	7,535.00
7.	Protective Clothing	50.00
8.	H-1 Monitor(200 mn/hr. @ \$4.35/hour)	870.00
9.	Fencing(extension around Pit #2, Area "G")	615.00
10.	Read and Ruin Excavation($\frac{1}{4}$ of 1/20 per year, balance as of 10/1/59=\$9,924)	135.00
11.	Excavate Pit #1, Area "G", (1/8 of \$3,140.00); Balance as of 10/1/59= \$2354.00	393.00
12.	D-7 Caterpillar Dozer Rental(\$150.00/month)	450.00
13.	Cover Pit #1(exposed trash)	633.00
14.	H-1 escort vehicle(#20325)	120.00
15.	One ten Ford truck(#20967)	120.00
16.	Boxed trash pickup by Dempster Dumpster	2,248.00
17.	55 gal. drum pickup by Dempster Dumpster	204.00
18.	Trash pickup by Zia Laborers	215.00
Total cost:		\$15,933.00

Cost per cubic yard= $\frac{\$15,933}{1100}$ = \$14.00/yd.³

Cost writeoff for Pit #6, Area "C":

1.	Fencing(1/10 per year=\$97.00 per quarter) Balance as of 10/1/59=\$2424.00	\$97.00
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