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INVENTORY 1953

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Notebook No. CL-1751

Issued To: W. D. Cottrell

Issued By: B. Howe

Date : 9-12-47

[redacted]

ChemRisk Document No. 2071

[redacted]

14 cm²
19 bmc - 50% self abs
for fission products

INVENTORY 195.

Classification Cancelled
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Position
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Fish from screen at W.O. Dam. ..... Page 158

FOUR SAMPLES OF MUD - 1" THICK

POSITION IN SAMPLE	GROSS	TARE	Net	Ave. Wt./IN MUD
6½-7"	39.24	.90	38.34	
0-1"	72.06	.90	71.16	70.4
1-2"	64.30	.90	63.40	
7-8"	71.39	.90	70.40	

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Source	Dish #	Tare gm	Gross gm	Net gm	using 13.8 cm² gm/cm²	3 Oct 47 First Count	Factor from graph c/m/g
J. Pond mud (#1)	32	11.77	14.46	2.69	.1240 wet vs dry	9729	5690 deter
" Self Absorp.	34	13.44	14.34	0.90	.0652	10,106	11240
{6' east of iron	35	12.06	12.60	0.54	.0392	7,245	13400
post near end	36	11.64	11.82	0.18	.0131	2,844	15800
of Intermed. Pond}	37	11.26	13.46	2.20	.1594	14,895	6770
	38	11.64	12.78	1.14	.0827	10,912	9570
18 Sept	39	12.15	12.46	0.31	.0225	5370	17,300
	40	13.07	16.27	3.20	.2320	15,896	4,970
	42	12.31	13.36	1.05	.0761	10,881	10,360
	43	11.52	12.73	1.21	.0877	11,389	9,400
Stratification 1"	41	13.12	13.74	0.62	.0449	55,548	89,600
2nd "	44	11.74	12.57	0.83	.0601	45,927	55,400
3rd "	46	11.43	12.43	1.00	.0725	4,297	4,297
4th "	48	11.68	13.03	1.35	.0978	3,159	2,340
5th "	49	12.21	13.49	1.28	.0927	2,567	2,010
6th "	50	13.65	15.26	1.61	.1167	2,578	1,600
7th "	52	11.73	12.82	1.09	.0790	1,692	1,550
[illegible] 8th "	53	12.20	13.70	1.50	.1086	243	162
J. Pond mud (#2)	55	11.82	13.45	1.63	.1181	89,776	55,100
1st " 2"	56	11.80	13.27	1.47	.1065	89,812	61,100
3"	57	11.90	13.32	1.42	.1030	10,520	7,420
10' north 4"	61	11.90	13.30	1.40	.1015	2,635	1,880
of iron post 5"	63	12.04	15.53	3.49	.2530	4,900	1,400
[illegible] 6"	60	11.50	14.65	3.15	.2283	3,748	1,190
7"	59	11.63	14.78	3.15	.2283	2,659	846
Intermed. Pond 8"	58	12.40	14.19	1.79	.1297	954	533
9"	54	11.55	12.55	1.00	.0725	283	283
10"	62	13.54	17.32	3.78	.2740	86	23
11"	81	11.59	16.67	5.08	.3680	490	96

30 Oct 47 First Count	factor from graph 2 * c/m/g	corrected c/m/g	μc/gm	length	μc/sq ft	10/27/47 additional counts
9729	5690 determination		Gross Dry = 13.48			Net dry = 1.71 F = .637
10,106	11240	17700	7.97×10^{-2}	8"		11,615
7,245	13400					
2,844	15800					
14,895	6770					14,899
10,912	9570					11,497
5370	17,300					
5,896	4970					17,837
10,881	10,360					10,687
11,389	9,400					11,547
55,548	89,600	1.4 125,300	5.65×10^{-1}			56,940
5,927	55,400	1.56 86,400	3.88×10^{-1}			46,602
4,297	4,297	1.7 7,300	3.29×10^{-2}			
2,159	2,340	1.96 4,590	2.07×10^{-2}			
2,569	2,010	1.9 3,820	1.72×10^{-2}			
2,578	1,600	2.16 3,460	1.56×10^{-2}			
692	1,550	1.67 2,590	1.17×10^{-2}			
243	162	2.08 337	1.52×10^{-3}			
7,776	55,100	2.18 120,000	5.40×10^{-1}	$10\frac{1}{2}$"		90,234
1,812	61,100	2.05 125,100	5.63×10^{-1}			72,400
536	7,420	2.01 14,900	6.71×10^{-2}			11,215
635	1,880	2.00 3,760	1.69×10^{-2}			
4,900	1,400	3.81 5,330	2.40×10^{-2}			5,071
748	1,190	3.44 4,160	1.87×10^{-2}			3,798
659	846	3.49 2960	1.33×10^{-2}			
954	533	2.30 1230	5.54×10^{-3}			
283	283	1.70 480	2.16×10^{-3}			
86	23	4.15 95	4.27×10^{-4}			
190	96	? ?				

aver. 1.32×10^{-1}

LOCATION: Spillway area #1 Below Dam
40' toward channel from stake
Length of cove - 10 m.

Date	6 Descript Source	Dish	Gross	Tare	Net (gm)	gm/cm²	First Count 10/8/67	C/M/cm²
6 Oct.	Ex. dry - 16.06 Wet-dry sample	82	17.34	12.52	Net. DRY 4.82 3.54		204	58
	aff. aberation	83	14.10	13.04	1.06	.0767	108	102
	" "	84	13.72	11.54	2.18	.1580	163	75
	" "	85	14.39	11.66	2.73	.1980	186	68
	" "	86	16.75	12.77	3.98	.289	234	59
	" "	87	13.56	12.26	1.30	.0942	121	93
	" "	88	16.18	10.50	5.68	.412	289	51
	1st inch	89	15.06	12.04	3.02	.219	2,165	717
	2nd "	90	16.06	12.96	3.10	.225	406	131
	3rd "	91	13.84	10.98	2.86	.207	315	110
	4th "	92	12.66	10.61	2.05	.149	30	15
	5th "	93	13.65	12.69	0.96	.0696	13	14
	6th "	94	11.70	11.28	0.42	.0305	13	31
	7th "	95	15.14	14.19	0.95	.0688	13	14
	8th "	96	14.50	12.44	2.06	.149	14	7
	9th "	97	11.81	10.76	1.05	.0761	5	5
	10th "	98	14.26	12.33	1.93	.140	10	5
	Location: Lake #1 middle above cross trees - 60' upstream						7" sample	
	Wet-dry.	99	(WET) DRY 16.49 15.18	5.75 9.44 10.74	1.23		20	5
	Aff. aberation	100	15.40	11.26	4.14	.300	16	4
	" "	101	15.12	11.63	3.49	.253	17	5
	" "	102	12.60	10.41	2.19	.159	8	4
	" "	103	13.63	11.92	1.71	.124	21	17
	" "	104	14.27	11.24	3.03	.220	5	2
	" "	105	15.31	11.53	3.78	.274	18	5
	" "	106	16.21	10.85	5.36	.388	12	2
	" "	107	12.01	10.99	1.02	.0732	9	9
	1st inch	108	12.68	10.36	2.32	.168	25	11

[illegible]	C/m/gm	Absorp Factor	Correct. C/m/g	μc/gm	[illegible]	μc/ft²	Later Counts 10/27/47
204	58						wet-dry ratio .735
108	102 ✓						
163	75 ✓						
186	68 ✓	est →	128	5.76×10^{-4}			
234	59						← 189
121	93 ✓						
281	51						297
165	717	2.0	1434	6.45×10^{-3}	10"		2,191
406	131	2.04	267	1.24×10^{-3}			414
215	110	[illegible]	211	9.50×10^{-4}			252
30	15	[illegible]	24	1.08×10^{-4}			
13	14	1.25	18	8.10×10^{-5}			
13	31	1.10	34	1.53×10^{-4}			
13	14	1.28	18	8.10×10^{-5}			
14	7	[illegible]	11	4.95×10^{-5}			
5	5	1.25	6	2.7×10^{-5}			
10	5	1.56	8	3.6×10^{-5}			
[illegible]							
10	5						wet-dry ratio .773
16	4						
17	5 ✓						
8	4 ✓						
1	12 ✓						
5	2 ✓						
8	5 ✓						
2	2						
9	9 ✓						
25	11	3.7	41	1.85×10^{-4}	7"		0

← avg 203

counts too low to be accurate enough for suitable self abs.

(used 22)

DATE: 10/8/47

LOCATION: See middle of Page 6. Water Samples: See remarks →

SOURCE - DESCRIPTION	DISH NUMBER	GROSS WTS	TARE WTS.	NET WTS.	GM/CM²	10/9/47 FIRST COUNTS	CM/GM
2nd inch	109	15.12	12.68	2.44	.177	20	8
3rd "	110	14.23	11.74	2.49	.181	7	3
4th "	111	14.67	12.00	2.67	.194	16	6
5th "	112	14.80	12.34	2.46	.178	9	4
6th "	113	15.31	12.26	3.05	.221	9	3
7th "	114	13.79	11.35	2.44	.177	14	6
Water Samples - 10/8/47							
#6 Superintent	115	12.4506	10.8906	1.5600			
#6 "	116	~~12.3106~~	10.2771	3.0329			
3 "	117	~~14.6762~~	13.1444	1.3849			
3 "	118	~~14.0538~~	12.8692	1.2186			
1 "	119	13.1305	12.2709	.8596			
1 "	120	13.3405	11.6247	2.7658			
4 "	121	14.8116	10.9827	3.8289			
4 "	122	13.4442	11.5247	1.8895			
2 "	123	13.6637	12.2390	1.4247			
7 "	124	12.4673	11.6347	.8326			
7 "	125	12.8540	11.8960	.9580			
2 "	126	14.2884	12.5597	1.7287			
5 "	127	13.9030	12.2900	1.6130			
5 "	128	13.3835	11.4771	1.9064			
Salt - 10/13/47							
#1 Authority Sam	129	12.1495	11.7106	.4389			
#2 " "	130	12.8583	12.4737	.3846			
#3 " "	131	11.7665	11.3273	.4392			

REMARKS:

Specimen	Date	Source
1	10/3/47	H.O. Dam
2	10/3/47	S.B.
3	10/6/47	H.O. Dam
4	10/6/47	S.B.
5	10/7/47	H.O. Dam
6	10/7/47	S.B.
7	10/8/47	S.B.

10/9/47

FIRST COUNTS	CM/GM	ABSORPTION FACTOR	CORRECT CM/GM	mc/gm LENGTH	mc/ft²	LATER COUNTS
20	8	3.9	31	1.39×10^{-4}		
7	3	4.1	12	5.4×10^{-5}		
16	6	4.5	27	1.22×10^{-4}		
7	4	4.0	16	7.2×10^{-5}		
9	3	5.5	17	7.7×10^{-5}		
14	6	4.0	24	108×10^{-4}		

CV-1757

DATE:

LOCATIONS:

Activity Samples (continued)

SOURCE-DISCRIPTION	DIGH NO.	GROSS WT.	TARE WTS.	NET WTS.	gm/cm²	FIRST COUNTS	cm/gm²
#4	132	13.5570	13.0974	.4596	✓		
#5	133	11.8040	11.3245	.4795	✓		
#6	134	12.6690	12.2150	.4540	✓		
#7	135	11.9861	11.4514	.5347	✓		

REMARKS:

FIRST COUNTS	cm/cm	ABSORBSION CORRECT. FACTOR	c/m/g	mc/gm	LENGTH	mc/sqft.	ADDITIONAL COUNTS

12

13.

DATE 14 OCT.

LOCATION, ETC UPPER END [illegible] 10/28/47

UEC WO LAKE	DISH #	GROSS	TARE	NET GM	GM/cm²		FIRST COUNT	c/m/gm
1ST INCH FROM TOP	176	14.9738	13.7805	1.1953	.0865		2,830	2,370
2ND	177	14.4031	13.3544	1.0487			392	
3RD	178	14.3056	12.5601	1.7455			144	
4TH	179	15.0579	13.0682	1.9897			45	
5TH	180	13.9342	12.4214	1.5128			0	
6TH	181	14.3773	12.8940	1.4833			45	
Wet-Dry	182	W: 15.2358 D: 13.8988	11.5806	W: 3.6552 D: 2.3182			1461	
SELF ABSORPTION	183	14.0142	12.9555	1.0584			1026	
"	184	15.3100	15.5145				959	
"	185	13.2315	12.5659	.6626			720	
"	186	11.5378	11.2554	.2824			374	
"	187	14.2712	12.6189	1.6523			1247	
W.O.C. UUD (A)								
1ST INCH FROM TOP	188	15.2748	15.1288	.1460	.0106		18,904	129,6[illegible]
2	189	13.5573	12.2071	1.3502			163	
3	190	13.5800	12.3955	1.1845			203	
4	191	13.4435	11.5729	1.8706			32	
5	192	13.4135	11.6999	1.7136			5	
6	193	13.6909	11.8941	1.7968			0	
7	194	12.8975	12.5340	.3635			45	
8	195	13.4920	12.5340	.9580			59	
WET, DRY SAMPLE	147	W: 15.9396 D: 14.8480	11.1563	W: 4.8034 D: 3.7128			3,011	
W.O.C. Mud (B)								
SELF ABSORPTION	196	14.4308	13.1109	1.3199			1854	
" "	197	13.3931	11.9579	1.4352			1238	
" "	198	15.2355	12.6320	2.6035			2533	
" "	199	14.3588	12.9670	1.3918			2021	

10/28/47 WHITE OAK CREEK 30' UPSTREAM, UPPER DYKE ④

FIRST COUNT	c/m/gm	ABSORP. CORR.	c/m/cc	μc/cm.	LENGTH	μc/ft²	ADDITIONAL	COUNTS	
2,830	2,500								
392									
144									
45									
0									
45									
1461									
1026									
959									
725									
374									
1247									
18,904	179,600								
163									
203									
32									
5									
0									
45									
59									
3,011									
1854									
1238									
2533									
2,029									

DATE: OCTOBER 14, 194[illegible]

LOCATION UPER END, CENTER WHITECAN LAKE

	DISH NO.	GROSS	TARE	GRAM NET-WTS.	GM/CM²	FIRST COUNT	c/m/gm
[illegible]							
SELF ABSORP.	200	15.1378	13.0319	2.1059		2,408	
" "	201	12.8303	12.2244	.6059		1157	
RIGHT-END - LOWER LAKE							
1" FROM TOP	202	13.6418	12.4470	[illegible]	.0165	990	828
2	203	13.6233	12.7000	.9233		0	
3	204	13.9246	12.6466	1.2780		0	
4	205	13.4309	12.3697	1.0612		0	
5	206	13.3701	12.1025	1.2676		0	
6	207	14.0941	13.3986	1.5955		0	
SELF ABSORPTION	208	14.5028	13.1894	1.3134		153	
" "	209	11.8839	11.4841	.3998		144	
" "	210	14.4500	12.4951	1.9549		194	
" "	211	15.8492	14.2291	1.6201		175	
" "	212	13.1150	12.4206	.6944		49	
#2 UPER DYKE (B)							
SELF ABSORPTION	213	13.1665	11.7819	1.3846		3,231	
" "	214	11.7054	10.8769	.8285		2,354	
" "	215	14.5118	12.7050	1.8068		3,681	
" "	216	13.1057	11.4095	1.6962		√3,645	
" "	217	13.1936	11.1267	2.0669		3,919	
1 INCH FROM TOP	218	14.4762	13.6861	.7901	.05[illegible]	13,585	[illegible]
2	219	12.7430	11.6210	1.1220		6,008	
3	220	12.8553	11.4152	1.4400		1,449	
4	221	13.8617	12.4312	1.4305		630	
5	222	13.1277	11.6008	1.5269		257	
6	223	12.9872	11.8596	1.1276		405	
7	224	13.8270	11.7727	2.0543		261	

WHITE OAK CREEK 30' UPSTREAM, UPER DYKE (3)

c/m/gm	ABSORP CORR	Cm/Gr	mc/gm	LENGTH m/ft²	ADDITIONAL COUNTS.
928					
17,180					

DATE: Oct. 14

LOCATION: W.O. Cliff 35' upstream upper Dyke (B) 10/28/47

TIPER - DIKE (A)	DISH #	GROSS	TARE	NET GR gm/cm²	FIRST COUNTS	cm/gm
8. STRATIFICATION	225	13.8715	12.3222	1.5493	0	
9. "	226	12.3172	10.8024	1.5148	68	
WET, DRY SAMPLE	47	W-13.7733 D-13.1390	11.3506	W 2.4227 D 1.7884	3,3	

10/31/47 Special Assay of mud & Hut 11/3/47 from

mud - Ditch - below Quonset Hut	258	13.4411	11.2300	2.2111	256	
" - Ditch - where overflow Canetrun Tank Fo	259	13.4250	11.6467	1.7783	868	
" " below Quonset Hut	260	16.7201	13.5556	3.1645	364	

upper Dyke (B)

1st from Tap	218	14.4762	13.6861	
2nd " "	219	12.7430	11.6210	
3rd " "	220	12.8553	11.4153	
4th " "	221	13.8617	12.4312	
5th " "	222	13.1277	11.6008	
6 " "	223	12.9872	11.8596	
7 " "	224	13.8270	11.7727	
8 " "	225	13.8715	12.3222	
9 " "	226	12.3172	10.8024	
Wet, Dry Sample	47	W-13.7733 D-13.1390	11.3506	
Self Absorption	213	13.1665	11.7819	1.3846
" "	214	11.7054	10.8769	.8285
" "	215	14.5118	12.7050	1.8068

Dyke Cut Pg 14

DYKE (13)

1/28/47 FIRST COUNTS.	cm/gm	ABSORP. CORR.	cm/gm	mc/gm	LENGTH	mc/FT²	ADDITIONAL COUNTS.
0							
68							
344							
1/3/47	from overflow of Tank #1 & #2 in Tank farm 10/31/47						
120							
256							
868							
364							

See page 14

18. *} Two no. 8 samples (from 8th inch)

Date: October 14, 1947 W.O. Lake - Left end low

Location	Dish #	Gross Tare	Net gm. GM/cm²	First Count c/m/g
Lower Lake - Left end		W-13.8773		
Wet - Dry Sample	307	D-13.1362 11.4749		505
Self Absorption	308	11.4396 10.7575		279
" "	309	12.5976 11.6314		382
" "	310	13.7394 11.8914		517
" "	311	13.7556 12.5450		422
" "	312	13.5278 12.5708		319
" "	313	12.8276 12.2885		216
1st Stratification	314	11.5483 10.8867		2930
2 "	315	11.4034 10.8953		374
3 "	316	12.2077 11.6230		349
4 "	317	12.3171 11.5201		372
5 "	340	12.6128 11.6451	.9677	499
6 "	318	12.6613 12.0840	.5773	290
7 "	341	12.7586 12.4302	0.3284	182
8 * "	342	12.7423 12.2739	0.4684	241
8 * "	343	11.9815 11.4317	0.5498	202
9 "	344	12.2401 11.5633	0.6768	150
10 "	345	11.8403 11.5143	0.3260	120
11 "	346	11.3443 11.1130	0.2313	111
12 "	347	11.8451 10.7307	0.1144	66
13 "	348	12.7211 12.4134	0.7047	22
14 "	349	15.1732 13.5510		30
15 "	350	12.3834 11.2493		10
16 "	351	13.9472 11.6004		19
17 "	352	13.0350 12.3668		22

t and lower lake.

inst count	c/m/gm	Absorp. corr.	c/m/G_o	μc/gm	Length	μc/ft²	Additional	counts
505							917	
279							454	
382								
-17							154	
-22								
319								
216								
930								
374								
349								
372								
499								
290								
182								
241								
202								
150								
20								
111								
66								
22								
30								
10								
19								
22								

ocation of Sample	Dish No.	Gross Wt	Tare Wt	Net Wt	Thickness Counting Samp Gm/cm²	C/m. Gross	C/m/gm	Absorption Correction
7. 26-Spillway	815	11.3705	10.8106	.5599	.0406	14	25	1.28
" 29- " "	816	11.4905	10.2455	1.2450	.0902	55	22	1.60
" 27 " "	817	12.1580	10.8078	1.3492	.0978	248	184	1.65
" 28 " "	818	12.7964	12.3038	.4926	.0357	86	175	1.22
" 36 " "	819	11.5368	10.6579	.8789	.0637	131	149	1.41
" 34 " "	820	14.0622	12.6844	1.3778	.0998	185	134	1.66
40 " "	821	11.5430	10.6642	.8788	.0637	25	29	1.41
" 33 " "	822	11.4944	11.0485	.4459	.0323	308	69	1.21
" 49 " "	823	12.9183	10.8690	2.0493	.1485	206	83	2.00
" 35 " "	824	11.3547	10.9894	.3653	.0265	35	96	1.17
" 59 " "	825	11.2998	10.6502	.6496	.0471	162	248	1.30
" 58 " "	826	11.8582	10.1757	1.6825	.1219	88	52	1.83
" 53 " "	827	11.6281	11.0630	.5651	.0409	55	97	1.25
" 54 " "	828	13.9107	12.8085	1.1022	.0799	372	337	1.52
" 57 " "	829	12.2477	11.0627	1.1850	.0859	24	20	1.57
" 46 " "	830	13.2935	12.4398	.8537	.0619	121	142	1.39
" 41 " "	831	11.4665	10.6541	.8124	.0589	22	27	1.38
" 32 " "	832	13.0078	12.5657	.4421	.0320	114	254	1.20
" 25 " "	833	11.3738	10.1378	1.2360	.0896	517	418	1.59
" 31 " "	834	11.6889	11.2609	.4280	.0310	71	166	1.19
" 39 " "	835	12.3940	10.8050	1.5890	.1151	266	167	1.77
" 42 " "	836	13.6594	13.1821	.4773	.0346	191	401	1.22
" 38 " "	837	13.5890	12.7457	.8433	.0611	96	114	1.39
" 51 " "	838	11.1372	10.5180	.6192	.0449	206	333	1.28
" 47 " "	839	11.0958	10.6957	.4001	.0290	40	100	1.18
" 43 " "	840	12.2060	10.5644	1.6416	.1190	504	307	1.75
" 37 " "	843	13.3627	12.5160	.8467	.0614	246	291	1.39
" 44 " "	844	11.2188	10.5733	.6455	.0468	608	943	1.29

Absorption Correction	C/m/gm.	c/m × 1/(.10 × 2.22 × 10^6) μC/gm. Dry Wt.	×.748 μC/gm. Wet Wt.	2.82 × 10^-2 μC/Core (3")	.458 × 10^-2 μC/ft² 3" Layer	×1.22 μC/ft² Total	Area Represented	Total Curies
1.28	32	1.44 × 10^-4	1.08 × 10^-4	3.04 × 10^-2	1.392	1.698		
1.60	35	1.57 × 10^-4	1.17 × 10^-4	3.30 × 10^-2	1.512	1.845		
1.65	302	13.60 × 10^-4	10.17 × 10^-4	28.6 × 10^-2	13.10	15.982		
1.22	212	9.54 × 10^-4	7.14 × 10^-4	20.6 × 10^-2	9.43	11.505		
1.41	210	9.45 × 10^-4	7.70 × 10^-4	21.8 × 10^-2	9.99	12.188		
1.66	221	9.99 × 10^-4	7.46 × 10^-4	21.0 × 10^-2	9.62	11.736		
1.41	41	1.85 × 10^-4	1.38 × 10^-4	3.89 × 10^-2	1.78	2.171		
1.21	836	37.65 × 10^-4	28.16 × 10^-4	79.4 × 10^-2	36.38	44.384		
2.00	166	7.47 × 10^-4	5.58 × 10^-4	15.7 × 10^-2	7.19	8.772		
1.17	122	5.49 × 10^-4	4.11 × 10^-4	11.6 × 10^-2	5.32	6.490		
1.30	321	14.45 × 10^-4	10.81 × 10^-4	30.5 × 10^-2	13.98	17.056		
1.83	86	3.87 × 10^-4	2.90 × 10^-4	8.18 × 10^-2	3.75	4.575		
1.25	115	5.18 × 10^-4	3.88 × 10^-4	10.9 × 10^-2	4.99	6.088		
1.52	512	23.04 × 10^-4	17.27 × 10^-4	48.6 × 10^-2	22.20	27.084		
1.57	31	1.39 × 10^-4	1.04 × 10^-4	2.93 × 10^-2	1.34	1.635		
1.39	198	8.92 × 10^-4	6.67 × 10^-4	18.8 × 10^-2	8.61	10.504		
1.38	37	1.67 × 10^-4	1.25 × 10^-4	3.51 × 10^-2	1.61	1.964		
1.20	322	14.50 × 10^-4	10.85 × 10^-4	30.6 × 10^-2	14.02	17.104		
1.59	665	29.92 × 10^-4	22.4 × 10^-4	63.3 × 10^-2	29.00	35.380		
1.19	197	8.87 × 10^-4	6.64 × 10^-4	18.7 × 10^-2	8.57	10.455		
1.77	296	13.32 × 10^-4	9.99 × 10^-4	28.1 × 10^-2	12.87	15.701		
1.22	500	22.50 × 10^-4	16.84 × 10^-4	47.5 × 10^-2	21.75	26.535		
1.39	158	7.11 × 10^-4	5.32 × 10^-4	15.0 × 10^-2	6.87	8.381		
1.28	426	19.16 × 10^-4	14.34 × 10^-4	40.4 × 10^-2	18.51	22.582		
1.18	118	5.32 × 10^-4	3.98 × 10^-4	11.2 × 10^-2	5.13	6.158		
1.75	537	24.09 × 10^-4	18.02 × 10^-4	50.8 × 10^-2	23.26	28.377		
1.39	405	18.23 × 10^-4	13.64 × 10^-4	38.4 × 10^-2	17.6	21.472		
1.29	1218	54.80 × 10^-4	41.0 × 10^-4	115.7 × 10^-2	53.0	64.660		

See next page.

Location of Sample	Dish No.	Gross Wt.	Tare Wt.	Net Wt.	Thickness Counting Sample Gm/cm²	C/m gross	C/m/gm.	Absorption Correction
Rt. 45-Spillway	845	14.4657	13.0290	1.4367	.1041	541	377	1.76
48V "	846	11.2085	10.7522	.4563	.0333	220	483	1.33
50V "	847	13.7976	12.9770	.8206	.0594	179	217	1.38
56 "	848	11.3585	10.4880	.8705	.0631	601	690	1.41
30V "	849	13.5961	12.6817	.9144	.0663	25	27	1.43
Spillway Area	851	11.5047	10.2892	1.2155	.087	223	186	1.61
Self Absorption	852	13.1725	10.6750	2.4975	.179	352	141	2.13
	853	11.1501	10.4096	.7405	.054	165	223	1.35
	854	12.9280	10.5456	2.3824	.171	350	147	2.02
	855	11.5361	10.0252	1.5109	.109	254	168	1.79
	856	13.3505	10.5954	2.7551	.198	336	122	2.46

40 2.82
1 2 3 .12
6 [illegible]

Absorption Correction	C/m/gm.	Mc/gm Dry Wt.	Mc/gm. Wet Wt.	Mc/Core	Mc/ft.² 3rd Layer	Mc/ft² Total	Area Represented	Total Curies
1.70	641	28.82×10^{-4}	21.43×10^{-4}	60.5×10^{-2}	27.71			
1.33	643	28.91×10^{-4}	21.59×10^{-4}	60.9×10^{-2}	27.86			
1.38	300	13.50×10^{-4}	10.1×10^{-4}	28.5×10^{-2}	13.1			
1.41	✓987	44.30×10^{-4}	33.2×10^{-4}	93.6×10^{-2}	42.8			
1.43	39	1.75×10^{-4}	1.31×10^{-4}	3.69×10^{-2}	1.69			
		491.63		Total	475.954			
		33 Sample Average			14.423			
	Ave.	1.490×10^{-4}			× 1.22			OK.
					28846 28846 14423			
					17.596	17.596	6.9 A	5.289
							300,564 sq ft	
1.61	299							
2.13	300							
1.35	301							
2.02	297							
1.79	300							
2.46	300							

×43,560 ft²

Location of Sample	Dish No.	Gross Weight	Tare Weight	Net Weight	Thickness Counting Sample Gm/Cm²	C/min Gross	C/m/gm.	Absorption Correction	
#1 Spillway Stratif. 7th in	882	11.4666	10.2360	1.2306	.0892	23	19		1.58
" " 6th in	883	13.2537	12.7448	.5089	.0369	20	39		1.23
" " 5th in	884	10.9633	10.5156	.4477	.0324	24	53		1.21
" " 4th in	885	11.2429	10.6976	.5453	.0396	29	53		1.25
" " 3rd in	886	12.9854	12.5752	.4102	.0297	23	56		1.18
" " 2nd in	887	13.3451	12.9281	.4170	.0302	44	105		1.19
" " 1st in	888	11.1148	10.8157	.2991	.0217	149	498		1.13
#2 Spillway Stratif. 1st in	889	11.1564	10.9041	.2523	.0183	227	898		1.12
" " 2nd in	890	12.8124	12.5065	.3059	.0221	77	251		1.14
" " 3rd in	891	12.6869	12.4003	.2866	.0207	41	143		1.13
" " 4th in	892	10.4011	10.0778	.3233	.0234	28	87		1.15
" " 5th in	893	10.6922	10.3432	.3490	.0253	22	63		1.16
" " 6th in	894	11.2109	10.8877	.3232	.0234	23	71		1.13

bsorption rection	C/m/gm	Mc/gm Dry. Wt.	Mc/gm. Wet Wt.	Mc/in Core length	% Total Act. Represented
1.58	30	1.35×10^{-4}			3.16
1.23	48	2.16×10^{-4}			5.00
1.21	64	2.88×10^{-4}			6.65
1.25	66	2.97×10^{-4}			6.85
1.18	66	2.97×10^{-4}			6.85
1.19	125	16.4×10^{-4}			13.00
1.13	563	25.4×10^{-4}			58.5
1.12	1005	45.4×10^{-4}			59.0
1.14	286	12.9×10^{-4}			16.8
1.13	160	7.22×10^{-4}			9.4
1.15	100	4.50×10^{-4}			5.9
1.16	73	3.29×10^{-4}			4.2
1.13	80	3.61×10^{-4}			4.7

Av. % Activity first 3" 81.83%

Factor by which 3" depth activity is multiplied 1.22

56

÷13.8

Location of Sample	Dish No.	Gross Wt.	Tare Wt.	Net Wt.	Thickness Counting Sample gm/cm²	C/m Gross	C/m/gm	Absorption Correction	
Pt. #52 Above U. Dyke	865	11.7047	11.1650	.5397	.0390	2778	5147		1.25
" 78 " " "	866	11.3820	10.8397	.5423	.0394	3062	5646		1.25
" 79 " " "	867	12.8866	12.5503	.3363	.0244	977	2905		1.15
" 80 " " "	868	10.8633	10.4820	.3813	.0276	776	2035		1.17
" 86 " " "	869	11.4360	10.8068	.6292	.0456	5405	8749		1.28
" 87 " " "	870	10.9129	10.2265	.6864	.0498	1372	2122		1.31
" 91 " " "	871	11.4078	10.8918	.5160	.0374	454	879		1.23
" 98 " " "	872	11.7228	11.2342	.4886	.0354	496	1015		1.22
1 STRATIFICATION									
st in Stratification Above U. Dyke	907	11.3787	11.0221	.3566	.0258	1085	3042		1.16
nd "	908	10.9640	10.7099	.2541	.0184	731	2876		1.12
rd "	909	11.3515	10.9710	.3805	.0276	257	675		1.17
th "	910	13.0336	12.6241	.4095	.0296	110	269		1.18
th "	911	11.5414	11.0601	.4813	.0349	98	361		1.22
th "	912	10.9965	10.6450	.3515	.0254	50	142		1.15
th "	913	10.9647	10.5689	.3963	.0287	30	77		1.18
th "	914	13.3755	12.9529	.4226	.0306	29	64		1.19
2 STRATIFICATION									
st in Stratification Above U. Dyke	915	11.3262	10.9797	.3465	.0250	1754	5062		1.15
nd "	916	10.4525	10.2501	.2024	.0148	848	4190		1.09
rd "	917	10.8567	10.5270	.3297	.0239	205	622		1.14
th "	918	13.0242	12.6986	.3256	.0236	92	282		1.14
th "	919	10.7808	10.4972	.2836	.0205	74	260		1.13
th "	920	10.6498	10.1811	.4687	.0340	41	87		1.21

O.K.

Ave. % Activity first
Factor by Which 3" d

Absorption Correction	C/m/gm.a	C/m x 1/.10x2.2	x .748	x 2.82x10²	x 45.8				
		Mc/gm Dry Wt.	Mc/gm. Wet Wt.	Mc/Core(3")	Mc/ft² 3" Layer	Mc/ft² Total	Area Represented	Total Curies	
1.25	6433	2.895x10⁻²	2.16x10⁻²	6.09	278.92				
1.25	7057	3.180x10⁻²	2.38x10⁻²	1.73	308.10				
1.15	3343	1.337x10⁻²	1.00x10⁻²	2.82	129.20				
1.17	2380	1.060x10⁻²	.794x10⁻²	2.16	99.22				
1.28	11180	5.030x10⁻²	3.76x10⁻²	10.22	468.08				
1.31	2778	1.250x10⁻²	.936x10⁻²	2.58	118.20				
1.23	1082	.479x10⁻²	.358x10⁻²	1.01	46.26				
1.22	1238	.557x10⁻²	.417x10⁻²	1.13	51.754				
		15.79x10⁻²	Total		1499.73				
	Ave =	1.97x10⁻²	8 Sample Ave =		187.46				
1.16	3532					204.33			
1.12	3219								
1.17	789								
1.18	317								
1.22	441								
1.15	163								
1.18	91								
1.19	76								
1.15	5802								
1.09	4568								
1.14	697								
1.14	321								
1.13	294								
1.21	105								

vity first 3" = 91.00

Which 3" depth Activity Multiplied = 1.09

58

O.K.

Location of Sample	Dish No.	Gross Wt.	Tare Wt.	Net Wt.	Thickness Gm/Cm²	C/m Gros.	C/m/gm	Absorption Correction	
Point #68 Below Upper Dyke	897	13.1957	12.7556	.4401	.0219	1846	4194		1.20
" 77	898	11.0422	10.4615	.5807	.0421	821	1413		1.27
81	899	11.2322	10.6566	.5756	.0417	5133	8917		1.2[illegible]
88	900	11.0675	10.5187	.5488	.0398	3672	6690		1.2[illegible]
82	901	11.2010	10.4771	.7239	.0574	8059	11132		1.3[illegible]
90	902	11.8091	10.9292	.8799	.0638	2501	2842		1.4
84	903	13.5088	12.8924	.6164	.0447	1148	1862		1.2[illegible]
94	904	11.4170	11.0476	.3694	.0268	314	850		1.[illegible]
97	905	11.3152	10.6337	.6815	.0494	3496	5129		1.3[illegible]
96	906	13.3597	12.8123	.5474	.0397	1245	2274		1.2[illegible]
67	895	11.0583	10.4855	.5728	.0415	39	63		1.26
75	896	11.7146	11.1943	.5203	.0377	1038	1988		1.24
#1 Stratification Below Upper Dyke.									
First inch	923	13.2670	12.9255	.3415	.0247	2657	7780		1.16
2nd "	924	10.8475	10.5303	.3172	.0230	1040	3278		1.14
3rd "	925	11.3759	11.0055	.3704	.0268	247	667		1.25
4th "	926	11.2512	10.8987	.3525	.0255	241	684		1.1[illegible]
5th "	927	11.4638	11.1753	.2885	.0209	277	960		1.13
6th "	928	11.1550	10.8131	.3419	.0248	268	784		1.1[illegible]
7th "	929	10.7153	10.4132	.3021	.0219	366	1211		1.13
8th "	930	13.5594	13.3035	.2559	.0185	244	953		1.12
9th "	931	13.0574	12.7788	.2786	.0202	37	133		1.1[illegible]

* Ave % Actv. in 1st 3"

Factor by which 3" Depth Actv. is Mul[illegible]

* Ave. % Actv. is from 2 Stratification Samples

Absorption Correction	C/m/gm	μc/gm Dry Wt	μc/gm Wet Wt	μC/Core 3"	μc/ft² 3" Layer	μc/ft² Total	Area Represented	Total Curies
		$\times \frac{1}{1.322 \times 10^{-4}}$	$\times \frac{1}{1.322 \times 10^{-4}} \times .756$	$\times .748$	$\times 2.82 \times 10^{2}$	$\times 5.6$		
1.20	5033	2.267×10^{-2}	1.696×10^{-2}	4.753	219.06			
1.27	1795	$.808 \times 10^{-2}$	$.604 \times 10^{-2}$	1.703	78.001			
1.26	11235	5.060×10^{-2}	3.785×10^{-2}	10.673	488.82			
1.25	8363	3.767×10^{-2}	2.818×10^{-2}	7.947	363.97			
1.33	14806	6.669×10^{-2}	4.988×10^{-2}	14.066	644.22			
1.41	4007	1.805×10^{-2}	1.350×10^{-2}	3.807	174.36			
1.27	2365	1.065×10^{-2}	$.797 \times 10^{-2}$	2.248	102.96			
1.17	995	$.448 \times 10^{-2}$	$.335 \times 10^{-2}$	.945	43.28			
1.30	6668	3.003×10^{-2}	2.246×10^{-2}	6.334	290.10			
1.25	2843	1.280×10^{-2}	$.957 \times 10^{-2}$	2.699	123.61			
1.26	79	$.0356 \times 10^{-2}$	$.0267 \times 10^{-2}$	.0753	3.45			
1.24	2465	1.110×10^{-2}	$.831 \times 10^{-2}$	2.342	107.50			
		2.732×10^{-2}			2639.23			
	Ave =	2.28×10^{-2} 12 Sample Ave			219.93			
					×			
1.16	9025				1.24 = 272.713			
1.14	3737							
1.23	820							
1.16	793							
1.13	1085						272.713	
1.15	902						158.335	
1.13	1368						269.898	
1.12	1067						700.946	
1.12	149							

CK

3) 700.946 (233.648
760
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18
14

IN ST. 3'L
Y. IS MULTIPLIED = 1.24

PLES ⊗ MORE SAMPLES BELOW UPPER DIKE ON NEXT PAGE

Location of Sample	Dish No.	Gross Wt.	Tare Wt.	Net Wt.	Thickness Gm/cm²	C/m Gross	C/m/gm	Absorption Correction	
Pit 111 Below Upper Dyke	932	13.6193	12.6911	.9282	.0673	2404	2589		1.43
" 102 "	933	13.3377	12.9565	.3812	.0276	714	1873		1.17
" 113 "	934	10.9558	10.3056	.6502	.0471	284	434		[illegible]
" 121 "	935	13.6318	12.9225	.7093	.0514	1577	2223		1.32
" 114 "	936	11.2808	10.7649	.5159	.0374	446	865		[illegible]
" 106 "	937	11.3300	10.7984	.5316	.0385	108	203		1.24
" 117 "	938	11.2837	10.8424	.4413	.0320	111	252		1.20
" 115 "	939	11.1840	10.5004	.6836	.0495	5075	7423		1.31
" 107 "	940	10.8230	10.4214	.4016	.0291	67	167		1.18
" 105 "	941	10.9882	10.6113	.3769	.0273	397	1053		1.16
" 118 "	942	11.4100	10.9474	.4626	.0335	139	300		1.2[illegible]
" 101 "	943	10.7039	10.2427	.4612	.0334	6230	13508		[illegible]
" 104 "	944	10.4047	10.1863	.2184	.0158	174	797		1.1[illegible]
" 110 "	945	10.8944	10.2413	.6531	.0473	1041	1593		1.2[illegible]
" 109 "	946	11.7032	11.0599	.6433	.0466	2913	4528		1.29
" 103 "	947	12.8822	12.5753	.3069	.0222	228	743		1.14
" 89 "	948	12.8307	12.4524	.3783	.0274	484	1279		1.17
#1 Self Abs.	692			.5449	.0394	35	64		
#2 Absorber upper Dyke	693			.8644	.0626	37	43		
#3 "	694	Red		.8996	.0652	47	52		
#4 "	695	Gamma		.7759	.0562	30	39		
#5 "	696			.5282	.0383	33	62		

Absorption Correction	C/m/gm	μc/gm Dry Wt.	μc/gm Wet Wt.	μc/core 3"	μc/ft² 3" Layer	μc/ft² Total	Area Represented	Total Curies
1.43	3707	1.667×10^{-2}	1.247×10^{-2}	3.517	161.08			
1.17	2191	$.987 \times 10^{-2}$	$.738 \times 10^{-2}$	2.081	95.31			
1.29	560	$.252 \times 10^{-2}$	$.188 \times 10^{-2}$	.530	24.27			
1.32	2934	1.321×10^{-2}	$.988 \times 10^{-2}$	2.786	127.60			
1.23	1064	$.479 \times 10^{-2}$	$.358 \times 10^{-2}$	1.009	46.21			
1.24	252	$.114 \times 10^{-2}$	$.085 \times 10^{-2}$	.239	10.95			
1.20	302	$.136 \times 10^{-2}$	$.101 \times 10^{-2}$	.285	13.05			
1.31	9724	4.379×10^{-2}	3.275×10^{-2}	9.236	423.01			
1.18	197	$.089 \times 10^{-2}$	$.067 \times 10^{-2}$	.189	8.66			
1.16	1221	$.550 \times 10^{-2}$	$.411 \times 10^{-2}$	1.159	53.08			
1.20	360	$.162 \times 10^{-2}$	$.121 \times 10^{-2}$	.341	15.62			
1.20	16210	7.301×10^{-2}	5.461×10^{-2}	15.400	705.32			
1.10	877	$.395 \times 10^{-2}$	$.295 \times 10^{-2}$	.831	38.06			
1.29	2055	$.926 \times 10^{-2}$	$.693 \times 10^{-2}$	1.954	89.49			
1.29	5841	2.631×10^{-2}	1.968×10^{-2}	5.550	254.19			
1.14	847	$.381 \times 10^{-2}$	$.285 \times 10^{-2}$	.804	36.82			
1.17	1496	$.674 \times 10^{-2}$	$.504 \times 10^{-2}$	1.421	65.08			
		22.45×10^{-2}			2170.80			
	ave =	1.32×10^{-2}						
	ave. 17 Samples →				127.69			
					X			
					1.24	158.3356		

O.K.

Location of Sample	Dish No.	Gross Wt.	Tare Wt.	Net Wt.	Thickness Gm/cm²	C/min gross	C/min/gm	Absorption Correction	
Sud Sample ✓ 119	[illegible]	[illegible]	[illegible]	.8542	.0619	[illegible]	527		2.38
below UPPER ✓ 124	[illegible]	[illegible]	[illegible]	.2866	.0208	[illegible]	126		1.55
130	[illegible]	[illegible]	[illegible]	.4530	.0328	[illegible]	2108		1.84
[illegible]	[illegible]	[illegible]	[illegible]	.4632	.0336	[illegible]	5090		1.86
✓ [illegible]	[illegible]	[illegible]	[illegible]	.5794	.0420	[illegible]	255		2.03
✓ [illegible]	[illegible]	[illegible]	[illegible]	.5472	.0397	[illegible]	106		1.98
✓ [illegible]	[illegible]	[illegible]	[illegible]	.4534	.0329	[illegible]	7234		1.84
✓ 85	[illegible]	[illegible]	[illegible]	.4765	.0345	[illegible]	17993		1.97
95	[illegible]	[illegible]	[illegible]	.3198	.0232	[illegible]	94		1.62
✓ [illegible]	[illegible]	[illegible]	[illegible]	.3639	.0264	[illegible]	2143		1.70
✓ [illegible]	[illegible]	[illegible]	[illegible]	.3065	.0222	[illegible]	1912		1.60
✓ [illegible]	[illegible]	[illegible]	[illegible]	.2742	.0199	[illegible]	981		1.53
[illegible] ✓ 108	[illegible]	[illegible]	[illegible]	.6298	.0456	[illegible]	108		2.20
[illegible] ✓ 123	[illegible]	[illegible]	[illegible]	4827	.0350	[illegible]	912		1.82
[illegible] ✓ 120	[illegible]	[illegible]	[illegible]	.3660	.0265	[illegible]	1694		1.69
Standification #2									
First [illegible]	[illegible]	[illegible]	[illegible]	.3372	.0241	[illegible]	2261		1.64
[illegible]	[illegible]	[illegible]	[illegible]	.2860	.0207	[illegible]	297		1.55
[illegible]	[illegible]	[illegible]	[illegible]	.3323	.0241	[illegible]	90		1.64
[illegible]	[illegible]	[illegible]	[illegible]	.3371	.0266	[illegible]	84		1.71
[illegible]	[illegible]	[illegible]	[illegible]	.2362	.0171	[illegible]	59		1.47
[illegible]	[illegible] 15	[illegible]	[illegible]	.2384	.0173	[illegible]	109		1.48
[illegible]	[illegible]	[illegible]	[illegible]	.3737	.0271	[illegible]	54		1.73
				* Ave % Activity in Ist.					[illegible]
* See Page # 58									

Absorption Correction		C/m/gm	Mc/gm Dry Wt. (x.748 =)	Mc/gm Wet Wt. (x 282x10^-2)	Mc/Core (3")	Mc/ft² 3" Layer (x 155.8)	Mc/ft² Total	Area Represented	Total Curies
	2.38	1254	.564x10^-2	.421x10^-2	1.187	53.364			
	1.55	195	.089x10^-2	.066x10^-2	0.186	8.618			
	1.84	3878	1.74x10^-2	1.301x10^-2	3.669	168.040			
	1.86	9467	4.26x10^-2	3.586x10^-2	8.702	398.551			
	2.03	517	.232x10^-2	.0111x10^-2	0.031	1.419			
	1.98	210	.0941x10^-2	.0703x10^-2	0.198	1.267			
	1.84	13,311	5.996x10^-2	4.484x10^-2	12.644	579.095			
	1.87	33,647	15.156x10^-2	11.336x10^-2	31.967	1464.088			
	1.62	152	.068x10^-2	.0508x10^-2	0.143	0.654			
	1.70	3643	1.641x10^-2	1.227x10^-2	3.460	158.468			
	1.60	306.0	1.378x10^-2	1.030x10^-2	2.904	123.003			
	1.53	1501	.676x10^-2	.495x10^-2	1.396	63.937			
	2.20	238	.107x10^-2	.080x10^-2	0.225	9.205			
	1.88	1718	.774x10^-2	.579x10^-2	1.633	74.791			
	1.69	2863	1.29x10^-2	1.255x10^-2	3.539	161.986			
			3405x10^-2	Total =		3266.486			
		Ave =	2.27x10^-2						
			Ave. 15	Samples =		217.766			
						x 1.24	269.8784		
	1.64	3268							
	1.55	460							
	1.64	148							
	1.71	144							
	1.47	87							
	1.48	161							
	1.73	93							
1st	3" =	80.8							

O.K.

Location of Sample	Dish No.	Gross Wt.	Tare Wt.	Net Wt.	Thickness Gm/cm²	C/m Gross	C/m/gm	Absorption Correction	
Stratification Between Dykes 1st in.	1-20	12.8929	12.5356	.3573	.0259	6548	18326		1.68
" 2nd in.	1-21	10.6766	10.4410	.2356	.0171	768	3260		1.46
" 3rd in.	1-22	11.4094	11.1593	.2501	.0181	175	700		1.50
" 4th in.	1-23	10.9406	10.7332	.2074	.0150	166	800		1.42
" 5th in.	1-24	10.6660	10.3365	.3295	.0239	32	97		1.64
" 6th in.	1-25	10.7598	10.4805	.2793	.0202	21	75		1.54
" 7th in	1-26	12.5818	12.1240	.4578	.0332	20	44		1.85
" 8th in	1-27	13.1033	12.6084	.4949	.0359	21	42		1.91
" 9th in.	1-28	13.2547	12.6125	.6422	.0465	17	26		2.13
								ave	% ac
Stratification Intermediate pond (Point 136)							ave. for	Samples from	
1st inch	1-67	10.4712	10.2584	.2228	.0162	2153	9663		1.33
2nd "	1-68	10.8296	10.5620	.2676	.0194	436	1629		1.3[illegible]
3rd "	1-69	12.8915	12.5773	.3142	.0228	505	1607		1.43
4th "	1-70	13.0705	12.7388	.3317	.0239	470	1416		1.45
5th "	1-71	11.1008	10.3964	.7044	.0522	187	265		1.8[illegible]
6th + 7th inches	1-72	11.3026	10.9927	.3099	.0224	93	300		1.4[illegible]
8th + 9th "	1-73	12.8992	12.4668	.4324	.0320	25	58		1.5[illegible]
10th + 11th "	1-74	11.1669	10.8423	.3246	.0236	14	43		1.4
Self Absorption Int. Pond (Point 136)	1-61	11.0617	[illegible]	.1099	.00796	131	1192		1.17
	1-62	[illegible]	[illegible]	.1862	.0135	[illegible]	1121		1.25
	1-63	[illegible]	[illegible]	.2568	.0188	276	1074		1.30
	1-64	13.0498	[illegible]	.4536	.0328	317	716		1.95
	1-65	13.6476	13.0[illegible]	.6651	.0483	517	777		1.80
	1-66	12.5923	[illegible]	.1272	.0109	143	1132		1.24

Absorption Correction	C/m/gm	μc/gm Dry Wt	μc/gm Wet Wt	μc/Core 2"	μc/ft² 3" Layer	μc/ft² Total	Area Represented	Total Curies
1.68	30,788							
1.46	4,760							
1.50	1050							
1.42	1136							
1.64	159							
1.54	115							
1.85	81							
1.91	80							
2.13	55							

ave % act in 1st 3" = 95.1

Samples from Between Dykes: 85.0 % acti in 1st 3"

1.33	12851
1.36	2248
1.43	2298
1.45	2053
1.82	482
1.43	429
1.57	91
1.45	62
	20514
1.17	
1.25	
1.30	
1.95	1396
1.80	
1.24	

% activity in 1st 3" core = 84.81

Factor by which 3" acti is multiplied = 1.18

Location of Sample	Dish No.	Gross Wt.	Tare Wt.	Net Wt.	Thickness Gm/Cm²	C/m Gross	C/m/gm	Absorp. Corr.
Mud Sample Between Lines 74 # 125	1-52	12.5845	12.3334	.2511	.0183	334	1330	1.6
" 129	1-53	10.6200	10.3063	.3137	.0228	107	341	1.7
" 131	1-54	13.6397	13.0285	.6112	.0443	83	136	2.05
" 132	1-55	11.2116	10.8041	.4075	.0298	2519	6183	1.82
" 133	1-56	13.4636	13.0369	.4267	.0310	58	136	1.84
" 134	1-57	10.9591	10.5352	.4239	.0306	1303	3081	1.82
~~Int. Pond~~	~~1-59~~	~~[illegible]~~	~~[illegible]~~	~~.4279~~	~~.0296~~	~~595~~	~~1458~~	~~1.81~~
~~" 140~~	~~1-60~~	~~[illegible]~~	~~[illegible]~~	~~.2953~~	~~.0214~~	~~29~~	~~98~~	~~1.64~~

Ave Mc/gm Dry Wt for between Dykes (Swamp) = 1.87

Mud Samples Intermediate Pond

Pt. #1 ~~135~~	~~58~~	~~13.5674~~	~~12.8353~~	~~.7321~~	~~.0530~~	~~2057~~	~~2801~~	~~1.83~~
~~139 " # 2~~	~~D-95~~	~~NEAR N.W. EDGE~~		~~.2748~~	~~.0199~~	~~2969~~	~~10,731~~	~~1.39~~
~~140 " # 3~~	~~D-96~~	~~near Center~~		~~.1927~~	~~.0860~~	~~3700~~	~~19200~~	~~2.25~~
~~141 4~~	~~D-97~~	~~of Pond~~		~~.2508~~	~~.0181~~	~~6165~~	~~24581~~	~~1.36~~
~~142 138 5~~	~~D-98~~	~~NEAR S.W. Edge~~		~~.1734~~	~~.0125~~	~~1120~~	~~6496~~	~~1.28~~
~~143 (142) 6~~	~~D-99~~	~~" So. Edge~~		~~.4768~~	~~.0341~~	~~7118~~	~~15118~~	~~1.60~~
~~140 (143) 7~~	~~[illegible]~~	~~[illegible]~~		~~.3246~~	~~.0236~~	~~1923~~	~~3068~~	~~1.45~~
~~138 Lower Dyke~~		~~near SE Edge~~		~~.2500~~	~~.0182~~	~~3945~~	~~13,760~~	~~1.36~~
	1-156			.2182		35	160	1.42
	1-157			.1850		46	249	1.36
	1-158			.1525		76	498	1.30
	1-159			.1145		94	821	1.23

Absorp. Correct.	C/m/gm	MC/gm. Dry Wt. ×10⁻²	MC/gm. Fiber Wt.	MC/cc Core "Depth"	MC/ft² 3" Layer	MC/ft² Total	Area Represented	Total Curies
	÷.222	×.748	×.3²		×45.6			
1.6	2126	0.958	.716×10⁻²	2.020	92.51			
1.7	580	0.261	.195×10⁻²	0.549	25.14			
2.05	278	0.125	.093×10⁻²	0.262	1.19			
1.82	11253	5.068	3.790×10⁻²	10.687	489.37			
1.84	250	0.113	0.084	0.236	10.81			
1.82	5607	2.526	1.889	5.326	243.93			
~~1.81~~	~~2639~~	~~1.189~~	~~0.889~~	2.506	114.77			
~~1.64~~	~~161~~	~~0.072~~	0.054	.152	6.96			
		9.06		6	862.85			
p) =	1.87×10⁻²	Ave = 1.51×10⁻²						
		Ave for 6 Samples				145.47		
						36.49		
						181.96		
						179.33		
						12.4		
						~~219.43~~		
		Ave. for Marsh Area						106.8*
1.83	5125	2.308 (×10⁻²)	1.726 (×10⁻²)	4.867	226.908	222.37	10.7A or 466,092 sq'	O.K
~~1.39~~	~~14916~~	~~6.719~~	~~5.026~~	~~14.113~~	~~64.931~~			
~~2.25~~	~~43204~~	~~19.459~~	~~14.555~~	~~41.045~~	~~187.261~~			
~~1.36~~	~~33480~~	~~15.259~~	~~11.264~~	~~31.764~~	~~145.791~~			
~~1.28~~	8314	3.745	2.801	7.899	361.714			
~~1.60~~	~~24788~~	~~11.895~~	8.149	22.980	~~1052.984~~			
1.45	5464	2.461	1.841	5.192	237.794			
1.36	~~18714~~	~~8.709~~	~~6.305~~	~~17.780~~	~~814.324~~			
1.42	Ave for 9 Samples =							
1.36								
1.30	Total 6737.57				×	1.18		
1.23						7954.30		

* Includes area above upper disc

Location of Sample	Dish No	Gross Wt.	Tare Wt.	Net Wt.	Thickness Gm. Cm²	C/m Gross	C/m/gm	Absorp. Correction
Pt. 24a Marsh Above Lake	1-178	10.8879	10.4005	.4874	.03532	251	515	1.71
" 21a "	1-179	14.7098	14.0550	.6548	.0475	71	108	1.93
" 14a "	1-180	13.7232	13.3975	.3257	.0236	11,088	34,043	1.49
" 18a "	1-181	12.2471	11.4784	.7687	.0557	16	21	2.06
" 5a "	1-182	13.0066	12.5689	.4377	.0317	2410	5506	1.63
" 20a "	1-183	14.1999	13.8971	.3028	.0219	37	122	[illegible]
" 19a "	1-184	13.2089	12.7814	.4275	.0310	19	44	1.62
" 8a "	1-185	14.2012	13.7352	.4660	.0338	7330	15,730	1.68
" 6a "	1-186	12.1382	11.5497	.5885	.0426	128	218	1.83
" 12a "	1-187	12.9345	12.4191	.5154	.0373	67	130	1.71
" 15a "	1-188	14.3328	13.7591	.5737	.0416	1956	3409	1.81
" 10a "	1-189	12.0553	11.2287	.8266	.0599	257	311	2.10
" 23a "	1-190	11.9338	11.5128	.4210	.0305	49	116	1.62
" 7a "	1-191	14.0435	13.5545	.4890	.0354	146	299	1.70
" 11a "	1-192	12.6091	12.1759	.4332	.0314	293	677	1.64
" 9a "	1-193	12.2933	11.6228	.6705	.0486	151	225	1.93
" 13a "	1-194	11.8202	11.1118	.7084	.0513	444	627	1.95
" 17a "	1-195	14.1705	13.7642	.4063	.0294	388	955	1.60
" 25a "	1-196	13.5923	13.2313	.3610	.0262	5045	14,375	1.55
" 26a "	1-197	11.9689	11.5382	.4307	.0312	25	58	1.63
" 27a "	1-198	14.9336	14.2282	.7054	.0511	281	399	[illegible]
" 28a "	1-199	12.6897	12.2871	.4026	.0292	5582	13,866	[illegible]
[illegible] "	1-200	11.3749	10.8914	.4835	.0350	55	114	[illegible]

Absorption Correction	C/m/gm.	Mc/gm Dry Wt.	Mc/gm Wet Wt.	Mc/Core 3" Depth	Mc/ft² 3" Layer	Mc/ft² Total	Area Represented	Total Curies
			$.282 \times 10^{2}$	$\times 45.8$				
1.71	882	0.397×10^{-2}	$.297 \times 10^{-2}$	.832	38.105			
[illegible]	207	0.093×10^{-2}	$.070 \times 10^{-2}$	.196	8.976			
[illegible]	50724	22.850	17.091×10^{-2}	[illegible].855	2191.759			
2.06	43	0.019	0.014×10^{-2}	0.039	1.786			
[illegible]	8975	4.043	3.024×10^{-2}	8.467	387.788			
[illegible]	178	0.080	0.060×10^{-2}	0.168	7.594			
[illegible]	71	0.031	0.023×10^{-2}	0.064	2.931			
[illegible]	26,426	11.904	8.904×10^{-2}	25.031	1146.420			
[illegible]	399	0.180	0.135×10^{-2}	0.378	17.312			
[illegible]	226	0.108	0.081×10^{-2}	0.227	10.396			
[illegible]	6170	2.779	2.079×10^{-2}	5.822	266.647			
2.10	653	0.294	0.220×10^{-2}	0.616	28.213			
[illegible]	188	0.847	0.633×10^{-2}	1.772	81.157			
[illegible]	508	0.224	0.167×10^{-2}	0.468	21.434			
[illegible]	11010	4.959	3.709×10^{-2}	10.485	480.213			
[illegible]	434	0.195	0.146×10^{-2}	0.409	18.73			
[illegible]	1241	0.559	0.418×10^{-2}	1.170	53.59			
[illegible]	1528	0.688	0.505×10^{-2}	1.414	64.76			
[illegible]	22,271	10.032	7.504×10^{-2}	21.011	962.30			
[illegible]	95	0.043	0.032×10^{-2}	0.090	4.12			
[illegible]	786	0.354	0.265×10^{-2}	0.742	33.98			
[illegible]	22,186	9.994	7.475×10^{-2}	20.930	958.59			
[illegible]	194	0.087	0.065×10^{-2}	0.182	8.34			
					12791.354			

Ave. for 23 Samples → = 556.145 see page 71, 71

70.74×10^{-2}

Ave = 3.08×10^{-2}

Location of Sample	Dish No.	Gross Wt	Tare Wt	Net Wt	Thickness Gm/cm²	Gm/m²	Gm/cm³	Accr. Corrn.
Marsh Above Lake 15	1-201	10.7955	10.2638	.5317	[illegible]	229	431	[illegible]
" 2B "	1-202	11.1480	10.5771	.5709	.0414	1771	3102	.81
" 3B "	1-203	13.6710	13.1549	.5161	.0374	56	109	.75
" 4B "	1-204	10.9658	10.4753	.4905	.0355	301	614	[illegible]
" 5B "	1-205	13.5381	13.1602	.3779	.0274	101	267	1.57
" 6B "	1-206	12.8604	12.4740	.3864	.0280	22	57	1.58
" 7B "	1-207	11.2149	10.8089	.4060	.0294	559	1377	1.60
" 8B "	1-208	12.3363	11.9080	.4283	.0318	46	107	1.62
" 9B "	1-209	10.9012	10.4229	.4783	.0347	80	167	[illegible]
" 10B "	1-200	13.1977	12.9148	.2829	.0205	22	78	[illegible]
" 11B "	1-219	11.1692	10.8135	.3557	.0258	77	216	1.52
" 12B "	1-212	11.1831	10.7517	.4314	.0313	20	46	1.13
" 13B "	1-213	10.9680	10.4838	.4842	.0354	378	780	[illegible]
" 14B "	1-214	13.6891	13.1278	.5613	.0407	684	1219	1.80
" 15B "	1-215	13.5539	13.0453	.4936	.0358	204	413	1.71
" 16B "	1-216	12.9862	12.6187	.3675	.0266	5976	16261	1.52
" 17B "	1-217	11.5675	11.1959	.3716	.0269	142	382	.55
" 18B "	1-218	10.5632	10.1878	.3754	.0272	326	868	1.56

Samples 4-27-48

Area Marsh above Lake = 7.85 Acres

For Marsh above Lake — G

C/m/gm.	mc/gm. Dry Wt.	mc/gm. Net Wt.	mc/cm³ 3" Depth ×282×10²	mc/ft² 3" Layer ×45.8	mc/ft² Total	Area Represented	Total Curies
763	0.344×10^{-2}	0.257×10^{-2}	0.725	33.205			
5617	2.530×10^{-2}	1.892×10^{-2}	5.335	244.343			
191	0.086×10^{-2}	0.064×10^{-2}	0.150	6.870			
1043	0.465×10^{-2}	0.348×10^{-2}	0.981	44.930			
419	0.189×10^{-2}	0.141×10^{-2}	0.398	19.228			
90	0.041×10^{-2}	0.031×10^{-2}	0.087	3.985			
2200	0.990×10^{-2}	0.740×10^{-2}	2.087	95.585			
174	0.078×10^{-2}	0.058×10^{-2}	0.163	7.465			
282	0.127×10^{-2}	0.095×10^{-2}	0.268	12.274			
111	0.050×10^{-2}	0.037×10^{-2}	0.104	4.763			
328	0.148×10^{-2}	0.036×10^{-2}	0.102	4.671			
75	0.034×10^{-2}	0.025×10^{-2}	0.071	3.252			
1325	0.597×10^{-2}	0.446×10^{-2}	1.258	57.616			
2193	0.988×10^{-2}	0.740×10^{-2}	2.087	95.585			
706	0.318×10^{-2}	0.238×10^{-2}	0.671	30.732			
25010	11.261×10^{-2}	8.423×10^{-2}	23.753	1087.887			
592	0.267×10^{-2}	0.200×10^{-2}	0.564	25.831			
1355	0.610×10^{-2}	0.456×10^{-2}	1.286	58.898			

Total for 18 Samples = 1837.120

ave. for above = 102.062

" for 23 on P 68-69 = 556.145

ave for 41 Samples 2) 658.207

(Pages 68; 69-70-71) → 329.103

19.13×10^{-2}

1.06×10^{-2}

4.14×10^{-2}

Ave - Ave = 2.07×10^{-2}

Ave = 394.928

394.92

7.85A or 135.04

341,946 sq. ft.

J.K.

Location of Sample	Dish No.	Gross Wt	Tare Wt.	Net Wt.	Thickness Gm/Cm²	C/m gross	C/m/gm	Absorption Correction
Self Absorption Flats at upper end of Lake (MARSH ABOVE)	1-219	13.9424	12.4531	.4893	.108	1400	982	[illegible]
	1-220	11.3463	10.[illegible]	.7117	[illegible]	[illegible]	1340	[illegible]
" "	1-221	13.7216	12.9591	.7625	.0553	971	1273	[illegible]
" "	1-222	11.1935	10.6555	.5380	.0390	761	1414	[illegible]
" "	1-223	13.5272	12.8139	.7133	.0517	917	1286	[illegible]
" "	1-224	11.7247	10.8003	.9244	[illegible]	1055	1141	2.25
" "	1-225	13.1491	12.9450	.2041	.0148	420	2058	[illegible]
" "	1-226	11.3045	10.8448	.4597	[illegible]	690	1501	1.73
" "	1-227	11.3662	10.6140	.7522	.0545	973	1294	2.01
" "	1-228	12.8975	12.7471	.1486	.0108	292	1965	1.32

Int. Pond
Settling Basin

Point #						
	135	.7321	.0530	2057	2801	1.83
1 ✓	136	.1927	.0860	3700	19200	2.25
	137	.4079	.0296	595	1458	1.81
	138	.2748	.0199	2949	10731	1.39
2 ✓	139	.2508	.0181	6165	24581	1.36
	140	.3246	.0236	1223	3768	1.45
4 ✓	141	.2500	.0182	3940	13760	1.36
3 ✓	142	.4708	.0341	7118	15118	1.60
	143	.1724	.0125	1120	6496	1.28

Absorption Correction	C/m/gm	mc/gm Dry Wt.	mc/gm Wet Wt.	mc/core 3" Depth	mc/ft² 3" Layer	mc/ft² Total	Area Represented	Total Curies.
[illegible]	2602							
[illegible]	2600							
[illegible]	2571							
[illegible]	2602							
[illegible]	2598							
2.25	2601							
[illegible]	2593							
1.73	2597							
2.01	2601							
1.32	2594							
1.83	5125	2.308 ×10⁻²	1.726	4.867	222.91			
2.25	43200	19.459	14.555	41.045	1879.86			
1.81	2639	1.189	0.889	2.506	114.77			
1.39	14916	6.719	5.026	14.173	649.12			
1.36	33430	15.059	11.264	31.764	1454.79			
1.45	5464	2.461	1.841	5.192	237.79			
1.36	18714	8.429	6.305	17.780	814.32			
1.60	24188	10.895	8.149	22.980	1052.48			
1.28	8314	3.745	2.801	7.899	361.77		1.2	

6787.71

[illegible] 754.11 [illegible] 52272 [illegible]

9 | 70.27 | 7.81 10⁻² ×

63

72

72

1.70 [illegible] 282.12

43560

1.2

87120

43560

52272.0

67.028

Location of Samples	Dish No.	Gross Wt	Tare Wt	Net Wt (÷ 13.8)	Thickness Gm/cm²	C/M gross	C/M/gm (÷ net wt)	Absorption Correction
3C Prev End of W.O. Lake	1-305	11.8629	11.5364	.3265	.0237	3337	10,220	1.
6C "	1-306	13.9915	13.6517	.3398	.0246	295	867	1.
2C "	1-307	14.3314	14.0777	.2537	.0183	1099	4332	1.
4C "	1-308	12.4977	12.3367	.3265	.0237	396	1213	1.
8C "	1-309	13.0238	12.7557	.2681	.0194	160	597	1.
7C "	1-310	12.5941	12.4134	.1807	.0130	172	951	1.
5C "	1-311	14.1480	13.7618	.3862	.0279	1295	3353	1
12C #1 "	1-362	12.4448	12.1760	.2688	.0195	115	428	1
12C #2 "	1-363	14.0061	13.7640	.2421	.0175	56	231	1
13C "	1-364	11.9050	11.5376	.3674	.0266	148	403	
19C "	1-365	11.2941	10.8916	.4025	.0291	270	678	
18C "	1-366	10.5649	10.4007	.1642	.0119	166	1011	
14C "	1-367	12.6251	12.4197	.2054	.0149	55	267	
16C "	1-387	13.4910	13.1534	.3376	.0245	3094	9161	1
10C "	1-388	13.9218	13.7593	.1625	.0118	282	1734	
22C "	1-380	11.6354	11.4788	.1566	.0113	974	6219	1
21C "	1-381	11.7743	11.6237	.1506	.0109	164	1089	
20C "	1-382	10.9984	10.5761	.4223	.0306	301	713	
15C "	1-384	10.7627	10.4742	.2885	.0209	1247	4322	
11C "	1-385	14.0739	13.7360	.3379	.0245	890	2634	
9C "	1-386	12.3725	12.2880	.0845	.0061	367	4343	
17C "	1-430	10.8464	10.7653	.0811	.0059	340	4192	

$\times \frac{1}{.1 \times 2.22 \times 10^6}$

$\times .748 \rightarrow \times 2.82 \times 10^{-2} \rightarrow \times 45.8 \rightarrow$

Absorption Correction	C/M/gMo	MC/gM DRY Wt.	MC/gM Wet Wt	MC/Core 3"	MC/ft² 3" Cu	MC ft² total	Area Represented	Total Curies
1.52	15,534	6.99×10^{-2}	5.228×10^{-2}	14.748	675.55			
1.45	1,267	$.552 \times 10^{-2}$	0.412×10^{-2}	11.618	532.19			
1.38	5,975	2.69×10^{-2}	2.011×10^{-2}	5.671	259.69			
1.46	1,771	$.798 \times 10^{-2}$	0.597×10^{-2}	12.429	569.29			
1.39	830	$.373 \times 10^{-2}$	0.279×10^{-2}	0.786	36.00			
1.28	1,217	$.548 \times 10^{-2}$	0.410×10^{-2}	1.156	52.94			
1.53	5,127	2.309×10^{-2}	1.727×10^{-2}	4.870	223.05			
1.39	595	$.268 \times 10^{-2}$	0.200×10^{-2}	0.564	25.83			
1.36	314	$.141 \times 10^{-2}$	0.105×10^{-2}	0.296	13.56			
1.50	222	$.100 \times 10^{-2}$	0.075×10^{-2}	0.211	9.66			
1.54	416	$.187 \times 10^{-2}$	0.139×10^{-2}	0.432	197.86			
1.25	1,264	$.565 \times 10^{-2}$	0.423×10^{-2}	1.193	54.50			
1.31	350	$.157 \times 10^{-2}$	0.117×10^{-2}	0.330	15.11			
1.47	13,467	6.662×10^{-2}	4.981×10^{-2}	14.046	643.49			
1.27	2,202	$.992 \times 10^{-2}$	0.742×10^{-2}	2.092	95.72			
1.24	7,711	3.473×10^{-2}	2.597×10^{-2}	7.323	335.26			
1.23	1,339	$.603 \times 10^{-2}$	0.451×10^{-2}	1.271	58.17			
1.56	1,112	$.501 \times 10^{-2}$	0.375×10^{-2}	1.057	48.54			
1.42	6,137	2.764×10^{-2}	2.067×10^{-2}	5.829	267.00			
1.47	3,872	1.74×10^{-2}	0.831×10^{-2}	2.343	107.17			
1.15	4,994	2.25×10^{-2}	1.683×10^{-2}	4.746	217.55			
1.14	4,779	2.153×10^{-2}	1.610×10^{-2}	4.540	207.93			

TOTAL → 4646.04

Ave. for 22 Samples → 211.15

253.80

O.K.

36.80×10^{-2}

Ave. = 1.67×10^{-2}

LOCATION OF SAMPLE	DISH #	GROSS	TARE	Net	THICKNESS GM/CM²	C/M/GROSS	C/M/GM	ABSORP	tION
POINT UPPER END W.O. LAKE	1-395	13.3000	12.4730	.8270	.0599	1220	1475	-	1.93
Self ABS. "	1-396	10.7042	10.6119	.0923	.0066	192	2080	not	Plotte
" " "	1-397	10.7548	10.4824	.2724	.0197	554	2034		1.3
" " "	1-398	13.1664	12.9475	.2229	.0161	467	2095		1.3
" " "	1-399	12.9524	12.4515	.5009	.0363	863	1723		1.6
" " "	1-400	11.4909	10.8197	.6712	.0486	1004	1496		1.7
" " "	1-401	14.0378	12.8775	1.1603	.0840	1581	1363		2.1
" " "	1-402	12.1412	10.8926	1.2486	.0904	1578	1264		2.2
" " "	1-403	10.9298	10.8388	.0910	.0066	208	2286	not	Plot
" " "	1-404	10.7229	10.6269	.0990	.0072	178	1798	"	
SELF ABS. #II	B-46			.0715	.0052	153	2140		
"UPPER END W.O.L."	B-47			~~.0936~~	.0068	21	~~224~~	—	1
	48			.1403	.0102	243	1732		
	49			.1937	.0140	359	1853		
	50			.4054	.0293	627	1547		
	52			.4812	.0348	770	1600		
	53			.5125	.0371	652	1272		
	54			.6412	.0465	1105	1723		1.
	55			.0357	.0026	80	2240		1.4

222×10^{-2} .1 , 222

BSORP	TION CORREC	C/M/gm$_0$	MC/GM DRY WT	MC/GM WET WT	MC/CORE 3"	MC/ft^2 3" LAYER	MC/ft^2 Total	AREA REPRESENTED	TOTAL CURIES
				×.748	×282×10^2	×458			
	1.93	2847	1.284×10^{-2}	.957×10^{-2}	2,698	123.57			
not	Plotted	—							
	1.37	2785	1.236×10^{-2}	.925×10^{-2}	2,608	119.45			
	1.33	2786	1.236×10^{-2}	.925×10^{-2}	2,608	119.45			
	1.65	2843	1.284×10^{-2}	.957×10^{-2}	2,698	123.57			
	1.78	2663	1.199×10^{-2}	.897×10^{-2}	2,529	115.83			
	2.18	2971	1.338×10^{-2}	1.008×10^{-2}	2,842	130.16			
	2.25	2846	1.284×10^{-2}	.957×10^{-2}	2,698	123.57			
not	Plotted	—				855.60			
"	"	—							
	1.52								
	~~14.50~~								
	1.87								
	1.75								
	2.10								
	2.03								
	2.55								
	1.88								
	1.45								

LOCATION OF SAMPLE	DISH #	Net Wt ÷ 13.8	GM/CM²	C/M in.	C/M/GM	ABSOR CORRE
UPPER END OF LAKE-29D	1-425	0.2097	.0151	96	472	1.
" " " " 23D	1-426	.2959	.0214	472	1595	2.
" " " " 25D	1-427	.3746	.0271	1150	3069	2.
" " " " 24D	1-428	.3774	.0273	2041	5408	2.
" " " " 26D	1-429	.2642	.0191	796	3013	2
" " " " 31D	1-430	.1088	.0078	1175	10799	1
" " " " 28D	1-431	.1245	.0090	828	6651	1
" " " " 27D	1-432	.1699	.0123	1602	9429	1.
" " " " 30D	1-433	.1751	.0126	2963	16922	1
" " " " 6E	1-470 ✓	.1540	.0111	377	2448	1
" " " " 4E	1-471	.1348	.0097	662	4911 ✓	1
" " " " 5E	1-472	.2144	.0155	923	4305 ✓	1
" " " " 1E	1-473	.1903	.0137	536	2817 ✓	
" " " " 10E	1-474	.1659	.0120	52	307	
" " " " 2E	1-475 ✓✓	.1184	.0085	462	3650 ✓	
" " " " 9E	1-476 ✓	.1264	.0091	568	4494	
" " " " 3E	1-477	.1071	.0077	31	289	
" " " " 7E	1-478 ✓	.1363	.0098	314	2304	
" " " " 8E	1-480	.1554	.0112	2656	17091	
(11"-14") 8E						

Area - Upper End Lake = 7.80 acres

For upper W. O. Lake

÷2.22 × 7.48 × 2.82 × 10^-18 × 45.8

/GM	ABSORPTION CORRECTION	C/MIN/GM	MC/GM DRY Wt.	MC/GM Wet Wt	MC/CORE 3"	MC/ft² 3" LAYER	MC/ft² Total	AREA REPRESENTED	TOTAL CURIES
72	1.95	920.	.415 x 10^-10	.310 x 10^-10	.874	40.029			
95	2.05	3210.	1.472 x 10^-10	1.101	3.104	142.163			
69	2.10	6445.	2.903 x 10^-10	2.171	6.122	280.388			
408	2.10	11357.	5.115 x 10^-10	3.826	10.789	494.136			
313	2.02	6086.	2.741 x 10^-10	2.050	5.781	264.769			
99	1.67	18034.	8.128 x 10^-10	6.073	17.126	784.370			
51	1.75	11639.	5.242 x 10^-10	3.921	11.057	506.410			
29	1.87	17632.	7.942	5.940	16.751	767.195			
722	1.88	31813.	14.330	10.718	30.225	1384.35			
48	1.87	4578	2.062	1.542	4.348	199.158			
711 ✓	1.77	8692.	3.915	2.928	8.275	378.995			
305 ✓	1.95	8395.	3.781	2.828	7.975	365.255			
31 ✓	1.91	5369.	2.418	1.808	5.099	233.534			
07	1.85	568.	.255	.190	.535	24.503			
650 ✓	1.71	6265.	2.813	2.104	5.933	271.731			
94	1.75	1865.	3.542	2.649	7.470	342.126			
39	1.61	483.	1.217	.162	.456	20.884			
4	1.78	4101.	1.847	1.381	3.894	178.345			
91	1.85	31618.	14.242	10.653	30.041	1,375.877			
			83.35 x 10^-2			1054.153			
		Ave. for 19 Samples =				Ha: (508.68)	7.8		
	Ave =		4.38 x 10^-2			1.2			
			1.67	~~5.132~~					
			6.05	~~1038.55~~ Ave Wt. End Wt.					
0 Lrte	ave =		(3.02)	155.587					
			14						
			15						
			14						

→ 38 34 (381.24)

(344,946 dpm)

213.36

O.K.

Ave Mash & Upper End (W.O.L)

80

8E

2001

LOCATION OF SAMPLE	DISH #	Net Wt	GM/CM²	C/MIN.	C/M/GM	ABSORPTION CORRECTION	C/M
		÷ 13.8		÷ net wt			
STRATIFICATION ~~Brock End~~ ~~Wheeler~~ 1½"	1-481	.1380	.0100	1808	13826	1.8	24
" " 2-1½"	1-482	.0764	.0055	1012	13246	1.5	19
" " 2nd"	1-483	.0867	.0062	1507	17380	1.55	26
" " 3rd"	1-484	.1240	.0089	3130	25242	1.75	44
" " 4th"	1-485	.0815	.0059	1658	20319	1.57	31
" " 5th"	1-486	.2162	.0156	1123	5194	1.95	10
" " 6th"	1-487	.1329	.0096	270	1248	1.76	21
" " 7th"	1-488	.1208	.0087	168	1391	1.72	23
" " 8th"	1-489	.1569	.0113	293	1867	1.84	3
" " 9th"	1-492	.1945	.0141	140	719	1.92	1
" " 10th"	1-493	.1106	.0080	103	931	1.67	1
" " 11th"	1-494	.1599	.0115	86	538	1.85	
" " 12th"	1-495	.1595	.0115	65	408	1.85	
" " 13-14th"	1-496	.2204	.0159	26	118	1.95	
⊙ 2 mm	1-479			5928		(omit)	
" 8E (4"-14")	1-497					(omit)	
Line I Strat. (W.O. Lake #1)	D-1	.2280	.0165	1256	5508	1.55	8
2	2	.2210	.0160	130	588	1.53	
3	3	.1379	.0099	81	587	1.45	
4	4	.2057	.0149	33	160	1.52	
5	5	.1363	.0098	24	176	1.45	
6	6	.2040	.0147	12	59	1.53	
7	7	.1788	.0129	17	95	1.29	
				Total actv. in Sample			11,

93.5% of total actv. in
Factor by which 3"

Wash Chem
" Lake

ORPTION ECTION	C/M/GM$_0$	~~MC/GM Dry~~ Wt	MC/GM Wet Wt.	MC/3" Core	MC ft^2 3" Layer	MC/ft^2 Total	AREA Represent	TOTAL CURIES
1.8 1.2	~~24887~~	16591						
1.5 1.1	~~19869~~	4573						
1.55 1.5	~~26939~~ 71695	19447	71147					
1.75 1.2	~~44173~~	30290						
1.57 1.7	~~31901~~	2842[illegible]	% [illegible] in 1st 3" = 40.72					
1.95 .2	~~10128~~	6356						
1.76 1.1	~~2196~~	1510	Fraction 1st 3" multiplied by = 2.45					
1.72 .2	~~2392~~	1669						
1.84 1.4	~~3435~~	2315						
1.92 1.2	~~1380~~	935						
1.67 1.3	~~1555~~	1099						
1.85 .5	~~995~~	673						
1.85 1.5	~~755~~	510						
1.95 1.3	~~230~~	~~156~~						
unit)		125577						
unit)								
1.55	8537							
1.53	900							
1.45	851							
1.52	243							
1.45	255							
1.53	90							
1.29	126							
Sample	11,002							

Acto in 1st 3"
hich 3" depth acto multiplied by = 1.07

W.O. LAKE 83 ÷ 3.8 SAMPLES TAKEN - 7-21-48

Location of Sample	Dish #	Net Wt.	GM/CM²	C/MIN	C/M/GM	ABSORPTION CORRECTION	C/M
ACROSS FROM BOAT #1	1	.2680	.0194	5350	19962	1.57	
" " " 2	2	.1580	.0114	873	5525	1.48	
" " " 3	3	.1350	.0098	77	558	1.45	
" " " 4	4	.3120	.0226	196	628	1.55	
" " " 5	5	.1738	.0126	279	1605	1.50	
" " " 6	6	.1853	.0134	55	296	1.51	
* Self ABS. FROM LINE #1 Used							
Self ABS. #1	A-1	.3189	.0231	2019	6331	1.48	
Line #I #2	A-2	.1298	.0094	884	6811	1.38	
W.O. LAKE 3	A-3	.3873	.0280	2208	5701	1.65	
4	A-4	.2003	.0145	1326	6630	1.42	
5	A-5	.5146	.0373	2747	5338	1.76	
6	A-6	.0781	.0057	512	6556	1.43	
7	A-7	.3900	.0282	2761	7079	1.33	
8	A-8	.3040	.0220	1617	5380	1.75	
9	A-9	.3516	.0253	1626	4624	2.03	
LINE #II Below Boat #1	A-10	.1901	.0137	1090	5734	1.34	
GROUP "H" #2	A-11	.2619	.0189	608	2321	1.41	
Activity #3	A-12	.1826	.0132	676	3702	1.54	
Samples * #4	A-13	.3067	.0222	157	520	1.45	
#5	A-14	.2635	.0191	464	1761	1.42	

LINE #1* GROUP "F" ON MAP

No Good RGE

* [illegible]

-48

...RPTION ...ECTION	CM/GM₀	MC/GM Dry Wt	MC/GM Wet Wt	MC/cm³	MC/ft² 3" Layer	MC/ft² Total	AREA REPRESENTED	Total CURIES
		×.748	×.282	× 45.8				
1.57	31340	14.117×10^{-2}	10.559×10^{-2}	29.776	136.374			
1.48	8177	3.683	2.755	7.769	35.582			
1.45	809	.364	.272	0.767	3.513			
1.55	973	.438	.328	0.925	42.37			
1.50	2407	1.084	.811	2.287	104.74			
1.51	447	0.201	.150	0.423	19.37			
	ave =	3.31×10^{-2}			1921.17			
1.48	11489							
1.38	9399	ave for 6 Samples =			320.18			
1.65	9407				1.07			
1.42	9415				342.59			
1.76	9394							
1.43	9375							
1.33	9415							
1.75	9415							
2.03	9379							
1.34	7684	3.461×10^{-2}	2.589×10^{-2}	7.301	334.385			
1.41	3273	1.474×10^{-2}	1.099×10^{-2}	3.099	141.934			
1.54	4961	2.234×10^{-2}	1.671×10^{-2}	4.712	215.809			
1.45	754	0.339×10^{-2}	0.254×10^{-2}	0.716	32.793			
1.42	2501	1.126×10^{-2}	0.842×10^{-2}	2.374	108.729			
		2.63			833.650			
		Ave for 5 Samples =			166.730			
	ave =	1.72×10^{-2}			1.05			
					175.04			

÷ 13.8

LOCATION OF SAMPLE	DISH #	Net Wt.	GM/CM²	C/MIN.	C/M/GM	ABSORPTION CORRECTION	C/
W.O. LAKE LINE #IV	A-15	.2612	.0199	142	544	1.66	
SAMPLE # 2	A-16	.1504	.0109	292	1941	1.49	
" # 3	A-17	.1545	.0112	994	6427	1.5	
" # 4	A-18	.2535	.0183	701	2765	1.64	
" # 5	A-19	.2905	.0211	282	930	1.68	
" # 6	A-20	.1677	.0121	2191	13,065	1.52	
W.O. LAKE-LINE #IV 1	A-21	.1152	.0082	1709	14,835	1.38	
STRATIFICATION 2	A-22	.0992	.0072	1529	15,270	1.34	
10 IN. SAMPLE #6 3	A-23	.1080	.0077	1456	13,048	1.36	
" 4	A-24	.0729	.0052	962	13,196	1.25	58679
" 5	A-25	.1020	.0074	889	8,890	1.35	
" 6	A-26	.1145	.0082	1242	10,847	1.38	
" 7	A-27	.0906	.0066	1276	14,083	1.31	
" 8	A-28	.1271	.0092	992	7,809	1.42	
" 9	A-29	.0783	.0057	127	1622	1.27	
" 10	A-30	.1557	.0112	154	990	1.50	

"GR.-1" ON MAP

Ack.

Ave

[illegible] 3'' = 4

43.2

586,700

542664

440,260

406,798

332,622

135,666

PTION ECTION	C/M/GM	MC/GM DRY Wt.	MC/GM Wet Wt.	MC/Core 3"	MC/ft² 3" Layer	MC/ft² Total	AREA Represented	TOTAL CURIES
			×.748	×2.22×10⁻²	×45.8			
1.66	236	0.106×10⁻²	.0713×10⁻²	.2236	102.408			
1.49	435	0.195×10⁻²	.1458×10⁻²	.4116	18.8513			
1.5	1491	0.671×10⁻²	.5019×10⁻²	1.4153	64.8207			
1.64	1150	0.518×10⁻²	.3875×10⁻²	1.0927	50.0456			
1.68	474	0.213×10⁻²	.1593×10⁻²	.4492	20.5734			
1.52	19,859	8.94×10⁻²	6.687	18.8573	863.6643			
		10.64			6 / 1029.1961			
	ave = =	1.77	(ave 6 Samples		171.3660			
				× 1.14		195.357		
1.38	20,472	9.22×10⁻²	6.89×10⁻²	19.43	889.89			
1.34	20,462	9.21×10⁻²	6.89×10⁻²	19.43	889.89			
1.36	17,745	7.99×10⁻²	5.98×10⁻²	16.86	772.18			
1.25	17,495	7.88×10⁻²	5.89×10⁻²	16.60	760.28			
1.35	12,002	5.40×10⁻²	4.04×10⁻²	11.39	521.66			
1.38	14,417	6.49×10⁻²	4.85×10⁻²	13.68	626.54			
1.31	18,449	8.31×10⁻²	6.22×10⁻²	17.54	803.33			
1.42	11,079	4.99×10⁻²	3.73×10⁻²	10.52	481.81			
.27	2060	0.92×10⁻²	0.69×10⁻²	1.94	88.85			
1.50	1485	0.671×10⁻²	0.50×10⁻²	1.41	64.57			
	135,666							
=	43.2							

Location of Sample	Dish No.	Net Wt.	GM/CM/2	C/Min.	C/M/GM	Absorption Correction
W.O. Lake - Line #V						
#1	A-51	.3666	.0265	266	7255	1.56
#2	A-52	.2590	.0187	738	2924	1.54
#3	A-53	.3195	.0231	459	1437	1.56
#4	A-54	.1756	.0127	2129	1497	1.48
#5	A-55	.1279	.0092	1463	1144	1.44
#6	A-56	.2784	.0201	211	759	1.55
#7*	A-63	.1975	.0143	222	1115	1.50

"GR. J" ON MAP

* Stratification (1/2 of sample)

					Ave. MC/GM/Dry Wt.	
W.O. Lake Line #IV	1	A-31	.0501	.0363	536	10698	1.65 (?)
Self Absorption	2	A-32	.0760	.0055	665	8750	1.35
" "	3	A-33	.0892	.0065	787	8823	1.38
" "	4	A-34	.1328	.0096	1356	10211	1.44
" "	5	A-35	.1328	.0096	1325	9969	1.44
" "	6	A 36	.2052	.0149	1903	9274	1.51
" "	7	A-37	.1199	.0086	1152	9607	1.43
" "	8	A-38	.1830	.0132	1718	9393	1.49
" "	9	A-39	.0617	.0045	557	9028	1.31
" "	10	A-40	.0470	.0034	887	18877	1.26
" "	11	A-41	.0731	.0052	834	11409	1.33
" "	12	A-42	.0563	.0041	533	9467	1.29

Using Line #5 Self Abs. curve

÷.222 ×.748 ×.782×10² ×4.58

...ETION ...CTION	C/H/GM₀	MC/GM DRY WT.	MC/GM WET WT.	MC/CORE 3"	MC/FT² 3" LAYER	MC/FT² TOTAL	AREA REPRESENT	TOTAL CURIES
56	11317	5.09×10^{-2}	3.80×10^{-2}	10.71	490.57			
54	4505	2.03×10^{-2}	1.52×10^{-2}	4.29	196.48			
56	2342	1.05×10^{-2}	0.79×10^{-2}	2.23	102.13			
48	2215	1.00×10^{-2}	0.74×10^{-2}	2.08	95.26			
.44	1647	0.74×10^{-2}	0.55×10^{-2}	1.55	70.99			
55	1045	0.47×10^{-2}	0.35×10^{-2}	0.99	45.34			
50	1672	0.75×10^{-2}	$.56\times10^{-2}$	1.58	72.36			
		11.13×10^{-2}			1073.07			
	ave =	1.59×10^{-2}			153.29	160.95		
					× 1.05			
Dry Wt	For Lower W.O.L.	2.15×10^{-2}						
5	17652							
5	11813							
8	12176							
14	14703							
4	14,355							
1	14,003							
3	13,738							
7	13,996							
1	11,827							
26	23,785							
33	15,174							
9	12,212							

LOCATION OF SAMPLE	DISH #	Net Wt.	GM/CM²	C/MIN.	C/MIN/GM	ABSORPTION CORRECTION	C/
Self ABS. LINE # V	A-64	.1171	✓.0085	364	3108	1.6	
	65	.0403	✓.0029	161	3995	1.2	
	66	.1804	✓.0130	649	3542	1.37	
	67	.2170	✓.0157	697	3212	1.5	
	68	.0753	✓.0054	235	3121	1.5	
	69	.0422	✓.0031	157	3720	1.3	
	70	.0132	✓.0009	63	4773	1.02	
	71	.0244	✓.0017	103	4221	1.15	
	72	.2875	✓.0208	921	3203	1.5	
	73	.1672	✓.0121	623	3726	1.3	
	74	.2796	✓.0202	818	2926	1.6	
	75	.3900	.0282	1184	3036	1.6	
STRATIFICATION-1st"	A-57	.0691	.0050	639	9103	1.33	
Line # V 2ND"	58	.0649	.0047	139	2142	1.32	
3rd"	59	.1313	.0095	15	114	1.44	
4th"	60	.0975	.0071	22	226	1.39	
5th"	61	.1088	.0078	13	119	1.41	
6th"	62	.1102	.0080	17	154	1.41	
7th"							
8th"							

ave of activity in 1st. 3" =

95 | 100 | factor by which

95

500
+15
95

RPTION RECTION	C/M/GM$_0$	MC/GM DRY Wt.	MC/GM Wet Wt	MC/Core 3"	MC ft² 3" Layer	MC/ft² Total
		.222 × .708	× 2.52	× 4.58		
1.6	4972	2.24×10⁻²	1.67	4.71	215.72	
1.2	4794	2.16×10⁻²	1.62×10⁻²	4.57	209.30	
1.37	4853	2.18×10⁻²	1.63×10⁻²	4.60	210.68	
1.5	4818	2.17×10⁻²	1.62×10⁻²	4.57	209.30	
1.5	4681	2.10×10⁻²	1.57×10⁻²	4.43	202.89	
1.3	4836	2.18×10⁻²	1.63×10⁻²	4.60	210.68	
1.02	4868	2.19×10⁻²	1.64×10⁻²	4.62	211.60	
1.15	4854	2.18×10⁻²	1.63×10⁻²	4.60	210.68	
1.5	4805	2.16×10⁻²	1.62×10⁻²	4.57	209.30	
1.3	4844	2.18×10⁻²	1.63×10⁻²	4.60	210.68	
1.6	4681	2.11×10⁻²	1.58×10⁻²	4.46	204.27	
1.6	4857	2.19×10⁻²	1.64×10⁻²	4.62	211.60	
1.33	12137					
1.32	2852					
1.44	164					
.39	304					
1.41	168					
1.41	217					
	15842					

1st. 3" = 95.0 # V

~ by [illegible] 1st" wet is multiplied by 1.05

÷ 13.8

LOCATION OF SAMPLE	DISH #	Net Wt.	GM/CM²	C/MIN.	C/M/GM	ABS. CORRECTION	C/M
W.O. LAKE #1	A-78	.4502	.0326	1408	3083	1.9	
Self ABS. LINE #2	79	.1074	.0077	455	4246	1.4	
" " " #3	80	.1304	.0094	448	3359	1.7	
" " " #4	81	.1307	.0095	703	5378	1.1	
" " " #5	82	.0247	.0017	135	5465	1.07	
" " " #6	83	.0540	.0039	207	3833	1.5	
" " " #7	84	.0570	.0041	277	4859	1.2	
" " " #8	85	.1440	.0104	501	3479	1.7	
W.O. LAKE #1	A-91	.2160	.0156	408	1888	1.48	
Self ABS. LINE #1	A-92	.1738	.0125	311	1789	1.56	
3	A-93	.1193	.0085	217	1819	1.54	
4	A-94	.2763	.0200	443	1603	1.75	
5	A-95	.4274	.0309	691	1617	1.73	
6	A-96	.0876	.0063	163	1861	1.508	
7	A-97	.0880	.0064	174	1977	1.42	
W.O. LAKE							
Line #2							
Activity #1	A-86	.3603	.0261	650	1804	1.72	
2	87	.2697	.0195	804	2981	1.10	
3	88	.3961	~~.0287~~	56	141	1.73	
4	89	.2743	.0198	348	1268	1.70	
5	90	.1253	.0090	92	734	1.55	

GROUP G ON MAP

CTION	C/MIN./GM	MC/GM DRY WT. (÷ 22 → ×.748)	MC/GM WET WT. (→ ×.282×10⁻²)	MC/CORE 3" (→ ×45.8 →)	MC/FT² 3" Depth	MC/FT² AREA Total Represented	TOTAL CURIES
.9	5876						
6	5944						
.7	5710						
.1	5915						
37	5847						
	5749						
2	5830						
7	5914						
8	2794	1.26×10^{-2}	$.942\times10^{-2}$	2.66	121.83		
.6	2791	1.25×10^{-2}	$.935\times10^{-2}$	2.64	120.90		
.4	2801	1.26×10^{-2}	$.942\times10^{-2}$	2.66	121.83		
5	2829	1.27×10^{-2}	$.950\times10^{-2}$	2.68	122.74		
3	2797	1.26×10^{-2}	$.942\times10^{-2}$	2.66	121.83		
0	2851	1.28×10^{-2}	$.957\times10^{-2}$	2.70	123.66		
2	2807	1.26×10^{-2}	$.942\times10^{-2}$	2.66	121.83		
	3103	1.39×10^{-2}	1.03×10^{-2}	2.90	132.82		
	5067	2.28×10^{-2}	1.71×10^{-2}	4.82	220.76		
3	2439	1.10×10^{-2}	0.82×10^{-2}	2.31	105.80		
	2156	0.97×10^{-2}	0.73×10^{-2}	2.06	94.34		
	1138	0.51×10^{-2}	0.38×10^{-2}	1.07	49.01		
				5	602.73	12	0.55

Ave. MC/FT² | Sample = 120.55

5 | 6.25 (1.25)

5/120/25

5/1.0 = 27.5

1.1.5

138.63

÷ 13.8 X

LOCATION OF SAMPLE	DISH #	Net. Wt	GM/CM²	C/MIN	C/M/GM	ABS. CORRECTION	C/M
LINE #6 #1	B-10	.1020	.0073	154	1509	1.06	16
W.O. LAKE #2	B-11	.1284	.0093	550	4283	1.08	46
#3	B-12	.0874	.0063	1114	12745	1.05	133
GROUP "K" #4	B-13	.1835	.0132	553	3013	1.11	33
ON MAP #5	B-14	.2352	.0170	2790	11862	1.13	134
LINE #6 STRATIF. #1	B-29	.1801	.0130	2290	12715	1.12	14
W.O. LAKE 2	B-30	.0791	.0057	1014	12819	1.04	133
3	B-31	.1615	.0117	1152	7133	1.10	7
4	B-32	.1419	.0102	132	930	1.09	1
5	B-33	.1203	.0087	61	507	1.08	
6	B-34	.0702	.0050	79	1125	1.04	1
7	B-35	.1211	.0087	22	181	1.08	
8	B-36	.1226	.0089	14	114	1.08	
9	B-37	.1175	.0085	23	195	1.08	
10	B-38	.1095	.0079	17	155	1.07	
LINE #6 SELF ABS.							
W.O. LAKE #1	B-15	.0571	.0041	421	7373	1.02	
2	B-16	.0968	.0070	664	6859	1.05	
3	B-17	.0378	.0027	281	7433	1.01	
4	B-18	.1366	.0026	838	6134	[illegible]	
5	B-19	.2269	.1644	1431	6306	1.19	
6	B-20	.2422	.1755	1404	5796	1.30	
7	B-21	.5049	.3659	2570	5090	1.48	

SECTION		Mc/gm DRY	Mc/gm		Mc/ft²	Mc/ft²		Total
6	1600	0.72×10⁻²	.538×10⁻²	1.517	69.480			
8	4625	2.08×10⁻²	1.556×10⁻²	4.387	200.925			
5	13382	6.03×10⁻²	4.510×10⁻²	12.720	582.576		1×25 M	180.24
1	3344	1.51×10⁻²	1.129×10⁻²	3.184	145.827			
3	13.404	6.04×10⁻²	4.518×10⁻²	12.741	583.537		or	
		16.38			1582.345	3.48.1150	794,970 sq'	
.12	14241	3.28	5 sample ave =		316.469			
04	13332				X 1.10			
.10	7846	35419						
.09	1014				342.590	Ant Lower WOR		
08	548				138.630			
04	1170				175.067	226.78		
.08	195				195.36			
08	123				160.950			
.08	211				348.126			
07	166	38,846			6) 1360.728	226.78		

0/0 acts in 1st 3" = 691.18

Factor by which 3" acts multiplied by = 1.10

10.0 DAH

Total

= ~~613.24~~

618.56

LOCATION		DISH #	Not	GM/CM²	C/MIN.	C/M/GM	ABS. CORRECT.
W.O. LAKE	1st"	B-22	.1488	.0108	550	3696	1.61
LINE #2	2ND"	B-23	.1852	.0134	18	97	1.65
STRATIF.	3rd."	B-24	.1223	.0089	14	114	1.56
	4th"	B-25	.1380	.0100	22	159	1.58
	5th"	B-26	.1394	.0101	14	100	1.58
	6th"	B-27	.1858	.0134	41	220	1.65
	7th"	B-28	.2467	.0178	19	77	1.70
Line #I - Self Abs.		D-48	.2082	.0151	168	807	
" 9/28/48	"	D-49	.1679	.0121	165	982	
"	"	D-50	.0715	.0052	61	853	
"	"	51	.1050	.0076	95	905	
"	"	52	.1563	.0133	113	723	
"	"	53	.2470	.0179	187	757	
"	"	54	.1745	.0126	134	768	
"	"	55	.2214	.0160	160	723	
"	"	56	.3836	.0278	249	649	
"	"	57	.6192	.0449	377	609	
"	"	58	.2605	.0189	326	1251	
"	"	59	.2537	.0184	314	1237	
Line #III Strat.	#1	D8	.1913	.0139	1634	8541	1.34
9-28-48	2	9	.0792	.0057	64	808	1.21
	3	10	.2076	.0150	79	381	1.36
	4	11	.1048	.0076	13	124	1.22
	5	12	.1878	.0136	21	112	1.33
	6	13	.1113	.0081	15	135	1.23
	7	14	.1134	.0082	9	79	1.23
	8	15	.2141	.0155	12	56	1.36

C/M/2 ...

RECT	
.1	5950
5	160
6	178
7	251
8	158
5	373
70	131
	7221

% activ. in 1st 3" = 87.07 for Line # II

Factor by which 1st 3" activ. is multiplied = 1.15

4	11445
1	978
6	518
22	151
33	149
23	166
23	97
36	76

12941

13580

First 3" activity is 95.29% of total

Factor by which 3" activity is Multiplied = 1.05

96

Sample Location	Dish #	Net Wt. (13.8)	GM/CM²	C/Min. (÷ Net. Wt.)	C/M/GM	Abs Corr.	C/M
Line # III Surf							
Abs. W.O. Lake	D-16	.1433	✓.0103	151	1053	1.09	
9-28-48	17	.0833	✓.0060	74	858	1.30	
	18	.1389	✓.0101	131	943	1.22	
	19	.1981	✓.0146	198	999	1.15	
OK	20	.2892	✓.0209	266	919	1.25	
	21	.2067	✓.0149	187	905	1.27	
	22	.4079	.0296	299	733	1.57	
	23	.4077	✓.0295	319	782	1.47	
	24	.5813	✓.0421	413	710	1.62	
	25	.7440	.0539	333	448	2.57	
	26	.1596	✓.0116	160	1002	1.15	
	27	.2301	✓.0167	184	798	1.44	
	28	.7227	✓.0524	446	617	1.86	
Line V Stratif 1st"	29	.1060	.0076	835	7877	1.39	10
2nd"	30	.0838	.0607	409	4880	1.25	6
3rd"	31	.3366	.0243	87	258	1.57	
9-28-48 4th"	32	.2384	.0172	33	138	1.53	
5th"	33	.2435	.0176	14	58	1.53	
OK 6th"	34	.1803	.0130	25	139	1.49	
7th"	35	.1478	.0107	32	216	1.46	
							18

Ave % acto in 1st 3" = 95.5

Factor by which 1st 3" acto. is Min

35 CORR.	C/MIN/GMO
1.09	
1.30	
.22	
.15	
.25	
1.27	
1.57	
1.47	
1.62	
2.57	
1.15	
1.44	
.86	
1.39	10949
1.25	6100
1.57	405 — 17454
1.53	211
1.53	89
1.49	207
1.46	315
	18276

3" = 95.5 for Line #5

is Multiplied = 1.05

✓	342.176	Line # 1
✓	138.63	Line # 2
✓	160.95	Line # 5
	395.85	Line # 4
✓	175.17	" # 3
	342.59	" # 1

6) [illegible]74 6) 1561.26 (220.78 ave.

12
36
96/1

LOCATION OF	DISH #	13.8 Net Wt	GM/CM²	Net Wt C/MIN.	C/MIN/GM	x abs corr fact ABS. CORR	C/M
SAMPLE #1	D-60	.3190	✓.0231	381	1194	1.50	
LINE #4 #2	61	.2948	✓.0213	386	1309	1.38	
W.O.DAM Self ABS. #3	62	.3237	✓.0234	408	1260	1.43	
#4	63	.2582	✓.0187	310	1200	1.50	
#5	64	.4349	✓.0315	458	1053	1.71	
#6	65	.4224	✓.0306	483	1143	1.57	
O.K #7	66	.2448	✓.0177	338	1380	1.30	
#8	67	.3092	✓.0224	414	1338	1.35	
#9	68	.4808	✓.0348	498	1035	1.74	
#10	69	.5418	✓.0392	558	1029	1.75	
#11	70	.1062	✓.0076	174	1638	1.10	
#12	71	.1275	✓.0092	219	1717	1.05	
Self ABS. above Upper Dyke	D-72	.1429	.0103	143	1001	1.52 ✓	15
	73	.2420	.0175	286	1182	1.29	15
	74	.6578	.0476	600	912	1.66	15
	75	.4052	.0294	366	903	1.38	15
O.K Not used	76	.1369	.0099	164	1198	1.27	15
	77	.4194	.0304	426	1016	1.49	15
	78	.3520	.0255	413	1173	1.29	15
	79	.4301	.0312	435	1011	1.50	15
	80	.4102	.0297	439	1070	1.42	
	81	.1420	.0103	174	1225	1.24	1
	82	.0892	.0064	117	1312	1.16	1

...er fact → ES. CORR	C/M/GM$_o$
1.50	
1.38	
1.43	
1.50	
1.71	
1.57	
1.30	
1.35	
1.74	
1.75	
1.10	
1.05	
52 ✓	1521
29	1512
66	1513
38	1517
27	1521
49	1513
27	1513
50	1516
42	
24	1519
16	1521

8421 Line # 1 — Line # 6

~~4.72 [illegible] Upper End [illegible]~~

~~[illegible]~~

~~67.21 [illegible]~~

$$
\begin{array}{r}
226.78 \\
6\,\overline{)\,1360.72} \\
12 \\
\hline
16 \\
12 \\
\hline
40 \\
36 \\
\hline
47 \\
42 \\
\hline
52 \\
48 \\
\hline
\end{array}
$$

100

Self ABS.	Dish #	Net Wt.	GM/CM²	C/MIN.	C/MIN/GM	ABS. CORR.
Between Dykes	D-83	.1290	.0093	549	4256	1.34
"	84	.2876	.0208	957	3328	1.71
"	85	.3141	.0228	1065	3391	1.68
"	86	.3389	.0246	1038	3063	1.86
"	87	.4321	.0313	1418	3282	1.73
"	88	.1057	.0076	1016	9612	0.59
"	89	.5929	.0430	2069	3489	1.63
"	90	.4349	.0315	1303	2996	1.90
"	91	.1110	.0099	455	.4099	1.39
"	92	.6507	.0472	1822	2801	2.03
"	93	.1046	.0076	488	4665	1.22
"	94	.0693	.0050	299	4315	1.32

Fort. Peng Stratification	Dish #	Net	GM/CM²	C/MIN.	C/MIN/GM	ABS. COR	C/M
	E2	.1101	.0079	2853	[illegible]	1.[illegible]8	30.
	E3	.0542	.0039	3208	[illegible],182	1.10	65.
SAMPLE #II	E4	.0363	.0026	1333	36,722	1.06	38.
Near East	E6	.0248	.0018	128	5161	[illegible]	[illegible]
side - East	E7	.0291	.0021	73	2509	[illegible]	[illegible]
edge of Cliff	E8	.0371	.0027	216	5829	1.07	6
	E9	.0210	.0015	35	1666	[illegible]	[illegible]
	E10	.0408	.0030	15	367	[illegible]	
	E11	.0612	.0044	61	996	[illegible]	
	E12	.0404	[illegible]	1472	36,436	1.08	39
SAMPLE #III	E13	[illegible]	[illegible]	4245	[illegible]	[illegible]	49
	E15	.0608	[illegible]	1491	24,523	1.11	27
Near Center	E16	.0659	[illegible]	3022	45,857	[illegible]	51
Knee - Deep	E17	.0952	[illegible]	6211	65,242	[illegible]	76
in Lit	E18	.0981	.0071	2863	29,184	1.17	34
	E19	.0593	.0043	1562	26,340	[illegible]	[illegible]
	E20	.0810	[illegible]	2518	31,086	[illegible]	3[illegible]
	E21	.0952	[illegible]	339	[illegible]	[illegible]	[illegible]
	E22	.0525	[illegible]	113	2152	[illegible]	2[illegible]
	E23	[illegible]	[illegible]	120	[illegible]	[illegible]	[illegible]
	E24	.0882	[illegible]	129	[illegible]	[illegible]	16
	E25	[illegible]	[illegible]	87	[illegible]	[illegible]	[illegible]
	E26	[illegible]	[illegible]	65	[illegible]	[illegible]	[illegible]
	E27	.0610	[illegible]	139	[illegible]	[illegible]	[illegible]
	E28	.0700	[illegible]	62	[illegible]	[illegible]	[illegible]
	E29	.0948	[illegible]	84	[illegible]	[illegible]	[illegible]
	E30	.0619	[illegible]	48	[illegible]	[illegible]	[illegible]
	E31	.0689	[illegible]	34	[illegible]	[illegible]	[illegible]

C/M/GMo	
[illegible].576	
65,107	
[illegible]	
[illegible]	
2634	
6229	
1733	
396	
1155	
39,351	151,9[illegible]
49,716	
27221	
51360	128,297
76,333	
34,125	
[illegible]	
35749	
[illegible]	
2367	
[illegible]	
1697	
[illegible]	
926	
[illegible]	
[illegible]	
[illegible]	
[illegible]	
559	[illegible]

88.57 [illegible] 1st 3'

[illegible] 1st 3"

Inh. Pond	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	C/M
Stratification	E-32	.0429	.0031	[illegible]	38,[illegible]	[illegible]	41
Sample #1	E-33	.0743	[illegible]	[illegible]	[illegible]	[illegible]	56
3rd "	34	[illegible]	.0035	[illegible]	[illegible]	[illegible]	45
4th "	35	[illegible]	.0060	[illegible]	[illegible]	1.15	55
5th "	36	[illegible]	.0051	[illegible]	5107	1.13	5[illegible]
6th "	37	[illegible]	.0039	[illegible]	[illegible]	1.10	[illegible]
7th "	38	[illegible]	.0054	[illegible]	[illegible]	1.14	2[illegible]
8th "	39	[illegible]	.0059	129	1592	[illegible]	1[illegible]
9th "	40	[illegible]	.0067	108	1381	1.17	1[illegible]
10th "	41	.1201	[illegible]	[illegible]	[illegible]	1.20	
11th "	42	.0734	.0053	92	1253	1.13	1[illegible]
12th "	43	.0544	.0039	[illegible]	772	1.10	
Sample #4	E-44	.0779	[illegible]	5361	68,819	1.14	7[illegible]
	45	.1122	[illegible]	709	68,718	1.18	81
	46	.1338	.0097	10094	75441	1.22	9[illegible]
	47	.1147	.0083	4782	41,691	1.19	4[illegible]
	48	.0986	[illegible]	3464	35132	1.17	4[illegible]
	49	.0771	[illegible]	4030	52,267	1.14	5[illegible]
	50	.0735	[illegible]	661	7993	1.13	10[illegible]
	51	.0504	[illegible]	166	3294	[illegible]	3[illegible]
	52	.1226	[illegible]	261	2129	1.20	2[illegible]
	53	.0919	[illegible]	[illegible]	[illegible]	[illegible]	1[illegible]
	54	.0990	[illegible]	[illegible]	[illegible]	[illegible]	3[illegible]
	55	.1399	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	56	.1361	[illegible]	[illegible]	1258	[illegible]	[illegible]
	57	.0588	[illegible]	[illegible]	[illegible]	[illegible]	
	58	[illegible]	[illegible]	[illegible]	[illegible]	1.17	

	41463
	51 [illegible]
	[illegible] 388
	5328
	771
	388
.14	2495
	1831
.17	1616
	799
.13	1416
.10	849
.14	78454
	81575
.22	38138
.19	49612
.17	41104
	37587
	13162
	3540
	2555
	1274
	3026
	3683
	[illegible]
	[illegible]
1.11	552

144,25 — 165,27 — 215.67

ave. for 4 samples

52.75

6857

55.14 | 5875

1250

1.250

106 STRATIFICATION SAMPLES.

÷13.8

SAMPLE LOCATION	DISH #	Net Wt	GM/CM²	C/MIN.	C/MIN/GM	ABS. CORRECTION	C/M
UPPER END 1st	E-1	0.1337	.0097	707	5287	1.2	6
W.O. LAKE 1st"	E-2	0.0556	.0062	481	5619	1.14	6
2nd"	E-3	0.0907	.0066	68	749	1.15	
SAMPLE # I 2nd"	E-4	0.0771	.0056	53	687	1.13	
3rd"	E 6	0.1019	.0074	41	402	1.18	
4th"	E-7	0.1555	.0113	22	141	1.24	
5th"	E 8	0.0400	.0029	103	2575	1.06	
6th"	E 9	0.1008	.0073	23	228	1.17	
SAMPLE II 1st"	E-15	0.1284	.0093	364	2835	1.21	3
2nd"	16	0.1713	.0124	101	590	1.26	
3rd"	17	0.1612	.0117	108	670	1.24	
4th"	18	0.2002	.0145	135	674	1.30	
5th"	19	.3382	.0245	86	254	1.47	
6th"	20	.1688	.0122	35	207	1.25	
7th"	22	.3227	.0234	23	71	1.45	
8th"	23	.2548	.0185	18	71	1.37	
9th"	24	.3033	.0220	23	76	1.44	
SAMPLE # III 1"	E-25	.0720	.0052	806	11194	1.13	12
2nd"	E-26	.0623	.0045	404	6484	1.11	7
3rd"	E-27	.0646	.0047	39	603	1.[illegible]	
4th"	28	.0184	.0013	24	1304	1.03	1
5th"	29	.1072	.0078	28	261	1.19	
6th"	30	.0778	.0056	35	450	1.13	
7th"	31	.1212	.0088	25	206	2.56	
8th"	32	.1481	.0107	22	149	2.66	

95

ECTION	C/MIN/GM			
	6344			
	6406			
	861	13611		
	776			
	474		75.49 %	
	174			
	2729			75.49
	266	18030		73.36
				86.57
				96.62
				3332.04
	3430			
	743			
	831	5002		
	876			
	373			
	258		73.36 %	
	103			
	97			
	109	6818		
3	12649			
1	7197			
	669	20515		
3	1438			
9	311			
3	509		86.57 %	
6	527			
6	396	23696		

Ave = 83.01 % Cor in 1st. 3" of Factor = 1.2

STRATIFICATION

F 108

Sample Location	Dish #	Net Wt.	Gm/cm²	C/Min.	C/M/GM	ABS. Correction	C/M
UPPER END 1"	E-33	.2395	.0174	5284	22063	1.36	25
W.O. Lake 2"	E-34	.3036	.0242	1345	4430	1.46	6
Sample # 3"	E-35	.2981	.0216	33	610	1.43	8
IV = 4th	E-36	.2940	.0213	23	457	1.42	6
5th	E-37	.2333	.0169	86	369	1.34	
6th							
LINE #4 1"	E-39	.0638	.0046	546	8558	1.10	
W.O. Lake 2"	E-40	.0661	.0048	697	10544	1.11	1
Sample 3"	E-41	.1047	.0076	140	1337	1.16	
#I 4th	E-42	.0927	.0067	28	302	1.14	
5th	E-45	.1882	.0136	27	143	1.26	
Sample # 1"	E-38	.2453	.0178	121	493	1.34	
II 2"	E-46	.4529	.0328	155	342	1.59	
LINE # 4 - 3"	E-47	.2371	.0172	39	164	1.33	
4"	E-48	.4403	.0319	114	259	1.57	
5"	E-49	.2893	.0210	31	107	1.40	
Sample 1"	E-75	.1993	.0144	825	4139	1.28	
# III 2"	E-79	.1946	.0141	35	180	1.27	
LINE # 3"	E-80	.2085	.0151	29	139	1.29	
4 4th	E-81	.1433	.0104	27	139	1.21	
5th	E-82	.2982	.0216	37	124	1.44	

C/M/GMo

2540/
6468
872 32741
649
494 33,881

16,620

9414
11704
1550 22668
344
180 23192

97.74 %

661
544
218 1423
407
150 1980

71.87 %

5298
228
243 5769
161
178 6115

94.34 %

ave = 87.98 %

3 | 263.95
24
23
21
29
23
25

1.4

8793
12720
8798
3222

LOCATION OF SAMPLE	DISH #	GROSS WT	TARE WT	NET WT	THICKNESS GM/CM² (÷ 13.8)	C/M/GROSS	C/M/GRAM (÷ NET WT.)	ABSORPT CORREC
#1 Sediment.	1-521	10.3088	10.2780	.0308	.0022	41	1331	
#2 " "	1-522	10.3784	10.3236	.0548	.0039	39	712	2.
#3 " "	1-523	12.7332	12.6550	.0782	.0056	35	448	
#4 " "	1-445	12.8074	12.7053	.1021	.0073	40	397	
#5 " "	1-570	13.0436	12.9408	.1028	.0073	42	408	
#6 " "	1-571	11.5372	11.4810	.0662	.0048	52	785	
#7 " "	1-572	13.0425	12.9541	.0884	.0064	74	837	
#8 " "	1-573	10.9000	10.8343	.0657	.0048	37	562	
#9 " "	1-574	10.7896	10.6234	.1662	.012	32	193	
#10 " "	1-575	10.6332	10.4821	.1511	.011	41	271	

Composite of samples #1 - 11. Obtained at random around bldgs. in restricted area.

/GRAM	ABSORPTION CORRECTION	C/M/GMo	MC/GM Dry Wt.	MC/GM Wet Wt	MC/CORE 3"	MC/ft² TOTAL	AREA REPRESENT	Total CURIES	
331									
712	2.7								
448									
397									
108									
785									
37									
62									
93									
71									

132

LOCATION OF SAMPLE	DISH #	GROSS Wt	TARE Wt	Net Wt	GM/CM²	C/MIN.	C/M/GRAM	ABSOR CORRC
#1 outside Lab window	1-511	See filed data	Sheets	.1256	.0091	24	191	
#2 REAR of 104-B {by ditch	1-512			.1551	.0112	22	142	
#3 Front 104-B Center door	1-513			.1030	.0074	30	291	
#4 West end - Front 104-B	1-514			.1768	.0128	39	221	
#5 End of walk S 104-B {in ditch	1-515			.0433	.0031	32	739	
#6 Back 717D (in ditch)	1-516			.0638	.0046	35	541	
#7 So. Bldg. 735-B (IN ")	1-437-1			.1017	.0073	50	491	
#8 So " 105 above dyke	1-517			.0845	.0061	45	532	
#9 " east 105 W. of road	1-518			.1564	.0113	44	217	
#10 West 707C-15 below surface	1-519			.0921	.0067	43	467	
#11 75' West 707C-W. of road	1-520			.1188	.0086	48	404	

/GRAM	ABSORPTION CORRECTION	C/M /GM₀	MC/GM DRY WT.	MC/GM WET WT	MC/CORE 3"	MC/FT² TOTAL	AREA REPRESENTED	TOTAL CURIES	
91									
42									
91									
21									
39									
41									
91									
32									
17									
67									
04									

÷ 13.8 ÷ net wt

Location of Sample	Dish #	net wt	GM/CM²	C/MIN.	C/M/GM	ABSORPTION CORRECTION.
Lawler's Garden - Bean row	1	0.1616	.0117	28	173	
" " " "	2	0.1526	.0110	19	124	
Check - Close to Cath line pole	3	0.1018	.0073	19	186	
Lawler's Small Garden onion row	4	0.0841	.0061	23	273	
Above Small Garden Old sludge pile site	5	0.0890	0064	25	281	
Small Garden Beet row	6	0.1107	.0080	20	181	

Clinch River "MUD" Samples
"Bottom MUD"

Location of Sample	Dish #	Net Wt.	GM/CM²	C/MIN	C/M/GM	Absorptivity Correction
Clinch River - Mile 16	A-43	.2087		17	81	.036 [illegible]/gm
" " " 17	A-44	.2923		30	102	
" " " 19	A-45	.2349		14	60	
" 5' From Bank 19	A-46	.5247		29	55	x-1.2 .025 [illegible]/gm
Mouth of W.O. Creek	A-47	.2763		29	105	

Fish Collected ON SCREEN At W.O. DAM

11-29-48

3 1000

Dish #	(Ashed) Net Wt. ÷ 13.8	GM/CM²	C/Net	C/M/GM	Size of Fish	Part of Fish	C/M/G
E-51	.0219	.0016	368	16804	1.55 2nd Smallest	Gills & Eye	260
E-53 ✓	.0124	.0009 (1.0)	508	40968 (1.38)	" " (1.38)	Intrels	[illegible]
E-54	.0131	.0009 (1.0)	502	38320 (2.26)	2nd largest	Gills	[illegible]
E-55	.0124	.0009 (1.0)	170	13709	2nd largest	~~Gills~~ Flesh	30
E-56	✓.0255	.0018	438	17176 (1.70)	Largest	Intrels	29
E-57	✓.0554	.0040	718	12960	(2.48) "	Gills	32
E-58	✓.0838	.0061	620	7398 (4.19)	Largest	Back Bones	30
E-59	✓.0420	.0030	709	16881 (2.07)	Smallest	Gills	34
E-63	✓.0156	.0011	138	8846 (3.5)	Smallest	Flesh	30
E-64	✓.0106	.0008	257	24245 (1.27)	"	Intrels	30
E-50	✓.0025	.0002	45	18000	2nd Largest ~~Eyes~~ (1.06)	Eyes	19
E-88	✓.0467	.0034	640	13704 (2.26)	2nd Smallest	Flesh	3

111 94 20 hrs

96
12
115

DAM

of Fish	C/M/GM$_0$
+ Eye	26046 *
's	56536 □
	52881 *
- Flesh	30,982 △
ls	29199 □
	32141 *
Bones	30997
	34944 *
	30961 △
ls	30791 □
s	19080
h	30971 △

Dish #

131	339
150	340
175	341
119	342
139	343
	344
	345
149	346
142	347
171	348
177	349
163	350
165	351
193	352
164	353
154	354
167	355
143	356
165	357
	358
	359
	360
	361
	362
	363
	364
	365
	366

Self abs. Between Dykes
" abs. above upper Dyke

Self abs. Line # 1
" " Line # 3

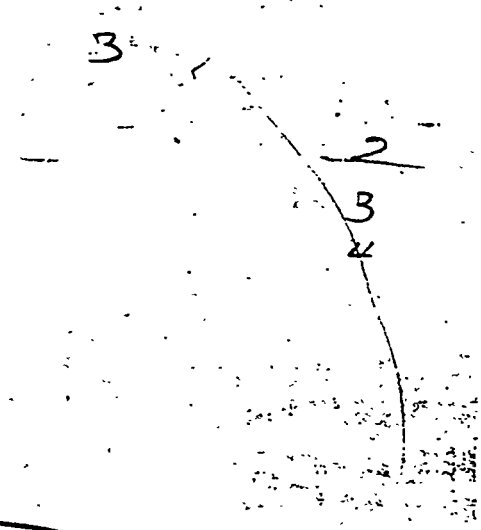
Strat. " # 1

Strat. " # 3

Strat. " # 4

Self abs. " # 5
" " " # 4

Strat. " # 5



1 — $\frac{1}{2} + \frac{1}{2}$ orange

2nd $\frac{1}{2} + \frac{1}{2}$ "

3rd $\frac{1}{2} + \frac{1}{2}$ "

Had none left

Dish #

126 311
[illegible] 312
127 313
136 314
115 315
[illegible] 316
[illegible] 317
160 318
159 319
144 320
121 321
138 322
156 323
132 324
16[illegible] 325
130 326
159 327
141 328
153 329
13[illegible] 330
13[illegible] 331
13[illegible] 332
14[illegible] 333
[illegible] 334
[illegible] 335
137 336
118 337
13[illegible] 338

	Dish #
	283
	284
	285
	286
94	287
81	288
75	289
113	290
105	291
41	292
35	293
117	294
53	295
50	296
114	297
58	298
101	299
100	300
49	301
93	302
140	303
155	304
155	305
116	306
152	307
150	308
124	309
125	310

Disk #

255
256
257
258
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260
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264
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267
268
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282

Disk #	Book & Pg.	Descript.
227		
228		
229		
230		
231		
232		
233		
234		
235		
236		
237		
238		
239		
240		
241		
242		
243		
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245		
246		
247		
248		
249		
250		
251		
252		
253		
254		

Disk #	Book & pg	Description		
199	Mud 12	Self absorption	[illegible] (A.	10/14
200	" 14	"	"	"
201	" 14	"	"	"
202	Mud 14	Stratification	Lower Lake (W.C)	10/14
203	" "	"	"	"
204	" "	"	"	"
205	" "	"	"	"
206	" "	"	"	"
207	" "	"	"	"
208	" "	Self absorption	"	"
209	" "	"	"	"
210	" "	"	"	"
211	" "	"	"	"
212	" "	"	"	"
213	Mud "	Self absorption	upper Dyke (B)	10/14
214	" "	"	"	"
215	" "	"	"	"
216	" "	"	"	"
217	" "	"	"	"
218	Mud "	Stratification	upper Dyke	10/14
219	" "	"	"	"
220	" "	"	"	"
221	" "	"	"	"
222	" "	"	"	"
223	" "	"	"	"
224	" "	"	"	"
225	" "	"	"	"
226	" "	"	"	"

Disk #	Book + Pg.	Descript.
171	Water 34	Self Absorption SB Silt
172	" 34	" SB "
173	" 34	" SB "
174	" 38	Acacia SB Silt
175	" 40	" WOD Silt
176	Mud 12	Stratification WO Tape 10/14
177	" 12	" " "
178	" 12	" " "
179	" 12	" " "
180	" 12	" " "
181	" 12	" " "
182	" 12	Wet-Dry WO Tape 10/14
183	" 12	Self Absorption " "
184	" 12	" " " "
185	" 12	" " " "
186	" 12	" " " "
187	" 12	" " " "
188	Mud 12	Stratification Upper Dyke 10/14
189	" "	" " "
190	" "	" " "
191	" "	" " "
192	" "	" " "
193	" "	" " "
194	" "	" " "
195	" "	" " "
196	" "	Self Absorption Upper Dyke 10/14
197	" "	" " "
198	" "	" " "

182

Dish #	Book + Pg		Descript
143	Water	36	Leach WOD Silt
144	"	38	" SB Silt
145	"	40	" WOD Silt
146			
147	Mud	12	Wet. Dry upper Dyke 10/14
148	Water	36	Self Abs. WOD Silt
149	"	"	" "
150	"	40	Silt WOD 10/8
151	"	38	" SB 10/9
152	"	40	" WOD 10/9
153	"	38	" SB 10/10
154	"	40	" WOD 10/10
155	"	38	" SB 10/13
156	"	40	" WOD 10/13
157	"	38	Supern SB 10/13
158	"	38	" SB 10/13
159	"	38	" SB 10/9
160	"	38	" SB 10/10
161	"	40	" WOD 10/9
162	Water	36	Self Abs. WOD Silt
163	"	36	" " "
164	"	36	" " "
165	"	36	" " "
166	"	36	" " "
167	"	34	" SB Silt
168	"	34	" "
169	"	34	" "
170	"	34	" "

Dish #	Book + Pg	Descript.
115	Water 30	Supern. SB 10/7
116	" "	" SB 10/7
117	" 32	" WOD 10/6
118	" "	" WOD 10/6
119	" "	" WOD 10/3
120	" "	" WOD 10/3
121	" 30	Supern. SB 10/6
122	" 30	" " 10/6
123	" 30	" " 10/3
124	" 30	" " 10/8
125	" 30	" " 10/5
126	" 30	" " 10/3
127	" 32	" WOD 10/7
128	" "	" WOD 10/7
129	" 32	Silt WOD 10/3
130	" 30	Silt SB 10/3
131	" 32	" WOD 10/6
132	" 30	Silt SB 10/6
133	" 32	" WOD 10/7
134	" 30	Silt SB 10/7
135	" 30	" " 10/8
136	" 40	Supern. WOD 10/13
137	" 40	" " 10/13
138	" 40	" " 10/10
139	" 40	" " 10/10
140	" 40	" " 10/5
141	" 40	" " 10/8
142	" 34	Leach SB Silt

Disk #	Book + pg.	Description	
87	Mud 6	Spillway	Self Absorbs.
88	"	"	"
89	"	"	Floats.
90	"	"	"
91	"	"	"
92	"	"	"
93	"	"	"
94	"	"	"
95	"	"	"
96	"	"	"
97	"	"	"
98	"	"	"
99	"	Lake above Trees	wet Dry
100	"	"	Self Absorbs.
101	"	"	"
102	"	"	"
103	"	"	"
104	"	"	"
105	"	"	"
106	"	"	"
107	"	"	"
108	"	"	Floats
109	Mud 8	"	"
110	"	"	"
111	"	"	"
112	"	"	"
113	"	"	"
114	"	"	"

261	1392
	1512
	13100
	9430
	9990
246	9620
	1780
	36380
	7190
	5320
	13980
248	3750
	4990
	22200
242	1340
239	8610
	1610
	14020
	29000
	8570
257	12870
240	21750
258	6870
251	18510
	5130
	23260
	17600
	53000
	27710
	27880
250	13100
252	42800
255	1690
253	73) 475954 *
	144228 *

Index to Dishes.

Dish No.	Date	Description	Page.
59	9/18/47	Stratification 7th"	4 Mud.
60	"	" 6th	4 "
61	"	" 4th	4 "
62	"	" 10th	4 "
63	"	" 5th	4 "
64		Silt - mud Swamp	Water (22)
65		" "	"
66		" "	"
67		" "	"
68		Silt - Marsh above Lake	Water (24)
69		" "	"
70		" "	"
71		" "	"
72		Silt - W. O. Dam	Water (26)
73		"	"
74		"	"
75		"	"
76		Silt - WW. Bridge	Water (28)
77		"	"
78		"	"
79		"	"
80			
81	9/18/47	S. Pond 11th"	4 Mud
82	10/6/47	Wet, dry sample -	6 "
83	10/6/47	Self absorbion	6 "
84	"	"	4 "
85	"	"	4 "
86	"	"	4 "

...e.	
Mud.	263
"	
"	
"	260
"	
(22)	
(24)	
26)	
28)	247
	243
	268
	254
	264
Mud	267
"	245
"	262
"	270
"	256
"	

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INDEX TO DISHES.

DISH NO.	DATE	DESCRIPTION	LOCATION	PAGE
59	9/18/47	STRATIFICATION -	7th IN. POND	4
60	"	" "	6th " "	4
61	"	" "	4th " "	4
62	"	" "	10th " "	4
63	"	" "	5th " "	4
64				
65				
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67				
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DISH NO.	DATE	DESCRIPTION	PAGE
30.	Water (20)	Silt Above Swamp	
31.	Water (22)	Mud Swamp Supernat.	
32	Mud (4)	Wet vs. Dry Weight	
33	?		
34	Mud (4)	Self Absorp.	
35	"	"	
36	"	"	
37	"	"	
38	"	"	
39	"	"	
40	"	"	
41	Mud (4)	Stratification	
42	9/18/47	I SELF ABSORPTION - POND	4 Mud
MUD 43	"	" "	4 "
44	"	II STRATIFICATION - 2ND " - POND	4 "
45	?		
46	9/18/47	STRATIFICATION 3RD IN.	4 Mud
47	? 10/14/47	Wet Dry Sample	"
48	9/18/47	STRATIFICATION 4th IN.	4 Mud
49	"	" 5th "	4 "
50	"	" 6th "	4 "
51	?		
52	9/18/47	STRATIFICATION - 7th IN.	4 Mud
53	"	" 8th "	4 "
54	"	II STRATIFICATION - I. POND 9th "	4 "
55	"	" 1th "	4 "
56	"	" 2nd "	4 "
57	"	" 3rd "	4 "
58	"	" 8th "	4 "

265

259

244

.0444

13.8 | .6412

552

892

828

6400

Mud

"

"

Mud 241

" 16

Mud 269

"

"

267

Mud 266

"

" 249

"

"

"

"

198

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1	Water (3)	Silt	WO Dam
2	"	"	"
3	"	"	"
4	Water (3)	"	Marsh
5	"	"	"
6	"	"	"
7	"	"	"
8	Water (3)	Supernatant	Marsh
9	" (3)	Silt	Mid Swamp
10	"	"	"
11	"	"	"
12	"	"	"
13	Water (3)	Supernatant	Swamp
14	" (24)	"	Marsh
15	" (20)	"	Above Swamp
16	" (16)	Silt	above S.B.
17	"	"	"
18	"	"	"
19	"	"	"
20	" (18)	Supernatant	S.B.
21	" (28)	Supernatant	WW
22	" (18)	Silt	S.B.
23	"	"	
24	"	"	
25	" (26)	Superna.	WOD
26	" (16)	"	Above SB
27	" (20)	Silt	Above Swamp
28	"	"	"
29	"	"	"

DENSITY DETERMINATION
"Water - Mud"

SPILLWAY AREA

Disb # 863 : net wt H_2O = 14.3982
net wt. mud (wet) = 26.1990
DRY " " = 19.5960

$$\frac{26.1990}{14.3982} = 1.8260 \text{ gm/cm}^3$$

Self abs. Between Dykes
" abs. above upper Dyke

Self abs. Line # 1
" " Line # 3

Strat. " # 1

Strat. " # 3

Strat. " # 4

Self abs. " # 5
" " " # 4

Strat. " # 5

3

2
3
4

1 — $\frac{1}{2}$ + $\frac{1}{2}$ orange

2nd $\frac{1}{2}$ + $\frac{1}{2}$ "

3rd $\frac{1}{2}$ + $\frac{1}{2}$ "

Had none left