TA-21

ANNUAL SUMMARY REPORT OF OPERATING DATA

LIQUID WASTE MANAGEMENT

1985

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1985 ANNUAL SUMMARY OF OPERATIONS TA 50 INFLUENT

Month	Hrs of Operation	Flow	Ave Trmt Rate	Removal Factor (Gross α)	Am^{241}	Cs^{137}	Pu^{238}	Pu^{239}	Sr^{89}	Sr^{90}	Gross α	Gross β	U^{234}	^{3}H
	Hrs. Hrs.	Liters $x10^3$	LPM		mCi	mCi	mCi	mCi	mCi	mCi	mCi	mCi	mCi	mCi
Jan.	65.7	$2.67x10^6$	677	99.66%	229.6	0.01	165.5	320.4	0.4	0.3	712.9	56.1	4.3	-
Feb.	66.5	$2.50x10^6$	626	99.72%	247.5	2.5	187.5	232.5	0.2	0.6	685.0	12.5	5.0	-
March	67.4	$2.58x10^6$	637	99.96%	1290.0	0.7	361.2	1186.8	0.3	0.7	2113.0	12.9	33.5	-
April	66.5	$2.53x10^6$	634	99.76%	303.6	1.7	154.3	253.0	0.5	0.2	759.0	81.0	22.8	-
May	64.7	$2.48x10^6$	640	99.56%	421.6	0.7	104.2	178.6	0.4	0.1	739.0	54.6	32.2	-
June	55.0	$2.18x10^6$	662	99.62%	150.4	17.7	106.8	161.3	2.6	0.2	425.1	80.7	13.1	-
July	57.7	$2.48x10^6$	717	99.76%	191.0	15.6	81.8	162.4	5.2	0.02	501.0	124.0	27.3	-
Aug.	53.2	$2.34x10^6$	733	99.35%	66.7	1.1	53.8	106.5	1.9	0.1	299.5	30.4	29.3	-
Sept.	47.1	$2.17x10^6$	767	99.22%	80.3	0.5	45.6	94.4	3.5	0.10	204.0	52.1	2.8	-
Oct.	49.7	$2.35x10^6$	787	99.55%	105.5	0.03	44.6	111.4	2.6	0.2	265.0	84.4	2.8	-
Nov.	46.9	$1.92x10^6$	683	99.95%	681.6	0.2	107.5	1420.8	0.3	0.09	2438.4	34.6	25.9	-
Dec.	49.0	$2.11x10^6$	719	99.56%	109.7	7.4	45.4	105.5	12.7	0.4	268.0	90.7	12.7	-
Total	689.4	$2.83x10^7$			3877.5	48.14	1458.2	4333.6	30.6	3.01	9409.9	714.0	211.7	-
Monthly Average	57.45	$2.36x10^6$	690	99.63%	323.1	4.01	121.5	361.1	2.55	0.25	784.2	59.5	17.6	-

1985 ANNUAL SUMMARY OF OPERATIONS TA-50 EFFLUENT

MONTH	FLOW Liters	Am^{241} mCi	Cs^{137} mCi	Pu^{238} mCi	Pu^{239} mCi	Sr^{89} mCi	Sr^{90} mCi	Gross α mCi	Gross β mCi	U^{234} mCi	^{3}H mCi
Jan.	2.61×10^6	0.86	0.42	0.39	0.41	0.05	0.02	2.45	15.91	0.23	570.82
Feb.	2.57×10^6	0.51	2.83	0.62	0.69	0.06	0.54	1.91	10.54	0.46	231.33
March	2.47×10^6	0.27	0.67	0.40	0.32	0.04	0.12	0.88	0.37	0.08	180.38
April	2.50×10^6	0.80	0.95	0.28	0.40	0.14	0.10	1.85	14.50	0.30	222.13
May	2.70×10^6	0.62	0.78	0.68	0.89	0.07	0.14	3.24	3.78	0.51	712.80
June	2.05×10^6	0.37	5.74	0.37	0.47	1.64	0.12	1.60	31.98	0.41	428.45
July	2.64×10^6	0.32	14.52	0.26	0.34	0.71	0.02	1.19	37.75	0.29	351.12
Aug.	2.58×10^6	0.35	1.57	0.23	0.44	1.59	0.03	1.96	9.02	0.95	3531.18
Sept.	2.07×10^6	0.50	0.31	0.19	0.39	0.80	0.09	1.59	10.53	0.55	757.89
Oct.	2.15×10^6	0.45	0.39	0.25	0.47	1.91	0.03	1.20	7.94	0.40	547.05
Nov.	2.27×10^6	0.23	0.14	0.18	0.61	0.48	0.02	1.31	4.55	0.27	33643.36
Dec.	1.99×10^6	0.14	2.79	0.08	0.32	1.55	0.02	1.18	24.29	0.72	28266.52
TOTAL	2.86×10^7	5.42	31.11	3.93	5.75	9.04	1.25	20.36	171.16	5.17	69443.03
AVERAGE	2.38×10^6	0.45	2.59	0.33	0.48	0.75	0.10	1.70	14.26	0.43	5786.92

1985
TA-50 Vacuum Filter Operations

Month	No. of Drums	Total Volume(l)	(Ci) Pu^{238}	(Ci) Pu^{239}	(Ci) Am^{241}	(Ci) U^{235}
January	123	25,707	0.657	0.845	1.033	not detectable
February	80	16,720	0.37	0.82	1.10	not detectable
March	94	19,437	0.486	0.994	1.160	not detectable
April	67	14,003	0.618	1.60	2.11	not detectable
May	14	2,926	0.096	0.148	0.209	0.0003
June	56	11,704	0.232	0.415	0.636	0.0007
July	40	8,360	0.167	0.295	0.485	0.002
August*	77	16,093	0.253	0.371	0.49	0.0011
September*	32	6,688	0.048	0.108	0.115	0.0003
October*	36	7,524	0.021	0.047	0.046	0.0003
November*	36	7,560	0.026	0.062	0.059	8.0×10^{-7}
December*	9	1,890	0.006	0.015	0.014	2.0×10^{-7}
Totals	664	138,612.0	2.98	5.72	7.457	0.0047

*NON-RETRIEVABLE DRUMS

CHEMICAL QUALITY OF TA-50 INFLUENT AND EFFLUENT

Calendar 1985

Determination	Limit Detec. (mg/ℓ)	TA-50 INFLUENT			TA-50 EFFLUENT		
		Avg.	High	Low	Avg.	High	Low
Alk(P)	3	299.0	1830.0	0	89.7	790.0	0
Alk(T)	3	427.0	2030.0	0	537.0	1180.0	100.0
NH_3-N	.02	19.8	125.0	0.850	15.5	79.5	1.63
Cd	0.0001	0.0132	0.0620	0.0025	0.00107	0.004	0.0004
Ca	1	21.80	47.0	6.0	46.5	122.0	0.250
COD	3	209.0	1070.0	18.0	83.60	481.0	41.0
Cl	1	104.0	310.0	22.9	101.0	300.0	22.0
Cr+6	0.004	0.0747	0.340	0	0.0342	0.165	0.005
CrTotal	0.004	0.255	0.570	0.0450	0.0597	0.500	0.015
Cond	µS/cm	5600.0	21700.0	864.0	4840.0	12300.0	42.0
Cu	0.002	12.1	71.0	0.210	1.05	8.76	0.188
CN	0.004	0.541	7.10	0.0450	0.314	1.00	0.065
F	0.01	40.7	165.0	8.20	28.4	58.0	2.70
Hard. Tℓ	2	28.8	68.6	7.07	48.1	125.0	0.870
Pb	0.0001	0.160	0.950	0.0190	0.0163	0.230	0.0001
Mg	1	7.02	47.0	0.0590	1.59	4.00	0.0200
Hg	0.0001	0.0378	0.380	0.0008	0.000985	0.008	0.0001
NO_3-N	0.01	469.0	2400	27.0	376.0	881.0	80.0
pH	0.1	9.8	12.1	1.9	8.8	11.7	6.9
PO_4	0.01	8.71	19.5	0.830	1.57	7.96	0.110
Na	0.01	916.0	4380.0	35.0	896.0	2200.0	190.0
Solids(T)	5	3960.0	15700.0	468.0	3570.0	8190.0	356.0
SO_4	0.6	169.0	1400.0	14.0	202.0	1220.0	21.0
Zn	0.001	1.29	16.0	0.015	0.015	0.481	0.0100
K	0.01	239	1300	17.5	224	530	20
As	0.0001	0.031	0.083	0.009	0.007	0.019	0.0001
Sb	0.0001	0.002	0.006	0.0001	0.002	0.008	0.0001
Tℓ Cat.	mg/ℓ	49.9	195	6.2	49.2	101	23.2

EFFLUENT VOLUME

2.86×10^7 ℓ

1985

SOLID WASTE GENERATED AT TA-50

PLANT SLUDGE	1.38×10^5	Liters
DRUMS OF SLUDGE	551	Ret. Drums
DRUMS OF SLUDGE	113	Non-Ret Drums
CEMENT PASTE	7524	Liters
DRUMS OF CEMENT PASTE	36	Ret. Drums
MISC. DRUMS (GRIT)	0	Ret. Drums

PLANT SLUDGE ACTIVITY

Pu^{238}	2.98	Curies	Ave. Mo.	0.25	Curies
Pu^{239}	5.72	Curies	Ave. Mo.	0.48	Curies
Am^{241}	7.46	Curies	Ave. Mo.	0.62	Curies

CEMENT PASTE ACTIVITY

Pu^{238}	4.80	Curies	Ave. Mo.	0.40	Curies
Pu^{239}	29.2	Curies	Ave. Mo.	2.43	Curies
Am^{241}	26.0	Curies	Ave. Mo.	2.17	Curies

TA-50

TOTAL PLANT INFLUENT	28.3×10^6	Liters
TOTAL PLANT EFFLUENT	28.6×10^6	Liters

ROOM 60 SLUDGE/CEMENT PASTE CY 1985

Date	No. of Drums	Liters of Cement Paste	(Ci) Pu^{238}	(Ci) Pu^{239}	(Ci) Am^{241}	Liters of Raw Waste Treated
Jan.	-	-	-	-	-	19,633
Feb.	-	-	-	-	-	23,373
March	-	-	-	-	-	19,239
April	-	-	-	-	-	17,728.5
May	-	-	-	-	-	22,604.5
June	-	-	-	-	-	16,960
July	-	-	-	-	-	17,861
August	-	-	-	-	-	19,636.5
September	-	-	-	-	-	16,244.5
October	-	-	-	-	-	15,343.5
November	24	5016	4.2	21.9	20.0	16,933.5
December	12	2508	0.6	7.3	6.0	19,822
Total	36	7524	4.8	29.2	26.0	225,379

TA-53 CY 1985 TANK DISCHARGES TO LAGOONS (mCi)

MONTH	Liter Flow	^{57}Co	^{7}Be	^{134}Cs	^{54}Mn	^{60}Co	^{22}Na	^{3}H
Jan.	0	0	0	0	0	0	0	0
Feb.	1.25×10^4	0.42	0.11	0.13	0.55	0.06	1.02	11
Mar.	5.02×10^4	2.21	1.16	0.08	2.10	0.31	1.76	78
Apr.	7.59×10^4	3.57	0.99	0.30	3.42	0.11	0.76	389
May	4.42×10^4	2.69	0.84	0.19	3.00	0.40	0.60	3577
June	8.56×10^4	1.80	0.68	0.07	2.57	0.68	0.43	6764
July	1.11×10^5	2.77	6.21	0.78	0.78	0.44	5.87	9407
Aug.	3.41×10^5	24.24	215.05	3072.09	15.36	4.78	180.91	2.18×10^4
Sept.	2.26×10^5	0.88	4.78	223.42	25.50	1.26	338.52	1.03×10^4
Oct.	2.00×10^5	132.06	6002.58	84.04	32.01	3.80	40.02	9184
Nov.	2.59×10^5	114.08	311.12	33.70	33.70	2.59	6.22	1.37×10^4
Dec.	1.90×10^5	102.99	2860.79	18.31	32.42	4.20	22.89	1.13×10^4
Total	1.60×10^6	387.71	9471.63	3433.11	151.41	18.63	599.00	8.65×10^4
Average	1.33×10^5	32.31	789.30	286.09	12.62	1.55	49.92	7209

TA-53 CY 1985 Lagoons Discharge (mCi)

Month	Flow (L)	^{57}Co	^{7}Be	^{134}Cs	^{54}Mn	^{60}Co	^{22}Na	^{3}H
January	1.79×10^6	8.79	86.69	5.74	1.62	2.33	15.62	2301
February	1.62×10^6	5.34	0	8.90	9.55	0	7.44	1334
March	1.81×10^6	0	10.84	2.89	0	3.80	7.23	1061
April	1.54×10^6	5.70	15.40	0.92	7.39	1.31	2.16	664
May	9.69×10^5	0	6.79	0.13	0.16	0.04	0	29
June	7.63×10^5	0	0	1.91	0.76	0	2.90	298
July	5.53×10^5	0.22	0	0.22	1.00	1.16	1.99	336
August	4.72×10^5	0.61	4.73	35.93	0.40	1.99	3.31	648
Sept.*	0	3.9nCi/ℓ	21.2nCi/ℓ	201nCi/ℓ	4.4nCi/ℓ	0	18nCi/ℓ	919pCi/ℓ
Oct.*	0	1.0nCi/ℓ	7.0nCi/ℓ	29nCi/ℓ	0	0	51nCi/ℓ	2140pCi/ℓ
Nov.*	0	9.3nCi/ℓ	34nCi/ℓ	29nCi/ℓ	0	0	19nCi/ℓ	3800pCi/ℓ
Dec.*	0	9nCi/ℓ	450nCi/ℓ	41nCi/ℓ	8.0 nCi/ℓ	900.0 pCi/ℓ	20nCi/ℓ	4.5nCi/ℓ
Total	9.52×10^6	20.66	124.45	56.64	20.88	10.63	40.65	6671
Average	7.93×10^5	1.72	10.37	4.72	1.74	0.89	3.39	555.92

*No overflow, conc of nuclides in lagoon water

1985 ANNUAL SUMMARY OF OPERATIONS TA 21-257 INFLUENT

onth	Hrs of Operation	Flow	Ave Trmt Factor	Removal Factor (Gross α)	Am^{241}	Cs^{137}	Pu^{238}	Pu^{239}	Sr^{89}	Sr^{90}	Gross α	Gross β	U^{234}	^{3}H
	Hrs.	Liters $x10^3$			mCi	mCi	mCi	mCi	mCi	mCi	mCi	mCi	mCi	mCi
an.	13.45	$2.14x10^5$	356.2	99.30%	0.47	0.0064	0.64	0.21	0	0.03	2.14	0.21	1.28	-
eb.	14.24	$3.18x10^5$	340.9	99.99%	156.00	0.092	7.00	11.78	0.024	0.38	209.78	3.50	14.64	-
arch	11.80	$238x10^5$	297.1	99.98%	357.29	0.023	15.48	21.20	0.083	1.14	433.51	8.34	38.11	-
pril	15.72	$3.37x10^5$	353.0	99.96%	53.94	0.26	6.40	11.46	0.098	0.88	82.25	5.39	7.42	-
ay	9.95	$2.58x10^5$	495.6	99.17%	2.07	0.007	0.26	0.26	0.00	0.013	3.36	2.07	0.47	-
une	9.83	$2.48x10^5$	435.2	99.81%	47.04	0.040	6.68	10.65	0.030	0.20	69.08	4.46	4.70	-
uly	8.60	$2.96x10^5$	527.7		7.11	0.012	0.89	1.19	0.015	0.015	9.18	0.59	0.71	-
ug.	10.66	$3.23x10^5$	411.7		0.48	0.019	0.27	2.26	0.0013	0.0032	4.20	2.90	0.32	-
ept.	9.98	$2.42x10^5$	502.5		5.49	0.018	0.65	0.97	0.0016	0.029	6.78	0.97	0.45	-
ct.	10.34	$3.18x10^5$	525.7		0.57	0.0035	0.14	0.12	0	0.029	1.08	0.95	1.02	-
ov.	6.23	$2.09x10^5$	503.7		0.36	0.0027	0.046	0.19	0	0.0094	0.84	0	0.052	-
ec.	2.88	$1.31x10^5$	536.8		0.08	0.0015	0.01	0.0065	0	0	0.56	0	0.01	-
otal	113.7	$3.13x10^6$			630.90	0.49	38.47	60.30	0.25	2.73	822.76	29.38	69.18	-
nthly erage	9.5	$2.61x10^5$	459.04	99.70%	52.58	0.04	3.21	5.02	0.021	0.23	68.56	2.45	5.77	-

1985 ANNUAL SUMMARY OF OPERATIONS DP-257 EFFLUENT

MONTH	FLOW Liters x10^3	Am^{241} mCi	Cs^{137} mCi	Pu^{238} mCi	Pu^{239} mCi	Sr^{89} mCi	Sr^{90} mCi	Gross α mCi	Gross β mCi	U^{234} mCi	^3H mCi
Jan.	281.77	0.0065	0.0085	0.0014	0.0014	0.00085	0.037	0.015	0.033	0.013	249.93
Feb.	242.72	0.0019	0.022	0.0015	0.0010	0.0032	0.0019	0.019	0	0.006	237.87
March	212.12	0.034	0.0091	0.0070	0.016	0.00	0.0064	0.075	4.77	0.032	55.36
April	351.42	0.016	0.0077	0.0028	0.0028	0.0011	0.0039	0.034	0	0.015	34.44
May	297.60	0.012	0.0015	0.0018	0.0018	0.0009	0.0021	0.028	0.049	0.029	149.40
June	150.80	0.065	0.0030	0.0041	0.0062	0.00	0.0045	0.13	0.041	0.074	26.39
*											
TOTAL	1.54×10^6	0.14	0.052	0.019	0.029	0.0061	0.056	0.30	4.89	0.17	753.39
AVERAGE	2.56×10^5	0.023	0.009	0.003	0.005	0.001	0.0093	0.05	0.82	0.028	125.57

*From July through December effluent pumped to TA-50-2

CHEMICAL QUALITY OF DP-257 INFLUENT AND EFFLUENT

Calendar 1985

Determination	Limit Detec. (mg/ℓ)	DP-257 INFLUENT			DP-257 EFFLUENT		
		Avg.	High	Low	Avg.	High	Low
Alk(P)	3	521.0	4350.0	10.0	234.0	966.0	20.0
Alk(T)	3	38/0	4900.0	32.0	342.0	1230.0	60.0
NH_3-N	0.02	1.46	7.60	0.055	0.887	3.53	0.030
Cd	0.0001	0.167	2.78	0.0012	0.00317	0.0200	0.0006
Ca	1	53.20	815.0	0.670	7.50	49.0	.670
COD	3	104.0	221.0	51.0	55.30	84.80	9.00
Cl	1	30.4	86.0	6.90	22.4	70.0	7.00
Cr+6	0.004	0.0746	0.330	0.003	0.0255	0.110	0.010
CrTotal	0.004	0.936	14.60	0.015	0.044	0.145	0.010
Cond	µS/cm	2180.0	15400.0	415.0	1490.0	4210	476.0
Cu	0.002	2.10	13.0	0.070	0.0690	0.220	0.010
CN	0.004	-	-	-	-	-	-
F	0.01	14.70	72.50	1.87	6.77	26.5	1.62
Hard. Tℓ	2	60.8	931.0	0.690	8.21	50.7	0.767
Pb	0.0001	0.64	4.0	0.007	0.00399	0.0210	0.0001
Mg	1	7.66	116.0	0.020	0.712	4.30	0.0010
Hg	0.0001	0.0222	0.133	0.0001	0.000456	0.0011	0.0001
NO_3-N	0.01	1.46	7.60	0.055	0.887	3.53	0.030
pH	0.1	-	12.8	7.3	-	12.0	7.7
PO_4	0.01	4.99	25.0	0.730	0.643	2.22	0.070
Na	0.01	365.0	2210.0	70.0	250.0	692.0	100.0
Solids(T)	5	969.0	5620.0	190.0	815.0	1810.0	368.0
SO_4	0.6	43.30	137.0	7.80	190.0	320.0	7.30
Zn	0.001	3.28	19.0	0.17	0.0369	0.20	0.001
K	0.01	19.6	71.0	2.9	9.5	36.0	2.3
Tℓ Cat.	mg/ℓ	17.2	102	3.3	11.9	31.7	4.8

EFFLUENT VOLUME

1.54×10^6 ℓ

1985
TA-21-257 VACUUM FILTER OPERATIONS

onth	No. of Drums	Total Volume(l)	(Ci) Pu^{238}	(Ci) Pu^{239}	(Ci) Am^{241}	(Ci) U^{235}
anuary	14	2926	0.0027	0.0037	0.030	0.0005
ebruary	NO OPERATION					
arch	9	1890	0.0017	0.0024	0.0191	0.0004
pril	18	3780	0.0035	0.0048	0.038	0.0007
ay	45	9405	0.005	0.007	0.059	0.0002
une	9	1881	0.003	0.004	0.036	0.0001
uly	9	1881	0.002	0.002	0.02	0.00002
ugust	NO OPERATION					
eptember	9	1881	0.001	0.003	0.016	0.0002
O ber	9	1881	0.002	0.003	0.018	0.00007
November	9	1890	0.0019	0.003	0.0217	6.01×10^{-5}
December	NO OPERATION					
Totals	131	27,415	0.0228	0.03290	0.25780	0.00225

1985
REMOVAL FACTOR

$$\frac{\text{Inf } \alpha - \text{Eff } \alpha}{\text{Inf } \alpha} \times 100\%$$

onth	TA-50	TA-21-257
anuary	99.66%	99.30%
ebruary	99.72	99.99
arch	99.96	99.98
pril	99.76	99.96
lay	99.56	99.17
June	99.62	99.81
July	99.76	
st	99.35	
September	99.22	
October	99.55	
November	99.95	
December	99.56	
Average	99.63%	99.70%

TOTAL CHEMICAL OUTPUT AND INPUT AT TA-50

ELEMENT	OUTPUT (KG)	INPUT (KG)	DECON
ALKALINITY-MO	14278.00	10658.83	0.75
ALKALINITY-P	2614.95	7566.25	2.89
CADMIUM	0.03	0.37	12.54
CALCIUM	1326.60	585.53	0.44
CHLORIDE	2915.00	2853.42	0.98
CHROMIUM +6	0.90	2.12	2.34
CHROMIUM TOTAL	1.61	7.03	4.36
COD	2487.50	5865.83	2.36
COPPER	42.14	305.62	7.25
CYANIDE	8.96	13.12	1.46
FLUORIDE	800.75	984.35	1.23
LEAD	0.50	12.77	25.63
MAGNESIUM	43.42	184.05	4.24
MERCURY	0.03	1.24	38.94
NH3-N	456.75	539.78	1.18
N03-N	11122.00	13409.75	1.21
PHOSPHATE	32.40	172.96	5.34
POTASSIUM	6195.00	6639.42	1.07
SO4	5726.25	4255.33	0.74
SODIUM	25612.50	24952.50	0.97
TCATIONS	1407.47	1411.45	1.00
TOTALHARDNESS	1373.65	769.83	0.56
TOTALSOLIDS	97885.00	110875.00	1.13
TURBIDITY	0.00	4137.67	
ZINC	3.69	30.41	8.23

December 1985

LOS ALAMOS NATIONAL LABORATORY
QUALITY OF DRINKING WATER
(Average concentrations in mg/L)

Station	Ag	As	Ba	Cd	Cr	F	Hg	NO_3	Pb	Se
Los Alamos Field (5 wells)	<0.001	0.016	0.05	<0.0002	0.01	1.5	<0.0001	1.5	<0.005	<0.003
Guaje Field (7 wells)	<0.001	<0.018	0.03	<0.0002	0.006	0.5	<0.0001	1.5	<0.002	<0.003
Pajarito Field (4 wells)	<0.001	<0.003	0.04	<0.0002	0.005	0.23	<0.0001	1.5	<0.002	<0.003
Water Canyon (gallery)	<0.001	<0.003	0.01	<0.0002	0.001	0.1	<0.0001	1.1	<0.002	<0.003
Distribution (7 stations)	<0.001	<0.001	0.04	0.0002	0.010	0.4	<0.0001	1.6	<0.002	<0.003
No. of analyses	24	24	24	23	24	24	24	24	24	24
Minimum	<0.001	<0.002	0.015	0.0002	0.001	0.2	<0.0001	0.9	<0.002	<0.003
Maximum	<0.001	<0.06	0.08	---	0.015	1.1	<0.0001	2.1	0.01	---
Average	<0.001	<0.01	0.04	<0.0002	0.01	0.5	<0.0001	1.55	0.0025	<0.003
USEPA and NMEID Drinking Water Standards	0.05	0.05	1.0	0.01	0.05	2.0	0.002	45	0.05	0.01