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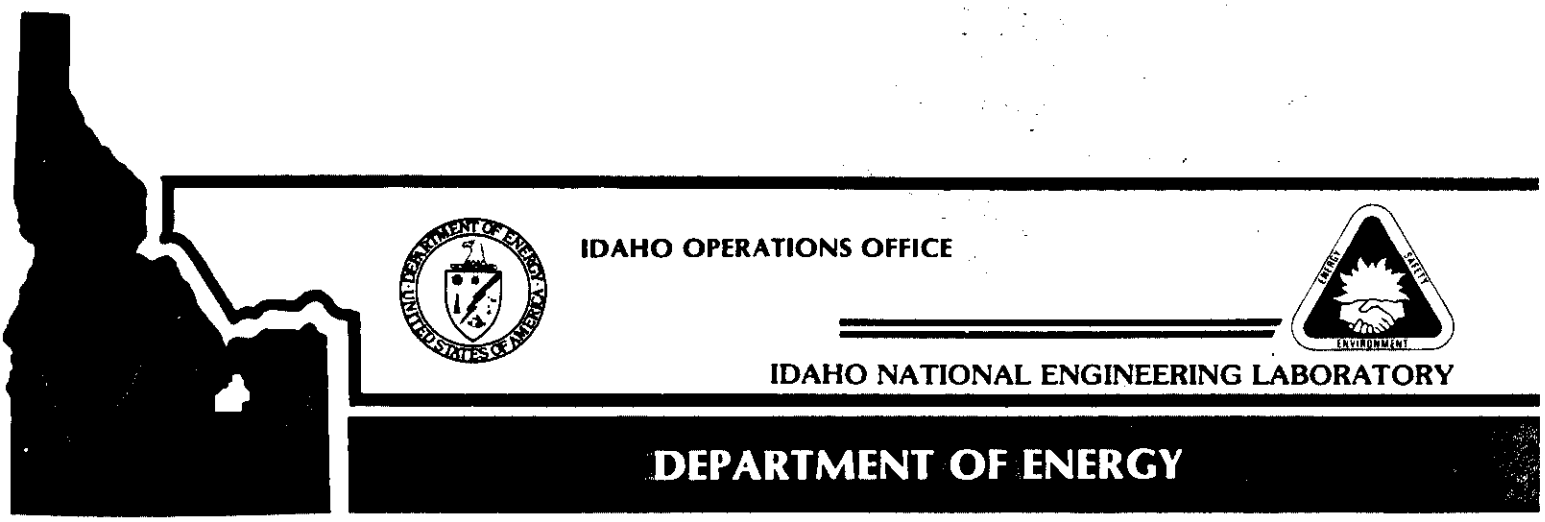
INDUSTRIAL WASTE MANAGEMENT INFORMATION FOR 1983 AND RECORD-TO-DATE



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INDUSTRIAL WASTE MANAGEMENT INFORMATION

FOR 1983 AND RECORD-TO-DATE

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ACRONYMS & ABBREVIATIONS

ANL	Argonne National Laboratory-West
ARA	Auxiliary Reactor Area
CFA	Central Facilities Area
CPP	Chemical Processing Plant
EBR	Experimental Breeder Reactor I
HMDA	Hazardous Material Disposal Area
INEL	Idaho National Engineering Laboratory
IWMIS	Industrial Waste Management Information System
kg	Kilograms
L	Litres
LOF	Loss-of-Fluid Test Facility
LOFT	Loss-of-Fluid Test Facility
M^3	Cubic Metres
MHD	Magnetohydrodynamics Component Development and Integration Facility (Butte, Montana)
NO_x	Nitric Oxides
NRF	Naval Reactors Facility
PBF	Power Burst Facility
SO_2	Sulfur Dioxide
TAN	Test Area North
TDS	Total Dissolved Solids
TRA	Test Reactor Area
WER	Waste Experimental Reduction Facility
WMC	Waste Management Complex
WRF (WRRTF)	Water Reactor Research Test Facility

CONVERSION FACTORS

To Convert	Into	Multiply by
cubic metres	cubic feet	35.31
litres	gallons (U.S. liquid)	0.2642
kilograms	pounds	2.2046

ABSTRACT

The industrial waste data associated with activities at the Idaho National Engineering Laboratory (INEL) for 1983 and record-to-date are summarized. Summaries of the quantities of liquid industrial waste, the volumes of solid waste, the fuel oil and water used, and the quantities of SO_2 and particulates released are included. The waste data are from the INEL Industrial Waste Management Information System (IWMIS).

SUMMARY

A computerized Industrial Waste Management Information System (IWMIS) has been used at the Idaho National Engineering Laboratory (INEL) since 1971. The system provides for timely reports on the amount of all types of industrial waste that has been stored and disposed at the INEL, fuel oil usage, and water usage and disposal. The system serves as the official record for all types of industrial waste stored or disposed at the INEL. The quantities of industrial waste are reported for the following categories: disposal of airborne and liquid effluents, fuel oil consumption, and water usage.

A total of 32 945 m^3 of solid industrial waste was disposed in sanitary landfills at the INEL during 1983.

During 1983, waste oils and solvents totalled 40 011 litres. This compares with 52 307 litres in 1982 and 31 183 litres in 1981. These liquids are periodically recycled.

A total of 3 392 406 kg of liquid and airborne industrial waste was discharged in 1983. This includes 1 708 999 kg of chemicals, 679 547 kg of total dissolved solids, and 432 280 kg of total hardness which were discharged as liquid wastes to the lithosphere at the INEL. This waste represents an increase from the total quantity of 3 124 954 kg in 1982 and a decrease from the total quantity of 4 085 451 kg in 1981.

During 1983, a total of 17 835 664 litres of fuel oil was used at the INEL, which produced 368 880 kg of SO_2 and 14 720 kg of particulates. During 1982, 17 976 112 litres of fuel oil were used, producing 352 286 kg of SO_2 and 17 009 kg of particulates.

A total of 7 929 225 000 litres of water was used at the INEL during 1983, compared to 7 513 154 000 litres in 1982, and 7 828 795 000 litres in 1981. However, the majority of this water is returned to the lithosphere through injection wells and seepage ponds. The remaining water is lost to the atmosphere through cooling towers and other evaporatory processes.

The following reports are included in this document:

Report 1 - INEL Monthly Water Usage Summary

This report summarizes the quantity of water pumped at each facility and the quantity of water disposed to the atmosphere, ground surfaces, and subsurfaces. The percent accountability is also shown.

Report 2 - INEL Year-to-Date Water Usage Summary

This report provides the quantity of water pumped and disposed and the percent accountability at each facility for the year-to-date.

Report 3 - INEL Industrial Waste Summary

This report summarizes the quantity and type of industrial waste for each area at the INEL. The waste is shown in Types 1 through 9, which correspond generally with the standard classifications for sanitary waste.

Report 4 - INEL Airborne & Liquid Disposed Substances Summary

This report provides the monthly total weight of all substances disposed to the environment. It also provides the total amount of waste disposed for the year-to-date.

Report 5 - INEL Monthly Fuel Oil Summary

This report summarizes information on the types and quantities of fuel oil used during the month for each facility at the INEL. It also provides the quantities of SO_2, NO_x, and particulates released to the atmosphere.

Report 6 - INEL Year-to-Date Fuel Oil Summary

This report provides similar information to Report 5 for the year-to-date.

Series XX4, (Facility) Airborne Disposed Substances Summary

Series XX5, (Facility) Liquid Disposed Substances Summary

Series XX6, (Facility) Industrial Waste Summary

A description for each type of industrial waste handled at the INEL follows:

Waste Type	Description
1	Trash
2	Cafeteria Garbage
3	Wood and Scrap Lumber
4	Masonry and Concrete
5	Scrap Metal
6	Oil
7	Solvents
8	Chemicals
9	Other (must be specified)

Series XX7, (Facility) Water Usage & Disposal Summary

Series XX8, (Facility) Fuel Oil Usage & Stack Effluents Summary

[illegible] INDUSTRIAL WASTE SUMMARY

RECORD-TO-DATE

WASTE TYPE		1971-1980	1981	1982	1983
[illegible] WASTE	(CU.METERS)	245,098	30,781	29,691	32,045
[illegible]-SOLVENTS	(LITERS)	410,775	31,183	52,307	40,011
LIQUID WASTE	(KILOGRAMS)	42,894,406	3,820,048	2,863,483	2,820,811
AIRBORNE WASTE	(KILOGRAMS)*	6,737,583	569,399	630,766	855,195
FUEL OIL:					
QUANTITY	(LITERS)	250,153,168	15,528,053	17,976,112	17,835,664
SO2	(KILOGRAMS)	4,255,055	290,868	352,286	368,980
PARTICULATES	(KILOGRAMS)	294,589	13,128	17,009	14,770
WATER-USED	(1,000 LITERS)	92,100,362	7,828,795	7,513,154	7,929,225

* NOTE: INCLUDES SO2 AND PARTICULATES FROM FUEL OIL TOTALS

DETAIL MAY NOT ADD UP TO TOTALS BECAUSE OF ROUNDING

INEL SOLID AND LIQUID INDUSTRIAL WASTE SUMMARY
RECORD-TO-DATE

YEAR	AML	ARA	CFA	CPP	LOF	MHO	NRF	PBF	TAN	TRA	WER	WMC	WPF	TOTAL
RECORD-TO-DATE (71-81)														
SANITARY WASTE (CU. METERS)	32812	1593	52574	44759	617	942	73957	5907	29472	32322		925		275879
OILS & SOLVENTS (LITERS)	18571		102203				314939		568	5678				441958
CHEMICALS														
LIQUIDS (LITERS)	1404	106		45			55778	416	17052	6281		145		81228
SOLIDS (KILOGRAMS)	855		1355				9957		0	17585				29753
OTHERS														
LIQUIDS (LITERS)	1727	396	5985	1099			2653	4997		1334				18192
SOLIDS (KILOGRAMS)	28					9072			408					9508
1982														
SANITARY WASTE (CU. METERS)	3429	446	3535	7897	18	881	6710	775	2664	3068	48	212	8	29691
OILS & SOLVENTS (LITERS)	4275		1529				46502							52307
CHEMICALS														
LIQUIDS (LITERS)							16092			3687				19780
SOLIDS (KILOGRAMS)			73				1978			2927				4978
OTHERS														
LIQUIDS (LITERS)							9047							9047
1983														
SANITARY WASTE (CU. METERS)	3256	202	5179	8059		881	7739	402	2678	4385	45	119		32945
OILS & SOLVENTS (LITERS)	2536						37474							40011
CHEMICALS														
LIQUIDS (LITERS)							19339							19339
SOLIDS (KILOGRAMS)			184				3797							3981
OTHERS														
SOLIDS (KILOGRAMS)	286													286

DETAIL MAY NOT ADD UP TO TOTALS BECAUSE OF ROUNDING
0 IN A COLUMN INDICATES A TOTAL OF < 1

AIRBORNE AND LIQUID
INDUSTRIAL WASTE SUBSTANCES SUMMARY IN KILOGRAMS
RECORD-TO-DATE

SUBSTANCE IDENTIFICATION	1971-1980	1981	1982	1983	TOTAL
ACETIC ACID	12				12
AMIDES	895	102	70	66	1,132
AMMONIA	36	0			36
ARSENIC	0	1	0	0	1
AUTO CLEANERS	20,894	1,742	1,815	1,283	25,734
BARIUM	133	238	213	192	776
BERYLLIUM				0	0
BETZ A-9	68				68
BETZ DE 419	2,675				2,675
BETZ DE 452	113				113
BETZ DE 481	7,878				7,878
BETZ DIANODIC 194	828				828
BETZ FERROSPERSEHP				84	84
BETZ J-12	18				18
BETZ NEUTRMEEN	1,669				1,669
BETZ 109	35				35
BETZ 194	301				301
BETZ 406	129				129
BETZ 429	5,171				5,171
BETZ 45		9	37	92	138
BETZ 65	544				544
BIOCIDE D-2	9,640				9,640
BLEACH	898				898
BORON	1,851	5,280	1,163	1,370	9,663
CADMIUM	2	0	0	0	2
CALCIUM ION	7,702	2,496	1,658	2,646	14,502
CARBONTHIOCYANATES	140	20	14	13	188
CHLORIDE ION	3,971,016	459,569	438,540	409,707	5,278,831
CHLOROCARBONS	2				2
CHLOROHYDROCARBONS	472	0			472
CHLOROSULFONES	691	82	56	52	881
CHROMATE ION	216	6	20	85	327
CHROMIUM	37	30	32	21	120
CITRIC ACID	91				91
CLORCHYDROCARBONS	0				0
CR+6	794	1,021			1,814
DIANODIC 194	15,531				15,531
DIMETHYLAMINE	1,014	218	186	206	1,623
DIPHOSPHONATE	11,970	1,279			13,249
DISPERSANT 403	13,026				13,026
FLOURIDE ION	2				2
FLUORIDE ION		3,601	1,389	2,567	7,557
FORMIC ACID	5				5
HEDP	123	726	983	933	2,765
HEXAVALENT CR	2,631				2,631
HPA	4,398	12	3	1	4,415

DETAILS MAY NOT ADD UP TO TOTALS BECAUSE OF ROUNDING
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AIRBORNE AND LIQUID
INDUSTRIAL WASTE SUBSTANCES SUMMARY IN KILOGRAMS
RECORD-TO-DATE

SUBSTANCE IDENTIFICATION	1971-1980	1981	1982	1983	TOTAL
HYDRAZINE	12				12
HYDROCARBON-AMINES	46	8	11	6	71
HYDROCARBONS	1,402	204	139	131	1,877
HYDROXYCARBON	66				66
HYDROXYCARBONS	16,142	1,668	94	89	17,992
HYPOCHLORITE	16,053				16,053
HYPOCHLORITE ION	21,403	7,242	5,750	6,829	41,225
KP40 COOLANT CNTRL	73				73
KWIK KLEEN	2,099				2,099
LAUNDRY PRODUCTS	20,972	5,942	5,682	4,806	37,402
LEAD	33	73	21	116	243
M-60 ALGAECIDE	4				4
M-80T ALGAECIDE	4				4
MERCURY	3	48	0	13	64
METHPISTHIOCYANATE	68				68
MORPHOLINE	840	149	89	178	1,255
N-HYDROCARBON	4,462	744	436	413	6,056
NALCO 7312	178				178
NALCO 7323	185				185
NALCOOL 7351	840				840
NAPTHA	39				39
NITRATE ION	607,442	147,014	123,596	210,233	1,088,284
NITRIC OXIDE	175,568	74,605	18,411	38,551	307,135
NITRITE ION	3				3
NITROGEN DIOXIDE	2,012,196	190,747	243,045	533,029	2,979,015
OROCOL 194	68				68
OROCOL 734	70,313				70,313
OXYCARBONS	0				0
PHOSPHATE	2,631	2,632	2,335	2,221	9,818
PHOSPHATE ION	113,565	4,168	4,470	34,242	156,449
PHOSPHONATE	2,190	704	477	886	4,258
PHOSPHONATES	23				23
PHOTO LAB CHEMICAL	19,282	1,960	1,960	1,960	25,161
POLYACRYLATE	2,106	10,881	1,811	2,899	17,697
POLYHYDROXYCARBON	45	0	2	1	48
POLYMETHACRYLATE	1,460	469	259	575	2,762
POLYNODIC 606	62,210				62,210
POLYNODIC 633	2,268				2,268
POLYPHOSPHATE	5,110	1,641	1,112	2,064	9,927
POTASSIUM ION	12,294	13,752	354	336	26,736
PYRIDINE	3				3
SELENIUM	0	0	0	0	0
SILICACARBONS	20				20
SILICATE ION	59				59
SILVER	12	20	19	21	72
SKASOL	617				617

DETAILS MAY NOT ADD UP TO TOTALS BECAUSE OF ROUNDING
0 IN A COLUMN INDICATES A TOTAL OF < 1

AIRBORNE AND LIQUID
INDUSTRIAL WASTE SUBSTANCES SUMMARY IN KILOGRAMS
RECORD-TO-DATE

SUBSTANCE IDENTIFICATION	1971-1980	1981	1982	1983	TOTAL
SKAZOL	3,164				3,164
SLIMICIDE A-9	9,935				9,935
SLIMICIDE C-35	3,434				3,434
SLIMICIDE D-2	2,034				2,034
SLIMICIDE J-12	7,523				7,523
SLIMICIDE J-9	15,920				15,920
SLIMICIDE 403	2,253				2,253
SOAP	42,589	1,556	957	855	45,957
SODIUM ION	3,206,793	324,490	285,252	293,032	4,109,564
SODIUM PHOSPHATE	10			15	25
SPRA-SAF	862				862
SULFATE ION	11,193,140	755,156	824,455	726,716	13,499,466
SULFITE ION	7,914	208	185	218	8,525
SULFONATE	1,460	469	318	590	2,836
SULFONATES	1,416				1,416
SULFUR DIOXIDE	8,259				8,259
SULFURIC ACID	1				1
TDS	19,339,440	1,720,131	774,754	679,547	22,513,904
THIOCARBONS	17				17
THIOHYDROCARBONS	48	0			48
THIOUREA	1				1
TOLYTRIAZOLE		182	246	233	661
TOTAL HARDNESS	3,973,190	342,102	382,529	432,280	5,130,099
TRIVALENT CR	1,955				1,955
ZINC ION	2,386				2,386
	45,081,696	4,085,440	3,124,942	3,392,388	55,684,464

DETAILS MAY NOT ADD UP TO TOTALS BECAUSE OF ROUNDING
0 IN A COLUMN INDICATES A TOTAL OF < 1

INFL FUEL OIL SUMMARY

RECORD-TO-DATE

AREA	1971-1981 FUEL OIL (LITERS)	1971-1981 SO2 (KG)	1971-1981 PART. (KG)	1971-1981 DIESEL (LITERS)	1982 FUEL OIL (LITERS)	1982 SO2 (KG)	1982 PART. (KG)	1982 DIESEL (LITERS)	1983 FUEL OIL (LITERS)	1983 SO2 (KG)	1983 PART. (KG)	1983 DIESEL (LITERS)
ANL	21,618,383	206,396	20,097		1,732,483	6,745	2,282		1,492,438	5,811	1,947	
ARA	1,450,591	10,474	523	10,425	91,926	551		4,417	72,413	515		15,058
CEA	22,138,168	223,483	22,262	99,069	723,045	4,279		16,194	527,762	3,057		9,893
CRP	71,932,209	759,860	5,504		6,202,971	158,767			6,792,796	173,863		
LDF	335,351	2,089		27,254	158,642	1,040		20,441	288,061	2,804		158,226
MHD	490,219	5,032			705,220	4,244			518,283	3,119		
NEF	56,024,480	1,531,741	84,755		3,193,359	95,393	6,849		3,001,062	96,399	6,437	
PRF	1,354,121	8,254	231	267,560	144,580	1,121		53,305	125,502	1,178		82,474
TAN	31,890,107	690,012	36,306	155,705	1,495,621	25,605			1,591,927	35,693		
TRA	38,580,845	1,103,448	137,998	18,436,293*	1,584,035	53,508	7,877	1,657,280*	1,269,953	44,932	6,315	1,623,402*
WMC	295,900	1,930		18,877					41,092	234		193
WRF	548,850	3,190		11,753	182,633	1,034			224,987	1,274		
	246,659,224	4,545,905	307,716	19,026,940	16,224,515	352,286	17,009	1,751,636	15,946,466	368,880	14,720	1,889,251

* TRA EMERGENCY GENERATOR

DETAIL MAY NOT ADD UP TO TOTALS BECAUSE OF ROUNDING

INEL WATER USAGE SUMMARY IN THOUSAND LITERS

RECORD-TO-DATE

AREA	1971-1980	1981	1982	1983	TOTAL
ANL	4,810,965	546,005	449,117	473,774	6,279,861
ARA	1,227,440	137,448	115,452	111,636	1,591,976
CFA	4,202,345	383,512	374,145	385,452	5,345,458
CPP	16,030,081	2,073,624	2,098,493	2,094,822	22,297,020
LOF	696,021	520,835	511,896	481,431	2,210,183
MHD	4,845	18,711	89,586	17,208	130,354
NRF	18,790,457	1,603,398	1,233,440	1,617,430	23,244,725
PBF	449,465	31,486	82,563	83,428	646,946
TAN	3,974,155	69,062	61,841	71,267	4,176,329
TRA	41,521,914	2,296,455	2,396,030	2,514,879	48,729,282
WMC	267,920	33,457	34,262	9,735	345,374
WRF	124,797	114,812	66,341	67,960	373,910
	92,100,425	7,828,805	7,513,166	7,929,231	115,371,627

DETAIL MAY NOT ADD UP TO TOTALS BECAUSE OF ROUNDING

AIRBORNE AND LIQUID
INDUSTRIAL WASTE SUBSTANCES SUMMARY IN KILOGRAMS
FOR JANUARY THROUGH DECEMBER, 1983

SUBSTANCE IDENTIFICATION	ANI	CEA	CPP	LOE	NBE	PBE	TAN	TRA	WBE	TOTAL
AMIDES	66									66
ARSENIC			0							0
AUTO CLEANERS		1,283								1,283
BARIUM			192							192
BERYLLIUM								0		0
BETZ CERROSPERSEHP								84		84
BETZ 45						92				92
BORON				1,370						1,370
CADMIUM			0							0
CALCIUM ION		366			7,280					7,646
CARBONTHIOCYANATES	13									13
CHLORIDE ION	144	7,584	353,663	2,642	37,115	1	6,619	619	1,321	409,707
CHLOROSULFONES	52									52
CHROMATE ION						85				85
CHROMIUM			21							21
DIMETHYLAMINE	206									206
FLUORIDE ION			2,567							2,567
HEDP	210							724		933
HPA						1				1
HYDROCARBON-AMINES	6									6
HYDROCARBONS	131									131
HYDROXYCARBONS	6					7		75		89
HYPOCHLORITE ION		421			5,855			556		6,829
LAUNDRY PRODUCTS		4,806								4,806
LEAD			116							116
MERCURY			13					0		13
MORPHOLINE	178									178
N-HYDROCARBON	30					35		349		413
NITRATE ION			210,233							210,233
NITRIC OXIDE			38,551							38,551
NITROGEN DIOXIDE			533,029							533,029
PHOSPHATE	477	98						1,646		2,221
PHOSPHATE ION					999		98	33,114	25	34,242
PHOSPHONATE					886					886
PHOTO LAB CHEMICAL	1,960									1,960
POLYACRYLATE	368							2,531		2,899
POLYHYDROXYCARBON						1				1
POLYMETHACRYLATE					575					575
POLYPHOSPHATE					2,064					2,064
POTASSIUM ION	75							260		336
SELENIUM			0							0
SILVER			21							21
SOAP		855								855

DETAIL MAY NOT ADD UP TO TOTALS BECAUSE OF ROUNDING
0 IN A COLUMN INDICATES A TOTAL OF < 1

AIRBORNE AND LIQUID
INDUSTRIAL WASTE SUBSTANCES SUMMARY IN KILOGRAMS
FOR JANUARY THROUGH DECEMBER, 1983

SUBSTANCE IDENTIFICATION	ANL	CFA	CRP	LCF	NBF	PRF	TAN	TPA	WBF	TOTAL
SODIUM ION	3,521	4,726	233,[illegible]	3,440	22,795	651	4,475	19,032	1,117	292,032
SODIUM PHOSPHATE								15		15
SULFATE ION	55,489		93,5[illegible]	3,088	52,010	931	168	480,357	750	726,717
SULFITE ION				22			128	10	57	218
SULFONATE					590					590
TDS								679,547		679,547
TOLYTRIAZOLE	50							183		233
TOTAL HARDNESS								432,280		432,280
TOTAL	62,984	70,138	1,465,610	10,568	165,158	1,804	11,488	1,651,375	3,275	3,392,791

DETAIL MAY NOT ADD UP TO TOTALS BECAUSE OF ROUNDING
0 IN A COLUMN INDICATES A TOTAL OF < 1

INEL INDUSTRIAL WASTE SUMMARY IN CUBIC METERS *
FOR JANUARY THROUGH DECEMBER, 1983

TYPES	ANL	ARA	CFA	TRP	LOF	MWD	NRF	PBF	TAN	TRA	WET	WMC	WRF	TOTAL
1. TRASH	2,539	190	2,119	4,844		881	4,492	365	2,204	1,907	22	101		19,649
2. CAFETERIA GARBAGE	434		701	477			1,148		362	123				3,446
3. WOOD & SCRAP LUMBER	34	2	310	1,326			772	13	22	2,188	5	10		4,631
4. MASONRY & CONCRETE	47	1	159	995			91	15	57	44	8	0		1,418
5. SCRAP METAL	29	6	90	55			671		32		5			888
6. OIL (LITERS)	2,536						37,474							40,011
8. CHEMICALS														
LIQUID (LITERS)							19,339							19,339
SOLID (KILOGRAMS)			184				3,797							3,981
9. OTHERS														
SOLIDS (KILOGRAMS)	286													286
TOTALS														
SANITARY TYPES 1, 2, 3, 4, 5, &9 (CUBIC METERS)	3,256	202	5,179	8,059		881	7,739	402	2,678	4,285	45	110		32,945
OILS &SOLVENTS TYPES 6 & 7 (LITERS)	2,536						37,474							40,011
CHEMICALS														
LIQUID (LITERS)							19,339							19,339
SOLID (KILOGRAMS)			184				3,797							3,981
OTHERS														
SOLIDS (KILOGRAMS)	286													286

* EXCEPT AS NOTED

DETAIL MAY NOT ADD UP TO TOTALS BECAUSE OF ROUNDING
0 IN A COLUMN INDICATES A TOTAL OF < 1

IDAHO OPERATIONS OFFICE
UNITED STATES DEPARTMENT OF ENERGY
INEL INDUSTRIAL WASTE MANAGEMENT INFORMATION SYSTEM

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INEL MONTHLY WATER USAGE SUMMARY
DECEMBER 1983

PPT 1-I

(ALL VOLUMES = NEAREST THOUSAND LITERS)

	AREA OF ORIGIN	MONTHLY VOLUME PUMPED	MONTHLY VOLUME DISPOSED					ACCOUNTA-BILITY (%)
			AIR	SURFACE	SUBSURFACE	SEWAGE	TOTAL	
	ANL	42,214	18,953	20,058		1,077 *	40,088	95.0
	ARA	9,024	*	8,468 *	*	556 *	9,024	100.0
	CFA	22,305	*	78 *	7,696	14,528	22,302	100.0
	CPP	162,389		*	159,740	2,536	162,276	99.9
	LOF	13,775		12,219		87	12,306	89.3
	MHD	2,924	19		2,905	0	2,924	100.0
	NRF	115,266	75,025 *	26,467 *		5,443	106,935	92.8
	PBF	1,577		397 *	882 *	228 *	1,508	95.6
	TAN	5,293	*	4,293 *	*	999 *	5,291	100.0
	TRA	217,647	115,792	98,153 *	2,012	1,690	217,647	100.0
	WMC	271	*	15 *	168 *	83	270	99.9
	WRF	8,184			8,119	61	8,180	100.0
GRAND TOTALS:		600,868	209,788	170,151	181,522	27,288	588,750	98.0

NOTE: "*" IN COLUMNS INDICATE A PORTION OF VOLUME IS ESTIMATED

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UNITED STATES DEPARTMENT OF ENERGY
INEL INDUSTRIAL WASTE MANAGEMENT INFORMATION SYSTEM

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INEL YEAR-TO-DATE WATER USAGE SUMMARY
FOR JANUARY THROUGH DECEMBER 1983

RPT 2-1

(ALL VOLUMES = NEAREST THOUSAND LITERS.

AREA OF ORIGIN	YEARLY VOLUME DUMPED	YEARLY VOLUME DISPOSED: AIR	SURFACE	SUBSURFACE	SEWAGE	TOTAL	ACCOUNTABILITY (%)
[illegible]	473,[illegible]74	266,[illegible]08*	149,961		17,338 *	427,383	90.2
AFA	111,636	*	101,175 *		* 6,677 *	107,851	96.6
CFA	385,672	*	129,08[illegible] *	12,373	76,808	218,264	56.6
CPP	1,074,8[illegible]		*	2,057,763	35,650	2,093,413	99.[illegible]
LCF	491,431		407,513		1,961	409,474	85.1
MHS	17,208	363		16,842		17,205	100.0
NRF	1,61[illegible],030	1,[illegible]22,621 *	401,352 *		75,[illegible]86	1,[illegible]09,459	93.3
PBF	93,428	4,915	40,002 *	32,229 *	2,738 *	79,895	85.8
TAN	71,267	*	49,802 *	*	21,119 *	70,921	99.5
TRA	2,514,879	1,880,522	885,819 *	10,586	23,272	2,309,199	91.8
WMC	9,735	*	886 *	7,848 *	999	9,734	100.0
WRF	67,969			66,977	975	67,952	100.0
GRAND TOTALS:	7,529,225	2,686,505	2,166,794	2,204,626	263,023	7,320,949	92.3

NOTE: "*" IN COLUMNS INDICATE A PORTION OF VOLUME IS ESTIMATED

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INEL INDUSTRIAL WASTE MANAGEMENT INFORMATION SYSTEM

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INEL INDUSTRIAL WASTE SUMMARY
DECEMBER AND YEAR-TO-DATE 1983

RPT 3-I

AREA OF ORIGIN / TYPE OF WASTE		MONTHLY VOLUME OR WEIGHT	UNITS	YEAR TO DATE VOLUME OR WEIGHT	UNITS
ANL					
DISPOSED WASTE					
1 - TRASH	SOLID	145.3	CU. METERS	2,539.4	CU. METERS
2 - CAFETERIA GARBAGE	SOLID	24.5	CU. METERS	434.3	CU. METERS
3 - WOOD AND SCRAP LUMBER	SOLID			34.4	CU. METERS
4 - MASONRY AND CONCRETE	SOLID			46.6	CU. METERS
5 - SCRAP METAL	SOLID			28.3	CU. METERS
6 - OIL	LIQUID			2,536.2	LITERS
9 - OTHER	SOLID			186.2	KILOGRAMS
STORED WASTE					
9 - OTHER	SOLID			272.2	KILOGRAMS
ARA					
DISPOSED WASTE					
1 - TRASH	SOLID			190.4	CU. METERS
3 - WOOD AND SCRAP LUMBER	SOLID			1.5	CU. METERS
4 - MASONRY AND CONCRETE	SOLID			0.8	CU. METERS
5 - SCRAP METAL	SOLID	3.1	CU. METERS	6.1	U. METERS
9 - OTHER	SOLID			3.4	CU. METERS
CFA					
DISPOSED WASTE					
1 - TRASH	SOLID	208.7	CU. METERS	2,118.8	CU. METERS
2 - CAFETERIA GARBAGE	SOLID	56.6	CU. METERS	700.8	CU. METERS
3 - WOOD AND SCRAP LUMBER	SOLID	2.3	CU. METERS	309.7	CU. METERS
4 - MASONRY AND CONCRETE	SOLID	1.5	CU. METERS	159.4	CU. METERS
5 - SCRAP METAL	SOLID			90.2	CU. METERS
8 - CHEMICALS	SOLID			184.2	KILOGRAMS
9 - OTHER	SOLID	8.4	CU. METERS	1,800.0	CU. METERS
CPP					
DISPOSED WASTE					
1 - TRASH	SOLID	202.6	CU. METERS	4,844.4	CU. METERS
2 - CAFETERIA GARBAGE	SOLID	45.9	CU. METERS	676.7	CU. METERS
3 - WOOD AND SCRAP LUMBER	SOLID	28.3	CU. METERS	1,326.5	CU. METERS
4 - MASONRY AND CONCRETE	SOLID	20.3	CU. METERS	994.6	CU. METERS
5 - SCRAP METAL	SOLID			54.7	CU. METERS
9 - OTHER	SOLID	8.4	CU. METERS	161.7	CU. METERS
MHD					
DISPOSED WASTE					
1 - TRASH	SOLID	73.4	CU. METERS	880.9	CU. METERS

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INEL INDUSTRIAL WASTE SUMMARY
DECEMBER AND YEAR-TO-DATE 1983

RPT 3-1

AREA OF ORIGIN / TYPE OF WASTE		MONTHLY VOLUME OR WEIGHT	UNITS	YEAR TO DATE VOLUME OR WEIGHT	UNITS
NRF					
DISPOSED WASTE					
1 - TRASH	SOLID	395.3	CU. METERS	4,491.6	CU. METERS
2 - CAFETERIA GARBAGE	SOLID	107.8	CU. METERS	1,149.3	CU. METERS
3 - WOOD AND SCRAP LUMBER	SOLID	106.3	CU. METERS	771.5	CU. METERS
4 - MASONRY AND CONCRETE	SOLID			90.6	CU. METERS
5 - SCRAP METAL	SOLID	30.6	CU. METERS	269.2	CU. METERS
6 - OIL	LIQUID			5,829.4	LITERS
8 - CHEMICALS	LIQUID			5,677.9	LITERS
8 - CHEMICALS	SOLID			281.3	KILOGRAMS
9 - OTHER	SOLID	2.3	CU. METERS	515.4	CU. METERS
STORED WASTE					
5 - SCRAP METAL	SOLID			402.2	CU. METERS
6 - OIL	LIQUID			31,645.1	LITERS
8 - CHEMICALS	LIQUID			13,661.1	LITERS
8 - CHEMICALS	SOLID			3,515.3	KILOGRAMS
9 - OTHER	SOLID			49.2	CU. METERS
PBF					
DISPOSED WASTE					
1 - TRASH	SOLID	4.6	CU. METERS	364.7	CU. METERS
3 - WOOD AND SCRAP LUMBER	SOLID			12.6	CU. METERS
4 - MASONRY AND CONCRETE	SOLID			15.3	CU. METERS
9 - OTHER	SOLID			9.6	CU. METERS
TAN					
DISPOSED WASTE					
1 - TRASH	SOLID	123.1	CU. METERS	2,203.7	CU. METERS
2 - CAFETERIA GARBAGE	SOLID	6.1	CU. METERS	362.4	CU. METERS
3 - WOOD AND SCRAP LUMBER	SOLID	4.9	CU. METERS	21.7	CU. METERS
4 - MASONRY AND CONCRETE	SOLID	3.8	CU. METERS	56.6	CU. METERS
5 - SCRAP METAL	SOLID			32.1	CU. METERS
9 - OTHER	SOLID			1.5	CU. METERS
TRA					
DISPOSED WASTE					
1 - TRASH	SOLID	122.3	CU. METERS	1,902.0	CU. METERS
2 - CAFETERIA GARBAGE	SOLID	6.1	CU. METERS	122.3	CU. METERS
3 - WOOD AND SCRAP LUMBER	SOLID	6.1	CU. METERS	2,188.3	CU. METERS
4 - MASONRY AND CONCRETE	SOLID			46.3	CU. METERS
9 - OTHER	SOLID			125.8	CU. METERS

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INEL INDUSTRIAL WASTE SUMMARY
DECEMBER AND YEAR-TO-DATE 1983

RPT 3-I

AREA OF ORIGIN / TYPE OF WASTE		MONTHLY VOLUME OR WEIGHT	UNITS	YEAR TO DATE VOLUME OR WEIGHT	UNITS
WER					
DISPOSED WASTE					
1 - TRASH	SOLID			12.2	CU. METERS
3 - WOOD AND SCRAP LUMBER	SOLID			4.6	CU. METERS
4 - MASONRY AND CONCRETE	SOLID			7.6	CU. METERS
5 - SCRAP METAL	SOLID			5.4	CU. METERS
9 - OTHER	SOLID			15.3	CU. METERS
WMC					
DISPOSED WASTE					
1 - TRASH	SOLID	6.1	CU. METERS	101.3	CU. METERS
3 - WOOD AND SCRAP LUMBER	SOLID			9.8	CU. METERS
4 - MASONRY AND CONCRETE	SOLID			0.2	CU. METERS
9 - OTHER	SOLID			8.0	CU. METERS
INEL GRAND TOTALS					
DISPOSED WASTE					
1 -TRASH	SOLID	1,281.5	CU. METERS	19,649.4	CU. METERS
2 -CAFETERIA GARBAGE	SOLID	247.0	CU. METERS	3,445.9	CU. METERS
3 -WOOD AND SCRAP LUMBER	SOLID	147.9	CU. METERS	4,680.7	CU. METERS
4 -MASONRY AND CONCRETE	SOLID	25.6	CU. METERS	1,418.1	CU. METERS
5 -SCRAP METAL	SOLID	33.6	CU. METERS	485.9	CU. METERS
6 -OIL	LIQUID			8,365.5	LITERS
8 -CHEMICALS	LIQUID			5,677.9	LITERS
8 -CHEMICALS	SOLID			465.5	KILOGRAMS
9 -OTHER	SOLID	19.1	KILOGRAMS	2,826.9	KILOGRAMS
STORED WASTE					
5 -SCRAP METAL	SOLID			402.2	CU. METERS
6 -OIL	LIQUID			31,645.1	LITERS
8 -CHEMICALS	LIQUID			13,661.1	LITERS
8 -CHEMICALS	SOLID			3,515.3	KILOGRAMS
9 -OTHER	SOLID			321.3	KILOGRAMS

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INEL AIRBORNE AND LIQUID DISPOSED SUBSTANCES SUMMARY
DECEMBER AND YEAR-TO-DATE 1983

RPT 4-1

ALL FACILITIES	MONTHLY				YEAR TO DATE			
SUBSTANCES	ATMOSPHERE (KILOS)	SURFACE (KILOS)	SUBSURFACE (KILOS)	TOTAL (KILOS)	ATMOSPHERE (KILOS)	SURFACE (KILOS)	SUBSURFACE (KILOS)	TOTAL (KILOS)
AMIDES		6		6		56		66
ARSENIC			0	0			0	0
AUTO CLEANERS			18	18			1,283	1,283
BARIUM			18	18			192	192
BERYLLIUM						0		0
BETZ FERROSPERSEHP		17		17		84		84
BETZ 45						92		92
BORON						1 370		1,370
CADMIUM			0	0			0	0
CALCIUM ION		165	52	217		2,280	366	2,646
CARBONTHIOCYANATES		1		1		13		13
CHLORIDE ION		5,060	33,676	38,736		47,140	362,567	409,705
CHLOROSULFONES		4		4		52		52
CHROMATE ION						85		85
CHROMIUM			0	0			21	21
DIMETHYLAMINE		23		23		206		206
FLUORIDE ION			144	144			2,567	2,567
HEDP	0	87		88	2	931		933
HPA						1		1
HYDROCARBON-AMINES		2		2		6		6
HYDROCARBONS		11		11		131		131
HYDROXYCARBONS		4		4		89		89

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INEL AIRBORNE AND LIQUID DISPOSED SUBSTANCES SUMMARY
DECEMBER AND YEAR-TO-DATE 1983

ALL FACILITIES	MONTHLY				YEAR TO DATE			
SUBSTANCES	ATMOSPHERE (KILOS)	SURFACE (KILOS)	SUBSURFACE (KILOS)	TOTAL (KILOS)	ATMOSPHERE (KILOS)	SURFACE (KILOS)	SUBSURFACE (KILOS)	TOTAL (KILOS)
HYPOCHLORITE ION		463	80	543		6,409	421	6,829
LAUNDRY PRODUCTS			316	316			4,806	4,806
LEAD			2	2			116	116
MERCURY			2	2		0	13	13
MORPHOLINE		12		12		178		178
N-HYDROCARBON		17		17		413		413
NITRATE ION			4,320	4,320			210,233	210,233
NITRIC OXIDE					38,551			38,551
NITROGEN DIOXIDE					533,029			533,029
PHOSPHATE	1	199	8	208	5	2,118	98	2,221
PHOSPHATE ION		595	5	600		34,217	25	34,242
PHOSPHONATE		71		71		886		886
PHOTO LAB CHEMICAL		163		163		1,960		1,960
POLYACRYLATE	1	331		331	4	2,895		2,899
POLYHYDROXYCARBON						1		1
POLYMETHACRYLATE		47		47		575		575
POLYPHOSPHATE		166		166		2,064		2,064
POTASSIUM ION	0	31		32	1	335		336
SELENIUM			0	0			0	0
SILVER			2	2			21	21
SOAP			77	77			855	855
SODIUM ION	0	5,499	21,779	27,278	1	53,902	239,129	293,029

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INEL AIRBORNE AND LIQUID DISPOSED SUBSTANCES SUMMARY
DECEMBER AND YEAR-TO-DATE 1983

RPT 4-I

ALL FACILITIES	MONTHLY				YEAR TO DATE			
SUBSTANCES	ATMOSPHERE (KILOS)	SURFACE (KILOS)	SUBSURFACE (KILOS)	TOTAL (KILOS)	ATMOSPHERE (KILOS)	SURFACE (KILOS)	SUBSURFACE (KILOS)	TOTAL (KILOS)
SODIUM PHOSPHATE		1		1		15		15
SULFATE ION		58,052	6,120	64,172		632,042	94,674	726,716
SULFITE ION		24	5	30		161	57	218
SULFONATE		47		47		590		590
TDS		31,443		31,443		679,547		679,547
TOLYTRIAZOLE	0	22		22	1	233		233
TOTAL HARDNESS		36,712		36,712		432,280		432,280

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UNITED STATES DEPARTMENT OF ENERGY
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INEL MONTHLY FUEL OIL SUMMARY
DECEMBER 1983

RPT F-1

AREA OF ORIGIN	FUEL OIL IN LITERS					KILOGRAMS DISCHARGED		
	TYPE 2	TYPE 5	TYPE 6	KEROSENE	DIESEL	SO2	NOX	PARTICULATES
ANL	93,005					362		123
ARA					7,779	54		
CFA	31,176					177		
CPP		1,003,105				25,675		
LOF	47,316				757	273		
MHD	90,772					546		
NRF		622,682				15,578	2,015	1,336
PBF	23,264					132		
TAN	40,995	156,501				4,399		
TRA		235,294			136,612	7,192		1,170
WMC	5,122					29		
WRF	39,746					225		
GRAND TOTALS	371,395	2,017,980	0	0	145,147	54,642	2,015	2,628

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INEL YEAR-TO-DATE FUEL OIL SUMMARY
FOR JANUARY THROUGH DECEMBER 1983

AREA OF ORIGIN	FUEL OIL IN LITERS					KILOGRAMS DISCHARGED		
	TYPE 2	TYPE 5	TYPE 6	KEROSENE	DIESEL	SO2	NOX	PARTICULATES
ANL	1,492,438					5,811		1,967
ARA	72,613				15,058	515		
CFA	527,762				9,899	3,057		
CPP		6,792,796				173,863		
LOF	288,061				158,226	2,804		
MHD	518,283					3,119		
NRF		3,001,062				96,399	9,710	6,437
PBF	125,502				82,474	1,178		
TAN	315,145	1,276,782				35,693		
TRA		1,269,953			1,623,402	44,932		6,315
WMC	41,082				193	234		
WRF	224,987					1,274		
GRAND TOTALS	3,605,872	12,340,593	0	0	1,889,251	368,880	9,710	14,720

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ANL AIRBORNE DISPOSED SUBSTANCES SUMMARY
FOR JANUARY THROUGH DECEMBER 1983

AREA GRAND TOTALS SUBSTANCE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL TOTALS
HEDP													
WEIGHT (KGS)		0	0	0	0		0	0	0	0	0	0	2
PHOSPHATE													
WEIGHT (KGS)		0	1	1	1		0	1	1	1	0	0	5
POLYACRYLATE													
WEIGHT (KGS)		0	1	0	0		0	0	0	1	0	1	4
POTASSIUM ION													
WEIGHT (KGS)		0	0	0	0		0	0	0	0	0	0	1
SODIUM ION													
WEIGHT (KGS)		0	0	0	0		0	0	0	0	0	0	1
TOLYTRIAZOLE													
WEIGHT (KGS)		0	0	0	0		0	0	0	0	0	0	1

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ANL AIRBORNE DISPOSED SUBSTANCES SUMMARY
FOR JANUARY THROUGH DECEMBER 1983

RPT 114-1
ANL-4

RELEASE POINT DESCRIPTION / SUBSTANCE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL TOT & AVE
COOLING TOWER 757													
VOLUME (1000 CM)		258	594	527	580		177	499	393	586	357	590	4,563
HEDP													
CONC. (MG/L)	0.55	0.77	0.77	0.89	0.46	0.75	0.86	0.73	0.37	0.88			0.74
WEIGHT (KGS)	0	0	0	0	0	0	0	0	0	0			2
PHOSPHATE													
CONC. (MG/L)	1.26	1.74	1.76	2.03	1.05	1.71	1.95	1.67	0.83	2.00			1.69
WEIGHT (KGS)	0	1	1	1	0	1	1	1	0	1			5
POLYACRYLATE													
CONC. (MG/L)	0.92	1.44	1.13	1.25	0.83	1.14	1.45	1.39	1.18	1.80			1.31
WEIGHT (KGS)	0	1	0	0	0	0	0	1	0	1			4
POTASSIUM ION													
CONC. (MG/L)	0.20	0.28	0.28	0.32	0.17	0.27	0.31	0.26	0.13	0.32			0.27
WEIGHT (KGS)	0	0	0	0	0	0	0	0	0	0			1
SODIUM ION													
CONC. (MG/L)	0.31	0.43	0.43	0.50	0.26	0.42	0.48	0.41	0.21	0.49			0.42
WEIGHT (KGS)	0	0	0	0	0	0	0	0	0	0			1
TOLYTRIAZOLE													
CONC. (MG/L)	0.14	0.15	0.19	0.22	0.12	0.19	0.21	0.18	0.09	0.22			0.18
WEIGHT (KGS)	0	0	0	0	0	0	0	0	0	0			1

NOTES: [illegible]

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ANL LIQUID DISPOSED SUBSTANCES SUMMARY
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RPT 115-I
ANL-B

AREA GRAND TOTALS SUBSTANCE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL TOTALS
AMIDES WEIGHT (KGS)	1	6	5	5	5	1	6	5	9	13	5	6	66
CARBONTHIOCYANATES WEIGHT (KGS)	0	1	1	1	1	0	1	1	2	3	1	1	13
CHLORIDE ION WEIGHT (KGS)	12	12	12	12	12	12	12	12	12	12	12	12	144
CHLOROSULFONES WEIGHT (KGS)	1	4	4	4	4	0	4	4	7	11	4	4	52
DIMETHYLAMINE WEIGHT (KGS)		23	23	23	23	1	9	21	16	25	23	23	206
HEDP WEIGHT (KGS)	3	8	23	21	30	5	7	31	25	25	7	21	207
HYDROCARBON-AMINES WEIGHT (KGS)	1	1		0	0	1	0	0	0		1	2	6
HYDROCARBONS WEIGHT (KGS)	2	11	10	10	10	1	11	9	18	26	10	11	131
HYDROXYCARBONS WEIGHT (KGS)	0	0	1	1	1		1	0	1	0	0	0	6
MORPHOLINE WEIGHT (KGS)	19	8	16	12	20	12	42	8	4	12	12	12	178
N-HYDROCARBON WEIGHT (KGS)	1	1	4	5	4		4	2	6	1	1	1	30
PHOSPHATE WEIGHT (KGS)	7	19	53	47	68	12	17	72	56	58	16	47	472
PHOTO LAB CHEMICAL WEIGHT (KGS)	163	163	163	163	163	163	163	163	163	163	163	163	1,960
POLYACRYLATE WEIGHT (KGS)	6	14	44	31	42	11	14	48	42	48	23	43	364
POTASSIUM ION WEIGHT (KGS)	1	3	8	7	11	2	3	11	9	9	3	7	75

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ANL LIQUID DISPOSED SUBSTANCES SUMMARY
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RPT 115-1
ANL-R

AREA GRAND TOTALS SUBSTANCE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL TOTALS
SODIUM ION WEIGHT (KGS)	334	171	345	344	266	86	336	317	296	446	336	344	3,550
SULFATE ION WEIGHT (KGS)	1,246	1,731	5,747	4,776	5,434	692	2,942	9,866	6,786	6,300	4,421	5,538	55,4[illegible]
TOLYTRIAZOLE WEIGHT (KGS)	1	2	6	5	7	1	2	8	5	6	3	5	52

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ANL LIQUID DISPOSED SUBSTANCES SUMMARY
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RELEASE POINT DESCRIPTION / SUBSTANCE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL TOT & AVG
FACILITY 779 SURFACE													
VOLUME (1000 L)	1,906	2,486	1,598	1,235	1,516	1,190	905	1,291	1,074	1,048	1,511	1,031	16,79[illegible]
PH													
CHLORIDE ION													
CNC. (MG/L)	6.24	4.79	7.45	9.64	7.85	10.00	13.15	9.22	11.08	11.[illegible]	7.88	11.55	8.51
WEIGHT (KGS)	12	12	12	12	12	12	12	12	12	12	12	12	143
INDUSTRIAL POND 746 SURFACE													
VOLUME (1000 L)	2,883	8,301	13,579	10,864	8,441	6,060	10,519	22,928	15,993	16,511	13,423	20,058	149,961
PH													
AMIDES													
CNC. (MG/L)	0.35	0.67	0.36	0.47	0.60	0.08	0.53	0.20	0.57	0.80	0.38	0.28	0.44
WEIGHT (KGS)	1	6	5	5	5	1	6	5	9	13	5	6	66
CARBONTHIOCYANATES													
CNC. (MG/L)	0.07	0.14	0.07	0.09	0.12	0.02	0.11	0.04	0.11	0.16	0.08	0.06	0.09
WEIGHT (KGS)	0	1	1	1	1	0	1	1	2	3	1	1	13
CHLORIDE ION													
CNC. (MG/L)	0.01	0.00	0.01	0.01	0.02		0.01	0.00	0.01	0.00	0.00	0.00	0.00
WEIGHT (KGS)	0	0	0	0	0		0	0	0	0	0	0	1
CHLOROSULFONES													
CNC. (MG/L)	0.28	0.54	0.29	0.37	0.48	0.07	0.43	0.16	0.46	0.64	0.30	0.22	0.35
WEIGHT (KGS)	1	4	4	4	4	0	4	4	7	11	4	4	52
DIMETHYLAMINE													
CNC. (MG/L)		2.73	1.62	2.09	2.65	0.15	0.86	0.93	0.99	1.37	1.65	1.13	1.37
WEIGHT (KGS)		23	23	23	23	1	9	21	16	23	23	23	206
HEDP													
CNC. (MG/L)	0.99	1.01	1.65	1.91	3.52	0.85	0.71	1.37	1.55	1.53	0.54	1.04	1.38
WEIGHT (KGS)	3	8	23	21	30	5	7	31	25	25	7	21	207

NOTE: UNDERLINE = CALCULATED CONCENTRATION BASED UPON CHEMICAL USAGE

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ANL LIQUID DISPOSED SUBSTANCES SUMMARY
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RPT 115-1
ANL-B

RELEASE POINT DESCRIPTION SUBSTANCE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL TOT & AVE
HYDROCARBON-AMINES													
CNC. (MG/L)	0.45	0.08		0.01	0.02	0.11	0.03	0.01	0.02		0.10	0.08	0.04
WEIGHT (KGS)	1	1		0	0	1	0	0	0		1	2	[illegible]
HYDROCARBONS													
CNC. (MG/L)	0.70	1.35	0.73	0.93	1.20	0.17	1.06	0.40	1.14	1.60	0.76	0.56	0.87
WEIGHT (KGS)	2	11	10	10	10	1	11	9	18	26	10	11	131
HYDROXYCARBONS													
CNC. (MG/L)	0.06	0.02	0.07	0.09	0.11		0.09	0.02	0.08	0.02	0.01	0.01	0.04
WEIGHT (KGS)	0	0	1	1	1		1	0	1	0	0	0	6
MORPHOLINE													
CNC. (MG/L)	6.66	0.98	1.14	1.10	2.35	2.00	3.98	0.35	0.25	0.72	0.91	0.61	1.18
WEIGHT (KGS)	19	8	16	12	20	12	42	8	4	12	12	12	178
N-HYDROCARBON													
CNC. (MG/L)	0.29	0.10	0.31	0.43	0.50		0.40	0.07	0.37	0.08	0.06	0.04	0.20
WEIGHT (KGS)	1	1	4	5	4		4	2	6	1	1	1	30
PHOSPHATE													
CNC. (MG/L)	2.26	2.29	3.76	4.34	8.01	2.03	1.62	3.12	3.53	3.49	1.22	2.36	3.14
WEIGHT (KGS)	7	19	53	47	68	12	17	72	56	58	16	47	472
PHOTO LAB CHEMICAL													
CNC. (MG/L)	56.63	19.67	11.68	15.03	19.34	26.94	15.52	7.12	10.21	9.89	12.17	8.14	13.07
WEIGHT (KGS)	163	163	163	163	163	163	163	163	163	163	163	163	1,960
POLYACRYLATE													
CNC. (MG/L)	1.91	1.67	3.12	2.85	4.94	1.82	1.29	2.08	2.62	2.91	1.72	2.13	2.43
WEIGHT (KGS)	6	14	44	31	42	11	14	48	42	48	23	43	364
POTASSIUM ION													
CNC. (MG/L)	0.36	0.36	0.60	0.69	1.27	0.32	0.26	0.49	0.56	0.55	0.19	0.37	0.50
WEIGHT (KGS)	1	3	8	7	11	2	3	11	9	9	3	7	75

NOTE: UNDERLINE = CALCULATED CONCENTRATION BASED UPON CHEMICAL USAGE

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ANL LIQUID DISPOSED SUBSTANCES SUMMARY
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RPT 115-I
ANL-B

RELEASE POINT DESCRIPTION SUBSTANCE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL TOT & AVE
SODIUM ION													
CNC. (MG/L)	115.72	20.57	24.68	31.63	31.48	14.20	31.96	13.80	18.52	20.97	25.04	17.13	23.47
WEIGHT (KGS)	334	171	345	344	266	86	336	317	296	346	336	344	3,520
SULFATE ION													
CNC. (MG/L)	432.15	208.51	411.11	439.65	643.75	114.22	279.72	430.29	424.30	381.57	330.09	276.11	370.03
WEIGHT (KGS)	1,246	1,731	5,747	4,776	5,434	692	2,942	9,866	6,786	6,300	4,431	5,538	55,489
TOLYTRIAZOLE													
CNC. (MG/L)	0.25	0.25	0.41	0.48	0.88	0.22	0.18	0.34	0.39	0.38	0.13	0.26	0.34
WEIGHT (KGS)	1	2	6	5	7	1	2	8	6	6	2	5	52

NOTE: UNDERLINE - CALCULATED CONCENTRATION BASED UPON CHEMICAL USAGE

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ANL INDUSTRIAL WASTE SUMMARY
FOR JANUARY THROUGH DECEMBER 1983

RPT 116-1
ANL

DISPOSAL OR STORAGE LOCATION / TYPE OF WASTE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS
	VOLUME OR WEIGHT BY MONTH												
ANL BOILERS													
DISPOSED WASTE													
6 L LIQUID	340.7	45.4		140.1	75.7	68.1	813.8	113.6	435.3		503.4		2,536.2
WASTE OIL													
CFA HMDA													
DISPOSED WASTE													
9 KG SOLID			13.6										13.6
TWO SMOKE BOMBS (15# EACH)													
CFA LANDFILL													
DISPOSED WASTE													
1 M SOLID	275.3	168.2	214.1	260.0	183.5	202.6	214.1	276.0	191.2	168.2	240.9	145.3	2,539.4
2 M SOLID	55.1	36.7	36.7	55.1	36.7	12.2	42.8	12.2	36.7	36.7	48.9	24.5	434.3
3 M SOLID						6.1		8.4			4.6		19.1
SCRAP LUMBER													
3 M SOLID					15.3								15.3
SCRAP WOOD													
4 M SOLID							15.3			22.9	8.4		46.6
CONCRETE													
5 M SOLID			3.1										3.1
BUCKET AND METAL SHAVINGS													
5 M SOLID		3.1		3.1		7.6		0.8		3.1			17.6
METAL SHAVINGS													
5 M SOLID					7.6								7.6
SCRAP METAL													
9 M SOLID				4.4									4.4
ASBESTOS													
9 M SOLID						60.4		9.2	37.5	19.1	16.8		143.0
ASPHALT													
9 M SOLID							6.1	3.8					9.9
NON-ASBESTOS INSULATION													
9 M SOLID										15.3			15.3
ROOFING													
CFA 637													
STORED WASTE													
9 KG SOLID							272.2						272.2
3 PCB CAPACITORS													

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ANL INDUSTRIAL WASTE SUMMARY
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DISPOSAL OR STORAGE LOCATION / TYPE OF WASTE	VOLUME OR WEIGHT BY MONTH JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS
GRAND TOTALS													
DISPOSED WASTE													
1 M SOLID	275.3	168.2	214.1	260.0	183.5	202.6	214.1	276.0	191.2	168.2	240.9	145.3	2,539.4
2 M SOLID	55.1	36.7	36.7	55.1	36.7	12.2	42.8	12.2	36.7	36.7	48.9	24.5	434.3
3 M SOLID					15.3	6.1		8.4			4.6		34.4
4 M SOLID							15.3			22.9	8.4		46.6
5 M SOLID		3.1	3.1	3.1	7.6	7.6		0.8		3.1			28.3
6 L LIQUID	340.7	45.4		140.1	75.7	68.1	813.8	113.6	435.3		503.4		2,536.2
9 KG SOLID			13.6										13.6
9 M SOLID				4.4		60.4	6.1	13.0	37.5	34.4	16.8		172.6
STORED WASTE													
9 KG SOLID							272.2						272.2

M = CUBIC METERS L = LITERS K = KILOGRAMS

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ANL WATER USAGE AND DISPOSAL SUMMARY
FOR JANUARY THROUGH DECEMBER 1983

RPT 117-T
ANL

(ALL VOLUMES = NEAREST THOUSAND LITERS)

WELL OR BUILDING NO. / SEWAGE BUILDING NO	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS & AVERAGES
WATER DATA													
1 WATER PUMPED (L)	5,947	13,809	24,010	21,610	27,228	16,648	13,771	29,665	21,977	24,491	16,625	21,107	236,888
2 WATER PUMPED (L)	5,947	13,809	24,010	21,610	27,228	16,648	13,771	29,665	21,977	24,491	16,625	21,107	236,888
WATER PUMPED (L)	11,893	27,618	48,020	43,221	54,455	33,295	27,542	59,331	43,955	48,982	33,250	42,214	473,776
WATER DISPOSAL													
AIR (L)	5,867	14,021	25,797	22,761	28,246	24,521	14,695	35,052	24,642	28,923	16,606	18,953	260,084
SURFACE (L)	2,883	8,301	13,979	10,864	8,441	6,060	10,519	22,928	15,993	16,511	13,423	20,058	149,961
SUBSURFACE (L)													
SEWAGE DATA													
720 BUILD VOL. (L) *	45	45	45	45	45	45	45	45	45	45	45	45	545
BIOCHEMICAL OXYGEN DEMAND (BOD)													
RAW CONC. (MG/L)													
FINAL CONC. (MG/L)													
% REMOVED													
DISSOLVED OXYGEN (DO)													
RAW CONC. (MG/L)													
FINAL CONC. (MG/L)													
INCREASED FACTOR													
SETTLEABLE SOLIDS (SS)													
RAW CONC. (ML/L)													
FINAL CONC. (ML/L)													
% REMOVED													
PH FINAL													

NOTE: "*" IN COLUMNS INDICATE PORTION OF VOLUME IS ESTIMATED

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ANL WATER USAGE AND DISPOSAL SUMMARY
FOR JANUARY THROUGH DECEMBER 1983

RPT 117-1
ANL

(ALL VOLUMES = NEAREST THOUSAND LITERS)

WELL OR BUILDING NO. / SEWAGE BUILDING NO	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS & AVERAGES
SEWAGE DATA													
779 BUILD VOL. (L) *	1,906	2,486	1,558	1,235	1,516	1,190	905	1,291	1,074	1,048	1,511	1,031	16,793
BIOCHEMICAL OXYGEN DEMAND (BOD)													
RAW CONC. (MG/L)													
FINAL CONC. (MG/L)													
% REMOVED													
DISSOLVED OXYGEN (DO)													
RAW CONC. (MG/L)													
FINAL CONC. (MG/L)													
INCREASED FACTOR													
SETTLEABLE SOLIDS (SS)													
RAW CONC. (ML/L)													
FINAL CONC. (ML/L)													
% REMOVED													
PH FINAL													
TOTAL SEWAGE VOL. (L)	1,952	2,531	1,644	1,280	1,562	1,236	951	1,337	1,120	1,094	1,556	1,077	17,338
TOTAL WATER DISPOSED (L)	10,702	24,853	41,420	34,905	38,249	31,817	26,165	59,316	41,755	46,529	31,585	40,088	427,383
ACCOUNTABILITY (%)	90.0	90.0	86.3	80.8	70.2	95.6	95.0	100.0	95.0	95.0	95.0	95.0	90.2

NOTE: "*" IN COLUMNS INDICATE A PORTION OF VOLUME IS ESTIMATED

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ANL FUEL OIL USAGE AND STACK EFFLUENTS SUMMARY
FOR JANUARY THROUGH DECEMBER 1983

RPT 118-I
ANL

(ALL VALUES = NEAREST THOUSAND)

FUEL OIL TYPE EFFLUENTS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS
TYPE 2													
VOLUME (LITERS)	390	278	315	48	8	99	39	14	65	7	136	93	1,492
SO2 (KGS)	2	1	1	0	0	0	0	0	0	0	1	0	6
NOX (KGS)													
PARTICULATES (KGS)	1	0	0	0	0	0	0	0	0	0	0	0	2
GRAND TOTALS													
SO2 (KGS)	2	1	1	0	0	0	0	0	0	0	1	0	6
NOX (KGS)													
PARTICULATES (KGS)	1	0	0	0	0	0	0	0	0	0	0	0	2

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ARA INDUSTRIAL WASTE SUMMARY
FOR JANUARY THROUGH DECEMBER 1983

RPT 126-I
ARA

DISPOSAL OR STORAGE LOCATION / TYPE OF WASTE	VOLUME OR WEIGHT BY MONTH JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS
OFA LANDFILL													
DISPOSED WASTE													
1 M SOLID	3.8	22.9	36.7	48.9		7.6		4.6	42.1		23.7		190.4
3 M SOLID										1.5			1.5
4 M SOLID				0.8									0.8
5 M SOLID							3.1					3.1	6.1
9 M SOLID				3.4									3.4
OTHER - WEEDS													
GRAND TOTALS													
DISPOSED WASTE													
1 M SOLID	3.8	22.9	36.7	48.9		7.6		4.6	42.1		23.7		190.4
3 M SOLID										1.5			1.5
4 M SOLID				0.8									0.8
5 M SOLID							3.1					3.1	6.1
9 M SOLID				3.4									3.4

M = CUBIC METERS L = LITERS K = KILOGRAMS

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ARA WATER USAGE AND DISPOSAL SUMMARY
FOR JANUARY THROUGH DECEMBER 1983

PPT 127-1
ARA

(ALL VOLUMES = NEAREST THOUSAND LITERS)

WELL OR BUILDING NO. / SEWAGE BUILDING NO	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS & AVERAGES
WATER DATA													
2 WATER PUMPED (L)	6,219	5,985	5,602	5,315	5,341	5,485	6,356	6,253	5,439	6,083	6,098	6,416	70,592
3 WATER PUMPED (L)	3,176	2,775	3,252	4,096	3,713	2,975	4,311	3,956	3,342	3,683	3,157	2,608	41,044
WATER PUMPED (L)	9,395	8,759	8,854	9,410	9,054	8,460	10,667	10,209	8,782	9,766	9,255	9,024	111,636
WATER DISPOSAL													
AIR (L) *													
SURFACE (L) *	8,839	8,203	8,297	8,854	8,498	7,904	10,111	9,653	4,440	9,210	8,699	8,468	101,173
SUBSURFACE (L) *													
SEWAGE DATA													
BUILD VOL. (L) *	556	556	556	556	556	556	556	556	556	556	556	556	6,677
BIOCHEMICAL OXYGEN DEMAND (BOD)													
RAW CONC. (MG/L)													
FINAL CONC. (MG/L)													
% REMOVED													
DISSOLVED OXYGEN (DO)													
RAW CONC. (MG/L)													
FINAL CONC. (MG/L)													
INCREASED FACTOR													
SETTLEABLE SOLIDS (SS)													
RAW CONC. (ML/L)													
FINAL CONC. (ML/L)													
% REMOVED													
PH FINAL													
TOTAL SEWAGE VOL. (L)	556	556	556	556	556	556	556	556	556	556	556	556	6,677
TOTAL WATER DISPOSED (L)	9,395	8,759	8,854	9,410	9,054	8,460	10,667	10,209	4,997	9,766	9,255	9,024	107,851
ACCOUNTABILITY (%)	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	56.9	100.0	100.0	100.0	96.6

NOTE: "*" IN COLUMNS INDICATE A PORTION OF VOLUME IS ESTIMATED

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ARA FUEL OIL USAGE AND STACK EFFLUENTS SUMMARY
FOR JANUARY THROUGH DECEMBER 1983

RPT 128-I
ARA

(ALL VALUES = NEAREST THOUSAND)

FUEL OIL TYPE / EFFLUENTS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS
DIESEL													
VOLUME (LITERS)	7											8	15
SO2 (KGS)	0											0	0
NOX (KGS)													
PARTICULATES (KGS)													
TYPE 2													
VOLUME (LITERS)	16	13	5	16	2	6			8		7		73
SO2 (KGS)	0	0	0	0	0	0			0		0		0
NOX (KGS)													
PARTICULATES (KGS)													
GRAND TOTALS													
SO2 (KGS)	0	0	0	0	0	0			0		0	0	1
NOX (KGS)													
PARTICULATES (KGS)													

SCHED. NO. P68PM007-R

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CFA LIQUID DISPOSED SUBSTANCES SUMMARY
FOR JANUARY THROUGH DECEMBER 1983

RPT 135-1
CFA-P

AREA GRAND TOTALS SUBSTANCE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL TOTALS
AUTO CLEANERS													
WEIGHT (KGS)	151	151	151	151	151	151	151	151	18	18	18	18	1,283
CALCIUM ION													
WEIGHT (KGS)	17	17	26	21	42	26	26	27	44	36	32	52	366
CHLORIDE ION													
WEIGHT (KGS)	90	90	54	92	101	94	94	425	1,221	1,577	1,793	1,913	7,584
HYPOCHLORITE ION													
WEIGHT (KGS)	11	11	17	13	27	16	17	18	74	71	65	80	421
LAUNDRY PRODUCTS													
WEIGHT (KGS)	393	337	444	351	435	473	489	436	372	438	318	316	4,806
PHOSPHATE													
WEIGHT (KGS)	8	8	8	8	8	8	8	8	8	8	8	8	98
SOAP													
WEIGHT (KGS)	72	88	77	73	52	73	67	68	80	67	62	77	855
SODIUM ION													
WEIGHT (KGS)	54	54	54	54	54	54	54	268	758	990	1,133	1,204	4,726

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CFA LIQUID DISPOSED SUBSTANCES SUMMARY
FOR JANUARY THROUGH DECEMBER 1983

RPT 135-1
CFA-B

RELEASE POINT DESCRIPTION / SUBSTANCE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL TOT & AVE
SEWAGE PLANT	SUBSURFACE												
VOLUME (1000 L)	478	141	607	487	88	431	482	7,472	21,027	19,528	16,216	24,154	91,111
PH											6.8	7.0	6.9
AUTO CLEANERS													
CNC. (MG/L)	316.65	1071.33	249.29	310.49	1728.40	351.15	313.91	20.24	0.86	0.93	1.12	0.75	14.08
WEIGHT (KGS)	151	151	151	151	151	151	151	151	18	18	18	18	1,283
CALCIUM ION													
CNC. (MG/L)	35.71	119.70	42.83	42.87	477.31	59.22	53.93	3.67	2.08	1.86	1.99	2.16	4.02
WEIGHT (KGS)	17	17	26	21	42	26	26	27	44	36	32	52	366
CHLORIDE ION													
CNC. (MG/L)	188.65	637.77	155.03	188.46	1154.66	217.88	195.21	56.88	58.06	80.73	110.56	79.20	83.23
WEIGHT (KGS)	90	90	94	92	101	94	94	425	1,221	1,577	1,793	1,913	7,584
HYPOCHLORITE ION													
CNC. (MG/L)	22.92	76.82	27.49	27.52	306.35	38.01	34.61	2.36	3.53	3.66	4.03	3.33	4.62
WEIGHT (KGS)	11	11	17	13	27	16	17	18	74	71	65	80	421
LAUNDRY PRODUCTS													
CNC. (MG/L)	822.19	2390.16	731.83	720.65	5011.89	1097.21	1013.80	58.40	17.69	22.44	19.61	13.09	52.75
WEIGHT (KGS)	393	337	444	351	439	473	489	436	372	438	318	316	4,806
PHOSPHATE													
CNC. (MG/L)	17.09	57.83	13.46	16.76	93.29	18.95	16.94	1.09	0.39	0.42	0.50	0.34	1.08
WEIGHT (KGS)	8	8	8	8	8	8	8	8	8	8	8	8	98
SOAP													
CNC. (MG/L)	150.02	623.24	126.33	149.90	590.85	168.48	138.37	9.17	3.82	3.44	3.83	3.19	9.39
WEIGHT (KGS)	72	88	77	73	52	73	67	68	80	67	62	77	855
SODIUM ION													
CNC. (MG/L)	112.01	378.95	88.18	109.83	611.38	124.21	111.04	35.80	36.05	50.69	69.84	49.84	51.87
WEIGHT (KGS)	54	54	54	54	54	54	54	268	758	990	1,133	1,204	4,726

NOTE: UNDERLINE = CALCULATED CONCENTRATION BASED UPON CHEMICAL USAGE

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INEL INDUSTRIAL WASTE MANAGEMENT INFORMATION SYSTEM

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CFA INDUSTRIAL WASTE SUMMARY
FOR JANUARY THROUGH DECEMBER 1983

RPT 136-I
CFA

DISPOSAL OR STORAGE LOCATION / TYPE OF WASTE	VOLUME OR WEIGHT BY MONTH JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS
CFA LANDFILL													
DISPOSED WASTE													
1 M SOLID	155.6	90.2	215.2	154.5	133.E	26C.4	253.5	187.0	154.1	143.4	162.5	208.7	2,118.8
2 M SOLID	64.2	38.2	62.7	37.1	61.2	74.2	63.5	50.5	88.7	44.3	59.6	56.6	700.8
3 M SOLID	16.8	3.1	70.3	16.4	32.5	31.4	46.3	16.8	46.6	19.1	8.0	2.3	309.7
4 M SOLID	3.1	30.6	29.4	17.6	10.3	5.0	29.4	5.4	7.6	9.6	9.9	1.5	159.4
5 M SOLID		3.1	29.8	5.4	6.5	14.9	12.2	6.9	5.0	0.8	5.7		90.2
8 KG SOLID			2.7										2.7
OUTDATEC MEDICATIONS													
8 KG SOLID			181.4										181.4
SODIUM NITRATE													
9 M SOLID	87.9												87.9
DIRT													
9 M SOLID	2.3												2.3
DRUMS													
9 M SOLID	3.1												3.1
GLASS													
9 M SOLID					2.3						3.1		5.4
CTHER - ASBESTCS													
9 M SOLID			12.2	136.5	27.5						10.7		187.0
CTHER - ASPHALT													
9 M SOLID						182.0	10.7	45.9	1156.1	6.1			1,400.8
OTHER - ASPHALT AND GRAVEL													
9 M SOLID						0.4							0.4
OTHER - BIDLOGICAL SAMPLES													
9 M SOLID							1.5			0.8			2.3
OTHER - DIRT													
9 M SOLID				22.9									22.9
OTHER - DIRT AND GRASS													
9 M SOLID						19.1							19.1
CTHER - DIRT AND MUD													
9 M SOLID					3.1	3.1							6.1
CTHER - GLASS													
9 M SOLID					1.5	9.6	18.7	4.6					34.8
CTHER - GRASS AND WEEDS													
9 M SOLID											0.4		0.4
OTHER - OUTDATED DRUGS													
9 M SOLID						2.3						8.4	10.7
OTHER - RCOFING MATERIAL													
9 M SOLID								1.5					1.5
OTHER - SALT													
9 M SOLID							2.3						2.3
OTHER - SUMP SLUDGE													
9 M SOLID									7.6	2.3			9.9
CTHER - WEEDS													

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CFA INDUSTRIAL WASTE SUMMARY
FOR JANUARY THROUGH DECEMBER 1983

RPT 136-I
CFA

DISPOSAL OR STORAGE LOCATION TYPE OF WASTE	VOLUME OR WEIGHT BY MONTH JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS
DISPOSED WASTE													
9 M SOLID TIRES	3.1												3.1
GRAND TOTALS													
DISPOSED WASTE													
1 M SOLID	155.6	90.2	215.2	154.5	133.8	260.4	253.5	187.0	154.1	143.4	162.5	208.7	2,118.8
2 M SOLID	64.2	38.2	62.7	37.1	61.2	74.2	63.5	50.5	88.7	44.3	59.6	56.6	700.8
3 M SOLID	16.8	3.1	70.3	16.4	32.5	31.4	46.3	16.8	46.6	19.1	8.0	2.3	309.7
4 M SOLID	3.1	30.6	29.4	17.6	10.3	5.0	29.4	5.4	7.6	9.6	9.9	1.5	159.4
5 M SOLID		3.1	29.8	5.4	6.5	14.9	12.2	6.9	5.0	0.8	5.7		90.2
8 KG SOLID			184.2										184.2
9 M SOLID	96.3		12.2	159.4	34.8	216.4	33.3	52.0	1163.8	9.2	14.1	8.4	1,800.0

M = CUBIC METERS L = LITERS K = KILOGRAMS

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INEL INDUSTRIAL WASTE MANAGEMENT INFORMATION SYSTEM

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CFA WATER USAGE AND DISPOSAL SUMMARY
FOR JANUARY THROUGH DECEMBER 1983

RPT 137-1
CFA

(ALL VOLUMES = NEAREST THOUSAND LITERS)

WELL OR BUILDING NO. / SEWAGE BUILDING NO	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS & AVERAGES
WATER DATA													
FS2 WATER PUMPED (L)	1,303	1,259	285	102	198	111	340	296	53	115	303	373	4,739
1 WATER PUMPED (L)	284	1,692	110	64	4,065	11,004	5,095	9,282	4,660	42	8,282	15,516	60,100
2 WATER PUMPED (L)	16,371	16,118	19,241	25,032	35,703	37,929	45,348	47,354	35,029	22,693	13,582	6,416	320,815
WATER PUMPED (L)	17,958	19,070	19,636	25,199	39,970	49,044	50,783	56,931	39,742	22,850	22,167	22,305	385,654
WATER DISPOSAL													
AIR (L) *													
SURFACE (L) *	809	883	937	2,461	19,244	29,098	34,461	34,908	5,761	160	282	78	129,084
SUBSURFACE (L)	478	141	607	487	88	431	482	486	489	502	487	7,696	12,373
SEWAGE DATA													
691 BUILD VOL. (L)								6,988	20,539	19,025	15,728	14,528	76,808
BIOCHEMICAL OXYGEN DEMAND (BOD)													
RAW CONC. (MG/L)									161.5	46.0	31.7	6.8	61.5
FINAL CONC. (MG/L)									8.8	7.0	8.3	7.0	7.8
% REMOVED									94.6	84.8	73.8	*******	87.3
DISSOLVED OXYGEN (DO)													
RAW CONC. (MG/L)									1.8	2.5	2.6	3.0	2.5
FINAL CONC. (MG/L)									2.8	4.2	6.4	6.0	4.8
INCREASED FACTOR									0.6	0.7	1.5	1.0	0.9
SETTLEABLE SOLIDS (SS)													
RAW CONC. (ML/L)									1.4	1.0	1.3	1.0	1.2
FINAL CONC. (ML/L)													
% REMOVED													
PH FINAL									6.7	6.7	6.8	7.0	6.8
TOTAL SEWAGE VOL. (L)								6,988	20,539	19,025	15,728	14,528	76,808
TOTAL WATER DISPOSED (L)	1,287	1,025	1,544	2,948	19,332	29,528	34,943	42,382	26,789	19,688	16,498	22,302	218,264
ACCOUNTABILITY (%)	7.2	5.4	7.9	11.7	48.4	60.2	68.8	74.4	67.4	86.2	74.4	100.0	56.6

NOTES: *** IN COLUMNS INDICATE A PORTION OF VOLUME IS ESTIMATED

SCHED. NO. P6BPM009-C

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CFA FUEL OIL USAGE AND STACK EFFLUENTS SUMMARY
FOR JANUARY THROUGH DECEMBER 1983

RPT 138-1
CFA

(ALL VALUES = NEAREST THOUSAND)

FUEL OIL TYPE / EFFLUENTS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS
DIESEL													
VOLUME (LITERS)	1			5		0	0	0	2	0			10
SO2 (KGS)	0			0		0	0	0	0	0			0
NOX (KGS)													
PARTICULATES (KGS)													
TYPE 2													
VOLUME (LITERS)	53	65	54	62	133	27	9		20	23	50	31	528
SO2 (KGS)	0	0	0	0	1	0	0		0	0	0	0	3
NOX (KGS)													
PARTICULATES (KGS)													
GRAND TOTALS													
SO2 (KGS)	0	0	0	0	1	0	0	0	0	0	0	0	3
NOX (KGS)													
PARTICULATES (KGS)													

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UNITED STATES DEPARTMENT OF ENERGY
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CPP AIRBORNE DISPOSED SUBSTANCES SUMMARY
FOR JANUARY THROUGH DECEMBER 1983

RPT 144-I
CPP-A

AREA GRAND TOTALS SUBSTANCE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL TOTALS
NITRIC OXIDE WEIGHT (KGS)	4,857	6,635		7,673	4,731	3,575	2,713	2,144	2,794	3,390			38,551
NITROGEN DIOXIDE WEIGHT (KGS)	68,527	51,576		105,870	65,277	49,442	37,428	29,589	38,554	46,767			533,029

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CPP AIRBORNE DISPOSED SUBSTANCES SUMMARY
FOR JANUARY THROUGH DECEMBER 1983

RPT 144-I
CPP-A

RELEASE POINT DESCRIPTION / SUBSTANCE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL TOT & AVE
STACK 708													
VOLUME (1000 CM)	112,714	138,202	146,981	168,000	137,000	131,000	79,570	65,702	69,101	103,651	95,722	86,900	1,334,551
NITRIC OXIDE													
CONC. (CC/CM)	39.00	43.10	41.00	31.00	24.50	30.60	29.30	36.30	29.36				25.93
WEIGHT (KGS)	4,897	6,635	7,673	4,731	3,575	2,713	2,144	2,794	3,390				38,551
NITROGEN DIOXIDE													
CONC. (CC/CM)	356.00	388.00	369.00	279.00	221.00	275.40	263.70	326.70	264.20				233.87
WEIGHT (KGS)	68,527	91,576	105,870	65,277	49,442	37,428	29,589	38,554	46,767				533,029

NOTE: UNDERLINE = [illegible] WATER CONCENTRATION

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CPP LIQUID DISPOSED SUBSTANCES SUMMARY
FOR JANUARY THROUGH DECEMBER 1983

RPT 145-I
CPP-B

AREA GRAND TOTALS SUBSTANCE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL TOTALS
ARSENIC WEIGHT (KGS)	0	0	0	0	0	0	0	0	0	0	0	0	0
BARIUM WEIGHT (KGS)	14	13	12	14	16	21	15	16	18	18	17	18	192
CADMIUM WEIGHT (KGS)	0	0	0	0	0	0	0	0	0	0	0	0	0
CHLORIDE ION WEIGHT (KGS)	22,814	21,917	26,227	23,803	28,042	38,864	42,206	44,215	26,236	3,298	44,361	31,680	353,663
CHROMIUM WEIGHT (KGS)	3	4	1	3	2	0	2	2	0	0	3	0	21
FLUORIDE ION WEIGHT (KGS)	341	292	54	121	561	63	106	111	543	110	121	144	2,567
LEAD WEIGHT (KGS)	2	1	5	2	2	8	44	46	2	2	2	2	116
MERCURY WEIGHT (KGS)	2	0	0	0	2	2	2	2	0	2	0	2	13
NITRATE ION WEIGHT (KGS)	19,244	18,410	13,453	15,969	22,258	11,828	28,390	29,741	12,666	28,947	5,006	4,320	210,233
SELENIUM WEIGHT (KGS)	0	0	0	0	0	0	0	0	0	0	0	0	0
SILVER WEIGHT (KGS)	2	1	1	2	2	2	2	2	2	2	2	2	21
SODIUM ION WEIGHT (KGS)	14,589	14,319	16,851	13,860	17,701	24,924	25,362	26,569	17,370	18,138	23,130	20,480	233,291
SULFATE ION WEIGHT (KGS)	11,485	10,228	7,746	7,231	9,289	7,181	8,328	8,328	8,142	3,664	6,214	6,080	93,915

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CPP LIQUID DISPOSED SUBSTANCES SUMMARY
FOR JANUARY THROUGH DECEMBER 1983

RPT 145-I
CPP-8

RELEASE POINT DESCRIPTION / SUBSTANCE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL TOT & AVE
DISPOSAL WELL	SUBSURFACE												
VOLUME (1000 L)	155,197	146,113	135,892	150,655	175,259	211,220	189,265	198,274	180,937	183,209	172,610	160,000	2058,631
PH	6.7	6.3	6.4	6.6	6.1	6.6	5.9	6.5		7.6	6.8	6.9	6.6
ARSENIC													
CNC. (MG/L)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WEIGHT (KGS)	0	0	0	0	0	0	0	0	0	0	0	0	0
BARIUM													
CNC. (MG/L)	0.09	0.09	0.09	0.09	0.09	0.10	0.08	0.08	0.10	0.10	0.10	0.11	0.09
WEIGHT (KGS)	14	13	12	14	16	21	15	16	18	18	17	18	192
CADMIUM													
CNC. (MG/L)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WEIGHT (KGS)	0	0	0	0	0	0	0	0	0	0	0	0	0
CHLORIDE ION													
CNC. (MG/L)	147.00	150.00	193.00	158.00	160.00	184.00	223.00	223.00	145.00	18.00	257.00	198.00	171.80
WEIGHT (KGS)	22,814	21,917	26,227	23,803	28,042	38,864	42,206	44,215	26,236	3,298	44,361	31,680	353,663
CHROMIUM													
CNC. (MG/L)	0.02	0.03	0.01	0.02	0.01	0.00	0.01	0.01	0.00	0.00	0.02	0.00	0.01
WEIGHT (KGS)	3	4	1	3	2	0	2	2	0	0	3	0	21
FLUORIDE ION													
CNC. (MG/L)	2.20	2.00	0.40	0.80	3.20	0.30	0.56	0.56	3.00	0.60	0.70	0.90	1.25
WEIGHT (KGS)	341	292	54	121	561	63	106	111	543	110	121	144	2,567
LEAD													
CNC. (MG/L)	0.01	0.01	0.04	0.01	0.01	0.04	0.23	0.23	0.01	0.01	0.01	0.01	0.06
WEIGHT (KGS)	2	1	5	2	2	8	44	46	2	2	2	2	116
MERCURY													
CNC. (MG/L)	0.01	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.00	0.01	0.00	0.01	0.01
WEIGHT (KGS)	2	0	0	0	2	2	2	2	0	2	0	2	13

NOTE: UNDERLINE = CALCULATED CONCENTRATION BASED UPON CHEMICAL USAGE

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CPP LIQUID DISPOSED SUBSTANCES SUMMARY
FOR JANUARY THROUGH DECEMBER 1983

RPT 145-I
CPP-B

RELEASE POINT DESCRIPTION SUBSTANCE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL TOT & AVE
NITRATE ION													
CNC. (MG/L)	124.00	126.00	99.00	106.00	127.00	56.00	150.00	150.00	70.00	158.00	29.00	27.00	102.12
WEIGHT (KGS)	19,244	18,410	13,453	15,969	22,258	11,828	28,390	29,741	12,666	28,947	5,006	4,320	210,233
SELENIUM													
CNC. (MG/L)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WEIGHT (KGS)	0	0	0	0	0	0	0	0	0	0	0	0	0
SILVER													
CNC. (MG/L)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
WEIGHT (KGS)	2	1	1	2	2	2	2	2	2	2	2	2	21
SODIUM ION													
CNC. (MG/L)	94.00	98.00	124.00	92.00	101.00	118.00	134.00	134.00	96.00	99.00	134.00	128.00	113.32
WEIGHT (KGS)	14,589	14,319	16,851	13,860	17,701	24,924	25,362	26,569	17,370	18,138	23,130	20,480	233,291
SULFATE ION													
CNC. (MG/L)	74.00	70.00	57.00	48.00	53.00	34.00	44.00	42.00	45.00	20.00	36.00	38.00	45.62
WEIGHT (KGS)	11,485	10,228	7,746	7,231	9,289	7,181	8,328	8,328	8,142	3,664	6,214	6,080	93,915

NOTE: UNDERLINE = CALCULATED CONCENTRATION BASED UPON CHEMICAL USAGE

IDAHO OPERATIONS OFFICE
UNITED STATES DEPARTMENT OF ENERGY
INEL INDUSTRIAL WASTE MANAGEMENT INFORMATION SYSTEM

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CPP INDUSTRIAL WASTE SUMMARY
FOR JANUARY THROUGH DECEMBER 1983

RPT 146-I
CPP

DISPOSAL OR STORAGE LOCATION / TYPE OF WASTE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS
	VOLUME OR WEIGHT BY MONTH												
CFA LANDFILL													
DISPOSED WASTE													
1 M SOLID	257.7	488.6	397.6	469.5	413.7	427.1	437.4	447.3	373.9	564.3	364.7	202.6	4,844.4
2 M SOLID	30.6	67.3	73.4	74.2	79.5	52.0	30.6	44.3	43.6	75.7	59.6	45.9	676.7
3 M SOLID	71.0	38.2	50.8	84.1	247.0	182.4	91.8	103.2	86.4	285.2	58.1	28.3	1,326.5
4 M SOLID	1.4	1.5	22.9	22.9	104.8	34.0	35.2	242.4	187.3	265.3	56.6	20.3	994.6
5 M SOLID											0.8		0.8
5 M SOLID BARRELS, METAL					3.1								3.1
5 M SOLID BUCKETS								1.1					1.1
5 M SOLID METAL BARRELS				10.7		3.1	6.9						20.6
5 M SOLID METAL BUCKETS		4.6											4.6
5 M SOLID METAL SHAVINGS				3.1			6.1						9.2
5 M SOLID PIPE AND METAL SHAVINGS	6.9												6.9
5 M SOLID SCRAP METAL					3.1			0.8					3.8
5 M SOLID SHEET METAL								0.8					0.8
5 M SOLID SHORING METAL			3.1										3.1
5 M SOLID STEEL BARRELS		0.8											0.8
9 M SOLID ASBESTOS												0.8	0.8
9 M SOLID ASPHALT						6.1							6.1
9 M SOLID DIRT												7.6	7.6
9 M SOLID ELECTRIC CONDUIT											3.4		3.4
9 M SOLID FILTERS								6.1					6.1
9 M SOLID GRAVEL						7.6							7.6
9 M SOLID PLASTIC						4.6							4.6
9 M SOLID PLASTIC BRICKS											0.8		0.8
9 M SOLID RIVER ROCK						13.8							13.8

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CPP INDUSTRIAL WASTE SUMMARY
FOR JANUARY THROUGH DECEMBER 1983

RPT 146-I
CPP

DISPOSAL OR STORAGE LOCATION / TYPE OF WASTE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS
	VOLUME OR WEIGHT BY MONTH												
DISPOSED WASTE													
9 M SOLID					100.9								100.9
RIVER ROCKS													
9 M SOLID						6.1							6.1
SAND													
9 M SOLID	0.8												0.8
SHEET ROCK													
9 M SOLID										3.1			3.1
WEEDS + GRAVEL													
GRAND TOTALS													
DISPOSED WASTE													
1 M SOLID	257.7	488.6	397.6	469.5	413.7	427.1	437.4	447.3	373.9	564.3	364.7	202.6	4,844.4
2 M SOLID	30.6	67.3	73.4	74.2	79.5	52.0	30.6	44.3	43.6	75.7	59.6	45.9	676.7
3 M SOLID	71.0	38.2	50.8	84.1	247.0	182.4	91.8	103.2	86.4	285.2	58.1	28.3	1,326.5
4 M SOLID	1.4	1.5	22.9	22.9	104.8	34.0	35.2	242.4	187.3	265.3	56.6	20.3	994.6
5 M SOLID	6.9	5.4	3.1	13.8	6.1	3.1	13.0	2.7			0.8		54.7
9 M SOLID	0.8				100.9	38.2		6.1		3.1	4.2	8.4	161.7

M = CUBIC METERS L = LITERS K = KILOGRAMS

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INEL INDUSTRIAL WASTE MANAGEMENT INFORMATION SYSTEM

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CPP WATER USAGE AND DISPOSAL SUMMARY
FOR JANUARY THROUGH DECEMBER 1983

RPT 147-I
CPP

(ALL VOLUMES = NEAREST THOUSAND LITERS)

WELL OR BUILDING NO. / SEWAGE BUILDING NO	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS & AVERAGES
WATER DATA													
WATER PUMPED (L)	159,361	150,276	139,299	154,440	178,666	214,248	191,953	200,999	183,209	185,101	174,881	162,389	2,094,822
WATER DISPOSAL													
AIR (L)													
SURFACE (L) *													
SUBSURFACE (L)	155,197	145,961	135,703	150,655	175,259	211,220	189,265	198,274	180,862	183,019	172,610	159,740	2,057,763
SEWAGE DATA													
BUILD VOL. (L)	4,088	4,315	3,505	3,592	3,248	3,021	2,688	2,593	1,912	2,048	2,105	2,536	35,650
BIOCHEMICAL OXYGEN DEMAND (BOD)													
RAW CONC. (MG/L)	77.5	79.0	60.0	57.0	82.0	115.0	144.0	126.0	157.5	219.0	100.0	129.0	112.2
FINAL CONC. (MG/L)	2.5	2.8	3.4	4.0	11.2	22.8	13.2	19.8	18.0	18.0	3.3	3.0	10.2
% REMOVED	96.8	96.5	94.3	93.0	86.3	80.2	90.8	84.3	88.6	91.8	96.7	97.7	90.9
DISSOLVED OXYGEN (DO)													
RAW CONC. (MG/L)	0.6	0.3	0.4	0.4	0.3	0.5	0.7	0.5	0.5	0.3	1.5	1.1	0.6
FINAL CONC. (MG/L)	7.2	6.3	6.4	13.2	13.8	6.4	5.8	4.9	5.9	5.7	4.1	4.4	7.0
INCREASED FACTOR	11.0	20.0	15.0	32.0	45.0	11.8	7.3	8.8	10.8	18.0	1.7	3.0	10.7
SETTLEABLE SOLIDS (SS)													
RAW CONC. (ML/L)													
FINAL CONC. (ML/L)													
% REMOVED													
PH FINAL	7.6	7.4	7.5	9.1	9.9	9.4	8.3	8.7	8.8	7.3	7.4	7.3	8.2
TOTAL SEWAGE VOL. (L)	4,088	4,315	3,505	3,592	3,248	3,021	2,688	2,593	1,912	2,048	2,105	2,536	35,650
TOTAL WATER DISPOSED (L)	159,285	150,276	139,208	154,247	178,507	214,240	191,953	200,867	182,773	185,067	174,714	162,276	2,093,413
ACCOUNTABILITY (%)	100.0	100.0	99.9	99.9	99.9	100.0	100.0	99.9	99.8	100.0	99.9	99.9	99.9

NOTE: "*" IN COLUMNS INDICATE A PORTION OF VOLUME IS ESTIMATED

SCHED. NO. P68PM0C9-C

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CPP FUEL OIL USAGE AND STACK EFFLUENTS SUMMARY
FOR JANUARY THROUGH DECEMBER 1983

RPT 148-I
CPP

(ALL VALUES = NEAREST THOUSAND)

FUEL OIL TYPE EFFLUENTS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS
TYPE 5													
VOLUME (LITERS)	787	666	647	617	583	351	345	316	329	547	602	1,003	6,793
SO2 (KGS)	20	17	17	16	15	9	9	8	8	14	15	26	174
NOX (KGS)													
PARTICULATES (KGS)													
GRAND TOTALS													
SO2 (KGS)	20	17	17	16	15	9	9	8	8	14	15	26	174
NOX (KGS)													
PARTICULATES (KGS)													

SCHED. NO. P68PM007-B

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UNITED STATES DEPARTMENT OF ENERGY
INEL INDUSTRIAL WASTE MANAGEMENT INFORMATION SYSTEM

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LOF LIQUID DISPOSED SUBSTANCES SUMMARY
FOR JANUARY THROUGH DECEMBER 1983

RPT 165-I
LOF-B

AREA GRAND TOTALS SUBSTANCE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL TOTALS
BORON													
WEIGHT (KGS)	248	96	181		198	70	148	174	71	147	36		1,370
CHLORIDE ION													
WEIGHT (KGS)	275	275	153	96	193	193	193	96	578	193	193	165	2,642
PHOSPHATE ION													
WEIGHT (KGS)	0	1	1	1		0	1		0	0	0	2	6
SODIUM ION													
WEIGHT (KGS)	394	416	224	161	151	419	170	160	650	322	185	189	3,440
SULFATE ION													
WEIGHT (KGS)	228	235	98	98	59	1,567	98	98	274	196	59	78	3,088
SULFITE ION													
WEIGHT (KGS)	1	4	2	1		1	3		3	2	2	4	22

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LOF LIQUID DISPOSED SUBSTANCES SUMMARY
FOR JANUARY THROUGH DECEMBER 1983

RPT 165-I
LOF-B

RELEASE POINT DESCRIPTION / SUBSTANCE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL TOT & AVE
LOFT DISPOSAL POND SURFACE													
VOLUME (1000 L)	22,973	53,221	29,583	9,584	15,171	77,447	66,962	4,959	47,619	20,191	46,105	12,219	406,435
PH													
CHLORIDE ION													
CNC. (MG/L)	11.98	5.17	6.43	10.05	12.70	2.49	2.88	19.43	12.14	9.54	4.18	13.51	6.50
WEIGHT (KGS)	275	275	193	96	193	193	193	96	578	193	193	165	2,642
PHOSPHATE ION													
CNC. (MG/L)	0.02	0.01	0.03	0.06		0.00	0.01		0.01	0.01	0.01	0.13	0.01
WEIGHT (KGS)	0	1	1	1		0	1		0	0	0	2	6
SODIUM ION													
CNC. (MG/L)	17.16	7.80	7.48	16.78	9.95	5.41	2.53	32.31	13.65	15.93	4.02	15.45	8.46
WEIGHT (KGS)	394	416	224	161	151	419	170	160	650	322	185	189	3,440
SULFATE ION													
CNC. (MG/L)	9.95	4.42	3.27	10.22	3.88	20.23	1.46	19.75	5.76	9.70	1.27	6.41	7.60
WEIGHT (KGS)	228	235	98	98	59	1,567	98	98	274	196	59	78	3,088
SULFITE ION													
CNC. (MG/L)	0.03	0.08	0.06	0.06		0.01	0.04		0.06	0.10	0.04	0.37	0.05
WEIGHT (KGS)	1	4	2	1		1	3		3	2	2	4	22
LOFT POND-SEWAGE SURFACE													
VOLUME (1000 L)												83	83
PH													
LOFT SEPTIC TANK SUBSURFACE													
VOLUME (1000 L)	170	170	170	170	170	170	170	170	170	170	170	87	1,961
PH													

NOTE: UNDERLINE = CALCULATED CONCENTRATION BASED UPON CHEMICAL USAGE

SCHED. NO. P68PM007-B

IDAHO OPERATIONS OFFICE
UNITED STATES DEPARTMENT OF ENERGY
INEL INDUSTRIAL WASTE MANAGEMENT INFORMATION SYSTEM

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LOF LIQUID DISPOSED SUBSTANCES SUMMARY
FOR JANUARY THROUGH DECEMBER 1983

RPT 165-I
LOF-B

RELEASE POINT DESCRIPTION / SUBSTANCE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL TOT & AVE
TAN DISPOSAL POND SURFACE													
VOLUME (1000 L)	250	64	134		107	95	62	134	53	146	34		1,081
PH													
BORON CNC. (MG/L)	989.89	1494.54	1350.00	1852.00	736.00	2372.00	1298.00	1349.00	1004.00	1040.00			1266.45
WEIGHT (KGS)	248	96	181	198	70	148	174	71	147	36			1,370

SCHED. NO. P68PM005-C

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UNITED STATES DEPARTMENT OF ENERGY
INEL INDUSTRIAL WASTE MANAGEMENT INFORMATION SYSTEM

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LOF WATER USAGE AND DISPOSAL SUMMARY
FOR JANUARY THROUGH DECEMBER 1983

RPT 167-I
LOF

(ALL VOLUMES = NEAREST THOUSAND LITERS)

WELL OR BUILDING NO. / SEWAGE BUILDING NO	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS & AVERAGES
WATER DATA													
WATER PUMPED (L)													
L01 WATER PUMPED (L)	2,577	3,736	13,593	8,918	1,628	38,686	45,802	1,589	13,082		5,935		135,547
L02 WATER PUMPED (L)	23,208	70,104	17,169	9,141	18,775	45,499	25,956	3,740	46,029	31,323	41,146	13,775	345,885
WATER PUMPED (L)	25,785	73,840	30,762	18,060	20,403	84,185	71,758	5,329	59,111	31,323	47,082	13,775	481,432
WATER DISPOSAL													
AIR (L)													
SURFACE (L)	23,223	53,259	30,120	9,584	15,277	77,523	67,038	5,095	47,695	20,338	46,143	12,219	407,513
SUBSURFACE (L)													
SEWAGE DATA													
736 BUILD VOL. (L)	170	170	170	170	170	170	170	170	170	170	170	87	1,961
BIOCHEMICAL OXYGEN DEMAND (BOD)													
RAW CONC. (MG/L)													
FINAL CONC. (MG/L)													
% REMOVED													
DISSOLVED OXYGEN (DO)													
RAW CONC. (MG/L)													
FINAL CONC. (MG/L)													
INCREASED FACTOR													
SETTLEABLE SOLIDS (SS)													
RAW CONC. (ML/L)													
FINAL CONC. (ML/L)													
% REMOVED													
PH FINAL													
TOTAL SEWAGE VOL. (L)	170	170	170	170	170	170	170	170	170	170	170	87	1,961
TOTAL WATER DISPOSED (L)	23,393	53,430	30,290	9,755	15,448	77,693	67,208	5,265	47,865	20,509	46,313	12,306	409,474
ACCOUNTABILITY (%)	90.7	72.4	98.4	54.0	75.7	92.3	93.7	98.8	81.0	65.5	98.4	89.3	85.1

SCHED. NO. P68PM005-C

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UNITED STATES DEPARTMENT OF ENERGY
INEL INDUSTRIAL WASTE MANAGEMENT INFORMATION SYSTEM

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LOF FUEL OIL USAGE AND STACK EFFLUENTS SUMMARY
FOR JANUARY THROUGH DECEMBER 1983

RPT 168-I
LOF

(ALL VALUES = NEAREST THOUSAND)

FUEL OIL TYPE / EFFLUENTS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS
DIESEL													
VOLUME (LITERS)	2	138	2	4		2	2	5			3	1	158
SO2 (KGS)	0	1	0	0		0	0	0			0	0	1
NOX (KGS)													
PARTICULATES (KGS)													
TYPE 2													
VOLUME (LITERS)	31	112	44	8		5	30				12	47	288
SO2 (KGS)	0	1	0	0		0	0				0	0	2
NOX (KGS)													
PARTICULATES (KGS)													
GRAND TOTALS													
SO2 (KGS)	0	2	0	0		0	0	0			0	0	3
NOX (KGS)													
PARTICULATES (KGS)													

SCHED. NO. P68PM006-B

IDAHO OPERATIONS OFFICE
UNITED STATES DEPARTMENT OF ENERGY
INEL INDUSTRIAL WASTE MANAGEMENT INFORMATION SYSTEM

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MHD INDUSTRIAL WASTE SUMMARY
FOR JANUARY THROUGH DECEMBER 1983

RPT 176-I
MHD

DISPOSAL OR STORAGE LOCATION / TYPE OF WASTE	VOLUME OR WEIGHT BY MONTH JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS
BUT LANDFILL													
DISPOSED WASTE													
1 M SOLID	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	880.9
GRAND TOTALS													
DISPOSED WASTE													
1 M SOLID	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	880.9

M = CUBIC METERS L = LITERS K = KILOGRAMS

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UNITED STATES DEPARTMENT OF ENERGY
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MHD WATER USAGE AND DISPOSAL SUMMARY
FOR JANUARY THROUGH DECEMBER 1983

RPT 177-1
MHD

(ALL VOLUMES = NEAREST THOUSAND LITERS)

WELL OR BUILDING NO. / SEWAGE BUILDING NO	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS & AVERAGES
WATER DATA													
BUT WATER PUMPED (L)	1,306	992	973	656	812	332	2,708	2,544	2,348	826	786	2,924	17,208
WATER DISPOSAL													
AIR (L)	15	15	15	19	22	20	29	30	32	117	33	19	363
SURFACE (L)													
SUBSURFACE (L)	1,291	977	958	637	790	313	2,680	2,514	2,316	709	754	2,905	16,842
SEWAGE DATA													
BUILD VOL. (L)													
BIOCHEMICAL OXYGEN DEMAND (BOD)													
RAW CONC. (MG/L)													
FINAL CONC. (MG/L)													
% REMOVED													
DISSOLVED OXYGEN (DO)													
RAW CONC. (MG/L)													
FINAL CONC. (MG/L)													
INCREASED FACTOR													
SETTLEABLE SOLIDS (SS)													
RAW CONC. (ML/L)													
FINAL CONC. (ML/L)													
% REMOVED													
PH FINAL													
TOTAL SEWAGE VOL. (L)													
TOTAL WATER DISPOSED (L)	1,306	991	972	656	812	332	2,708	2,543	2,348	826	786	2,924	17,205
ACCOUNTABILITY (%)	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9	100.0	100.0	100.0

NOTE: "**" IN COLUMNS INDICATE A PORTION OF VOLUME IS ESTIMATED

SCHED. NO. P68PM009-C

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UNITED STATES DEPARTMENT OF ENERGY
INEL INDUSTRIAL WASTE MANAGEMENT INFORMATION SYSTEM

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MHD FUEL OIL USAGE AND STACK EFFLUENTS SUMMARY
FOR JANUARY THROUGH DECEMBER 1983

RPT 178-I
MHD

(ALL VALUES = NEAREST THOUSAND)

FUEL OIL TYPE EFFLUENTS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS
TYPE 2													
VOLUME (LITERS)	31	23	28	56	32	40	58	41	9	35	74	91	518
SO2 (KGS)	0	0	0	0	C	0	0	0	0	0	0	1	3
NOX (KGS)													
PARTICULATES (KGS)													
GRAND TOTALS													
SO2 (KGS)	0	0	0	0	0	0	0	0	0	0	0	1	3
NOX (KGS)													
PARTICULATES (KGS)													

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UNITED STATES DEPARTMENT OF ENERGY
INEL INDUSTRIAL WASTE MANAGEMENT INFORMATION SYSTEM

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NRF AIRBORNE DISPOSED SUBSTANCES SUMMARY
FOR JANUARY THROUGH DECEMBER 1983

RPT 1R4-1
NRF-A

RELEASE POINT DESCRIPTION SUBSTANCE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL TOT & AVE
COOLING TOWERS													
VOLUME (1000 CM)	162,560	86,358	186,369	250,250	95,793	36,730	191,974	152,792	81,640	80,364	79,198	110,001	1,514,029

NOTE: UNDERLINE = CALCULATED CONCENTRATION

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NRF LIQUID DISPOSED SUBSTANCES SUMMARY
FOR JANUARY THROUGH DECEMBER 1983

RPT 185-I
NRF-B

AREA GRAND TOTALS SUBSTANCE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL TOTALS
CALCIUM ION WEIGHT (KGS)	169	142	90	150	204	140	143	228	420	185	244	165	2,280
CHLORIDE ION WEIGHT (KGS)	2,183	1,855	3,137	1,573	1,003	5,402	1,855	3,528	2,054	5,726	4,877	3,922	37,115
HYPOCHLORITE ION WEIGHT (KGS)	435	365	231	385	523	360	367	585	1,078	474	628	424	5,855
PHOSPHATE ION WEIGHT (KGS)	77	66	59	17	31	302	104	74	75	66	60	69	999
PHOSPHONATE WEIGHT (KGS)	91	48	57	50	66	77	102	114	74	68	68	71	886
POLYMETHACRYLATE WEIGHT (KGS)	61	25	30	33	44	51	68	76	49	45	45	47	575
POLYPHOSPHATE WEIGHT (KGS)	212	111	132	117	154	180	237	265	173	159	159	166	2,064
SODIUM ION WEIGHT (KGS)	2,659	1,203	1,708	1,056	728	3,503	1,203	830	1,443	3,132	2,702	2,618	22,785
SULFATE ION WEIGHT (KGS)	9,925	3,761	4,745	2,164	4,227	21,998	7,554	13,369	4,655	4,749	5,157	9,705	92,010
SULFONATE WEIGHT (KGS)	61	32	38	33	44	51	68	76	49	45	45	47	590

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NRF LIQUID DISPOSED SUBSTANCES SUMMARY
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RPT 185-I
NRF-B

RELEASE POINT DESCRIPTION / SUBSTANCE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL TOT & AVE
SEWAGE POND	SURFACE												
VOLUME (1000 L)	5,201	5,424	6,007	5,129	6,284	11,208	6,284	6,632	5,307	5,871	5,871	5,443	74,661
PH	7.4	7.3	7.7	9.2	9.2		10.9	9.3	10.2		8.8	8.3	8.8
WASTE DITCH	SURFACE												
VOLUME (1000 L)	18,726	18,366	13,347	5,027	8,545	68,552	23,541	27,474	26,005	24,468	27,156	26,467	288,073
PH	6.4	7.4	5.8	6.1	5.5	7.1	7.1	8.0	7.0	10.2	8.4	3.1	6.8
CALCIUM ION													
CNC. (MG/L)	9.04	7.74	6.73	29.86	22.78	2.05	6.08	8.29	16.14	7.54	9.00	6.24	7.92
WEIGHT (KGS)	169	142	90	150	204	140	143	228	420	185	244	165	2,280
CHLORIDE ION													
CNC. (MG/L)	116.60	101.00	235.00	313.00	112.10	78.80	78.80	128.40	79.00	234.00	179.60	148.20	128.84
WEIGHT (KGS)	2,183	1,855	3,137	1,573	1,003	5,402	1,855	3,528	2,054	5,726	4,877	3,922	37,115
HYPOCHLORITE ION													
CNC. (MG/L)	23.22	19.86	17.27	76.68	58.51	5.25	15.60	21.30	41.45	19.37	23.12	16.02	20.32
WEIGHT (KGS)	435	365	231	385	523	360	367	585	1,078	474	628	424	5,855
PHOSPHATE ION													
CNC. (MG/L)	4.10	3.60	4.40	3.30	3.50	4.40	4.40	2.70	2.90	2.70	2.20	2.60	3.47
WEIGHT (KGS)	77	66	59	17	31	302	104	74	75	66	60	69	999
PHOSPHONATE													
CNC. (MG/L)	4.87	2.60	4.24	9.97	7.37	1.13	4.32	4.13	2.86	2.79	2.51	2.69	3.08
WEIGHT (KGS)	91	48	57	50	66	77	102	114	74	68	68	71	886
POLYMETHACRYLATE													
CNC. (MG/L)	3.24	1.37	2.24	6.63	4.90	0.75	2.88	2.75	1.90	1.85	1.67	1.79	2.00
WEIGHT (KGS)	61	25	30	33	44	51	68	76	49	45	45	47	575
POLYPHOSPHATE													
CNC. (MG/L)	11.34	6.06	9.89	23.22	17.17	2.63	10.07	9.63	6.66	6.49	5.85	6.26	7.17
WEIGHT (KGS)	212	111	132	117	154	180	237	265	173	159	159	166	2,064

NOTE: UNDERLINE = CALCULATED CONCENTRATION BASED UPON CHEMICAL USAGE

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RPT 185-I
NRF-B

RELEASE POINT DESCRIPTION SUBSTANCE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL TOT & AVE
SODIUM ION													
CNC. (MG/L)	142.00	65.50	128.00	210.00	81.40	51.10	51.10	30.20	55.50	128.00	99.50	98.90	79.09
WEIGHT (KGS)	2,659	1,203	1,708	1,056	728	3,503	1,203	830	1,443	3,132	2,702	2,618	22,785
SULFATE ION													
CNC. (MG/L)	530.00	204.80	355.50	430.50	472.60	320.90	320.90	486.60	179.00	194.10	189.90	366.70	319.40
WEIGHT (KGS)	9,925	3,761	4,745	2,164	4,227	21,998	7,554	13,369	4,655	4,749	5,157	9,705	92,010
SULFONATE													
CNC. (MG/L)	3.24	1.73	2.82	6.63	4.90	0.75	2.88	2.75	1.90	1.85	1.67	1.79	2.05
WEIGHT (KGS)	61	32	38	33	44	51	68	76	49	45	45	47	590

NOTE: UNDERLINE = CALCULATED CONCENTRATION BASED UPON CHEMICAL USAGE

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NRF INDUSTRIAL WASTE SUMMARY
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RPT 186-I
NRF

DISPOSAL OR STORAGE LOCATION / TYPE OF WASTE	VOLUME OR WEIGHT BY MONTH JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS
CFA HMCA													
DISPOSED WASTE													
8 KG SOLID	281.3												281.3
PHOSPHORIC ACID 80 PERCENT													
8 L LIQUID	189.3												189.3
FORMALDEHYDE SOLUTION													
8 L LIQUID	757.1												757.1
MERCURIC NITRATE SOLUTION													
8 L LIQUID	1324.9												1,324.9
PHOTO LAB CHEMICAL SOLUTION													
8 L LIQUID	3217.5												3,217.5
POTASSIUM CHROMATE SOLUTION													
8 L LIQUID	189.3												189.3
SILVER NITRATE SOLUTION													
STORED WASTE													
8 KG SOLID										680.4			680.4
AMMONIUM CITRATE													
8 KG SOLID										1020.6			1,020.6
OILY GRAVEL WASTE													
8 KG SOLID										680.4			680.4
POLYCHLORINATED BIPHENYLS WASTE													
8 KG SOLID										362.9			362.9
POTASSIUM CHROMATE WASTE													
8 KG SOLID										680.4			680.4
THIOUREA WASTE													
8 KG SOLID						90.7							90.7
WASTE SODIUM BICARBONATE													
8 L LIQUID										378.5			378.5
AMMONIUM VANADATE SOLUTION WASTE													
8 L LIQUID										378.5			378.5
FORMALDEHYDE SOLUTION WASTE													
8 L LIQUID										34.1			34.1
HYDROCHLORIC ACID WASTE													
8 L LIQUID										189.3			189.3
MERCURIC NITRATE SOLUTION WASTE													
8 L LIQUID										2839.0			2,839.0
OILY SLUDGE AND WATER MIXTURE WASTE													
8 L LIQUID										567.8			567.8
POTASSIUM CHROMATE SOLUTION WASTE													
8 L LIQUID										189.3			189.3
SULFURIC ACID SOLUTION WASTE													
8 L LIQUID						378.5							378.5
WASTE FORMALDEHYDE SOLUTION													
8 L LIQUID						946.3							946.3
WASTE MERCURIC NITRATE AND FORMALDEH													

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NRF INDUSTRIAL WASTE SUMMARY
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DISPOSAL OR STORAGE LOCATION / TYPE OF WASTE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS
	VOLUME OR WEIGHT BY MONTH												
STORED WASTE													
8 L LIQUID						1514.1							1,514.1
WASTE MERCURIC NITRATE SOLUTION													
8 L LIQUID						946.3							946.3
WASTE MIXED PHOTOGRAPHIC CHEMICALS													
8 L LIQUID						4920.9							4,920.9
WASTE POTASSIUM CHROMATE SOLUTION													
8 L LIQUID						378.5							378.5
WASTE SULFURIC ACID SOLUTION													
CFA LANDFILL													
DISPOSED WASTE													
1 M SOLID	312.9	301.7	462.6	307.4	387.7	305.9	350.2	357.1	452.9	378.4	479.6	395.3	4,491.6
2 M SOLID	97.9	85.6	97.9	57.9	88.7	114.7	97.9	18.4	134.6	110.1	97.9	107.8	1,149.3
3 M SOLID	89.1	10.7	83.0	29.1	10.7	58.1	61.2	66.5	143.0	71.1	42.8	106.3	771.5
4 M SOLID		8.4	6.9	3.8	8.4	0.8	14.9	4.6	13.0	17.6	12.2		90.6
5 M SOLID			113.2		6.1								119.3
9 M SOLID											6.1	2.3	8.4
ASBESTOS													
9 M SOLID			2.3				4.6	4.6	31.4	100.9	45.9		189.6
ASPHALT													
9 M SOLID			7.3	24.5	13.8			8.4	106.3		2.3		162.5
DIRT AND GRAVEL													
9 M SOLID									8.4				8.4
FIBERGLAS INSULATION													
9 M SOLID		4.6	26.0										30.6
NON-ASBESTOS INSULATION													
9 M SOLID							33.6	57.3	6.1				97.1
ROOFING MATERIAL													
CFA OIL DEPOT													
DISPOSED WASTE													
6 L LIQUID								5829.4					5,829.4
OIL													
STORED WASTE													
6 L LIQUID	3028.2	3028.2		4788.4	5621.2	5110.2				6662.1	3406.8		31,645.1
OIL													
CFA SCRAPYARD													
DISPOSED WASTE													
5 M SOLID	27.5	24.5		42.8				24.5				30.6	149.9
9 M SOLID	18.7												18.7
EMPTY DRUMS													
STORED WASTE													
5 M SOLID					29.1	99.4	120.0		13.0	94.1	46.6		402.2

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NRF INDUSTRIAL WASTE SUMMARY
FOR JANUARY THROUGH DECEMBER 1983

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DISPOSAL OR STORAGE LOCATION / TYPE OF WASTE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS
	VOLUME OR WEIGHT BY MONTH												
STORED WASTE													
9 M SOLID			6.1										6.1
EMPTY DRUMS													
9 M SOLID									43.0				43.0
WASTE WOODEN RAILROAD TIES													
GRAND TOTALS													
DISPOSED WASTE													
1 M SOLID	312.9	301.7	462.6	307.4	387.7	305.9	350.2	357.1	452.9	378.4	479.6	395.3	4,491.6
2 M SOLID	97.9	85.6	97.9	97.9	88.7	114.7	97.9	18.4	134.6	110.1	97.9	107.8	1,149.3
3 M SOLID	89.1	10.7	83.0	29.1	10.7	58.1	61.2	66.5	143.0	71.1	42.8	106.3	771.5
4 M SOLID		8.4	6.9	3.8	8.4	0.8	14.9	4.6	13.0	17.6	12.2		90.6
5 M SOLID	27.5	24.5	113.2	42.8	6.1			24.5				30.6	269.2
6 L LIQUID								5829.4					5,829.4
8 KG SOLID	281.3												281.3
8 L LIQUID	5677.9												5,677.9
9 M SOLID	18.7	4.6	35.6	24.5	13.8		38.2	70.3	152.2	100.9	54.3	2.3	515.4
STORED WASTE													
5 M SOLID					29.1	99.4	120.0		13.0	94.1	46.6		402.2
6 L LIQUID	3028.2	3028.2		4788.4	5621.2	5110.2				6662.1	3406.8		31,645.1
8 KG SOLID						90.7				3424.6			3,515.3
8 L LIQUID						9084.7				4576.4			13,661.1
9 M SOLID			6.1						43.0				49.2

M = CUBIC METERS L = LITERS K = KILOGRAMS

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NRF WATER USAGE AND DISPOSAL SUMMARY
FOR JANUARY THROUGH DECEMBER 1983

RPT 187-1
NRF

(ALL VOLUMES = NEAREST THOUSAND LITERS)

WELL OR BUILDING NO. / SEWAGE BUILDING NO	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS & AVERAGES
WATER DATA													
1 WATER PUMPED (L)	19,824	26,713	30,089	22,625	32,959	17,325	47,543	27,001	37,278	28,382	34,064	50,307	374,108
2 WATER PUMPED (L)	8	11	11	496	8	4	182	144		4	5	4	876
3 WATER PUMPED (L)	127,262	62,495	130,517	176,698	73,776	109,206	140,245	141,684	74,835	81,800	58,975	64,956	1,242,448
WATER PUMPED (L)	147,093	89,220	160,618	199,818	106,742	126,535	187,970	168,828	112,113	110,186	93,044	115,266	1,617,432
WATER DISPOSAL													
AIR (L) *	110,871	58,899	127,110	170,679	65,334	25,051	130,934	104,209	55,682	54,811	54,016	75,025	1,032,621
SURFACE (L) *	18,726	18,366	13,347	5,027	27,871	87,478	42,433	46,370	44,932	43,380	27,156	26,467	401,552
SUBSURFACE (L)													
SEWAGE DATA													
722 BUILD VOL. (L)	5,201	5,424	6,007	5,129	6,284	11,208	7,109	6,632	5,307	5,871	5,871	5,443	75,486
BIOCHEMICAL OXYGEN DEMAND (BOD)													
RAW CONC. (MG/L)	110.0	160.0	80.0	40.0	40.0	20.0	50.0	125.0	12.0	50.0	20.0	55.0	63.5
FINAL CONC. (MG/L)													
% REMOVED													
DISSOLVED OXYGEN (DO)													
RAW CONC. (MG/L)	4.0	0.4	9.6	14.3	14.3	17.1	14.7	3.2	20.0	13.0	3.9	1.0	9.6
FINAL CONC. (MG/L)													
INCREASED FACTOR													
SETTLEABLE SOLIDS (SS)													
RAW CONC. (ML/L)													
FINAL CONC. (ML/L)													
% REMOVED													
PH FINAL	7.4	7.3	7.7	9.2	9.2	9.6	9.4	9.3	9.7	9.7	8.8	8.3	8.8
TOTAL SEWAGE VOL. (L)	5,201	5,424	6,007	5,129	6,284	11,208	7,109	6,632	5,307	5,871	5,871	5,443	75,486
TOTAL WATER DISPOSED (L)	134,798	82,690	146,465	180,835	99,489	123,738	180,476	157,211	105,920	104,062	87,043	106,935	1,509,659
ACCOUNTABILITY (%)	91.6	92.7	91.2	90.5	93.2	97.8	96.0	93.1	94.5	94.4	93.6	92.8	93.3

NOTE: "*" IN COLUMNS INDICATE A TION OF VOLUME IS ESTIMATED

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NRF FUEL OIL USAGE AND STACK EFFLUENTS SUMMARY
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(ALL VALUES = NEAREST THOUSAND)

FUEL OIL TYPE EFFLUENTS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS
TYPE 5													
VOLUME (LITERS)	483	408	353	269	129	24	96	18	47	182	370	623	3,001
SO2 (KGS)	14	11	16	10	7	1	3	1	3	5	10	16	96
NOX (KGS)	2	1	1	1	0	0	0	0	0	1	1	2	10
PARTICULATES (KGS)	1	1	1	1	0	0	0	0	0	0	1	1	6
GRAND TOTALS													
SO2 (KGS)	14	11	16	10	7	1	3	1	3	5	10	16	96
NOX (KGS)	2	1	1	1	0	0	0	0	0	1	1	2	10
PARTICULATES (KGS)	1	1	1	1	0	0	0	0	0	0	1	1	6

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PBF LIQUID DISPOSED SUBSTANCES SUMMARY
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PBF-B

AREA GRAND TOTALS SUBSTANCE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL TOTALS
BETZ 45 WEIGHT (KGS)	13			13		12		18			35		92
CHLORIDE ION WEIGHT (KGS)				0	0	0	0	0	0		0		1
CHROMATE ION WEIGHT (KGS)	0			0		77	1	0	6				85
HPA WEIGHT (KGS)	0			0		0		0			0		1
HYDROXYCARBONS WEIGHT (KGS)				2	0	1	1	2	1		1		7
N-HYDROCARBON WEIGHT (KGS)				8	2	4	4	9	4		4		35
POLYHYDROXYCARBON WEIGHT (KGS)	0			0		0		0			0		1
SODIUM ION WEIGHT (KGS)	66	33	65	65		162	0	33	133	47	47		651
SULFATE ION WEIGHT (KGS)	80	40	80	80		160		83	187	111	111		931

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PBF LIQUID DISPOSED SUBSTANCES SUMMARY
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RPT 195-I
PBF-8

RELEASE POINT DESCRIPTION / SUBSTANCE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL TOT & AVE
EVAPORATION POND	SURFACE												
VOLUME (1000 L)	38	189	38	681	151	379	1,514	208	386	4	4		3,592
PH													
BETZ 45													
CNC. (MG/L)	347.51			19.31		32.35		87.15			9226.86		25.51
WEIGHT (KGS)	13			13		12		18			35		92
CHLORIDE ION													
CNC. (MG/L)				0.34	0.38	0.34	0.09	1.24	0.30		33.55		0.29
WEIGHT (KGS)				0	0	0	0	0	0		0		1
CHROMATE ION													
CNC. (MG/L)	8.51			0.48		204.19	0.43	1.55	16.68				23.76
WEIGHT (KGS)	0			0		77	1	0	6				85
HPA													
CNC. (MG/L)	5.99			0.33		0.60		1.09			59.91		0.32
WEIGHT (KGS)	0			0		0		0			0		1
HYDROXYCARBONS													
CNC. (MG/L)				2.40	2.70	2.46	0.61	8.82	2.11		239.66		2.08
WEIGHT (KGS)				2	0	1	1	2	1		1		7
N-HYDROCARBON													
CNC. (MG/L)				11.17	12.56	11.45	2.86	41.12	9.85		1116.81		9.68
WEIGHT (KGS)				8	2	4	4	9	4		4		35
POLYHYDROXYCARBON													
CNC. (MG/L)	3.60			0.20		0.36		0.65			35.95		0.19
WEIGHT (KGS)	0			0		0		0			0		1
SODIUM ION													
CNC. (MG/L)	1734.77	172.25	1722.54	95.99		428.10	0.17	157.57	344.57	12402.34	12420.94		181.22
WEIGHT (KGS)	66	33	65	65		162	0	33	133	47	47		651

NOTE: UNDERLINE = CALCULATED CONCENTRATION BASED UPON CHEMICAL USAGE

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PBF LIQUID DISPOSED SUBSTANCES SUMMARY
FOR JANUARY THROUGH DECEMBER 1983

RPT 195-I
PBF-B

RELEASE POINT DESCRIPTION SUBSTANCE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL TOT & AVE
SULFATE ION CNC. (MG/L)	2111.63	211.16	2111.63	117.31		422.33		396.73	483.05	29328.24	29328.24		259.10
WEIGHT (KGS)	80	40	80	80		160		83	187	111	111		931

NOTE: UNDERLINE = CALCULATED CONCENTRATION BASED UPON CHEMICAL USAGE

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PBF INDUSTRIAL WASTE SUMMARY
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DISPOSAL OR STORAGE LOCATION / TYPE OF WASTE	VOLUME OR WEIGHT BY MONTH JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS
CFA LANDFILL													
DISPOSED WASTE													
1 M SOLID	21.4								53.5				74.9
1 M SOLID											7.6		7.6
DIRT AND SNOW													
1 M SOLID		37.5	69.6	68.8	6.1	30.6	16.8	26.8		4.6	16.8	4.6	282.2
TRASH													
3 M SOLID	3.1												3.1
3 M SOLID			0.4			4.6		4.6					9.6
WOOD AND SCRAP LUMBER													
4 M SOLID			15.3										15.3
MASONRY AND CONCRETE													
9 M SOLID							0.4						0.4
ASPHALT													
9 M SOLID									9.2				9.2
OLD ASPHALT													
GRAND TOTALS													
DISPOSED WASTE													
1 M SOLID	21.4	37.5	69.6	68.8	6.1	30.6	16.8	26.8	53.5	4.6	24.5	4.6	364.7
3 M SOLID	3.1		0.4			4.6		4.6					12.6
4 M SOLID			15.3										15.3
9 M SOLID							0.4		9.2				9.6

M = CUBIC METERS L = LITERS K = KILOGRAMS

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UNITED STATES DEPARTMENT OF ENERGY
INEL INDUSTRIAL WASTE MANAGEMENT INFORMATION SYSTEM

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PBF WATER USAGE AND DISPOSAL SUMMARY
FOR JANUARY THROUGH DECEMBER 1983

RPT 197-I
PBF

(ALL VOLUMES = NEAREST THOUSAND LITERS)

WELL OR BUILDING NO. / SEWAGE BUILDING NO	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS & AVERAGES
WATER DATA													
1 WATER PUMPED (L)	3,956	2,421	2,670	10,357	7,677	2,250	617	5,727	2,718	2,712	2,853	560	44,517
2 WATER PUMPED (L)	2,697	2,151	2,851	1,618	430	1,988	6,011	9,217	4,758	2,838	3,334	1,017	38,911
WATER PUMPED (L)	6,652	4,572	5,521	11,975	8,106	4,239	6,628	14,944	7,476	5,550	6,187	1,577	83,428
WATER DISPOSAL													
AIR (L)				2,389				2,490	36				4,915
SURFACE (L) *	4,088	2,151	3,018	4,164	3,446	1,968	2,336	7,003	4,580	3,089	3,763	397	40,003
SUBSURFACE (L) *	2,108	2,102	2,095	4,656	4,240	2,014	3,323	4,826	2,036	1,931	2,025	882	32,239
SEWAGE DATA													
619 BUILD VOL. (L) *	180	180	180	180	180	180	180	180	180	180	180	180	2,159
BIOCHEMICAL OXYGEN DEMAND (BOD)													
RAW CONC. (MG/L)													
FINAL CONC. (MG/L)													
% REMOVED													
DISSOLVED OXYGEN (DO)													
RAW CONC. (MG/L)													
FINAL CONC. (MG/L)													
INCREASED FACTOR													
SETTLEABLE SOLIDS (SS)													
RAW CONC. (ML/L)													
FINAL CONC. (ML/L)													
% REMOVED													
PH FINAL													

NOTE: "*" IN COLUMNS INDICATE A PORTION OF VOLUME IS ESTIMATED

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PBF WATER USAGE AND DISPOSAL SUMMARY
FOR JANUARY THROUGH DECEMBER 1983

RPT 197-I
PBF

(ALL VOLUMES = NEAREST THOUSAND LITERS)

WELL OR BUILDING NO. / SEWAGE BUILDING NO	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS & AVERAGES
SEWAGE DATA													
620 BUILD VOL. (L) *	48	48	48	48	48	48	48	48	48	48	48	48	580
BIOCHEMICAL OXYGEN DEMAND (BOD)													
RAW CONC. (MG/L)													
FINAL CONC. (MG/L)													
% REMOVED													
DISSOLVED OXYGEN (DO)													
RAW CONC. (MG/L)													
FINAL CONC. (MG/L)													
INCREASED FACTOR													
SETTLEABLE SOLIDS (SS)													
RAW CONC. (ML/L)													
FINAL CONC. (ML/L)													
% REMOVED													
PH FINAL													
TOTAL SEWAGE VOL. (L)	228	228	228	228	228	228	228	228	228	228	228	228	2,738
TOTAL WATER DISPOSED (L)	6,425	4,482	5,342	11,437	7,914	4,210	5,887	14,547	6,881	5,247	6,016	1,508	79,895
ACCOUNTABILITY (%)	96.6	98.0	96.7	95.5	97.6	99.3	88.8	97.3	92.0	94.5	97.2	95.6	95.8

NOTE: "*" IN COLUMNS INDICATE PORTION OF VOLUME IS ESTIMATED

SCHED. NO. P68PM009-C

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INEL INDUSTRIAL WASTE MANAGEMENT INFORMATION SYSTEM

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PBF FUEL OIL USAGE AND STACK EFFLUENTS SUMMARY
FOR JANUARY THROUGH DECEMBER 1983

RPT 198-I
PBF

(ALL VALUES = NEAREST THOUSAND)

FUEL OIL TYPE / EFFLUENTS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS
DIESEL													
VOLUME (LITERS)	12		0	26			0	18	17	0	9		82
SO2 (KGS)	0		0	0			0	0	0	0	0		0
NOX (KGS)													
PARTICULATES (KGS)													
TYPE 2													
VOLUME (LITERS)	28	25	19	16	3	3	0			8		23	126
SO2 (KGS)	0	0	0	0	0	0	0			0		0	1
NOX (KGS)													
PARTICULATES (KGS)													
GRAND TOTALS													
SO2 (KGS)	0	0	0	0	0	0	0	0	0	0	0	0	1
NOX (KGS)													
PARTICULATES (KGS)													

SCHED. NO. P68PM007-8

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TAN LIQUID DISPOSED SUBSTANCES SUMMARY
FOR JANUARY THROUGH DECEMBER 1983

RPT 225-I
TAN-8

AREA GRAND TOTALS SUBSTANCE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL TOTALS
CHLORIDE ION WEIGHT (KGS)	812	651	715	771	633	771	110	138	220	193	688	908	6,619
PHOSPHATE ION WEIGHT (KGS)	20	19	21	7	8	8			0	3	5	6	98
SODIUM ION WEIGHT (KGS)	544	450	451	518	441	520	71	89	144	135	460	612	4,475
SULFATE ION WEIGHT (KGS)		24	24	24	24	24				12	12	24	168
SULFITE ION WEIGHT (KGS)	13	12	18	12	20	15			1	7	12	18	128

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TAN LIQUID DISPOSED SUBSTANCES SUMMARY
FOR JANUARY THROUGH DECEMBER 1983

RPT 225-1
TAN-8

RELEASE POINT DESCRIPTION / SUBSTANCE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL TOT & AVE
DISPOSAL POND	SURFACE												
VOLUME (1000 L)	3,685	3,498	5,727	4,467	4,084	10,065	6,749	7,703	9,528	5,152	4,978	5,292	70,927
PH													
CHLORIDE ION													
CNC. (MG/L)	220.37	188.82	124.95	172.54	154.99	76.57	16.31	17.86	23.11	37.40	138.24	171.64	93.33
WEIGHT (KGS)	812	661	716	771	633	771	110	138	220	193	688	908	6,619
PHOSPHATE ION													
CNC. (MG/L)	5.52	5.38	3.65	1.52	2.00	0.79			0.05	0.59	1.09	1.20	1.39
WEIGHT (KGS)	20	19	21	7	8	8			0	3	5	6	98
SODIUM ION													
CNC. (MG/L)	147.53	128.76	85.73	115.93	107.92	51.68	10.57	11.58	15.08	26.19	92.32	115.66	63.09
WEIGHT (KGS)	544	450	491	518	441	520	71	89	144	135	460	612	4,475
SULFATE ION													
CNC. (MG/L)		6.85	4.19	5.36	5.87	2.38				2.33	2.41	4.53	2.37
WEIGHT (KGS)		24	24	24	24	24				12	12	24	168
SULFITE ION													
CNC. (MG/L)	3.59	3.38	3.22	2.71	4.93	1.49			0.12	1.34	2.31	3.37	1.81
WEIGHT (KGS)	13	12	18	12	20	15			1	7	12	18	128

NOTE: UNDERLINE = CALCULATED CONCENTRATION BASED UPON CHEMICAL USAGE

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UNITED STATES DEPARTMENT OF ENERGY
INEL INDUSTRIAL WASTE MANAGEMENT INFORMATION SYSTEM

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TAN INDUSTRIAL WASTE SUMMARY
FOR JANUARY THROUGH DECEMBER 1983

RPT 226-I
TAN

DISPOSAL OR STORAGE LOCATION / TYPE OF WASTE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS
	VOLUME OR WEIGHT BY MONTH												
CFA LANDFILL													
DISPOSED WASTE													
1 M SOLID	271.4	164.4	237.0	191.2	239.3	137.6	234.0	252.3	122.3	61.9	169.0	123.1	2,203.7
2 M SOLID	55.1	36.7	42.8	36.7	48.9		42.8	18.4	24.5	12.2	38.2	6.1	362.4
3 M SOLID		3.1			8.4	5.4						4.9	21.7
4 M SOLID				6.1	9.6		3.8	7.3		26.0		3.8	56.6
5 M SOLID		6.1	3.1		3.1	9.2		4.6		3.1	3.1		32.1
9 M SOLID								1.5					1.5
ASPHALT													
GRAND TOTALS													
DISPOSED WASTE													
1 M SOLID	271.4	164.4	237.0	191.2	239.3	137.6	234.0	252.3	122.3	61.9	169.0	123.1	2,203.7
2 M SOLID	55.1	36.7	42.8	36.7	48.9		42.8	18.4	24.5	12.2	38.2	6.1	362.4
3 M SOLID		3.1			8.4	5.4						4.9	21.7
4 M SOLID				6.1	9.6		3.8	7.3		26.0		3.8	56.6
5 M SOLID		6.1	3.1		3.1	9.2		4.6		3.1	3.1		32.1
9 M SOLID								1.5					1.5

M = CUBIC METERS L = LITERS K = KILOGRAMS

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INEL INDUSTRIAL WASTE MANAGEMENT INFORMATION SYSTEM

07/09/84

TAN WATER USAGE AND DISPOSAL SUMMARY
FOR JANUARY THROUGH DECEMBER 1983

RPT 227-I
TAN

(ALL VOLUMES = NEAREST THOUSAND LITERS)

WELL OR BUILDING NO. / SEWAGE BUILDING NO	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS & AVERAGES
WATER DATA													
TF1 WATER PUMPED (L)	264	857	1,465	334	948	1,908	856	603	602	1,216	1,812	917	11,780
TF2 WATER PUMPED (L)	3,420	2,641	4,266	4,134	3,466	8,157	5,894	7,101	8,926	3,937	3,169	4,376	59,487
WATER PUMPED (L)	3,685	3,498	5,731	4,467	4,414	10,065	6,750	7,704	9,528	5,153	4,981	5,293	71,267
WATER DISPOSAL													
AIR (L) *													
SURFACE (L) *	2,124	1,790	4,065	3,003	2,094	6,416	5,405	5,492	7,752	3,631	3,738	4,293	49,803
SUBSURFACE (L) *													
SEWAGE DATA													
623 BUILD VOL. (L) *	1,561	1,709	1,662	1,464	1,991	3,648	1,342	2,209	1,775	1,521	1,240	999	21,119
BIOCHEMICAL OXYGEN DEMAND (BOD)													
RAW CONC. (MG/L)	91.2	267.0	120.4	186.6	265.0	161.0	316.2	135.0	222.5	125.0	90.0	171.0	179.2
FINAL CONC. (MG/L)	4.7	4.2	13.2	1.3	23.2	17.6	17.2	15.0	14.2	10.2	13.5	7.0	11.8
% REMOVED	94.8	98.4	89.0	99.3	91.2	89.1	94.6	88.9	93.6	91.8	85.0	95.9	93.4
DISSOLVED OXYGEN (DO)													
RAW CONC. (MG/L)	2.2	2.8	2.4	1.6	1.2	1.6	1.0	1.0	1.5	2.2	1.5	7.0	2.2
FINAL CONC. (MG/L)	6.0	6.2	56.0	6.0	5.2	4.0	4.7	4.2	4.7	5.2	5.7	5.0	9.4
INCREASED FACTOR	1.7	1.2	22.3	2.8	3.3	1.5	3.7	3.2	2.1	1.4	2.8	*******	3.3
SETTLEABLE SOLIDS (SS)													
RAW CONC. (ML/L)		1.0	1.3	21.6	1.8	1.2	1.6	0.7	1.1	1.8	0.9	2.0	3.2
FINAL CONC. (ML/L)			0.10	0.16	0.20	0.13	0.11	0.11	0.10	0.20	0.50	1.00	0.26
% REMOVED			92.3	99.3	88.9	89.2	93.1	84.3	90.9	88.9	44.4	50.0	91.9
PH FINAL	7.1	7.1	7.3	7.0	7.1	6.9	6.9	6.8	6.8	7.4	7.3	7.0	7.1
TOTAL SEWAGE VOL. (L)	1,561	1,709	1,662	1,464	1,991	3,648	1,342	2,209	1,775	1,521	1,240	999	21,119
TOTAL WATER DISPOSED (L)	3,685	3,498	5,727	4,466	4,084	10,064	6,747	7,701	9,528	5,152	4,978	5,291	70,921
ACCOUNTABILITY (%)	100.0	100.0	99.9	100.0	92.5	100.0	100.0	100.0	100.0	100.0	99.9	100.0	99.5

NOTE: *** IN COLUMNS INDICATE RTION OF VOLUME IS ESTIMATED

SCHED. NO. P68PM009-C

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TAN FUEL OIL USAGE AND STACK EFFLUENTS SUMMARY
FOR JANUARY THROUGH DECEMBER 1983

RPT 228-I
TAN

(ALL VALUES = NEAREST THOUSAND)

FUEL OIL TYPE EFFLUENTS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS
TYPE 2													
VOLUME (LITERS)						42			17	93	122	41	315
SO2 (KGS)						0			0	1	1	0	2
NOX (KGS)													
PARTICULATES (KGS)													
TYPE 5													
VOLUME (LITERS)	188	159	218	165	124	208					59	157	1,277
SO2 (KGS)	5	4	6	4	3	6					2	4	34
NOX (KGS)													
PARTICULATES (KGS)													
GRAND TOTALS													
SO2 (KGS)	5	4	6	4	3	6			0	1	2	4	36
NOX (KGS)													
PARTICULATES (KGS)													

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TRA AIRBORNE DISPOSED SUBSTANCES SUMMARY
FOR JANUARY THROUGH DECEMBER 1983

RPT 234-I
TRA-A

RELEASE POINT DESCRIPTION SUBSTANCE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL TOT & AVE
COOLING TOWERS EVAP VOLUME (1000 CM)	122,600	150,794	161,116	185,204	171,539	121,323	250,527	163,503	171,717	213,064	154,290	169,774	2,035,851

NOTE: UNDERLINE = CALCULATED CONCENTRATION

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TRA LIQUID DISPOSED SUBSTANCES SUMMARY
FOR JANUARY THROUGH DECEMBER 1983

RPT 235-1
TRA-B

AREA GRAND TOTALS SUBSTANCE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL TOTALS
BERYLLIUM WEIGHT (KGS)								0					0
BETZ FERROSPERSEHF WEIGHT (KGS)		9	13	12	8				3	9	13	17	84
CHLORIDE ION WEIGHT (KGS)	47	42	50	63	56	55	66	26	36	74	51	52	618
HEDP WEIGHT (KGS)	86	44	41	45	65	40	88	69	49	89	41	67	724
HYDROXYCARBONS WEIGHT (KGS)	10			10	10		10	7	3	10	10	3	75
HYPOCHLORITE ION WEIGHT (KGS)	37	32	43	54	51	52	58	36	39	70	43	39	554
MERCURY WEIGHT (KGS)							0	0					0
N-HYDROCARBON WEIGHT (KGS)	48			48	48		48	32	16	48	48	16	349
PHOSPHATE WEIGHT (KGS)	195	101	94	102	145	91	200	157	112	202	93	152	1,646
PHOSPHATE ION WEIGHT (KGS)	303	29,751	239	266	242	268	319	348	315	368	175	518	33,114
POLYACRYLATE WEIGHT (KGS)	161	164	476	495	193	105	133	123	137	164	93	288	2,531
POTASSIUM ION WEIGHT (KGS)	31	16	15	16	24	14	32	25	18	32	15	24	260
SODIUM ION WEIGHT (KGS)	1,380	1,978	1,526	1,505	1,599	1,360	1,253	1,148	1,795	2,026	1,323	1,737	19,031
SODIUM PHOSPHATE WEIGHT (KGS)	2	2	1	2	1				2	2	1	1	15
SULFATE ION WEIGHT (KGS)	31,067	41,969	40,214	46,884	37,603	34,078	47,648	35,241	36,991	50,788	35,170	42,706	480,357

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TRA LIQUID DISPOSED SUBSTANCES SUMMARY
FOR JANUARY THROUGH DECEMBER 1983

RPT 235-I
TRA-8

AREA GRAND TOTALS SUBSTANCE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL TOTALS
SULFITE ION													
WEIGHT (KGS)	1	1	1	1	1				1	1	1	2	10
TDS													
WEIGHT (KGS)	63,529	52,899	48,521	51,041	48,933	79,261	66,149	71,940	63,691	60,035	41,705	31,443	679,547
TOLYTRIAZOLE													
WEIGHT (KGS)	21	11	10	11	16	10	22	17	12	22	10	17	181
TOTAL HARDNESS													
WEIGHT (KGS)	37,443	41,547	32,100	35,578	32,285	36,771	37,657	38,163	37,591	43,977	22,456	36,712	432,280

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TRA LIQUID DISPOSED SUBSTANCES SUMMARY
FOR JANUARY THROUGH DECEMBER 1983

RPT 235-I
TRA-B

RELEASE POINT DESCRIPTION / SUBSTANCE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL TOT & AVE
CHEMICAL WASTE POND SURFACE													
VOLUME (1000 L)	1,945	2,211	2,249	2,857	2,041	1,684	2,328	1,656	1,825	2,639	1,684	2,161	25,279
PH													
SODIUM ION													
CNC. (MG/L)	677.76	877.17	662.00	652.14	759.18	786.92	506.48	666.18	965.77	742.28	764.46	778.45	730.12
WEIGHT (KGS)	1,318	1,939	1,489	1,863	1,549	1,325	1,179	1,103	1,762	1,959	1,287	1,682	18,457
SULFATE ION													
CNC. (MG/L)	8430.36	10847.57	7543.10	9671.94	8306.13	11731.30	8012.92	8065.77	8925.02	8989.00	9840.25	11207.30	9276.02
WEIGHT (KGS)	16,399	23,984	16,963	27,634	16,950	19,752	18,651	13,357	16,284	23,726	16,568	24,219	234,488
COLD WASTE POND SURFACE													
VOLUME (1000 L)	72,564	74,192	74,305	91,226	64,312	80,286	73,548	80,854	71,466	76,614	64,161	86,381	909,910
PH	7.9	7.9	7.8	8.2	7.6	8.0	7.6	7.8	7.3	7.8	7.7	7.8	7.8
BETZ FERROSPERSEHP													
CNC. (MG/L)		0.12	0.18	0.13	0.13				0.04	0.12	0.20	0.20	0.09
WEIGHT (KGS)		9	13	12	8				3	9	13	17	84
CHLORIDE ION													
CNC. (MG/L)	0.42	0.35	0.45	0.48	0.62	0.49	0.63	0.12	0.29	0.71	0.54	0.38	0.45
WEIGHT (KGS)	31	26	34	43	40	40	46	10	20	55	35	32	412
HEDP													
CNC. (MG/L)	1.18	0.60	0.56	0.49	1.02	0.50	1.19	0.85	0.69	1.16	0.64	0.77	0.80
WEIGHT (KGS)	86	44	41	45	65	40	88	69	49	89	41	67	724
HYDROXYCARBONS													
CNC. (MG/L)	0.14			0.11	0.16		0.14	0.08	0.05	0.13	0.16	0.04	0.08
WEIGHT (KGS)	10			10	10		10	7	3	10	10	3	75
HYPOCHLORITE ION													
CNC. (MG/L)	0.19	0.12	0.27	0.28	0.43	0.36	0.39	0.16	0.23	0.54	0.31	0.12	0.28
WEIGHT (KGS)	14	9	20	25	28	29	29	13	16	41	20	10	254

NOTE: UNDERLINE = CALCULATED CONCENTRATION BASED UPON CHEMICAL USAGE

IDAHO OPERATIONS OFFICE
UNITED STATES DEPARTMENT OF ENERGY
INEL INDUSTRIAL WASTE MANAGEMENT INFORMATION SYSTEM

07/09/84

TRA LIQUID DISPOSED SUBSTANCES SUMMARY
FOR JANUARY THROUGH DECEMBER 1983

RPT 235-I
TRA-8

RELEASE POINT DESCRIPTION SUBSTANCE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL TOT & AVE
MERCURY													
CNC. (MG/L)							0.00						0.00
WEIGHT (KGS)							0						0
N-HYDROCARBON													
CNC. (MG/L)	0.65			0.52	0.74		0.65	0.39	0.22	0.62	0.74	0.18	0.38
WEIGHT (KGS)	48			48	48		48	32	16	48	48	16	349
PHOSPHATE													
CNC. (MG/L)	2.68	1.36	1.27	1.12	2.31	1.13	2.71	1.94	1.56	2.64	1.45	1.75	1.81
WEIGHT (KGS)	195	101	94	102	149	91	200	157	112	202	93	152	1,646
PHOSPHATE ION													
CNC. (MG/L)	4.18	401.00	3.22	2.52	3.77	3.34	4.34	4.30	4.41	4.80	2.73	6.00	36.39
WEIGHT (KGS)	303	29,751	239	266	242	268	319	348	315	368	175	518	33,114
POLYACRYLATE													
CNC. (MG/L)	2.22	2.21	6.40	5.42	2.59	1.31	1.81	1.52	1.92	2.14	1.45	3.33	2.78
WEIGHT (KGS)	161	164	476	495	193	105	133	123	137	164	93	288	2,531
POTASSIUM ION													
CNC. (MG/L)	0.42	0.21	0.20	0.18	0.37	0.18	0.43	0.31	0.25	0.42	0.23	0.28	0.29
WEIGHT (KGS)	31	16	15	16	24	14	32	25	18	32	15	24	260
SODIUM ION													
CNC. (MG/L)	0.85	0.52	0.49	0.47	0.77	0.44	1.01	0.48	0.47	0.87	0.56	0.62	0.62
WEIGHT (KGS)	62	39	37	42	50	35	74	39	33	67	36	55	568
SODIUM PHOSPHATE													
CNC. (MG/L)	0.03	0.02	0.02	0.02	0.01				0.03	0.02	0.02	0.02	0.02
WEIGHT (KGS)	2	2	1	2	1				2	2	1	1	15
SULFATE ION													
CNC. (MG/L)	202.13	242.41	312.92	211.01	321.14	178.43	394.26	270.65	289.74	353.21	289.92	214.01	270.21
WEIGHT (KGS)	14,667	17,985	23,251	19,250	20,653	14,326	28,997	21,884	20,707	27,061	18,602	18,486	245,869

NOTE: UNDERLINE = CALCULATED CONCENTRATION BASED UPON CHEMICAL USAGE

IDAHO OPERATIONS OFFICE
UNITED STATES DEPARTMENT OF ENERGY
INEL INDUSTRIAL WASTE MANAGEMENT INFORMATION SYSTEM

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TRA LIQUID DISPOSED SUBSTANCES SUMMARY
FOR JANUARY THROUGH DECEMBER 1983

RPT 235-I
TRA-P

RELEASE POINT DESCRIPTION / SUBSTANCE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL TOT & AVE
SULFITE ION													
CNC. (MG/L)	0.02	0.02	0.02	0.01	0.01				0.01	0.01	0.01	0.02	0.01
WEIGHT (KGS)	1	1	1	1	1				1	1	1	2	10
TDS													
CNC. (MG/L)	881.00	713.00	653.00	559.50	758.00	957.00	863.40	845.00	858.60	778.40	650.00	364.00	734.07
WEIGHT (KGS)	63,929	52,899	48,521	51,041	48,749	76,834	63,502	68,322	61,361	59,637	41,705	31,443	667,941
TOLYTRIAZOLE													
CNC. (MG/L)	0.30	0.15	0.14	0.12	0.25	0.12	0.30	0.21	0.17	0.29	0.16	0.19	0.20
WEIGHT (KGS)	21	11	10	11	16	10	22	17	12	22	10	17	181
TOTAL HARDNESS													
CNC. (MG/L)	516.00	560.00	432.00	390.00	502.00	458.00	512.00	472.00	526.00	574.00	350.00	425.00	475.08
WEIGHT (KGS)	37,443	41,547	32,100	35,578	32,285	36,771	37,657	38,163	37,591	43,977	22,456	36,712	432,280
CONDENSATE LOSS	SUBSURFACE												
VOLUME (1000 L)	962	1,256	1,024	1,562	951				231	1,346	1,241	2,012	10,586
PH													
DESERT	SURFACE												
VOLUME (1000 L)										1,563			1,563
PH										7.9			7.9
TDS													
CNC. (MG/L)	255.00												255.00
WEIGHT (KGS)	399												399
IRRIGATION	SURFACE												
VOLUME (1000 L)					763	10,073	11,265	13,760	9,157				45,017
PH					7.7	7.8	8.0	7.6	7.5				7.7
TDS													
CNC. (MG/L)	241.00	241.00	235.00	263.00	254.50								248.97
WEIGHT (KGS)	184	2,428	2,647	3,619	2,330								11,208

NOTE: UNDERLINE = CALCULATED CONCENTRATION BASED UPON CHEMICAL USAGE

SCHED. NO. P68PM007-B

IDAHO OPERATIONS OFFICE
UNITED STATES DEPARTMENT OF ENERGY
INEL INDUSTRIAL WASTE MANAGEMENT INFORMATION SYSTEM

07/09/94

TRA LIQUID DISPOSED SUBSTANCES SUMMARY
FOR JANUARY THROUGH DECEMBER 1983

RPT 235-I
TRA-B

RELEASE POINT DESCRIPTION / SUBSTANCE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL TOT & AVE
RADIOACTIVE STREAM SURFACE													
VOLUME (1000 L)	9,312	6,409	8,547	10,398	8,210	9,263	10,690	8,089	9,372	13,468	7,359	9,615	110,731
PH													
BERYLLIUM													
CNC. (MG/L)	0.01												0.00
WEIGHT (KGS)	0												0
MERCURY													
CNC. (MG/L)	0.00												0.00
WEIGHT (KGS)	0												0
SODIUM ION													
CNC. (MG/L)	0.79												0.06
WEIGHT (KGS)	6												6
SEWAGE PLANT SURFACE													
VOLUME (1000 L)	1,419	1,534	1,557	2,295	1,767	2,567	2,894	2,521	1,662	1,826	1,538	1,690	23,269
PH	7.7	7.6	7.6	7.6	7.7	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6
CHLORIDE ION													
CNC. (MG/L)	11.19	10.35	10.19	8.64	8.98	6.18	6.85	6.30	9.55	10.87	10.32	11.74	8.87
WEIGHT (KGS)	16	16	16	20	16	16	20	16	16	20	16	20	206
HYPOCHLORITE ION													
CNC. (MG/L)	16.24	15.02	14.79	12.55	13.04	8.98	9.95	9.14	13.87	15.77	14.98	17.04	12.87
WEIGHT (KGS)	23	23	23	29	23	23	29	23	23	29	23	29	300

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INEL INDUSTRIAL WASTE MANAGEMENT INFORMATION SYSTEM

07/09/84

TRA INDUSTRIAL WASTE SUMMARY
FOR JANUARY THROUGH DECEMBER 1983

RPT 236-1
TRA

DISPOSAL OR STORAGE LOCATION / TYPE OF WASTE	VOLUME OR WEIGHT BY MONTH JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS
CFA LANDFILL													
DISPOSED WASTE													
1 M SOLID	214.1	156.8	133.8	232.5	187.7	125.4	188.9	214.9	143.0	80.3	102.5	122.3	1,902.0
2 M SOLID	18.4	15.3	12.2	4.6	12.2	12.2	6.1	3.1	9.2	12.2	10.7	6.1	122.3
3 M SOLID	1387.8	163.6	102.2	199.6	136.1	12.2	3.1	54.3	79.9	8.3	35.2	6.1	2,188.3
4 M SOLID							3.4	1.9	14.9	10.7	15.3		46.3
9 M SOLID									21.4				21.4
ASPHALT													
9 M SOLID			6.9										6.9
BARRELLS													
9 M SOLID											29.1		29.1
BOXED HAZARDOUS MATERIAL													
9 M SOLID							1.5						1.5
CALCIUM NITRATE													
9 M SOLID				3.8	0.4								4.2
CARDBOARD BARRELS													
9 M SOLID						3.1			3.1		3.1		9.2
METAL SHAVINGS													
9 M SOLID									3.8				3.8
PLASTIC CONES													
9 M SOLID									1.5	1.5			3.1
RESIN BARRELS													
9 M SOLID											3.1		3.1
SCRAP FURNITURE													
9 M SOLID					9.9	1.5		2.3	15.3	7.6	6.9		43.6
WEEDS													
GRAND TOTALS													
DISPOSED WASTE													
1 M SOLID	214.1	156.8	133.8	232.5	187.7	125.4	188.9	214.9	143.0	80.3	102.5	122.3	1,902.0
2 M SOLID	18.4	15.3	12.2	4.6	12.2	12.2	6.1	3.1	9.2	12.2	10.7	6.1	122.3
3 M SOLID	1387.8	163.6	102.2	199.6	136.1	12.2	3.1	54.3	79.9	8.3	35.2	6.1	2,188.3
4 M SOLID							3.4	1.9	14.9	10.7	15.3		46.3
9 M SOLID			6.9	3.8	10.3	4.6	1.5	2.3	45.1	9.2	42.1		125.8

M = CUBIC METERS L = LITERS K = KILOGRAMS

IDAHO OPERATIONS OFFICE
UNITED STATES DEPARTMENT OF ENERGY
INEL INDUSTRIAL WASTE MANAGEMENT INFORMATION SYSTEM

07/09/84

TRA WATER USAGE AND DISPOSAL SUMMARY
FOR JANUARY THROUGH DECEMBER 1983

RPT 237-I
TRA

(ALL VOLUMES = NEAREST THOUSAND LITERS)

WELL OR BUILDING NO. / SEWAGE BUILDING NO	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS & AVERAGES
WATER DATA													
1 WATER PUMPED (L)		4,872	3,077	28,026	3,664	2,010	44,932	6,075	7,597	1,355	2,873	3,195	107,677
3 WATER PUMPED (L)	2,759		2,305	2,896					36,653		2,442	10,160	57,215
4 WATER PUMPED (L)	167,045	183,587	192,180	203,725	191,650	184,609	226,664	212,317	166,591	241,426	175,903	204,293	2,349,989
WATER PUMPED (L)	169,805	188,459	197,562	234,647	195,314	186,619	271,595	218,393	210,841	242,782	181,217	217,647	2,514,880
WATER DISPOSAL													
AIR (L)	83,617	102,847	109,887	126,315	117,269	82,747	170,868	111,515	117,117	145,318	105,231	115,792	1,388,522
SURFACE (L) *	83,807	82,822	85,054	104,474	75,327		97,812		91,831	94,292	73,208	98,153	886,819
SUBSURFACE (L)	962	1,256	1,024	1,562	951				231	1,346	1,241	2,012	10,586
SEWAGE DATA													
BUILD VOL. (L)	1,419	1,534	1,557	2,295	1,767	2,567	2,897	2,521	1,662	1,826	1,538	1,690	23,272
BIOCHEMICAL OXYGEN DEMAND (BOD)													
RAW CONC. (MG/L)	215.0	202.5	179.0	113.5	95.0	101.3	165.0	178.8	240.6	240.0	233.3	152.0	176.3
FINAL CONC. (MG/L)	12.8	16.3	10.6	17.8	10.5	13.8	11.6	14.3	17.8	14.3	8.3	13.4	13.5
% REMOVED	94.0	92.0	94.1	84.3	88.9	86.4	93.0	92.0	92.6	94.0	96.4	91.2	92.3
DISSOLVED OXYGEN (DO)													
RAW CONC. (MG/L)	2.0	2.3	2.2	1.3	1.8	1.8	1.2	1.3	1.6	1.3	2.5	2.6	1.8
FINAL CONC. (MG/L)	5.0	5.3	5.4	4.5	5.0	4.8	4.6	4.8	3.6	4.0	5.5	6.4	4.9
INCREASED FACTOR	1.5	1.3	1.5	2.5	1.8	1.7	2.8	2.7	1.3	2.1	1.2	1.5	1.7
SETTLEABLE SOLIDS (SS)													
RAW CONC. (ML/L)	8.6	4.6	7.6	4.5	4.7	3.2	2.5	2.3	12.4	5.2	7.1	3.9	5.5
FINAL CONC. (ML/L)	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
% REMOVED	99.4	98.9	99.3	98.9	98.9	98.4	98.0	97.8	99.6	99.0	99.3	98.7	99.1
PH FINAL	7.5	7.3	7.5	7.3	7.2	7.1	7.1	7.2	6.9	7.7	7.7	7.2	7.3
TOTAL SEWAGE VOL. (L)	1,419	1,534	1,557	2,295	1,767	2,567	2,897	2,521	1,662	1,826	1,538	1,690	23,272
TOTAL WATER DISPOSED (L)	169,805	188,459	197,562	234,647	195,314	85,314	271,578	114,036	210,841	242,782	181,217	217,647	2,309,199
ACCOUNTABILITY (%)	100.0	100.0	100.0	100.0	100.0	45.7	100.0	52.2	100.0	100.0	100.0	100.0	91.8

NOTE: "*" IN COLUMNS INDICATE A PORTION OF VOLUME IS ESTIMATED

SCHED. NO. P68PM009-C

IDAHO OPERATIONS OFFICE
UNITED STATES DEPARTMENT OF ENERGY
INEL INDUSTRIAL WASTE MANAGEMENT INFORMATION SYSTEM

07/09/84

TRA FUEL OIL USAGE AND STACK EFFLUENTS SUMMARY
FOR JANUARY THROUGH DECEMBER 1983

RPT 238-I
TRA

(ALL VALUES = NEAREST THOUSAND)

FUEL OIL TYPE / EFFLUENTS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS
DIESEL													
VOLUME (LITERS)	106	128	132	158	121	144	170	129	117	165	118	137	1,623
SO2 (KGS)	1	1	1	1	1	1	1	1	1	1	1	1	11
NOX (KGS)													
PARTICULATES (KGS)													
TYPE 5													
VOLUME (LITERS)	173	162	126	165	91				25	150	143	235	1,270
SO2 (KGS)	5	4	3	4	2				1	4	4	6	34
NOX (KGS)													
PARTICULATES (KGS)	1	1	1	1	0				0	1	1	1	6
GRAND TOTALS													
SO2 (KGS)	5	5	4	5	3	1	1	1	1	5	5	7	45
NOX (KGS)													
PARTICULATES (KGS)	1	1	1	1	0				0	1	1	1	6

SCHED. NO. P68PM006-B

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UNITED STATES DEPARTMENT OF ENERGY
INEL INDUSTRIAL WASTE MANAGEMENT INFORMATION SYSTEM

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WER INDUSTRIAL WASTE SUMMARY
FOR JANUARY THROUGH DECEMBER 1983

RPT 246-1
WER

DISPOSAL OR STORAGE LOCATION / TYPE OF WASTE	VOLUME OR WEIGHT BY MONTH JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS
CFA LANDFILL													
DISPOSED WASTE													
1 M SOLID							6.1			6.1			12.2
3 M SOLID	1.5						3.1						4.6
4 M SOLID									7.6				7.6
5 M SOLID					5.4								5.4
9 M SOLID											7.6		7.6
DIRT													
9 M SOLID							6.1						6.1
FILTERS													
9 M SOLID							1.5						1.5
WOOD BOX													
GRAND TOTALS													
DISPOSED WASTE													
1 M SOLID							6.1			6.1			12.2
3 M SOLID	1.5						3.1						4.6
4 M SOLID									7.6				7.6
5 M SOLID					5.4								5.4
9 M SOLID							7.6				7.6		15.3

M = CUBIC METERS L = LITERS K = KILOGRAMS

SCHED. NO. P68PM006-8

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UNITED STATES DEPARTMENT OF ENERGY
INEL INDUSTRIAL WASTE MANAGEMENT INFORMATION SYSTEM

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WMC INDUSTRIAL WASTE SUMMARY
FCR JANUARY THROUGH DECEMBER 1983

RPT 256-I
WMC

DISPCSAL CR STORAGE LOCATION / TYPE OF WASTE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS
	VOLUME OR WEIGHT BY MONTH												
CFA LANDFILL													
DISPOSED WASTE													
1 M SOLID	19.1	10.7	6.1	15.3	6.1	6.1	6.1	6.1	6.1	7.3	6.1	6.1	101.3
3 M SOLID			3.8	2.3		0.2		1.1	1.5		0.8		9.8
4 M SOLID								0.2					0.2
9 M SOLID								4.2					4.2
OTHER - WEEDS													
9 M SOLID											3.8		3.8
WEEDS													
GRAND TOTALS													
DISPCSED WASTE													
1 M SOLID	19.1	10.7	6.1	15.3	6.1	6.1	6.1	6.1	6.1	7.3	6.1	6.1	101.3
3 M SOLID			3.8	2.3		0.2		1.1	1.5		0.8		9.8
4 M SOLID								0.2					0.2
9 M SOLID								4.2			3.8		8.0

M = CUBIC METERS L = LITERS K = KILCGRAMS

SCHED. NO. P68PM005-C

IDAHO OPERATIONS OFFICE
UNITED STATES DEPARTMENT OF ENERGY
INEL INDUSTRIAL WASTE MANAGEMENT INFORMATION SYSTEM

07/09/84

WMC WATER USAGE AND DISPOSAL SUMMARY
FOR JANUARY THROUGH DECEMBER 1983

RPT 257-I
WMC

(ALL VOLUMES = NEAREST THOUSAND LITERS)

WELL OR BUILDING NO. / SEWAGE BUILDING NO	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS & AVERAGES
WATER DATA													
EBR WATER PUMPED (L)	153	170	149	102						423	126	231	1,354
WMC WATER PUMPED (L)	2,540	55	808	377	347	420	1,463	1,522	419	118	274	39	8,381
WATER PUMPED (L)	2,692	224	957	479	347	420	1,463	1,522	419	541	399	271	9,735
WATER DISPOSAL													
AIR (L) *													
SURFACE (L) *	130	7	44	20	13	17	69	144	269	92	63	19	886
SUBSURFACE (L) *	2,479	134	830	376	251	320	1,310	1,295	67	366	253	168	7,848
SEWAGE DATA													
EBR BUILD VOL. (L)	45	45	45	45	45	45	45	45	45	45	45	45	545
BIOCHEMICAL OXYGEN DEMAND (BOD)													
RAW CONC. (MG/L)													
FINAL CONC. (MG/L)													
% REMOVED													
DISSOLVED OXYGEN (DO)													
RAW CONC. (MG/L)													
FINAL CONC. (MG/L)													
INCREASED FACTOR													
SETTLEABLE SOLIDS (SS)													
RAW CONC. (ML/L)													
FINAL CONC. (ML/L)													
% REMOVED													
PH FINAL													

NOTE: "*" IN COLUMNS INDICATE RTION OF VOLUME IS ESTIMATED

SCHED. NO. P68PM005-C

IDAHO OPERATIONS OFFICE
UNITED STATES DEPARTMENT OF ENERGY
INEL INDUSTRIAL WASTE MANAGEMENT INFORMATION SYSTEM

07/09/84

WMC WATER USAGE AND DISPOSAL SUMMARY
FOR JANUARY THROUGH DECEMBER 1983

RPT 257-I
WMC

(ALL VOLUMES = NEAREST THOUSAND LITERS)

WELL OR BUILDING NO. / SEWAGE BUILDING NO	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS & AVERAGES
SEWAGE DATA													
WMC BUILD VOL. (L)	38	38	38	38	38	38	38	38	38	38	38	38	454
BIOCHEMICAL OXYGEN DEMAND (BOD)													
RAW CONC. (MG/L)													
FINAL CONC. (MG/L)													
% REMOVED													
DISSOLVED OXYGEN (DO)													
RAW CONC. (MG/L)													
FINAL CONC. (MG/L)													
INCREASED FACTOR													
SETTLEABLE SOLIDS (SS)													
RAW CONC. (ML/L)													
FINAL CONC. (ML/L)													
% REMOVED													
PH FINAL													
TOTAL SEWAGE VOL. (L)	83	83	83	83	83	83	83	83	83	83	83	83	999
TOTAL WATER DISPOSED (L)	2,692	224	957	479	347	420	1,462	1,522	419	541	399	270	9,734
ACCOUNTABILITY (%)	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9	100.0

NOTE: "**" IN COLUMNS INDICATE A PORTION OF VOLUME IS ESTIMATED

IDAHO OPERATIONS OFFICE
UNITED STATES DEPARTMENT OF ENERGY
INEL INDUSTRIAL WASTE MANAGEMENT INFORMATION SYSTEM

07/09/84

WMC FUEL OIL USAGE AND STACK EFFLUENTS SUMMARY
FOR JANUARY THROUGH DECEMBER 1983

RPT 258-I
WMC

(ALL VALUES = NEAREST THOUSAND)

FUEL OIL TYPE / EFFLUENTS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS
DIESEL													
VOLUME (LITERS)								0					0
SO2 (KGS)								0					0
NOX (KGS)													
PARTICULATES (KGS)													
TYPE 2													
VOLUME (LITERS)	9	6	5	4	4	2	0				7	5	41
SO2 (KGS)	0	0	0	0	0	0	0				0	0	0
NOX (KGS)													
PARTICULATES (KGS)													
GRAND TOTALS													
SO2 (KGS)	0	0	0	0	0	0	0	0			0	0	0
NOX (KGS)													
PARTICULATES (KGS)													

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UNITED STATES DEPARTMENT OF ENERGY
INEL INDUSTRIAL WASTE MANAGEMENT INFORMATION SYSTEM

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WRF LIQUID DISPOSED SUBSTANCES SUMMARY
FOR JANUARY THROUGH DECEMBER 1983

RPT 265-I
WRF-B

AREA GRAND TOTALS SUBSTANCE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL TOTALS
CHLORIDE ION WEIGHT (KGS)	220	165	124	138	124	193		138	138			83	1,321
PHOSPHATE ION WEIGHT (KGS)	5	4	4	1	2	1			0	1	1	5	25
SODIUM ION WEIGHT (KGS)	164	127	99	114	99	141	7	115	116	20	16	55	1,112
SULFATE ION WEIGHT (KGS)	32	32	320	48	32	32	16	64	64	48	32	40	759
SULFITE ION WEIGHT (KGS)	10	8	7	8	7	4			1	3	4	5	57

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WRF LIQUID DISPOSED SUBSTANCES SUMMARY
FOR JANUARY THROUGH DECEMBER 1983

RPT 265-I
WRF-8

RELEASE POINT DESCRIPTION / SUBSTANCE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL TOT & AVE
WRRTF DISPOSAL WELL SUBSURFACE													
VOLUME (1000 L)	3,443	2,776	7,200	4,671	2,854	3,033	2,405	9,861	11,420	5,246	6,091	8,119	67,120
PH													
CHLORIDE ION													
CNC. (MG/L)	63.95	59.48	17.20	29.46	43.39	63.53		13.96	12.05			10.17	19.68
WEIGHT (KGS)	220	165	124	138	124	193		138	138			83	1,321
PHOSPHATE ION													
CNC. (MG/L)	1.50	1.42	0.51	0.29	0.87	0.34			0.02	0.15	0.18	0.61	0.37
WEIGHT (KGS)	5	4	4	1	2	1			0	1	1	5	25
SODIUM ION													
CNC. (MG/L)	47.60	45.61	13.79	24.45	34.66	46.42	2.71	11.68	10.13	3.77	2.68	11.74	16.58
WEIGHT (KGS)	164	127	99	114	99	141	7	115	116	20	16	95	1,112
SULFATE ION													
CNC. (MG/L)	9.29	11.51	44.41	10.27	11.20	10.54	6.65	6.48	5.60	9.14	5.25	4.92	11.31
WEIGHT (KGS)	32	32	320	48	32	32	16	64	64	48	32	40	759
SULFITE ION													
CNC. (MG/L)	2.84	2.90	1.00	1.66	2.32	1.23			0.05	0.66	0.71	0.67	0.85
WEIGHT (KGS)	10	8	7	8	7	4			1	3	4	5	57
WRRTF SEWAGE POND	SURFACE												
VOLUME (1000 L)	143	87	82	84	75	96	65	84	58	77	63	61	975
PH													

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WRF INDUSTRIAL WASTE SUMMARY
FOR JANUARY THROUGH DECEMBER 1983

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WRF

DISPOSAL OR STORAGE LOCATION	VOLUME OR WEIGHT BY MONTH												
TYPE OF WASTE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS

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WRF WATER USAGE AND DISPOSAL SUMMARY
FOR JANUARY THROUGH DECEMBER 1983

RPT 267-I
WRF

(ALL VOLUMES = NEAREST THOUSAND LITERS)

WELL OR BUILDING NO. / SEWAGE BUILDING NO	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS & AVERAGES
WATER DATA													
WRF WATER PUMPED (L)	3,443	2,863	7,283	4,758	2,929	3,129	2,471	9,948	11,481	5,326	6,155	8,184	67,969
WATER DISPOSAL													
AIR (L)													
SURFACE (L)													
SUBSURFACE (L)	3,300	2,776	7,200	4,671	2,854	3,033	2,405	9,861	11,420	5,246	6,091	8,119	66,977
SEWAGE DATA													
643 BUILD VOL. (L)	143	87	82	84	75	96	65	84	58	77	63	61	975
BIOCHEMICAL OXYGEN DEMAND (BOD)													
RAW CONC. (MG/L)	35.2	20.6	23.0	29.3	39.0	58.4	53.0	72.2	75.7	70.2	61.5	68.0	50.5
FINAL CONC. (MG/L)													
% REMOVED													
DISSOLVED OXYGEN (DO)													
RAW CONC. (MG/L)	3.7	3.4	1.8	1.0	1.0	1.0	1.0	2.4	3.0	3.5	3.5	6.0	2.6
FINAL CONC. (MG/L)													
INCREASED FACTOR													
SETTLEABLE SOLIDS (SS)													
RAW CONC. (ML/L)													
FINAL CONC. (ML/L)													
% REMOVED													
PH FINAL	7.2	7.1	7.2	6.9	7.0	6.9	6.8	7.0	7.1	7.5	7.2	7.0	7.1
TOTAL SEWAGE VOL. (L)	143	87	82	84	75	96	65	84	58	77	63	61	975
TOTAL WATER DISPOSED (L)	3,443	2,863	7,282	4,755	2,929	3,129	2,471	9,945	11,479	5,324	6,154	8,180	67,952
ACCOUNTABILITY (%)	100.0	100.0	100.0	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

NOTE: "*" IN COLUMNS INDICATE PORTION OF VOLUME IS ESTIMATED

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INEL INDUSTRIAL WASTE MANAGEMENT INFORMATION SYSTEM

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WRF FUEL OIL USAGE AND STACK EFFLUENTS SUMMARY
FOR JANUARY THROUGH DECEMBER 1983

RPT 268-I
WRF

(ALL VALUES = NEAREST THOUSAND)

FUEL OIL TYPE EFFLUENTS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS
TYPE 2													
VOLUME (LITERS)	30	30	30	30	15	17			1	11	21	40	225
SO2 (KGS)	0	0	0	0	0	0			0	0	0	0	1
NOX (KGS)													
PARTICULATES (KGS)													
GRAND TOTALS													
SO2 (KGS)	0	0	0	0	0	0			0	0	0	0	1
NOX (KGS)													
PARTICULATES (KGS)													