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IDAHO NATIONAL ENGINEERING LABORATORY

INDUSTRIAL WASTE MANAGEMENT INFORMATION

FOR 1975 AND RECORD-TO-DATE

COMPILED BY:

S. S. WHITE

OFFICE OF WASTE MANAGEMENT

IDAHO OPERATIONS OFFICE

U.S. ENERGY RESEARCH AND DEVELOPMENT ADMINISTRATION

INEL INDUSTRIAL WASTE MANAGEMENT INFORMATION

1975 AND RECORD-TO-DATE

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ABSTRACT

This report summarizes the industrial waste data associated with activities at the Idaho National Engineering Laboratory (INEL) for 1975 and record-to-date. 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 summarized in this report. The waste data has been taken from the INEL Industrial Waste Management Information System (IWMIS).

ABBREVIATIONS

IDENTIFICATION	ABBREVIATION
Argonne National Laboratory	ANL
Auxiliary Reactor Area	ARA
Central Facilities Area	CFA
Chemical Processing Plant	CPP
Experimental Breeder Reactor No. 2	EBR-II
Idaho National Engineering Laboratory	INEL
Loss of Fluid Test Facility	LOFT
Low Power Test Facility	LPT
Naval Reactors Facility	NRF
Power Burst Facility	PBF
Special Power Excursion Reactor Test	SPERT (PER)
Test Area North	TAN
Technical Support Facilities (TAN)	TF
Test Reactors Area	TRA
Transient Reactor Test Facility	TREAT

INTRODUCTION

In recent years, the reporting and documenting of information on the levels of industrial waste (nonradioactive) discharges from ERDA facilities have become more important.

A computerized Industrial Waste Management Information System (IWMIS) has been developed at the Idaho National Engineering Laboratory (INEL). The system provides for timely and accurate reports on the amount of all types of industrial waste which has been stored and disposed at the INEL. The system also provides information on fuel oil usage and water usage and disposal.

The system serves as the official record for all types of industrial wastes stored or disposed at the INEL. It is designed to standardize the reporting of all forms and types of wastes disposed or stored at the INEL. Computerization of the data provides considerable flexibility in making various data readily available from a single data base. The system is an effective tool in the management of industrial waste at the INEL.

The IWMIS provides monthly, yearly, and special reports which are useful to various levels of management in appraising their industrial waste programs. Yearly reports provide a summary by type and producer of waste.

A number of reports have been developed for the system. The following are the reports with a brief description and purpose for each:

1. 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.

2. Report 2, INEL Year-to-Date Water Usage Summary. This report provides the quantity of water pumped and disposed and percent accountability at each facility for the year-to-date.

3. 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 by Types 1 through 9 which correspond generally with the standard classifications for sanitary wastes.

4. Report 4, INEL Airborne and 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.

5. 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.

6. Report 6, INEL Year-to-Date Fuel Oil Summary. This report provides similar information to Report 5 for the year-to-date.

Other reports available from the system are:

Series XX4, (Facility) Airborne Disposed Substances Summary

Series XX5, (Facility) Liquid Disposed Substances Summary

Series XX6, (Facility) Industrial Waste Summary

Series XX7, (Facility) Water Usage and Disposal Summary

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

A detailed list of reports that are available through the INEL Industrial Waste Management System is found on pages 9 and 10.

SUMMARY

This document provides detailed waste management data on the types and quantities of industrial waste, fuel oil usage, and water usage for the year 1975 and record-to-date. It also provides summary reports on INEL industrial waste management for 1975, and provides a measure of the effectiveness of the industrial waste management program at the INEL.

A total of 24,250 cubic yards of solid industrial waste was disposed to sanitary landfills at the INEL during 1975. This compares to 35,010 cubic yards in 1974, and 30,370 cubic yards in 1973.

During 1975, a total of 8,617 gallons of waste oils and solvents was disposed of by mixing it with No. 5 oil and utilizing it as fuel in the INEL boilers. This compares with 20,660 gallons in 1974, and 15,270 gallons in 1973.

A total of 5,129,000 pounds of chemicals, 1,179,000 pounds of total dissolved solids, and 7,042,000 pounds of total hardness was discharged as liquid wastes to the lithosphere at the INEL during 1975. This liquid waste represents an increase from the total quantities of 11,780,000 pounds in 1974, and 6,168,000 pounds in 1973.

During 1975, a total of 7,247,000 gallons of fuel oil was used at the INEL which produced 1,201,000 pounds of SO_2 and 103,000 pounds of particulates. During 1974, 6,966,000 gallons of fuel oil was used producing 1,227,000 pounds of SO_2 and 133,800 pounds of particulates. The slight decrease in the quantities of SO_2 and particulates from 1974 to 1975 is attributed to the normal fluctuation of the chemical constituents in the fuel oil.

A total of 2,495,000 gallons of water was used at the INEL during 1975 compared to 2,878,000 gallons in 1974, and 2,549,000 gallons in 1973. However, the majority of this water is returned to the lithosphere via injection wells and seepage ponds. The remaining water is lost to the atmosphere via cooling towers and other evaporatory processes.

INEL INDUSTRIAL WASTE SUMMARY
RECORD-TO-DATE

WASTE TYPE		1971-1972	1973	1974	1975
SANITARY WASTE	(CUBIC YARDS)	64,510	29,920	35,010	24,250
OIL-SOLVENTS	(GALLONS)	29,300	15,270	20,660	8,617
LIQUID WASTE	(POUNDS)	14,040,000	6,168,000	11,080,000	12,820,000
AIRBORNE WASTE	(POUNDS)*	2,913,000	444,800	2,061,000	1,835,000
FUEL OIL:					
QUANTITY	(GALLONS)	13,530,000	7,753,000	7,358,000	7,744,000
SO2	(POUNDS)	2,796,000	434,000	1,227,000	1,201,000
PARTICULATES	(POUNDS)	117,300	10,860	133,800	103,000
WATER-USED	(1,000 GALLONS)	4,868,000	2,549,000	2,878,000	2,495,000

* NOTE: INCLUDES SO2 AND PARTICULATES FROM FUEL OIL TOTALS

DETAILS MAY NOT ADD UP TO TOTALS BECAUSE OF ROUNDING

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

YEAR	ANL	ARA	CFA	CPP	NRF	PHF	TAN	TRA	TOTAL
RECORD-TO-DATE (71-73)									
SANITARY WASTES (CU. YDS)	10,890	1	17,740	9,817	29,530	4,836	7,867	13,760	94,430
OILS & SOLVENTS (GALLONS)			27,000		16,060			1,500	44,560
CHEMICALS									
LIQUIDS (GALLONS)					10,650			1,509	12,160
SOLIDS (POUNDS)					7,942				7,942
1974									
SANITARY WASTES (CU. YDS)	4,699		5,690	4,245	11,040	4	4,199	5,131	35,010
OILS & SOLVENTS (GALLONS)	110				20,400		150		20,660
CHEMICALS									
LIQUIDS (GALLONS)					120	75		150	345
SOLIDS (POUNDS)	590		2,988		50			38,770	42,400
1975									
SANITARY WASTES (CU. YDS)	2,501		3,723	3,672	6,991	9	4,027	3,327	24,250
OILS & SOLVENTS (GALLONS)	556				8,061				8,617
CHEMICALS									
LIQUIDS (GALLONS)	1				200		<1		202
SOLIDS (POUNDS)	15								15

DETAILS MAY NOT ADD UP TO TOTALS BECAUSE OF ROUNDING

INEL INDUSTRIAL WASTE SUMMARY IN CUBIC YARDS*
FOR JANUARY THROUGH DECEMBER 1975

TYPES	ANL	CFA	CPP	NRF	PBF	TAN	TRA	TOTAL
1. TRASH	2,040	2,722	2,866	4,753		3,783	3,126	19,290
2. CAFETERIA GARBAGE	408	819	790	1,532		87	134	3,770
3. WOOD & SCRAP LUMBER		36		423		6	40	505
4. MASONRY & CONCRETE	18	129	6	199	9	6	15	382
5. SCRAP METAL	35	17	10	84		145	12	303
6. OIL (GALLONS)	556			8,040				8,596
7. SOLVENTS (GALLONS)				21				21
8. CHEMICALS								
LIQUID (GALLONS)	1			200		<1		202
SOLIDS (POUNDS)	15							15
9. OTHERS								
LIQUID (GALLONS)								
SOLIDS (CU. FT.)	<1			4		3		8
TOTALS								
SANITARY TYPES 1, 2, 3, 4, 5, & 9 (CUBIC YARDS)	2,501	3,723	3,672	6,991	9	4,027	3,327	24,250
OILS & SOLVENTS TYPES 6 & 7 (GALLONS)	556			8,061				8,617
CHEMICALS								
LIQUIDS (GALLONS)	1			200		<1		202
SOLIDS (POUNDS)	15							15

* EXCEPT AS NOTED

DETAILS MAY NOT ADD UP TO TOTALS BECAUSE OF ROUNDING

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

SUBSTANCE IDENTIFICATION	1971-1973	1974	1975	TOTAL
AUTO CLEANERS	13,540	6,464	4,456	24,460
BETZ A-9	150			150
BETZ DE 419	915	3,182	1,800	5,897
BETZ DE 453		250		250
BETZ DE 481	16,610	763		17,370
BETZ DIANODIC 194		170	1,554	1,724
BETZ J-12	40			40
BETZ NEUTRMEEN	3,076	306	217	3,599
BETZ 109	3	1	70	75
BETZ 194	563	100		663
BETZ 406	90	156	39	285
BETZ 429			11,400	11,400
BETZ 65		1,200		1,200
BIOCIDE D-2	21,250			21,250
BLEACH	802	729	257	1,788
CALCIUM ION	558	244	184	986
CHLORIDE ION	2,183,000	648,400	952,200	3,784,000
DIANODIC 194	29,240	5,000		34,240
DISPERSANT 403	18,570	10,150		28,720
HEXAVALENT CR	5,253	64	127	5,444
HYDRAZINE			27	27
HYPOCHLORITE	29,660	2,501	2,215	34,370
KWIK KLEEN	1,300	1,125	1,200	3,625
LAUNDRY PRODUCTS	3,115	678	1,754	5,547
MORPHOLINE			72	72
NALCO 7312			392	392
NALCO 7323			408	408
NALCOOL 7351			1,853	1,853
NITRATE ION	101,400	66,930	60,960	229,300
NITROGEN DIOXIDE		699,400	530,900	1,230,000
OROCOL 194	150			150
OROCOL 734	46,310	70,120	33,610	150,000
PHOSPHATE ION	48,690	31,970	27,540	108,200
PHOTO LAB CHEMICAL	10,640	2,240	5,040	17,920
POLYNODIC 606	6,300	47,700	43,450	97,450
POLYNODIC 633			5,000	5,000
SKASOL			960	960
SKAZOL	6,016	960		6,976
SLIMICIDE A-9	5,911	7,633	7,080	20,620
SLIMICIDE C-35	1,687	2,016	3,196	6,899
SLIMICIDE C-2	1,540	2,944		4,484
SLIMICIDE J-12	3,230	4,228	6,260	13,720
SLIMICIDE J-9	12,280	9,903	9,480	31,660
SLIMICIDE 403	4,968			4,968
SOAP	50,080	9,676	3,421	63,180
SODIUM ION	2,044,000	570,600	780,200	3,395,000
SPRA-SAF	1,900			1,900
SULFATE ION	6,851,000	3,048,000	2,633,000	12,530,000
SULFITE ION	9,728	1,583	885	12,200

DETAILS MAY NOT ADD UP TO TOTALS BECAUSE OF ROUNDING

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

SUBSTANCE IDENTIFICATION	1971-1973	1974	1975	TOTAL
SULFUR DIOXIDE	11,420	5,459	1,332	18,213
TDS	8,656,000	5,492,000	7,042,000	21,190,000
TOTAL HARDNESS		1,027,000	1,179,000	2,206,000
TRIVALENT CR	164		389	553
ZINC ION	3,865		126	3,992
TOTAL	20,210,000	11,780,000	13,350,000	45,340,000

DETAILS MAY NOT ADD UP TO TOTALS BECAUSE OF ROUNDING

AIRBORNE AND LIQUID
INDUSTRIAL WASTE SUBSTANCES SUMMARY IN POUNDS
FOR JANUARY THROUGH DECEMBER, 1975

SUBSTANCE IDENTIFICATION	ANL	CFA	CPP	NRF	PBF	TAN	TRA	TOTAL
AUTO CLEANERS		4,456						4,456
BETZ DE 419							1,800	1,800
BETZ DIANODIC 194	1,350				204			1,554
BETZ NEUTRMEEN	217							217
BETZ 109					70			70
BETZ 406					39			39
BETZ 429							11,400	11,400
BLEACH		257						257
CALCIUM ION	24		113			40	7	184
CHLORIDE ION		14,560	488,000	407,500		42,070		952,200
HEXAVALENT CR	32			95				127
HYDRAZINE	24		-		3			27
HYPOCHLORITE	65	843	290			163	854	2,215
KWIK KLEEN		1,200						1,200
LAUNDRY PRODUCTS		1,754						1,754
MORPHOLINE	72							72
NALCO 7312	392							392
NALCO 7323	408							408
NALCOOL 7351	1,853							1,853
NITRATE ION			60,960					60,960
NITROGEN DIOXIDE			530,900					530,900
OROCOL 734				33,610				33,610
PHOSPHATE ION	740			15,280		1,060	10,460	27,540
PHOTO LAB CHEMICAL	5,040							5,040
POLYNODIC 606							43,450	43,450
POLYNODIC 633							5,000	5,000
SKASOL	960							960
SLIMICIDE A-9				7,080				7,080
SLIMICIDE C-35				3,196				3,196
SLIMICIDE J-12				6,220	40			6,260
SLIMICIDE J-9				4,480			5,000	9,480
SOAP		3,421						3,421
SODIUM ION	7,811	9,437	308,100	293,200	1,305	31,940	128,400	780,200
SULFATE ION	41,010		61,690	588,500	3,103	9,437	1,930,000	2,633,000
SULFITE ION	3				20	817	45	885
SULFUR DIOXIDE	1,332							1,332
TDS			1,360,000	3,190,000			2,492,000	7,042,000
TOTAL HARDNESS							1,179,000	1,179,000
TRIVALENT CR	389							389
ZINC ION	126							126
TOTAL	61,840	35,930	2,810,000	4,549,000	4,785	85,530	5,807,000	13,350,000

DETAILS MAY NOT ADD UP TO TOTALS BECAUSE OF ROUNDING

INEL FUEL OIL SUMMARY
RECORD-TO-DATE

AREA	1971-1973 FUEL OIL (GAL)	1971-1973 SO2 (LBS)	1971-1973 PART. (LBS)	1971-1973 DIESEL (GAL)	1974 FUEL OIL (GAL)	1974 SO2 (LBS)	1974 PART. (LBS)	1974 DIESEL (GAL)	1975 FUEL OIL (GAL)	1975 SO2 (LBS)	1975 PART. (LBS)	1975 DIESEL (GAL)
ANL	2,505,000	318,100	20,960		770,300	36,760	3,460		530,500	23,960	803	
ARA	93,220	2,942			34,760	7,012	1,153		12,040	357		
CFA	1,879,000	219,900	32,180		590,200	104,900	16,900		816,100	34,660		
CPP	4,912,000	500,500	12,140		1,940,000	50,200			1,840,000	75,230		
NRF	5,213,000	1,055,000	20,650		1,609,000	523,400	28,800		1,842,000	538,300	29,730	
PBF	81,320	2,161			21,380	3,256	509		38,120	1,071		
TAN	2,191,000	453,200	21,810		845,500	207,800	35,090	700	980,000	212,900	23,140	
TRA	3,354,000	677,900	20,440	1,054,000*	1,155,000	294,200	47,920	391,500*	1,188,000	314,200	49,310	497,600*
TOTAL	20,230,000	3,230,000	128,200	1,054,000*	6,966,000	1,227,000	133,800	392,200*	7,247,000	1,201,000	103,000	497,600*

* TRA EMERGENCY GENERATOR

DETAILS MAY NOT ADD UP TO TOTALS BECAUSE OF ROUNDING

INEL WATER USAGE SUMMARY IN THOUSAND GALLONS

RECORD-TO-DATE

AREA	1971-1973	1974	1975	TOTAL
ANL	291,300	112,400	174,600	578,300
ARA	86,600	28,370	41,360	156,300
CFA	341,200	127,100	117,600	585,900
CPP	1,005,000	414,700	367,400	1,787,000
NRF	1,329,000	838,900	606,400	2,774,000
PBF	27,490	8,842	8,119	44,450
TAN	123,600	52,280	96,640	272,600
TRA	4,213,000	1,296,000	1,083,000	6,592,000
TOTAL	7,417,000	2,878,000	2,495,000	12,790,000

DETAILS MAY NOT ADD UP TO TOTALS BECAUSE OF ROUNDING

LIST OF REPORTS

INEL INDUSTRIAL WASTE MANAGEMENT INFORMATION SYSTEM (IWMIS)

Idaho National Engineering Laboratory

Report 1	INEL Monthly Water Usage Summary
Report 2	INEL Year-to-Date Water Usage Summary
Report 3	INEL Industrial Waste Summary
Report 4	INEL Airborne & Liquid Disposed Substances Summary
Report 5	INEL Monthly Fuel Oil Summary
Report 6	INEL Year-to-Date Fuel Oil Summary

Aerojet Nuclear Company

Report 104	TRA Airborne Disposed Substances Summary
Report 105	TRA Liquid Disposed Substances Summary
Report 106	TRA Industrial Waste Summary
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Allied Chemical Corporation

Report 204	CPP Airborne Disposed Substances Summary
Report 205	CPP Liquid Disposed Substances Summary
Report 206	CPP Industrial Waste Summary
Report 207	CPP Water Usage and Disposal Summary
Report 208	CPP Fuel Oil Usage & Stack Effluents Summary

acility

NRF Airborne Disposed Substances Summary
NRF Liquid Disposed Substances Summary
NRF Industrial Waste Summary
NRF Water Usage and Disposal Summary
NRF Fuel Oil Usage & Stack Effluents Summary

.al Laboratory

4 ANL Airborne Disposed Substances Summary
5 ANL Liquid Disposed Substances Summary
.6 ANL Industrial Waste Summary
)7 ANL Water Usage and Disposal Summary
)8 ANL Fuel Oil Usage & Stack Effluents Summary

IDAHO OPERATIONS OFFICE
U. S. ENERGY RESEARCH AND DEVELOPMENT ADMINISTRATION
INEL INDUSTRIAL WASTE MANAGEMENT INFORMATION SYSTEM

INEL MONTHLY WATER USAGE SUMMARY
DECEMBER 1975

(ALL VOLUMES = NEAREST THOUSAND GALLONS)

AREA OF ORIGIN	MONTHLY VOLUME PUMPED	MONTHLY VOLUME DISPOSED					ACCOUNTA-BILITY (%)
		AIR	SURFACE	SUBSURFACE	SEWAGE	TOTAL	
ANL	10,164	5,382	3,752		547 *	9,681	95.2
AKA	3,618	*	3,444 *	*	174 *	3,618	100.0
CFA	5,497	*	65 *	151	4,052	4,268	77.6
CPP	29,630		*	23,190	738	23,928	80.8
NRF	24,389	5,334 *	16,910 *		1,549	23,793	97.6
PBF	518	76	*	313 *	40 *	429	82.8
TAN	7,073	*	3,200 *	986 *	324 *	4,510	63.8
TRA	78,890	25,270	11,940 *	31,400	543	69,153	87.7
GRAND TOTALS	159,779	36,062	39,311	56,040	7,967	139,380	87.7

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

IDAHO OPERATIONS OFFICE
U. S. ENERGY RESEARCH AND DEVELOPMENT ADMINISTRATION
INEL INDUSTRIAL WASTE MANAGEMENT INFORMATION SYSTEM

INEL YEAR-TO-DATE WATER USAGE SUMMARY
FOR JANUARY THROUGH DECEMBER 1975

(ALL VOLUMES = NEAREST THOUSAND GALLONS)

AREA OF ORIGIN	YEARLY VOLUME PUMPED	YEARLY VOLUME DISPOSED					ACCOUNTA-BILITY (%)
		AIR	SURFACE	SUBSURFACE	SEWAGE	TOTAL	
ANL	174,619	97,835	59,221	2	5,943 *	163,001	93.3
ARA	41,363	*	5,821 *	15,421 *	1,218 *	22,460	54.3
CFA	117,600	*	47,137 *	1,669	46,479	95,285	81.0
CPP	367,360		9,504 *	274,690	9,495	293,689	79.9
NRF	606,374	209,889 *	352,340 *		13,167	575,396	94.9
PBF	8,121	341	*	1,685 *	1,627 *	3,653	45.0
TAN	96,643	*	33,643 *	36,172 *	5,096 *	74,911	77.5
TRA	1,083,006	321,470	288,520 *	342,570	7,452	960,012	88.6
GRAND TOTALS	2,495,086	629,535	796,186	672,209	90,477	2,188,407	87.7

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

INEL INDUSTRIAL WASTE SUMMARY
DECEMBER 1975

AREA OF ORIGIN / TYPE OF WASTE		MONTHLY VOLUME OR WEIGHT	UNITS	YEAR-TO-DATE VOLUME OR WEIGHT	UNITS
ANL					
DISPOSED WASTE					
1 - TRASH	SOLID	120.0	CU. YD.	2,040.0	CU. YD.
2 - CAFETERIA GARBAGE	SOLID	24.0	CU. YD.	408.0	CU. YD.
4 - MASONRY AND CONCRETE	SOLID	18.0	CU. YD.	18.0	CU. YD.
5 - SCRAP METAL	SOLID			35.0	CU. YD.
6 - OIL	LIQUID			556.0	GALLONS
8 - CHEMICALS	LIQUID			1.0	GALLONS
8 - CHEMICALS	SOLID			15.0	POUNDS
9 - OTHER	SOLID			.3	CU. FT.
CFA					
DISPOSED WASTE					
1 - TRASH	SOLID	215.0	CU. YD.	2,722.0	CU. YD.
2 - CAFETERIA GARBAGE	SOLID	60.0	CU. YD.	819.0	CU. YD.
3 - WOOD AND SCRAP LUMBER	SOLID	12.0	CU. YD.	36.0	CU. YD.
4 - MASONRY AND CONCRETE	SOLID	9.0	CU. YD.	129.0	CU. YD.
5 - SCRAP METAL	SOLID			17.0	CU. YD.
CPP					
DISPOSED WASTE					
1 - TRASH	SOLID	273.0	CU. YD.	2,866.0	CU. YD.
2 - CAFETERIA GARBAGE	SOLID	72.0	CU. YD.	790.0	CU. YD.
4 - MASONRY AND CONCRETE	SOLID			6.0	CU. YD.
5 - SCRAP METAL	SOLID			10.0	CU. YD.
NRF					
DISPOSED WASTE					
1 - TRASH	SOLID	300.0	CU. YD.	4,753.0	CU. YD.
2 - CAFETERIA GARBAGE	SOLID	108.0	CU. YD.	1,532.0	CU. YD.
3 - WOOD AND SCRAP LUMBER	SOLID	19.0	CU. YD.	422.5	CU. YD.
4 - MASONRY AND CONCRETE	SOLID	14.9	CU. YD.	199.1	CU. YD.
5 - SCRAP METAL	SOLID	10.8	CU. YD.	77.9	CU. YD.
7 - SOLVENTS	LIQUID			21.0	GALLONS
8 - CHEMICALS	LIQUID	200.0	GALLONS	200.0	GALLONS
STORED WASTE					
5 - SCRAP METAL	SOLID			6.2	CU. YD.
6 - OIL	LIQUID	1,055.0	GALLONS	8,040.0	GALLONS
9 - OTHER	SOLID			4.0	CU. FT.
PBF					
DISPOSED WASTE					
4 - MASONRY AND CONCRETE	SOLID			9.0	CU. YD.

INEL INDUSTRIAL WASTE SUMMARY
DECEMBER 1975

AREA OF ORIGIN / TYPE OF WASTE		MONTHLY VOLUME OR WEIGHT	UNITS	YEAR-TO-DATE VOLUME OR WEIGHT	UNITS
TAN					
DISPOSED WASTE					
1 - TRASH	SOLID	360.0	CU. YD.	3,503.0	CU. YD.
2 - CAFETERIA GARBAGE	SOLID			69.0	CU. YD.
3 - WOOD AND SCRAP LUMBER	SOLID			6.0	CU. YD.
4 - MASONRY AND CONCRETE	SOLID	3.0	CU. YD.	3.0	CU. YD.
5 - SCRAP METAL	SOLID	3.0	CU. YD.	145.0	CU. YD.
8 - CHEMICALS	LIQUID			.8	GALLONS
9 - OTHER	SOLID			3.4	CU. FT.
STORED WASTE					
1 - TRASH	SOLID			280.0	CU. YD.
2 - CAFETERIA GARBAGE	SOLID			18.0	CU. YD.
4 - MASONRY AND CONCRETE	SOLID			3.0	CU. YD.
TRA					
DISPOSED WASTE					
1 - TRASH	SOLID	292.0	CU. YD.	3,126.0	CU. YD.
2 - CAFETERIA GARBAGE	SOLID	6.0	CU. YD.	134.0	CU. YD.
3 - WOOD AND SCRAP LUMBER	SOLID			40.0	CU. YD.
4 - MASONRY AND CONCRETE	SOLID			6.0	CU. YD.
STORED WASTE					
4 - MASONRY AND CONCRETE	SOLID	3.0	CU. YD.	9.0	CU. YD.
5 - SCRAP METAL	SOLID			12.0	CU. YD.
INEL GRAND TOTALS					
DISPOSED WASTE					
1 - TRASH	SOLID	1,560.0	CU. YD.	19,010.0	CU. YD.
2 - CAFETERIA GARBAGE	SOLID	270.0	CU. YD.	3,752.0	CU. YD.
3 - WOOD AND SCRAP LUMBER	SOLID	31.0	CU. YD.	504.5	CU. YD.
4 - MASONRY AND CONCRETE	SOLID	44.9	CU. YD.	370.1	CU. YD.
5 - SCRAP METAL	SOLID	13.8	CU. YD.	284.9	CU. YD.
6 - OIL	LIQUID			556.0	GALLONS
7 - SOLVENTS	LIQUID			21.0	GALLONS
8 - CHEMICALS	LIQUID	200.0	GALLONS	201.8	GALLONS
8 - CHEMICALS	SOLID			15.0	POUNDS
9 - OTHER	SOLID			3.7	CU. FT.
STORED WASTE					
1 - TRASH	SOLID			280.0	CU. YD.
2 - CAFETERIA GARBAGE	SOLID			18.0	CU. YD.
4 - MASONRY AND CONCRETE	SOLID	3.0	CU. YD.	12.0	CU. YD.

INEL INDUSTRIAL WASTE SUMMARY
DECEMBER 1975

AREA OF ORIGIN / TYPE OF WASTE		MONTHLY VOLUME OR WEIGHT	UNITS	YEAR-TO-DATE VOLUME OR WEIGHT	UNITS
INEL GRAND TOTALS					
STORED WASTE					
5 - SCRAP METAL	SOLID			18.2	CU. YD.
6 - OIL	LIQUID	1,055.0	GALLONS	8,040.0	GALLONS
9 - OTHER	SOLID			4.0	CU. FT.

IDAHO OPERATIONS OFFICE
U. S. ENERGY RESEARCH AND DEVELOPMENT ADMINISTRATION
INEL INDUSTRIAL WASTE MANAGEMENT INFORMATION SYSTEM

INEL AIRBORNE AND LIQUID DISPOSED SUBSTANCES SUMMARY
DECEMBER 1975

ALL FACILITIES	MONTHLY				YEAR-TO-DATE			
SUBSTANCES	ATMOSPHERE (POUNDS)	SURFACE (POUNDS)	SUBSURFACE (POUNDS)	TOTAL (POUNDS)	ATMOSPHERE (POUNDS)	SURFACE (POUNDS)	SUBSURFACE (POUNDS)	TOTAL (POUNDS)
AUTO CLEANERS			344	344			4,456	4,456
BETZ DL 419							1,800	1,800
BETZ DIANODIC 194						1,350	204	1,554
BETZ NEUTRMEEN		17		17		217		217
BETZ 109							70	70
BETZ 406							39	39
BETZ 429							11,400	11,400
BLEACH			30	30			257	257
CALCIUM ION		1	8	9		71	113	184
CHLORIDE ION		42,949	45,013	87,963		442,512	509,649	952,161
HEXAVALENT CR	4	24		28	32	95		127
HYDRAZINE						24	3	27
HYPOCHLORITE		39	159	199		624	1,591	2,215
KWIK KLEEN			100	100			1,200	1,200
LAUNDRY PRODUCTS			346	346			1,754	1,754
MORPHOLINE						72		72
NALCO 7312						392		392
NALCO 7323						408		408
NALCOOL 7351					29	1,824		1,853
NITRATE ION			9,369	9,369			60,963	60,963
NITROGEN DIOXIDE					530,937			530,937
CROCOL 734		1,050		1,050		33,606		33,606

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INEL INDUSTRIAL WASTE MANAGEMENT INFORMATION SYSTEM

INEL AIRBORNE AND LIQUID DISPOSED SUBSTANCES SUMMARY
DECEMBER 1975

ALL FACILITIES	MONTHLY				YEAR-TO-DATE			
SUBSTANCES	ATMOSPHERE (POUNDS)	SURFACE (POUNDS)	SUBSURFACE (POUNDS)	TOTAL (POUNDS)	ATMOSPHERE (POUNDS)	SURFACE (POUNDS)	SUBSURFACE (POUNDS)	TOTAL (POUNDS)
PHOSPHATE ION		1,106	841	1,947		16,795	10,749	27,543
PHOTO LAB CHEMICAL		440		440		5,040		5,040
POLYNODIC 606			4,675	4,675			43,450	43,450
POLYNODIC 633							5,000	5,000
SKASOL		80		80		960		960
SLIMICIDE A-9		440		440		7,080		7,080
SLIMICIDE C-35		168		168		3,196		3,196
SLIMICIDE J-12		348		348		6,220	40	6,260
SLIMICIDE J-9		720	500	1,220		4,480	5,000	9,480
SOAP			387	387			3,421	3,421
SODIUM ION		59,613	29,850	89,463		456,123	324,081	780,204
SULFATE ION		148,206	41,461	189,666		2,068,926	564,280	2,633,206
SULFITE ION		55	4	60		661	224	885
SULFUR DIOXIDE						1,332		1,332
TDS		217,224	309,427	526,651		3,743,543	3,298,572	7,042,115
TOTAL HARDNESS			125,550	125,550			1,179,212	1,179,212
TRIVALENT CR		71		71		389		389
ZINC ION		22		22	4	122		126

SCHED. NO. INF6164-A

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INEL INDUSTRIAL WASTE MANAGEMENT INFORMATION SYSTEM

RUN DATE: 03/05/76

INEL MONTHLY FUEL OIL SUMMARY
DECEMBER 1975

AREA OF ORIGIN	FUEL OIL IN GALLONS					POUNDS DISCHARGED		
	TYPE 2	TYPE 5	TYPE 6	KEROSENE	DIESEL	SO2	NOX	PARTICULATES
ANL	33,840					1,499		27
ARA								
CFA	68,950					3,972		
CPP	197,000					11,348		
NRF		212,500				65,525	5,737	3,804
PBF	3,121					83		
TAN	8,950	88,940				22,092		
TRA		114,600			36,260	30,248		4,756
GRAND TOTALS	311,861	416,040			36,260	134,767	5,737	8,587

SCHED. NO. INF6164-A

IDAHO OPERATIONS OFFICE
U. S. ENERGY RESEARCH AND DEVELOPMENT ADMINISTRATION
INEL INDUSTRIAL WASTE MANAGEMENT INFORMATION SYSTEM

RUN DATE: 03/05/76

INEL YEAR-TO-DATE FUEL OIL SUMMARY
FOR JANUARY THROUGH DECEMBER 1975

AREA OF ORIGIN	FUEL OIL IN GALLONS					POUNDS DISCHARGED		
	TYPE 2	TYPE 5	TYPE 6	KEROSENE	DIESEL	SO2	NOX	PARTICULATES
ANL	530,453					23,956		803
ARA	12,036					357		
CFA	816,140					34,657		
CPP	1,819,620			20,097		75,233		
NRF		1,842,040				538,279	49,733	29,723
PBF	38,122					1,071		
TAN	38,205	862,015		79,740		212,931		23,140
TRA		1,188,240			497,640	314,157		49,313
GRAND TOTALS	3,254,576	3,892,295		99,837	497,640	1,200,641	49,733	102,984

IDAHO OPERATIONS OFFICE
U. S. ENERGY RESEARCH AND DEVELOPMENT ADMINISTRATION
INEL INDUSTRIAL WASTE MANAGEMENT INFORMATION SYSTEM

TRA AIRBORNE DISPOSED SUBSTANCES SUMMARY
FOR JANUARY THROUGH DECEMBER 1975

RELEASE POINT DESCRIPTION SUBSTANCE	JAN JUL	FEB AUG	MAR SEP	APR OCT	MAY NOV	JUN DEC	ANNUAL TOT & AVE
COOLING TOWERS EVAP							
VOLUME (CU.FT. IN 1000)	2,639	3,917	3,617	3,465	4,617	2,283	
	3,628	4,652	3,445	2,597	3,790	3,287	41,937
STEAM LOSS (WATER)							
VOLUME (CU.FT. IN 1000)	135	170	113	107	101	38	
	36	24	51	54	115	91	1,035

NOTE: UNDERLINE = CALCULATED CONCENTRATION BASED UPON CHEMICAL USAGE

TRA LIQUID DISPOSED SUBSTANCES SUMMARY
FOR JANUARY THROUGH DECEMBER 1975

AREA GRAND TOTALS SUBSTANCE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL TOTALS
BETZ DE 419 WEIGHT (POUNDS)								930	870				1,800
BETZ 429 WEIGHT (POUNDS)							475	4,750	4,750	1,425			11,400
CALCIUM ION WEIGHT (POUNDS)							7						7
HYPOCHLORITE WEIGHT (POUNDS)	28	75	47	57	68	58	52	89	65	81	144	91	855
PHOSPHATE ION WEIGHT (POUNDS)	81	691	150	507	877	1,792	380	372	952	239	3,583	841	10,465
POLYNODIC 606 WEIGHT (POUNDS)	3,300	5,500	3,850	6,050	5,775	2,475	3,850			2,200	5,775	4,675	43,450
POLYNODIC 633 WEIGHT (POUNDS)							625	3,125	625	625			5,000
SLIMICIDE J-9 WEIGHT (POUNDS)	250	375	375	500	750	625	375	375		375	500	500	5,000
SODIUM ION WEIGHT (POUNDS)	9,497	13,781	11,135	7,963	11,620	6,789	11,923	13,557	9,963	11,451	11,735	9,027	128,441
SULFATE ION WEIGHT (POUNDS)	116,383	190,249	138,421	117,676	185,041	142,562	178,873	196,270	169,435	140,898	188,820	164,893	1,929,521
SULFITE ION WEIGHT (POUNDS)	4	4	4	4	4	4	3	4	4	3	4	4	46
TDS WEIGHT (POUNDS)	154,370	255,971	171,183	202,736	282,954	162,343	233,358	241,024	209,839	192,950	164,420	220,598	2,491,746
TOTAL HARDNESS WEIGHT (POUNDS)	55,919	88,676	62,595	110,618	154,650	80,980	104,899	119,547	111,785	79,118	84,875	125,550	1,179,212

TRA LIQUID DISPOSED SUBSTANCES SUMMARY
FOR JANUARY THROUGH DECEMBER 1975

RELEASE POINT DESCRIPTION / SUBSTANCE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL TOT & AVE
CHEMICAL WASTE POND SURFACE													
VOLUME (GAL. IN 1000)	1,867	2,479	2,099	1,934	2,399	1,747	2,052	2,768	2,314	2,037	2,157	1,958	25,811
HYDROGEN-ION CONC. (PH)													
SODIUM ION													
CONCENTRATION (PPM)	609.30	665.95	635.51	493.07	580.17	465.39	696.07	586.71	515.72	673.46	651.64	552.13	596.07
WEIGHT (POUNDS)	9,493	13,777	11,132	7,958	11,615	6,785	11,920	13,553	9,959	11,448	11,730	9,022	128,392
SULFATE ION													
CONCENTRATION (PPM)	6037.81	7458.05	5453.74	4997.63	6454.90	8682.63	7117.67	5768.17	6154.62	5738.37	8620.35	7579.21	6,643.08
WEIGHT (POUNDS)	94,072	154,290	95,531	80,660	129,228	126,585	121,885	133,242	118,851	97,547	155,171	123,843	1,430,905
DESERT SURFACE													
VOLUME (GAL. IN 1000)	26,610	43,220	35,620	11,520	15,950	17,540	24,000	4,854	11,030	26,100	16,100	9,984	242,528
HYDROGEN-ION CONC. (PH)													
TDS													
CONCENTRATION (PPM)	239.00	261.00	249.00	235.00	226.00	261.00	284.00	254.00	207.00	248.00	250.00	300.00	251.98
WEIGHT (POUNDS)	52,977	93,966	73,882	22,551	30,027	38,134	56,777	10,270	19,019	53,918	33,528	24,950	509,999
DISPOSAL WELL SUBSURFACE													
VOLUME (GAL. IN 1000)	19,290	25,590	18,600	29,510	36,190	28,260	26,680	34,170	31,650	30,540	30,690	31,400	342,570
HYDROGEN-ION CONC. (PH)	9.5	8.1	9.8	8.5	8.6	8.9	8.4	9.2	8.1	8.4	8.3	8.2	8.7
BETZ DE 419													
CONCENTRATION (PPM)								3.26	3.29				.63
WEIGHT (POUNDS)								930	870				1,800
BETZ 429													
CONCENTRATION (PPM)							2.13	16.66	17.98	5.59			3.99
WEIGHT (POUNDS)							475	4,750	4,750	1,425			11,400
HYPOCHLORITE													
CONCENTRATION (PPM)		.15	.08	.09	.07	.15	.15	.19	.13	.20	.42	.20	.16
WEIGHT (POUNDS)		31	12	22	22	35	33	54	34	52	109	52	456
PHOSPHATE ION													
CONCENTRATION (PPM)	.50	3.24	.97	2.06	2.91	7.61	1.71	1.31	3.61	.94	14.01	3.21	3.66
WEIGHT (POUNDS)	81	691	150	507	877	1,792	380	372	952	239	3,583	841	10,465
POLYNODIC 606													
CONCENTRATION (PPM)	20.50	25.75	24.80	24.57	19.12	10.49	17.29			8.63	22.55	17.84	15.20
WEIGHT (POUNDS)	3,300	5,500	3,850	6,050	5,775	2,475	3,850			2,200	5,775	4,675	43,450

NOTE: UNDERLINE = CALCULATED CONCENTRATION BASED UPON CHEMICAL USAGE

RELEASE POINT DESCRIPTION / SUBSTANCE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL TOT & AVE
PCLYNODIC 633													
CONCENTRATION (PPM)							2.81	10.96	2.37	2.45			1.75
WEIGHT (POUNDS)							625	3,125	625	625			5,000
SLIMICIDE J-9													
CONCENTRATION (PPM)	1.55	1.76	2.42	2.03	2.48	2.65	1.68	1.32		1.47	1.95	1.91	1.75
WEIGHT (POUNDS)	250	375	375	500	750	625	375	375		375	500	500	5,000
SODIUM ION													
CONCENTRATION (PPM)	.02	.02	.02	.02	.02	.02	.02	.02	.02	.02	.02	.02	.02
WEIGHT (POUNDS)	4	4	3	5	5	4	3	4	4	3	5	5	49
SULFATE ION													
CONCENTRATION (PPM)	138.60	168.38	276.32	150.31	184.80	67.75	255.95	221.03	191.52	170.09	131.38	156.65	174.41
WEIGHT (POUNDS)	22,311	35,959	42,890	37,016	55,813	15,977	56,988	63,028	50,585	43,350	33,648	41,049	498,614
SULFITE ION													
CONCENTRATION (PPM)	.02	.02	.02	.02	.01	.02	.01	.01	.01	.01	.01	.02	.02
WEIGHT (POUNDS)	4	4	4	4	4	4	3	4	4	3	4	4	46
TDS													
CONCENTRATION (PPM)	631.00	760.00	628.00	733.00	839.00	516.00	719.00	753.00	704.00	538.00	512.00	748.00	678.05
WEIGHT (POUNDS)	101,393	162,005	97,301	180,185	252,927	121,469	159,794	214,331	185,606	136,866	130,892	195,648	1,938,417
TOTAL HARDNESS													
CONCENTRATION (PPM)	348.00	416.00	404.00	450.00	513.00	344.00	472.00	420.00	424.00	311.00	332.00	480.00	412.48
WEIGHT (POUNDS)	55,919	88,676	62,595	110,618	154,650	80,980	104,899	119,547	111,785	79,118	84,875	125,550	1,179,212
IRRIGATION SURFACE													
VOLUME (GAL. IN 1000)						1,260	7,096	7,762	3,024	1,048			20,190
HYDROGEN-ION CONC. (PH)													
TDS													
CONCENTRATION (PPM)						261.00	284.00	254.00	207.00	248.00			257.16
WEIGHT (POUNDS)						2,739	16,787	16,423	5,214	2,165			43,328
SEWAGE PLANT SURFACE													
VOLUME (GAL. IN 1000)	521	692	570	562	766	651	703	704	594	536	610	543	7,452
HYDROGEN-ION CONC. (PH)	7.6	7.4	7.4	7.4	7.5	7.5	7.4	7.4	7.4	7.5	7.5	7.5	7.5
CALCIUM ION													
CONCENTRATION (PPM)							1.21						.11
WEIGHT (POUNDS)							7						7

NOTE: UNDERLINE = CALCULATED CONCENTRATION BASED UPON CHEMICAL USAGE

RELEASE POINT DESCRIPTION SUBSTANCE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL TOT & AVE
HYPOCHLORITE													
CONCENTRATION (PPM)	6.51	1.54	1.32	1.35	1.09	4.27	3.10	5.92	6.15	6.49	6.84	8.65	6.37
WEIGHT (POUNDS)	28	44	35	34	45	23	18	35	30	29	35	39	395

NOTE: UNDERLINE = CALCULATED CONCENTRATION BASED UPON CHEMICAL USAGE

SCHED. NO. INF6162-B

IDAHO OPERATIONS OFFICE
U. S. ENERGY RESEARCH AND DEVELOPMENT ADMINISTRATION
INEL INDUSTRIAL WASTE MANAGEMENT INFORMATION SYSTEM

RUN DATE: 03/05/76

TRA INDUSTRIAL WASTE SUMMARY
FOR JANUARY THROUGH DECEMBER 1975

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 Y SOLID	150.0	248.0	188.0	266.0	304.0	304.0	190.0	272.0	228.0	342.0	342.0	292.0	3,126.0
2 Y SOLID	12.0	24.0	12.0	24.0	11.0	12.0	6.0	18.0	3.0	3.0	3.0	6.0	134.0
3 Y SOLID					10.0		12.0	6.0		12.0			40.0
4 Y SOLID							6.0						6.0
CFA SALVAGE Y													
STORED WASTE													
5 Y SOLID				12.0									12.0
CFA SCRAPYARD													
STORED WASTE													
4 Y SOLID								6.0				3.0	9.0
GRAND TOTALS													
DISPOSED WASTE													
1 Y SOLID	150.0	248.0	188.0	266.0	304.0	304.0	190.0	272.0	228.0	342.0	342.0	292.0	3,126.0
2 Y SOLID	12.0	24.0	12.0	24.0	11.0	12.0	6.0	18.0	3.0	3.0	3.0	6.0	134.0
3 Y SOLID					10.0		12.0	6.0		12.0			40.0
4 Y SOLID							6.0						6.0
STORED WASTE													
4 Y SOLID								6.0				3.0	9.0
5 Y SOLID				12.0									12.0

IDAHO OPERATIONS OFFICE
U. S. ENERGY RESEARCH AND DEVELOPMENT ADMINISTRATION
INEL INDUSTRIAL WASTE MANAGEMENT INFORMATION SYSTEM

TRA WATER USAGE AND DISPOSAL SUMMARY
FOR JANUARY THROUGH DECEMBER 1975

(ALL VOLUMES = NEAREST THOUSAND GALLONS)

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 (GAL)		30,360	35,540		7	1,535	27,680	280	6,018	27,770	1,476		130,666
3 WATER PUMPED (GAL)		1,061			28		18,140	251					19,480
4 WATER PUMPED (GAL)	75,670	81,990	57,410	78,260	101,400	74,340	53,370	97,770	79,910	62,150	91,700	78,890	932,860
TOTAL WATER PUMPED (GAL)	75,670	113,411	92,950	78,260	101,435	75,875	99,190	98,301	85,928	89,920	93,176	78,890	1,083,006
WATER DISPOSAL													
AIR (GAL)	20,760	30,570	27,900	26,720	35,300	17,360	27,410	34,980	26,150	19,840	29,210	25,270	321,470
SURFACE (GAL) *	28,480	45,700	37,720	13,450	18,350	20,550	33,150	15,380	16,360	29,180	18,260	11,940	288,520
SUBSURFACE (GAL)	19,290	25,590	18,600	29,510	36,190	28,260	26,680	34,170	31,650	30,540	30,690	31,400	342,570
SEWAGE DATA													
BUILD VOL. (GAL)	521	692	570	562	766	651	703	704	594	536	610	543	7,452
BIOCHEMICAL OXYGEN DEMAND (BOD)													
RAW CONC. (PPM)	47.8	60.9	53.0	70.1	59.5	51.2	53.0	36.3	51.8	46.6	83.8	58.1	56.0
FINAL CONC. (PPM)	15.4	22.1	18.2	17.4	15.3	17.4	11.2	13.1	17.6	17.8	31.7	18.8	18.0
% REMOVED	67.8	63.7	65.7	75.2	74.3	66.0	78.9	63.9	66.0	61.8	62.2	67.6	67.9
DISSOLVED OXYGEN (DO)													
RAW CONC. (PPM)	2.4	.6	.2	.9	.4	.5	.7	.2	.8	.5	1.7	1.5	.9
FINAL CONC. (PPM)	4.2	5.0	4.2	3.8	4.0	3.2	4.0	2.3	3.5	4.0	3.7	4.6	3.9
INCREASED FACTOR	.8	7.3	20.0	3.2	9.0	5.4	4.7	10.5	3.4	7.0	1.2	2.1	3.3
SETTLEABLE SOLIDS (SS)													
RAW CONC. (ML/L)	.6	.8	1.8	2.7	1.8	2.1	2.3	3.0	2.3	2.4	3.1	4.5	2.3
FINAL CONC. (ML/L)	.05	.05	.05	.05	.05	.05	.05	.05	.05	.05	.05	.05	.05
% REMOVED	91.7	93.8	97.2	98.1	97.2	97.6	97.8	98.3	97.8	97.9	98.4	98.9	97.8
PH-FINAL	7.9	7.7	7.8	7.9	7.8	7.8	7.8	7.7	7.6	7.5	7.5	7.6	7.7
TOTAL SEWAGE VOL. (GAL)	521	692	570	562	766	651	703	704	594	536	610	543	7,452
TOTAL WATER DISPOSED (GAL)	69,051	102,552	84,790	70,242	90,606	66,821	87,943	85,234	74,754	80,096	78,770	69,153	960,012
ACCOUNTABILITY (%)	91.3	90.4	91.2	89.8	89.3	88.1	88.7	86.7	87.0	89.1	84.5	87.7	88.6

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

TRA FUEL OIL USAGE AND STACK EFFLUENTS SUMMARY
FOR JANUARY THROUGH DECEMBER 1975

(ALL VALUES = NEAREST THOUSAND)

FUEL OIL TYPE / EFFLUENTS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS
DIESEL													
VOLUME (GAL)	38	51	40	36	43	31	41	47	44	43	47	36	497
SO2 (LBS)	1	1	1	1	1	2	2	3	3	2	3	2	22
NOX (LBS)													
PARTICULATES (LBS)													
TYPE 5													
VOLUME (GAL)	150	183	131	117	121	55	49	39	51	60	117	115	1,188
SO2 (LBS)	37	45	32	29	30	13	12	10	13	15	29	28	293
NOX (LBS)													
PARTICULATES (LBS)	6	8	5	5	5	2	2	2	2	2	5	5	49
GRAND TOTALS													
SO2 (LBS)	38	46	33	30	31	15	14	13	16	17	32	30	315
NOX (LBS)													
PARTICULATES (LBS)	6	8	5	5	5	2	2	2	2	2	5	5	49

RELEASE POINT DESCRIPTION SUBSTANCE	JAN JUL	FEB AUG	MAR SEP	APR OCT	MAY NOV	JUN DEC	ANNUAL TOT & AVE
COOLING TOWER							
VOLUME (CU.FT. IN 1000)	4	0	0	0	0	0	
	0	0	0	0	0	0	4

NOTE: UNDERLINE = CALCULATED CONCENTRATION BASED UPON CHEMICAL USAGE

PBF LIQUID DISPOSED SUBSTANCES SUMMARY
FOR JANUARY THROUGH DECEMBER 1975

AREA GRAND TOTALS SUBSTANCE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL TOTALS
BETZ CIANODIC 194 WEIGHT (POUNDS)	184					20							204
BETZ 109 WEIGHT (POUNDS)			1		1				2	65			69
BETZ 406 WEIGHT (POUNDS)						6				33			39
HYDRAZINE WEIGHT (POUNDS)			1			1							2
SLIMICIDE J-12 WEIGHT (POUNDS)									40				40
SODIUM ION WEIGHT (POUNDS)	216	144		72	155		216	144		1	144	216	1,308
SULFATE ION WEIGHT (POUNDS)	264	176		88	206	64	279	176	29	1,219	191	411	3,103
SULFITE ION WEIGHT (POUNDS)					19					1			20

RELEASE POINT DESCRIPTION / SUBSTANCE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL TOT & AVE
CHEM DISPOSAL WELL SUBSURFACE													
VOLUME (GAL. IN 1000)	13	6	7	5	10	12	40	10	22	138	10	15	288
HYDROGEN-ION CONC. (PH)													
BETZ DIANODIC 194													
CONCENTRATION (PPM)						199.72						3.99	8.54
WEIGHT (POUNDS)						20							20
BETZ 109													
CONCENTRATION (PPM)		9.99	13.64		14.98				13.62	56.44			29.16
WEIGHT (POUNDS)			1		1				2	65			69
BETZ 406													
CONCENTRATION (PPM)						64.91				28.65			16.45
WEIGHT (POUNDS)						6				33			39
HYDRAZINE													
CONCENTRATION (PPM)			11.21	7.67	3.83	9.99	.95						1.08
WEIGHT (POUNDS)			1			1							2
SLIMICIDE J-12													
CONCENTRATION (PPM)									217.87				16.66
WEIGHT (POUNDS)									40				40
SODIUM ION													
CONCENTRATION (PPM)	1987.55	2870.91		1722.55	1722.55		645.96	1722.55			1722.55	1722.55	538.71
WEIGHT (POUNDS)	216	144		72	144		216	144			144	216	1,296
SULFATE ION													
CONCENTRATION (PPM)	2436.50	3519.39		2111.63	2463.57	635.44	835.85	2111.63	159.97	1058.37	2287.60	3284.76	1,292.24
WEIGHT (POUNDS)	264	176		88	206	64	279	176	29	1,219	191	411	3,103
WARM WASTE WELL SUBSURFACE													
VOLUME (GAL. IN 1000)	47	19		34	7	53	40	30	350	358	161	298	1,397
HYDROGEN-ION CONC. (PH)													
BETZ DIANODIC 194													
CONCENTRATION (PPM)	468.22												15.78
WEIGHT (POUNDS)	184												184
SODIUM ION													
CONCENTRATION (PPM)					201.56					.20			.99
WEIGHT (POUNDS)					11					1			12

NOTE: UNDERLINE = CALCULATED CONCENTRATION BASED UPON CHEMICAL USAGE

RELEASE POINT DESCRIPTION SUBSTANCE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL TOT & AVE
SULFITE ION													
CONCENTRATION (PPM)					350.65					.35			1.72
WEIGHT (POUNDS)					19					1			20

NOTE: UNDERLINE = CALCULATED CONCENTRATION BASED UPON CHEMICAL USAGE

SCHED. NO. INF6162-8

IDAHO OPERATIONS OFFICE
U. S. ENERGY RESEARCH AND DEVELOPMENT ADMINISTRATION
INEL INDUSTRIAL WASTE MANAGEMENT INFORMATION SYSTEM

RUN DATE: 03/05/76

PBF INDUSTRIAL WASTE SUMMARY
FOR JANUARY THROUGH DECEMBER 1975

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													
4 Y SOLID			6.0					3.0					9.0
GRAND TOTALS													
DISPOSED WASTE													
4 Y SOLID			6.0					3.0					9.0

IDAHO OPERATIONS OFFICE
U. S. ENERGY RESEARCH AND DEVELOPMENT ADMINISTRATION
INEL INDUSTRIAL WASTE MANAGEMENT INFORMATION SYSTEM

PBF WATER USAGE AND DISPOSAL SUMMARY
FOR JANUARY THROUGH DECEMBER 1975

(ALL VOLUMES = NEAREST THOUSAND GALLONS)

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 (GAL)	595	508	354	254	358	3	16	260	479	473	232	265	3,797
2 WATER PUMPED (GAL)				30	477	1,115	1,373	698	158	170	50	253	4,324
TOTAL WATER PUMPED (GAL)	595	508	354	284	835	1,118	1,389	958	637	643	282	518	8,121
WATER DISPOSAL													
AIR (GAL)	29	15	5		38	32			34	107	5	76	341
SURFACE (GAL) *													
SUBSURFACE (GAL) *	60	25	7	39	17	65	80	40	372	496	171	313	1,685
SEWAGE DATA													
619 BUILD VOL. (GAL)						284	293	213	103	19	33	33	978
BIOCHEMICAL OXYGEN DEMAND (BOD)													
RAW CONC. (PPM)													
FINAL CONC. (PPM)													
% REMOVED													
DISSOLVED OXYGEN (DO)													
RAW CONC. (PPM)													
FINAL CONC. (PPM)													
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

PBF WATER USAGE AND DISPOSAL SUMMARY
FOR JANUARY THROUGH DECEMBER 1975

(ALL VOLUMES = NEAREST THOUSAND GALLONS)

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. (GAL)						216	223	162	15	19	7	7	649
BIOCHEMICAL OXYGEN DEMAND (BOD)													
RAW CONC. (PPM)													
FINAL CONC. (PPM)													
% REMOVED													
DISSOLVED OXYGEN (DO)													
RAW CONC. (PPM)													
FINAL CONC. (PPM)													
INCREASED FACTOR													
SETTLEABLE SOLIDS (SS)													
RAW CONC. (ML/L)													
FINAL CONC. (ML/L)													
% REMOVED													
PH-FINAL													
TOTAL SEWAGE VOL. (GAL)						500	516	375	118	38	40	40	1,627
TOTAL WATER DISPOSED (GAL)	89	40	12	39	55	597	596	415	524	641	216	429	3,653
ACCOUNTABILITY (%)	15.0	7.9	3.4	13.7	6.6	53.4	42.9	43.3	82.3	99.7	76.6	82.8	45.0

SCHED. NO. INF6164-C

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INEL INDUSTRIAL WASTE MANAGEMENT INFORMATION SYSTEM

RUN DATE: 03/05/76

PBF FUEL OIL USAGE AND STACK EFFLUENTS SUMMARY
FOR JANUARY THROUGH DECEMBER 1975

(ALL VALUES = NEAREST THOUSAND)

FUEL OIL TYPE EFFLUENTS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS
TYPE 2													
VOLUME (GAL)	10	8	2	6	2				2	2	5	3	40
SO2 (LBS)													
NOX (LBS)													
PARTICULATES (LBS)													
GRAND TOTALS													
SO2 (LBS)													
NOX (LBS)													
PARTICULATES (LBS)													

ARA WATER USAGE AND DISPOSAL SUMMARY
FOR JANUARY THROUGH DECEMBER 1975

(ALL VOLUMES = NEAREST THOUSAND GALLONS)

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 (GAL)	855	774	1,029	856	909	675	969	827	1,014	1,414	1,190	936	11,448
3 WATER PUMPED (GAL)	3,984	4,320	2,066	1,862	2,248	2,268	2,532	2,406	1,537	1,635	2,375	2,682	29,915
TOTAL WATER PUMPED (GAL)	4,839	5,094	3,095	2,718	3,157	2,943	3,501	3,233	2,551	3,049	3,565	3,618	41,363
WATER DISPOSAL													
AIR (GAL) *													
SURFACE (GAL) *									2,377			3,444	5,821
SUBSURFACE (GAL) *						2,769	3,327	3,059		2,875	3,391		15,421
SEWAGE DATA													
BUILD VOL. (GAL) *						174	174	174	174	174	174	174	1,218
BIOCHEMICAL OXYGEN DEMAND (BOD)													
RAW CONC. (PPM)													
FINAL CONC. (PPM)													
% REMOVED													
DISSOLVED OXYGEN (DO)													
RAW CONC. (PPM)													
FINAL CONC. (PPM)													
INCREASED FACTOR													
SETTLEABLE SOLIDS (SS)													
RAW CONC. (ML/L)													
FINAL CONC. (ML/L)													
% REMOVED													
PH-FINAL													
TOTAL SEWAGE VOL. (GAL)						174	174	174	174	174	174	174	1,218
TOTAL WATER DISPOSED (GAL)						2,943	3,501	3,233	2,551	3,049	3,565	3,618	22,460
ACCOUNTABILITY (%)						100.0	100.0	100.0	100.0	100.0	100.0	100.0	54.3

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

SCHED. NO. INF6164-C

IDAHO OPERATIONS OFFICE
U. S. ENERGY RESEARCH AND DEVELOPMENT ADMINISTRATION
INEL INDUSTRIAL WASTE MANAGEMENT INFORMATION SYSTEM

RUN DATE: 03/05/76

ARA FUEL OIL USAGE AND STACK EFFLUENTS SUMMARY
FOR JANUARY THROUGH DECEMBER 1975

(ALL VALUES = NEAREST THOUSAND)

FUEL OIL TYPE EFFLUENTS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS
TYPE 2													
VOLUME (GAL)	3	2	3	2	1				1				12
SO2 (LBS)													
NOX (LBS)													
PARTICULATES (LBS)													
GRAND TOTALS													
SO2 (LBS)													
NOX (LBS)													
PARTICULATES (LBS)													

SCHED. NO. INF6166-C

IDAHO OPERATIONS OFFICE
U. S. ENERGY RESEARCH AND DEVELOPMENT ADMINISTRATION
INEL INDUSTRIAL WASTE MANAGEMENT INFORMATION SYSTEM

RUN DATE: 03/05/76

TAN LIQUID DISPOSED SUBSTANCES SUMMARY
FOR JANUARY THROUGH DECEMBER 1975

AREA GRAND TOTALS SUBSTANCE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL TOTALS
CALCIUM ION WEIGHT (POUNDS)	9	1				18	12						40
CHLORIDE ION WEIGHT (POUNDS)	3,246	4,026	4,005	4,642	3,277	3,792	2,275	2,148	4,490	1,032	3,890	5,249	42,072
HYPOCHLORITE WEIGHT (POUNDS)	24	2				45	32	46	13				162
PHOSPHATE ION WEIGHT (POUNDS)	368	67	67	67	50	50	50	50	50	203	9	28	1,059
SODIUM ION WEIGHT (POUNDS)	2,773	2,882	2,745	3,557	2,759	2,910	1,957	1,751	2,997	963	2,803	3,843	31,940
SULFATE ION WEIGHT (POUNDS)	371	152	452	1,311	1,604	1,137	1,214	959	90	676	995	478	9,439
SULFITE ION WEIGHT (POUNDS)	349	63	63	63	48	48	48	32	48			55	817

TAN LIQUID DISPOSED SUBSTANCES SUMMARY
FOR JANUARY THROUGH DECEMBER 1975

RELEASE POINT DESCRIPTION / SUBSTANCE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL TOT & AVE
DISPOSAL POND SURFACE													
VOLUME (GAL. IN 1000)	395	447	456	572	750	933	914	872	1,677	938	2,883	498	11,335
HYDROGEN-ION CONC. (PH)		7.9	7.8		7.6								7.8
CALCIUM ION													
CONCENTRATION (PPM)	2.83	.25				2.27	1.61						.43
WEIGHT (POUNDS)	9	1				18	12						40
CHLORIDE ION													
CONCENTRATION (PPM)	497.65	878.41	853.10	686.45	261.76	300.21	127.29	158.52	260.15	46.51	58.64	452.63	262.56
WEIGHT (POUNDS)	1,638	3,277	3,246	3,277	1,638	2,336	971	1,153	3,641	364	1,411	1,881	24,833
HYPOCHLORITE													
CONCENTRATION (PPM)	7.27	.64				5.84	4.14	6.39	.93				1.72
WEIGHT (POUNDS)	24	2				45	32	46	13				162
PHOSPHATE ION													
CONCENTRATION (PPM)	101.59	8.97	8.79	7.01	5.34	4.30	4.38	4.60	2.39	12.82			7.43
WEIGHT (POUNDS)	334	33	33	33	33	33	33	33	33	100			698
SODIUM ION													
CONCENTRATION (PPM)	427.11	616.97	561.86	452.02	198.10	206.35	98.30	107.46	171.04	36.35	38.00	293.30	181.77
WEIGHT (POUNDS)	1,406	2,301	2,138	2,158	1,240	1,606	750	782	2,394	285	914	1,219	17,193
SULFATE ION													
CONCENTRATION (PPM)			41.68		90.10	37.74	2.08				6.59		12.59
WEIGHT (POUNDS)			159		564	294	16				159		1,192
SULFITE ION													
CONCENTRATION (PPM)	96.44	8.51	8.34	6.65	5.07	4.08	4.16	4.37	2.27				6.04
WEIGHT (POUNDS)	317	32	32	32	32	32	32	32	32				573
IRRIGATION SURFACE													
VOLUME (GAL. IN 1000)						100	100	100	100				400
HYDROGEN-ION CONC. (PH)													
LOFT DISPOSAL POND SURFACE													
VOLUME (GAL. IN 1000)			77	690	1,436	2,558	15,780	948	630	505	1,190	2,981	26,795
HYDROGEN-ION CONC. (PH)													
CHLORIDE ION													
CONCENTRATION (PPM)			948.13	210.88	124.06	61.11	8.75	125.75	80.80	100.87	107.54	59.76	45.46
WEIGHT (POUNDS)			607	1,214	1,487	1,305	1,153	995	425	425	1,068	1,487	10,166

NOTE: UNDERLINE = CALCULATED CONCENTRATION BASED UPON CHEMICAL USAGE

TAN LIQUID DISPOSED SUBSTANCES SUMMARY
FOR JANUARY THROUGH DECEMBER 1975

RELEASE POINT DESCRIPTION / SUBSTANCE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL TOT & AVE
PHOSPHATE ION													
CONCENTRATION (PPM)			26.13	2.91						.56	.92	1.13	.33
WEIGHT (POUNDS)			17	17						2	9	28	73
SODIUM ION													
CONCENTRATION (PPM)			722.16	220.58	115.90	55.02	8.29	121.44	59.20	112.11	98.17	56.50	42.54
WEIGHT (POUNDS)			462	1,269	1,389	1,175	1,092	961	311	472	975	1,405	9,511
SULFATE ION													
CONCENTRATION (PPM)			382.43	219.28	82.67	37.19	9.10	121.14	17.10	160.42	68.22	19.20	32.96
WEIGHT (POUNDS)			245	1,262	991	794	1,198	959	90	676	677	478	7,370
SULFITE ION													
CONCENTRATION (PPM)			24.80	2.76								2.22	.39
WEIGHT (POUNDS)			16	16								55	87
LOFT DISPOSAL WELL SUBSURFACE													
VOLUME (GAL. IN 1000)	887	3,479	21	20	58	366	3,244	4,133	4,030	2,001	2,084	47	20,370
HYDROGEN-ION CONC. (PH)													
CHLORIDE ION													
CONCENTRATION (PPM)	176.25	15.36											10.30
WEIGHT (POUNDS)	1,305	446											1,751
PHOSPHATE ION													
CONCENTRATION (PPM)	2.26	.58											.20
WEIGHT (POUNDS)	17	17											34
SODIUM ION													
CONCENTRATION (PPM)	151.87	12.12											8.69
WEIGHT (POUNDS)	1,124	352											1,476
SULFATE ION													
CONCENTRATION (PPM)	43.51	3.54											2.50
WEIGHT (POUNDS)	322	103											425
SULFITE ION													
CONCENTRATION (PPM)	2.14	.55											.19
WEIGHT (POUNDS)	16	16											32
LOFT SEPTIC TANK SURFACE													
VOLUME (GAL. IN 1000)			1,484		797	45	45	45	45	45	45	45	2,596
HYDROGEN-ION CONC. (PH)													

NOTE: UNDERLINE = CALCULATED CONCENTRATION BASED UPON CHEMICAL USAGE

TAN LIQUID DISPOSED SUBSTANCES SUMMARY
FOR JANUARY THROUGH DECEMBER 1975

RELEASE POINT DESCRIPTION / SUBSTANCE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL TOT & AVE
LPT DISPOSAL WELL SUBSURFACE													
VOLUME (GAL. IN 1000)	574	876	923	1,821	924	1,285	1,300	1,510	1,395	1,152	799	939	13,498
HYDROGEN-ION CONC. (PH)													
CHLORIDE ION													
CONCENTRATION (PPM)	63.34	41.51	19.71	9.98	19.68	14.15	13.98		36.49	25.25	211.48	240.18	47.27
WEIGHT (POUNDS)	303	303	152	152	152	152	152		425	243	1,411	1,881	5,326
PHOSPHATE ION													
CONCENTRATION (PPM)	3.49	2.29	2.17	1.10	2.17	1.56	1.54	1.33	1.44	10.44			2.23
WEIGHT (POUNDS)	17	17	17	17	17	17	17	17	17	100			253
SODIUM ION													
CONCENTRATION (PPM)	50.63	31.23	18.74	8.55	16.85	12.12	10.65	.65	25.12	21.42	137.04	155.63	33.38
WEIGHT (POUNDS)	243	228	144	130	130	130	116	8	292	206	914	1,219	3,760
SULFATE ION													
CONCENTRATION (PPM)	10.22	6.70	6.36	3.22	6.35	4.56					23.77		4.02
WEIGHT (POUNDS)	49	49	49	49	49	49					159		453
SULFITE ION													
CONCENTRATION (PPM)	3.31	2.17	2.06	1.04	2.06	1.48	1.46	.01	1.36				1.13
WEIGHT (POUNDS)	16	16	16	16	16	16	16		16				128

NOTE: UNDERLINE = CALCULATED CONCENTRATION BASED UPON CHEMICAL USAGE

IDAHO OPERATIONS OFFICE
U. S. ENERGY RESEARCH AND DEVELOPMENT ADMINISTRATION
INEL INDUSTRIAL WASTE MANAGEMENT INFORMATION SYSTEM

TAN INDUSTRIAL WASTE SUMMARY
FOR JANUARY THROUGH DECEMBER 1975

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 CCDAREA													
DISPOSED WASTE													
8 K LIQUID											.8		.8
NAOH													
CFA LANDFILL													
DISPOSED WASTE													
1 Y SOLID	323.0	255.0	280.0	315.0	290.0	240.0	440.0	320.0	320.0	360.0		360.0	3,503.0
2 Y SOLID					14.0	17.0	20.0	18.0					69.0
3 Y SOLID					6.0								6.0
4 Y SOLID												3.0	3.0
5 Y SOLID	17.0	23.0	5.0	12.0	29.0	32.0		18.0		6.0		3.0	145.0
9 F SOLID		.7											.7
BERYLLIUM CHIPS													
9 F SOLID	2.7												2.7
ZIRCONIUM CHIPS													
STORED WASTE													
1 Y SOLID											280.0		280.0
2 Y SOLID											18.0		18.0
4 Y SOLID											3.0		3.0
GRAND TOTALS													
DISPOSED WASTE													
1 Y SOLID	323.0	255.0	280.0	315.0	290.0	240.0	440.0	320.0	320.0	360.0		360.0	3,503.0
2 Y SOLID					14.0	17.0	20.0	18.0					69.0
3 Y SOLID					6.0								6.0
4 Y SOLID												3.0	3.0
5 Y SOLID	17.0	23.0	5.0	12.0	29.0	32.0		18.0		6.0		3.0	145.0
8 K LIQUID											.8		.8
9 F SOLID	2.7	.7											3.4
STORED WASTE													
1 Y SOLID											280.0		280.0
2 Y SOLID											18.0		18.0
4 Y SOLID											3.0		3.0

TAN WATER USAGE AND DISPOSAL SUMMARY
FOR JANUARY THROUGH DECEMBER 1975

(ALL VOLUMES = NEAREST THOUSAND GALLONS)

WELL OR BUILDING NO. / SEWAGE BUILDING NO.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS & AVERAGES
WATER DATA													
LO1 WATER PUMPED (GAL)	829	2,676	839	1,542	1,112	3,000	8,183	2,827	2,533	1,355	1,517	2,434	28,847
LO2 WATER PUMPED (GAL)	58	803	742	1,652	1,179	3,180	11,030	2,810	2,398	3,036	2,913	2,446	32,247
LPT WATER PUMPED (GAL)	574	876	923	1,821	924	1,285	1,300	1,510	1,395	1,152	799	939	13,498
TF1 WATER PUMPED (GAL)	1,224	2,297	1,763	1,551	2,076	1,669	2,179	2,600	1,756	1,453	1,714	1,211	21,493
TF2 WATER PUMPED (GAL)	1	2	2	2	3	3	45	47	63	91	256	43	558
TOTAL WATER PUMPED (GAL)	2,686	6,654	4,269	6,568	5,294	9,137	22,737	9,794	8,145	7,087	7,199	7,073	96,643
WATER DISPOSAL													
AIR (GAL) *													
SURFACE (GAL) *	79	45	146	947	1,947	3,136	16,200	1,385	1,823	994	3,741	3,200	33,643
SUBSURFACE (GAL) *	1,461	4,355	2,406	1,841	1,779	1,696	4,544	5,643	5,425	3,153	2,883	986	36,172
SEWAGE DATA													
BUILD VOL. (GAL)	316	402	387	314	239								1,658
BIOCHEMICAL OXYGEN DEMAND (BOD)													
RAW CONC. (PPM)	51.1	59.9	81.0	97.3	124.9								82.8
FINAL CONC. (PPM)	13.2	18.6	19.2	21.5	20.3								18.6
% REMOVED	74.2	68.9	76.3	77.9	83.7								77.5
DISSOLVED OXYGEN (DO)													
RAW CONC. (PPM)	3.0	3.0	1.4	.7	.1								1.6
FINAL CONC. (PPM)	6.3	5.8	3.6	3.2	1.3								4.0
INCREASED FACTOR	1.1	.9	1.6	3.6	12.0								1.5
SETTLEABLE SOLIDS (SS)													
RAW CONC. (ML/L)													
FINAL CONC. (ML/L)	.05	.05	.05	.05	.05								.05
% REMOVED													
PH-FINAL	7.9	7.9	7.8	7.7	7.6								7.8

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

TAN WATER USAGE AND DISPOSAL SUMMARY
FOR JANUARY THROUGH DECEMBER 1975

(ALL VOLUMES = NEAREST THOUSAND GALLONS)

WELL OR BUILDING NO. / SEWAGE BUILDING NO.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS & AVERAGES
SEWAGE DATA													
623 BUILD VOL. (GAL)						507	636	435	484	449	333	279	3,123
BIOCHEMICAL OXYGEN DEMAND (BOD)													
RAW CONC. (PPM)						111.7	56.5	63.2	60.0	71.9	99.7	76.6	77.1
FINAL CONC. (PPM)						15.7	14.7	10.3	16.6	17.2	26.8	21.9	17.6
% REMOVED						85.9	74.0	83.7	72.3	76.1	73.1	71.4	77.2
DISSOLVED OXYGEN (DO)													
RAW CONC. (PPM)						.3	.4	.1	.7	.8	.1	.6	.4
FINAL CONC. (PPM)						1.4	3.2	2.3	3.0	2.9	3.1	3.4	2.8
INCREASED FACTOR						3.7	7.0	22.0	3.3	2.6	30.0	4.7	6.0
SETTLEABLE SOLIDS (SS)													
RAW CONC. (ML/L)													
FINAL CONC. (ML/L)						.05	.05	.05					.05
% REMOVED													
PH-FINAL						7.5	7.5	7.6	7.5	7.3	7.5	7.7	7.5
736 BUILD VOL. (GAL) *						45	45	45	45	45	45	45	315
BIOCHEMICAL OXYGEN DEMAND (BOD)													
RAW CONC. (PPM)													
FINAL CONC. (PPM)													
% REMOVED													
DISSOLVED OXYGEN (DO)													
RAW CONC. (PPM)													
FINAL CONC. (PPM)													
INCREASED FACTOR													
SETTLEABLE SOLIDS (SS)													
RAW CONC. (ML/L)													
FINAL CONC. (ML/L)													
% REMOVED													
PH-FINAL													
TOTAL SEWAGE VOL. (GAL)	316	402	387	314	239	552	681	480	529	494	378	324	5,096
TOTAL WATER DISPOSED (GAL)	1,856	4,802	2,939	3,102	3,965	5,384	21,425	7,508	7,777	4,641	7,002	4,510	74,911
ACCOUNTABILITY (%)	69.1	72.2	68.8	47.2	74.9	58.9	94.2	76.7	95.5	65.5	97.3	63.8	77.5

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

SCHED. NO. INF6164-C

IDAHO OPERATIONS OFFICE
U. S. ENERGY RESEARCH AND DEVELOPMENT ADMINISTRATION
INEL INDUSTRIAL WASTE MANAGEMENT INFORMATION SYSTEM

RUN DATE: 03/05/76

TAN FUEL OIL USAGE AND STACK EFFLUENTS SUMMARY
FOR JANUARY THROUGH DECEMBER 1975

(ALL VALUES = NEAREST THOUSAND)

FUEL OIL TYPE / EFFLUENTS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS
KEROSENE													
VOLUME (GAL)							38	42					80
SO2 (LBS)													
NOX (LBS)													
PARTICULATES (LBS)													
TYPE 2													
VOLUME (GAL)	4		11		7	3			4			9	38
SO2 (LBS)													
NOX (LBS)													
PARTICULATES (LBS)													
TYPE 5													
VOLUME (GAL)	111	152	93	102	100	46			40	61	69	89	863
SO2 (LBS)	27	37	23	25	25	11			10	15	17	22	212
NOX (LBS)													
PARTICULATES (LBS)	5	6	4	4	4								23
GRAND TOTALS													
SO2 (LBS)	27	37	23	25	25	11			10	15	17	22	212
NOX (LBS)													
PARTICULATES (LBS)	5	6	4	4	4								23

SCHED. NO. INF6166-C

IDAHO OPERATIONS OFFICE
U. S. ENERGY RESEARCH AND DEVELOPMENT ADMINISTRATION
INEL INDUSTRIAL WASTE MANAGEMENT INFORMATION SYSTEM

RUN DATE: 03/05/76

CFA LIQUID DISPOSED SUBSTANCES SUMMARY
FOR JANUARY THROUGH DECEMBER 1975

AREA GRAND TOTALS SUBSTANCE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL TOTALS
AUTO CLEANERS WEIGHT (POUNDS)	376	344	360	360	384	384	384	384	368	376	392	344	4,456
BLEACH WEIGHT (POUNDS)	10	30	30	30	14		14	14	20	35	30	30	257
CHLORIDE ION WEIGHT (POUNDS)	1,214	1,214	1,214	1,214	1,214	1,214	1,214	1,214	1,214	1,214	1,214	1,214	14,568
HYPOCHLORITE WEIGHT (POUNDS)	65	58	73	77	87	61	61	61	64	67	81	88	843
KWIK KLEEN WEIGHT (POUNDS)	100	100	100	100	100	100	100	100	100	100	100	100	1,200
LAUNDRY PRODUCTS WEIGHT (POUNDS)	41	48	48	48	50	50	50	205	305	291	272	346	1,754
SOAP WEIGHT (POUNDS)	250	300			300	300	300	300	300	463	521	387	3,421
SODIUM ION WEIGHT (POUNDS)	786	786	786	786	786	786	786	786	786	786	786	786	9,432

IDAHO OPERATIONS OFFICE
U. S. ENERGY RESEARCH AND DEVELOPMENT ADMINISTRATION
INEL INDUSTRIAL WASTE MANAGEMENT INFORMATION SYSTEM

CFA LIQUID DISPOSED SUBSTANCES SUMMARY
FOR JANUARY THROUGH DECEMBER 1975

RELEASE POINT DESCRIPTION / SUBSTANCE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL TOT & AVE
SEWAGE PLANT SUBSURFACE													
VOLUME (GAL. IN 1000)	5,300	5,081	5,188	3,582	3,180	3,582	4,025	3,610	3,902	3,895	3,031	4,204	48,580
HYDROGEN-ION CONC. (PH)	8.3		7.4	7.5		7.5			7.3				7.6
AUTO CLEANERS													
CONCENTRATION (PPM)	8.50	8.11	8.32	12.04	14.47	12.85	11.43	12.75	11.30	11.57	15.50	9.81	10.99
WEIGHT (POUNDS)	376	344	360	360	384	384	384	384	368	376	392	344	4,456
BLEACH													
CONCENTRATION (PPM)	.23	.71	.69	1.00	.53		.42	.46	.61	1.08	1.19	.86	.63
WEIGHT (POUNDS)	10	30	30	30	14		14	14	20	35	30	30	257
CHLORIDE ION													
CONCENTRATION (PPM)	27.44	28.62	28.03	40.60	45.73	40.60	36.13	40.28	37.27	37.34	47.98	34.59	35.92
WEIGHT (POUNDS)	1,214	1,214	1,214	1,214	1,214	1,214	1,214	1,214	1,214	1,214	1,214	1,214	14,568
HYPOCHLORITE													
CONCENTRATION (PPM)	1.48	1.37	1.68	2.57	3.28	2.04	1.81	2.02	1.96	2.08	3.21	2.50	2.08
WEIGHT (POUNDS)	65	58	73	77	87	61	61	61	64	67	81	88	843
KWIK KLEEN													
CONCENTRATION (PPM)	2.26	2.36	2.31	3.35	3.77	3.35	2.98	3.32	3.07	3.08	3.95	2.85	2.96
WEIGHT (POUNDS)	100	100	100	100	100	100	100	100	100	100	100	100	1,200
LAUNDRY PRODUCTS													
CONCENTRATION (PPM)	.93	1.13	1.11	1.61	1.88	1.67	1.49	6.80	9.37	8.95	10.75	9.86	4.33
WEIGHT (POUNDS)	41	48	48	48	50	50	50	205	305	291	272	346	1,754
SOAP													
CONCENTRATION (PPM)	5.65	7.08			11.30	10.04	8.93	9.96	9.21	14.24	20.60	11.03	8.44
WEIGHT (POUNDS)	250	300			300	300	300	300	300	463	521	387	3,421
SODIUM ION													
CONCENTRATION (PPM)	17.78	18.55	18.16	26.31	29.63	26.31	23.41	26.10	24.15	24.19	31.09	22.42	23.28
WEIGHT (POUNDS)	786	786	786	786	786	786	786	786	786	786	786	786	9,432

NOTE: UNDERLINE = CALCULATED CONCENTRATION BASED UPON CHEMICAL USAGE

CFA INDUSTRIAL WASTE SUMMARY
FOR JANUARY THROUGH DECEMBER 1975

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 Y SOLID	253.0	236.0	308.0	221.0	174.0	214.0	233.0	212.0	233.0	212.0	211.0	215.0	2,722.0
2 Y SOLID	83.0	160.0	84.0	32.0	43.0	95.0	47.0	50.0	15.0	45.0	105.0	60.0	819.0
3 Y SOLID		12.0								12.0		12.0	36.0
4 Y SOLID	18.0	18.0	10.0	23.0	12.0	11.0		22.0			6.0	9.0	129.0
5 Y SOLID	6.0		6.0			5.0							17.0
GRAND TOTALS													
DISPOSED WASTE													
1 Y SOLID	253.0	236.0	308.0	221.0	174.0	214.0	233.0	212.0	233.0	212.0	211.0	215.0	2,722.0
2 Y SOLID	83.0	160.0	84.0	32.0	43.0	95.0	47.0	50.0	15.0	45.0	105.0	60.0	819.0
3 Y SOLID		12.0								12.0		12.0	36.0
4 Y SOLID	18.0	18.0	10.0	23.0	12.0	11.0		22.0			6.0	9.0	129.0
5 Y SOLID	6.0		6.0			5.0							17.0

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INEL INDUSTRIAL WASTE MANAGEMENT INFORMATION SYSTEM

CFA WATER USAGE AND DISPOSAL SUMMARY
FOR JANUARY THROUGH DECEMBER 1975

(ALL VOLUMES = NEAREST THOUSAND GALLONS)

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 (GAL)	6,509	6,471	5,768	5,786	6,779	14,840	17,620	2,123	358	2,121	1,592	5,495	75,462
2 WATER PUMPED (GAL)	2	5	3	66	7	1,911	8,620	15,870	7,480	4,162	4,010	2	42,138
TOTAL WATER PUMPED (GAL)	6,511	6,476	5,771	5,852	6,786	16,751	26,240	17,993	7,838	6,283	5,602	5,497	117,600
WATER DISPOSAL													
AIR (GAL) *													
SURFACE (GAL) *						10,050	22,040	14,380	354	119	129	65	47,137
SUBSURFACE (GAL)	173	125	130	141	139	149	145	128	137	145	106	151	1,669
SEWAGE DATA													
691 BUILD VOL. (GAL)	5,127	4,956	4,058	3,441	3,474	3,567	3,881	3,482	3,765	3,751	2,925	4,052	46,479
BIOCHEMICAL OXYGEN DEMAND (BOD)													
RAW CONC. (PPM)	57.6	51.0	41.2	52.0	106.0	54.8	48.4	33.0	28.0	41.0	48.5	36.2	49.8
FINAL CONC. (PPM)	1.6	1.7	2.8	4.1	6.0	3.8	4.2	6.0	4.5	8.1	13.7		5.1
% REMOVED	97.2	96.7	93.2	92.1	94.3	93.1	91.3	81.8	83.9	80.2	71.8		
DISSOLVED OXYGEN (DO)													
RAW CONC. (PPM)	.5	1.0	.5	.8	.6	1.5	.4	1.3	.8	.8	.2	.7	.8
FINAL CONC. (PPM)	7.2	7.4	6.0	6.0	5.3	3.9	5.1	4.3	5.2	5.1	5.6	6.5	5.6
INCREASED FACTOR	13.4	6.4	11.0	6.5	7.8	1.6	11.8	2.3	5.5	5.4	27.0	8.3	6.0
SETTLEABLE SOLIDS (SS)													
RAW CONC. (ML/L)	2.4	2.0	2.1	9.9	3.4	2.9	3.0	3.9	5.6	3.8	5.0	3.5	4.0
FINAL CONC. (ML/L)	.05	.05	.05	.05	.05	.05	.05	.05	.06	.13	.07	.05	.06
% REMOVED	97.9	97.5	97.6	99.5	98.5	98.3	98.3	98.7	98.9	96.6	98.6	98.6	98.5
PH-FINAL	8.3	7.7	7.4	7.5	7.4	7.5	7.3	7.5	7.3	7.5	7.5	7.7	7.6
TOTAL SEWAGE VOL. (GAL)	5,127	4,956	4,058	3,441	3,474	3,567	3,861	3,482	3,765	3,751	2,925	4,052	46,479
TOTAL WATER DISPOSED (GAL)	5,300	5,081	4,188	3,582	3,613	13,766	26,066	17,990	4,256	4,015	3,160	4,268	95,285
ACCOUNTABILITY (%)	81.4	78.5	72.6	61.2	53.2	82.2	99.3	100.0	54.3	63.9	56.4	77.6	81.0

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

SCHED. NO. INF6164-C

IDAHO OPERATIONS OFFICE
U. S. ENERGY RESEARCH AND DEVELOPMENT ADMINISTRATION
INEL INDUSTRIAL WASTE MANAGEMENT INFORMATION SYSTEM

RUN DATE: 03/05/76

CFA FUEL OIL USAGE AND STACK EFFLUENTS SUMMARY
FOR JANUARY THROUGH DECEMBER 1975

(ALL VALUES = NEAREST THOUSAND)

FUEL OIL TYPE EFFLUENTS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS
TYPE 2													
VOLUME (GAL)	81	193	21	79	25	42	33	42	46	52	134	69	817
SO2 (LBS)	2	5	1	2	1	2	2	2	3	3	8	4	35
NOX (LBS)													
PARTICULATES (LBS)													
GRAND TOTALS													
SO2 (LBS)	2	5	1	2	1	2	2	2	3	3	8	4	35
NOX (LBS)													
PARTICULATES (LBS)													

SCHED. NO. INF6166-A

IDAHO OPERATIONS OFFICE
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INEL INDUSTRIAL WASTE MANAGEMENT INFORMATION SYSTEM

RUN DATE: 03/05/76

CPP AIRBORNE DISPOSED SUBSTANCES SUMMARY
FOR JANUARY THROUGH DECEMBER 1975

AREA GRAND TOTALS SUBSTANCE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL TOTALS
NITROGEN DIOXIDE WEIGHT (POUNDS)						60,700	83,230	7,416	2,191	203,400	174,000		530,937

CPP AIRBORNE DISPOSED SUBSTANCES SUMMARY
FOR JANUARY THROUGH DECEMBER 1975

RELEASE POINT DESCRIPTION SUBSTANCE	JAN JUL	FEB AUG	MAR SEP	APR OCT	MAY NOV	JUN DEC	ANNUAL TOT & AVE
STACK 708							
VOLUME (CU.FT. IN 1000)	0	0	0	0	0	488,000	
	699,958	5,043,999	5,043,999	4,050,713	4,319,109	0	19,645,778
NITROGEN DIOXIDE CONCENTRATION (PPM)	.00	.00	.00	.00	.00	1.99	
	1.90	.02	.01	.80	.65	.00	.43
WEIGHT (POUNDS)	0	0	0	0	0	60,700	
	83,230	7,416	2,191	203,400	174,000	0	530,937

NOTE: UNDERLINE = CALCULATED CONCENTRATION

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U. S. ENERGY RESEARCH AND DEVELOPMENT ADMINISTRATION
INEL INDUSTRIAL WASTE MANAGEMENT INFORMATION SYSTEM

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CPP LIQUID DISPOSED SUBSTANCES SUMMARY
FOR JANUARY THROUGH DECEMBER 1975

AREA GRAND TOTALS SUBSTANCE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL TOTALS
CALCIUM ION WEIGHT (POUNDS)	8	10	8	11	15	8	12	12	7	8	6	8	113
CHLORIDE ION WEIGHT (POUNDS)	50,758	51,870	51,317	52,723	41,774	17,882	21,077	36,763	27,573	47,341	47,015	41,918	488,011
HYPOCHLORITE WEIGHT (POUNDS)	20	27	21	27	38	20	31	31	19	21	16	20	291
NITRATE ION WEIGHT (POUNDS)	987	8,608	9,783	7,878	2,567	1,975	1,848	416	11,605	320	5,608	9,369	60,964
SODIUM ION WEIGHT (POUNDS)	34,073	34,207	32,488	33,128	24,662	11,409	13,002	23,622	17,102	27,381	29,354	27,624	308,052
SULFATE ION WEIGHT (POUNDS)	11,749	11,179	9,599	10,504	939	5,156	6,569	5,989					61,684
TDS WEIGHT (POUNDS)	123,604	130,345	127,000	122,817	99,318	58,671	81,159	95,319	126,173	132,811	149,159	113,779	1,360,155

CPP LIQUID DISPOSED SUBSTANCES SUMMARY
FOR JANUARY THROUGH DECEMBER 1975

RELEASE POINT DESCRIPTION / SUBSTANCE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL TOT & AVE
DISPOSAL WELL SUBSURFACE													
VOLUME (GAL. IN 1000)	28,210	26,840	22,160	24,250	20,140	13,170	16,430	19,970	20,950	30,720	28,650	23,190	274,680
HYDROGEN-ION CONC. (PH)	7.5	7.4	7.4	7.6	7.7	7.1	7.6	7.4	7.3	7.3	7.3	7.3	7.4
CHLORIDE ION													
CONCENTRATION (PPM)	216.00	232.00	278.00	261.00	249.00	163.00	154.00	221.00	158.00	185.00	197.00	217.00	212.89
WEIGHT (POUNDS)	50,758	51,870	51,317	52,723	41,774	17,882	21,077	36,763	27,573	47,341	47,015	41,918	488,011
NITRATE ION													
CONCENTRATION (PPM)	4.20	38.50	53.00	39.00	15.30	18.00	13.50	2.50	66.50	1.25	23.50	48.50	26.60
WEIGHT (POUNDS)	987	8,608	9,783	7,878	2,567	1,975	1,848	416	11,605	320	5,608	9,369	60,964
SODIUM ION													
CONCENTRATION (PPM)	145.00	153.00	176.00	164.00	147.00	104.00	95.00	142.00	98.00	107.00	123.00	143.00	134.39
WEIGHT (POUNDS)	34,073	34,207	32,488	33,128	24,662	11,409	13,002	23,622	17,102	27,381	29,354	27,624	308,052
SULFATE ION													
CONCENTRATION (PPM)	50.00	50.00	52.00	52.00	5.60	47.00	48.00	36.00					26.91
WEIGHT (POUNDS)	11,749	11,179	9,599	10,504	939	5,156	6,569	5,989					61,684
TDS													
CONCENTRATION (PPM)	526.00	583.00	688.00	608.00	592.00	534.80	593.00	573.00	723.00	519.00	625.00	589.00	593.37
WEIGHT (POUNDS)	123,604	130,345	127,000	122,817	99,318	58,671	81,159	95,319	126,173	132,811	149,159	113,779	1,360,155
IRRIGATION SURFACE													
VOLUME (GAL. IN 1000)						1,104	2,800	2,800	2,800				9,504
HYDROGEN-ION CONC. (PH)													
SEWAGE PLANT SUBSURFACE													
VOLUME (GAL. IN 1000)	736	695	721	654	696	705	1,069	1,270	843	833	535	738	9,495
HYDROGEN-ION CONC. (PH)	7.8	7.8	7.8	7.7	7.6	7.5	7.4	7.5	7.5	7.4	7.5	7.5	7.6
CALCIUM ION													
CONCENTRATION (PPM)	1.24	1.80	1.33	1.95	2.53	1.33	1.34	1.12	1.06	1.18	1.42	1.27	1.42
WEIGHT (POUNDS)	8	10	8	11	15	8	12	12	7	8	6	8	113
HYPOCHLORITE													
CONCENTRATION (PPM)	3.20	4.62	3.42	5.00	6.50	3.42	3.43	2.89	2.72	3.03	3.64	3.26	3.66
WEIGHT (POUNDS)	20	27	21	27	38	20	31	31	19	21	16	20	291

NOTE: UNDERLINE = CALCULATED CONCENTRATION BASED UPON CHEMICAL USAGE

IDAHO OPERATIONS OFFICE
U. S. ENERGY RESEARCH AND DEVELOPMENT ADMINISTRATION
INEL INDUSTRIAL WASTE MANAGEMENT INFORMATION SYSTEM

CPP INDUSTRIAL WASTE SUMMARY
FOR JANUARY THROUGH DECEMBER 1975

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 LAND FILL													
DISPOSED WASTE													
1 Y SOLID								240.0	186.0		180.0	273.0	879.0
2 Y SOLID								64.0	70.0		64.0	72.0	270.0
CFA LANDFILL													
DISPOSED WASTE													
1 Y SOLID	215.0	205.0	251.0	276.0	274.0	250.0	210.0			306.0			1,987.0
2 Y SOLID	56.0	56.0	64.0	72.0	72.0	64.0	56.0			80.0			520.0
4 Y SOLID		6.0											6.0
5 Y SOLID	6.0				4.0								10.0
GRAND TOTALS													
DISPOSED WASTE													
1 Y SOLID	215.0	205.0	251.0	276.0	274.0	250.0	210.0	240.0	186.0	306.0	180.0	273.0	2,866.0
2 Y SOLID	56.0	56.0	64.0	72.0	72.0	64.0	56.0	64.0	70.0	80.0	64.0	72.0	790.0
4 Y SOLID		6.0											6.0
5 Y SOLID	6.0				4.0								10.0

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IDAHO OPERATIONS OFFICE
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INEL INDUSTRIAL WASTE MANAGEMENT INFORMATION SYSTEM

RUN DATE: 03/05/76

CPP WATER USAGE AND DISPOSAL SUMMARY
FOR JANUARY THROUGH DECEMBER 1975

(ALL VOLUMES = NEAREST THOUSAND GALLONS)

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 (GAL)	30,390	28,910	24,030	33,250	39,200	21,230	20,300	33,140	30,890	46,660	29,730	29,630	367,360
WATER DISPOSAL													
AIR (GAL)													
SURFACE (GAL) *						1,104	2,800	2,800	2,800				9,504
SUBSURFACE (GAL)	28,210	26,840	22,160	24,250	20,140	13,170	16,430	19,970	20,950	30,730	28,650	23,190	274,690
SEWAGE DATA													
BUILD VOL. (GAL)	736	695	721	654	696	705	1,069	1,270	843	833	535	738	9,495
BIOCHEMICAL OXYGEN DEMAND (BOD)													
RAW CONC. (PPM)	99.4	88.2	111.5	102.8	109.3	72.9	76.7	59.4	56.9	69.4	140.0	127.0	92.8
FINAL CONC. (PPM)	17.9	21.2	15.7	19.9	19.5	12.2	10.1	12.5	12.5	15.2	19.4	18.8	16.2
% REMOVED	82.0	76.0	85.9	80.6	82.2	83.3	86.8	79.0	78.0	78.1	86.1	85.2	82.5
DISSOLVED OXYGEN (DO)													
RAW CONC. (PPM)	3.3	3.8	2.9	2.2	2.3	.6	2.3	2.4	3.1	4.3	2.3	2.7	2.7
FINAL CONC. (PPM)	4.5	4.7	3.8	4.7	3.1	1.7	3.0	2.5	3.9	3.9	3.0	3.7	3.5
INCREASED FACTOR	.4	.2	.3	1.1	.3	1.8	.3		.3	-.1	.3	.4	.3
SETTLEABLE SOLIDS (SS)													
RAW CONC. (ML/L)	1.2	3.6	2.9	4.0	5.2	3.6	3.5	3.0	3.2		7.6	6.8	4.1
FINAL CONC. (ML/L)	.05	.05	.05	.05	.05	.05	.05	.05	.05				.05
% REMOVED	95.8	98.6	98.3	98.8	99.0	98.6	98.6	98.3	98.4				
PH-FINAL	7.8	7.8	7.8	7.7	7.6	7.5	7.4	7.5	7.5		7.5	7.5	7.6
TOTAL SEWAGE VOL. (GAL)	736	695	721	654	696	705	1,069	1,270	843	833	535	738	9,495
TOTAL WATER DISPOSED (GAL)	28,946	27,535	22,881	24,904	20,836	14,979	20,299	24,040	24,593	31,563	29,185	23,928	293,689
ACCOUNTABILITY (%)	95.2	95.2	95.2	74.9	53.2	70.6	100.0	72.5	79.6	67.6	98.2	80.8	79.9

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

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RUN DATE: 03/05/76

CPP FUEL OIL USAGE AND STACK EFFLUENTS SUMMARY
FOR JANUARY THROUGH DECEMBER 1975

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CPP

(ALL VALUES = NEAREST THOUSAND)

FUEL OIL TYPE EFFLUENTS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS
KEROSENE													
VOLUME (GAL)						16		4					20
SO2 (LBS)													
NOX (LBS)													
PARTICULATES (LBS)													
TYPE 2													
VOLUME (GAL)	238	230	168	171	147	63	88	76	116	108	219	197	1,821
SO2 (LBS)	6	6	4	5	4	4	5	4	7	.6	13	11	75
NOX (LBS)													
PARTICULATES (LBS)													
GRAND TOTALS													
SO2 (LBS)	6	6	4	5	4	4	5	4	7	6	13	11	75
NOX (LBS)													
PARTICULATES (LBS)													

NRF AIRBORNE DISPOSED SUBSTANCES SUMMARY
FOR JANUARY THROUGH DECEMBER 1975

RELEASE POINT DESCRIPTION SUBSTANCE	JAN JUL	FEB AUG	MAR SEP	APR OCT	MAY NOV	JUN DEC	ANNUAL TOT & AVE
COOLING TOWERS							
VOLUME (CU.FT. IN 1000)	5,080	10,467	384	3,793	2,740	2,099	
	3,115	5,180	1,041	1,934	933	713	37,479

NOTE: UNDERLINE = CALCULATED CONCENTRATION BASED UPON CHEMICAL USAGE

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RUN DATE: 03/05/76

NRF LIQUID DISPOSED SUBSTANCES SUMMARY
FOR JANUARY THROUGH DECEMBER 1975

AREA GRAND TOTALS SUBSTANCE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL TOTALS
CHLORIDE ION WEIGHT (POUNDS)	26,478	27,798	27,281	8,438	41,668	26,509	45,687	31,216	38,368	60,186	34,305	39,582	407,516
HEXAVALENT CR WEIGHT (POUNDS)		34		7				4		8	17	24	94
OROCOL 734 WEIGHT (POUNDS)	3,950	2,400	2,450	2,700	6,250	4,150	5,050	400	3,106	700	1,400	1,050	33,606
PHOSPHATE ION WEIGHT (POUNDS)	1,059	1,467	273	911	2,238	1,832	1,616	588	2,850	819	668	958	15,279
SLIMICIDE A-9 WEIGHT (POUNDS)	440	440	440	440		880	880	480	1,760		880	440	7,080
SLIMICIDE C-35 WEIGHT (POUNDS)	168	168	168	168	168	664	516		336	336	336	168	3,196
SLIMICIDE J-12 WEIGHT (POUNDS)	348	348	348	348	348	1,360	868		696	696	512	348	6,220
SLIMICIDE J-9 WEIGHT (POUNDS)	240	240	240	240	240	480	480	880	480		240	720	4,480
SODIUM ION WEIGHT (POUNDS)	21,643	14,278	13,777	7,880	14,575	24,560	25,532	17,579	11,264	50,489	44,452	47,188	293,217
SULFATE ION WEIGHT (POUNDS)	43,746	59,923	1,691	39,639	135,919	70,035	55,418	30,819	96,660	12,879	22,175	19,551	588,455
TDS WEIGHT (POUNDS)	132,158	591,600		113,586	224,365	139,856	184,726	109,154	143,058	168,911	190,525	192,274	3,190,213

NRF LIQUID DISPOSED SUBSTANCES SUMMARY
FOR JANUARY THROUGH DECEMBER 1975

RELEASE POINT DESCRIPTION / SUBSTANCE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL TOT & AVE
SEWAGE POND SURFACE													
VOLUME (GAL. IN 1000)	834	857	868	955	922	752	1,209	1,367	1,350	1,407	1,097	1,549	13,167
HYDROGEN-ION CONC. (PH)	8.8	8.3	8.0	7.7	10.7	10.0	11.0	10.5	10.5	11.2	10.1	8.9	9.6
WASTE DITCH SURFACE													
VOLUME (GAL. IN 1000)	13,820	29,350	32,750	13,670	36,300	23,400	19,800	8,830	32,900	6,690	12,330	16,910	246,750
HYDROGEN-ION CONC. (PH)	7.3	7.0	7.3	6.7	6.7	6.0	7.2	7.1	6.7	8.6	7.6	7.5	7.1
CHLORIDE ION													
CONCENTRATION (PPM)	230.00	113.70	100.00	74.10	137.80	136.00	277.00	424.40	140.00	1080.00	334.00	281.00	197.90
WEIGHT (POUNDS)	26,478	27,798	27,281	8,438	41,668	26,509	45,687	31,216	38,368	60,186	34,305	39,582	407,516
HEXAVALENT CR													
CONCENTRATION (PPM)		.14		.06				.06		.14	.17	.17	.05
WEIGHT (POUNDS)		34		7				4		8	17	24	94
OROCOL 734													
CONCENTRATION (PPM)	34.25	9.80	8.96	23.67	20.63	21.25	30.56	5.43	11.31	12.54	13.61	7.44	16.32
WEIGHT (POUNDS)	3,950	2,400	2,450	2,700	6,250	4,150	5,050	400	3,106	700	1,400	1,050	33,606
PHOSPHATE ION													
CONCENTRATION (PPM)	9.20	6.00	1.00	8.00	7.40	9.40	9.80	8.00	10.40	14.70	6.50	6.80	7.42
WEIGHT (POUNDS)	1,059	1,467	273	911	2,238	1,832	1,616	588	2,850	819	668	958	15,279
SLIMICIDE A-9													
CONCENTRATION (PPM)	3.82	1.80	1.61	3.86		4.51	5.33	6.51	6.41		8.55	3.12	3.44
WEIGHT (POUNDS)	440	440	440	440		880	880	480	1,760		880	440	7,080
SLIMICIDE C-35													
CONCENTRATION (PPM)	1.46	.69	.61	1.47	.55	3.40	3.12		1.22	6.02	3.27	1.19	1.55
WEIGHT (POUNDS)	168	168	168	168	168	664	516		336	336	336	168	3,196
SLIMICIDE J-12													
CONCENTRATION (PPM)	3.02	1.42	1.27	3.05	1.15	6.96	5.25		2.53	12.47	4.98	2.47	3.02
WEIGHT (POUNDS)	348	348	348	348	348	1,360	868		696	696	512	348	6,220
SLIMICIDE J-9													
CONCENTRATION (PPM)	2.08	.98	.88	2.10	.79	2.46	2.90	11.94	1.75		2.33	5.10	2.18
WEIGHT (POUNDS)	240	240	240	240	240	480	480	880	480		240	720	4,480
SODIUM ION													
CONCENTRATION (PPM)	188.00	58.40	50.50	69.20	48.20	126.00	154.80	239.00	41.10	906.00	432.80	335.00	142.40
WEIGHT (POUNDS)	21,643	14,278	13,777	7,880	14,575	24,560	25,532	17,579	11,264	50,489	44,452	47,188	293,217

NOTE: UNDERLINE = CALCULATED CONCENTRATION BASED UPON CHEMICAL USAGE

NRF LIQUID DISPOSED SUBSTANCES SUMMARY
FOR JANUARY THROUGH DECEMBER 1975

RELEASE POINT DESCRIPTION SUBSTANCE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL TOT & AVE
SULFATE ION													
CONCENTRATION (PPM)	380.00	245.10	6.20	348.10	449.50	359.30	336.00	419.00	352.70	231.10	215.90	138.80	285.77
WEIGHT (POUNDS)	43,746	59,923	1,691	39,639	135,919	70,035	55,418	30,819	96,660	12,879	22,175	19,551	588,455
TDS													
CONCENTRATION (PPM)	1148.00	6510.00		997.50	742.00	717.50	1120.00	1484.00	522.00	3031.00	1855.00	1365.00	1,549.27
WEIGHT (POUNDS)	132,158	591,600		113,586	224,365	139,856	184,726	109,154	143,058	168,911	190,525	192,274	3,190,213

NOTE: UNDERLINE = CALCULATED CONCENTRATION BASED UPON CHEMICAL USAGE

NRF INDUSTRIAL WASTE SUMMARY
FOR JANUARY THROUGH DECEMBER 1975

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 ACID PIT													
DISPOSED WASTE													
8 K LIQUID												200.0	200.0
ACID TANK RINSE WATER													
CFA EXCESS													
STORED WASTE													
9 F SOLID				4.0									4.0
12 LEAD BATTERIES													
CFA LANDFILL													
DISPOSED WASTE													
1 Y SOLID	430.0	350.0	400.0	400.0	464.0	400.0	400.0	409.0	450.0	450.0	300.0	300.0	4,753.0
2 Y SOLID	144.0	112.0	128.0	128.0	144.0	128.0	128.0	128.0	144.0	144.0	96.0	108.0	1,532.0
3 Y SOLID	7.0	28.4	85.6	71.0	28.4	53.3	5.6	24.2	14.2	.5	85.3	19.0	422.5
4 Y SOLID	14.2		.5			3.7	20.0		34.2	78.9	32.7	14.9	199.1
5 Y SOLID	12.0	6.0	7.3	16.6		5.0	5.0		1.5	4.7		10.8	68.9
7 K LIQUID	15.0										6.0		21.0
PAINT THINNER													
STORED WASTE													
5 Y SOLID					6.2								6.2
CFA OIL DEPOT													
STORED WASTE													
6 K LIQUID				1,265.0	2,750.0	1,170.0	50.0		1,000.0		750.0	1,055.0	8,040.0
WASTE OIL													
CFA SCRAPYARD													
DISPOSED WASTE													
5 Y SOLID											9.0		9.0
GRAND TOTALS													
DISPOSED WASTE													
1 Y SOLID	430.0	350.0	400.0	400.0	464.0	400.0	400.0	409.0	450.0	450.0	300.0	300.0	4,753.0
2 Y SOLID	144.0	112.0	128.0	128.0	144.0	128.0	128.0	128.0	144.0	144.0	96.0	108.0	1,532.0
3 Y SOLID	7.0	28.4	85.6	71.0	28.4	53.3	5.6	24.2	14.2	.5	85.3	19.0	422.5
4 Y SOLID	14.2		.5			3.7	20.0		34.2	78.9	32.7	14.9	199.1
5 Y SOLID	12.0	6.0	7.3	16.6		5.0	5.0		1.5	4.7	9.0	10.8	77.9
7 K LIQUID	15.0										6.0		21.0
8 K LIQUID												200.0	200.0
STORED WASTE													
5 Y SOLID					6.2								6.2
6 K LIQUID				1,265.0	2,750.0	1,170.0	50.0		1,000.0		750.0	1,055.0	8,040.0

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												
GRAND TOTALS													
STORED WASTE													
9 F SOLID				4.0									4.0

SCHED. NO. INF6161-C

IDAHO OPERATIONS OFFICE
U. S. ENERGY RESEARCH AND DEVELOPMENT ADMINISTRATION
INEL INDUSTRIAL WASTE MANAGEMENT INFORMATION SYSTEM

RUN DATE: 03/05/76

NRF WATER USAGE AND DISPOSAL SUMMARY
FOR JANUARY THROUGH DECEMBER 1975

(ALL VOLUMES = NEAREST THOUSAND GALLONS)

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 (GAL)	37,230	9,992	15,620	16,030	12,330	17,760	15,500	18,030	5,520	4,704	13,260	23,050	189,026
2 WATER PUMPED (GAL)	1,671	61	26	914	177	478	8,550	10,020	555	127	92	105	22,776
3 WATER PUMPED (GAL)	17,960	28,860	21,160	29,210	73,080	48,350	55,520	55,200	36,830	19,340	7,828	1,234	394,572
TOTAL WATER PUMPED (GAL)	56,861	38,913	36,806	46,154	85,587	66,588	79,570	83,250	42,905	24,171	21,180	24,389	606,374
WATER DISPOSAL													
AIR (GAL) *	38,000	7,830	2,872	28,370	20,500	15,700	23,300	38,750	7,787	14,470	6,976	5,334	209,889
SURFACE (GAL) *	13,820	29,350	32,750	13,670	61,890	48,400	44,800	38,830	32,900	6,690	12,330	16,910	352,340
SUBSURFACE (GAL)													
SEWAGE DATA													
BUILD VOL. (GAL)	834	857	868	955	922	752	1,209	1,367	1,350	1,407	1,097	1,549	13,167
BIOCHEMICAL OXYGEN DEMAND (BOD)													
RAW CONC. (PPM)	137.0	112.0	116.0	67.6	16.7	30.4	54.6	84.7	191.0	267.0	287.0	90.9	121.2
FINAL CONC. (PPM)													
% REMOVED													
DISSOLVED OXYGEN (DO)													
RAW CONC. (PPM)		.1	.1		15.5	11.5	10.6		4.8	13.0	9.9	.1	7.3
FINAL CONC. (PPM)													
INCREASED FACTOR													
SETTLEABLE SOLIDS (SS)													
RAW CONC. (ML/L)													
FINAL CONC. (ML/L)													
% REMOVED													
PH-FINAL	8.8	8.3	8.0	7.7								8.9	8.3
TOTAL SEWAGE VOL. (GAL)	834	857	868	955	922	752	1,209	1,367	1,350	1,407	1,097	1,549	13,167
TOTAL WATER DISPOSED (GAL)	52,654	38,037	36,490	42,995	83,312	64,852	69,309	78,947	42,037	22,567	20,403	23,793	575,396
ACCOUNTABILITY (%)	92.6	97.7	99.1	93.2	97.3	97.4	87.1	94.8	98.0	93.4	96.3	97.6	94.9

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

SCHED. NO. INF6161-C

IDAHO OPERATIONS OFFICE
U. S. ENERGY RESEARCH AND DEVELOPMENT ADMINISTRATION
INEL INDUSTRIAL WASTE MANAGEMENT INFORMATION SYSTEM

RUN DATE: 03/05/76

NRF WATER USAGE AND DISPOSAL SUMMARY
FOR JANUARY THROUGH DECEMBER 1975

(ALL VOLUMES = NEAREST THOUSAND GALLONS)

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 (GAL)	37,230	9,992	15,620	16,030	12,330	17,760	15,500	18,030	5,520	4,704	13,260	23,050	189,026
2 WATER PUMPED (GAL)	1,671	61	26	914	177	478	8,550	10,020	555	127	92	105	22,776
3 WATER PUMPED (GAL)	17,960	28,860	21,160	29,210	73,080	48,350	55,520	55,200	36,830	19,340	7,828	1,234	394,572
TOTAL WATER PUMPED (GAL)	56,861	38,913	36,806	46,154	85,587	66,588	79,570	83,250	42,905	24,171	21,180	24,389	606,374
WATER DISPOSAL													
AIR (GAL) *	38,000	7,830	2,872	28,370	20,500	15,700	23,300	38,750	7,787	14,470	6,976	5,334	209,889
SURFACE (GAL) *	13,820	29,350	32,750	13,670	61,890	48,400	44,800	38,830	32,900	6,690	12,330	16,910	352,340
SUBSURFACE (GAL)													
SEWAGE DATA													
BUILD VOL. (GAL)	834	857	868	955	922	752	1,209	1,367	1,350	1,407	1,097	1,549	13,167
BIOCHEMICAL OXYGEN DEMAND (BOD)													
RAW CONC. (PPM)	137.0	112.0	116.0	67.6	16.7	30.4	54.6	84.7	191.0	267.0	287.0	90.9	121.2
FINAL CONC. (PPM)													
% REMOVED													
DISSOLVED OXYGEN (DO)													
RAW CONC. (PPM)		.1	.1		15.5	11.5	10.6		4.8	13.0	9.9	.1	7.3
FINAL CONC. (PPM)													
INCREASED FACTOR													
SETTLEABLE SOLIDS (SS)													
RAW CONC. (ML/L)													
FINAL CONC. (ML/L)													
% REMOVED													
PH-FINAL	8.8	8.3	8.0	7.7								8.9	8.3
TOTAL SEWAGE VOL. (GAL)	834	857	868	955	922	752	1,209	1,367	1,350	1,407	1,097	1,549	13,167
TOTAL WATER DISPOSED (GAL)	52,654	38,037	36,490	42,995	83,312	64,852	69,309	78,947	42,037	22,567	20,403	23,793	575,396
ACCOUNTABILITY (%)	92.6	97.7	99.1	93.2	97.3	97.4	87.1	94.8	98.0	93.4	96.3	97.6	94.9

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

SCHED. NO. INF6164-C

IDAHO OPERATIONS OFFICE
U. S. ENERGY RESEARCH AND DEVELOPMENT ADMINISTRATION
INEL INDUSTRIAL WASTE MANAGEMENT INFORMATION SYSTEM

RUN DATE: 03/05/76

NRF FUEL OIL USAGE AND STACK EFFLUENTS SUMMARY
FOR JANUARY THROUGH DECEMBER 1975

(ALL VALUES = NEAREST THOUSAND)

FUEL OIL TYPE EFFLUENTS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS
TYPE 5													
VOLUME (GAL)	226	209	181	160	169	101	83	113	67	142	180	213	1,844
SO2 (LBS)	76	59	8	69	58	29	19	28	17	66	43	66	538
NOX (LBS)	6	6	5	4	5	3	2	3	2	4	5	6	51
PARTICULATES (LBS)	4	4		3	3	2	1	2	1	3	3	4	30
GRAND TOTALS													
SO2 (LBS)	76	59	8	69	58	29	19	28	17	66	43	66	538
NOX (LBS)	6	6	5	4	5	3	2	3	2	4	5	6	51
PARTICULATES (LBS)	4	4		3	3	2	1	2	1	3	3	4	30

SCHED. NO. INF6166-A

IDAHO OPERATIONS OFFICE
U. S. ENERGY RESEARCH AND DEVELOPMENT ADMINISTRATION
INEL INDUSTRIAL WASTE MANAGEMENT INFORMATION SYSTEM

RUN DATE: 03/05/76

ANL AIRBORNE DISPOSED SUBSTANCES SUMMARY
FOR JANUARY THROUGH DECEMBER 1975

AREA GRAND TOTALS SUBSTANCE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL TOTALS
HEXAVALENT CR WEIGHT (POUNDS)	3	2	4		4	4	1		3	4	2	4	31
NALCOOL 7351 WEIGHT (POUNDS)							28	1					29
ZINC ION WEIGHT (POUNDS)		1	1		1	1							4

ANL AIRBORNE DISPOSED SUBSTANCES SUMMARY
FOR JANUARY THROUGH DECEMBER 1975

RELEASE POINT DESCRIPTION SUBSTANCE	JAN JUL	FEB AUG	MAR SEP	APR OCT	MAY NOV	JUN DEC	ANNUAL TOT & AVE
COOLING TOWER 757							
VOLUME (CU.FT. IN 1000)	9	6	10	0	13	13	
	9	14	9	12	2	13	110
HEXAVALENT CR							
CONCENTRATION (PPM)	6.25	6.16	6.25	5.33	5.36	5.37	
	1.78	.00	5.39	5.37	11.98	5.37	4.72
WEIGHT (POUNDS)	3	2	4	0	4	4	
	1	0	3	4	2	4	31
NALCCOL 7351							
CONCENTRATION (PPM)	.00	.00	.00	.00	.00	.00	
	48.49	.82	.00	.00	.00	.00	4.17
WEIGHT (POUNDS)	0	0	0	0	0	0	
	28	1	0	0	0	0	29
ZINC ION							
CONCENTRATION (PPM)	.00	1.49	1.49	1.33	1.28	1.29	
	.43	.00	.10	.31	.10	.38	.65
WEIGHT (POUNDS)	0	1	1	0	1	1	
	0	0	0	0	0	0	4

NOTE: UNDERLINE = CALCULATED CONCENTRATION BASED UPON CHEMICAL USAGE

ANL LIQUID DISPOSED SUBSTANCES SUMMARY
FOR JANUARY THROUGH DECEMBER 1975

AREA GRAND TOTALS SUBSTANCE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL TOTALS
BETZ DIANODIC 194 WEIGHT (POUNDS)	450	250	400	250	1	1		1					1,350
BETZ NEUTRMEEN WEIGHT (POUNDS)	18	24	19	20	20	8		45	1	10	34	17	216
CALCIUM ION WEIGHT (POUNDS)		1	1	1	1	1	1	13	2	1	1	1	24
HYDRAZINE WEIGHT (POUNDS)		8	8	8									24
HYPOCHLORITE WEIGHT (POUNDS)		31	31	2									64
MORPHOLINE WEIGHT (POUNDS)		16	16	40									72
NALCO 7312 WEIGHT (POUNDS)		32	32	32	32	32	32	200					392
NALCO 7323 WEIGHT (POUNDS)		48	48	48	48	48	48	120					408
NALCOOL 7351 WEIGHT (POUNDS)		64	64	64	64	64	864	640					1,824
PHOSPHATE ION WEIGHT (POUNDS)			1		134	179	89		60	132	24	120	739
PHOTO LAB CHEMICAL WEIGHT (POUNDS)	320	320	440	440	440	440	440	440	440	440	440	440	5,040
SKASOL WEIGHT (POUNDS)	80	80	80	80	80	80	80	80	80	80	80	80	960
SODIUM ION WEIGHT (POUNDS)	720	432	794	649	628	575	611	360	677	856	731	779	7,812
SULFATE ION WEIGHT (POUNDS)	2,723	1,882	3,015	1,207	5,263	5,157	4,535	1,760	4,125	5,284	1,721	4,333	41,005
SULFITE ION WEIGHT (POUNDS)	1	1	1										3

ANL LIQUID DISPOSED SUBSTANCES SUMMARY
FOR JANUARY THROUGH DECEMBER 1975

AREA GRAND TOTALS SUBSTANCE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL TOTALS
SULFUR DIOXIDE WEIGHT (POUNDS)	423	324	470	115									1,332
TRIVALENT CR WEIGHT (POUNDS)					63	84	42		36	79	14	71	389
ZINC ION WEIGHT (POUNDS)					20	26	13		11	24	4	22	120

RELEASE POINT DESCRIPTION / SUBSTANCE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL TOT & AVE
FACILITY 779 SURFACE													
VOLUME (GAL. IN 1000)	594	629	108	394	586	610	571	431	360	503	478	535	5,799
HYDROGEN-ION CONC. (PH)													
SKASOL													
CONCENTRATION (PPM)	16.15	15.25	89.09	24.32	16.35	15.73	16.79	22.26	26.64	19.05	20.07	17.92	19.84
WEIGHT (POUNDS)	80	80	80	80	80	80	80	80	80	80	80	80	960
INDUSTRIAL POND 746 SURFACE													
VOLUME (GAL. IN 1000)	5,142	3,888	5,600	4,578	5,405	5,279	6,751	5,590	5,448	5,218	2,308	3,752	58,956
HYDROGEN-ION CONC. (PH)													
BETZ DIANODIC 194													
CONCENTRATION (PPM)	10.49	7.71	8.56	6.54									2.74
WEIGHT (POUNDS)	450	250	400	250									1,350
BETZ NEUTRMEEN													
CONCENTRATION (PPM)	.43	.74	.41	.52	.44	.18		.96	.02	.23	1.77	.54	.44
WEIGHT (POUNDS)	18	24	19	20	20	8		45	1	10	34	17	216
CALCIUM ION													
CONCENTRATION (PPM)		.03	.02	.02	.03	.03	.02	.27	.04	.02	.05	.03	.05
WEIGHT (POUNDS)		1	1	1	1	1	1	13	2	1	1	1	24
HYDRAZINE													
CONCENTRATION (PPM)		.25	.17	.21									.05
WEIGHT (POUNDS)		8	8	8									24
HYPOCHLORITE													
CONCENTRATION (PPM)		.96	.67	.06									.13
WEIGHT (POUNDS)		31	31	2									64
MORPHOLINE													
CONCENTRATION (PPM)		.49	.34	1.05									.15
WEIGHT (POUNDS)		16	16	40									72
NALCO 7312													
CONCENTRATION (PPM)		.99	.68	.84	.71	.73	.57	4.29					.80
WEIGHT (POUNDS)		32	32	32	32	32	32	200					392
NALCO 7323													
CONCENTRATION (PPM)		1.48	1.03	1.26	1.06	1.09	.85	2.57					.83
WEIGHT (POUNDS)		48	48	48	48	48	48	120					408

NOTE: UNDERLINE = CALCULATED CONCENTRATION BASED UPON CHEMICAL USAGE

SCHED. NO. INF6162-B

IDAHO OPERATIONS OFFICE
U. S. ENERGY RESEARCH AND DEVELOPMENT ADMINISTRATION
INEL INDUSTRIAL WASTE MANAGEMENT INFORMATION SYSTEM

RUN DATE: 03/05/76

ANL INDUSTRIAL WASTE SUMMARY
FOR JANUARY THROUGH DECEMBER 1975

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													
DISPCSED WASTE													
1 Y SOLID	200.0	160.0	160.0	200.0	160.0	160.0	200.0	160.0	160.0	200.0	160.0	120.0	2,040.0
2 Y SOLID	40.0	32.0	32.0	40.0	32.0	32.0	40.0	32.0	32.0	40.0	32.0	24.0	408.0
5 Y SOLID	12.0	6.0	5.0					12.0					35.0
8 K LIQUID			1.0										1.0
ETHER													
8 P SOLID			15.0										15.0
SODIUM DICHROMATE SLUDGE													
9 F SOLID				.3									.3
ZIRCALLOY-TURNINGS													
CFA OIL-DEPOT													
DISPOSED WASTE													
6 K LIQUID					356.0	130.0	50.0		20.0				556.0
WASTE OIL													
CFA SCRAPYARD													
DISPOSED WASTE													
4 Y SOLID												18.0	18.0
GRAND TOTALS													
DISPOSED WASTE													
1 Y SOLID	200.0	160.0	160.0	200.0	160.0	160.0	200.0	160.0	160.0	200.0	160.0	120.0	2,040.0
2 Y SOLID	40.0	32.0	32.0	40.0	32.0	32.0	40.0	32.0	32.0	40.0	32.0	24.0	408.0
4 Y SOLID												18.0	18.0
5 Y SOLID	12.0	6.0	5.0					12.0					35.0
6 K LIQUID					356.0	130.0	50.0		20.0				556.0
8 K LIQUID			1.0										1.0
8 P SOLID			15.0										15.0
9 F SOLID				.3									.3

SCHED. NO. INF6161-C

IDAHO OPERATIONS OFFICE
U. S. ENERGY RESEARCH AND DEVELOPMENT ADMINISTRATION
INEL INDUSTRIAL WASTE MANAGEMENT INFORMATION SYSTEM

RUN DATE: 03/05/76

ANL WATER USAGE AND DISPOSAL SUMMARY
FOR JANUARY THROUGH DECEMBER 1975

(ALL VOLUMES = NEAREST THOUSAND GALLONS)

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 (GAL)	8,011	4,808	5,890	7,450	10,070	6,608	8,326	7,846	9,120	6,840	4,080	5,082	84,131
2 WATER PUMPED (GAL)	4,839	6,411	6,510	7,450	12,310	8,077	10,180	9,589	9,120	6,840	4,080	5,082	90,488
TOTAL WATER PUMPED (GAL)	12,850	11,219	12,400	14,900	22,380	14,685	18,506	17,435	18,240	13,680	8,160	10,164	174,619
WATER DISPOSAL													
AIR (GAL)	5,931	6,156	6,052	9,217	15,210	7,124	8,727	10,420	11,410	7,230	4,976	5,382	97,835
SURFACE (GAL)	5,142	3,888	5,600	4,578	5,405	5,279	7,016	5,590	5,448	5,215	2,308	3,752	59,221
SUBSURFACE (GAL)											2		2
SEWAGE DATA													
720 BUILD VOL. (GAL) *	12	12	12	12	12	12	12	12	12	12	12	12	144
BIOCHEMICAL OXYGEN DEMAND (BOD)													
RAW CONC. (PPM)													
FINAL CONC. (PPM)													
% REMOVED													
DISSOLVED OXYGEN (DO)													
RAW CONC. (PPM)													
FINAL CONC. (PPM)													
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

IDAHO OPERATIONS OFFICE
U. S. ENERGY RESEARCH AND DEVELOPMENT ADMINISTRATION
INEL INDUSTRIAL WASTE MANAGEMENT INFORMATION SYSTEM

ANL WATER USAGE AND DISPOSAL SUMMARY
FOR JANUARY THROUGH DECEMBER 1975

(ALL VOLUMES = NEAREST THOUSAND GALLONS)

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. (GAL)	594	629	108	394	586	610	571	431	360	503	478	535	5,799
BIOCHEMICAL OXYGEN DEMAND (BOD)													
RAW CONC. (PPM)					96.1		205.0	114.0	112.0	122.0			129.8
FINAL CONC. (PPM)					55.8		35.2	42.4	97.2	42.0			54.5
% REMOVED					41.9		82.8	62.8	13.2	65.6			58.0
DISSOLVED OXYGEN (DO)													
RAW CONC. (PPM)					4.0		.2		1.2	.2			1.4
FINAL CONC. (PPM)					2.4		.2		.3	3.7			1.7
INCREASED FACTOR					-.4				-.8	17.5			.2
SETTLEABLE SOLIDS (SS)													
RAW CONC. (ML/L)													
FINAL CONC. (ML/L)							.05						.05
% REMOVED													
PH-FINAL					7.8		8.1	7.8	7.8	8.7			8.0
TOTAL SEWAGE VOL. (GAL)	606	641	120	406	598	622	583	443	372	515	490	547	5,943
TOTAL WATER DISPOSED (GAL)	11,679	10,685	11,772	14,201	21,213	13,025	16,326	16,453	17,230	12,960	7,776	9,681	163,001
ACCOUNTABILITY (%)	90.9	95.2	94.9	95.3	94.8	88.7	88.2	94.4	94.5	94.7	95.3	95.2	93.3

SCHED. NO. INF6164-C

IDAHO OPERATIONS OFFICE
U. S. ENERGY RESEARCH AND DEVELOPMENT ADMINISTRATION
INEL INDUSTRIAL WASTE MANAGEMENT INFORMATION SYSTEM

RUN DATE: 03/05/76

ANL FUEL OIL USAGE AND STACK EFFLUENTS SUMMARY
FOR JANUARY THROUGH DECEMBER 1975

(ALL VALUES = NEAREST THOUSAND)

FUEL OIL TYPE EFFLUENTS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS
TYPE 2													
VOLUME (GAL)	102	84	52	87	10	9	14	3	17	20	98	34	530
SO2 (LBS)	5	4	2	4			1		1	1	4	1	23
NOX (LBS)													
PARTICULATES (LBS)													
GRAND TOTALS													
SO2 (LBS)	5	4	2	4			1		1	1	4	1	23
NOX (LBS)													
PARTICULATES (LBS)													