Site: St. Louis Airport
ID #: MOD985716615
Break: 2.3
Other: Weston

WESTON
MANAGERS DESIGNERS/CONSULTANTS
7720 LORRAINE AVENUE
SUITE #102
STOCKTON, CA 95210
PHONE: (209) 957-3405

August 12, 1988

RECEIVED
AUG 29 1988
CMPL SECTION

Mr. Glen Kurowski Project Manager
Industrial Waste Management
5050 Oakland Avenue
St. Louis, MO 63110

Mr. Kurowski:

Enclosed please find the analytical results from the waste samples received beginning 17 July, 1988. As you have requested these results represent summary evaluation of the multi-phase, material sampled. These samples were analyzed following approved methods set forth by U.S. EPA SW846, 3rd Edition.

Due to the complexity of the sample material, precautions in handling possibly highly contaminated waste, the change in original work plan from U.S. EPA Contract Laboratory Protocol, and the use of SW-846 for "waste" samples when the original agreement was analysis on soil and water we were unable to deliver the analyses in the 3-5 days you originally requested. Your billing will reflect this change and will be available for your review, next week.

If you should have any questions or concerns on this report, please feel free to call me at our Stockton Laboratory, (209) 957-3405.

Sincerely,
ROY F. WESTON, INC.

Kristan J. Hinds
Project Manager

30285351
Superfund

WESTON
MANAGERS DESIGNERS/CONSULTANTS
7720 LORRAINE AVENUE
SUITE #102
STOCKTON, CA 95210
PHONE: (209) 957-3405

August 12, 1988

Mr. Glen Kurowski Project Manager
Industrial Waste Management
5050 Oakland Avenue
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Sincerely,
ROY F. WESTON, INC.

Kristan J. Hinds
Project Manager

TRANSMISSION REPORT

THIS DOCUMENT (REDUCED SAMPLE ABOVE)
WAS SENT

** COUNT **
# 39

*** SEND ***

NO	REMOTE STATION I.D.	START TIME		DURATION	#PAGES	COMMENT
1	13145348149	8-12-88	2:26PM	15'55"	39	
			TOTAL	0:15'55"	39	

XEROX TELECOPIER 7020

STOCKTON FACILITY PRODUCTION TRAVELLER (WESCA)

REPORT GENERATION: 07/. 10:52 Hr.

WA PRODUCTION BATCH #: 8807S064

CLIENT NAME: INDUSI. WASTE MGMT.
CLIENT PROJ #/NAME:
CLIENT CASE #/NAME:

DATA PACKAGE: CLS
DATA PKG LEVEL: NA
DATA PROTOCOL: EPTOX / /

ANALYTICS PM: K.HINDS
WA WO #:
HAZARD LEVEL: HIGH

DATE RECEIVED: 07/18/88
DATE LOGGED: 07/19/88

DATE INTERNAL REPORTS DUE: 07/21/88
DATE CLIENT REPORTS DUE: 07/22/88

DISTRIBUTION LOG: EX GC GM IN PM 608 - Z

SAMP SET#	CLIENT ID NUMBER/NAME	QA QC	SAMPLE DESCRIP	MATRIX	DATE COLLTD	TYPE CONT	STYL CONT	SIZE CONT	# OF CONT	PRES #ONE	PRES #TWO	SAMPLE LOCATION	SAMPLE DISTRIBUTION	SAMPLE METHOD(s) / (COMMENTS)
001X	AIR001MC		VESSEL	LQ	07/15/88	GL	BOTTLE	2360 ML	1	NONE		WALKIN B1	EX//GC// //IN	608;(SS>PCB);BTU;REACTIVITY;IGNITABILITY;CORROSIVITY;
001V	AIR001VC		VESSEL	LQ	07/15/88	GL	VIAL	40 ML	8	NONE		REFRIG #6	// //GM//	624;(COMPOSITE ALL SAMPLES)
002V	AIR002VC		VESSEL	LQ	07/15/88	GL	VIAL	40 ML	5	NONE		REFRIG #6	// //GM//	624;(COMPOSITE ALL SAMPLES) (ONE SAMPLE IN 120 ML BOTTLE)
001B	AIR001BA		VESSEL	LQ	07/15/88	GL	BOTTLE	2360 ML	1	NONE		WALKIN B1	EX// //GM//	625;
002X	AIR002BA		VESSEL	LQ	07/15/88	GL	BOTTLE	2360 ML	1	NONE		WALKIN B1	EX//GC//GM//IN	625;608;(SS>PCB);BTU;REACTIVITY;IGNITABILITY;CORROSIVITY;
001M	AIR001EP		VESSEL	LQ	07/15/88	PL	BOTTLE	1000 ML	1	HNO3		WALKIN B1	// // //IN	METALS;(FULL EP TOX)
002M	AIR002EP		VESSEL	LQ	07/15/88	PL	BOTTLE	1000 ML	1	HNO3		WALKIN B1	// // //IN	METALS;(FULL EP TOX)

MATRIX KEY CODE: ..ID SL=SLUDGE SO=SOIL WT=WATER OL=OIL LQ=LIQUID WS=WASTE WATEI ..=DRUM WASTE GS=GAS XX=MISC

WESTON ANALYTICS
INORGANIC DATA SUMMARY REPORT

CLIENT: I.W.M
RFW # : 8807S064

DATE RECEIVED: 7/18/88
DATE REPORT: 8/10/88

	LAB NO.:	001	002
	FIELD NO.:	AIR001EP	AIR002EP
	UNITS:	MG/L	MG/L
	C/D FACTOR:	NA	NA
EPTOX:	ARSENIC	3.2U	3.2U
	BARIUM	5.1	7.8
	CADMIUM	.08U	.08U
	CHROMIUM	.16U	.16U
	LEAD	3.2U	3.2U
	MERCURY	6.5U	6.5U
	SELENIUM	3.2U	3.2U
	SILVER	0.42	.16U
BOMB CALORIMETRY:		<500 B.T.U./lb.	<500 B.T.U./lb.
REACTIVE CYANIDE:		52 UG/L	72 UG/L
SULFIDES:		8.4 MG/L	14.8 MG/L
CORROSIVITY:		pH 8.91/NO	pH 9.94/NO
IGNITABILITY:		>200 F	175 F

Roger A. Elliott

ROGER A. ELLIOTT
LABORATORY DIRECTOR
WESTON ANALYTICS

DATE: 8-10-88

WESTON ANALYTICS
7720 LORRAINE AVE. SUITE 102
STOCKTON CA 95210 209 957-3405

GC/MS VOLATILE ORGANICS ANALYSIS

LAB REFERENCE NUMBER : WATER BLANK
CLIENT SAMPLE ID : WATER BLANK
REPORT DATE : 08-02-1988

CLIENT NAME : .
FILE ID : 88M1V02321
BLANK ID : 88M1V02321
SAMPLE TYPE : WATER

DATE SAMPLED : NA
DATE RECEIVED : NA
DATE EXTRACTED : NA
DATE ANALYSED : 07/29/88

10	U	chloromethane	5	U	dibromochloromethane
10	U	bromomethane	5	U	1,1,2-trichloroethane
10	U	vinyl chloride	5	U	benzene
10	U	chloroethane	5	U	cis-1,3-dichloropropene
10		methylene chloride	10	U	2-chloroethyl vinyl ether
8	J	acetone	5	U	bromoform
5	U	carbon disulfide	10	U	4-methyl-2-pentanone
5	U	1,1-dichloroethene	10	U	2-hexanone
5	U	1,1-dichloroethane	5	U	1,1,2,2-tetrachloroethane
5	U	trans-1,2-dichloroethene	5	U	tetrachloroethene
5	U	chloroform	5	U	toluene
5	U	1,2-dichloroethane	5	U	chlorobenzene
.8	J	2-butanone	5	U	ethylbenzene
5	U	1,1,1-trichloroethane	5	U	styrene
5	U	carbon tetrachloride	5	U	xylenes (o+m)
10	U	vinyl acetate	5	U	xylene (p)
5	U	bromodichloromethane	SURROGATE % RECOVERY		
5	U	1,2-dichloropropane	93		1,2-dichloroethane-d4 (SS1)
5	U	trans-1,3-dichloropropene	99		toluene-d8 (SS2)
5	U	trichloroethene	93		bromofluorobenzene (SS3)

RESULT UNITS : ug/l (micrograms per litre)

DILUTION FACTOR : 1

U = indicates the compound was analysed for, but not detected.
The numerical value preceeding 'U' is the limit of detection for that compound, based on dilution.
J = indicates an estimated trace value.

ANALYST : _____

APPROVED BY : _____

WESTON ANALYTICS
7101 LORRAINE AVE. SUITE 102
STOCKTON CA 95210 209 957-1405

GCMS VOLATILE ORGANICS ANALYSIS

LAB REFERENCE NUMBER : 9807564-01
CLIENT SAMPLE ID : COMPOSITE AIR001VC
REPORT DATE : 08-02-1988

CLIENT NAME : INDUST.WASTE MGMT.
FILE ID : 88M1V02328
BLANK ID : 88M1V0233'
SAMPLE TYPE : SOIL/SEDIMENT/SOLIDS

DATE SAMPLED : 07/15/88
DATE RECEIVED : 07/18/88
DATE EXTRACTED : NA
DATE ANALYSED : 07/29/88

50 U	chloromethane	25 U	bromodichloromethane
50 U	bromomethane	25 U	1,1,2-trichloroethane
50 U	vinyl chloride	25 U	benzene
50 U	chloroethane	25 U	cis-1,3-dichloropropene
87	methylene chloride	50 U	2-chloroethyl vinyl ether
140	acetone	25 U	bromoform
25 U	carbon disulfide	50 U	4-methyl-2-pentanone
25 U	1,1-dichloroethene	50 U	2-hexanone
25 U	1,1-dichloroethane	25 U	1,1,2,2-tetrachloroethane
25 U	trans-1,2-dichloroethene	25 U	tetrachloroethene
25 U	chloroform	5 J	toluene
25 U	1,2-dichloroethane	25 U	chlorobenzene
50 U	2-butanone	40	ethylbenzene
25 U	1,1,1-trichloroethane	25 U	styrene
25 U	carbon tetrachloride	25 U	xylenes (o+m)
50 U	vinyl acetate	25 U	xylene (p)
25 U	bromodichloromethane	SURROGATE % RECOVERY	
25 U	1,2-dichloropropane	92	1,2-dichloroethane-d4 (SS1)
25 U	trans-1,3-dichloropropene	101	toluene-d8 (SS2)
25 U	trichloroethene	108	bromofluorobenzene (SS3)

RESULT UNITS : ug/kg (micrograms per kilogram)
Results reported on a wet weight basis.

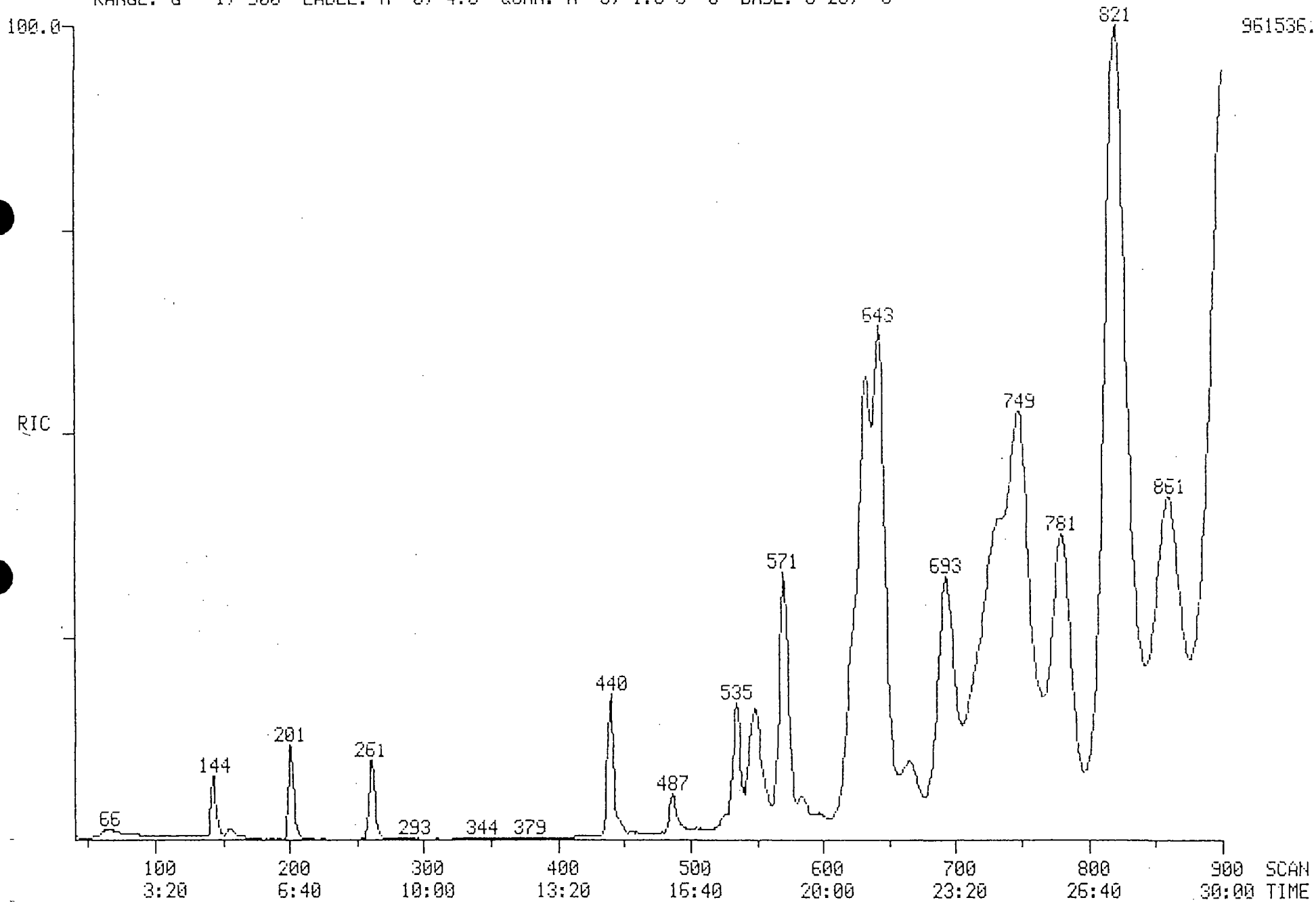
DILUTION FACTOR : 5

U indicates the compound was analysed for, but not detected.
The numerical value preceeding "U" is the limit of detection for that compound, based on dilution.
J indicates an estimated trace value.

ANALYST : GRS

APPROVED BY : [signature]

RIC DATA: 88M1V02326 #1 SCANS 40 TO 900
07/29/88 19:48:00 CALI: 88M1V02326 #2
SAMPLE: 8807S64-01/IWM COMPOSITE AIR001VC 1.0G
CONDS.: 1050,M1
RANGE: G 1, 900 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3



WESTON ANALYTICS
1720 LORRAINE AVE., SUITE 105
STOCKTON CA 95210 209 957-3405

GC/MS VOLATILE ORGANICS ANALYSIS

LAB REFERENCE NUMBER : WATER BLANK
CLIENT SAMPLE ID : 0801 BLANK
REPORT DATE : 08-08-1988

CLIENT NAME :
FILE ID : 88M1V02336
BLANK ID :
SAMPLE TYPE : WATER

DATE SAMPLED :
DATE RECEIVED :
DATE EXTRACTED :
DATE ANALYSED : 08/01/88

10 U	chloromethane	5 U	dibromochloromethane
10 U	bromomethane	5 U	1,1,2-trichloroethane
10 U	vinyl chloride	5 U	benzene
10 U	chloroethane	5 U	cis-1,3-dichloropropene
5 U	methylene chloride	10 U	2-chloroethyl vinyl ether
5 J	acetone	5 U	bromoform
5 U	carbon disulfide	10 U	4-methyl-2-pentanone
5 U	1,1-dichloroethene	10 U	2-hexanone
5 U	1,1-dichloroethane	5 U	1,1,2,2-tetrachloroethane
5 U	trans-1,2-dichloroethene	5 U	tetrachloroethene
5 U	chloroform	5 U	toluene
5 U	1,2-dichloroethane	5 U	chlorobenzene
10 U	2-butanone	5 U	ethylbenzene
5 U	1,1,1-trichloroethane	5 U	styrene
5 U	carbon tetrachloride	5 U	xylenes (o+m)
10 U	vinyl acetate	5 U	xylene (p)
5 U	bromodichloromethane	SURROGATE % RECOVERY	
5 U	1,2-dichloropropane	91	1,2-dichloroethane-d4 (SS1)
5 U	trans-1,3-dichloropropene	103	toluene-d8 (SS2)
5 U	trichloroethene	102	bromofluorobenzene (SS3)

RESULT UNITS : ug/l (micrograms per litre)

DILUTION FACTOR : 1

U = indicates the compound was analysed for, but not detected.
The numerical value preceeding 'U' is the limit of detection for that compound, based on dilution.
J = indicates an estimated trace value.

ANALYST : GRD

APPROVED BY :

AESTON ANALYTICS
7720 LORRAINE AVE. SUITE 102
STOCKTON CA 95210 209 957-3405

GC/MS VOLATILE ORGANICS ANALYSIS

LAB REFERENCE NUMBER : 9307S64-02
CLIENT SAMPLE ID : COMPOSITE AIR002VC
REPORT DATE : 08-03-1993

CLIENT NAME : INDUST.WASTE MGMT.
FILE ID : S3M1V02343
BLANK ID : S3M1V02339
SAMPLE TYPE : SOIL/SEDIMENT/SOLIDS

DATE SAMPLED : 07/15/93
DATE RECEIVED : 07/19/93
DATE EXTRACTED : NA
DATE ANALYSED : 08/01/93

1000 U	chloromethane	500 U	dibromochloromethane
1000 U	bromomethane	500 U	1,1,2-trichloroethane
1000 U	vinyl chloride	890	benzene
1000 U	chloroethane	500 U	cis-1,3-dichloropropene
380 J	methylene chloride	1000 U	2-chloroethyl vinyl ether
3200	acetone	500 U	bromoform
500 U	carbon disulfide	1000 U	4-methyl-2-pentanone
500 U	1,1-dichloroethene	1000 U	2-hexanone
500 U	1,1-dichloroethane	500 U	1,1,2,2-tetrachloroethane
500 U	trans-1,2-dichloroethene	500 U	tetrachloroethene
460 J	chloroform	2400	toluene
500 U	1,2-dichloroethane	500 U	chlorobenzene
1000 U	2-butanone	16000	ethylbenzene
500 U	1,1,1-trichloroethane	500 U	styrene
500 U	carbon tetrachloride	96000	xylenes (o+m)
1000 U	vinyl acetate	88000	xylene (p)
500 U	bromodichloromethane	SURROGATE % RECOVERY	
500 U	1,2-dichloropropane	107	1,2-dichloroethane-d4 (SS1)
500 U	trans-1,3-dichloropropene	107	toluene-d8 (SS2)
500 U	trichloroethene	95	bromofluorobenzene (SS3)

RESULT UNITS : ug/kg (micrograms per kilogram)
Results reported on a wet weight basis.

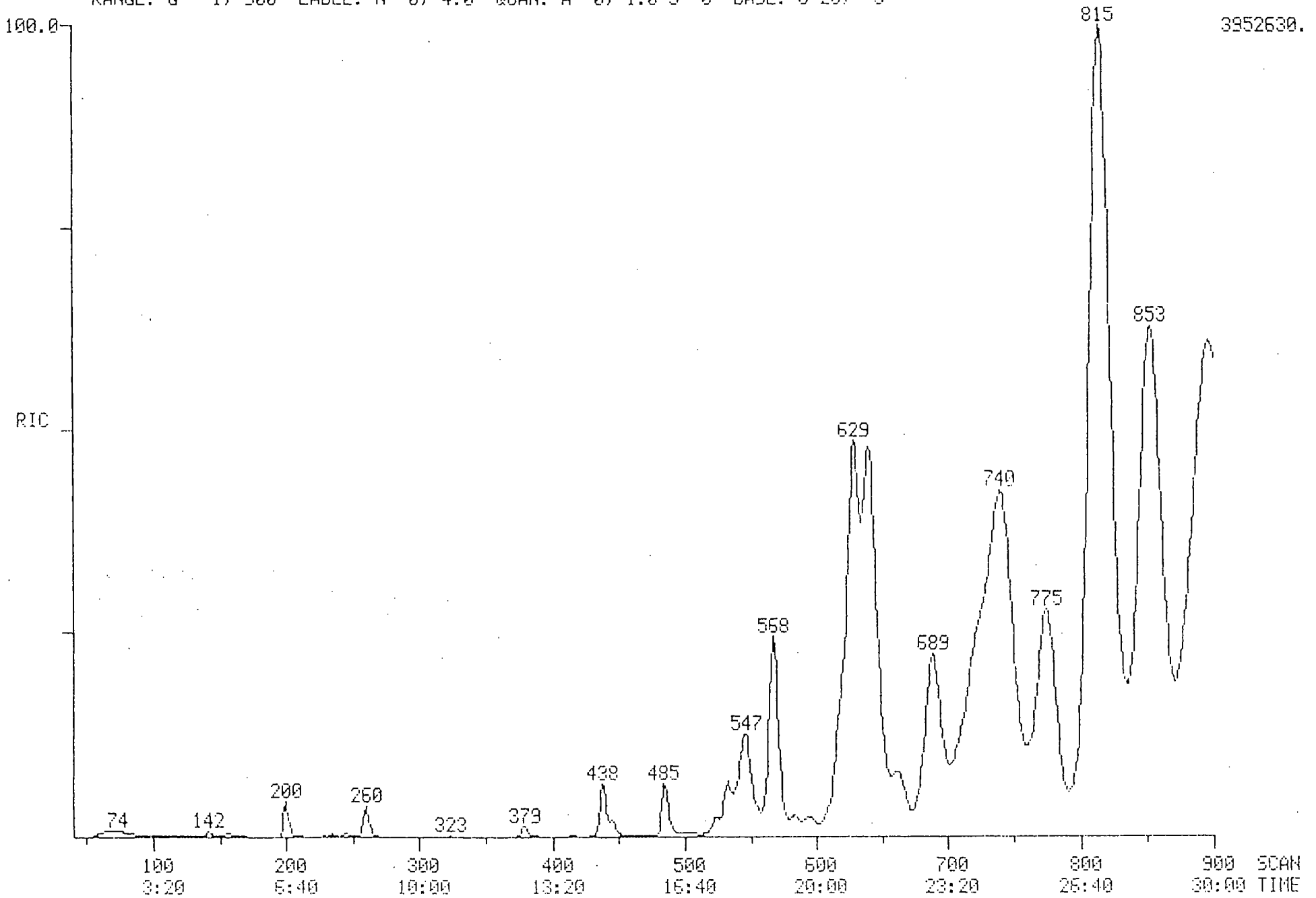
DILUTION FACTOR : 100

U = indicates the compound was analysed for, but not detected.
The numerical value preceeding 'U' is the limit of detection for that compound, based on dilution.
J = indicates an estimated trace value.

ANALYST : ALI

APPROVED BY :

RIC DATA: 88M1V02343 #1 SCANS 40 TO 900
08/01/88 20:54:00 CALI: 88M1V02343 #2
SAMPLE: 8807S64-02/IWM AIR002VC COMPOSITE 100UL DF=100
CONDS.: 1050,M1
RANGE: G 1, 900 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3



WESTON ANALYTICS
7720 LORRAINE AVE., SUITE 105
STOCKTON CA 95210 209 957-3405

GC/MS SEMI-VOLATILE ORGANICS ANALYSIS

LAB REFERENCE NUMBER : 0A88223
CLIENT SAMPLE ID : 0
REPORT DATE : 08-08-1988

CLIENT NAME : 8807S064
FILE ID : 88M3BN1381
BLANK ID : 88M3BN1381
SAMPLE TYPE : WATER

DATE SAMPLED : 0
DATE RECEIVED : 0
DATE EXTRACTED : 07/20/88
DATE ANALYSED : 08/05/88

10 U	n-nitroso-dimethylamine	10 U	dibenzofuran
10 U	phenol	10 U	2,4-dinitrotoluene
10 U	aniline	10 U	2,6-dinitrotoluene
10 U	bis(2-chloroethyl) ether	10 U	diethyl phthalate
10 U	2-chlorophenol	10 U	4-chlorophenyl phenyl ether
10 U	1,3-dichlorobenzene	10 U	fluorene
10 U	1,4-dichlorobenzene	50 U	4-nitroaniline
10 U	benzyl alcohol	50 U	4,6-dinitro-2-methylphenol
10 U	1,2-dichlorobenzene	10 U	n-nitrosodiphenylamine
10 U	2-methylphenol	10 U	4-bromophenyl phenyl ether
10 U	bis(2-chloroisopropyl) ether	10 U	hexachlorobenzene
10 U	4-methylphenol	50 U	pentachlorophenol
10 U	n-nitroso-di-n-propylamine	10 U	phenanthrene
10 U	hexachloroethane	10 U	anthracene
10 U	nitrobenzene	10 U	di-n-butyl phthalate
10 U	isophorone	10 U	fluoranthene
10 U	2-nitrophenol	50 U	benzidine
10 U	2,4-dimethylphenol	10 U	pyrene
50 U	benzoic acid	10 U	butyl benzyl phthalate
10 U	bis(2-chloroethoxy) methane	20 U	3,3'-dichlorobenzidine
10 U	2,4-dichlorophenol	10 U	benzo(a)anthracene
10 U	1,2,4-trichlorobenzene	10 U	bis(2-ethylhexyl)phthalate
10 U	naphthalene	10 U	chrysene
10 U	4-chloroaniline	10 U	di-n-octyl phthalate
10 U	hexachlorobutadiene	10 U	benzo(b)fluoranthene
10 U	4-chloro-3-methylphenol	10 U	benzo(k)fluoranthene
10 U	2-methylnaphthalene	10 U	benzo(a)pyrene
10 U	hexachlorocyclopentadiene	10 U	indeno(1,2,3-cd)pyrene
10 U	2,4,6-trichlorophenol	10 U	dibenz(a,h)anthracene
50 U	2,4,5-trichlorophenol	10 U	benzo(g,h,i)perylene
10 U	2-chloronaphthalene	SURROGATE % RECOVERY	
50 U	2-nitroaniline	31	2-fluorophenol (SS1)
10 U	dimethyl phthalate	66	phenol-d5 (SS2)
10 U	acenaphthylene	58	nitrobenzene-d5 (SS3)
50 U	3-nitroaniline	44	2-fluorobiphenyl
10 U	acenaphthene	68	2,4,6-tribromophenol (SS5)
50 U	2,4-dinitrophenol	64	p-terphenyl-d14 (SS6)
50 U	4-nitrophenol		

RESULT UNITS : ug/l (micrograms per litre)

DILUTION FACTOR : 2

. F indicates the compound was analysed for, but not detected.
The numerical value preceeding 'U' is the limit of detection for that compound, based on dilution.
. F indicates an estimated trace value.

ANALYST : _____

APPROVED BY : _____

WESTON ANALYTICS
7720 LORRAINE AVE. SUITE 102
STOCKTON CA 95210 209 957-3405

GC/MS SEMI-VOLATILE ORGANICS ANALYSIS

LAB REFERENCE NUMBER : BLK-SPK-QA223
CLIENT SAMPLE ID : FOR 8807S064
REPORT DATE : 07-04-1988

CLIENT NAME : IWM
FILE ID : 88M03N1339
BLANK ID : 88M03N1331
SAMPLE TYPE : WATER

DATE SAMPLED : NA
DATE RECEIVED : NA
DATE EXTRACTED : 07/20/88
DATE ANALYSED : 07/29/88

10 U	n-nitroso-dimethylamine	
75	phenol	
10 U	aniline	
10 U	bis(2-chloroethyl) ether	
58	2-chlorophenol	
10 U	1,3-dichlorobenzene	
47	1,4-dichlorobenzene	
10 U	benzyl alcohol	
10 U	1,2-dichlorobenzene	
10 U	2-methylphenol	
10 U	bis(2-chloroisopropyl) ether	
10 U	4-methylphenol	
57	n-nitroso-di-n-propylamine	
10 U	hexachloroethane	
10 U	nitrobenzene	
10 U	isophorone	
10 U	2-nitrophenol	
10 U	2,4-dimethylphenol	
50 U	benzoic acid	
10 U	bis(2-chloroethoxy) methane	
10 U	2,4-dichlorophenol	
51	1,2,4-trichlorobenzene	
10 U	naphthalene	
10 U	4-chloroaniline	
10 U	hexachlorobutadiene	
38	4-chloro-3-methylphenol	
10 U	2-methylnaphthalene	
10 U	hexachlorocyclopentadiene	
10 U	2,4,6-trichlorophenol	
50 U	2,4,5-trichlorophenol	
10 U	2-chloronaphthalene	
50 U	2-nitroaniline	
10 U	dimethyl phthalate	
10 U	acenaphthylene	
50 U	3-nitroaniline	
70	acenaphthene	
50 U	2,4-dinitrophenol	
7 J	4-nitrophenol	

10 U	dibenzofuran
75	2,4-dinitrotoluene
10 U	2,6-dinitrotoluene
10 U	diethyl phthalate
10 U	4-chlorophenyl phenyl ether
10 U	fluorene
50 U	4-nitroaniline
50 U	4,6-dinitro-2-methylphenol
10 U	n-nitrosodiphenylamine
10 U	4-bromophenyl phenyl ether
10 U	hexachlorobenzene
25 J	pentachlorophenol
10 U	phenanthrene
10 U	anthracene
59	di-n-butyl phthalate
10 U	fluoranthene
50 U	benzidine
80	pyrene
10 U	butyl benzyl phthalate
20 U	3,3'-dichlorobenzidine
10 U	benzo(a)anthracene
270	bis(2-ethylhexyl)phthalate
10 U	chrysene
10 U	di-n-octyl phthalate
10 U	benzo(b)fluoranthene
10 U	benzo(k)fluoranthene
10 U	benzo(a)pyrene
10 U	indeno(1,2,3-cd)pyrene
10 U	dibenz(a,h)anthracene
10 U	benzo(g,h,i)perylene
SURROGATE % RECOVERY	
35	2-fluorophenol (SS1)
55	phenol-d5 (SS2)
37	nitrobenzene-d5 (SS3)
75	2-fluorobiphenyl
33	2,4,6-tribromophenol (SS5)
--	o-terphenyl-d14 (SS6)

RESULT UNITS : ug/l micrograms per litre.

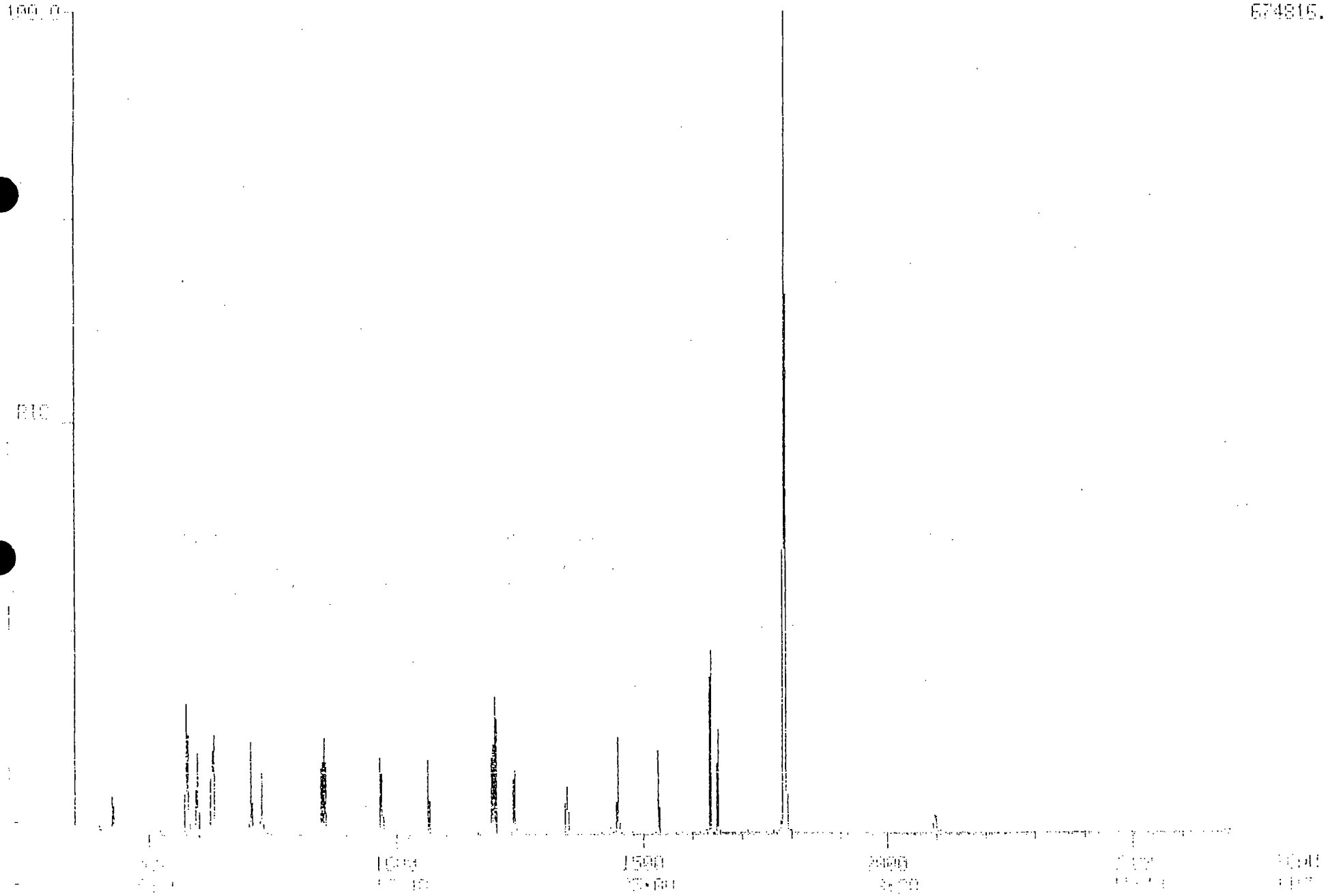
DILUTION FACTOR : 1

U = indicates the compound was analysed for, but not detected.
The numerical value preceeding "U" is the limit of detection for that compound, based on dilution.
J = indicates an estimated trace value.

ANALYST : _____

APPROVED BY : _____

RIC DATA: 88M3BN1339 #1 SCANS 350 TO 2700
07/29/88 5:25:00 CALI: 88M3BN1339 #5
SAMPLE: BLK-SPK-0A88223 (07/20/88) FOR 88075064
CONDS.: BN, INST: 4500, 1L=>2X1ML
RANGE: G 1,2700 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: N 20, 3



WESTON ANALYTICS
7700 LORRAINE AVE. SUITE 102
STOCKTON CA 95210 209 957-0405

GC/MS SEMI-VOLATILE ORGANICS ANALYSIS

LAB REFERENCE NUMBER : 3307S064-01
CLIENT SAMPLE ID : AIR001A
REPORT DATE : 03-04-1998

CLIENT NAME : CWM
FILE ID : 33M38N1341
BLANK ID : 33M38N1381
SAMPLE TYPE : WATER

DATE SAMPLED : 07/15/88
DATE RECEIVED : 07/16/88
DATE EXTRACTED : 07/20/88
DATE ANALYSED : 07/29/88

10	U	n-nitroso-dimethylamine
10	U	phenol
10	U	aniline
10	U	bis(2-chloroethyl) ether
10	U	2-chlorophenol
10	U	1,3-dichlorobenzene
10	U	1,4-dichlorobenzene
10	U	benzyl alcohol
10	U	1,2-dichlorobenzene
10	U	2-methylphenol
10	U	bis(2-chloroisopropyl) ether
6	J	4-methylphenol
10	U	n-nitroso-di-n-propylamine
10	U	hexachloroethane
10	U	nitrobenzene
10	U	isophorone
10	U	2-nitrophenol
10	U	2,4-dimethylphenol
50	U	benzoic acid
10	U	bis(2-chloroethoxy) methane
10	U	2,4-dichlorophenol
10	U	1,2,4-trichlorobenzene
210		naphthalene
10	U	4-chloroaniline
10	U	hexachlorobutadiene
10	U	4-chloro-3-methylphenol
22		2-methylnaphthalene
10	U	hexachlorocyclopentadiene
10	U	2,4,6-trichlorophenol
50	U	2,4,5-trichlorophenol
10	U	2-chloronaphthalene
50	U	2-nitroaniline
10	U	dimethyl phthalate
4	J	acenaphthylene
50	U	3-nitroaniline
6	J	acenaphthene
50	U	2,4-dinitrophenol
50	U	4-nitrophenol
9	J	dibenzofuran
10	U	2,4-dinitrotoluene
10	U	2,6-dinitrotoluene
10	U	diethyl phthalate
10	U	4-chlorophenyl phenyl ether
10	U	fluorene
50	U	4-nitroaniline
50	U	4,6-dinitro-2-methylphenol
10	U	n-nitrosodiphenylamine
10	U	4-bromophenyl phenyl ether
10	U	hexachlorobenzene
50	U	pentachlorophenol
18		phenanthrene
10	U	anthracene
10	U	di-n-butyl phthalate
4	J	fluoranthene
50	U	benzidine
4	J	pyrene
10	U	butyl benzyl phthalate
20	U	3,3'-dichlorobenzidine
10	U	benzo(a)anthracene
11		bis(2-ethylhexyl)phthalate
10	U	chrysene
10	U	di-n-octyl phthalate
10	U	benzo(b)fluoranthene
10	U	benzo(k)fluoranthene
10	U	benzo(a)pyrene
10	U	indeno(1,2,3-cd)pyrene
10	U	dibenz(a,h)anthracene
10	U	benzo(g,h,i)perylene
SURROGATE % RECOVERY		
71		2-fluorophenol (SS1)
101		phenol-d5 (SS2)
102		nitrobenzene-d5 (SS3)
17		2-fluorobiphenyl
31		2,4,6-tribromophenol (SS5)
17		o-terphenyl-d14 (SS6)

RESULT UNITS : ug/l (micrograms per litre)

DILUTION FACTOR : 1

U = indicates the compound was analysed for, but not detected.
The numerical value preceeding 'U' is the limit of detection for that compound, based on dilution.
J = indicates an estimated trace value.

ANALYST :

APPROVED BY :

Laboratory Name WESTON

Case No 88075064

Sample Number
AIR001A

88075064-01
88M3BN1341

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	Unknown	BNA	512	120 J
2.	"	"	557	220 J
3.	"	"	608	480 J
4.	"	"	639	140 J
5.	"	"	646	140 J
6.	"	"	741	155 J
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HEXTON ENVIRONMENTAL LABORATORY
7700 LORRAINE AVE., SUITE 105
STOCKTON CA 95210 209-957-3405

DATAFILE: 89M3BN1341
SAMPLE: E9075064-01 IWM AIR00
MISC. BN, INST: 4500, 1L=>2X1

B. TENTATIVELY IDENTIFIED COMPOUNDS

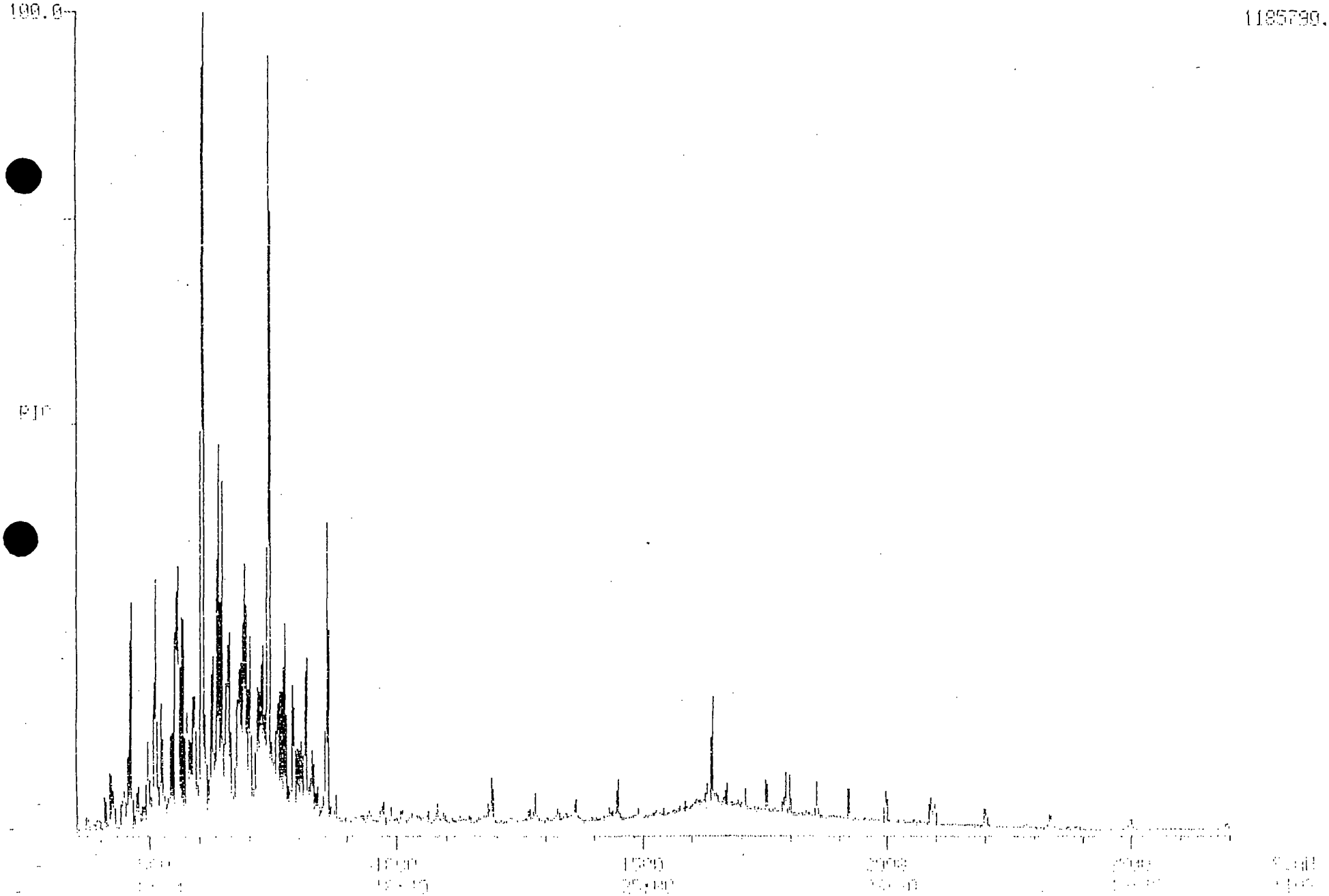
CAS #	SEMIVOLATILE COMPOUND NAMES	SCAN#	AMOUNT
			UG/L / UG/
_____	UNKNOWN	512	64 J
_____	UNKNOWN	557	109 J
_____	UNKNOWN	608	237 J
_____	NONANE, 3,6-DIMETHYL-	639	68 J
_____	UNKNOWN	646	70 J
_____	UNKNOWN	693	44 J
_____	DECANE, 2,5,6-TRIMETHYL-	741	155 J

5 OUT OF 6 INTERNAL STANDARDS FOUND

J = ESTIMATED VALUE - A 1:1 RESPONSE FACTOR IS ASSUMED

RIC
07/29/88 7:30:00
SAMPLE: 8807S064-01 IWM AIR001A
CONDS.: BN, INST: 4500, 1L=>2X1ML
RANGE: G 1,2700 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 88M3BN1341 #1 SCANS 350 TO 2700
CALI: 88M3BN1341 #5



WESTON ANALYTICS
7101 LORRAINE AVE. SUITE 102
STOCKTON CA 95210 209 957-3405

GC/MS SEMI-VOLATILE ORGANICS ANALYSIS

LAB REFERENCE NUMBER : 8907S064-01MS
CLIENT SAMPLE ID : AIR001A-MS
REPORT DATE : 08-04-1988

CLIENT NAME : IWM
FILE ID : 88M3BN1343
BLANK ID : 88M3BN1381
SAMPLE TYPE : WATER

DATE SAMPLED : 07/15/88
DATE RECEIVED : 07/18/88
DATE EXTRACTED : 07/20/88
DATE ANALYSED : 07/29/88

10 U	n-nitroso-dimethylamine	
170	phenol	
10 U	aniline	
10 U	bis(2-chloroethyl) ether	
36	2-chlorophenol	
10 U	1,3-dichlorobenzene	
25	1,4-dichlorobenzene	
10 U	benzyl alcohol	
10 U	1,2-dichlorobenzene	
10 U	2-methylphenol	
10 U	bis(2-chloroisopropyl) ether	
3 J	4-methylphenol	
32	n-nitroso-di-n-propylamine	
10 U	hexachloroethane	
10 U	nitrobenzene	
10 U	isophorone	
10 U	2-nitrophenol	
10 U	2,4-dimethylphenol	
50 U	benzoic acid	
10 U	bis(2-chloroethoxy) methane	
10 U	2,4-dichlorophenol	
22	1,2,4-trichlorobenzene	
180	naphthalene	
10 U	4-chloroaniline	
10 U	hexachlorobutadiene	
10 U	4-chloro-3-methylphenol	
33	2-methylnaphthalene	
10 U	hexachlorocyclopentadiene	
10 U	2,4,6-trichlorophenol	
50 U	2,4,5-trichlorophenol	
10 U	2-chloronaphthalene	
50 U	2-nitroaniline	
10 U	dimethyl phthalate	
4 J	acenaphthylene	
50 U	3-nitroaniline	
33	acenaphthene	
50 U	2,4-dinitrophenol	
50	4-nitrophenol	
11	dibenzofuran	
3 J	2,4-dinitrotoluene	
10 U	2,6-dinitrotoluene	
10 U	diethyl phthalate	
10 U	4-chlorophenyl phenyl ether	
6 J	fluorene	
50 U	4-nitroaniline	
50 U	4,6-dinitro-2-methylphenol	
10 U	n-nitrosodiphenylamine	
10 U	4-bromophenyl phenyl ether	
10 U	hexachlorobenzene	
11 J	pentachlorophenol	
26	phenanthrene	
2 J	anthracene	
22	di-n-butyl phthalate	
7 J	fluoranthene	
50 U	benzidine	
23	pyrene	
10 U	butyl benzyl phthalate	
20 U	3,3'-dichlorobenzidine	
2 J	benzo(a)anthracene	
14	bis(2-ethylhexyl) phthalate	
3 J	chrysene	
10 U	di-n-octyl phthalate	
10 U	benzo(b)fluoranthene	
10 U	benzo(k)fluoranthene	
10 U	benzo(a)pyrene	
10 U	indeno(1,2,3-cd)pyrene	
10 U	dibenz(a,h)anthracene	
10 U	benzo(g,h,i)perylene	
SURROGATE % RECOVERY		
81	2-fluorophenol (SS1)	
90	phenol-d5 (SS2)	
52	nitrobenzene-d5 (SS3)	
17	2-fluorobiphenyl	
20	2,4,6-tribromophenol (SS5)	
17	p-terphenyl-d14 (SS6)	

RESULT UNITS : ug/l (micrograms per liter)

DILUTION FACTOR : 1

U = indicates the compound was analysed for, but not detected.
The numerical value preceeding "U" is the limit of detection for that compound, based on dilution.
J = indicates an estimated trace value.

ANALYST : _____

APPROVED BY : _____

Laboratory Name: WESTON

Case No: 88075064

Sample Number: AIR001A-MS

88075064-01MS
88173BN1342

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	Unknown	BNA	516	120 J
2.	"	"	611	500 J
3.	"	"	642	140 J
4.	"	"	649	110 J
5.	"	"	696	150 J
6.	"	"	744	330 J
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ORGANICS ANALYSIS DATA SHEET - PAGE 3

LIBTON ENVIRONMENTAL LABORATORY
7750 LORRAINE AVE., SUITE 105
STOCKTON CA 95210 209-957-9405

DATAFILE: 88M3DN1342
SAMPLE: 8807S064-01MS IWM AIR
MISC. SN. INST. 4500, 1L=>1ML

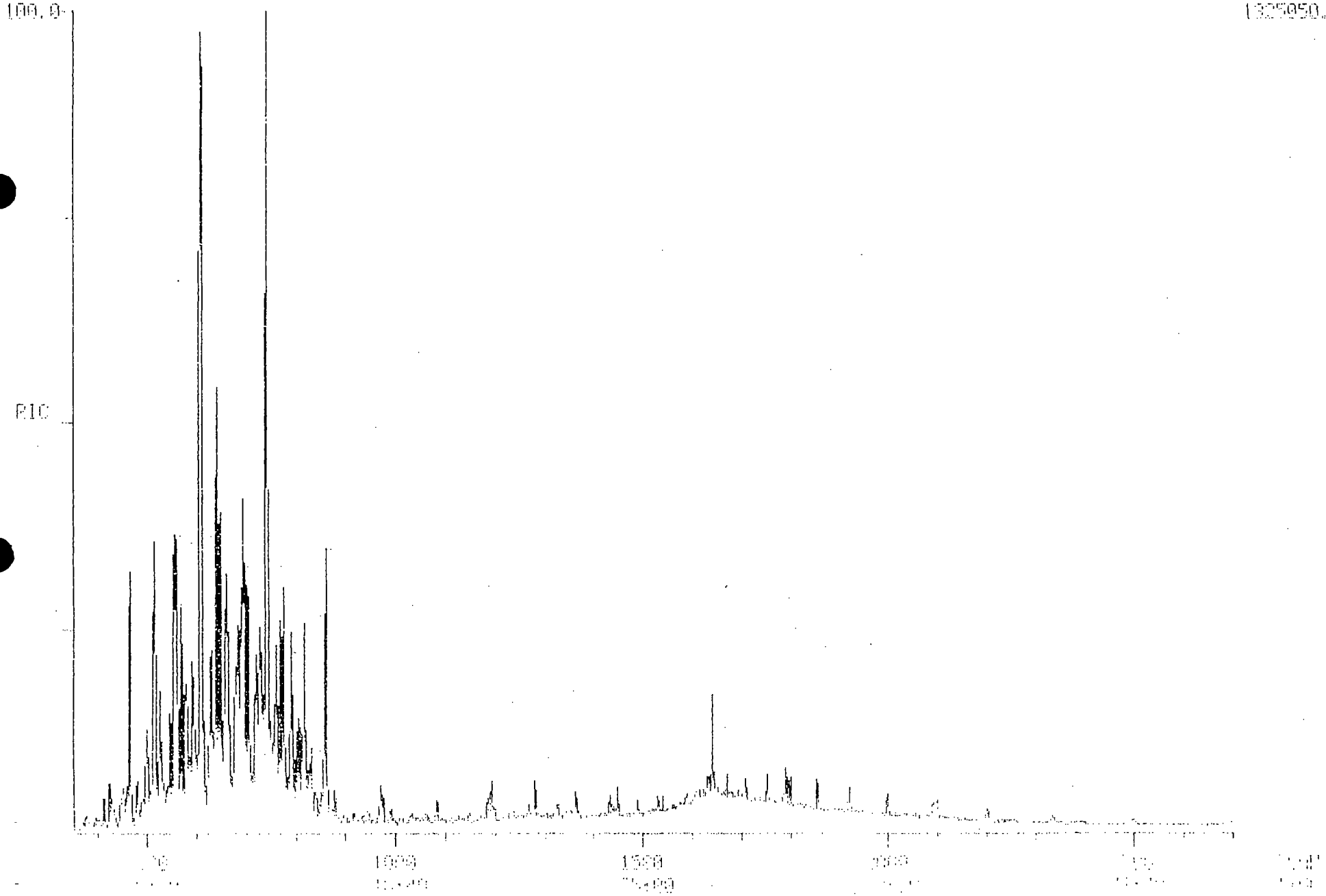
3 TENTATIVELY IDENTIFIED COMPOUNDS

CAS #	SEMIVOLATILE COMPOUND NAMES	SCAN#	AMOUNT
			UG/L / UG/K
_____	OCTANE, 4-METHYL-	466	53 J
_____	UNKNOWN	516	63 J
_____	UNKNOWN	556	54 J
_____	UNKNOWN	611	226 J
_____	NONANE, 2,6-DIMETHYL-	642	73 J
_____	UNKNOWN	649	56 J
_____	UNKNOWN	696	77 J
_____	UNKNOWN	744	166 J

5 OUT OF 6 INTERNAL STANDARDS FOUND

J = ESTIMATED VALUE - A 1:1 RESPONSE FACTOR IS ASSUMED

RIC DATA: 88M3BN1342 #1 SCANS 350 TO 2700
07/29/88 8:33:00 CALI: 88M3BN1342 #5
SAMPLE: 8807S064-01MS IWM AIR001A-MS
CONDS.: BN, INST: 4500, 1L=>1ML
RANGE: G 1-2700 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3



EC MS SEMI-VOLATILE ORGANICS ANALYSIS LAB REFERENCE NUMBER : 8806S064-02BOT

CLIENT SAMPLE ID : AIRP002BA(BOT)
REPORT DATE : 02-09-1988

CLIENT NAME : CWM
FILE ID : SEM3BN1382
BLANK ID : SEM3BN1381
SAMPLE TYPE : WATER

DATE SAMPLED : 07/15/88
DATE RECEIVED : 07/16/88
DATE EXTRACTED : 07/20/88
DATE ANALYSED : 08/05/88

100 U	n-nitroso-dimethylamine	100 U	dibenzofuran
100 U	phenol	100 U	2,4-dinitrotoluene
100 U	aniline	100 U	2,6-dinitrotoluene
100 U	bis(2-chloroethyl) ether	100 U	diethyl phthalate
100 U	2-chlorophenol	100 U	4-chlorophenyl phenyl ether
100 U	1,3-dichlorobenzene	100 U	fluorene
100 U	1,4-dichlorobenzene	500 U	4-nitroaniline
100 U	benzyl alcohol	500 U	4,6-dinitro-2-methylphenol
100 U	1,2-dichlorobenzene	100 U	n-nitrosodiphenylamine
100 U	2-methylphenol	100 U	4-bromophenyl phenyl ether
100 U	bis(2-chloroisopropyl) ether	100 U	hexachlorobenzene
100 U	4-methylphenol	500 U	pentachlorophenol
100 U	n-nitroso-di-n-propylamine	100 U	phenanthrene
100 U	hexachloroethane	100 U	anthracene
100 U	nitrobenzene	100 U	di-n-butyl phthalate
100 U	isophorone	100 U	fluoranthene
100 U	2-nitrophenol	500 U	benzidine
100 U	2,4-dimethylphenol	100 U	pyrene
500 U	benzoic acid	100 U	butyl benzyl phthalate
100 U	bis(2-chloroethoxy) methane	200 U	3,3'-dichlorobenzidine
100 U	2,4-dichlorophenol	100 U	benzo(a)anthracene
100 U	1,2,4-trichlorobenzene	100 U	bis(2-ethylhexyl)phthalate
550	naphthalene	100 U	chrysene
100 U	4-chloroaniline	100 U	di-n-octyl phthalate
100 U	hexachlorobutadiene	100 U	benzo(b)fluoranthene
100 U	4-chloro-3-methylphenol	100 U	benzo(k)fluoranthene
100 U	2-methylnaphthalene	100 U	benzo(a)pyrene
100 U	hexachlorocyclopentadiene	100 U	indeno(1,2,3-cd)pyrene
100 U	2,4,6-trichlorophenol	100 U	dibenz(a,h)anthracene
500 U	2,4,5-trichlorophenol	100 U	benzo(g,h,i)perylene
100 U	2-chloronaphthalene	SURROGATE % RECOVERY	
500 U	2-nitroaniline	0 DL	2-fluorophenol (SS1)
100 U	dimethyl phthalate	0 DL	phenol-d5 (SS2)
100 U	acenaphthylene	0 DL	nitrobenzene-d5 (SS3)
500 U	3-nitroaniline	0 DL	2-fluorobiphenyl
100 U	acenaphthene	0 DL	2,4,6-tribromophenol (SS5)
500 U	2,4-dinitrophenol	0 DL	p-terphenyl-d14 (SS6)
500 U	4-nitrophenol		

RESULT UNITS : ug/l (micrograms per litre)

DILUTION FACTOR : 20

U = indicates the compound was analysed for, but not detected.
The numerical value preceeding 'U' is the limit of detection for that compound, based on dilution.
J = indicates an estimated trace value.

ANALYST : _____

APPROVED BY : _____

Laboratory Name WESTON

Case No 88065064

Sample Number
AZR002BA(Bot)

88065064-02 (Bot)
88M3BN138E2

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	UNKNOWN	BNA	495	1,000 J
2.	"		544	920 J
3.	"		584	1,400 J
4.	"		638	2,720 J
5.	"	BNA	769	1,900 J
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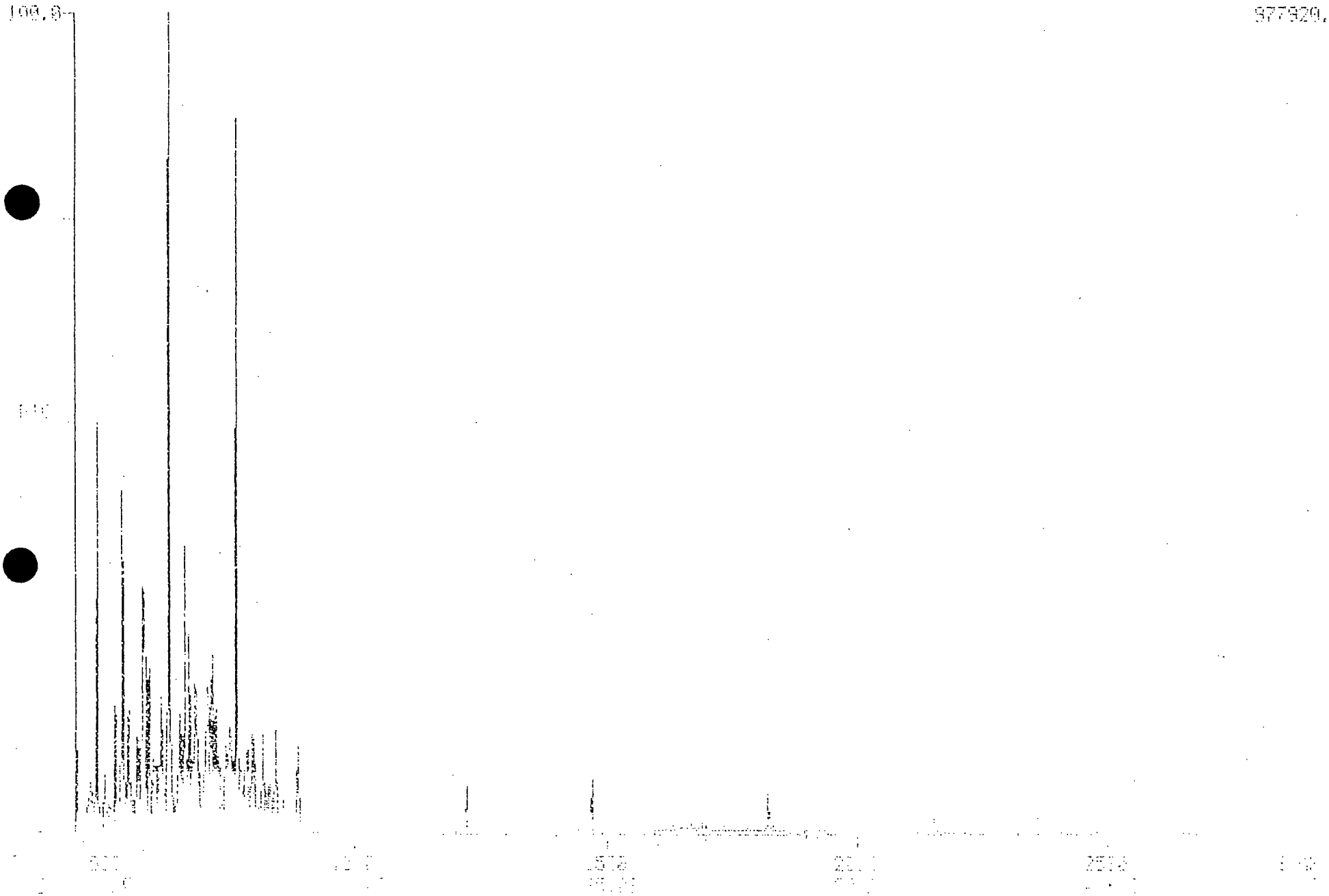
RIC DATA: 88M3BN1382 #1 SCANS 450 TO 2750
08/05/88 19:01:00 CALI: 88M3BN1382 #5
SAMPLE: 8806S064-02(BOT) IWM AIR002BA(BOT)
CONDS.: BN, INST: 4500, 700ML=>2X5ML, 1:10 DILUTION
RANGE: G 1,2750 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3



WESTON ANALYTICS
7711 LORRAINE AVE. SUITE 102
STOCKTON CA 95210 209 957-5405

GC/MS SEMI-VOLATILE ORGANICS ANALYSIS

LAB REFERENCE NUMBER : 3907S064-02TOP
CLIENT SAMPLE ID : FIR002A-TOP
REPORT DATE : 03-04-1989

CLIENT NAME : CAM
FILE ID : 89MSBN1351
BLANK ID : 89MSBN1361
SAMPLE TYPE : WATER

DATE SAMPLED : 07/15/88
DATE RECEIVED : 07/15/88
DATE EXTRACTED : 07/20/88
DATE ANALYSED : 07/22/88

100 U	n-nitroso-dimethylamine
100 U	phenol
100 U	aniline
100 U	bis(2-chloroethyl) ether
100 U	2-chlorophenol
100 U	1,3-dichlorobenzene
100 U	1,4-dichlorobenzene
100 U	benzyl alcohol
100 U	1,2-dichlorobenzene
100 U	2-methylphenol
100 U	bis(2-chloroisopropyl) ether
100 U	4-methylphenol
100 U	n-nitroso-di-n-propylamine
100 U	hexachloroethane
100 U	nitrobenzene
100 U	isophorone
100 U	2-nitrophenol
100 U	2,4-dimethylphenol
500 U	benzoic acid
100 U	bis(2-chloroethoxy) methane
100 U	2,4-dichlorophenol
100 U	1,2,4-trichlorobenzene
3390	naphthalene
100 U	4-chloroaniline
100 U	hexachlorobutadiene
100 U	4-chloro-3-methylphenol
130	2-methylnaphthalene
100 U	hexachlorocyclopentadiene
100 U	2,4,6-trichlorophenol
500 U	2,4,5-trichlorophenol
100 U	2-chloronaphthalene
500 U	2-nitroaniline
100 U	dimethyl phthalate
100 U	acenaphthylene
500 U	3-nitroaniline
100 U	acenaphthene
500 U	2,4-dinitrophenol
500 U	4-nitrophenol

100 U	dibenzofuran
100 U	2,4-dinitrotoluene
100 U	2,6-dinitrotoluene
100 U	diethyl phthalate
100 U	4-chlorophenyl phenyl ether
100 U	fluorene
500 U	4-nitroaniline
49 J	4,6-dinitro-2-methylphenol
100 U	n-nitrosodiphenylamine
100 U	4-bromophenyl phenyl ether
100 U	hexachlorobenzene
500 U	pentachlorophenol
100 U	phenanthrene
100 U	anthracene
100 U	di-n-butyl phthalate
100 U	fluoranthene
500 U	benzidine
100 U	pyrene
100 U	butyl benzyl phthalate
200 U	3,3'-dichlorobenzidine
100 U	benzo(a)anthracene
100 U	bis(2-ethylhexyl)phthalate
100 U	chrysene
100 U	di-n-octyl phthalate
100 U	benzo(b)fluoranthene
100 U	benzo(k)fluoranthene
100 U	benzo(a)pyrene
100 U	indeno(1,2,3-cd)pyrene
100 U	dibenz(a,h)anthracene
100 U	benzo(g,h,i)perylene

SURROGATE % RECOVERY

0	2-fluorophenol (SS1)
0	phenol-d5 (SS2)
0	nitrobenzene-d5 (SS3)
0	2-fluorobiphenyl
0	2,4,6-tribromophenol (SS5)
0	o-terphenyl-d14 (SS6)

RESULT UNITS : (ug/l = micrograms per litre)

DILUTION FACTOR : 20

U = indicates the compound was analysed for, but not detected.
The numerical value preceeding "U" is the limit of detection for that compound, based on dilution.
J = indicates an estimated trace value.

ANALYST : [signature]

APPROVED BY : [signature]

Laboratory Name WESTON

Case No 88C75064

Sample Number
AIR002A - Top

88C75064-02 (Top)
88M3BN1351

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	Unknown	BNA	473	2600J
2.	"	"	522	2400J
3.	"	"	565	2800J
4.	"	"	615	3100J
5.	"	"	669	2400J
6.	"	"	752	3600J
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ORGANIC ANALYSIS DATA SHEET - PAGE

[illegible] ENVIRONMENTAL LABORATORY
[illegible] LORAINE AVE. SUITE 109
[illegible] 95210 209-557-0405

DATAFILE: B8MOON1351
SAMPLE: B8072364-02(TOP) (WM
MISC. PN, INST: +500, 1:10 1:1

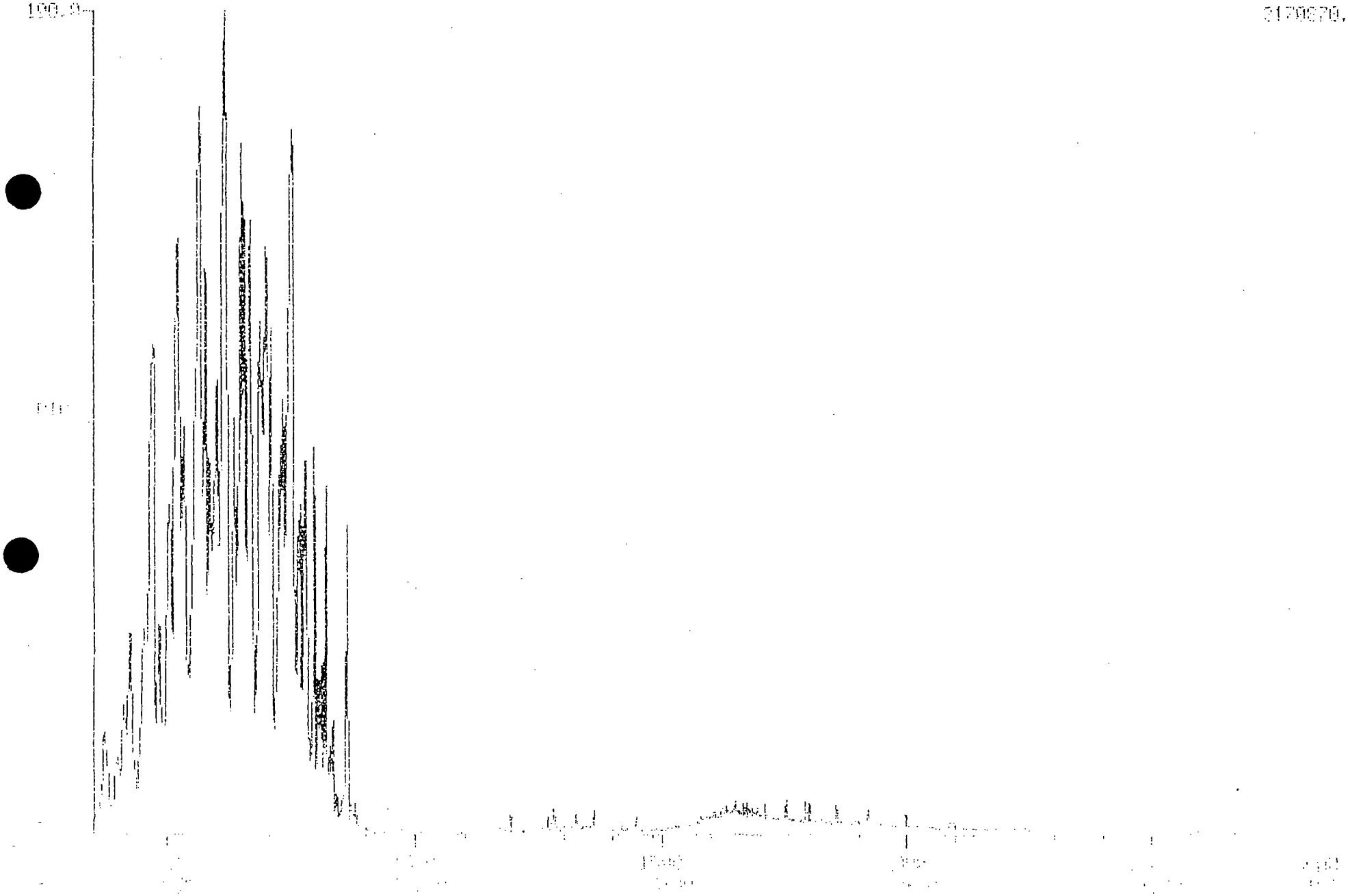
I. TENTATIVELY IDENTIFIED COMPOUNDS

	SEMIVOLATILE COMPOUND NAMES	SCAN#	AMOUNT
			UG/L /
_____	DITANE, 4-METHYL-	72	129
_____	UNKNOWN	122	123
_____	UNKNOWN	165	192
_____	UNKNOWN	215	156
_____	UNKNOWN	241	66
_____	UNKNOWN	250	113
_____	UNKNOWN	255	71
_____	UNKNOWN	269	118
_____	UNKNOWN	352	183

9 OUT OF 6 INTERNAL STANDARDS FOUND

= ESTIMATED VALUE - - 1.1 RESPONSE FACTOR IS ASSUMED

RIC DATA: 88M3BN1351 #1 SCANS 350 TO 2700
07/29/88 18:01:00 CALI: 88M3BN1350 #5
SAMPLE: 88075064-02(TOP) IWM AIR002A-TOP
CONDS.: BN, INST: 4500, 1:10 DILUTION
RANGE: G 1,2700 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3



Client: Indust. Waste Mgmt.

Sample ID: Blank QA88222

Sampled: NA Matrix: WATER

Received: NA RFW Job #: 8807s064

ORGANOCHLORINE PESTICIDES/PCB'S EPA 608

Extracted: 07/20/88 Ext Fact: 100

Analyzed: 08/10/88 Dil Fact: 1

Confirmed: NO Blank ID: NA

RFW Lab #: NA

Compound	Results (ppb) ug/L	Det Limit Sample ug/L
Aroclor 1016.....	U	0.50
Aroclor 1221.....	U	0.50
Aroclor 1232.....	U	0.50
Aroclor 1242.....	U	0.50
Aroclor 1248.....	U	0.50
Aroclor 1254.....	U	1.00
Aroclor 1260.....	U	1.00

U = Compound analyzed for but not detected

Approved:

Declan Cowley
Organic Section Manager

Client: Indust. Waste Mgmt.

Sample ID: AIR001MC

Sampled: 07/18/88 Matrix: WATER

Received: 07/19/88 RFW Job #: 8807s064

ORGANOCHLORINE PESTICIDES/PCB'S EPA 608

Extracted: 07/20/88 Ext Fact: 94

Analyzed: 08/10/88 Dil Fact: 1

Confirmed: NO Blank ID: QA 88222

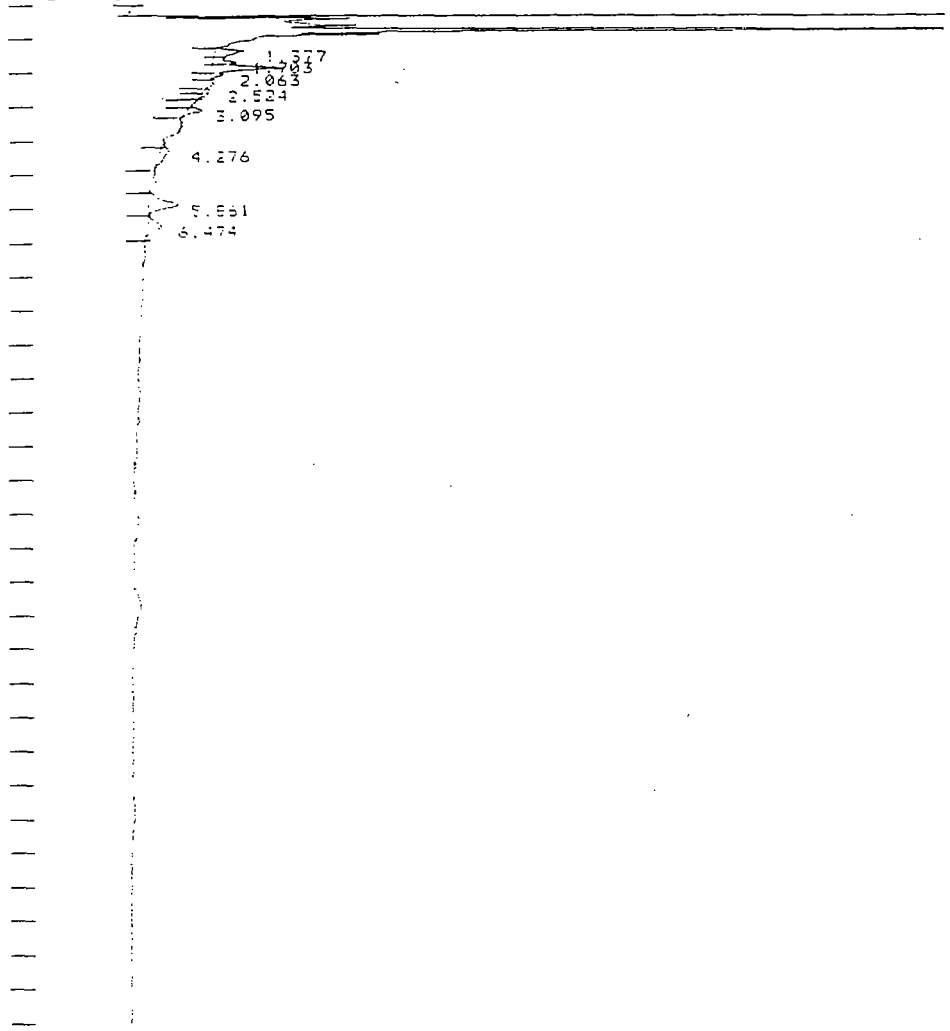
RFW Lab #: 001

Compound	Results (ppb) ug/L	Det Limit Sample ug/L
Aroclor 1016.....	U	0.5
Aroclor 1221.....	U	0.5
Aroclor 1232.....	U	0.5
Aroclor 1242.....	U	0.5
Aroclor 1248.....	U	0.5
Aroclor 1254.....	U	1.1
Aroclor 1260.....	U	1.1

U = Compound analyzed for but not detected

Approved: Declan Cowley
Organic Section Manager

CHART SPEED 0.7 CM/MIN
ATTEN: 128 ZERO: 5% 1 MIN/TICK



varian /sunnyvale,calif p/n 03-906362-00

TITLE: ORGANOCHLORINE PESTICIDES 19:07 3 AUG 88

CHANNEL NO: 1 SAMPLE: ---------- METHOD: 608 8807-5064-001

PEAK NO	PEAK NAME	RESULT UG/L	TIME (MIN)	TIME OFFSET	AREA COUNTS	SEP CODE	W1/2 (SEC)
1		0.0000	1.377		39920	BV	8.70
2		0.0000	1.703		30781	VV	? 5.40
3	BHC-ALPHA	0.5145	1.887	0.087	55646	VV	6.35
4		0.0000	2.063		11080	VB	? 3.95
5		0.0000	2.524		7193	BV	4.75
6	BHC-BETA	0.1244	2.597	0.017	4892	VB	? 8.70
7	BHC-DELTA	0.1722	3.095	0.085	20452	BB	5.65
8		0.0000	4.276		36131	BB	? 13.15
9	CHLRDANE-H	0.8263	5.861	-0.219	75326	BV	13.95
10	ENDOSULF 1	0.3767	6.474	0.154	36792	VB	14.60
TOTALS:		2.0141		0.124	348213		

DETECTED PKS: 10 REJECTED PKS: 0

DIVISOR: 1.00000 MULTIPLIER: ~~1.00000~~ 100

NOISE: 322.9 OFFSET: 472

RACK: 4 VIAL: 3 INJ: 1

SAVED FILE: 608/925

NOTES:
6 FT, 1.5% SP-2250/1.95% SP-2401, 100/120
TEMP-INJ:230, DET:300, COL:200
GC4/ECD(A)/OUT(-)/RANGE(1)/A-INJ(2)/34#830
* COELUTE 1 = DDD-4,4' + ENDOSULFAN 2
* COELUTE 2 = ENDRIN KETONE + DBC

varian

Client: Indust. Waste Mgmt.

Sample ID: AIR002BA

Sampled: 07/18/88 Matrix: WATER

Received: 07/19/88 RFW Job #: 8807s064

ORGANOCHLORINE PESTICIDES/PCB'S EPA 608

Extracted: 07/20/88 Ext Fact: 7

Analyzed: 08/10/88 Dil Fact: 1

Confirmed: NO Blank ID: QA88222

RFW Lab #: 002

Compound	Results (ppb) ug/L	Det Limit Sample ug/L
Aroclor 1016	U	7
Aroclor 1221	U	7
Aroclor 1232	U	7
Aroclor 1242	U	7
Aroclor 1248	U	7
Aroclor 1254	U	14
Aroclor 1260	U	14

U = Compound analyzed for but not detected

Approved:

Declan Cowley
Organic Section Manager

Client: Indust. Waste Mgmt.

Sample ID: AIR002A

Sampled: 07/18/88 Matrix: WATER

Received: 07/19/88 RFW Job #: 8807s064

ORGANOCHLORINE PESTICIDES/PCB'S EPA 608

Extracted: 07/20/88 Ext Fact: 7

Analyzed: 08/10/88 Dil Fact: 1

Confirmed: NO Blank ID: QA88222

RFW Lab #: 002, UPPER PHASE

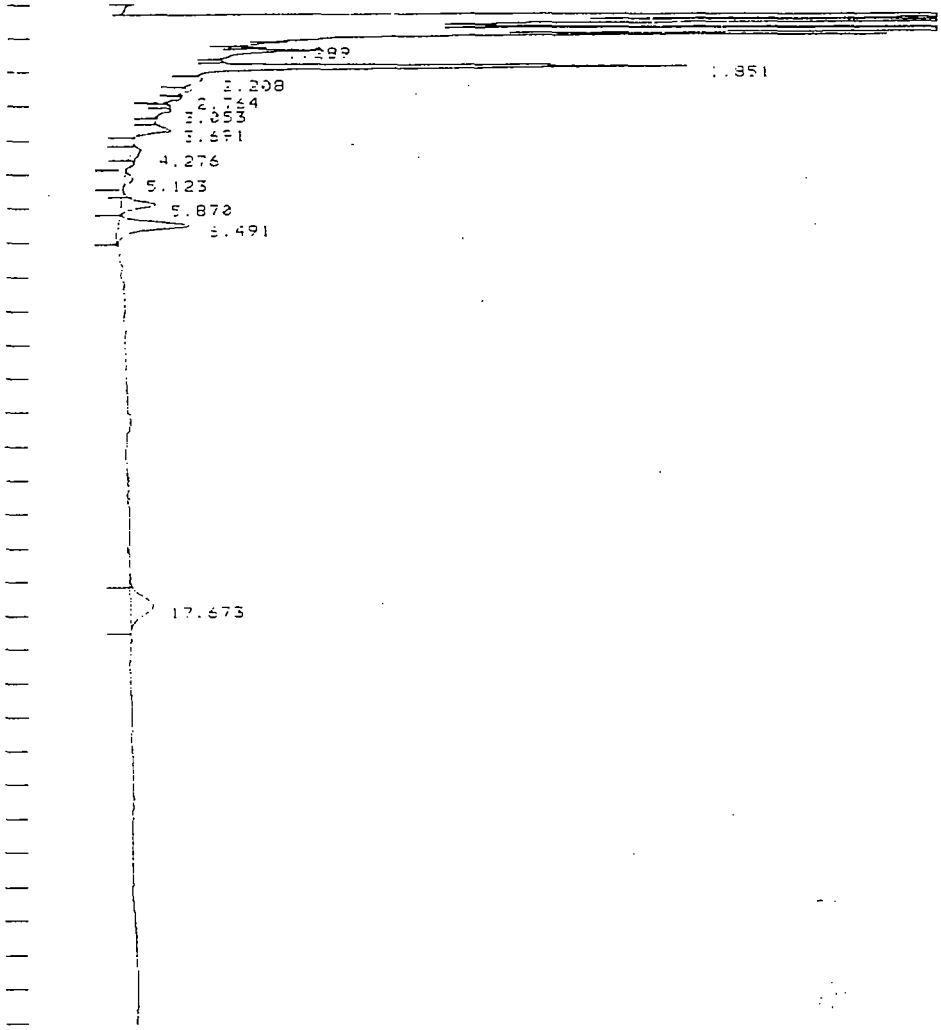
Compound	Results (ppb) ug/L	Det Limit Sample ug/L
Aroclor 1016.....	U	7
Aroclor 1221.....	U	7
Aroclor 1232.....	U	7
Aroclor 1242.....	U	7
Aroclor 1248.....	U	7
Aroclor 1254.....	U	14
Aroclor 1260.....	U	14

U = Compound analyzed for but not detected

Approved:

Deelan Cowley
Organic Section Manager

CHART SPEED 0.7 CM/MIN
ATTEN: 128 ZERO: 5% : MIN/TICK



TITLE: ORGANOCHLORINE PESTICIDES 19:40 3 AUG 88

CHANNEL NO: 1 SAMPLE: ---------- METHOD: 608 8807-5064-002

PEAK NO	PEAK NAME	RESULT UG/L	TIME (MIN)	TIME OFFSET	AREA COUNTS	SEP CODE	W1/2 (SEC)
1		0.0000	1.289		14747	BV	2.55
2		0.0000	1.384		74923	VB	3.90
3	BHC-ALPHA	2.8164	1.851	0.051	488783	BB	6.05
4	BHC-GAMMA	0.0972	2.208	-0.072	11520	BV	5.70
5	BHC-BETA	0.2376	2.531	-0.049	5344	VB	4.95
6	HEPTACHLOR	0.0563	2.764	-0.026	7390	BB	3.75
7	BHC-DELTA	0.0550	3.009	-0.001	6531	BV	? 5.30
8		0.0000	3.053		15263	VB	? 14.10
9		0.0000	3.691		48622	BB	8.35
10		0.0000	4.276		34519	BV	16.60
11		0.0000	4.571		5052	T	? 17.90
12	HEPT EPOX	0.2067	5.123	0.093	13581	VB	16.20
13	CHLRDANE-A	0.8719	5.870	-0.210	79483	BV	12.95
14	ENDOSULF 1	1.7031	6.491	0.171	175122	VB	13.90
15	ENDOS SULF	2.8999	17.673	-0.237	141310	BB	38.90
TOTALS:		9.0360		-0.280	1113090		

DETECTED PKS: 15 REJECTED PKS: 0

DIVISOR: 1.00000 MULTIPLIER: ~~1.00000~~ 100

NOISE: 322.9 OFFSET: 132

RACK: 4 VIAL: 4 INJ: 1

SAVED FILE: 608/926

NOTES:
6 FT, 1.5% SP-2250/1.95% SP-2401, 100/120
TEMP-INJ:230, DET:300, COL:200
GC4/ECD(A)/OUT(-)/RANGE(1)/A-INJ(2)/34#030
* COELUTE 1 * DDD-4,4' + ENDOSULFAN 2
* COELUTE 2 * ENDRIN KETONE + DBC

STOCKTON FACILITY PRODUCTION TRAVELLER (WESCA)

REPORT GENERATION: 07/20/88 @ 16:24 HRS

WA PRODUCTION BATCH #: 8807S075

CLIENT NAME: INDUST. WASTE MGMT.
CLIENT PROJ #/NAME:
CLIENT CASE #/NAME:

DATA PACKAGE: CLS
DATA PKG LEVEL: WA
DATA PROTOCOL: EPTOX / /

ANALYTICS PM: K.HINDS
WA WO #:
HAZARD LEVEL: HIGH

E RECEIVED: 07/20/88
E LOGGED: 07/20/88

DATE INTERNAL REPORTS DUE: 07/25/88
DATE CLIENT REPORTS DUE: 07/27/88

DISTRIBUTION LOG: EX GC GM IN PM

P	CLIENT ID NUMBER/NAME	QA QC	SAMPLE DESCRIP	MATRIX	DATE COLLTD	TYPE CONT	STYL CONT	SIZE CONT	# OF CONT	PRES #ONE	PRES #TWO	SAMPLE LOCATION	SAMPLE DISTRIBUTION	SAMPLE METHOD(s) / (COMMENTS)
X	AIRP003A		GROUND	SO	07/19/88	GL	JAR	32 OZ	1	NONE		WALKIN D4	EX//GC//GM//IN	624;625;METALS(EP TOX);%M;//BTU;REACTIVITY;IGNITABILITY;CORROSIVITY;
X	AIRP003C		GROUND	SO	07/19/88	GL	JAR	32 OZ	1	NONE		WALKIN D4	EX//GC//GM//IN	624;625;METALS(EP TOX);%M;//BTU;REACTIVITY;IGNITABILITY;CORROSIVITY;
X	AIRP003E		GROUND	SO	07/19/88	GL	JAR	32 OZ	1	NONE		WALKIN D4	EX//GC//GM//IN	624;625;METALS(EP TOX);%M;//BTU;REACTIVITY;IGNITABILITY;CORROSIVITY;
X	AIRP003G		VESSEL	LQ	07/19/88	GL	JAR	32 OZ	1	NONE		WALKIN D4	EX//GC//GM//IN	624;625;METALS(EP TOX);//BTU;REACTIVITY;IGNITABILITY;CORROSIVITY;

RIX KEY CODE: SD:SOLID SL:SLUDGE SO:SOIL WT:WATER OL:OIL LQ:LIQUID WS:WASTE WATER DR:DRUM WASTE GS:GAS XX:MISC

L SAMPLES ON PAGE: 4

WESTON ANALYTICS
INORGANICS DATA SUMMARY REPORT

CLIENT: I.W.M.
RFW # : 8807S075

DATE RECEIVED: 07/20/88
DATE REPORT: 08/10/88

LAB NO.:	001	002	003	004
FIELD NO.:	AIRP003A	AIRP003C	AIRP003E	AIRP003G
UNITS:	MG/L	MG/L	MG/L	MG/L
C/D FACTOR:	NA	NA	NA	NA
EPTOX: ARSENIC	3.2U	3.2U	6.7	3.2U
BARIUM	20.2	4.82	23.8	0.08U
CADMIUM	0.11	0.08	0.12	0.08U
CHROMIUM	0.16U	0.16U	0.16U	0.16U
LEAD	3.2U	3.2U	3.2U	3.2U
MERCURY	6.5U	6.5U	6.5U	6.5U
SELENIUM	3.2U	3.2U	3.2U	3.2U
SILVER	0.16U	0.16U	0.16U	0.16U
BOMB CALORIMETRY:	<500 B.T.U./lb.	5900 B.T.U./lb.	4600 B.T.U./lb.	8100 B.T.U./lb.
REACTIVE CYANIDE:	1.0 MG/KG	1.0 MG/KG	19 MG/KG	1.0 MG/KG
SULFIDES:	<20.0 MG/KG	<20.0 MG/KG	<20.0 MG/KG	<20.0 MG/KG
CORROSIVITY:	pH 8.19/NO	pH 8.62/NO	pH 8.55/NO	pH 8.25/NO
IGNITABILITY:	>200 F	>200 F	>200 F	>200 F

APPROVED BY: Roger A. Elliott DATE: 8-10-88
ROGER A. ELLIOTT
LABORATORY DIRECTOR
WESTON ANALYTICS

WESTON ANALYTICS
7101 LORRAINE AVE. SUITE 102
STOCKTON CA 95210 209 957-0405

GC/MS VOLATILE ORGANICS ANALYSIS

LAB REFERENCE NUMBER : WATER BLANK
CLIENT SAMPLE ID : WATER BLANK
REPORT DATE : 03-03-1988

CLIENT NAME : .
FILE ID : 88MV02882
BLANK ID : 88MV02882
SAMPLE TYPE : WATER

DATE SAMPLED : NA
DATE RECEIVED : NA
DATE EXTRACTED : NA
DATE ANALYSED : 03/04/88

10	U	chloromethane	5	U	dibromochloromethane
10	U	bromomethane	5	U	1,1,2-trichloroethane
10	U	vinyl chloride	5	U	benzene
10	U	chloroethane	5	U	cis-1,3-dichloropropene
5	U	methylene chloride	10	U	2-chloroethyl vinyl ether
5	J	acetone	5	U	bromoform
5	U	carbon disulfide	10	U	4-methyl-2-pentanone
5	U	1,1-dichloroethene	10	U	2-hexanone
5	U	1,1-dichloroethane	5	U	1,1,2,2-tetrachloroethane
5	U	trans-1,2-dichloroethene	5	U	tetrachloroethene
5	U	chloroform	5	U	toluene
5	U	1,2-dichloroethane	5	U	chlorobenzene
10	U	2-butanone	5	U	ethylbenzene
5	U	1,1,1-trichloroethane	5	U	styrene
5	U	carbon tetrachloride	5	U	xylenes (o-m)
10	U	vinyl acetate	5	U	xylene (p)
5	U	bromodichloromethane	SURROGATE % RECOVERY		
5	U	1,2-dichloropropane	91		1,2-dichloroethane-d4 (SS1)
5	U	trans-1,3-dichloropropene	99		toluene-d8 (SS2)
5	U	trichloroethene	97		bromofluorobenzene (SS3)

RESULT UNITS (ug/l) micrograms per litre)

DILUTION FACTOR : 1

. F indicates the compound was analysed for, but not detected.
The numerical value preceeding 'U' is the limit of detection for that compound, based on dilution.
. F indicates an estimated trace value.

ANALYST : ALI

APPROVED BY : [signature]

WESTON ANALYTICS
7101 LORRAINE AVE. SUITE 103
STOCKTON CA 95210 209 957-3406

GC/MS VOLATILE ORGANICS ANALYSIS

LAB REFERENCE NUMBER : 3307376-01
CLIENT SAMPLE ID : AIRP003A
REPORT DATE : 08-03-1993

CLIENT NAME : INDUST.WASTE MGMT.
FILE ID : 93M1VO2398
BLANK ID : 93M1VO2392
SAMPLE TYPE : SOIL/SEDIMENT/SOLIDS

DATE SAMPLED : 07/19/93
DATE RECEIVED : 07/20/93
DATE EXTRACTED : NA
DATE ANALYSED : 08/05/93

11000	U	chloromethane	5500	U	dibromochloromethane
11000	U	bromomethane	5500	U	1,1,2-trichloroethane
11000	U	vinyl chloride	5500	U	benzene
11000	U	chloroethane	5500	U	cis-1,3-dichloropropene
5500	J	methylene chloride	11000	U	2-chloroethyl vinyl ether
3100	J	acetone	5500	U	bromoform
5500	U	carbon disulfide	11000	U	4-methyl-2-pentanone
5500	U	1,1-dichloroethene	11000	U	2-hexanone
5500	U	1,1-dichloroethane	5500	U	1,1,2,2-tetrachloroethane
5500	U	trans-1,2-dichloroethene	5500	U	tetrachloroethene
5500	U	chloroform	5300	J	toluene
5500	U	1,2-dichloroethane	5500	U	chlorobenzene
11000	U	2-butanone	80000		ethylbenzene
5500	U	1,1,1-trichloroethane	5500	U	styrene
5500	U	carbon tetrachloride	550000		xylenes (o+m)
11000	U	vinyl acetate	490000		xylene (p)
5500	U	bromodichloromethane			SURROGATE % RECOVERY
5500	U	1,2-dichloropropane	92		1,2-dichloroethane-d4 (SS1)
5500	U	trans-1,3-dichloropropene	97		toluene-d8 (SS2)
5500	U	trichloroethene	156		bromofluorobenzene (SS3)

RESULT UNITS : ug/kg (micrograms per kilogram)
Results reported on a dry weight basis.

DILUTION FACTOR : 1000
% MOISTURE : 10.2

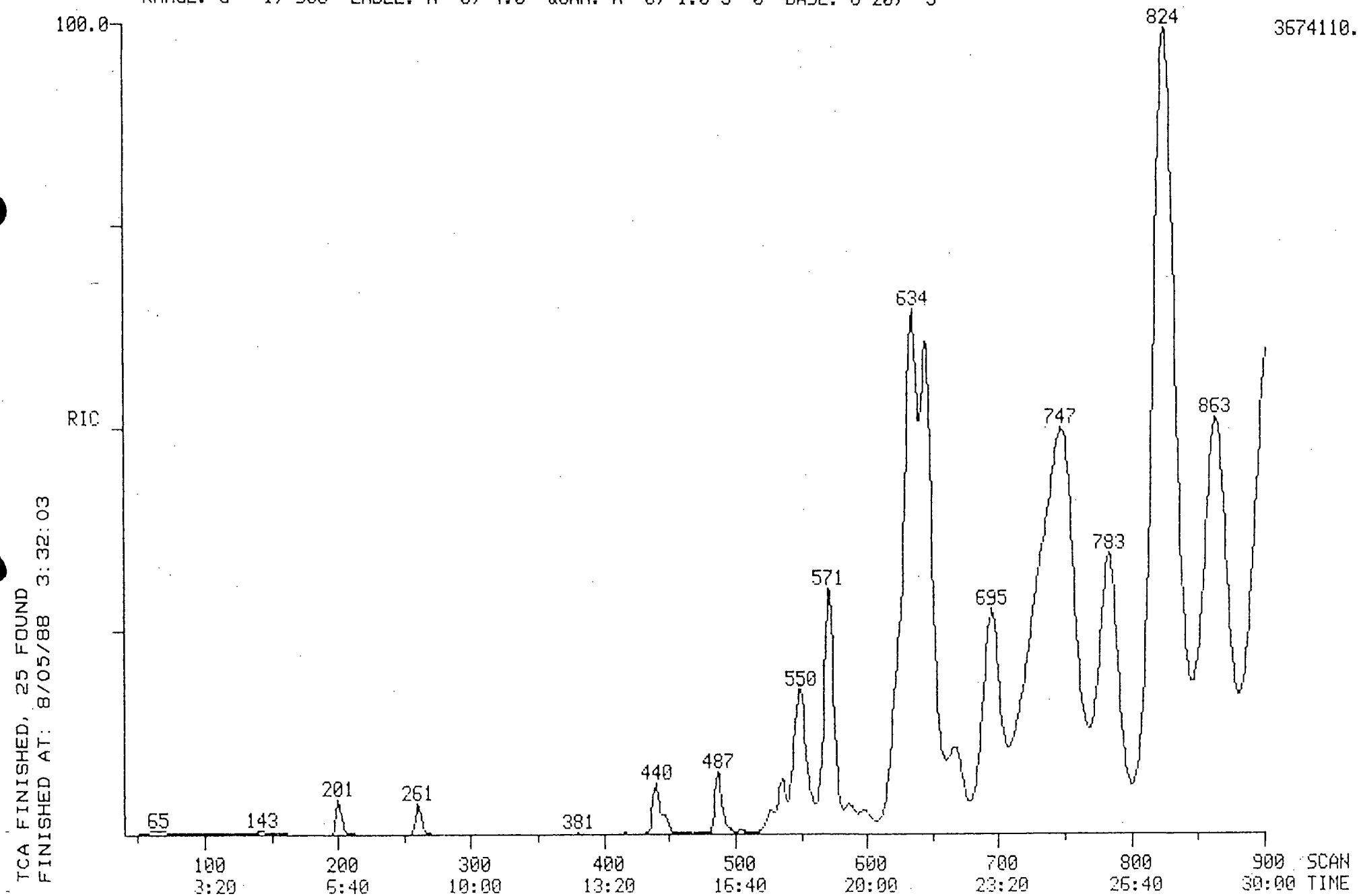
U = indicates the compound was analysed for, but not detected.
The numerical value preceeding 'U' is the limit of detection for that compound, based on dilution.
J = indicates an estimated trace value.

ANALYST : Ali

APPROVED BY : [signature]

RIC
08/05/88 1:13:00
SAMPLE: 88075075-001V AIRP003A 5.0G (DIL.FAC.=1000)
CONDS.: 1050
RANGE: G 1, 900 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 88M1V02398 #1 SCANS 40 TO 900
CALI: 88M1V02398 #2



TCA FINISHED, 25 FOUND
FINISHED AT: 8/05/88 3:32:03

WESTON ANALYTICS
7101 LORAINE AVE. SUITE 102
STOCKTON CA 95210 209 957-0405

GC/MS VOLATILE ORGANICS ANALYSIS

LAB REFERENCE NUMBER : WATER BLANK
CLIENT SAMPLE ID : WATER BLANK
REPORT DATE : 03-03-1988

CLIENT NAME :
FILE ID : 88M1V01021
BLANK ID : 88M1.01001
SAMPLE TYPE : WATER

DATE SAMPLED : NA
DATE RECEIVED : NA
DATE EXTRACTED : NA
DATE ANALYSED : 07/23/88

10	U	chloromethane
10	U	bromomethane
10	U	vinyl chloride
10	U	chloroethane
10		methylene chloride
5	J	acetone
5	U	carbon disulfide
5	U	1,1-dichloroethene
5	U	1,1-dichloroethane
5	U	trans-1,2-dichloroethene
5	U	chloroform
5	U	1,2-dichloroethane
10	U	2-butanone
5	U	1,1,1-trichloroethane
5	U	carbon tetrachloride
10	U	vinyl acetate
5	U	bromodichloromethane
5	U	1,2-dichloropropane
5	U	trans-1,3-dichloropropene
5	U	trichloroethene
5	U	dibromochloromethane
5	U	1,1,2-trichloroethane
5	U	benzene
5	U	cis-1,3-dichloropropene
10	U	2-chloroethyl vinyl ether
5	U	bromoform
10	U	4-methyl-2-pentanone
10	U	2-hexanone
5	U	1,1,2,2-tetrachloroethane
5	U	tetrachloroethene
5	U	toluene
5	U	chlorobenzene
5	U	ethylbenzene
5	U	styrene
5	U	xylenes (o+m)
5	U	xylene (p)

SURROGATE % RECOVERY

93	1,2-dichloroethane-d4 (SS1)
99	toluene-d8 (SS2)
93	bromofluorobenzene (SS3)

RESULT UNITS : ug/l micrograms per litre

DILUTION FACTOR : 1

U = indicates the compound was analysed for, but not detected.
The numerical value preceeding 'U' is the limit of detection for that compound, based on dilution.
J = indicates an estimated trace value.

ANALYST : ALI

APPROVED BY :

WESTON ANALYTICS
7711 LORRAINE AVE. SUITE 112
STOCKTON CA 95210 209 957-5405

GC/MS VOLATILE ORGANICS ANALYSIS

LAB REFERENCE NUMBER : 9807S75-02
CLIENT SAMPLE ID : KIRP0031
REPORT DATE : 08-03-1998

CLIENT NAME : INDUST. WASTE MGMT.
FILE ID : 98M1V02022
BLANK ID : 98M1V02021
SAMPLE TYPE : SOIL SEDIMENT/SOLIDS

DATE SAMPLED : 07/19/98
DATE RECEIVED : 07/20/98
DATE EXTRACTED : NA
DATE ANALYSED : 07/29/98

52 U	chloromethane	25 U	dibromochloromethane
52 U	bromomethane	25 U	1,1,2-trichloroethane
52 U	vinyl chloride	25 U	benzene
52 U	chloroethane	25 U	cis-1,3-dichloropropene
90	methylene chloride	52 U	2-chloroethyl vinyl ether
84	acetone	25 U	bromoform
25 U	carbon disulfide	52 U	4-methyl-2-pentanone
25 U	1,1-dichloroethene	52 U	2-hexanone
25 U	1,1-dichloroethane	25 U	1,1,2,2-tetrachloroethane
25 U	trans-1,2-dichloroethene	25 U	tetrachloroethene
25 U	chloroform	3 J	toluene
25 U	1,2-dichloroethane	25 U	chlorobenzene
52 U	2-butanone	25 U	ethylbenzene
25 U	1,1,1-trichloroethane	25 U	styrene
25 U	carbon tetrachloride	25 U	xylenes (o+m)
52 U	vinyl acetate	25 U	xylene (p)
25 U	bromodichloromethane	SURROGATE % RECOVERY	
25 U	1,2-dichloropropane	92	1,2-dichloroethane-d4 (SS1)
25 U	trans-1,3-dichloropropene	103	toluene-d8 (SS2)
25 U	trichloroethene	99	bromofluorobenzene (SS3)

RESULT UNITS : ug/kg (micrograms per kilogram)
Results reported on a dry weight basis.

DILUTION FACTOR : 5
% MOISTURE : 3.5

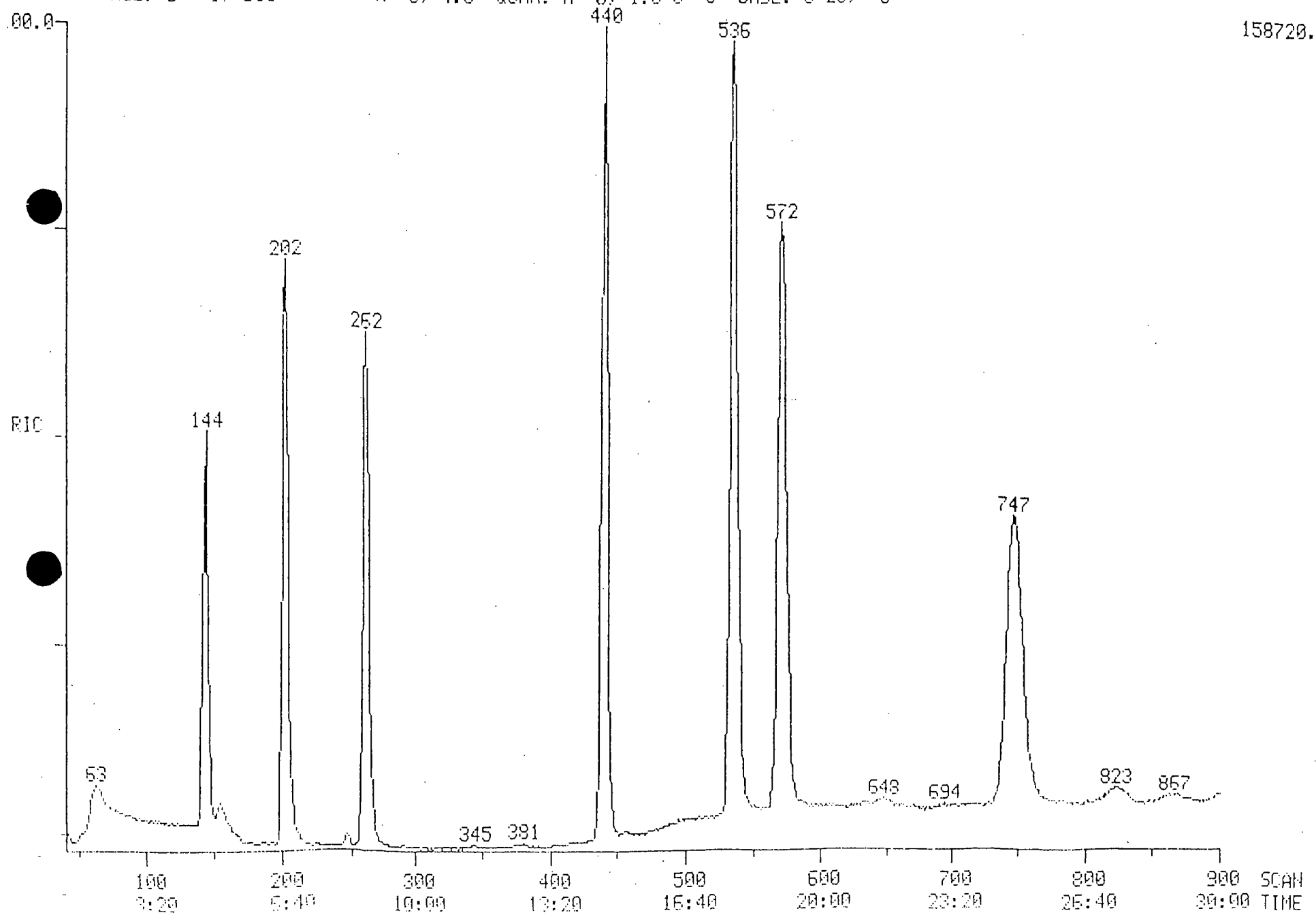
U = indicates the compound was analysed for, but not detected.
The numerical value preceeding "U" is the limit of detection for that compound, based on dilution.
J = indicates an estimated trace value.

ANALYST : ALI

APPROVED BY :

RIC
07/29/88 16:46:00
SAMPLE: 8807575-02/IWM AIRP003C 1.0G
CONDS.: 1050,M1
RANGE: G 1, 900 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 88M1V02322 #1 SCANS 40 TO 900
CALI: 88M1V02322 #2



LESTON ANALYTICS
7101 LORRAINE AVE., SUITE 105
STOCKTON, CA 95210 (209) 957-3405

GC/MS VOLATILE ORGANICS ANALYSIS

LAB REFERENCE NUMBER : WATER BLANK
CLIENT SAMPLE ID : 0801 BLANK
REPORT DATE : 03-08-1988

CLIENT NAME :
FILE ID : BEM1V02335
BLANK ID :
SAMPLE TYPE : WATER

DATE SAMPLED :
DATE RECEIVED :
DATE EXTRACTED :
DATE ANALYSED : 08/01/88

10 U	chloromethane	5 U	dibromochloromethane
10 U	bromomethane	5 U	1,1,2-trichloroethane
10 U	vinyl chloride	5 U	benzene
10 U	chloroethane	5 U	cis-1,3-dichloropropene
5 U	methylene chloride	10 U	2-chloroethyl vinyl ether
6 J	acetone	5 U	bromoform
5 U	carbon disulfide	10 U	4-methyl-2-pentanone
5 U	1,1-dichloroethene	10 U	2-hexanone
5 U	1,1-dichloroethane	5 U	1,1,2,2-tetrachloroethane
5 U	trans-1,2-dichloroethene	5 U	tetrachloroethene
5 U	chloroform	5 U	toluene
5 U	1,2-dichloroethane	5 J	chlorobenzene
10 U	2-butanone	5 U	ethylbenzene
5 U	1,1,1-trichloroethane	5 U	styrene
5 U	carbon tetrachloride	5 U	xylenes (o+m)
10 U	vinyl acetate	5 U	xylene (o)
5 U	bromodichloromethane	SURROGATE % RECOVERY	
5 U	1,2-dichloropropane	91	1,2-dichloroethane-d4 (SS1)
5 U	trans-1,3-dichloropropene	103	toluene-d8 (SS2)
5 U	trichloroethene	102	bromofluorobenzene (SS3)

RESULT UNITS : ug/l (micrograms per liter)

DILUTION FACTOR : 1

U = indicates the compound was analysed for, but not detected.
The numerical value preceeding "U" is the limit of detection for that compound, based on dilution.
J = indicates an estimated trace value.

ANALYST : _____

APPROVED BY : _____

KESTON ANALYTICS
7720 LORRAINE AVE. SUITE 102
STOCKTON CA 95210 209 957-3405

GC/MS VOLATILE ORGANICS ANALYSIS

LAB REFERENCE NUMBER : 3907575--03
CLIENT SAMPLE ID : AIRP003E
REPORT DATE : 09-03-1989

CLIENT NAME : INDUST. WASTE MGMT.
FILE ID : 89MV02344
BLANK ID : 89MV02335
SAMPLE TYPE : SOIL/SEDIMENT/SOLIDS

DATE SAMPLED : 07/19/89
DATE RECEIVED : 07/20/89
DATE EXTRACTED : NA
DATE ANALYSED : 08/01/89

1000	U	chloromethane	620	U	dibromochloromethane
1000	U	bromomethane	620	U	1,1,2-trichloroethane
1000	U	vinyl chloride	620	J	benzene
1000	U	chloroethane	620	J	cis-1,3-dichloropropene
440	J	methylene chloride	1000	U	2-chloroethyl vinyl ether
830	J	acetone	620	U	bromoform
620	U	carbon disulfide	1000	U	4-methyl-2-pentanone
620	U	1,1-dichloroethene	1000	U	2-hexanone
620	U	1,1-dichloroethane	620	U	1,1,2,2-tetrachloroethane
620	U	trans-1,2-dichloroethene	620	U	tetrachloroethene
420	J	chloroform	620	U	toluene
620	U	1,2-dichloroethane	620	U	chlorobenzene
1000	U	2-butanone	3100		ethylbenzene
620	U	1,1,1-trichloroethane	620	U	styrene
620	U	carbon tetrachloride	12000		xylenes (o+m)
1000	U	vinyl acetate	620	U	xylene (p)
620	U	bromodichloromethane	SURROGATE % RECOVERY		
620	U	1,2-dichloropropane	110		1,2-dichloroethane-d4 (SS1)
620	U	trans-1,3-dichloropropene	138		toluene-d8 (SS2)
620	U	trichloroethene	0		bromofluorobenzene (SS3)

RESULT UNITS : ug/kg (micrograms per kilogram)
Results reported on a dry weight basis.

DILUTION FACTOR : 100
% MOISTURE : 4.2

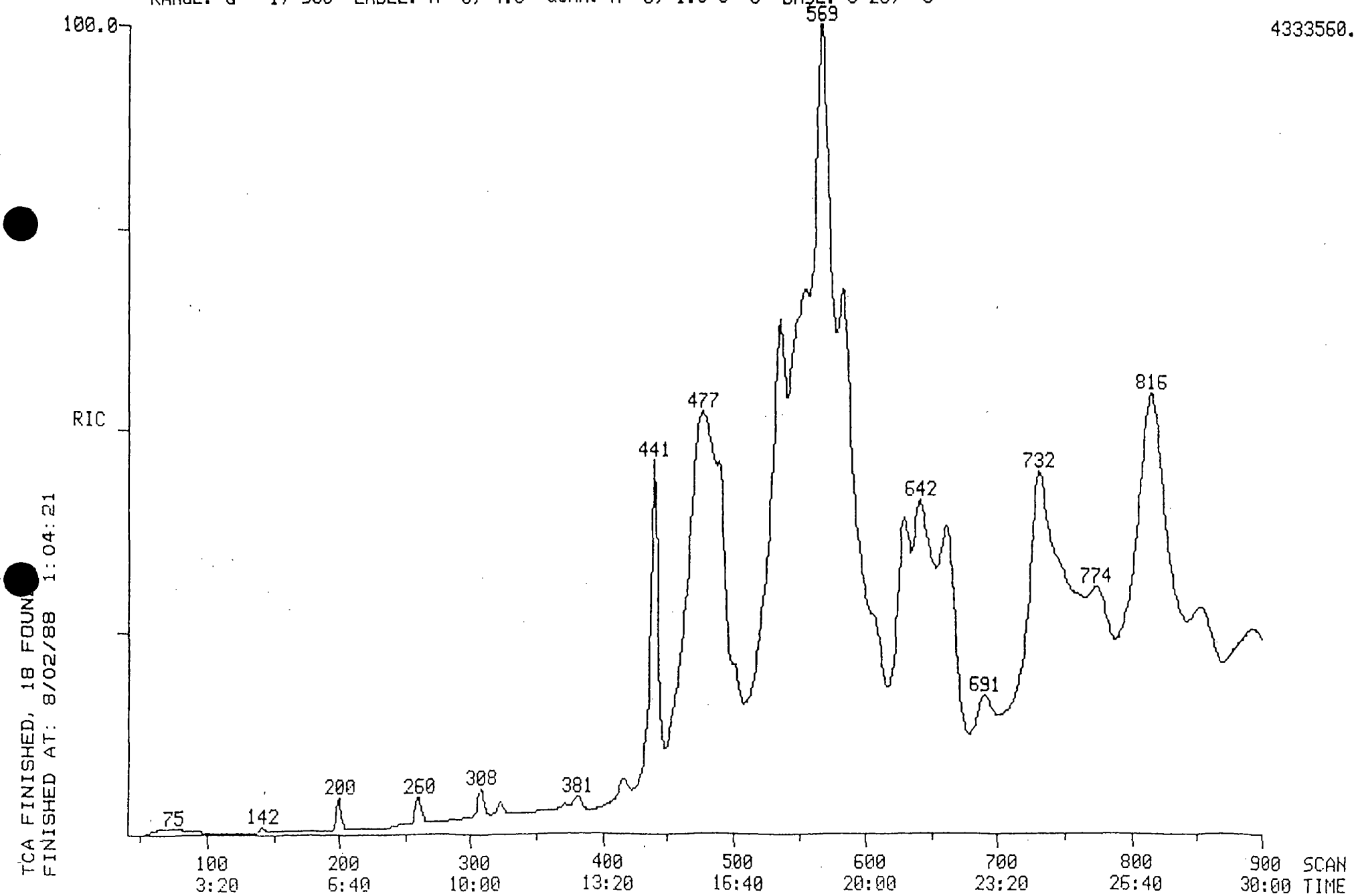
U = indicates the compound was analysed for, but not detected.
The numerical value preceeding 'U' is the limit of detection for that compound, based on dilution.
J = indicates an estimated trace value.

ANALYST : Ali

APPROVED BY :

RIC
08/01/88 21:38:00
SAMPLE: 8807575-03/IWM AIRP003E 100UL DF=100
CONDS.: 1050,M1
RANGE: G 1, 900 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 88M1V02344 #1 SCANS 40 TO 900
CALI: 88M1V02344 #2



TCA FINISHED, 18 FOUND
FINISHED AT: 8/02/88 1:04:21

WESTON ANALYTICS
2720 LORRAINE AVE. SUITE 102
STOCKTON CA 95210 209 957-3405

GC/MS VOLATILE ORGANICS ANALYSIS

LAB REFERENCE NUMBER : 8307376-04
CLIENT SAMPLE ID : AIRP0038
REPORT DATE : 08-03-1988

CLIENT NAME : INDUST. WASTE MGMT.
METHOD : 625/8270
BLANK ID : BEM1V02338
SAMPLE TYPE : WATER

DATE SAMPLED : 07/19/88
DATE RECEIVED : 07/20/88
DATE EXTRACTED : NA
DATE ANALYSED : 08/01/88

50 U	chloromethane	25 U	bromodichloromethane
50 U	bromomethane	25 U	1,1,2-trichloroethane
50 U	vinyl chloride	25 U	benzene
50 U	chloroethane	25 U	cis-1,3-dichloropropene
46	methylene chloride	50 U	2-chloroethyl vinyl ether
44 J	acetone	25 U	bromoform
25 U	carbon disulfide	50 U	4-methyl-2-pentanone
25 U	1,1-dichloroethene	50 U	2-hexanone
25 U	1,1-dichloroethane	25 U	1,1,2,2-tetrachloroethane
25 U	trans-1,2-dichloroethene	25 U	tetrachloroethene
56	chloroform	25 U	toluene
25 U	1,2-dichloroethane	25 U	chlorobenzene
50 U	2-butanone	25 U	ethylbenzene
25 U	1,1,1-trichloroethane	25 U	styrene
25 U	carbon tetrachloride	25 U	xylenes (o+m)
50 U	vinyl acetate	25 U	xylene (p)
25 U	bromodichloromethane	SURROGATE % RECOVERY	
25 U	1,2-dichloropropane	105	1,2-dichloroethane-d4 (SS1)
25 U	trans-1,3-dichloropropene	100	toluene-d8 (SS2)
25 U	trichloroethene	0	bromofluorobenzene (SS3)

RESULT UNITS : ug/l (micrograms per litre)

DILUTION FACTOR : 5

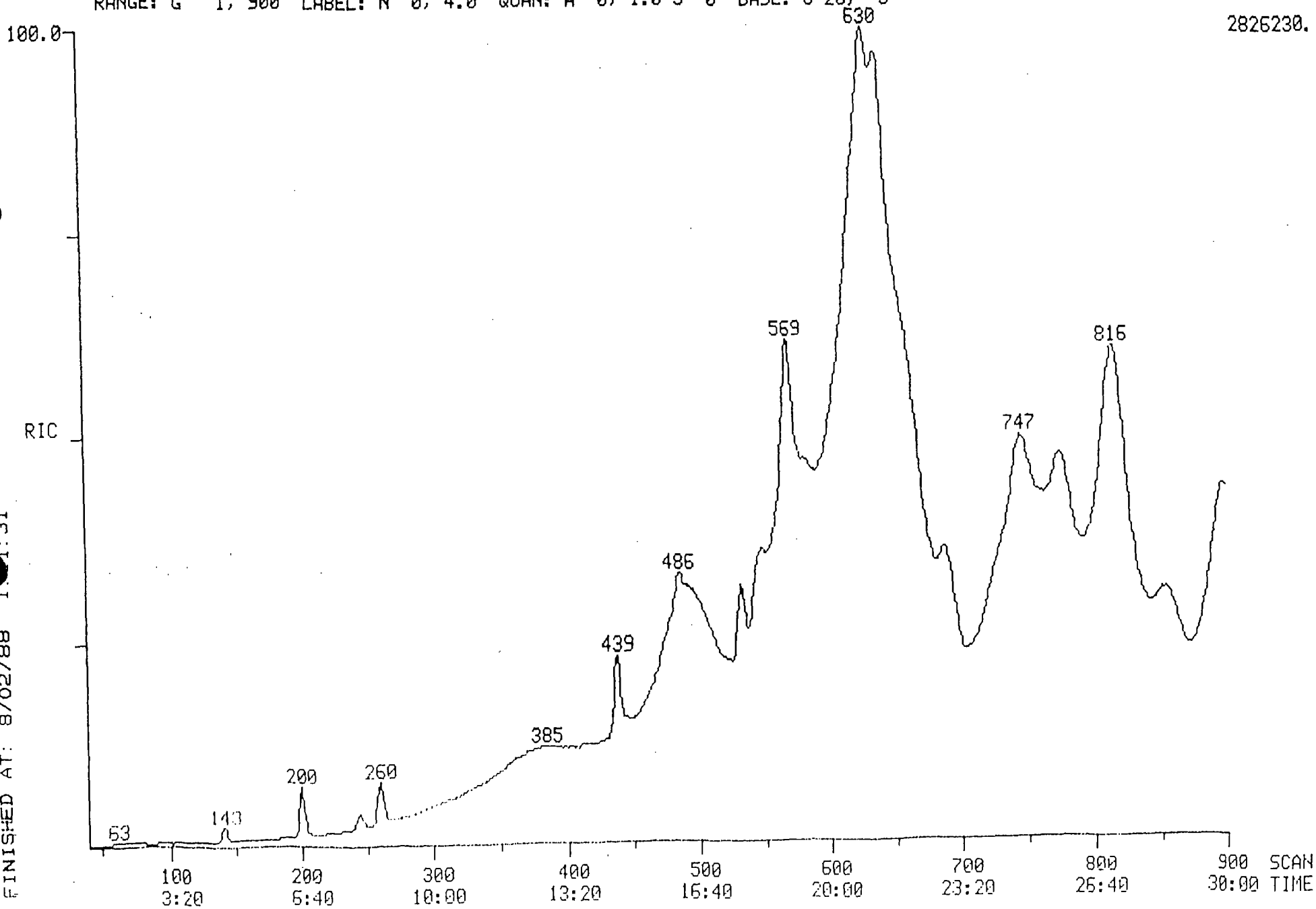
U = indicates the compound was analysed for, but not detected.
The numerical value preceeding 'U' is the limit of detection for that compound, based on dilution.
J = indicates an estimated trace value.

ANALYST : ALi

APPROVED BY :

RIC
08/01/88 22:21:00
SAMPLE: 8807575-04/IWM AIRP003G 1.0G
CONDS.: 1050,M1
RANGE: G 1, 900 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 88M1V02345 #1 SCANS 40 TO 900
CALI: 88M1V02345 #2



TCA FINISHED, 11 FOUND
FINISHED AT: 8/02/88 1[illegible]:31

WESTON ANALYTICS
7720 LORRAINE AVE. SUITE 102
STOCKTON CA 95210 209 957-3405

GC/MS SEMI-VOLATILE ORGANICS ANALYSIS

LAB REFERENCE NUMBER : BLANK-QA88225
CLIENT SAMPLE ID : 8807S075
REPORT DATE : 07-29-1988

CLIENT NAME : CAM
FILE ID : 88M3BN1340
BLANK ID : 88M3BN1340
SAMPLE TYPE : SOIL/SEDIMENT/SOLIDS

DATE SAMPLED :
DATE RECEIVED :
DATE EXTRACTED : 07/21/88
DATE ANALYSED : 07/29/88

330 U	n-nitroso-dimethylamine	330 U	dibenzofuran
330 U	phenol	330 U	2,4-dinitrotoluene
330 U	aniline	330 U	2,6-dinitrotoluene
330 U	bis(2-chloroethyl) ether	330 U	diethyl phthalate
330 U	2-chlorophenol	330 U	4-chlorophenyl phenyl ether
330 U	1,3-dichlorobenzene	330 U	fluorene
330 U	1,4-dichlorobenzene	1600 U	4-nitroaniline
330 U	benzyl alcohol	1600 U	4,6-dinitro-2-methylphenol
330 U	1,2-dichlorobenzene	330 U	n-nitrosodiphenylamine
330 U	2-methylphenol	330 U	4-bromophenyl phenyl ether
330 U	bis(2-chloroisopropyl) ether	330 U	hexachlorobenzene
330 U	4-methylphenol	1600 U	pentachlorophenol
330 U	n-nitroso-di-n-propylamine	330 U	phenanthrene
330 U	hexachloroethane	330 U	anthracene
330 U	nitrobenzene	330 U	di-n-butyl phthalate
330 U	isophorone	330 U	fluoranthene
330 U	2-nitrophenol	1600 U	benzidine
330 U	2,4-dimethylphenol	330 U	pyrene
1600 U	benzoic acid	330 U	butyl benzyl phthalate
330 U	bis(2-chloroethoxy) methane	660 U	3,3'-dichlorobenzidine
330 U	2,4-dichlorophenol	330 U	benzo(a)anthracene
330 U	1,2,4-trichlorobenzene	41 J	bis(2-ethylhexyl)phthalate
330 U	naphthalene	330 U	chrysene
330 U	4-chloroaniline	330 U	di-n-octyl phthalate
330 U	hexachlorobutadiene	330 U	benzo(b)fluoranthene
330 U	4-chloro-3-methylphenol	330 U	benzo(k)fluoranthene
330 U	2-methylnaphthalene	330 U	benzo(a)pyrene
330 U	hexachlorocyclopentadiene	330 U	indeno(1,2,3-cd)pyrene
330 U	2,4,6-trichlorophenol	330 U	dibenz(a,h)anthracene
1600 U	2,4,5-trichlorophenol	330 U	benzo(g,h,i)perylene
330 U	2-chloronaphthalene	SURROGATE % RECOVERY	
1600 U	2-nitroaniline	98	2-fluorophenol (SS1)
330 U	dimethyl phthalate	94	phenol-d5 (SS2)
330 U	acenaphthylene	96	nitrobenzene-d5 (SS3)
1600 U	3-nitroaniline	99	2-fluorobiphenyl
330 U	acenaphthene	116	2,4,6-tribromophenol (SS5)
1600 U	2,4-dinitrophenol	125	p-terphenyl-d14 (SS6)
1600 U	4-nitrophenol		

RESULT UNITS : ug/kg (micrograms per kilogram)
Results reported on a wet weight basis.

DILUTION FACTOR : 1

U = indicates the compound was analysed for, but not detected.
The numerical value preceeding 'U' is the limit of detection for that compound, based on dilution.
J = indicates an estimated trace value.

ANALYST : R. F. Cassidy

APPROVED BY :

Laboratory Name WESTON

Case No Blank - QA 8825

Sample Number
Blank - QA8825

88M3BN1340

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	None found			
2.				
3.				
4.				
5.				
6.				
7				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30				

WESTON ANALYTICS
7726 LORRAINE AVE. SUITE 102
STOCKTON CA 95210 209 957-3405

GC/MS SEMI-VOLATILE ORGANICS ANALYSIS

LAB REFERENCE NUMBER : 8807SC75-01
CLIENT SAMPLE ID : AIRP003A
REPORT DATE : 08-03-1988

CLIENT NAME : IWM
FILE ID : 88M3BN1345
BLANK ID : 88M3BN1340
SAMPLE TYPE : SOIL/SEDIMENT/SOLIDS

DATE SAMPLED : 07/19/88
DATE RECEIVED : 07/20/88
DATE EXTRACTED : 07/21/88
DATE ANALYSED : 07/29/88

370 U	n-nitroso-dimethylamine	370 U	dibenzofuran
370 U	phenol	370 U	2,4-dinitrotoluene
370 U	aniline	370 U	2,6-dinitrotoluene
370 U	bis(2-chloroethyl) ether	370 U	diethyl phthalate
370 U	2-chlorophenol	370 U	4-chlorophenyl phenyl ether
370 U	1,3-dichlorobenzene	370 U	fluorene
370 U	1,4-dichlorobenzene	1800 U	4-nitroaniline
370 U	benzyl alcohol	1800 U	4,6-dinitro-2-methylphenol
370 U	1,2-dichlorobenzene	370 U	n-nitrosodiphenylamine
370 U	2-methylphenol	370 U	4-bromophenyl phenyl ether
370 U	bis(2-chloroisopropyl) ether	370 U	hexachlorobenzene
370 U	4-methylphenol	1800 U	pentachlorophenol
370 U	n-nitroso-di-n-propylamine	170 J	phenanthrene
370 U	hexachloroethane	370 U	anthracene
370 U	nitrobenzene	370 U	di-n-butyl phthalate
370 U	isophorone	370 U	fluoranthene
370 U	2-nitrophenol	1800 U	benzidine
370 U	2,4-dimethylphenol	370 U	pyrene
1800 U	benzoic acid	370 U	butyl benzyl phthalate
370 U	bis(2-chloroethoxy) methane	730 U	3,3'-dichlorobenzidine
370 U	2,4-dichlorophenol	370 U	benzo(a)anthracene
370 U	1,2,4-trichlorobenzene	370 U	bis(2-ethylhexyl)phthalate
370 U	naphthalene	370 U	chrysene
370 U	4-chloroaniline	370 U	di-n-octyl phthalate
370 U	hexachlorobutadiene	370 U	benzo(b)fluoranthene
370 U	4-chloro-3-methylphenol	370 U	benzo(k)fluoranthene
120 J	2-methylnaphthalene	370 U	benzo(a)pyrene
370 U	hexachlorocyclopentadiene	370 U	indeno(1,2,3-cd)pyrene
370 U	2,4,6-trichlorophenol	370 U	dibenz(a,h)anthracene
1300 U	2,4,5-trichlorophenol	370 U	benzo(g,h,i)perylene
370 U	2-chloronaphthalene		SURROGATE % RECOVERY
1800 U	2-nitroaniline	97	2-fluorophenol (SS1)
370 U	dimethyl phthalate	98	phenol-d5 (SS2)
370 U	acenaphthylene	89	nitrobenzene-d5 (SS3)
1800 U	3-nitroaniline	98	2-fluorobiphenyl
370 U	acenaphthene	98	2,4,6-tribromophenol (SS5)
1300 U	2,4-dinitrophenol	95	p-terphenyl-d14 (SS6)
1800 U	4-nitrophenol		

RESULT UNITS : ug/kg (micrograms per kilogram)
Results reported on a dry weight basis.

DILUTION FACTOR : 1
% MOISTURE : 10

U = indicates the compound was analysed for, but not detected.
The numerical value preceeding 'U' is the limit of detection for that compound, based on dilution.
J = indicates an estimated trace value.

ANALYST : R. F. Conway

APPROVED BY : DC

ORGANIC ANALYSIS DATA SHEET PAGE 3

ATTN ENVIRONMENTAL LABORATORY
[illegible] LIBRAINE AVE., SUITE 105
[illegible]TON [illegible] 95210 209-957-3405

DATAFILE: 88M03N1345
SAMPLE: 88073073-02 IWM AIRPOC
MISC: SN: INST: 4500,30G=>1ML

3 TENTATIVELY IDENTIFIED COMPOUNDS

	SEMIVOLATILE COMPOUND NAMES	SCAN#	AMOUNT UG/L / UG/KG
_____	UNKNOWN	137	~~313 J~~
_____	UNKNOWN	553	81 J
_____	DECANE	607	151 J
_____	NONANE, 2,6-DIMETHYL-	638	76 J
_____	DECANE, 2,5,6-TRIMETHYL-	740	202 J
_____	UNDECANE, 4,7-DIMETHYL-	861	94 J
_____	UNDECANE, 4,7-DIMETHYL-	1084	68 J
_____	UNKNOWN	1292	68 J
_____	HEPTADECANE	1365	70 J

5 OUT OF 6 INTERNAL STANDARDS FOUND

J = ESTIMATED VALUE - A 1:1 RESPONSE FACTOR IS ASSUMED

WESTON ANALYTICS
7100 LORRAINE AVE. SUITE 102
STOCKTON CA 95210 209 957-3405

GC/MS SEMI-VOLATILE ORGANICS ANALYSIS

LAB REFERENCE NUMBER : 8807S075-03MSD
CLIENT SAMPLE ID : AIRPOOSE-MSD
REPORT DATE : 07-29-1998

CLIENT NAME : CWM
FILE ID : 03M3BN1349
BLANK ID : 03M3BN1340
SAMPLE TYPE : SOIL/SEDIMENT/SOLIDS

DATE SAMPLED : 07/19/88
DATE RECEIVED : 07/20/88
DATE EXTRACTED : 07/21/98
DATE ANALYSED : 07/23/98

360	U	n-nitroso-dimethylamine
4500		phenol
360	U	aniline
360	U	bis(2-chloroethyl) ether
3300		2-chlorophenol
360	U	1,3-dichlorobenzene
1300		1,4-dichlorobenzene
360	U	benzyl alcohol
360	U	1,2-dichlorobenzene
360	U	2-methylphenol
360	U	bis(2-chloroisopropyl) ether
360	U	4-methylphenol
2500		n-nitroso-di-n-propylamine
360	U	hexachloroethane
360	U	nitrobenzene
360	U	isophorone
360	U	2-nitrophenol
360	U	2,4-dimethylphenol
1700	U	benzoic acid
360	U	bis(2-chloroethoxy) methane
360	U	2,4-dichlorophenol
2300		1,2,4-trichlorobenzene
360	U	naphthalene
360	U	4-chloroaniline
360	U	hexachlorobutadiene
7200		4-chloro-3-methylphenol
69	J	2-methylnaphthalene
360	U	hexachlorocyclopentadiene
360	U	2,4,6-trichlorophenol
1700	U	2,4,5-trichlorophenol
360	U	2-chloronaphthalene
1700	U	2-nitroaniline
360	U	dimethyl phthalate
360	U	acenaphthylene
1700	U	3-nitroaniline
4600		acenaphthene
1700	U	2,4-dinitrophenol
1700	U	4-nitrophenol

360	U	dibenzofuran
4100		2,4-dinitrotoluene
360	U	2,6-dinitrotoluene
360	U	diethyl phthalate
360	U	4-chlorophenyl phenyl ether
360	U	fluorene
1700	U	4-nitroaniline
1700	U	4,6-dinitro-2-methylphenol
42	J	n-nitrosodiphenylamine
360	U	4-bromophenyl phenyl ether
360	U	hexachlorobenzene
4300		pentachlorophenol
150	J	phenanthrene
360	U	anthracene
4400		di-n-butyl phthalate
110	J	fluoranthene
1700	U	benzidine
4600		pyrene
360	U	butyl benzyl phthalate
720	U	3,3'-dichlorobenzidine
360	U	benzo(a)anthracene
140	J	bis(2-ethylhexyl)phthalate
54	J	chrysene
360	U	di-n-octyl phthalate
360	U	benzo(b)fluoranthene
360	U	benzo(k)fluoranthene
360	U	benzo(a)pyrene
360	U	indeno(1,2,3-cd)pyrene
360	U	dibenz(a,h)anthracene
360	U	benzo(g,h,i)perylene
SURROGATE % RECOVERY		
57		2-fluorophenol (SS1)
73		phenol-d5 (SS2)
84		nitrobenzene-d5 (SS3)
102		2-fluorobiphenyl
96		2,4,6-tribromophenol (SS5)
98		p-terphenyl-d14 (SS6)

RESULT UNITS : ug/kg (micrograms per kilogram)
Results reported on a dry weight basis.

DILUTION FACTOR : 1
% MOISTURE : 0

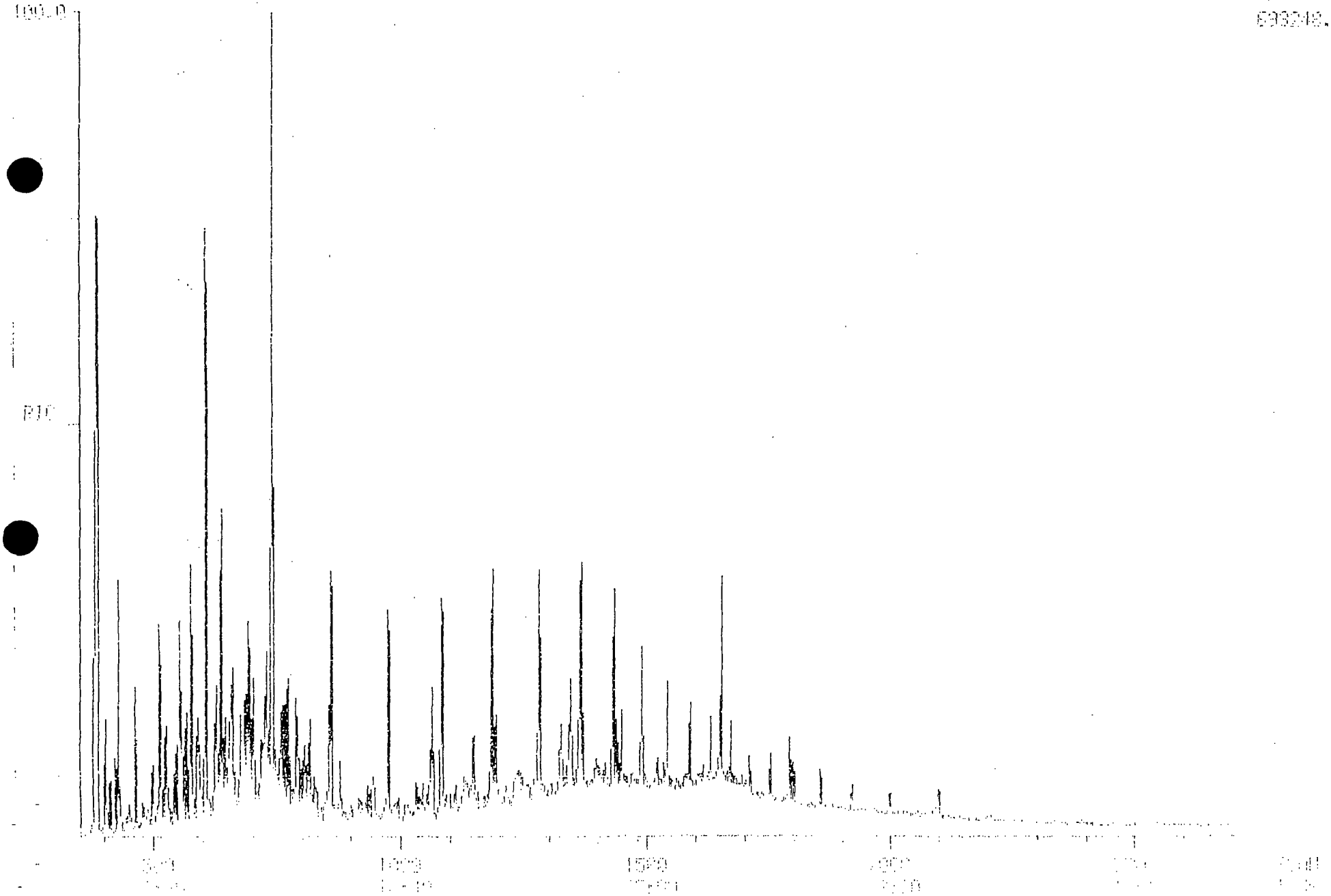
U = indicates the compound was analysed for, but not detected.
The numerical value preceeding 'U' is the limit of detection for that compound, based on dilution.
J = indicates an estimated trace value.

ANALYST : R. F. Lawney

APPROVED BY :

RIC
07/29/88 11:41:00
SAMPLE: 8807S075-01 IWM AIRP003A
CONDS.: BN. INST: 4500.30G=>1ML
RANGE: G 1.2700 LABEL: N 0. 4.0 QUAN: A 0. 1.0 J 0 BASE: U 20. 3

DATA: 88M3BN1345 #1 SCANS 350 TO 2700
CALI: 88M3BN1345 #5



WESTON ANALYTICS
7720 LORRAINE AVE. SUITE 102
STOCKTON CA 95210 209 957-3405

GC/MS SEMI-VOLATILE ORGANICS ANALYSIS

LAB REFERENCE NUMBER : 8807S075-02
CLIENT SAMPLE ID : AIRP003C
REPORT DATE : 08-03-1988

CLIENT NAME : IWM
FILE ID : 88M3BN1345
BLANK ID : 88m3bn1349
SAMPLE TYPE : SOIL/SEDIMENT/SOLIDS

DATE SAMPLED : 07/19/88
DATE RECEIVED : 07/20/88
DATE EXTRACTED : 07/21/88
DATE ANALYSED : 07/29/88

91000 U	n-nitroso-dimethylamine	91000 U	dibenzofuran
91000 U	phenol	91000 U	2,4-dinitrotoluene
91000 U	aniline	91000 U	2,6-dinitrotoluene
91000 U	bis(2-chloroethyl) ether	91000 U	diethyl phthalate
91000 U	2-chlorophenol	91000 U	4-chlorophenyl phenyl ether
91000 U	1,3-dichlorobenzene	91000 U	fluorene
91000 U	1,4-dichlorobenzene	440000 U	4-nitroaniline
91000 U	benzyl alcohol	440000 U	4,6-dinitro-2-methylphenol
91000 U	1,2-dichlorobenzene	91000 U	n-nitrosodiphenylamine
91000 U	2-methylphenol	91000 U	4-bromophenyl phenyl ether
91000 U	bis(2-chloroisopropyl) ether	91000 U	hexachlorobenzene
91000 U	4-methylphenol	440000 U	pentachlorophenol
91000 U	n-nitroso-di-n-propylamine	91000 U	phenanthrene
91000 U	hexachloroethane	68000 J	anthracene
91000 U	nitrobenzene	91000 U	di-n-butyl phthalate
91000 U	isophorone	91000 U	fluoranthene
91000 U	2-nitrophenol	440000 U	benzidine
91000 U	2,4-dimethylphenol	91000 U	pyrene
440000 U	benzoic acid	91000 U	butyl benzyl phthalate
91000 U	bis(2-chloroethoxy) methane	180000 U	3,3'-dichlorobenzidine
91000 U	2,4-dichlorophenol	91000 U	benzo(a)anthracene
91000 U	1,2,4-trichlorobenzene	91000 U	bis(2-ethylhexyl)phthalate
91000 U	naphthalene	91000 U	chrysene
91000 U	4-chloroaniline	91000 U	di-n-octyl phthalate
91000 U	hexachlorobutadiene	91000 U	benzo(b)fluoranthene
91000 U	4-chloro-3-methylphenol	91000 U	benzo(k)fluoranthene
140000	2-methylnaphthalene	91000 U	benzo(a)pyrene
91000 U	hexachlorocyclopentadiene	91000 U	indeno(1,2,3-cd)pyrene
91000 U	2,4,6-trichlorophenol	91000 U	dibenz(a,h)anthracene
440000 U	2,4,5-trichlorophenol	91000 U	benzo(g,h,i)perylene
91000 U	2-chloronaphthalene		SURROGATE % RECOVERY
440000 U	2-nitroaniline	98	2-fluorophenol (SS1)
91000 U	dimethyl phthalate	99	phenol-d5 (SS2)
91000 U	acenaphthylene	94	nitrobenzene-d5 (SS3)
440000 U	3-nitroaniline	94	2-fluorobiphenyl
91000 U	acenaphthene	99	2,4,6-tribromophenol (SS5)
440000 U	2,4-dinitrophenol	101	p-terphenyl-d14 (SS6)
440000 U	4-nitrophenol		

RESULT UNITS : ug/kg (micrograms per kilogram)
Results reported on a dry weight basis.

DILUTION FACTOR : 252
% MOISTURE : 9

U = indicates the compound was analysed for, but not detected.
The numerical value preceeding 'U' is the limit of detection for that compound, based on dilution.
J = indicates an estimated trace value.

ANALYST : R. I. Cavney

APPROVED BY :

ORGANIC ANALYSIS DATA SHEET PAGE 1

ETON ENVIRONMENTAL LABORATORY
ED LORRAINE AVE. SUITE 105
TOCKTON CA 95210 209-957-3405

DATAFILE: 88M3DN1346
SAMPLE: 88078075-02 TWM AIRPO
MISC: 3N, INST: 4500, 1.31G

TENTATIVELY IDENTIFIED COMPOUNDS

A	SEMIVOLATILE COMPOUND NAMES	SCAN#	AMOUNT
			UG/L / UG/K
	UNKNOWN	350	~~87 J~~
	DECANE	406	53 J
	DECANE, 2,5,6-TRIMETHYL-	739	73 J
	UNKNOWN	862	45 J
	UNDECANE, 4,7-DIMETHYL-	877	46 J
	UNDECANE, 4,7-DIMETHYL-	1085	65 J
	HEPTADECANE, 2,6-DIMETHYL-	1136	68 J
	HEXADECANE	1232	54 J
	HEPTADECANE	1365	85 J
	UNKNOWN	1432	60 J

6 OUT OF 6 INTERNAL STANDARDS FOUND

J = ESTIMATED VALUE - A 1:1 RESPONSE FACTOR IS ASSUMED

[illegible] ANALYSIS DATA SHEET [illegible] PAGE [illegible]

[illegible] ENVIRONMENTAL LABORATORY
[illegible] AIRPORT AVE. SUITE 109
[illegible] 98210 206-257-3400

DATA FILE: [illegible]3M03M1047
SAMPLE: R3073075-03 IWM AIRPO
MISC: [illegible] INST 4500, 30G=>1M

[illegible] TENTATIVELY IDENTIFIED COMPOUNDS

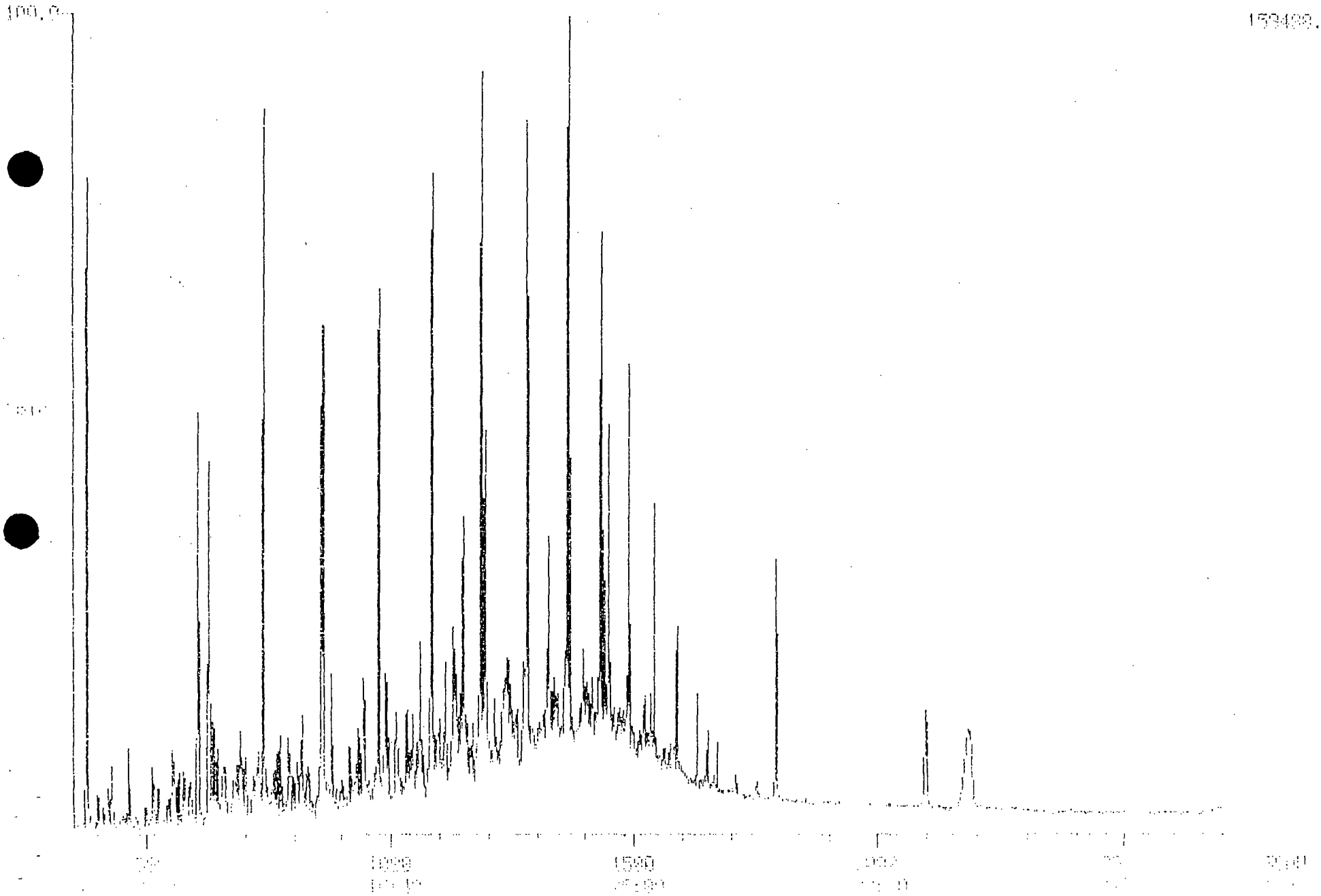
	TENTATIVELY IDENTIFIED COMPOUND NAME	CAS#	AMOUNT
			UG/L / UG/
[illegible]	UNKNOWN	[illegible]54	~~372~~ J
[illegible]	UNKNOWN	[illegible]044	~~49~~ J
[illegible]	CYCLOPENTADIENE	[illegible]553	46 J
[illegible]	UNKNOWN	[illegible]423	44 J
[illegible]	UNKNOWN	[illegible]000	93 J

[illegible] OUT OF [illegible] INTERNAL STANDARDS FOUND

[illegible] ESTIMATED VALUE - A 1.1 RESPONSE FACTOR IS ASSUMED

RIC
07/29/88 12:44:00
SAMPLE: 8807S075-02 IWM AIRP003C
CONDS.: BN, INST: 4500, 1.31G=>1ML, 1:10 DILUTION
RANGE: G 1,2700 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 88M3BN1346 #1 SCANS 350 TO 2700
CALI: 88M3BN1346 #5



WESTON ANALYTICS
7726 LORRAINE AVE. SUITE 102
STOCKTON CA 95210 209 957-3405

GC/MS SEMI-VOLATILE ORGANICS ANALYSIS

REFERENCE NUMBER : 9807S075-03
CLIENT SAMPLE ID : AIRP003E
REPORT DATE : 09-03-1998

CLIENT NAME : IWM
FILE ID : 98M3BN1347
BLANK ID : 98m3bn1340
SAMPLE TYPE : SOIL/SEDIMENT/SOLIDS

DATE SAMPLED : 07/19/98
DATE RECEIVED : 07/20/98
DATE EXTRACTED : 07/21/98
DATE ANALYSED : 07/29/98

360 U	n-nitroso-dimethylamine	360 U	dibenzofuran
360 U	phenol	360 U	2,4-dinitrotoluene
360 U	aniline	360 U	2,6-dinitrotoluene
360 U	bis(2-chloroethyl) ether	360 U	diethyl phthalate
360 U	2-chlorophenol	360 U	4-chlorophenyl phenyl ether
360 U	1,3-dichlorobenzene	360 U	fluorene
360 U	1,4-dichlorobenzene	1700 U	4-nitroaniline
360 U	benzyl alcohol	1700 U	4,6-dinitro-2-methylphenol
360 U	1,2-dichlorobenzene	360 U	n-nitrosodiphenylamine
360 U	2-methylphenol	360 U	4-bromophenyl phenyl ether
360 U	bis(2-chloroisopropyl) ether	360 U	hexachlorobenzene
360 U	4-methylphenol	1700 U	pentachlorophenol
360 U	n-nitroso-di-n-propylamine	120 J	phenanthrene
360 U	hexachloroethane	360 U	anthracene
360 U	nitrobenzene	360 U	di-n-butyl phthalate
360 U	isophorone	360 U	fluoranthene
360 U	2-nitrophenol	1700 U	benzidine
360 U	2,4-dimethylphenol	360 U	pyrene
1700 U	benzoic acid	360 U	butyl benzyl phthalate
360 U	bis(2-chloroethoxy) methane	720 U	3,3'-dichlorobenzidine
360 U	2,4-dichlorophenol	360 U	benzo(a)anthracene
360 U	1,2,4-trichlorobenzene	360 U	bis(2-ethylhexyl)phthalate
360 U	naphthalene	360 U	chrysene
360 U	4-chloroaniline	360 U	di-n-octyl phthalate
360 U	hexachlorobutadiene	360 U	benzo(b)fluoranthene
360 U	4-chloro-3-methylphenol	360 U	benzo(k)fluoranthene
360 U	2-methylnaphthalene	360 U	benzo(a)pyrene
360 U	hexachlorocyclopentadiene	360 U	indeno(1,2,3-cd)pyrene
360 U	2,4,6-trichlorophenol	360 U	dibenz(a,h)anthracene
1700 U	2,4,5-trichlorophenol	360 U	benzo(g,h,i)perylene
360 U	2-chloronaphthalene		SURROGATE % RECOVERY
1700 U	2-nitroaniline	96	2-fluorophenol (SS1)
360 U	dimethyl phthalate	99	phenol-d5 (SS2)
360 U	acenaphthylene	91	nitrobenzene-d5 (SS3)
1700 U	3-nitroaniline	91	2-fluorobiphenyl
360 U	acenaphthene	96	2,4,6-tribromophenol (SS5)
1700 U	2,4-dinitrophenol	92	p-terphenyl-d14 (SS6)
1700 U	4-nitrophenol		

RESULT UNITS : ug/kg (micrograms per kilogram)
Results reported on a dry weight basis.

DILUTION FACTOR : 1
% MOISTURE : 0

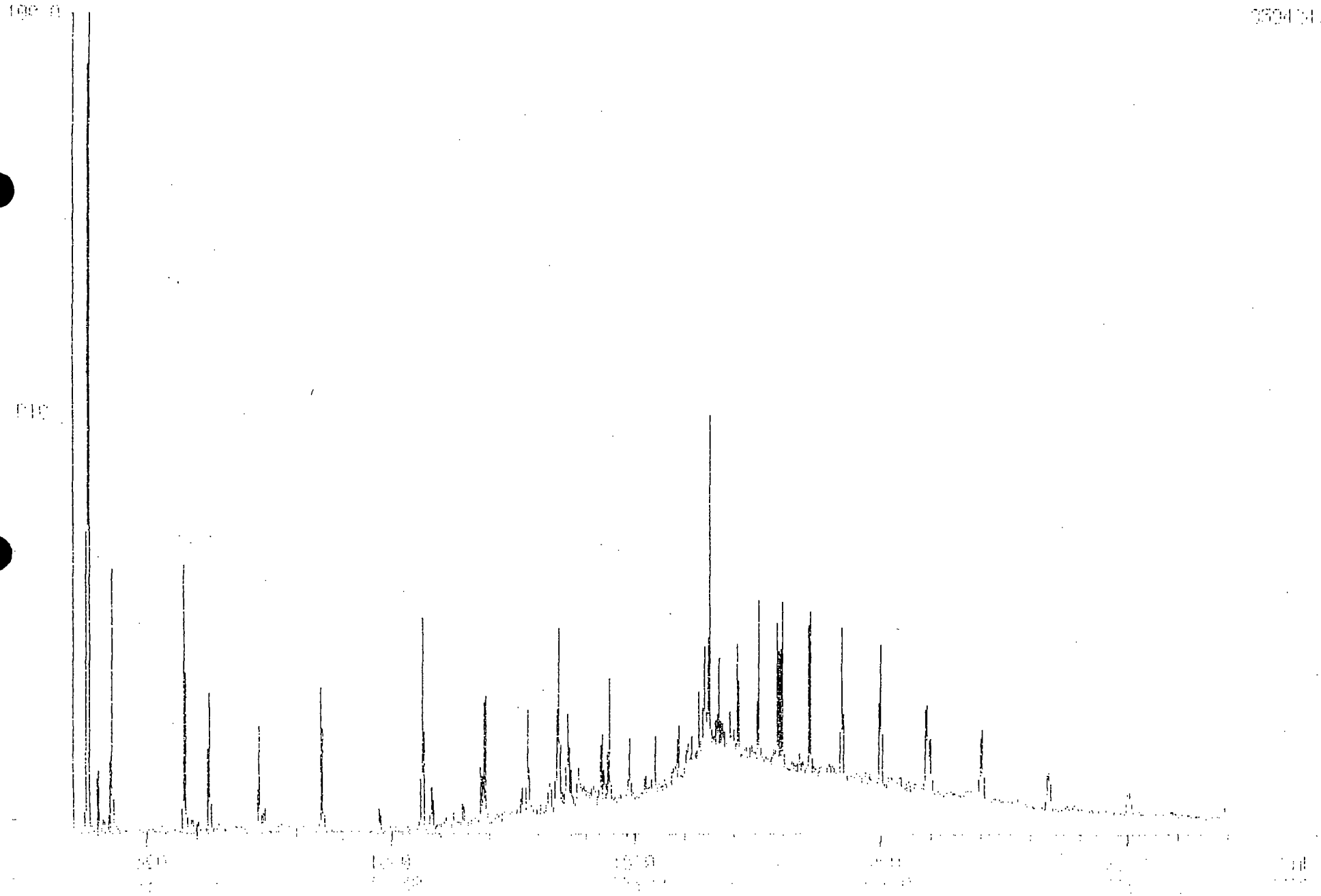
U = indicates the compound was analysed for, but not detected.
The numerical value preceeding "U" is the limit of detection for that compound, based on dilution.
J = indicates an estimated trace value.

ANALYST : R. F. Cauley

APPROVED BY : [signature]

RIC
07/29/88 13:47:00
SAMPLE: 88075075-03 INH AIRP003E
CONDS.: BN. INST: 4500. 30G=>1ML
RANGE: S 1.2700 I-CBL: N 0. 4.0 CHAN: 0 0. 1.0 J 0 BASE: U 79 3

DATA: 88M3BN1347 #1 SCANS 350 TO 2700
CALI: 88M3BN1347 #5



Custody Transfer Record/Lab Work Request

WESTON

WESTON Analytics Use Only

Client: INDUSTRIAL WASTE MANAGEMENT
Work Order:
Date Rec'd.: 7-16-88 Date Due: 3-5 working DAY
RFW Contact: Chris HEINZ
Client Contact/Phone: GLEN KURDUSKI / 314-534-2266

			Refrigerator#									
			#/Type Container	B.Gl.	B.Gl.	plastic	B.Gl.	B.Gl.	B.Gl	plastic		
			Containers/Volume	1/2 gal	1/2 gal	qt	40 ml	40 ml	1/2 gal	qt		
			Preservative	4°C	4°C	HNO3 4°C	4°C	4°C	4°C	HNO3 4°C		
			ANALYSES REQUESTED	BNA's	Header Ignit PCB BTU Corros	EP TOX	VOA's	VOA's	BNA BTU, PCB Ignit Corros Reactivity	EP TOX		
WA Use Only Lab ID	Client ID/Description		Matrix	Date Collected	7/15/88	7/15/88	7/15/88	7/15/88	7/15/88	7/15/88	7/15/88	
	AIR 001 BA	composite	DL	7-15-88	1							
	AIR 001 MC	composite	DL	"		1						
	AIR 001 EP	composite	DL	"			1					
	AIR 001 VC	(composite in lab)	DL	"				5				
	AIR 002 VC	(composite in lab)	DL	"					5			
	AIR 002 BA	composite	DL	"						1		
	AIR 002 EP	composite	DL	"							1	

Matrix:
S - Soil
SE - Sediment
SO - Solid
W - Water
O - Oil
A - Air
DS - Drum Solids
DL - Drum Liquids
F - Fish
X - Other

Special Instructions:

Item/Reason	Relinquished by	Received by	Date	Time	Item/Reason	Relinquished by	Received by	Date	Time
Sent to Lab	Glen Kurduski	~~Weston~~	7/15/88	16:00					

WESTON Analytics Use Only

Samples Were:
1 Shipped or Hand-Delivered
NOTES:

2 Ambient or Chilled
NOTES:

3 Received Broken/Leaking (Improperly Sealed)
Y N
NOTES:

4 Properly Preserved
Y N
NOTES:

5 Received Within Holding Times
Y N
NOTES:

COC Tape Was:
1 Present on Outer Package Y N
2 Unbroken on Outer Package Y N
3 Present on Sample Y N
4 Unbroken on Sample Y N
NOTES:

COC Record Was:
1 Present Upon Receipt of Samples Y N

Discrepancies Between Sample Labels and COC Record? Y N
NOTES:

RFW 21-21-001/A-5/88

7-115

NEXT DAY AIR SHIPPER RECEIPT TRACKING NO. 1177 7661 845

WESTON Analytics Use Only

Custody Transfer Record/Lab Work Request

WESTON

Client: INDUSTRIAL WASTE MANAGEMENT
Work Order:
Date Rec'd.: 7-20-88 Date Due: 3-5 working days
RFW Contact: Chris Heinz
Client Contact/Phone: Glen Kurowski/314 534 2266

Refrigerator#										
#/Type Container	B.Gl	B.Gl	B.Gl	B Gl	B Gl	B Gl	B Gl		
Containers/Volume	QT	QT	QT	QT	QT	QT	QT		
Preservative	4°C	4°C	4°C	4°C	4°C	4°C	4°C		
ANALYSES REQUESTED	BNA	VOA	EP TOX	BTU	REACTIVITY	Ignitability	Corrosivity		

WA Use Only Lab ID	Client ID/Description	Matrix	Date Collected								
	AIRP003 A (LARGE MOUND)	S	7/19/88	X	X	X	X	X	X	X	
	AIRP003 C (PLASTIC MOUND)	S	7/19/88	X	X	X	X	X	X	X	
	AIRP003 E (SEALER SOIL)	S	7/19/88	X	X	X	X	X	X	X	
	AIRP003G (SEALER SOIL)	DL	7/19/88	X	X	X	X	X	X	X	

Matrix:
S - Soil
SE - Sediment
SO - Solid
W - Water
O - Oil
A - Air
DS - Drum Solids
DL - Drum Liquids
F - Fish
X - Other

Special Instructions:

Item/Reason	Relinquished by	Received by	Date	Time	Item/Reason	Relinquished by	Received by	Date	Time
SENT TO LAB	[signature]		7/19/88	14:33					

WESTON Analytics Use Only

Samples Were:
1 Shipped or Hand-Delivered
NOTES:

2 Ambient or Chilled
NOTES:

3 Received Broken/Leaking (Improperly Sealed)
Y N
NOTES:

4 Properly Preserved
Y N
NOTES:

5 Received Within Holding Times
Y N
NOTES:

COC Tape Was:
1 Present on Outer Package Y N
2 Unbroken on Outer Package Y N
3 Present on Sample Y N
4 Unbroken on Sample Y N
NOTES:

COC Record Was:
1 Present Upon Receipt of Samples Y N

Discrepancies Between Sample Labels and COC Record? Y N
NOTES:

UPS NEXT DAY AIR SHIPPER RECEIPT TRACKING NO. 1177 7662 120

LAFSER & SCHUMBER, INC.

Chain-of-Custody

Client: City of St. Louis

Date Received:

Project No: AIRP01

Received by:

Due Date: ASAP Report to: Glen Kurowski

Sample Location: Composite contaminated soils:
(1) soil containing drum heels
(2) drum remnants (actual containers)
(3) residual materials (where found) in drums

Item No.	Sample # (pm)	(pm) Sample ID	Matrix	Analysis Required	Sample Date	Comments	Preservative
1.	AIRP004B	~~Waste~~ hazardous waste solids, cont. soils	Solid	waste profile analyses	7/27/88	waste profile #0348	NA
2.							
3.							
4.							
5.							
6.							
7.							
8.							
9.							
10.							
11.							
12.							
13.							

Relinquished by Leon Martin Taylor 1730 HRS 7/27/88

Items	Date	Signature Received	Analysis	Relinquished by	Returned By	Date	Received By
(1)	7/27/88	J. Kleinhart	7/28/88	J. Kleinhart	J. Kleinhart	7/29/88	

Custody Transfer Record/Lab Work Request

WESTON

WESTON Analytics Use Only

Client: Industrial Waste Management
Work Order:
Date Rec'd.: 7/30/88 Date Due: 3-5 workdays
RFW Contact: Chris Heinz
Client Contact/Phone: Glen Kurowski/314 534 2266

Refrigerator#											
#/Type Container				BRGL	BRGL	BRGL					
Containers/Volume				1gt	1/2gal	1gt					
Preservative											
ANALYSES REQUESTED				BTU Flashpt EPtox	COPR. BNA's Aroclor PCB	BTU Flashpt EPtox					
WA Use Only Lab ID	Client ID/Description	Matrix	Date Collected								
(1)	AIRP005A	Liq	7/25/88	X							
(2)	AIRP005B	Liq	7/25/88		X						
(3)	AIRP006 (B) (Lm)	Liq	7/27/88			X					

Matrix:
S - Soil
SE - Sediment
SO - Solid
W - Water
O - Oil
A - Air
DS - Drum Solids
DL - Drum Liquids
F - Fish
X - Other

Special Instructions:

Item/Reason	Relinquished by	Received by	Date	Time	Item/Reason	Relinquished by	Received by	Date	Time
Items 1-3	Leon A Mutzfeld	—	7/29/88	1720					

WESTON Analytics Use Only

Samples Were:
1 Shipped or Hand-Delivered
NOTES:

2 Ambient or Chilled
NOTES:

3 Received Broken/Leaking (Improperly Sealed) Y N
NOTES:

4 Properly Preserved Y N
NOTES:

5 Received Within Holding Times Y N
NOTES:

COC Tape Was:
1 Present on Outer Package Y N
2 Unbroken on Outer Package Y N
3 Present on Sample Y N
4 Unbroken on Sample Y N
NOTES:

COC Record Was:
1 Present Upon Receipt of Samples Y N

Discrepancies Between Sample Labels and COC Record? Y N
NOTES:

RFW 21-21-001/A-5/88

7-115

NEXT DAY AIR SHIPPER RECEIPT TRACKING NO. 1177 7661 603

attn: Wayne Cooper

LAFSER & SCHREIBER, INC.

Page 1 of 1

Chain-of-Custody

Client: City of St. Louis

Date Received:

Project No: AIRP01

Received by:

Due Date: 7/28/88 Report to: Glen Kurowski

Sample Location:

Item No.	Sample #	Sample ID	Matrix	Analysis Required	Sample Date	Comments	Preservative
1.	AIRP006A		liquid	Ignitability BTU	7/27/88	Rush	
2.							
3.							
4.							
5.							
6.							
7.							
8.							
9.							
10.							
11.							
12.							
13.							

Relinquished by Jerald Motycka @ 1145 HRS

Items	Date	Signature Received	Analysis	Relinquished by	Returned By	Date	Received By
	7/28/88	Marcia Morrison					

Method of delivery: Courier

Custody Transfer Record/Lab Work Request

WESTON

WESTON Analytics Use Only

Client: Industrial Waste Management
Work Order:
Date Rec'd.: 8/2/88 Date Due: 3-5 WORK DAYS
RFW Contact: Chris Heinz
Client Contact/Phone: Glen Kurowski/314 534 2266

Refrigerator#											
#/Type Container			BR GL								
Containers/Volume			9T								
Preservative			4°C								
ANALYSES REQUESTED			Ep tox metals PCB DIOXIN								
WA Use Only Lab ID	Client ID/Description	Matrix	Date Collected								
(1)	AIRP007A	oil/water "O/W"	8-1-88	X							

Matrix:
S - Soil
SE - Sediment
SO - Solid
W - Water
O - Oil
A - Air
DS - Drum Solids
DL - Drum Liquids
F - Fish
X - Other

Special Instructions:

Item/Reason	Relinquished by	Received by	Date	Time	Item/Reason	Relinquished by	Received by	Date	Time
(1)	[illegible]	—	8/1/88	1720					

WESTON Analytics Use Only

Samples Were:
1 Shipped or Hand-Delivered
NOTES:

2 Ambient or Chilled
NOTES:

3 Received Broken/Leaking (Improperly Sealed) Y N
NOTES:

4 Properly Preserved Y N
NOTES:

5 Received Within Holding Times Y N
NOTES:

COC Tape Was:
1 Present on Outer Package Y N
2 Unbroken on Outer Package Y N
3 Present on Sample Y N
4 Unbroken on Sample Y N
NOTES:

COC Record Was:
1 Present Upon Receipt of Samples Y N

Discrepancies Between Sample Labels and COC Record? Y N
NOTES:

RFW 21-21-001/A-5/88

7-115

UPS NEXT DAY AIR SHIPPER RECEIPT TRACKING NO. 1182 4568 928

REMOVE BACKING HERE

Chain-of-Custody

Client: City of St. Louis

Date Received:

Project No: AIRP01

Received by:

Due Date: 3-5 days Report to: Glen Kurowski / Leon Matejka to Enviromentrics Labs

Sample Location:

Item No.	Sample #	Sample ID	Matrix	Analysis Required	Sample Date	Comments	Preservative
1.	AIRP007B		oil/water	Dioxin EP tox metals PCB, BTU	8/1/88	analyze oil layer	couriered in insulated package at 4°C
2.							
3.							
4.							
5.							
6.							
7.							
8.							
9.							
10.							
11.							
12.							
13.							

Relinquished to courier by Leon A. Matejka @ 1650 HRS LM

Items	Date	Signature Received	Analysis	Relinquished by	Returned By	Date	Received By
(1)	8/2/88						

WESTON ANALYTICS
7700 LORRAINE AVE. SUITE 102
STOCKTON CA 95210 209 957-3405

GC/MS SEMI-VOLATILE ORGANICS ANALYSIS

LAB REFERENCE NUMBER : 9807S075-03MS
CLIENT SAMPLE ID : AIRP003E-MS
REPORT DATE : 07-29-1998

CLIENT NAME : IWM
FILE ID : 98M3BN1348
BLANK ID : 98M3BN1340
SAMPLE TYPE : SOIL/SEDIMENT/SOLIDS

DATE SAMPLED : 07/19/98
DATE RECEIVED : 07/20/98
DATE EXTRACTED : 07/21/98
DATE ANALYSED : 07/29/98

360	U	n-nitroso-dimethylamine
4500		phenol
360	U	aniline
360	U	bis(2-chloroethyl) ether
3200		2-chlorophenol
360	U	1,3-dichlorobenzene
1200		1,4-dichlorobenzene
360	U	benzyl alcohol
360	U	1,2-dichlorobenzene
360	U	2-methylphenol
360	U	bis(2-chloroisopropyl) ether
360	U	4-methylphenol
2500		n-nitroso-di-n-propylamine
360	U	hexachloroethane
360	U	nitrobenzene
360	U	isophorone
360	U	2-nitrophenol
360	U	2,4-dimethylphenol
1700	U	benzoic acid
360	U	bis(2-chloroethoxy) methane
360	U	2,4-dichlorophenol
2700		1,2,4-trichlorobenzene
360	U	naphthalene
360	U	4-chloroaniline
360	U	hexachlorobutadiene
7300		4-chloro-3-methylphenol
69	J	2-methylnaphthalene
360	U	hexachlorocyclopentadiene
360	U	2,4,6-trichlorophenol
1700	U	2,4,5-trichlorophenol
360	U	2-chloronaphthalene
1700	U	2-nitroaniline
360	U	dimethyl phthalate
360	U	acenaphthylene
1700	U	3-nitroaniline
4600		acenaphthene
1700	U	2,4-dinitrophenol
1700	U	4-nitrophenol

360	U	dibenzofuran
4600		2,4-dinitrotoluene
87	J	2,6-dinitrotoluene
360	U	diethyl phthalate
360	U	4-chlorophenyl phenyl ether
360	U	fluorene
1700	U	4-nitroaniline
1700	U	4,6-dinitro-2-methylphenol
360	U	n-nitrosodiphenylamine
360	U	4-bromophenyl phenyl ether
360	U	hexachlorobenzene
4500		pentachlorophenol
140	J	phenanthrene
360	U	anthracene
4600		di-n-butyl phthalate
94	J	fluoranthene
1700	U	benzidine
4700		pyrene
360	U	butyl benzyl phthalate
720	U	3,3'-dichlorobenzidine
360	U	benzo(a)anthracene
190	J	bis(2-ethylhexyl)phthalate
360	U	chrysene
360	U	di-n-octyl phthalate
360	U	benzo(b)fluoranthene
360	U	benzo(k)fluoranthene
360	U	benzo(a)pyrene
360	U	indeno(1,2,3-cd)pyrene
360	U	dibenz(a,h)anthracene
360	U	benzo(g,h,i)perylene

SURROGATE % RECOVERY

53	2-fluorophenol (SS1)
73	phenol-d5 (SS2)
82	nitrobenzene-d5 (SS3)
104	2-fluorobiphenyl
100	2,4,6-tribromophenol (SS5)
101	p-terphenyl-d14 (SS6)

RESULT UNITS : ug/kg (micrograms per Kilogram)
Results reported on a dry weight basis.

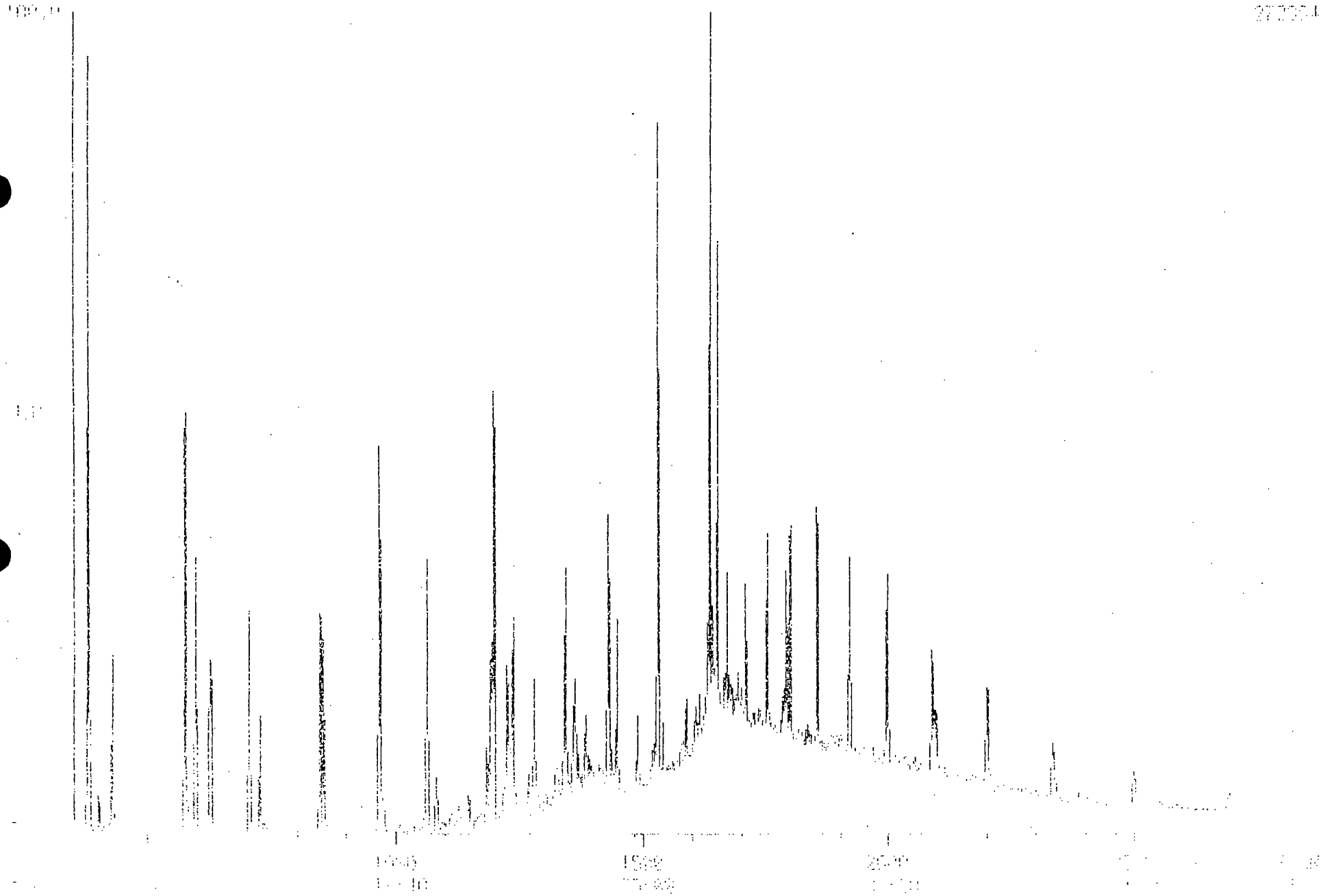
DILUTION FACTOR : 1
% MOISTURE : 9

U = indicates the compound was analysed for, but not detected.
The numerical value preceeding 'U' is the limit of detection for that compound, based on dilution.
J = indicates an estimated trace value.

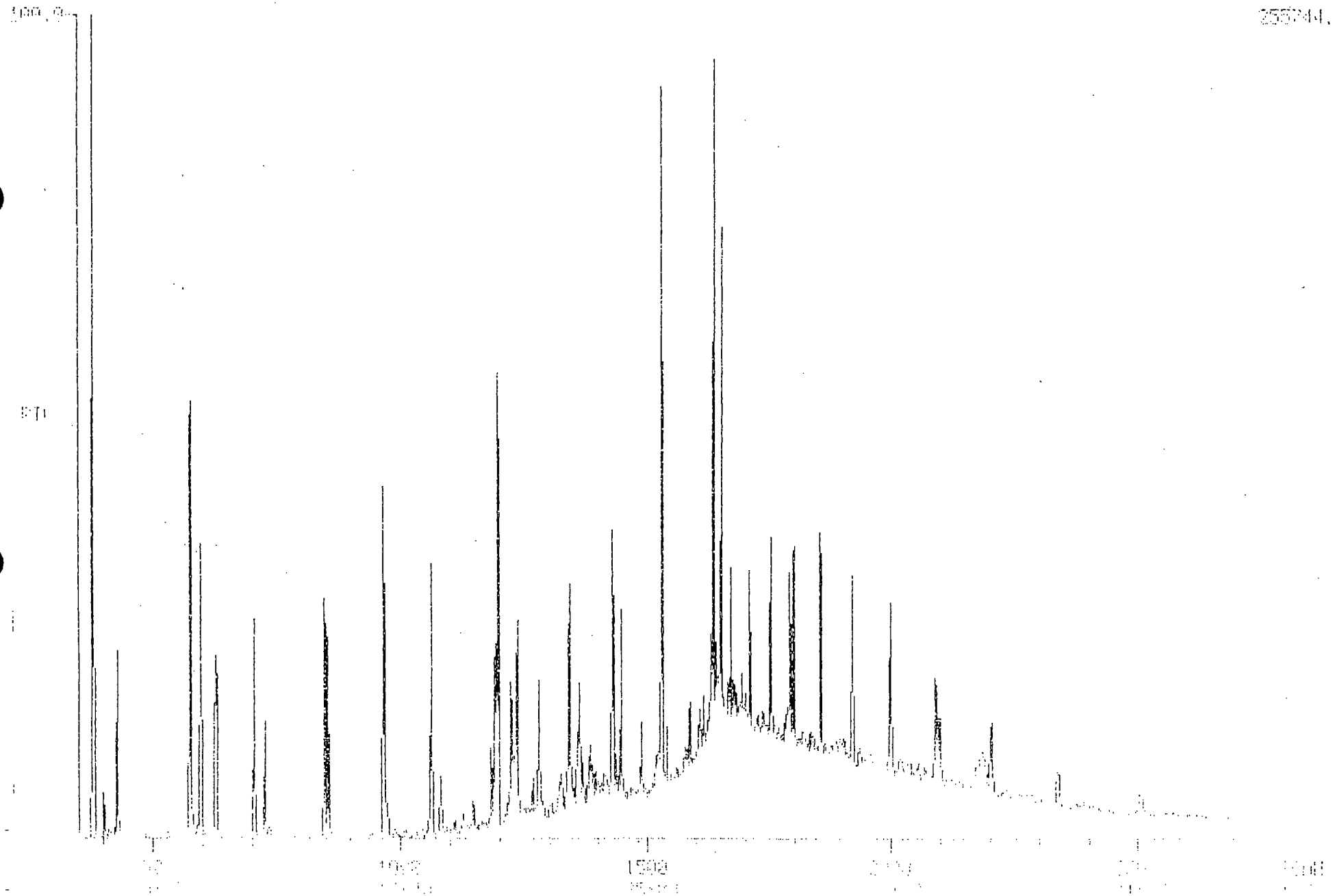
ANALYST : R.F. Carney

APPROVED BY :

RIC DATA: 88M3BN1348 #1 SCANS 350 TO 2700
07/29/88 14:50:00 CALI: 88M3BN1347 #5
SAMPLE: 88073075-03MS IWM AIRP0035-MS
CONDS.: DN. INST: 4500. 30G=>1ML
RANGE: G 1 2700 LABEL: H 9. 4.0 QUAN: A 0. 1.0 J 0 BASE: U 20. 3



RIC DATA: 88M3BN1349 #1 SCANS 350 TO 2700
07/29/88 15:53:00 CALI: 88M3BN1350 #5
SAMPLE: 88075075-03MSD IWM AIRP003E-MSD
CONDS.: BN INST: 4500, 30G=>1ML
RANGE: 0 1.2700 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3



WESTON ANALYTICS
7700 LORRAINE AVE. SUITE 102
STOCKTON CA 95210 209 957-3405

GC/MS SEMI-VOLATILE ORGANICS ANALYSIS

LAB REFERENCE NUMBER : 8807S075-03MSD
CLIENT SAMPLE ID : AIRP003E-MSD
REPORT DATE : 07-29-1988

CLIENT NAME : IWM
FILE ID : 3EM3BN1349
BLANK ID : 3EM3BN1340
SAMPLE TYPE : SOIL/SEDIMENT/SOLIDS

DATE SAMPLED : 07/13/88
DATE RECEIVED : 07/20/88
DATE EXTRACTED : 07/21/88
DATE ANALYSED : 07/29/88

360 U	n-nitroso-dimethylamine
4500	phenol
360 U	aniline
360 U	bis(2-chloroethyl) ether
3300	2-chlorophenol
360 U	1,3-dichlorobenzene
1300	1,4-dichlorobenzene
360 U	benzyl alcohol
360 U	1,2-dichlorobenzene
360 U	2-methylphenol
360 U	bis(2-chloroisopropyl) ether
360 U	4-methylphenol
2500	n-nitroso-di-n-propylamine
360 U	hexachloroethane
360 U	nitrobenzene
360 U	isophorone
360 U	2-nitrophenol
360 U	2,4-dimethylphenol
1700 U	benzoic acid
360 U	bis(2-chloroethoxy) methane
360 U	2,4-dichlorophenol
2300	1,2,4-trichlorobenzene
360 U	naphthalene
360 U	4-chloroaniline
360 U	hexachlorobutadiene
7200	4-chloro-3-methylphenol
69 J	2-methylnaphthalene
360 U	hexachlorocyclopentadiene
360 U	2,4,6-trichlorophenol
1700 U	2,4,5-trichlorophenol
360 U	2-chloronaphthalene
1700 U	2-nitroaniline
360 U	dimethyl phthalate
360 U	acenaphthylene
1700 U	3-nitroaniline
4600	acenaphthene
1700 U	2,4-dinitrophenol
1700 U	4-nitrophenol

360 U	dibenzofuran
4100	2,4-dinitrotoluene
360 U	2,6-dinitrotoluene
360 U	diethyl phthalate
360 U	4-chlorophenyl phenyl ether
360 U	fluorene
1700 U	4-nitroaniline
1700 U	4,6-dinitro-2-methylphenol
42 J	n-nitrosodiphenylamine
360 U	4-bromophenyl phenyl ether
360 U	hexachlorobenzene
4300	pentachlorophenol
150 J	phenanthrene
360 U	anthracene
4400	di-n-butyl phthalate
110 J	fluoranthene
1700 U	benzidine
4600	pyrene
360 U	butyl benzyl phthalate
720 U	3,3'-dichlorobenzidine
360 U	benzo(a)anthracene
140 J	bis(2-ethylhexyl)phthalate
54 J	chrysene
360 U	di-n-octyl phthalate
360 U	benzo(b)fluoranthene
360 U	benzo(k)fluoranthene
360 U	benzo(a)pyrene
360 U	indeno(1,2,3-cd)pyrene
360 U	dibenz(a,h)anthracene
360 U	benzo(g,h,i)perylene

SURROGATE % RECOVERY

57	2-fluorophenol (SS1)
73	phenol-d5 (SS2)
84	nitrobenzene-d5 (SS3)
102	2-fluorobiphenyl
36	2,4,6-tribromophenol (SS5)
93	p-terphenyl-d14 (SS6)

RESULT UNITS : ug/kg (micrograms per kilogram)
Results reported on a dry weight basis.

DILUTION FACTOR : 1
% MOISTURE : 3

U = indicates the compound was analysed for, but not detected.
The numerical value preceeding 'U' is the limit of detection for that compound, based on dilution.
J = indicates an estimated trace value.

ANALYST : R. F. Carney

APPROVED BY :

ASTON ANALYTICS
7700 LORRAINE AVE. SUITE 102
STOCKTON CA 95210 209 957-3405

GC/MS SEMI-VOLATILE ORGANICS ANALYSIS

LAB REFERENCE NUMBER : 9907S075-04
CLIENT SAMPLE ID : MFP003G
REPORT DATE : 08-03-1988

CLIENT NAME : CKM
FILE ID : 88M08N1050
BLANK ID : 88M08N1040
SAMPLE TYPE : SOIL,SEDIMENT SOLIDS

DATE SAMPLED : 07/19/88
DATE RECEIVED : 07/20/88
DATE EXTRACTED : 07/21/88
DATE ANALYSED : 07/29/88

9900	U	n-nitroso-dimethylamine
9900	U	phenol
9900	U	aniline
9900	U	bis(2-chloroethyl) ether
9900	U	2-chlorophenol
9900	U	1,3-dichlorobenzene
9900	U	1,4-dichlorobenzene
9900	U	benzyl alcohol
9900	U	1,2-dichlorobenzene
9900	U	2-methylphenol
9900	U	bis(2-chloroisopropyl) ether
9900	U	4-methylphenol
9900	U	n-nitroso-di-n-propylamine
9900	U	hexachloroethane
9900	U	nitrobenzene
9900	U	isophorone
9900	U	2-nitrophenol
9900	U	2,4-dimethylphenol
48000	U	benzoic acid
9900	U	bis(2-chloroethoxy) methane
9900	U	2,4-dichlorophenol
9900	U	1,2,4-trichlorobenzene
240000		naphthalene
9900	U	4-chloroaniline
9900	U	hexachlorobutadiene
9900	U	4-chloro-3-methylphenol
7900	J	2-methylnaphthalene
9900	U	hexachlorocyclopentadiene
9900	U	2,4,6-trichlorophenol
48000	U	2,4,5-trichlorophenol
9900	U	2-chloronaphthalene
48000	U	2-nitroaniline
9900	U	dimethyl phthalate
9900	U	acenaphthylene
48000	U	3-nitroaniline
9900	U	acenaphthene
48000	U	2,4-dinitrophenol
48000	U	4-nitrophenol
9900	U	dibenzofuran
9900	U	2,4-dinitrotoluene
9900	U	2,6-dinitrotoluene
9900	U	diethyl phthalate
9900	U	4-chlorophenyl phenyl ether
9900	U	fluorene
48000	U	4-nitroaniline
48000	U	4,6-dinitro-2-methylphenol
9900	U	n-nitrosodiphenylamine
9900	U	4-bromophenyl phenyl ether
9900	U	hexachlorobenzene
48000	U	pentachlorophenol
9900	U	phenanthrene
9900	U	anthracene
9900	U	di-n-butyl phthalate
9900	U	fluoranthene
48000	U	benzidine
9900	U	pyrene
9900	U	butyl benzyl phthalate
20000	U	3,3'-dichlorobenzidine
9900	U	benzo(a)anthracene
9900	U	bis(2-ethylhexyl)phthalate
9900	U	chrysene
9900	U	di-n-octyl phthalate
9900	U	benzo(b)fluoranthene
9900	U	benzo(k)fluoranthene
9900	U	benzo(a)pyrene
9900	U	indeno(1,2,3-cd)pyrene
9900	U	dibenz(a,h)anthracene
9900	U	benzo(g,h,i)perylene

SURROGATE % RECOVERY

97	2-fluorophenol (SS1)
93	phenol-d5 (SS2)
94	nitrobenzene-d5 (SS3)
95	2-fluorobiphenyl
96	2,4,6-tribromophenol (SS5)
93	p-terphenyl-d14 (SS6)

RESULT UNITS : ug/kg (micrograms per kilogram)
Results reported on a wet weight basis.

DILUTION FACTOR : 10

U = indicates the compound was analysed for, but not detected.
The numerical value preceeding 'U' is the limit of detection for that compound, based on dilution.
J = indicates an estimated trace value.

ANALYST : R. F. Cimey

APPROVED BY :

ORGANICS ANALYSIS DATA SHEET - PAGE 3

[illegible] ENVIRONMENTAL LABORATORY
[illegible] LORRAINE AVE., SUITE 105
[illegible]TON CA 95210 209-957-3405

DATAFILE: 88M3DN1330
SAMPLE: 88076075-04 IWM AIRPO
MISC: DN, INST 4500, 1.00G=1

3. TENTATIVELY IDENTIFIED COMPOUNDS

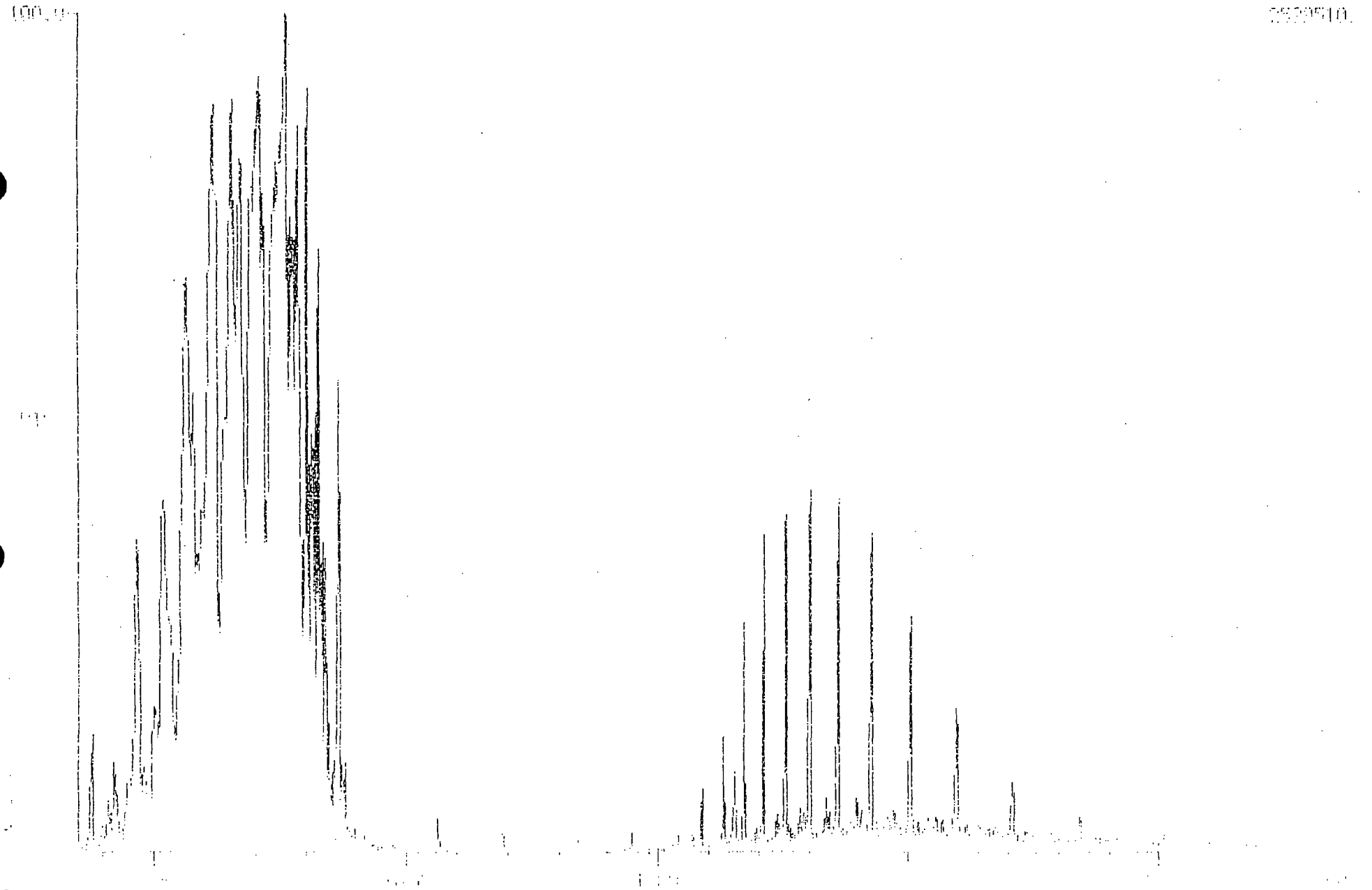
	SEMIVOLATILE COMPOUND NAMES	SCAN#	AMOUNT
			UG/L / UG/
_____	[illegible]OCTANE, 4-METHYL-	462	95 J
_____	UNKNOWN	519	125 J
_____	UNKNOWN	557	166 J
_____	UNKNOWN	574	140 J
_____	UNKNOWN	764	76 J
_____	UNKNOWN	906	50 J
_____	UNKNOWN	928	55 J
_____	PENTACOSANE	1605	481 J
_____	PENTACOSANE	1852	502 J

5 OUT OF 5 INTERNAL STANDARDS FOUND

J = ESTIMATED VALUE - A 1.1 RESPONSE FACTOR IS ASSUMED

RIC
07/29/88 16:57:00
SAMPLE: 88075075-04 IWM AIRP003G
CONDS.: BN, INST: 4500, 1.00G=>1ML
RANGE: G 1.2700 LABEL: N 0. 4.0 QUAN: P 0. 1.0 J 0 BASE: U 20. 3

DATA: 88M3BN1350 #1 SCANS 350 TO 2700
CALI: 88M3BN1350 #5



ROCKTON FACILITY PRODUCTION TRAVELLER (WESCA) REPORT GENERATION: 08/01/88 @ 13:08

WA PRODUCTION BATCH #: 88085001

CLIENT NAME: INDUST. WASTE MGMT.
CLIENT PROJ #/NAME:
CLIENT CASE #/NAME:

DATA PACKAGE: CLS
DATA PKG LEVEL: NA
DATA PROTOCOL: EPTOX / /

ANALYTICS PM: K.HINDS
WA WO #:
HAZARD LEVEL: HIGH

K.H. 3:45

RECEIVED: 08/01/88
LOGGED: 08/01/88

DATE INTERNAL REPORTS DUE: 08/04/88
DATE CLIENT REPORTS DUE: 08/08/88

DISTRIBUTION LOG: EX GC GM IN PM

CLIENT ID NUMBER/NAME	QA QC	SAMPLE DESCRIP	MATRIX	DATE COLLTD	TYPE CONT	STYL CONT	SIZE CONT	# OF CONT	PRES #ONE	PRES #TWO	SAMPLE LOCATION	SAMPLE DISTRIBUTION	SAMPLE METHOD(s) / (COMMENTS)
AIRP005A		VESSEL	LQ	07/25/88	GL	BOTTLE	2360 ML	1	NONE		WALKIN D5	EX//GC//GM//	625;//608;(SS>PCB)
AIRP005B		VESSEL	LQ	07/25/88	GL	BOTTLE	1000 ML	1	NONE		XFER-LION	// // //IN	METALS;(EPTOX RCRA 8)//IGNITABILITY;CORROSIVITY;REACTIVITY;BTU;
AIRP006B		VESSEL	LQ	07/27/88	GL	BOTTLE	1000 ML	1	NONE		XFER-LION	// // //IN	METALS;(EPTOX RCRA 8)//IGNITABILITY;CORROSIVITY;REACTIVITY;BTU;

X KEY CODE: SD=SOLID SL=SLUDGE SO=SOIL WT=WATER OL=OIL LQ=LIQUID WS=WASTE WATER DR=DRUM WASTE GS=GAS XX=MISC

SAMPLES ON PAGE: 2

WESTON ANALYTICS
INORGANICS DATA SUMMARY REPORT

CLIENT: I.W.M.
RFW # : 8808S001

DATE RECEIVED: 08/01/88
DATE REPORT: 08/10/88

LAB NO.:	001	002
FIELD NO.:	AIRP005B	AIRP006B
UNITS:	NA	NA
C/D FACTOR:	NA	NA
EPTOX: ARSENIC	0.5U	0.5U
BARIUM	10.U	10.U
CADMIUM	0.1U	0.1U
CHROMIUM	0.5U	0.5U
LEAD	0.5U	0.5U
MERCURY	0.020U	0.020U
SELENIUM	0.1U	0.1U
SILVER	0.5U	0.5U
BOMB CALORIMETRY:	<500 B.T.U./lb.	<1000 B.T.U./lb.
REACTIVE CYANIDE:	<0.02 MG/L	<0.02 MG/L
SULFIDES:	0.3 MG/L	0.1 MG/L
CORROSIVITY:	pH 7.2/NO	pH 6.9/NO
IGNITABILITY:	>200 F	>200 F

APPROVED BY: Roger A. Elliott DATE: 8-10-88
ROGER A. ELLIOTT
LABORATORY DIRECTOR
WESTON ANALYTICS

WESTON ANALYTICS
7720 LORRAINE AVE., SUITE 105
STOCKTON CA 95210 209 957-3405

GC/MS SEMI-VOLATILE ORGANICS ANALYSIS

LAB REFERENCE NUMBER : QA88256
CLIENT SAMPLE ID : 0
REPORT DATE : 09-08-1988

CLIENT NAME : FOR 8806S001
FILE ID : 88M3BN1387
BLANK ID : 88M3BN1387
SAMPLE TYPE : WATER

DATE SAMPLED : 0
DATE RECEIVED : 0
DATE EXTRACTED : 08/02/88
DATE ANALYSED : 08/05/88

10 U	n-nitroso-dimethylamine	10 U	dibenzofuran
10 U	phenol	10 U	2,4-dinitrotoluene
10 U	aniline	10 U	2,6-dinitrotoluene
10 U	bis(2-chloroethyl) ether	10 U	diethyl phthalate
10 U	2-chlorophenol	10 U	4-chlorophenyl phenyl ether
10 U	1,3-dichlorobenzene	10 U	fluorene
10 U	1,4-dichlorobenzene	50 U	4-nitroaniline
10 U	benzyl alcohol	50 U	4,6-dinitro-2-methylphenol
10 U	1,2-dichlorobenzene	10 U	n-nitrosodiphenylamine
10 U	2-methylphenol	10 U	4-bromophenyl phenyl ether
10 U	bis(2-chloroisopropyl) ether	10 U	hexachlorobenzene
10 U	4-methylphenol	50 U	pentachlorophenol
10 U	n-nitroso-di-n-propylamine	10 U	phenanthrene
10 U	hexachloroethane	10 U	anthracene
10 U	nitrobenzene	10 U	di-n-butyl phthalate
10 U	isophorone	10 U	fluoranthene
10 U	2-nitrophenol	50 U	benzidine
10 U	2,4-dimethylphenol	10 U	pyrene
50 U	benzoic acid	10 U	butyl benzyl phthalate
10 U	bis(2-chloroethoxy) methane	20 U	3,3'-dichlorobenzidine
10 U	2,4-dichlorophenol	10 U	benzo(a)anthracene
10 U	1,2,4-trichlorobenzene	10 U	bis(2-ethylhexyl)phthalate
10 U	naphthalene	10 U	chrysene
10 U	4-chloroaniline	10 U	di-n-octyl phthalate
10 U	hexachlorobutadiene	10 U	benzo(b)fluoranthene
10 U	4-chloro-3-methylphenol	10 U	benzo(k)fluoranthene
10 U	2-methylnaphthalene	10 U	benzo(a)pyrene
10 U	hexachlorocyclopentadiene	10 U	indeno(1,2,3-cd)pyrene
10 U	2,4,6-trichlorophenol	10 U	dibenz(a,h)anthracene
50 U	2,4,5-trichlorophenol	10 U	benzo(g,h,i)perylene
10 U	2-chloronaphthalene	SURROGATE % RECOVERY	
50 U	2-nitroaniline	67	2-fluorophenol (SS1)
10 U	dimethyl phthalate	46	phenol-d5 (SS2)
10 U	acenaphthylene	100	nitrobenzene-d5 (SS3)
50 U	3-nitroaniline	98	2-fluorobiphenyl
10 U	acenaphthene	109	2,4,6-tribromophenol (SS5)
50 U	2,4-dinitrophenol	107	p-terphenyl-d14 (SS6)
50 U	4-nitrophenol		

RESULT UNITS : ug/l (micrograms per litre)

DILUTION FACTOR : 2

U = indicates the compound was analysed for, but not detected.
The numerical value preceeding 'U' is the limit of detection for that compound, based on dilution.
J = indicates an estimated trace value.

ANALYST : G. F. Carney

APPROVED BY :

WESTON ANALYTICS
7720 LORRAINE AVE., SUITE 105
STOCKTON CA 95210 209 957-3405

GC/MS SEMI-VOLATILE ORGANICS ANALYSIS

LAB REFERENCE NUMBER : 8808S001-01
CLIENT SAMPLE ID : AIRP005A
REPORT DATE : 09-08-1988

CLIENT NAME : IWM
FILE ID : 88M3BN1398
BLANK ID : 88M3BN1397
SAMPLE TYPE : WATER

DATE SAMPLED : 07/25/88
DATE RECEIVED : 08/01/88
DATE EXTRACTED : 08/02/88
DATE ANALYSED : 08/06/88

10 U	N-nitroso-dimethylamine	10 U	dibenzofuran
10 U	phenol	10 U	2,4-dinitrotoluene
10 U	aniline	10 U	2,6-dinitrotoluene
10 U	bis(2-chloroethyl) ether	10 U	diethyl phthalate
10 U	2-chlorophenol	10 U	4-chlorophenyl phenyl ether
10 U	1,3-dichlorobenzene	10 U	fluorene
10 U	1,4-dichlorobenzene	50 U	4-nitroaniline
10 U	benzyl alcohol	50 U	4,6-dinitro-2-methylphenol
10 U	1,2-dichlorobenzene	9 J	n-nitrosodiphenylamine
10 U	2-methylphenol	10 U	4-bromophenyl phenyl ether
10 U	bis(2-chloroisopropyl) ether	10 U	hexachlorobenzene
10 U	4-methylphenol	50 U	pentachlorophenol
10 U	n-nitroso-di-n-propylamine	10 U	phenanthrene
10 U	hexachloroethane	10 U	anthracene
10 U	nitrobenzene	10 U	di-n-butyl phthalate
10 U	isophorone	10 U	fluoranthene
10 U	2-nitrophenol	50 U	benzidine
10 U	2,4-dimethylphenol	10 U	pyrene
50 U	benzoic acid	10 U	butyl benzyl phthalate
10 U	bis(2-chloroethoxy) methane	20 U	3,3'-dichlorobenzidine
10 U	2,4-dichlorophenol	10 U	benzo(a)anthracene
10 U	1,2,4-trichlorobenzene	10 U	bis(2-ethylhexyl)phthalate
100	naphthalene	10 U	chrysene
10 U	4-chloroaniline	10 U	di-n-octyl phthalate
10 U	hexachlorobutadiene	10 U	benzo(b)fluoranthene
10 U	4-chloro-3-methylphenol	10 U	benzo(k)fluoranthene
6 J	2-methylnaphthalene	10 U	benzo(a)pyrene
10 U	hexachlorocyclopentadiene	10 U	indeno(1,2,3-cd)pyrene
10 U	2,4,6-trichlorophenol	10 U	dibenz(a,h)anthracene
50 U	2,4,5-trichlorophenol	10 U	benzo(g,h,i)perylene
10 U	2-chloronaphthalene	SURROGATE % RECOVERY	
50 U	2-nitroaniline	64	2-fluorophenol (SS1)
10 U	dimethyl phthalate	54	phenol-d5 (SS2)
10 U	acenaphthylene	97	nitrobenzene-d5 (SS3)
50 U	3-nitroaniline	108	2-fluorobiphenyl
10 U	acenaphthene	110	2,4,6-tribromophenol (SS5)
50 U	2,4-dinitrophenol	121	o-terphenyl-d14 (SS6)
50 U	4-nitrophenol		

RESULT UNITS : ug/l (micrograms per litre)

DILUTION FACTOR : 2

U = indicates the compound was analysed for, but not detected.
The numerical value preceeding 'U' is the limit of detection for that compound, based on dilution.
J = indicates an estimated trace value.

ANALYST : R. F. Carney

APPROVED BY :

Laboratory Name WESTON

Case No 8808S001

Sample Number
A1RP005A

8808S001-01
88M3 BN1388

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	Unknown	BNA	587	170 J
2.	"	"	597	200 J
3.	"	"	634	170 J
4.	"	"	675	260 J
5.	"	"	1137	320 J
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30				

HESTON ENVIRONMENTAL LABORATORY
1720 LORRAINE AVE., SUITE 105
STOCKTON CA 95210 209-957-3405

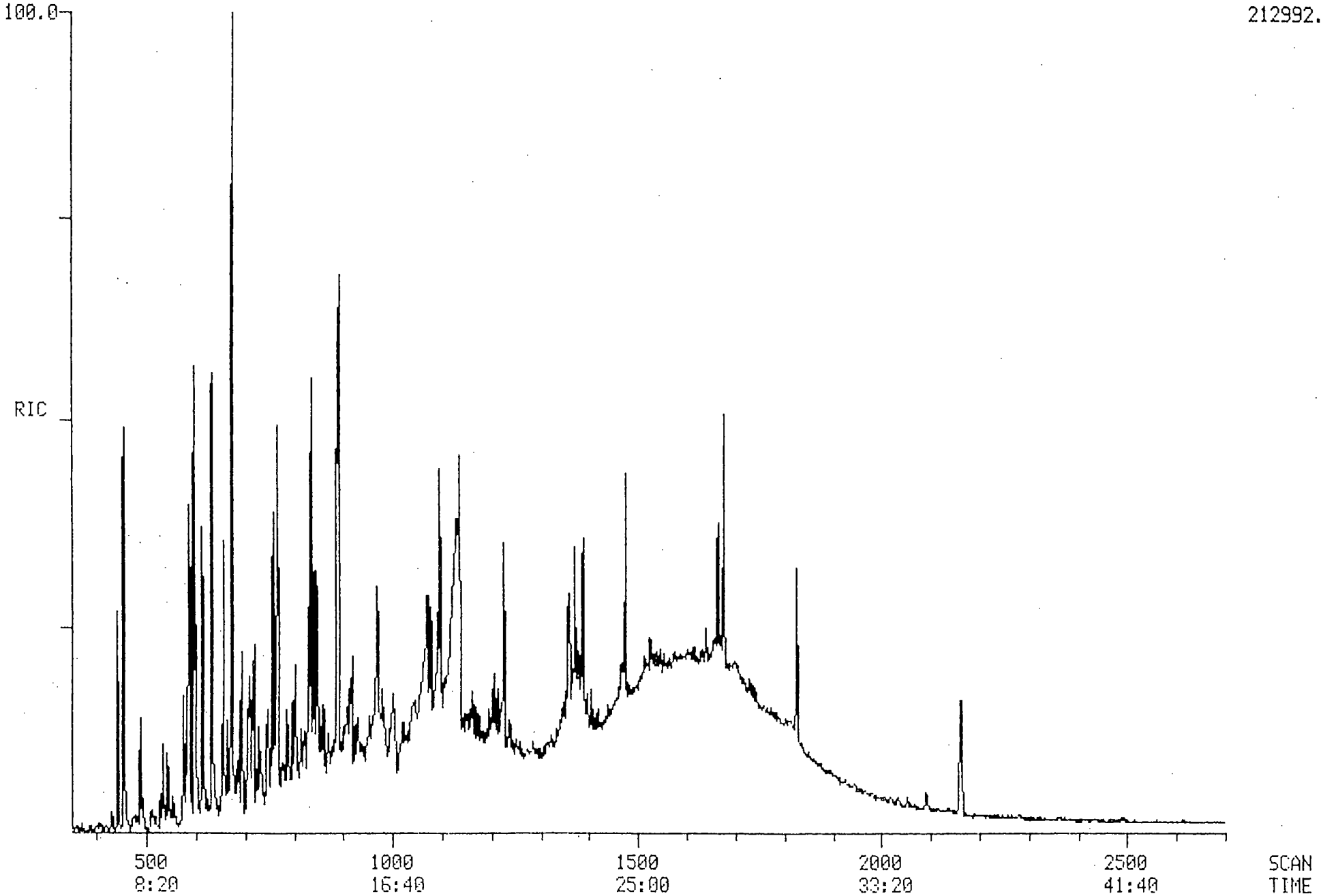
DATAFILE. 38M3BN1328
SAMPLE. 38088001-01 IWM AIRPO
MISC: 8N, INST: 4500, 900ML=1

3. TENTATIVELY IDENTIFIED COMPOUNDS

CAS #	SEMIVOLATILE COMPOUND NAMES	SCAN#	AMOUNT
			UG/L / UG/
_____	BENZENE, ETHYL-	443	~~31~~ J
_____	BENZENE, 1,3-DIMETHYL-	489	17 J
_____	BENZENE, PROPYL-	576	21 J
_____	BENZENE, 1-ETHYL-2-METHYL-	587	85 J
_____	BENZENE, 1,2,3-TRIMETHYL-	597	76 J
_____	BENZENE, 1-ETHYL-2-METHYL-	614	39 J
_____	UNKNOWN	634	85 J
_____	BENZENE, 1,2,3-TRIMETHYL-	675	132 J
_____	1H-INDENE, 2,3-DIHYDRO-	695	27 J
_____	UNKNOWN	720	42 J
_____	UNKNOWN	766	72 J
_____	UNKNOWN	803	24 J
_____	UNKNOWN	830	30 J
_____	1,8-NONANEDIOL, 8-METHYL-	835	61 J
_____	UNKNOWN	841	29 J
_____	UNKNOWN	846	48 J
_____	UNKNOWN	917	30 J
_____	UNKNOWN	969	68 J
_____	UNKNOWN	1069	59 J
_____	BENZOIC ACID, 2,4-DIMETHYL-	1077	19 J
_____	BENZOIC ACID, 3,4-DIMETHYL-	1137	163 J
_____	UNKNOWN	1356	35 J
_____	UNKNOWN	1371	~~38~~ J
_____	UNKNOWN	1387	32 J

RIC
08/06/88 0:36:00
SAMPLE: 88085001-01 IWM AIRP005A
CONDS.: BN, INST: 4500, 900ML=>2X1ML
RANGE: G 1,2750 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 88M3BN1388 #1 SCANS 350 TO 2700
CALI: 88M3BN1387 #5



Client: Indust. Waste Mgmt.

Sample ID: Blank QA88254

Sampled: NA
Received: NA

Matrix: WATER

RFW Job #: 8808s001

ORGANOCHLORINE PESTICIDES/PCB'S — EPA 608

Extracted: 08/01/88
Analyzed: 08/11/88
Confirmed: NO

Ext Fact: 100
Dil Fact: 1
Blank ID: NA

RFW Lab #: NA

Compound	Results (ppb) ug/L	Det Limit Sample ug/L
Aroclor 1016	U	0.50
Aroclor 1221	U	0.50
Aroclor 1232	U	0.50
Aroclor 1242	U	0.50
Aroclor 1248	U	0.50
Aroclor 1254	U	1.00
Aroclor 1260	U	1.00

U = Compound analyzed for but not detected

Approved: Roger A. Elliott

Declan Cowley
Organic Section Manager

Client: Indust. Waste Mgmt.

Sample ID: AIRP005A

Sampled: 08/01/88 Matrix: WATER

Received: 08/01/88 RFW Job #: 8808s001

ORGANOCHLORINE PESTICIDES/PCB'S EPA 608

Extracted: 08/01/88 Ext Fact: 100

Analyzed: 08/10/88 Dil Fact: 1

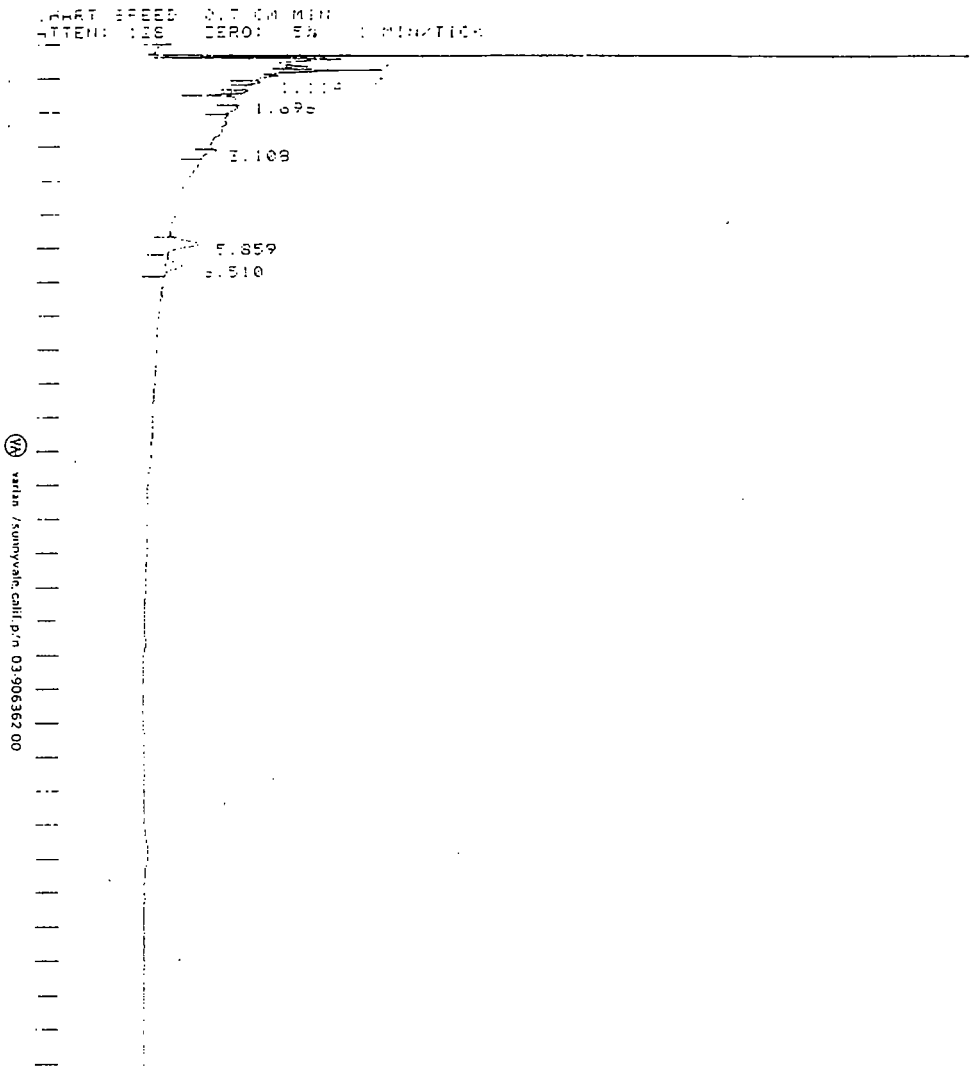
Confirmed: NO Blank ID: QA88254

RFW Lab #: 001

Compound	Results (ppb) ug/L	Det Limit Sample ug/L
Aroclor 1016.....	U	0.50
Aroclor 1221.....	U	0.50
Aroclor 1232.....	U	0.50
Aroclor 1242.....	U	0.50
Aroclor 1248.....	U	0.50
Aroclor 1254.....	U	1.00
Aroclor 1260.....	U	1.00

U = Compound analyzed for but not detected

Approved: Declan Cowley
Organic Section Manager



Varian /sunnyvale calif p/n 03-906362 00

TITLE: ORGANOCHLORINE PESTICIDES 20:13 3 AUG 88

CHANNEL NO: 1 SAMPLE: ---------- METHOD: 608 8808-8001-001

PEAK NO	PEAK NAME	RESULT UG/L	TIME (MIN)	TIME OFFSET	AREA COUNTS	SEP CODE		H1/2 (SEC)
1		0.0000	1.114		5987	BB		3.55
2		0.0000	1.368		20873	BV		3.85
3		0.0000	1.696		56901	VV	?	12.30
4	BHC-ALPHA	0.1532	1.867	0.067	25501	VB	?	3.50
5	BHC-DELTA	0.1173	3.108	0.098	13935	BB	?	5.10
6	CHLRDANE-A	0.7717	5.859	-0.221	70354	BV		12.70
7	ENDOSULF 1	0.3653	6.510	0.190	35674	VB		12.40
TOTALS:		1.4075		0.134	229225			

DETECTED PKS: 7 REJECTED PKS: 0

DIVISOR: 1.00000 MULTIPLIER: 1.00000 100

NOISE: 112.9 OFFSET: 459

RACK: 4 VIAL: 5 INJ: 1

SAVED FILE: 608/927

NOTES:
6 FT. 1.5% SP-2250/1.95% SP-2401. 100/120
TEMP-INJ:230. DET:300. COL:200
SCAN/EXIDCAD:OUT(-)/RANGE(1). H-INJ(2). S4=030
* COELUTE 1 * DDD-4,4' + ENDOSULFAN 2
* COELUTE 2 * ENDRIN KETONE + DBC

CORTON FACILITY PRODUCTION TRAVELLER (WESCA) REPORT GENERATION: 08/0: ? @ 11:54 HRS

WA PRODUCTION BATCH #: 8808S004

CLIENT NAME: INDUST. WASTE MGMT.
CLIENT PROJ #/NAME:
CLIENT CASE #/NAME:

DATA PACKAGE: CLS
DATA PKG LEVEL: HA
DATA PROTOCOL: EPTOX / /

ANALYTICS PH: K.HINDS
WA WO #: K.H.
HAZARD LEVEL: HIGH

RECEIVED: 08/02/88
LOGGED: 08/02/88

DATE INTERNAL REPORTS DUE: 08/05/88
DATE CLIENT REPORTS DUE: 08/09/88

DISTRIBUTION LOG: EX GC GM IN PM

608-1

CLIENT ID NUMBER/NAME	QA QC	SAMPLE DESCRIP	MATRIX	DATE COLLTD	TYPE CONT	STYL CONT	SIZE CONT	# OF CONT	PRES #ONE	PRES #TWO	SAMPLE LOCATION	SAMPLE DISTRIBUTION	SAMPLE METHOD(s) / (COMMENTS)
AIR007A		VESSEL	LQ	08/01/88	GL	BOTTLE	1000 ML	1	NONE		WALKIN D5	EX//GC// //IN	608;(SS>PCB) (ANALIZE OIL PHAZE ONLY)//METALS;(EPTOX RCRA 8)

MATRIX KEY CODE: S ID SL:SLUDGE SO:SOIL WT:WATER OL:OIL LQ:LIQUID WS:WASTE WATER :DRUM WASTE GS:GAS XX:MISC

WESTON ANALYTICS
INORGANICS DATA SUMMARY REPORT

CLIENT: I.W.M.
RFW # : 8808S004

DATE RECEIVED: 08/01/88
DATE REPORT: 08/10/88

LAB NO.: 001
FIELD NO.: AIR007A

UNITS: NA
C/D FACTOR: NA

EPTOX:	ARSENIC	0.5U
	BARIUM	10.U
	CADMIUM	0.1U
	CHROMIUM	0.5U
	LEAD	0.5U
	MERCURY	0.020U
	SELENIUM	0.1U
	SILVER	0.5U

APPROVED BY: Roger A. Elliott DATE: 8-10-88
ROGER A. ELLIOTT
LABORATORY DIRECTOR
WESTON ANALYTICS

Client: Indust. Waste Mgmt.

Sample ID: HEXANE BLANK

Sampled: NA
Received: NA

Matrix: WATER

RFW Job #: 8808s004

ORGANOCHLORINE PESTICIDES/PCB'S

EPA 608

Extracted: NA
Analyzed: 08/11/88
Confirmed: NO

Ext Fact: 1
Dil Fact: 1
Blank ID: NA

RFW Lab #: NA

Compound	Results (ppb) ug/L	Det Limit Sample ug/L
Aroclor 1016.....	U	50
Aroclor 1221.....	U	50
Aroclor 1232.....	U	50
Aroclor 1242.....	U	50
Aroclor 1248.....	U	50
Aroclor 1254.....	U	100
Aroclor 1260.....	U	100

U = Compound analyzed for but not detected

Approved: Roger A. Ettwalt

Declan Cowley
Organic Section Manager

Client: Indust. Waste Mgmt.

Sample ID: AIR007A

Sampled: 08/01/88 Matrix: WATER

Received: 08/02/88 RFW Job #: 8808s004

ORGANOCHLORINE PESTICIDES/PCB'S EPA 608

Extracted: NA Ext Fact: 1

Analyzed: 08/10/88 Dil Fact: 10

Confirmed: NO Blank ID: NA

RFW Lab #: 001

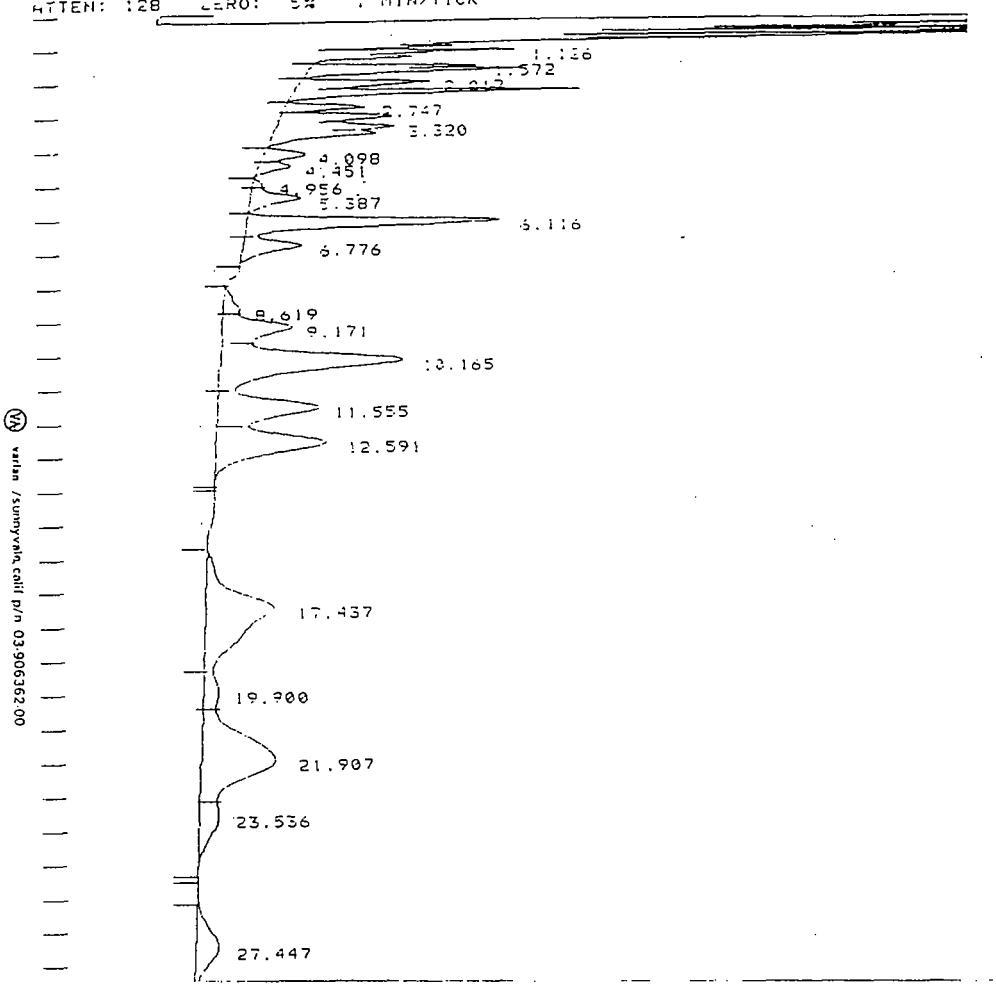
Compound	Results (ppb) ug/L	Det Limit Sample ug/L
Aroclor 1016.....	U	500
Aroclor 1221.....	U	500
Aroclor 1232.....	U	500
Aroclor 1242.....	U	500
Aroclor 1248.....	U	500
Aroclor 1254.....	U	1,000
Aroclor 1260.....	U	1,000

U = Compound analyzed for but not detected

Approved: Declan Cowley

Declan Cowley
Organic Section Manager

CHART SPEED 0.7 CM/MIN
ATTEN: 128 ZERO: 5% 1 MIN/TICK



TITLE: ORGANOCHLORINE PESTICIDES 21:32 10 AUG 88

CHANNEL NO: 1 SAMPLE: ---------- METHOD: 608 8808-5004-001

PEAK NO	PEAK NAME	RESULT UG/L	TIME (MIN)	TIME OFFSET	AREA COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	1.126		133247	BV		4.15
2		0.0000	1.287		35056	VV	?	8.20
3		0.0000	1.572		148283	VV	?	6.60
4	BHC-ALPHA	8.5357	1.678	0.028	222776	VV	?	6.55
5	BHC-GAMMA	8.4971	2.017	-0.103	209448	VV		10.20
6	BHC-BETA	39.1499	2.306	-0.134	331317	VV		6.10
7	BHC-DELTA	5.7459	2.747	-0.103	119202	VV		9.65
8		0.0000	3.016		206536	VV		13.00
9	ALDRIN	9.1868	3.320	0.150	212696	VV	?	14.40
10		0.0000	3.500		190094	VV	?	13.55
11		0.0000	4.098		98744	VV		14.25
12		0.0000	4.451		72993	VV		12.00
13	HEPT EPOX	0.8464	4.956	0.106	18346	VV	?	12.40
14	CHLRDANE-G	7.4364	5.387	-0.013	158293	VV		16.15
15	ENDOSULF 1	28.5324	5.116	-0.014	645914	VV		15.20
16		0.0000	6.776		195297	VB		17.85
17		0.0000	8.619		70539	BV	?	27.10
18	ENDRIN	17.0771	9.171	-0.039	340734	VV		29.45
19		0.0000	10.165		1013120	VV		30.40
20		0.0000	11.555		559918	VV		31.90
21		0.0000	12.591		664906	VB		34.30
22		0.0000	17.437		900674	BV		74.55
23		0.0000	19.900		130301	VV	?	47.60
24		0.0000	21.907		1026020	VV	?	77.30
25		0.0000	23.536		194791	VB	?	50.70
26		0.0000	27.447		315818	BB	?	67.80
TOTALS:		125.0050		-0.122	8265060			

DETECTED PKS: 26 REJECTED PKS: 0

DIVISOR: 1.00000 MULTIPLIER: ~~1.00000~~ 10

NOISE: 71.6 OFFSET: 2926

RACK: 1 VIAL: 15 INJ: 1

SAVED FILE: 608/965

NOTES:
6 FT. 1.5% SP-2250/1.95% SP-2401, 100/120
TEMP-INJ:230, DET:300, COL:200
GC4/ECD(A)/OUT(-)/RANGE(1)/A-INJ(2)/34#@30
* COELUTE 1 = DDD-4,4' + ENDOSULFAN 2
* COELUTE 2 = ENDRIN KETONE + DBC
WESTON ANALYTICS, STOCKTON, CA.

ND

varian /sunnyvale, calif p/n 03-906362.00
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ENVIRONMETRICS
10679 Midwest Industrial Blvd.
St. Louis, MO 63132
(314) 427-0550

INDUSTRIAL WASTE MANAGEMENT
5050 OAKLAND AVENUE
ST. LOUIS, MO 63110

ANALYSIS RESULTS

SAMPLE ID: AIRP006A

TEST PERFORMED	METHOD OF ANALYSIS	RESULTS
EP METALS ANALYSIS	SW-846 6010	TOTAL
ARSENIC		<0.4 ppm
BARIUM		0.8
CADMIUM		<0.5
CHROMIUM		<0.5
LEAD		<0.5
MERCURY		<0.1
SELENIUM		<0.2
SILVER		<0.5
IGNITABILITY (SETAFLASH)	SW-846 1020	---
CORROSIVITY (pH)	SW-846 9040	6.85 (NEAT)
CYANIDE	S.M. 412B, 412C	---
SULFIDES	S.M. 427C	---
PHENOLS	S.M. 510A, 510B	---

*S.M.=STANDARD METHODS, 15TH EDITION

AUGUST 4, 1988

WAYNE L. COOPER
LABORATORY DIRECTOR

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PROJECT #AIRPO1

ANALYSIS RESULTS

SAMPLE ID: #AIRP006A

TEST PERFORMED	METHOD OF ANALYSIS	RESULTS
EP EXTRACTION	SW-846 1310	
EP METALS ANALYSIS	SW-846 6010 - EXTRACTION	
ARSENIC		--- ppm
BARIUM		---
CADMIUM		---
CHROMIUM		---
LEAD		---
MERCURY		---
SELENIUM		---
SILVER		---
IGNITABILITY (SETAFLASH)	SW-846 1020	>200 (F)
CORROSIVITY (pH)	SW-846 9040	---
CYANIDE	S.M. 412B, 412C	--- mg/kg
SULFIDES	S.M. 427C	--- mg/kg
PHENOLS	S.M. 510A, 510B	---

*S.M.=STANDARD METHODS, 15TH EDITION

JULY 28, 1988

WAYNE L. COOPER
LABORATORY DIRECTOR

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PROJECT #AIRP01

ANALYSIS RESULTS

SAMPLE ID: AIRP07B - LAMBERT AIRPORT

TEST PERFORMED	METHOD OF ANALYSIS	RESULTS
EP METALS ANALYSIS	SW-846 6010	TOTAL
ARSENIC		<0.4 ppm
BARIUM		4.2
CADMIUM		<0.5
CHROMIUM		<0.5
LEAD		3.2
MERCURY		<0.1
SELENIUM		<0.2
SILVER		<0.5
IGNITABILITY (SETAFLASH)	SW-846 1020	--- (F)
CORROSIVITY (pH)	SW-846 9040	---
CYANIDE	S.M. 412B, 412C	--- mg/kg
SULFIDES	S.M. 427C	--- mg/kg
PHENOLS	S.M. 510A, 510B	---
PCB CONTAMINATION	ASTM 4059-86	<2 ppm

*S.M.=STANDARD METHODS, 15TH EDITION

AUGUST 10, 1988

WAYNE L. COOPER
LABORATORY DIRECTOR