



Department of Energy
Albuquerque Operations Office
Los Alamos Area Office
Los Alamos, New Mexico 87544
AUG 14 1996



CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Ms. Janice Archuleta
Hazardous and Radioactive Materials Bureau
New Mexico Environment Department
2044 Galisteo Street, Building A
P. O. Box 26110
Santa Fe, NM 87505

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Dear Ms. Archuleta:

Subject: Site Treatment Plan (STP), Los Alamos National Laboratory (LANL) -
Wastewater Treatment Sludge

The purpose of this letter is to present additional information requested by the New Mexico Environment Department (NMED) during our meeting on June 25, 1996, and by letter dated July 15, 1996, regarding our request for reclassification of 1,228 of the 1,288 drums of Technical Area (TA) 50-1 sludge. These sludges are currently being stored at LANL as Low-Level Mixed Waste (LLMW), pursuant to the New Mexico Hazardous Waste Regulations, and are currently included in the Federal Facility Compliance Order (FFCO)/STP under Section 3.3 in the Compliance Plan Volume (CPV, FFCO Exhibit A, Rev. 1.0, June 1996) in the treatability group "dewatered treatment sludge," MWIR waste ID LA-W928.

Our January 12, 1996 letter provided the results of our recent study and reevaluation of the available information concerning the TA-50-1 Radioactive Liquid Waste Treatment Plant (RLWTP) influent and sludges, and the processes by which they are generated. We sent a second letter dated April 1, 1996, in response to your February 9, 1996 request for additional information. In our June 25 meeting and in your July 15 letter, you indicated that, while overall you felt comfortable with the data and regulatory arguments we presented in our January 12, 1996, and April 1, 1996 letters, your remaining request is for "more data in relation to the organics that may have been processed through the Radioactive Liquid Waste Water Treatment Facility during and succeeding the time period when the sludges were accumulated." Additional information responsive to your request is provided in the appendices to this letter, as described below.



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Appendix A

LANL diligently searched its facility records and archives for all available analyses of volatile and semivolatile organic compounds in the TA-50-1 waste streams. Table A-1 in Appendix A lists the sample dates of all available analyses of organic compounds in influent and sludges during the period of generation of the 1,288 drums in question (all sludge analyses are reported in Table A-2, with the exception of five samples that did not pass an internal quality assurance review). Also shown are the sample dates of all available analyses of organic compounds in the TA-50-1 effluent. Note that, as shown in Appendix C (described below), sampling of organic compounds in the TA-50-1 effluent was not performed prior to August 1994, when sampling of total toxic organics commenced in accordance with revised National Pollutant Discharge Elimination System (NPDES) permit requirements. Table A-1, then, provides a quick overview of the dates for which organic analytical data (contained elsewhere in the appendices) is available.

Organic compounds detected in the TA-50-1 sludges

Table A-2 in Appendix A lists the results of total analyses of volatile and semivolatile organic compounds in the TA-50-1 sludges during and immediately after the period of generation of the 1,288 drums. The table reports total analyses in parts per million (ppm), not the leachable fraction as regulated in the toxicity characteristic. Leaching tests for organic compounds have not routinely been performed on the TA-50-1 sludges. This data had been archived, and has only recently been reviewed.

Table A-2 indicates, by constituent, all volatile and semivolatile organic compounds for which amounts were detected in the TA-50-1 sludges above established laboratory detection limits (i.e., "hits"). Only compounds having "hits" are listed in Table A-2; the entire suite of compounds LANL analyzed in each sample is much larger, and is listed in the example reports in Appendix D. Many volatile and semivolatile organic compounds have never been detected in any sludge samples.

The exemptions in 20 NMAC 4.1.201 at 40 CFR 261.3(a)(2)(iv)(A) and (B) refer to a specific list of toxic (T) organic compounds, listed here for convenience in Table A-3 of Appendix A. The compounds in these regulatory exemptions identified in sludge samples are indicated in Table A-2 of Appendix A in bold type. It should be noted that the exemptions provide for allowable concentrations in influent wastewaters (which are reported for LANL in Appendix B); the regulation does not address constituent concentrations in sludges (which are reported for LANL in Table A-2).

While acetone was detected in a number of samples, as reported for individual samples in Table A-2, acetone should not be a constituent of concern for application of the 20 NMAC 4.1.201 at 40 CFR 261.3(a)(2)(iv)(A) and (B) mixture rule exclusions. It did not cause TA-50-1 influent or sludge to exhibit the characteristic of ignitability (the basis for the F003 listing). Moreover, its presence does not impact the exclusion of the 1,228 sludge drums from NMAC 4.1.201 at 40 CFR 261.3(a)(2)(iii). Therefore, the presence of acetone in some

samples does not cause the sludge to be a characteristic waste or a mixture of a solid waste and a characteristic wastewater.

Another commonly occurring compound in Table A-2 is Bis (2-ethylhexyl) phthalate. It is frequently observed in situations where organic liquids come into contact or in association with plastics, as when liquids are contained in plastic containers or flow through plastic piping, and it is a plasticizer commonly found in plastic pipe joint cements. It is not regulated pursuant to the New Mexico Hazardous Waste Regulations.

Several compounds listed in Table A-3 were never detected in the sludges, and thus did not show up on Table A-2. These include cresol, cresylic acid, isobutanol, and "spent chlorofluorocarbon solvents." Cresol, if present (it was not), would have been reported in LANL's analyses as 2- methylphenol or 4- methylphenol. Cresol was not detected in the sludges. Likewise, cresylic acid, whose isomers, if present (they were not), would be reported as 2-methylphenol (o-cresol), 3-methylphenol (m-cresol), and 4-methylphenol (p-cresol). Cresylic acid was not detected in the sludges.

Isobutanol, even though included on the target list for SW 846 method 8260, is not normally analyzed for at LANL. Normally, it might be preferable to look for isobutanol using a different method such as SW 846 method 8015, which was not used to analyze TA-50-1 sludge samples. "Spent chlorofluorocarbon solvents," if present (they were not), would have been reported in LANL's analyses as dichlorodifluoromethane, trichlorofluoromethane, and trichloro-trifluoroethane. The 1,1,2- trichloro- 1,2,2- trifluoroethane reported in some samples was believed not to be a "spent chlorofluorocarbon solvent."

Appendix B

As reported in our January 12, 1996 letter, LANL undertook a detailed reexamination of TA 50-1 influent data from volatile organic analyses for the period of generation of the 1,288 drums of sludge (from June 1988 to November 1993). Data collected since 1988 on toxic organic constituents in RLWTP influent was summarized in Tables B-1 and B-2 of that letter, as reproduced here for completeness and for your convenience.

Table B-1 summarizes influent data in Tables B-4 through B-17, collected from December 1988 through May 1992. For each of the fourteen organic compounds that were detected in one or more samples during this period, individual sample values, and mean, minimum, and maximum values for each sample population are given in Tables B-4 through B-17. Values are reported in micrograms per liter.

Table B-2 shows the mean, minimum, and maximum values detected in the population of influent samples obtained from May 1992 through May 1994. Analytical results for this latter period are reported by individual sample in Table B-3 for the highest detectable concentration of each toxic organic compound detected during each sampling event. Values are reported in milligrams per liter.

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These two data sets, as reported in our January 12, 1996 letter, cover the period during which the 1,288 sludge drums were generated, and characterize the toxic organic constituent composition of the influent wastewaters whose treatment resulted in generation of the sludges. For the majority of sample events, volatile organic compounds were not detected at all. As stated above, the exemptions in 20 NMAC 4.1.201 at 40 CFR 261.3(a)(2)(iv)(A) and (B) refer to the levels of a specific list of toxic organic compounds (listed in Table A-3 of Appendix A) in influent wastewaters.

Appendix C

Appendix C presents available results of sampling for total toxic organics in TA-50-1 effluent. As stated above, sampling of organic compounds in the TA-50-1 effluent was not performed prior to August 1994, when sampling for total toxic organics commenced in accordance with revised National Pollutant Discharge Elimination System (NPDES) permit requirements. Therefore, this represents the available organics sampling data on TA-50-1 effluent as close in time as possible to the period of generation of the 1,288 drums of sludge.

Appendix D

This appendix provides examples of the analytical reports prepared for each sludge sample analyzed and reported in Table A-2. One example each is provided for volatile and semivolatile organic analyses, respectively. These also provide you with a complete listing of all chemical constituents which were routinely analyzed in all the samples, and their method detection limits. Appendix III to our April 1, 1996 letter provided the analytical methods and QA/QC procedures followed when the original samples were analyzed in LANL's laboratories.

Conclusion

We hope the preceding discussion supports your review of LANL's January 12, 1996 request. Since only trace amounts of organic compounds were present occasionally in the sludges, as demonstrated in Table A-2, we believe that 1,228 of the 1,288 drums of TA-50 treatment sludge should no longer be classified as LLMW.

It is our understanding that upon approval of this request by NMED, the referenced 1,228 drums of sludge would no longer be subject to the terms of the Hazardous Waste Regulations or the FFCO. The Department of Energy (DOE) and the University of California (UC) will then consider the referenced 1,228 55-gallon containers in the treatability group "*dewatered treatment sludge*," MWIR waste ID LA-W928, deleted from the STP and from LANL's LLMW inventory.

DOE and UC wish to proceed as expeditiously as possible with the relabeling and subsequent on-site disposal of the referenced 1,228 55-gallon containers as low-level

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radioactive waste. We will continue to manage the remaining 60 drums in this treatability group in accordance with the requirements of the STP under Section 3.3 in the CPV (FFCO Exhibit A, Rev. 1.0, June 1996).

LANL's records and documents related to this letter are available to NMED's staff upon request. A certification statement prepared in accordance with the requirements of Section XX, "Documents, Information, and Reporting Requirements," of the FFCO is enclosed. If there are any questions regarding the information presented in this letter, please feel free to contact me at (505) 665-5042.

Sincerely,


H.L. "Jody" Plum
STP Project Manager
Office of Environment and Projects

LAAMEP:9JP-036

Enclosure

cc w/o enclosure:
Benito Garcia, Bureau Chief
Hazardous and Radioactive Materials Bureau
New Mexico Environment Department
2044 Galisteo Street, Building A
P. O. Box 26110
Santa Fe, NM 87505

APPENDIX A

<i>Table</i>	A-1 Available Volatile and Semivolatile Organics Data for TA-50-1 Influent and Sludge
<i>Table</i>	A-2 Organic Compounds Detected in TA-50 Sludge
<i>Table</i>	A-3 Toxic Organic Compounds Listed in 20 NMAC 4.1.201 at 40 CFR 261.3(a)(2)(iv)(A) and (B)

TABLE A-1
SAMPLING DATES FOR TA-50-1 ORGANIC CONSTITUENT DATA

INFLUENT SAMPLE	SLUDGE SAMPLE	EFFLUENT SAMPLE
12/14/88		
12/15/88		
12/19/88		
12/22/88		
1/10/89		
1/19/89		
10/31/89	9/12/89	
11/2/89	9/28/89	
11/7/89	10/12/89	
11/9/89		
11/14/89		
11/16/89		
12/4/89		
12/5/89		
12/13/89	12/4/89	
12/19/89		
	1/17/90	
1/11/90		
1/17/90	1/31/90	
2/8/90	2/16/90	
2/25/90		
	3/19/90	
3/13/90		
3/15/90		
	4/11/90	
3/22/90		
	5/3/90	
6/26/90		
	5/13/90	
7/26/90	5/18/90	
9/13/90	6/21/90	
	8/1/90	
11/28/90		
	9/13/90	
2/8/91	9/18/90	
	9/27/90	
	10/12/90	
	10/22/90	
	10/23/90	
11/28/90	10/26/90	
	11/21/90	
12/4/90		
12/5/90	11/23/90	
	11/28/90	
1/18/91		
1/22/91		
	2/10/91	
2/8/91		
3/5/91	3/13/91	
	3/27/91	
3/13/91	4/1/91	
3/18/91		

TABLE A-1
SAMPLING DATES FOR TA-50-1 ORGANIC CONSTITUENT DATA

<u>INFLUENT SAMPLE</u>	<u>SLUDGE SAMPLE</u>	<u>EFFLUENT SAMPLE</u>
4/7/91	4/29/91 5/1/91	
4/25/91	6/18/91	
5/3/91		
5/7/91		
6/18/91		
7/16/91		
9/26/91	5/13/92 5/14/92	
2/3/92	5/21/92	
3/2/92	6/18/92	
5/1/92	7/7/92	
5/5/92		
5/6/92	8/11/92 8/12/92	
5/19/92	8/18/92	
6/22/92		
6/24/92		
7/28/92	10/28/92	
8/12/92		
8/17/92	12/10/92	
8/19/92	1/13/93	
8/24/92		
9/11/92		
10/6/92		
10/22/92		
10/28/92		
11/25/92		
12/1/92		
12/9/92		
12/10/92		
12/16/92		
1/15/93		
1/20/93		
2/5/93		
2/8/92		
2/17/93		
2/23/93		
2/25/93		
2/25/93		
2/25/93		
3/3/93		
3/22/93		

TABLE A-1
SAMPLING DATES FOR TA-50-1 ORGANIC CONSTITUENT DATA

<u>INFLUENT SAMPLE</u>	<u>SLUDGE SAMPLE</u>	<u>EFFLUENT SAMPLE</u>
4/8/93		
4/13/93		
4/15/93		
4/16/93		
4/19/93		
4/30/93		
5/10/93	9/16/93	
5/18/93		
6/14/93		
7/16/93		
7/19/93	11/12/93	
7/29/93		
8/2/93		
8/11/93		
8/23/93		
8/27/93		
9/14/93		
9/15/93		
9/28/93		
9/30/93		
11/1/93		
11/22/93		
11/30/93		
12/3/93		
12/6/93		
12/8/93		
12/15/93		
12/16/93		
1/4/94		
1/10/94		
1/21/94		
2/2/94		
2/3/94		
2/8/94		
2/9/94		
2/16/94		
2/24/94		
3/2/94		
3/7/94		
3/17/94		
3/23/94		
3/30/94		
4/4/94		
4/8/94	7/14/94	
4/21/94	7/21/94	
4/28/94	7/22/94	
4/29/94	8/18/94	
5/4/94	8/19/94	
5/11/94	8/23/94	
5/18/94		
5/19/94		
5/20/94		
5/26/94		

TABLE A-2
ORGANIC COMPOUNDS DETECTED IN TA-50 SLUDGE
TOTAL ANALYSIS OF VOC/SVOC (ppm)

Sample Collection Date	7/31/89	9/12/89	10/12/89	10/12/89	12/4/89	1/17/90	2/16/90	3/19/90	4/11/90	5/3/90	8/1/90	10/24/90	10/24/90	2/10/91	11/28/90
Sample ID #	89.14083	89.15822	89.16805	89.16806	89.18200	90.10558	90.11172	90.12223	90.12906	90.13993	90.16306	90.18887	90.18888	91.01236	90.19529
VOC															
1,1,1-Trichloroethane *			***	***			***					***	***	***	
1,1,2-Trichloro-1,2,2-trifluoroethane			***	***			***					***	***	***	
1,1-Dichloroethane			***	***			***				0.045	***	***	***	
1,2,3-Trichlorobenzene			***	***		0.015	***					***	***	***	
1,2,4-Trichlorobenzene			***	***		0.033	***						***	***	
1,2,4-Trimethylbenzene			***	***		0.079	***					***	***	***	
4-Isopropyloluene			***	***			***					***	***	***	
4-Methyl-2-pentanone			***	***			***					***	***	***	
2-Butanone (Methyl ethyl ketone)			***	***			***					***	***	***	
2-Hexanone			***	***			***					***	***	***	
Acetone			***	***		0.440	***				0.140	***	***	***	
Benzene			***	***			***				0.045	***	***	***	
Carbon disulfide			***	***			***					***	***	***	
Chlorobenzene			***	***			***				0.045	***	***	***	
Ethylbenzene			***	***			***					***	***	***	
Methylene chloride			***	***	3.500	0.230	***				0.170	***	***	***	
Mixed-xylenes			***	***		0.192	***					***	***	***	
o-Chlorotoluene			***	***			***					***	***	***	
o-xylene			***	***		0.014	***					***	***	***	
p-Dichlorobenzene			***	***			***					***	***	***	
Toluene			***	***			***				0.045	***	***	***	
Trichlorethene			***	***			***				0.045	***	***	***	
SVOC			***	***			***					***	***	***	
Benzo[a]anthracene													3.000		
Benzo[a]pyrene													1.900		
Benzo[b]Fluoranthene													3.200		
Benzo[g,h,i]perylene															
Benzoic Acid															
Bis(2-ethylhexyl)phthalate			26.00	23.00	88.00	31.00	38.00	9.300	7.300	8.400	6.200	44.900	1.900	9.700	4.400
Butylbenzyl phthalate							0.620								
Chrysene													2.900		
Di-n-butyl phthalate															
Di-n-octyl phthalate							1.200	0.380			0.430				
Fluoranthene													4.400		
Indeno[1,2,3-cd]pyrene															
Isophorone															
m-Benzidine															
Nitrobenzene-dS									0.073						
o-chlorophenol															
Phenanthrene															
Phenol															
Pyrene											0.045		3.200		

* Target compounds in 20 NMAC 4.1.201, 40 CFR 261.3(a)(2)(iv)(A) or (B) are listed in bold.

** This analysis not performed on this sample.

*** This data did not pass QA review.

TABLE A-2
ORGANIC COMPOUNDS DETECTED IN TA-50 SLUDGE
TOTAL ANALYSIS OF VOC/SVOC (ppm)

Sample Collection Date	3/13/91	3/27/91	4/1/91	4/29/91	6/18/91	6/18/92	7/7/92	10/28/92	12/10/92	1/13/93	9/16/93	8/18/94
Sample ID #	91.01895	91.02592	91.02845	91.03670	91.05578	92.08611	92.09541	92.31397	92.33640	93.00521	93.19189	94.19854
VOC												
1,1,1-Trichloroethane *	**						***					***
1,1,2-Trichloro-1,2,2-trifluoroethane	**						***	0.007				***
1,1-Dichloroethane	**						***					***
1,2,3-Trichlorobenzene	**						***					***
1,2,4-Trichlorobenzene	**						***					***
1,2,4-Trimethylbenzene	**						***				0.037	***
4-Isopropyloluene	**						***					***
4-Methyl-2-pentanone	**					0.068	***					***
2-Butanone (Methyl ethyl ketone)	**						***				0.032	***
2-Hexanone	**					0.051	***					***
Acetone	**					0.039	***	0.046	0.022		0.050	***
Benzene	**						***					***
Carbon disulfide	**						***					***
Chlorobenzene	**						***					***
Ethylbenzene	**						***					***
Methylene chloride	**					0.090	***					***
Mixed-xylenes	**						***				0.006	***
o-Chlorotoluene	**					0.160	***					***
o-xylene	**						***					***
p-Dichlorobenzene	**					0.082	***					***
Toluene	**						***					***
Trichlorethene	**						***					***
SVOC	**						***					***
Benzo[a]anthracene		2.500	**									
Benzo[a]pyrene		1.500	**									
Benzo[b]Fluoranthene		3.200	**									
Benzo[g,h,i]perylene		1.200	**									
Benzoic Acid	0.410	3.100	**			0.620						14.30
Bis(2-ethylhexyl)phthalate	5.500	5.000	**	3.300	2.900	4.200	4.800	1.900	4.000	9.400	2.200	5.200
Butylbenzyl phthalate			**									
Chrysene		1.700	**									
Di-n-butyl phthalate	0.500		**									0.770
Di-n-octyl phthalate	0.410		**	0.400		0.460	0.440		0.480	0.710		
Fluoranthene		3.300	**									
Indeno[1,2,3-cd]pyrene		1.200	**									
Isophorone			**									
m-Benzidine			**									
Nitrobenzene-dS			**									
o-chlorophenol			**									
			**									
Phenanthrene		2.500	**									
Phenol		0.890	**									
Pyrene		2.400	**									

* Target compounds in 20 NMAC 4.1.201, 40 CFR 261.3(a)(2)(iv)(A) or (B) are listed in bold.

** This analysis not performed on this sample.

*** This data did not pass QA review.

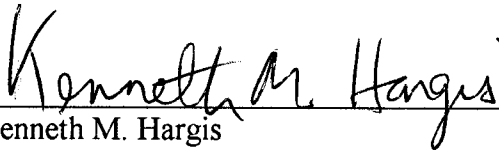
TABLE A-3
TOXIC ORGANIC COMPOUNDS LISTED IN
20 NMAC 4.1.201 at 40 CFR 261.3(a)(2)(iv)(A) and (B)

The following compounds specified in 20 NMAC 4.1.201 at 40 CFR 261.3(a)(2)(iv)(A) and (B) are analyzed by LANL's chemistry laboratories (see list of analytes in Appendix D) under the following synonyms:

<u>Constituent Regulated</u>	<u>Synonym(s) Used in LANL's Analytical Chemistry Reports</u>
carbon tetrachloride	same
tetrachloroethylene	same
trichloroethylene	trichloroethene
methylene chloride	same
1,1,1-trichloroethane	same
chlorobenzene	same
o-dichlorobenzene	same
cresols	2- methylphenol (o-cresol), 4-methylphenol (p-cresol)
cresylic acid	2- methylphenol, 3-methylphenol, 4-methylphenol
nitrobenzene	same
toluene	same
methyl ethyl ketone	2-butanone
carbon disulfide	same
isobutanol	NOT ANALYZED
pyridine	azobenzene
spent chlorofluorocarbon solvents	trichlorofluoromethane trichlorotrifluoroethane dichlorodifluoromethane

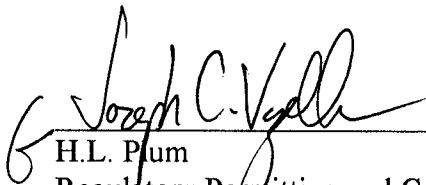
CERTIFICATION

I certify that I am the project manager responsible for overseeing the implementation of the Site Treatment Plan for the Los Alamos National Laboratory. To the best of my knowledge and belief, the information in this document is true, accurate, and complete.



Kenneth M. Hargis
Manager of Operations
Waste Management Program
Environmental Management Programs
Los Alamos National Laboratory
Operator

7/26/96
Date Signed



H.L. Plum
Regulatory Permitting and Compliance Manager
Los Alamos Area Office
U.S. Department of Energy
Albuquerque Operations
Owner/Operator

7/29/96
Date Signed

APPENDIX B

Summaries of Analytical Results, Target Organic Compounds Detected in TA 50-1 Influent (Tables B-1 through B-17)

Table B-1
Summary of VOC and SVOC Sampling Results
RLWTP Influent Samples Collected By Manning Autosampler
December 1988 Through May 1992

COMPOUND a/	F-list	REG. LIMIT b/ (ppm)	NON- DETECTS	DETECTIONS	DETECTIONS AT OR ABOVE REG. LIMIT b/
tetrachloroethene	F001	1	27	6	0
trichloroethene	F001	1	28	5	0
methylene chloride	F001	25	12	21	0
1,1,1-trichloroethane	F001	25	18	15	0
carbon tetrachloride	F001	1	28	5	0
trichlorotrifluoroethane	F002	25	32	1	0
chlorobenzene	F002	25	29	4	0
o-dichlorobenzene	F002	25	32	1	0
trichlorofluoromethane	F002	25	27	6	0
1,1,2-trichloroethane	F002	see note b/	31	2	0
toluene	F005	25	23	10	0
2-butanone	F005	25	24	9	0
carbon disulfide	F005	25	24	9	0
benzene	F005	see note b/	27	6	0

a/ Compounds are those found on RCRA F-lists and detected in the RLWTF influent.

b/ Regulatory limits are defined in 40 CFR 261.3(a)(2)(iv)(A) and 40 CFR 261.3(a)(2)(iv)(B).
1,1,2-trichloroethane and benzene are regulated under 40 CFR 261.31 and must be less than 10% by volume of solvent mixtures used in degreasing, before use.

Table B-2 - Summary of Analytical Results, Target Organic Compounds Detected in TA-50 Influent

Column	Compound Name	EPA Number	Regulatory Level (mg/L)	Total Population		
				Mean	Minimum	Maximum
A	Acetone	R003	Ign.	0.1825	0.0000	16.6000
B	Benzene	R005	0.50	0.0001	0.0000	0.0280
C	Carbon Disulfide	R005	1.00	0.0045	0.0000	0.3900
D	Carbon Tetrachloride	R001	0.50	0.0000	0.0000	0.0000
E	Chlorobenzene	D021	100.00	0.0002	0.0000	0.0210
F	Chloroform	D022	6.00	0.0018	0.0000	0.0880
G	1,4-Dichlorobenzene	D027	7.50	0.0001	0.0000	0.0510
H	1,2-Dichloroethane	D028	0.50	0.0632	0.0000	0.1460
I	1,1-Dichloroethylene	D029	0.70	0.0001	0.0000	0.0400
J	2,4-Dinitrotoluene	D030	0.13	0.0003	0.0000	0.0960
K	Hexachlorobenzene	D032	0.13	0.0000	0.0000	0.0000
L	Hexachlorobutadiene	D033	0.50	0.0000	0.0000	0.0000
M	Hexachloroethane	D034	3.00	0.0000	0.0000	0.0000
N	Methylene Chloride	R002	25.00	0.0142	0.0000	1.9000
O	Methyl Ethyl Ketone	R005	25.00	0.0019	0.0000	0.3400
P	Nitrobenzene	R004	2.00	0.0447	0.0000	0.1810
Q	Pentachlorophenol	D037	100.00	0.0001	0.0000	0.0670
R	Pyridine	R005	5.00	0.0000	0.0000	0.0210
S	Tetrachloroethane	-	-	0.0001	0.0000	0.0500
T	Tetrachloroethylene	R002	0.50	0.0000	0.0000	0.0000
U	Toluene	R005	25.00	0.0603	0.0000	0.1100
V	Trichlorotrifluoroethane	R001	25.00	0.0000	0.0000	0.0000
W	1,1,1-Trichloroethane	R002	25.00	0.0005	0.0000	0.0950
X	Trichloroethylene	R002	0.50	0.0005	0.0000	0.0950
Y	2,4,6-Trichlorophenol	D041	2.00	0.0000	0.0000	0.0000
Z	Vinyl Chloride	D043	0.20	0.0000	0.0000	0.0000

Table B-3 - Maximum Concentration of Target Organic Compounds in TA-50 Influent

[illegible]

Table B-3 - Maximum Concentration of Target Organic Compounds in TA-50 Influent

[illegible]

Table B-3 - Maximum Concentration of Target Organic Compounds in TA-50 Influent

[illegible]

Table B-3 - Maximum Concentration of Target Organic Compounds in TA-50 Influent

[illegible]

Table B-3 - Maximum Concentration of Target Organic Compounds in TA-50 Influent

Sample Number	Source of Sample	Sample Date	Target Organic Compounds												
			N	O	P	Q	R	S	T	U	V	W	X	Y	Z
92.353180	LIQUID	2/5/93	0.0080	0.0000	0.1810	0.0000	0.0000	0.0000	0.0000	0.1000	0.0000	0.0000	0.0000	0.0000	0.0000
92.353190	LIQUID	2/5/93	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
93.000620	LIQUID	2/5/93	0.0000	0.0000	0.0540	0.0000	0.0000	0.0000	0.0000	0.1010	0.0000	0.0000	0.0000	0.0000	0.0000
93.000630	LIQUID	2/5/93	0.0000	0.0000	0.0240	0.0000	0.0000	0.0000	0.0000	0.1020	0.0000	0.0000	0.0000	0.0000	0.0000
93.000640	LIQUID	2/5/93	0.0000	0.0000	0.0490	0.0000	0.0000	0.0000	0.0000	0.1030	0.0000	0.0000	0.0000	0.0000	0.0000
93.000650	LIQUID	2/5/93	0.0400	0.0000	0.0350	0.0000	0.0000	0.0000	0.0000	0.1020	0.0000	0.0000	0.0000	0.0000	0.0000
93.000660	LIQUID	2/5/93	0.0100	0.0000	0.0420	0.0000	0.0000	0.0000	0.0000	0.1040	0.0000	0.0000	0.0000	0.0000	0.0000
93.000670	LIQUID	2/5/93	0.0060	0.0000	0.0570	0.0000	0.0000	0.0000	0.0000	0.1000	0.0000	0.0000	0.0000	0.0000	0.0000
93.000680	LIQUID	2/5/93	0.0000	0.0000	0.0520	0.0000	0.0000	0.0000	0.0000	0.1030	0.0000	0.0000	0.0000	0.0000	0.0000
93.000690	LIQUID	2/5/93	0.0000	0.0000	0.0430	0.0000	0.0000	0.0000	0.0000	0.1020	0.0000	0.0000	0.0000	0.0000	0.0000
93.000890	LIQUID	2/5/93	0.0590	0.0000	0.0480	0.0000	0.0000	0.0000	0.0000	0.1010	0.0000	0.0000	0.0000	0.0000	0.0000
93.004530	LIQUID	2/8/93	0.0000	0.0000	0.0810	0.0000	0.0000	0.0000	0.0000	0.0980	0.0000	0.0000	0.0000	0.0000	0.0000
93.004540	LIQUID	2/8/93	0.0000	0.0000	0.0750	0.0000	0.0000	0.0000	0.0000	0.1000	0.0000	0.0000	0.0000	0.0000	0.0000
93.004550	LIQUID	2/8/93	0.0000	0.0000	0.0910	0.0000	0.0000	0.0000	0.0000	0.0990	0.0000	0.0000	0.0000	0.0000	0.0000
93.004560	LIQUID	2/8/93	0.0000	0.0000	0.0800	0.0000	0.0000	0.0000	0.0000	0.1010	0.0000	0.0000	0.0000	0.0000	0.0000
93.004570	LIQUID	2/8/93	0.0000	0.0000	0.0760	0.0000	0.0000	0.0000	0.0000	0.1020	0.0000	0.0000	0.0000	0.0000	0.0000
93.004580	LIQUID	2/8/93	0.0000	0.0000	0.0700	0.0000	0.0000	0.0000	0.0000	0.1020	0.0000	0.0000	0.0000	0.0000	0.0000
93.004590	LIQUID	2/8/93	0.0000	0.0000	0.0560	0.0000	0.0000	0.0000	0.0000	0.1010	0.0000	0.0000	0.0000	0.0000	0.0000
93.004600	LIQUID	2/8/93	0.0000	0.0000	0.0580	0.0000	0.0000	0.0000	0.0000	0.1000	0.0000	0.0000	0.0000	0.0000	0.0000
93.004610	LIQUID	2/8/93	0.0000	0.0000	0.0780	0.0000	0.0000	0.0000	0.0000	0.1020	0.0000	0.0000	0.0000	0.0000	0.0000
93.004620	LIQUID	2/8/93	0.0000	0.0000	0.0710	0.0000	0.0000	0.0000	0.0000	0.1000	0.0000	0.0000	0.0000	0.0000	0.0000
93.007220	LIQUID	2/17/93	0.0000	0.0000	0.0700	0.0000	0.0000	0.0000	0.0000	0.0950	0.0000	0.0000	0.0000	0.0000	0.0000
93.007230	LIQUID	2/17/93	0.0000	0.0000	0.0600	0.0000	0.0000	0.0000	0.0000	0.0910	0.0000	0.0000	0.0000	0.0000	0.0000
93.007240	LIQUID	2/17/93	0.0000	0.0000	0.0830	0.0000	0.0000	0.0000	0.0000	0.0920	0.0000	0.0000	0.0000	0.0000	0.0000
93.007250	LIQUID	2/17/93	0.0000	0.0000	0.0800	0.0000	0.0000	0.0000	0.0000	0.0960	0.0000	0.0000	0.0000	0.0000	0.0000
93.007260	LIQUID	2/17/93	0.0000	0.0000	0.0740	0.0000	0.0000	0.0000	0.0000	0.0930	0.0000	0.0000	0.0000	0.0000	0.0000
93.007270	LIQUID	2/17/93	0.0000	0.0000	0.0690	0.0000	0.0000	0.0000	0.0000	0.0940	0.0000	0.0000	0.0000	0.0000	0.0000
93.007280	LIQUID	2/17/93	0.0000	0.0000	0.0970	0.0000	0.0000	0.0000	0.0000	0.0900	0.0000	0.0000	0.0000	0.0000	0.0000
93.007290	LIQUID	2/17/93	0.0000	0.0000	0.0800	0.0000	0.0000	0.0000	0.0000	0.0950	0.0000	0.0000	0.0000	0.0000	0.0000
93.008990	LIQUID	2/23/93	0.0000	0.0000	0.0660	0.0000	0.0000	0.0000	0.0000	0.0960	0.0000	0.0000	0.0000	0.0000	0.0000
93.009000	LIQUID	2/23/93	0.0000	0.0000	0.0740	0.0000	0.0000	0.0000	0.0000	0.0970	0.0000	0.0000	0.0000	0.0000	0.0000
93.009010	LIQUID	2/23/93	0.0000	0.0000	0.0710	0.0000	0.0000	0.0000	0.0000	0.0950	0.0000	0.0000	0.0000	0.0000	0.0000
93.009020	LIQUID	2/23/93	0.0000	0.0000	0.0660	0.0000	0.0000	0.0000	0.0000	0.0990	0.0000	0.0000	0.0000	0.0000	0.0000
93.009030	LIQUID	2/23/93	0.0000	0.0000	0.0610	0.0000	0.0000	0.0000	0.0000	0.0990	0.0000	0.0000	0.0000	0.0000	0.0000

Table B-3 - Maximum Concentration of Target Organic Compounds in TA-50 Influent

Sample Number	Source of Sample	Sample Date	Target Organic Compounds												
			N	O	P	Q	R	S	T	U	V	W	X	Y	Z
93.009040	LIQUID	2/23/93	0.0000	0.0000	0.0600	0.0000	0.0000	0.0000	0.0000	0.1020	0.0000	0.0000	0.0000	0.0000	0.0000
93.009050	LIQUID	2/23/93	0.0000	0.0000	0.0760	0.0000	0.0000	0.0000	0.0000	0.0970	0.0000	0.0000	0.0000	0.0000	0.0000
93.009060	LIQUID	2/23/93	0.0000	0.0000	0.0730	0.0000	0.0000	0.0000	0.0000	0.0960	0.0000	0.0000	0.0000	0.0000	0.0000
93.009070	LIQUID	2/23/93	0.0000	0.0000	0.0690	0.0000	0.0000	0.0000	0.0000	0.1020	0.0000	0.0000	0.0000	0.0000	0.0000
93.009080	LIQUID	2/23/93	0.0000	0.0000	0.0690	0.0000	0.0000	0.0000	0.0000	0.0960	0.0000	0.0000	0.0000	0.0000	0.0000
93.013670	LIQUID	2/25/93	0.0000	0.0000	0.0810	0.0000	0.0000	0.0000	0.0000	0.0960	0.0000	0.0000	0.0000	0.0000	0.0000
93.013680	LIQUID	2/25/93	0.0000	0.0000	0.0740	0.0000	0.0000	0.0000	0.0000	0.0970	0.0000	0.0000	0.0000	0.0000	0.0000
93.013690	LIQUID	2/25/93	0.0070	0.0000	0.0800	0.0000	0.0000	0.0000	0.0000	0.0950	0.0000	0.0000	0.0000	0.0000	0.0000
93.013700	LIQUID	2/25/93	0.0000	0.0000	0.0720	0.0000	0.0000	0.0000	0.0000	0.0990	0.0000	0.0000	0.0000	0.0000	0.0000
93.013710	LIQUID	2/25/93	0.0170	0.0000	0.0790	0.0000	0.0000	0.0000	0.0000	0.0950	0.0000	0.0000	0.0000	0.0000	0.0000
93.013720	LIQUID	2/25/93	0.0060	0.0000	0.0600	0.0000	0.0000	0.0000	0.0000	0.0950	0.0000	0.0000	0.0000	0.0000	0.0000
93.013730	LIQUID	2/25/93	0.0000	0.0000	0.0560	0.0000	0.0000	0.0000	0.0000	0.0950	0.0000	0.0000	0.0000	0.0000	0.0000
93.013740	LIQUID	2/25/93	0.0000	0.0000	0.0560	0.0000	0.0000	0.0000	0.0000	0.0980	0.0000	0.0000	0.0000	0.0000	0.0000
93.013750	LIQUID	2/25/93	0.0000	0.0000	0.0580	0.0000	0.0000	0.0000	0.0000	0.1030	0.0000	0.0000	0.0000	0.0000	0.0000
93.013760	LIQUID	2/25/93	0.0000	0.0000	0.0590	0.0000	0.0000	0.0000	0.0000	0.0970	0.0000	0.0000	0.0000	0.0000	0.0000
93.021520	LIQUID	3/3/93	0.0000	0.0000	0.0810	0.0000	0.0000	0.0000	0.0000	0.1060	0.0000	0.0000	0.0000	0.0000	0.0000
93.021530	LIQUID	3/3/93	0.0000	0.0000	0.0870	0.0000	0.0000	0.0000	0.0000	0.1090	0.0000	0.0000	0.0000	0.0000	0.0000
93.021540	LIQUID	3/3/93	0.0000	0.0000	0.0800	0.0000	0.0000	0.0000	0.0000	0.1070	0.0000	0.0000	0.0000	0.0000	0.0000
93.017120	LIQUID	3/22/93	0.0000	0.0000	0.0660	0.0000	0.0000	0.0000	0.0000	0.1040	0.0000	0.0000	0.0000	0.0000	0.0000
93.017130	LIQUID	3/22/93	0.0000	0.0000	0.0690	0.0000	0.0000	0.0000	0.0000	0.1030	0.0000	0.0000	0.0000	0.0000	0.0000
93.017140	LIQUID	3/22/93	0.0000	0.0000	0.0650	0.0000	0.0000	0.0000	0.0000	0.1000	0.0000	0.0000	0.0000	0.0000	0.0000
93.017150	LIQUID	3/22/93	0.0000	0.0000	0.0610	0.0000	0.0000	0.0000	0.0000	0.1050	0.0000	0.0000	0.0000	0.0000	0.0000
93.017160	LIQUID	3/22/93	0.0000	0.0000	0.0700	0.0000	0.0000	0.0000	0.0000	0.1010	0.0000	0.0000	0.0000	0.0000	0.0000
93.017170	LIQUID	3/22/93	0.0000	0.0000	0.0600	0.0000	0.0000	0.0000	0.0000	0.1030	0.0000	0.0000	0.0000	0.0000	0.0000
93.020080	LIQUID	4/8/93	0.0000	0.0000	0.0680	0.0000	0.0000	0.0000	0.0000	0.0990	0.0000	0.0000	0.0000	0.0000	0.0000
93.020090	LIQUID	4/8/93	0.0110	0.0000	0.0740	0.0000	0.0000	0.0000	0.0000	0.0990	0.0000	0.0000	0.0000	0.0000	0.0000
93.020100	LIQUID	4/8/93	0.0000	0.0000	0.0840	0.0000	0.0000	0.0000	0.0000	0.1000	0.0000	0.0000	0.0000	0.0000	0.0000
93.020110	LIQUID	4/8/93	0.0080	0.0000	0.0690	0.0000	0.0000	0.0000	0.0000	0.1020	0.0000	0.0000	0.0000	0.0000	0.0000
93.020120	LIQUID	4/8/93	0.0070	0.0330	0.0600	0.0000	0.0000	0.0000	0.0000	0.1020	0.0000	0.0000	0.0000	0.0000	0.0000
93.020130	LIQUID	4/8/93	0.0000	0.0000	0.0580	0.0000	0.0000	0.0000	0.0000	0.1020	0.0000	0.0000	0.0000	0.0000	0.0000
93.020140	LIQUID	4/8/93	0.0000	0.0000	0.0740	0.0000	0.0000	0.0000	0.0000	0.1020	0.0000	0.0000	0.0000	0.0000	0.0000
93.020150	LIQUID	4/8/93	0.0000	0.0000	0.0620	0.0000	0.0000	0.0000	0.0000	0.1060	0.0000	0.0000	0.0000	0.0000	0.0000
93.020160	LIQUID	4/8/93	0.0000	0.0000	0.0620	0.0000	0.0000	0.0000	0.0000	0.1010	0.0000	0.0000	0.0000	0.0000	0.0000
93.020170	LIQUID	4/8/93	0.0000	0.0000	0.0570	0.0000	0.0000	0.0000	0.0000	0.1080	0.0000	0.0000	0.0000	0.0000	0.0000

Table B-3 - Maximum Concentration of Target Organic Compounds in TA-50 Influent

Sample Number	Source of Sample	Sample Date	Target Organic Compounds												
			N	O	P	Q	R	S	T	U	V	W	X	Y	Z
93.020180	LIQUID	4/8/93	0.0000	0.0000	0.0540	0.0000	0.0000	0.0000	0.0000	0.0990	0.0000	0.0000	0.0000	0.0000	0.0000
93.020190	LIQUID	4/8/93	0.0000	0.0000	0.0610	0.0000	0.0000	0.0000	0.0000	0.1000	0.0000	0.0000	0.0000	0.0000	0.0000
93.020200	LIQUID	4/8/93	0.0000	0.0000	0.0580	0.0000	0.0000	0.0000	0.0000	0.1080	0.0000	0.0000	0.0000	0.0000	0.0000
93.020210	LIQUID	4/8/93	0.0000	0.0000	0.0530	0.0000	0.0000	0.0000	0.0000	0.1060	0.0000	0.0000	0.0000	0.0000	0.0000
93.020220	LIQUID	4/8/93	0.0000	0.0000	0.0630	0.0000	0.0000	0.0000	0.0000	0.1070	0.0000	0.0000	0.0000	0.0000	0.0000
93.025650	LIQUID	4/12/93	0.0000	0.0000	0.0670	0.0000	0.0000	0.0000	0.0000	0.1060	0.0000	0.0000	0.0000	0.0000	0.0000
93.025660	LIQUID	4/12/93	0.0000	0.0000	0.0660	0.0000	0.0000	0.0000	0.0000	0.1010	0.0000	0.0000	0.0000	0.0000	0.0000
93.025670	LIQUID	4/12/93	0.0000	0.0000	0.0720	0.0000	0.0000	0.0000	0.0000	0.1010	0.0000	0.0000	0.0000	0.0000	0.0000
93.025680	LIQUID	4/12/93	0.0000	0.0000	0.0610	0.0000	0.0000	0.0000	0.0000	0.1010	0.0000	0.0000	0.0000	0.0000	0.0000
93.025690	LIQUID	4/12/93	0.0000	0.0000	0.0560	0.0000	0.0000	0.0000	0.0000	0.1020	0.0000	0.0000	0.0000	0.0000	0.0000
93.025700	LIQUID	4/12/93	0.0000	0.0000	0.0650	0.0000	0.0000	0.0000	0.0000	0.1030	0.0000	0.0000	0.0000	0.0000	0.0000
93.025710	LIQUID	4/12/93	0.0000	0.0000	0.0750	0.0000	0.0000	0.0000	0.0000	0.1010	0.0000	0.0000	0.0000	0.0000	0.0000
93.025720	LIQUID	4/12/93	0.0000	0.0000	0.0780	0.0000	0.0000	0.0000	0.0000	0.1040	0.0000	0.0000	0.0000	0.0000	0.0000
93.025730	LIQUID	4/12/93	0.0000	0.0000	0.0700	0.0000	0.0000	0.0000	0.0000	0.1020	0.0000	0.0000	0.0000	0.0000	0.0000
93.033630	LIQUID	4/13/93	0.0000	0.0000	0.0620	0.0000	0.0000	0.0000	0.0000	0.1000	0.0000	0.0100	0.0100	0.0000	0.0000
93.033640	LIQUID	4/13/93	0.0000	0.0000	0.0620	0.0000	0.0000	0.0000	0.0000	0.1020	0.0000	0.0110	0.0110	0.0000	0.0000
93.033650	LIQUID	4/13/93	0.0000	0.0000	0.0610	0.0000	0.0000	0.0000	0.0000	0.1010	0.0000	0.0050	0.0050	0.0000	0.0000
93.033660	LIQUID	4/13/93	0.0000	0.0000	0.0600	0.0000	0.0000	0.0000	0.0000	0.1000	0.0000	0.0000	0.0000	0.0000	0.0000
93.033670	LIQUID	4/13/93	0.0000	0.0000	0.0810	0.0000	0.0000	0.0000	0.0000	0.0980	0.0000	0.0000	0.0000	0.0000	0.0000
93.033680	LIQUID	4/13/93	0.0080	0.0000	0.0870	0.0000	0.0000	0.0000	0.0000	0.0990	0.0000	0.0000	0.0000	0.0000	0.0000
93.033690	LIQUID	4/13/93	0.0170	0.0000	0.0950	0.0000	0.0000	0.0000	0.0000	0.0990	0.0000	0.0000	0.0000	0.0000	0.0000
93.033700	LIQUID	4/13/93	0.0000	0.0000	0.0960	0.0000	0.0000	0.0000	0.0000	0.1000	0.0000	0.0000	0.0000	0.0000	0.0000
93.033710	LIQUID	4/13/93	0.0180	0.0000	0.0830	0.0000	0.0000	0.0000	0.0000	0.0990	0.0000	0.0000	0.0000	0.0000	0.0000
93.029560	LIQUID	4/15/93	0.0000	0.0000	0.0740	0.0000	0.0000	0.0000	0.0000	0.1010	0.0000	0.0000	0.0000	0.0000	0.0000
93.029570	LIQUID	4/15/93	0.0000	0.0000	0.0780	0.0000	0.0000	0.0000	0.0000	0.1000	0.0000	0.0000	0.0000	0.0000	0.0000
93.029580	LIQUID	4/15/93	0.0000	0.0000	0.0750	0.0000	0.0000	0.0000	0.0000	0.1000	0.0000	0.0000	0.0000	0.0000	0.0000
93.029590	LIQUID	4/15/93	0.0000	0.0000	0.0740	0.0000	0.0000	0.0000	0.0000	0.0980	0.0000	0.0000	0.0000	0.0000	0.0000
93.029600	LIQUID	4/15/93	0.0000	0.0000	0.0800	0.0000	0.0000	0.0000	0.0000	0.0990	0.0000	0.0000	0.0000	0.0000	0.0000
93.029610	LIQUID	4/15/93	0.0450	0.0000	0.0590	0.0000	0.0000	0.0000	0.0000	0.1000	0.0000	0.0000	0.0000	0.0000	0.0000
93.029620	LIQUID	4/15/93	0.0000	0.0000	0.0680	0.0000	0.0000	0.0000	0.0000	0.0990	0.0000	0.0000	0.0000	0.0000	0.0000
93.029630	LIQUID	4/15/93	0.0000	0.0000	0.0570	0.0000	0.0000	0.0000	0.0000	0.1010	0.0000	0.0000	0.0000	0.0000	0.0000
93.029640	LIQUID	4/15/93	0.0210	0.0000	0.0590	0.0000	0.0000	0.0000	0.0000	0.0980	0.0000	0.0000	0.0000	0.0000	0.0000
93.030260	LIQUID	4/15/93	0.0000	0.0000	0.0620	0.0000	0.0000	0.0000	0.0000	0.1010	0.0000	0.0000	0.0000	0.0000	0.0000
93.030270	LIQUID	4/15/93	0.0000	0.0000	0.0580	0.0000	0.0000	0.0000	0.0000	0.1030	0.0000	0.0000	0.0000	0.0000	0.0000

Table B-3 - Maximum Concentration of Target Organic Compounds in TA-50 Influent

Sample Number	Source of Sample	Sample Date	Target Organic Compounds												
			N	O	P	Q	R	S	T	U	V	W	X	Y	Z
93.047480	LIQUID	5/10/93	0.0380	0.0000	0.0770	0.0000	0.0000	0.0000	0.0000	0.1000	0.0000	0.0000	0.0000	0.0000	0.0000
93.047500	LIQUID	5/10/93	0.0000	0.0000	0.0740	0.0000	0.0000	0.0000	0.0000	0.0980	0.0000	0.0000	0.0000	0.0000	0.0000
93.047510	LIQUID	5/10/93	0.0000	0.0000	0.0710	0.0000	0.0000	0.0000	0.0000	0.1030	0.0000	0.0000	0.0000	0.0000	0.0000
93.047520	LIQUID	5/10/93	0.0000	0.0000	0.0580	0.0000	0.0000	0.0000	0.0000	0.1030	0.0000	0.0000	0.0000	0.0000	0.0000
93.047530	LIQUID	5/10/93	0.0000	0.0000	0.0770	0.0000	0.0000	0.0000	0.0000	0.1010	0.0000	0.0000	0.0000	0.0000	0.0000
93.047540	LIQUID	5/10/93	0.0880	0.0000	0.0840	0.0000	0.0000	0.0000	0.0000	0.1010	0.0000	0.0000	0.0000	0.0000	0.0000
93.047550	LIQUID	5/10/93	0.0070	0.0000	0.1290	0.0000	0.0000	0.0000	0.0000	0.0990	0.0000	0.0000	0.0000	0.0000	0.0000
93.047560	LIQUID	5/10/93	0.0210	0.0000	0.1370	0.0000	0.0000	0.0000	0.0000	0.1000	0.0000	0.0000	0.0000	0.0000	0.0000
93.047570	LIQUID	5/10/93	0.0470	0.0000	0.1010	0.0000	0.0000	0.0000	0.0000	0.1000	0.0000	0.0000	0.0000	0.0000	0.0000
93.051670	LIQUID	5/18/93	0.0000	0.0000	0.0840	0.0000	0.0000	0.0000	0.0000	0.1010	0.0000	0.0000	0.0000	0.0000	0.0000
93.051680	LIQUID	5/18/93	0.0000	0.0000	0.0020	0.0000	0.0000	0.0000	0.0000	0.1020	0.0000	0.0000	0.0000	0.0000	0.0000
93.051690	LIQUID	5/18/93	0.0310	0.0000	0.1020	0.0000	0.0000	0.0000	0.0000	0.1010	0.0000	0.0000	0.0000	0.0000	0.0000
93.051700	LIQUID	5/18/93	0.0000	0.0000	0.0830	0.0000	0.0000	0.0000	0.0000	0.1010	0.0000	0.0000	0.0000	0.0000	0.0000
93.051710	LIQUID	5/18/93	0.0000	0.0000	0.0760	0.0000	0.0000	0.0000	0.0000	0.1010	0.0000	0.0000	0.0000	0.0000	0.0000
93.051720	LIQUID	5/18/93	0.0090	0.0000	0.0790	0.0000	0.0000	0.0000	0.0000	0.1000	0.0000	0.0000	0.0000	0.0000	0.0000
93.051730	LIQUID	5/18/93	0.0000	0.0000	0.0740	0.0000	0.0000	0.0000	0.0000	0.1000	0.0000	0.0000	0.0000	0.0000	0.0000
93.051740	LIQUID	5/18/93	0.0060	0.0000	0.0810	0.0000	0.0000	0.0000	0.0000	0.1020	0.0000	0.0000	0.0000	0.0000	0.0000
93.051750	LIQUID	5/18/93	0.0050	0.0000	0.0810	0.0000	0.0000	0.0000	0.0000	0.0990	0.0000	0.0000	0.0000	0.0000	0.0000
93.055940	LIQUID	6/14/93	0.0000	0.0000	0.0680	0.0000	0.0000	0.0000	0.0000	0.0960	0.0000	0.0000	0.0000	0.0000	0.0000
93.055950	LIQUID	6/14/93	0.0000	0.0000	0.0510	0.0000	0.0000	0.0000	0.0000	0.0960	0.0000	0.0000	0.0000	0.0000	0.0000
93.055960	LIQUID	6/14/93	0.0230	0.0000	0.0580	0.0000	0.0000	0.0000	0.0000	0.1020	0.0000	0.0000	0.0000	0.0000	0.0000
93.055970	LIQUID	6/14/93	0.0000	0.0340	0.0510	0.0000	0.0000	0.0000	0.0000	0.1000	0.0000	0.0000	0.0000	0.0000	0.0000
93.055980	LIQUID	6/14/93	0.0000	0.1200	0.0160	0.0000	0.0000	0.0000	0.0000	0.1010	0.0000	0.0000	0.0000	0.0000	0.0000
93.055990	LIQUID	6/14/93	0.0440	0.0380	0.0460	0.0000	0.0000	0.0000	0.0000	0.1000	0.0000	0.0000	0.0000	0.0000	0.0000
93.056000	LIQUID	6/14/93	0.0000	0.0000	0.0740	0.0000	0.0000	0.0000	0.0000	0.0990	0.0000	0.0000	0.0000	0.0000	0.0000
93.056010	LIQUID	6/14/93	0.0000	0.0000	0.1000	0.0000	0.0000	0.0000	0.0000	0.0980	0.0000	0.0000	0.0000	0.0000	0.0000
93.056020	LIQUID	6/14/93	0.0100	0.0000	0.0800	0.0000	0.0000	0.0000	0.0000	0.0980	0.0000	0.0000	0.0000	0.0000	0.0000
93.056030	LIQUID	6/14/93	0.0000	0.0000	0.0850	0.0000	0.0000	0.0000	0.0000	0.1000	0.0000	0.0000	0.0000	0.0000	0.0000
93.056040	LIQUID	6/14/93	0.0000	0.0000	0.0360	0.0000	0.0000	0.0000	0.0000	0.0990	0.0000	0.0000	0.0000	0.0000	0.0000
93.056050	LIQUID	6/14/93	0.0780	0.0320	0.0880	0.0000	0.0000	0.0000	0.0000	0.1020	0.0000	0.0000	0.0000	0.0000	0.0000
93.056060	LIQUID	6/14/93	0.0000	0.0000	0.0930	0.0000	0.0000	0.0000	0.0000	0.0940	0.0000	0.0000	0.0000	0.0000	0.0000
93.056070	LIQUID	6/14/93	0.0000	0.0000	0.0850	0.0000	0.0000	0.0000	0.0000	0.1030	0.0000	0.0000	0.0000	0.0000	0.0000
93.056080	LIQUID	6/14/93	0.0480	0.0000	0.0940	0.0000	0.0000	0.0000	0.0000	0.1010	0.0000	0.0000	0.0000	0.0000	0.0000
93.071530	LIQUID	7/16/93	0.0000	0.0000	0.0690	0.0000	0.0000	0.0000	0.0000	0.1010	0.0000	0.0000	0.0000	0.0000	0.0000

Table B-3 - Maximum Concentration of Target (Organic Compounds in TA-50 Influent

Sample Number	Source of Sample	Date	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
93.074540	Liquid	7/16/93	0.0000	0.0000	0.0690	0.0000	0.0000	0.0000	0.0000	0.1020	0.0000	0.0000	0.0000	0.0000	0.0000
93.074560	Liquid	7/16/93	0.3100	0.0000	0.0670	0.0000	0.0000	0.0000	0.0000	0.0940	0.0000	0.0000	0.0000	0.0000	0.0000
93.074570	Liquid	7/16/93	0.0050	0.0000	0.1060	0.0000	0.0000	0.0000	0.0000	0.0870	0.0000	0.0000	0.0000	0.0000	0.0000
93.074580	Liquid	7/16/93	0.0170	0.0000	0.0820	0.0000	0.0000	0.0000	0.0000	0.0990	0.0000	0.0000	0.0000	0.0000	0.0000
93.090030	Liquid	7/19/93	0.0090	0.0000	0.0910	0.0000	0.0000	0.0000	0.0000	0.1010	0.0000	0.0000	0.0000	0.0000	0.0000
93.090040	Liquid	7/19/93	0.0000	0.0000	0.0910	0.0000	0.0000	0.0000	0.0000	0.1010	0.0000	0.0000	0.0000	0.0000	0.0000
93.090060	Liquid	7/19/93	0.0100	0.0000	0.0730	0.0000	0.0000	0.0000	0.0000	0.0970	0.0000	0.0000	0.0000	0.0000	0.0000
93.090070	Liquid	7/19/93	0.0000	0.0000	0.0760	0.0000	0.0000	0.0000	0.0000	0.1000	0.0000	0.0950	0.0000	0.0000	0.0000
93.101340	Liquid	7/19/93	0.0000	0.0000	0.0780	0.0000	0.0000	0.0000	0.0000	0.1010	0.0000	0.0950	0.0000	0.0000	0.0000
93.063130	Liquid	8/2/93	0.0000	0.0000	0.0690	0.0000	0.0000	0.0000	0.0000	0.1020	0.0000	0.0000	0.0000	0.0000	0.0000
93.063140	Liquid	8/2/93	0.0000	0.0000	0.0780	0.0000	0.0000	0.0000	0.0000	0.1020	0.0000	0.0000	0.0000	0.0000	0.0000
93.063150	Liquid	8/2/93	0.0160	0.0000	0.0720	0.0000	0.0000	0.0000	0.0000	0.1020	0.0000	0.0000	0.0000	0.0000	0.0000
93.063160	Liquid	8/2/93	0.0000	0.0000	0.0800	0.0000	0.0000	0.0000	0.0000	0.1040	0.0000	0.0000	0.0000	0.0000	0.0000
93.063170	Liquid	8/2/93	0.0000	0.0000	0.0730	0.0000	0.0000	0.0000	0.0000	0.1010	0.0000	0.0000	0.0000	0.0000	0.0000
93.063180	Liquid	8/2/93	0.0000	0.0000	0.0730	0.0000	0.0000	0.0000	0.0000	0.1010	0.0000	0.0000	0.0000	0.0000	0.0000
93.063190	Liquid	8/2/93	0.0000	0.0000	0.0710	0.0000	0.0000	0.0000	0.0000	0.1030	0.0000	0.0000	0.0000	0.0000	0.0000
93.063200	Liquid	8/2/93	0.0000	0.0000	0.0710	0.0000	0.0000	0.0000	0.0000	0.1030	0.0000	0.0000	0.0000	0.0000	0.0000
93.063210	Liquid	8/2/93	0.0000	0.0000	0.0830	0.0000	0.0000	0.0000	0.0000	0.1030	0.0000	0.0000	0.0000	0.0000	0.0000
93.063220	Liquid	8/2/93	0.0000	0.0000	0.0790	0.0000	0.0000	0.0000	0.0000	0.1040	0.0000	0.0000	0.0000	0.0000	0.0000
93.063230	Liquid	8/2/93	0.0000	0.0000	0.0700	0.0000	0.0000	0.0000	0.0000	0.1050	0.0000	0.0000	0.0000	0.0000	0.0000
93.063240	Liquid	8/2/93	0.0170	0.0000	0.0690	0.0000	0.0000	0.0000	0.0000	0.1050	0.0000	0.0000	0.0000	0.0000	0.0000
93.065900	Liquid	8/2/93	40	0.0000	0.0740	0.0000	0.0000	0.0000	0.0000	0.1030	0.0000	0.0000	0.0000	0.0000	0.0000
93.066600	Liquid	8/2/93	0.0190	0.0000	0.0780	0.0000	0.0000	0.0000	0.0000	0.1040	0.0000	0.0000	0.0000	0.0000	0.0000
93.066610	Liquid	8/2/93	0.0650	0.0000	0.0740	0.0000	0.0000	0.0000	0.0000	0.1040	0.0000	0.0000	0.0000	0.0000	0.0000
93.066620	Liquid	8/2/93	0.0100	0.0000	0.0780	0.0000	0.0000	0.0000	0.0000	0.1040	0.0000	0.0000	0.0000	0.0000	0.0000
93.066630	Liquid	8/2/93	0.0110	0.0000	0.0700	0.0000	0.0000	0.0000	0.0000	0.1040	0.0000	0.0000	0.0000	0.0000	0.0000
93.066640	Liquid	8/2/93	0.0730	0.0000	0.0740	0.0000	0.0000	0.0000	0.0000	0.1030	0.0000	0.0000	0.0000	0.0000	0.0000
93.066650	Liquid	8/2/93	0.0110	0.0000	0.0560	0.0000	0.0000	0.0000	0.0000	0.1060	0.0000	0.0000	0.0000	0.0000	0.0000
93.066660	Liquid	8/2/93	0.0000	0.0000	0.0570	0.0000	0.0000	0.0000	0.0000	0.1040	0.0000	0.0000	0.0000	0.0000	0.0000
93.066670	Liquid	8/2/93	0.0250	0.0000	0.0700	0.0000	0.0000	0.0000	0.0000	0.1080	0.0000	0.0000	0.0000	0.0000	0.0000
93.066680	Liquid	8/2/93	0.0190	0.0000	0.0740	0.0000	0.0000	0.0000	0.0000	0.1050	0.0000	0.0000	0.0000	0.0000	0.0000
93.074590	Liquid	8/2/93	0.0000	0.0000	0.0740	0.0000	0.0000	0.0000	0.0000	0.1030	0.0000	0.0000	0.0000	0.0000	0.0000
8/2/93	Liquid	8/2/93	0.0210	0.0000	0.0790	0.0000	0.0000	0.0000	0.0000	0.1050	0.0000	0.0000	0.0000	0.0000	0.0000

Table B-3 - Maximum Concentration of Target Organic Compounds in TA-50 Influent

Sample Number	Source of Sample	Date	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
93.066700	Liquid	8/2/93	0.0230	0.0000	0.0730	0.0000	0.0000	0.0000	0.0000	0.0040	0.0000	0.0000	0.0000	0.0000	0.0000
93.070310	Liquid	8/2/93	0.0000	0.0000	0.0630	0.0000	0.0000	0.0000	0.0000	0.0100	0.0000	0.0000	0.0000	0.0000	0.0000
93.070320	Liquid	8/2/93	0.0000	0.0000	0.0750	0.0000	0.0000	0.0000	0.0000	0.0990	0.0000	0.0000	0.0000	0.0000	0.0000
93.070330	Liquid	8/2/93	0.0000	0.0000	0.0720	0.0000	0.0000	0.0000	0.0000	0.0990	0.0000	0.0000	0.0000	0.0000	0.0000
93.070340	Liquid	8/2/93	0.0000	0.0000	0.0700	0.0000	0.0000	0.0000	0.0000	0.0990	0.0000	0.0000	0.0000	0.0000	0.0000
93.070350	Liquid	8/2/93	0.0000	0.0000	0.0750	0.0000	0.0000	0.0000	0.0000	0.1010	0.0000	0.0000	0.0000	0.0000	0.0000
93.070360	Liquid	8/2/93	0.0000	0.0000	0.0610	0.0000	0.0000	0.0000	0.0000	0.1010	0.0000	0.0000	0.0000	0.0000	0.0000
93.070370	Liquid	8/2/93	0.0000	0.0000	0.0690	0.0000	0.0000	0.0000	0.0000	0.1000	0.0000	0.0000	0.0000	0.0000	0.0000
93.070380	Liquid	8/2/93	0.0000	0.0000	0.0630	0.0000	0.0000	0.0000	0.0000	0.0990	0.0000	0.0000	0.0000	0.0000	0.0000
93.070390	Liquid	8/2/93	0.0070	0.0000	0.0630	0.0000	0.0000	0.0000	0.0000	0.1020	0.0000	0.0000	0.0000	0.0000	0.0000
93.070400	Liquid	8/2/93	0.0000	0.0000	0.0730	0.0000	0.0000	0.0000	0.0000	0.1010	0.0000	0.0000	0.0000	0.0000	0.0000
93.070410	Liquid	8/2/93	0.0070	0.0000	0.0660	0.0000	0.0000	0.0000	0.0000	0.1020	0.0000	0.0000	0.0000	0.0000	0.0000
93.070420	Liquid	8/2/93	0.0000	0.0000	0.0710	0.0000	0.0000	0.0000	0.0000	0.1010	0.0000	0.0000	0.0000	0.0000	0.0000
93.070430	Liquid	8/2/93	0.0000	0.0000	0.0570	0.0000	0.0000	0.0000	0.0000	0.1010	0.0000	0.0000	0.0000	0.0000	0.0000
93.070440	Liquid	8/2/93	0.0300	0.0000	0.0750	0.0000	0.0000	0.0000	0.0000	0.1030	0.0000	0.0000	0.0000	0.0000	0.0000
93.107310	Liquid	8/11/93	0.0000	0.0000	0.0870	0.0000	0.0000	0.0000	0.0000	0.0980	0.0000	0.0000	0.0000	0.0000	0.0000
93.107320	Liquid	8/11/93	0.0000	0.0000	0.0910	0.0000	0.0000	0.0000	0.0000	0.0990	0.0000	0.0000	0.0000	0.0000	0.0000
93.111820	Liquid	8/23/93	0.0000	0.0000	0.1230	0.0000	0.0000	0.0000	0.0000	0.1010	0.0000	0.0000	0.0000	0.0000	0.0000
93.111830	Liquid	8/23/93	0.0140	0.0000	0.0910	0.0000	0.0000	0.0000	0.0000	0.1010	0.0000	0.0000	0.0000	0.0000	0.0000
93.123710	Liquid	8/27/93	0.0000	0.0000	0.0850	0.0000	0.0000	0.0000	0.0000	0.1040	0.0000	0.0000	0.0000	0.0000	0.0000
93.123720	Liquid	8/27/93	0.0000	0.0490	0.0930	0.0000	0.0000	0.0000	0.0000	0.1040	0.0000	0.0000	0.0000	0.0000	0.0000
93.123730	Liquid	8/27/93	0.0000	0.0000	0.0960	0.0000	0.0000	0.0000	0.0000	0.1040	0.0000	0.0000	0.0000	0.0000	0.0000
93.123740	Liquid	8/27/93	0.0540	0.0000	0.0900	0.0000	0.0000	0.0000	0.0000	0.1040	0.0000	0.0000	0.0000	0.0000	0.0000
93.129860	Liquid	8/27/93	0.0000	0.0000	0.1320	0.0000	0.0000	0.0000	0.0000	0.0960	0.0000	0.0000	0.0000	0.0000	0.0000
93.129920	Liquid	8/27/93	0.0000	0.0000	0.1110	0.0000	0.0000	0.0000	0.0000	0.1080	0.0000	0.0000	0.0000	0.0000	0.0000
93.136990	Liquid	8/27/93	0.0000	0.0000	0.1080	0.0000	0.0000	0.0000	0.0000	0.0980	0.0000	0.0000	0.0000	0.0000	0.0000
93.137000	Liquid	8/27/93	0.0210	0.0000	0.0690	0.0000	0.0000	0.0000	0.0000	0.1100	0.0000	0.0000	0.0000	0.0000	0.0000
93.143470	Liquid	9/14/93	0.0000	0.0000	0.1160	0.0000	0.0000	0.0000	0.0000	0.1030	0.0000	0.0000	0.0000	0.0000	0.0000
93.143480	Liquid	9/14/93	0.0700	0.0000	0.0650	0.0000	0.0000	0.0000	0.0000	0.1040	0.0000	0.0000	0.0000	0.0000	0.0000
93.156260	Liquid	9/15/93	0.0060	0.0000	0.1120	0.0000	0.0000	0.0000	0.0000	0.1010	0.0000	0.0000	0.0000	0.0000	0.0000
93.156270	Liquid	9/15/93	0.0120	0.0000	0.0850	0.0000	0.0000	0.0000	0.0000	0.1030	0.0000	0.0000	0.0000	0.0000	0.0000
93.158010	Liquid	9/15/93	0.0000	0.0000	0.0990	0.0000	0.0000	0.0000	0.0000	0.1030	0.0000	0.0000	0.0000	0.0000	0.0000
93.158020	Liquid	9/15/93	0.1200	0.0000	0.0710	0.0000	0.0000	0.0000	0.0000	0.1010	0.0000	0.0000	0.0000	0.0000	0.0000

Target Organic Compounds

Table B-3 - Maximum Concentration of Target Organic Compounds in TA-50 Influent

Sample Number	Source of Sample	Sample Date	Target Organic Compounds												
			N	O	P	Q	R	S	T	U	V	W	X	Y	Z
93.171630	LIQUID	9/28/93	0.0000	0.0000	0.0660	0.0000	0.0000	0.0000	0.0000	0.0980	0.0000	0.0000	0.0000	0.0000	0.0000
93.171640	LIQUID	9/28/93	0.0470	0.0000	0.0760	0.0000	0.0000	0.0000	0.0000	0.1020	0.0000	0.0000	0.0000	0.0000	0.0000
93.167010	LIQUID	9/30/93	0.0000	0.0000	0.1200	0.0000	0.0000	0.0000	0.0000	0.1020	0.0000	0.0000	0.0000	0.0000	0.0000
93.167020	LIQUID	9/30/93	0.0580	0.0000	0.0760	0.0000	0.0000	0.0000	0.0000	0.1020	0.0000	0.0000	0.0000	0.0000	0.0000
93.174170	LIQUID	10/1/93	0.0000	0.0000	0.0660	0.0000	0.0000	0.0000	0.0000	0.1010	0.0000	0.0000	0.0000	0.0000	0.0000
93.174180	LIQUID	10/1/93	0.0000	0.0000	0.0740	0.0000	0.0000	0.0000	0.0000	0.1020	0.0000	0.0000	0.0000	0.0000	0.0000
93.181410	LIQUID	10/1/93	0.0000	0.0000	0.0630	0.0000	0.0000	0.0000	0.0000	0.1040	0.0000	0.0000	0.0000	0.0000	0.0000
93.181420	LIQUID	10/1/93	0.0000	0.0000	0.0700	0.0000	0.0000	0.0000	0.0000	0.1030	0.0000	0.0000	0.0000	0.0000	0.0000
93.191740	LIQUID	11/22/93	0.0000	0.0000	0.0540	0.0000	0.0000	0.0000	0.0000	0.0990	0.0000	0.0000	0.0000	0.0000	0.0000
93.191750	LIQUID	11/22/93	0.3100	0.0000	0.0690	0.0000	0.0000	0.0000	0.0000	0.0970	0.0000	0.0000	0.0000	0.0000	0.0000
93.200370	LIQUID	11/23/93	0.0060	0.0000	0.0510	0.0000	0.0000	0.0000	0.0000	0.0990	0.0000	0.0000	0.0000	0.0000	0.0000
93.200380	LIQUID	11/23/93	0.0100	0.0000	0.0630	0.0000	0.0000	0.0000	0.0000	0.1010	0.0000	0.0000	0.0000	0.0000	0.0000
93.215260	LIQUID	11/30/93	0.0340	0.0000	0.0910	0.0000	0.0000	0.0000	0.0000	0.0930	0.0000	0.0000	0.0000	0.0000	0.0000
93.215270	LIQUID	11/30/93	0.0310	0.0000	0.0840	0.0000	0.0000	0.0000	0.0000	0.0970	0.0000	0.0000	0.0000	0.0000	0.0000
93.195450	LIQUID	12/3/93	0.0000	0.0000	0.0690	0.0000	0.0000	0.0000	0.0000	0.1010	0.0000	0.0000	0.0000	0.0000	0.0000
93.195460	LIQUID	12/3/93	0.0000	0.0000	0.0610	0.0000	0.0000	0.0000	0.0000	0.1010	0.0000	0.0000	0.0000	0.0000	0.0000
93.220570	LIQUID	12/6/93	0.0000	0.0000	0.1030	0.0000	0.0000	0.0000	0.0000	0.1000	0.0000	0.0000	0.0000	0.0000	0.0000
93.220580	LIQUID	12/6/93	0.0000	0.0000	0.0780	0.0000	0.0000	0.0000	0.0000	0.0990	0.0000	0.0000	0.0000	0.0000	0.0000
93.217280	LIQUID	12/8/93	0.0000	0.0000	0.1610	0.0000	0.0000	0.0000	0.0000	0.0970	0.0000	0.0000	0.0000	0.0000	0.0000
93.217290	LIQUID	12/8/93	0.0220	0.0000	0.0720	0.0000	0.0000	0.0000	0.0000	0.1020	0.0000	0.0000	0.0000	0.0000	0.0000
93.223720	LIQUID	12/8/93	0.0000	0.0000	0.0790	0.0000	0.0000	0.0000	0.0000	0.0950	0.0000	0.0000	0.0000	0.0000	0.0000
93.229770	LIQUID	12/15/93	0.0000	0.0000	0.0880	0.0000	0.0000	0.0000	0.0000	0.0990	0.0000	0.0000	0.0000	0.0000	0.0000
93.229780	LIQUID	12/15/93	0.0160	0.0000	0.0850	0.0000	0.0000	0.0000	0.0000	0.0990	0.0000	0.0000	0.0000	0.0000	0.0000
93.234450	LIQUID	12/15/93	0.0000	0.0000	0.0940	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
93.234460	LIQUID	12/15/93	0.0000	0.0000	0.0710	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
93.241290	LIQUID	12/16/93	0.0000	0.0000	0.0920	0.0000	0.0000	0.0000	0.0000	0.1010	0.0000	0.0000	0.0000	0.0000	0.0000
93.241300	LIQUID	12/16/93	0.0000	0.0000	0.0780	0.0670	0.0000	0.0000	0.0000	0.1020	0.0000	0.0000	0.0000	0.0000	0.0000
93.247220	LIQUID	12/16/93	0.0000	0.0000	0.0960	0.0000	0.0000	0.0000	0.0000	0.1000	0.0000	0.0000	0.0000	0.0000	0.0000
93.247230	LIQUID	12/16/93	0.0000	0.0000	0.0860	0.0000	0.0000	0.0000	0.0000	0.1000	0.0000	0.0000	0.0000	0.0000	0.0000
93.247210	LIQUID	1/4/94	0.0000	0.0000	0.0710	0.0000	0.0000	0.0000	0.0000	0.0980	0.0000	0.0000	0.0000	0.0000	0.0000
93.251480	LIQUID	1/10/94	0.0000	0.0000	0.1020	0.0000	0.0000	0.0000	0.0000	0.0950	0.0000	0.0000	0.0000	0.0000	0.0000
93.251490	LIQUID	1/10/94	0.0000	0.0000	0.0450	0.0000	0.0000	0.0000	0.0000	0.0960	0.0000	0.0000	0.0000	0.0000	0.0000
93.255650	LIQUID	1/10/94	0.0000	0.0000	0.0930	0.0000	0.0000	0.0000	0.0000	0.0980	0.0000	0.0000	0.0000	0.0000	0.0000
93.255660	LIQUID	1/10/94	0.0000	0.0000	0.0840	0.0000	0.0000	0.0000	0.0000	0.0980	0.0000	0.0000	0.0000	0.0000	0.0000

Table B-3 - Maximum Concentration of Target (Organic) Compounds in TA-50 Influent

[illegible]

TABLE B-4

Tetrachloroethene
Detected in Influent

Sample Number	Date Sampled	Level Detected	Laboratory Uncertainty	Level of Quantitation
89.10027	12/14/88	25.5	7.65	2
89.10029	12/15/88	137.9	41.37	2
89.10030	12/15/88	93.8	28.14	2
89.10032	12/19/88	72	21.6	2
89.10033	12/22/88	70	21	2
89.10034	12/22/88	67.4	20.22	2
89.17434	10/31/89			10
89.17435	11/02/89			10
89.17627	11/07/89			10
89.17628	11/09/89			10
89.17736	11/14/89			10
89.17737	11/16/89			10
89.18112	12/04/89			2
89.18113	12/04/89			2
90.10158	01/11/90			5
90.10314	01/17/90			5
90.11174	02/25/90			5
90.15355	06/26/90			5
90.17442	09/13/90			5
90.19511	11/28/90			5
91.01152	02/08/91			5
91.01889	03/13/91			5
91.03432	04/25/91			5
91.05134	06/18/91			5
91.06507	07/16/91			5
91.10620	09/26/91			5
92.01353	02/03/92			5
92.02346	03/02/92			5
92.06097	05/01/92			5
92.06199	05/05/92			5
92.06446	05/06/92			5
92.06445	05/06/92			5
92.06447	05/06/92			5

Number of sampling events	33
Number of detected values	6
Mean of detected values	77.8
Standard deviation	36.9
Minimum value detected	25.5
Maximum value detected	137.9
3x standard deviation	110.7
Maximum value detected + 3x STD	248.6
Regulatory Limit	1000

TABLE B-5

Trichloroethene
Detected in Influent

Sample Number	Date Sampled	Level Detected	Laboratory Uncertainty	Level of Quantitation
89.10027	12/14/88			2
89.10029	12/15/88	5.1	1.53	2
89.10030	12/15/88	0.4	0.4	2
89.10032	12/19/88	52	15.6	2
89.10033	12/22/88	36.8	11.04	2
89.10034	12/22/88	39.2	11.76	2
89.17434	10/31/89			10
89.17435	11/02/89			10
89.17627	11/07/89			10
89.17628	11/09/89			10
89.17736	11/14/89			10
89.17737	11/16/89			10
89.18112	12/04/89			2
89.18113	12/04/89			2
90.10158	01/11/90			5
90.10314	01/17/90			5
90.11174	02/25/90			5
90.15355	06/26/90			5
90.17442	09/13/90			5
90.19511	11/28/90			5
91.01152	02/08/91			5
91.01889	03/13/91			5
91.03432	04/25/91			5
91.05134	06/18/91			5
91.06507	07/16/91			5
91.10620	09/26/91			5
92.01353	02/03/92			5
92.02346	03/02/92			5
92.06097	05/01/92			5
92.06199	05/05/92			5
92.06446	05/06/92			5
92.06445	05/06/92			5
92.06447	05/06/92			5

Number of sampling events	33
Number of detected values	5
Mean of detected values	26.7
Standard deviation	22.7
Minimum value detected	0.4
Maximum value detected	52.0
3x standard deviation	68.1
Maximum value detected + 3x STD	120.1
Regulatory Limit	1000

TABLE B-6
Methylene
Chloride
Detected in Influent

Sample Number	Date Sampled	Level Detected	Laboratory Uncertainty	Level of Quantitation
89.10027	12/14/88	556.4	278.2	2
89.10029	12/15/88	1727.6	863.8	2
89.10030	12/15/88	1414.3	707.15	2
89.10032	12/19/88	1411.4	705.7	2
89.10033	12/22/88	1215.6	607.8	2
89.10034	12/22/88	1228.7	614.35	2
89.17434	10/31/89			10
89.17435	11/02/89			10
89.17627	11/07/89			10
89.17628	11/09/89			10
89.17736	11/14/89			10
89.17737	11/16/89			10
89.18112	12/04/89			2
89.18113	12/04/89			2
90.10158	01/11/90	25.5	7.7	5
90.10314	01/17/90	26.3	7.9	5
90.11174	02/25/90	6500	1950	5
90.15355	06/26/90			5
90.17442	09/13/90	6.1	1.83	5
90.19511	11/28/90	61	18.3	5
91.01152	02/08/91			5
91.01889	03/13/91	96.8	29.1	5
91.03432	04/25/91			5
91.05134	06/18/91	6800	2040	5
91.06507	07/16/91	59	17.7	5
91.10620	09/26/91	72	21.6	5
92.01353	02/03/92	14	4.2	5
92.02346	03/02/92	9.4	2.82	5
92.06097	05/01/92	53	15.9	5
92.06199	05/05/92			5
92.06446	05/06/92	14	4.2	5
92.06445	05/06/92	230	69	5
92.06447	05/06/92	260	78	5

Number of sampling events	33
Number of detected values	21
Mean of detected values	1037.2
Standard deviation	1953.0
Minimum value detected	6.1
Maximum value detected	6800.0
3x standard deviation	5859.0
Maximum value detected + 3x STD	12659.0
Regulatory Limit	25000

TABLE B-7

1,1,1 – Trichloroethane
Detected in Influent

Sample Number	Date Sampled	Level Detected	Laboratory Uncertainty	Level of Quantitation
89.10027	12/14/88	25.5	7.65	2
89.10029	12/15/88	274.3	137.15	2
89.10030	12/15/88	53.8	16.14	2
89.10032	12/19/88	4223	2111.5	2
89.10033	12/22/88	2887.5	1443.75	2
89.10034	12/22/88	2885.9	1442.95	2
89.17434	10/31/89	130	39	10
89.17435	11/02/89	450	135	10
89.17627	11/07/89			10
89.17628	11/09/89			10
89.17736	11/14/89	41	12.3	10
89.17737	11/16/89	40.2	12.06	10
89.18112	12/04/89			2
89.18113	12/04/89			2
90.10158	01/11/90	12.4	3.7	5
90.10314	01/17/90			5
90.11174	02/25/90			5
90.15355	06/26/90			5
90.17442	09/13/90	90	27	5
90.19511	11/28/90			5
91.01152	02/08/91			5
91.01889	03/13/91	110.1	33	5
91.03432	04/25/91			5
91.05134	06/18/91			5
91.06507	07/16/91	9.1	2.73	5
91.10620	09/26/91	68	20.4	5
92.01353	02/03/92			5
92.02346	03/02/92			5
92.06097	05/01/92			5
92.06199	05/05/92			5
92.06446	05/06/92			5
92.06445	05/06/92			5
92.06447	05/06/92			5

Number of sampling events	33
Number of detected values	15
Mean of detected values	753.4
Standard deviation	1371.0
Minimum value detected	9.1
Maximum value detected	4223.0
3x standard deviation	4113.0
Maximum value detected + 3x STD	8336.0
Regulatory Limit	25000

TABLE B-8
Carbon
Tetrachloride
Detected in Influent

Sample Number	Date Sampled	Level Detected	Laboratory Uncertainty	Level of Quantitation
89.10027	12/14/88			2
89.10029	12/15/88	0.9	0.9	2
89.10030	12/15/88			2
89.10032	12/19/88	3.7	1.11	2
89.10033	12/22/88	1.5	1.5	2
89.10034	12/22/88	0.7	0.7	2
89.17434	10/31/89			10
89.17435	11/02/89			10
89.17627	11/07/89			10
89.17628	11/09/89			10
89.17736	11/14/89			10
89.17737	11/16/89			10
89.18112	12/04/89			2
89.18113	12/04/89			2
90.10158	01/11/90			5
90.10314	01/17/90			5
90.11174	02/25/90			5
90.15355	06/26/90			5
90.17442	09/13/90			5
90.19511	11/28/90			5
91.01152	02/08/91			5
91.01889	03/13/91	16.5	5.1	5
91.03432	04/25/91			5
91.05134	06/18/91			5
91.06507	07/16/91			5
91.10620	09/26/91			5
92.01353	02/03/92			5
92.02346	03/02/92			5
92.06097	05/01/92			5
92.06199	05/05/92			5
92.06446	05/06/92			5
92.06445	05/06/92			5
92.06447	05/06/92			5

Number of sampling events	33
Number of detected values	5
Mean of detected values	4.7
Standard deviation	6.7
Minimum value detected	0.7
Maximum value detected	16.5
3x standard deviation	20.2
Maximum value detected + 3x STD	36.7
Regulatory Limit	1000

TABLE B-9
Trichlorotrifluoroethane
Detected in Influent

Sample Number	Date Sampled	Level Detected	Laboratory Uncertainty	Level of Quantitation
89.10027	12/14/88			2
89.10029	12/15/88			2
89.10030	12/15/88			2
89.10032	12/19/88			2
89.10033	12/22/88			2
89.10034	12/22/88			2
89.17434	10/31/89			10
89.17435	11/02/89			10
89.17627	11/07/89			10
89.17628	11/09/89			10
89.17736	11/14/89			10
89.17737	11/16/89			10
89.18112	12/04/89			2
89.18113	12/04/89			2
90.10158	01/11/90			5
90.10314	01/17/90			5
90.11174	02/25/90			5
90.15355	06/26/90			5
90.17442	09/13/90			5
90.19511	11/28/90	17.2	5.16	5
91.01152	02/08/91			5
91.01889	03/13/91			5
91.03432	04/25/91			5
91.05134	06/18/91			5
91.06507	07/16/91			5
91.10620	09/26/91			5
92.01353	02/03/92			5
92.02346	03/02/92			5
92.06097	05/01/92			5
92.06199	05/05/92			5
92.06446	05/06/92			5
92.06445	05/06/92			5
92.06447	05/06/92			5

Number of sampling events	33
Number of detected values	1
Mean of detected values	17.2
Standard deviation	0.0
Minimum value detected	17.2
Maximum value detected	17.2
3x standard deviation	0.0
Maximum value detected + 3x STD	17.2
Regulatory Limit	25000

TABLE B-10
Chlorobenzene
Detected in Influent

Sample Number	Date Sampled	Level Detected	Laboratory Uncertainty	Level of Quantitation
89.10027	12/14/88			2
89.10029	12/15/88	3.1	2.0	2
89.10030	12/15/88			2
89.10032	12/19/88	2.6	0.78	2
89.10033	12/22/88	1.2 *	1.2	2
89.10034	12/22/88	1.0 *	1.0	2
89.17434	10/31/89			10
89.17435	11/02/89			10
89.17627	11/07/89			10
89.17628	11/09/89			10
89.17736	11/14/89			10
89.17737	11/16/89			10
89.18112	12/04/89			2
89.18113	12/04/89			2
90.10158	01/11/90			5
90.10314	01/17/90			5
90.11174	02/25/90			5
90.15355	06/26/90			5
90.17442	09/13/90			5
90.19511	11/28/90			5
91.01152	02/08/91			5
91.01889	03/13/91			5
91.03432	04/25/91			5
91.05134	06/18/91			5
91.06507	07/16/91			5
91.10620	09/26/91			5
92.01353	02/03/92			5
92.02346	03/02/92			5
92.06097	05/01/92			5
92.06199	05/05/92			5
92.06446	05/06/92			5
92.06445	05/06/92			5
92.06447	05/06/92			5

* Level detected is below the level of quantitation and is therefore an estimated value.

Number of sampling events	33
Number of detected values	4
Mean of detected values	2.0
Standard deviation	1.0
Minimum value detected	1.0
Maximum value detected	3.1
3x standard deviation	3.1
Maximum value detected + 3x STD	6.2
Regulatory Limit	25000

TABLE B-11
o-Dichlorobenzene
Detected in Influent

Sample Number	Date Sampled	Level Detected	Laboratory Uncertainty	Level of Quantitation
89.10027	12/14/88			2
89.10029	12/15/88	0.5 *	0.5	2
89.10030	12/15/88			2
89.10032	12/19/88			2
89.10033	12/22/88			2
89.10034	12/22/88			2
89.17434	10/31/89			10
89.17435	11/02/89			10
89.17627	11/07/89			10
89.17628	11/09/89			10
89.17736	11/14/89			10
89.17737	11/16/89			10
89.18112	12/04/89			2
89.18113	12/04/89			2
90.10158	01/11/90			5
90.10314	01/17/90			5
90.11174	02/25/90			5
90.15355	06/26/90			5
90.17442	09/13/90			5
90.19511	11/28/90			5
91.01152	02/08/91			5
91.01889	03/13/91			5
91.03432	04/25/91			5
91.05134	06/18/91			5
91.06507	07/16/91			5
91.10620	09/26/91			5
92.01353	02/03/92			5
92.02346	03/02/92			5
92.06097	05/01/92			5
92.06199	05/05/92			5
92.06446	05/06/92			5
92.06445	05/06/92			5
92.06447	05/06/92			5

* Level detected is below the level of quantitation and is therefore an estimated value.

Number of sampling events	33
Number of detected values	1
Mean of detected values	0.5
Standard deviation	0.0
Minimum value detected	0.5
Maximum value detected	0.5
3x standard deviation	0.0
Maximum value detected + 3x STD	0.5
Regulatory Limit	25000

TABLE B-12

Trichlorofluoromethane
Detected in Influent

Sample Number	Date Sampled	Level Detected	Laboratory Uncertainty	Level of Quantitation
89.10027	12/14/88	55.8	16.74	2
89.10029	12/15/88	381.3	190.65	2
89.10030	12/15/88	62.9	18.87	2
89.10032	12/19/88	59.4	17.82	2
89.10033	12/22/88	44.2	13.26	2
89.10034	12/22/88	43	12.9	2
89.17434	10/31/89			10
89.17435	11/02/89			10
89.17627	11/07/89			10
89.17628	11/09/89			10
89.17736	11/14/89			10
89.17737	11/16/89			10
89.18112	12/04/89			2
89.18113	12/04/89			2
90.10158	01/11/90			5
90.10314	01/17/90			5
90.11174	02/25/90			5
90.15355	06/26/90			5
90.17442	09/13/90			5
90.19511	11/28/90			5
91.01152	02/08/91			5
91.01889	03/13/91			5
91.03432	04/25/91			5
91.05134	06/18/91			5
91.06507	07/16/91			5
91.10620	09/26/91			5
92.01353	02/03/92			5
92.02346	03/02/92			5
92.06097	05/01/92			5
92.06199	05/05/92			5
92.06446	05/06/92			5
92.06445	05/06/92			5
92.06447	05/06/92			5

Number of sampling events	33
Number of detected values	6
Mean of detected values	107.8
Standard deviation	134.2
Minimum value detected	43.0
Maximum value detected	381.3
3x standard deviation	402.6
Maximum value detected + 3x STD	783.9
Regulatory Limit	25000

TABLE B-13
1,1,2-Trichloroethane
Detected in Influent

Sample Number	Date Sampled	Level Detected	Laboratory Uncertainty	Level of Quantitation
89.10027	12/14/88			2
89.10029	12/15/88	71.2	21.36	2
89.10030	12/15/88	71.1	21.33	2
89.10032	12/19/88			2
89.10033	12/22/88			2
89.10034	12/22/88			2
89.17434	10/31/89			10
89.17435	11/02/89			10
89.17627	11/07/89			10
89.17628	11/09/89			10
89.17736	11/14/89			10
89.17737	11/16/89			10
89.18112	12/04/89			2
89.18113	12/04/89			2
90.10158	01/11/90			5
90.10314	01/17/90			5
90.11174	02/25/90			5
90.15355	06/26/90			5
90.17442	09/13/90			5
90.19511	11/28/90			5
91.01152	02/08/91			5
91.01889	03/13/91			5
91.03432	04/25/91			5
91.05134	06/18/91			5
91.06507	07/16/91			5
91.10620	09/26/91			5
92.01353	02/03/92			5
92.02346	03/02/92			5
92.06097	05/01/92			5
92.06199	05/05/92			5
92.06446	05/06/92			5
92.06445	05/06/92			5
92.06447	05/06/92			5

Number of sampling events	33
Number of detected values	2
Mean of detected values	71.15
Standard deviation	0.07
Minimum value detected	71.10
Maximum value detected	71.20
3x standard deviation	0.21
Maximum value detected + 3x STD	71.41
Regulatory Limit	1000

TABLE B-14
Toluene
Detected in Influent

Sample Number	Date Sampled	Level Detected	Laboratory Uncertainty	Level of Quantitation
89.10027	12/14/88	49.8	14.94	2
89.10029	12/15/88	382.4	191.2	2
89.10030	12/15/88	146.7	44.01	2
89.10032	12/19/88	1000	500	2
89.10033	12/22/88	785.3	235.59	2
89.10034	12/22/88	823.2	411.6	2
89.17434	10/31/89			10
89.17435	11/02/89			10
89.17627	11/07/89			10
89.17628	11/09/89			10
89.17736	11/14/89			10
89.17737	11/16/89			10
89.18112	12/04/89			2
89.18113	12/04/89			2
90.10158	01/11/90	23	6.9	5
90.10314	01/17/90	21.2	6.4	5
90.11174	02/25/90	25.9	7.8	5
90.15355	06/26/90			5
90.17442	09/13/90			5
90.19511	11/28/90			5
91.01152	02/08/91	5.7	1.71	5
91.01889	03/13/91			5
91.03432	04/25/91			5
91.05134	06/18/91			5
91.06507	07/16/91			5
91.10620	09/26/91			5
92.01353	02/03/92			5
92.02346	03/02/92			5
92.06097	05/01/92			5
92.06199	05/05/92			5
92.06446	05/06/92			5
92.06445	05/06/92			5
92.06447	05/06/92			5

Number of sampling events	33
Number of detected values	10
Mean of detected values	326.3
Standard deviation	395.0
Minimum value detected	5.7
Maximum value detected	1000.0
3x standard deviation	1185.0
Maximum value detected + 3x STD	2185.0
Regulatory Limit	25000

TABLE B-15

2- Butanone
Detected in Influent

Sample Number	Date Sampled	Level Detected	Laboratory Uncertainty	Level of Quantitation
89.10027	12/14/88			10
89.10029	12/15/88	20.8	6.24	10
89.10030	12/15/88	0.6	0.6	10
89.10032	12/19/88	154.8	46.44	10
89.10033	12/22/88	116.7	35.01	10
89.10034	12/22/88	136.1	40.83	10
89.17434	10/31/89			50
89.17435	11/02/89			50
89.17627	11/07/89			20
89.17628	11/09/89			20
89.17736	11/14/89			20
89.17737	11/16/89			20
89.18112	12/04/89			10
89.18113	12/04/89			10
90.10158	01/11/90			20
90.10314	01/17/90			20
90.11174	02/25/90	149	44.7	20
90.15355	06/26/90			20
90.17442	09/13/90	65	19.5	20
90.19511	11/28/90	370	111	20
91.01152	02/08/91			20
91.01889	03/13/91			20
91.03432	04/25/91			20
91.05134	06/18/91			20
91.06507	07/16/91	180	54	20
91.10620	09/26/91			20
92.01353	02/03/92			20
92.02346	03/02/92			20
92.06097	05/01/92			20
92.06199	05/05/92			20
92.06446	05/06/92			20
92.06445	05/06/92			20
92.06447	05/06/92			20

Number of sampling events	33
Number of detected values	9
Mean of detected values	132.6
Standard deviation	108.5
Minimum value detected	0.6
Maximum value detected	370.0
3x standard deviation	325.5
Maximum value detected + 3x STD	695.5
Regulatory Limit	25000

TABLE B-16
Carbon
Disulfide
Detected in Influent

Sample Number	Date Sampled	Level Detected	Laboratory Uncertainty	Level of Quantitation
89.10027	12/14/88	1258.3	629.15	10
89.10029	12/15/88	4287.2	2143.6	10
89.10030	12/15/88	3345.3	1672.65	10
89.10032	12/19/88	7374.6	2212.38	10
89.10033	12/22/88	5982.9	2991.45	10
89.10034	12/22/88	6293.5	3146.75	10
89.17434	10/31/89			50
89.17435	11/02/89			50
89.17627	11/07/89			10
89.17628	11/09/89			10
89.17736	11/14/89			10
89.17737	11/16/89			10
89.18112	12/04/89			10
89.18113	12/04/89			10
90.10158	01/11/90	11	3.3	5
90.10314	01/17/90	160	48	5
90.11174	02/25/90	11.6	3.5	5
90.15355	06/26/90			5
90.17442	09/13/90			5
90.19511	11/28/90			5
91.01152	02/08/91			5
91.01889	03/13/91			5
91.03432	04/25/91			5
91.05134	06/18/91			5
91.06507	07/16/91			5
91.10620	09/26/91			5
92.01353	02/03/92			5
92.02346	03/02/92			5
92.06097	05/01/92			5
92.06199	05/05/92			5
92.06446	05/06/92			5
92.06445	05/06/92			5
92.06447	05/06/92			5

Number of sampling events	33
Number of detected values	9
Mean of detected values	3191.6
Standard deviation	2943.0
Minimum value detected	11.0
Maximum value detected	7374.6
3x standard deviation	8829.0
Maximum value detected + 3x STD	16203.6
Regulatory Limit	25000

TABLE B-17
Benzene
Detected in Influent

Sample Number	Date Sampled	Level Detected	Laboratory Uncertainty	Level of Quantitation
89.10027	12/14/88			2
89.10029	12/15/88	6.6	1.98	2
89.10030	12/15/88	3.1	0.93	2
89.10032	12/19/88	9.1	2.73	2
89.10033	12/22/88	6.5	1.95	2
89.10034	12/22/88	6.3	1.89	2
89.17434	10/31/89			10
89.17435	11/02/89			10
89.17627	11/07/89			10
89.17628	11/09/89			10
89.17736	11/14/89			10
89.17737	11/16/89			10
89.18112	12/04/89			2
89.18113	12/04/89			2
90.10158	01/11/90			5
90.10314	01/17/90			5
90.11174	02/25/90			5
90.15355	06/26/90			5
90.17442	09/13/90			5
90.19511	11/28/90			5
91.01152	02/08/91			5
91.01889	03/13/91			5
91.03432	04/25/91			5
91.05134	06/18/91			5
91.06507	07/16/91			5
91.10620	09/26/91			5
92.01353	02/03/92			5
92.02346	03/02/92			5
92.06097	05/01/92			5
92.06199	05/05/92			5
92.06446	05/06/92			5
92.06445	05/06/92			5
92.06447	05/06/92			5

Number of sampling events	33
Number of detected values	5
Mean of detected values	6.3
Standard deviation	2.1
Minimum value detected	3.1
Maximum value detected	9.1
3x standard deviation	6.4
Maximum value detected + 3x STD	15.5
Regulatory Limit	1000

APPENDIX C

Available Total Toxic Organics Data for TA-50-1 Effluent

RLWTF EFFLUENT-TTO ANALYSIS

TOTAL TOXIC ORGANICS		COMPOUNDS
MONTH	CONCENTRATION	DETECTED
	(MG/L)	(W/CONC. IN MG/L)
1994		
AUG	U	
SEPT	U	
OCT	U	
NOV	0.014	DI-N-BUTYLPHTHALATE: 0.014
DEC	U	
1995		
JAN	U	
FEB	U	
MAR	U	
APR	U	
MAY	U	
JUN	U	
JUL	U	
AUG	U	
SEP	U	
OCT	U	
NOV	U	
DEC	U	
1996		
JAN	U	
FEB	U	
MAR	0.3	PHENOL: 0.24
		2-CHLOROPHENOL: 0.02
		2-NITROPHENOL: 0.034
		4-NITROPHENOL: 0.032
APRIL	U	

9 9 7.3 0 0 9 5

89.18200
SVOAS
mature C

HSE-9 ANALYTICAL SERVICE AGREEMENT

Request No. 8246

I. PRESAMPLING CONFERENCE

Program Code WA 45No. Samples Expected 2 PER WEEK FOR SEVERAL WEEKSSubmission Date EACH THURSDAY
(REFRIG apct 124)

Completion Date _____

Chain of Custody? NOSpecial Protocol? (EPA etc.) NOAnalyses Requested: List analyses on HSE-9 Analytical Chemistry Request Sheet.
(Indicate expected concentration range and required detection limits under remarks.)VOA
SEMI VOLContainer Type GLASS/TEFLON Preservative REFRIG
(See Memo HSE-9/88-304. Guidelines for Collection and Preservation of Liquid Samples.)Storage Conditions (circle one or more): None Refrigerate Freeze Darkness

Sample Hazards Present? (Circle one or more)

No hazard Toxic Radioactive: alpha beta gamma Flammable Explosive/ReactiveSample Disposal: Return ✓ Discard _____
(All hazardous samples or TRU wastes will be returned to the customer.)Customer Gerry Buchholz HSE-9 Section Leader _____Customer Phone 7-58340 MS E518Organic
Inorganic
RadiochemDate 11/3/89Rcvd 12/4/89
VOA - 12/7/89

II. EMERGENCY SAMPLES

Emergency Status requires the following signatures: SVOA - 12/12/89

Customer Group Leader _____

HSE-9 Group Leader _____

Date _____

III. SAMPLE RECEIPT

Signature P. D. Wilson Date 12/4/89 Total No. Samples Received 1HSE-9 Sample No. Range 89.18200 to 89.18202Customer Sample No. Range "12/1/89" 111 to _____

9 9 1 3 1 0 9 6

HSE-9 ANALYTICAL BENCH SHEET

RN # 8246

MATRIX: _____

CUST. ID	SAMPLE % ID NOIS	SAMPLE AMOUNT	EXTRAC. DATE	KD DT	COMMENTS
-------------	---------------------	------------------	-----------------	----------	----------

89

89.18200

7.71

12/12

89.18202

~~89.18202~~

7.47

12/12

30.0 ml

over
spike

Blank is shared w/ RN 8300 (12/12)

GENERAL INFORMATION:

SOLVENT LOT: C08107

SODIUM SULFATE LOT: B39702

OTHER:

SPIKES: 1.50 µl RNA & ACID spikes (LA16934 & LA18466 respectively)

SPIKED BY: _____

GENERAL COMMENTS:

Dilute sample after Deluge from TA-50

9 9 1 3 0 1 0 4

March 5, 1990

Jerry,

Attached you will find a copy of the preliminary report for the filter cake sample that you submitted under Request #8246 for Semi-Volatiles analysis. Bis (2-ethylhexyl)phthalate was detected in the sample that was submitted for analysis. This component was not detected in the blank. The analysis of this sample also indicated the presence of hydrocarbons at fairly high concentration levels. The final report will follow shortly, after it has gone through the final data review process. If you have any questions regarding these results, please do not hesitate to contact me at 5-4792 or stop by my office at your convenience (TA-59, OH-1, Room 115). Thank you for your continued support and patience with our Semi-Volatile analytical program.



Chuck Rzeszutko

Organic Section Leader

HSE-9

9 9 / 3 : : : :

HSE-9 SEMIVOLATILE ORGANIC ANALYSIS SUMMARY OF ANALYTICAL RESULTS

To: Jerry Buchholz
From: Matthew Monagle

Request Number: 8246
Matrix: Soil (filter cake f: TA-50)
Summary Date: 02/23/1990

Sample ID	Target Compounds Found	Amount (ug/kg)	Level of Quantitation (ug/kg)
Blank 12/12	NONE	1000 ND ^{CHE} ¹⁵¹⁴⁰	330
89.18200	Bis (2-ethylhexyl) phthalate	88000	1000

Summary:

One filter cake sample was received by Pete Del Mar (HSE-9) on 12/04/89 at TA-50. The sample, along with a quality control blind and a method blank, were extracted by 18 hour soxhlet extraction on 12/12/1989 for semi-volatile compounds. Surrogate compounds were added to the matrix to determine the efficiency of the extraction. Analysis was performed on 02/01/1990 at TA-35 by capillary gas chromatography/mass spectrometry using EPA method SW-846.

Reportable amounts of one target compound were found in the sample submitted. Bis (2-ethylhexyl) phthalate, a common plasticizer frequently found in environmental samples, was found in the sample at a significant concentration.

Significant amounts of saturated hydrocarbons were also found in the sample. In addition, the sample had large quantities of compounds tentatively identified as saturated alkyl substituted benzenes.

Surrogate Recoveries:

All surrogate recoveries were within the EPA guidelines.

Problems encountered:

The sample was very wet. Therefore only about one third the amount of sample was used in the analysis. This has the effect of raising the reporting limit of the sample from 330 ug/kg to 1000 ug/kg.

REPORT NUMBER: 6531

***** HSE-9 ANALYTICAL REPORT *****

Prepared by: ESG on 7-May-1990

EPA SEMIVOLATILES

REQUEST NUMBER: 8246 MATRIX: C ANALYST: Matthew Monagle PROGRAM CODE: W445

OWNER: Jerry Buchholz GROUP: HSE-7 MAIL-STOP: E518 PHONE: 7-5834 TASK-ID:

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
12-4-89	89.18200	83329	< 0.99		MG/KG	3/05/90		Acenaphthene
12-4-89	89.18200	208968	< 0.99		MG/KG	3/05/90		Acenaphthylene
12-4-89	89.18200	62533	< 0.99		MG/KG	3/05/90		Aniline
12-4-89	89.18200	120127	< 0.99		MG/KG	3/05/90		Anthracene
12-4-89	89.18200	103333	< 0.99		MG/KG	3/05/90		Azobenzene
12-4-89	89.18200	56553	< 0.99		MG/KG	3/05/90		Benz(a)anthracene
12-4-89	89.18200	92875	< 0.99		MG/KG	3/05/90		m-Benzidine
12-4-89	89.18200	191242	< 0.99		MG/KG	3/05/90		Benzo(g,h,i)perylene
12-4-89	89.18200	50328	< 0.99		MG/KG	3/05/90		Benzo-a-pyrene
12-4-89	89.18200	205992	< 0.99		MG/KG	3/05/90		Benzo-b-fluoranthene
12-4-89	89.18200	207089	< 0.99		MG/KG	3/05/90		Benzo-k-fluoranthene
12-4-89	89.18200	65850	< 0.99		MG/KG	3/05/90		Benzoic acid
12-4-89	89.18200	100516	< 0.99		MG/KG	3/05/90		Benzyl alcohol
12-4-89	89.18200	111911	< 0.99		MG/KG	3/05/90		Bis(2-chloroethoxy)methane
12-4-89	89.18200	111444	< 0.99		MG/KG	3/05/90		Bis(2-chloroethyl)ether
12-4-89	89.18200	108601	< 0.99		MG/KG	3/05/90		Bis(2-chloroisopropyl)ether
12-4-89	89.18200	117817	88.	7.6	MG/KG	3/05/90		Bis(2-ethylhexyl)phthalate
12-4-89	89.18200	101553	< 0.99		MG/KG	3/05/90		4-Bromophenylphenyl ether
12-4-89	89.18200	85687	< 0.99		MG/KG	3/05/90		Butylbenzyl phthalate
12-4-89	89.18200	59507	< 0.99		MG/KG	3/05/90		4-Chloro-3-methylphenol
12-4-89	89.18200	106478	< 0.99		MG/KG	3/05/90		4-Chloroaniline
12-4-89	89.18200	91587	< 0.99		MG/KG	3/05/90		2-Chloronaphthalene
12-4-89	89.18200	95578	< 0.99		MG/KG	3/05/90		o-Chlorophenol
12-4-89	89.18200	7005723	< 0.99		MG/KG	3/05/90		4-Chlorophenylphenyl ether
12-4-89	89.18200	218019	< 0.99		MG/KG	3/05/90		Chrysene

12-4-89	89.18200	106445	< 0.99	MG/KG	3/05/90	p-Cresol
12-4-89	89.18200	84742	< 0.99	MG/KG	3/05/90	Di-n-butyl phthalate
12-4-89	89.18200	117840	< 0.99	MG/KG	3/05/90	Di-n-octyl phthalate
12-4-89	89.18200	53703	< 0.99	MG/KG	3/05/90	Dibenzo(a,h)anthracene
12-4-89	89.18200	132649	< 0.99	MG/KG	3/05/90	Dibenzofuran
12-4-89	89.18200	95501	< 0.99	MG/KG	3/05/90	o-Dichlorobenzene (1,2)
12-4-89	89.18200	541731	< 0.99	MG/KG	3/05/90	m-Dichlorobenzene (1,3)
12-4-89	89.18200	106467	< 0.99	MG/KG	3/05/90	p-Dichlorobenzene (1,4)
12-4-89	89.18200	91941	< 0.99	MG/KG	3/05/90	3,3'-Dichlorobenzidine
12-4-89	89.18200	120832	< 0.99	MG/KG	3/05/90	2,4-Dichlorophenol
12-4-89	89.18200	84662	< 0.99	MG/KG	3/05/90	Diethyl phthalate
12-4-89	89.18200	131113	< 0.99	MG/KG	3/05/90	Dimethyl phthalate
12-4-89	89.18200	105679	< 0.99	MG/KG	3/05/90	2,4-Dimethylphenol
12-4-89	89.18200	51285	< 0.99	MG/KG	3/05/90	2,4-Dinitrophenol
12-4-89	89.18200	121142	< 0.99	MG/KG	3/05/90	2,4-Dinitrotoluene
12-4-89	89.18200	606202	< 0.99	MG/KG	3/05/90	2,6-Dinitrotoluene
12-4-89	89.18200	206440	< 0.99	MG/KG	3/05/90	Fluoranthene
12-4-89	89.18200	86737	< 0.99	MG/KG	3/05/90	Fluorene
12-4-89	89.18200	118741	< 0.99	MG/KG	3/05/90	Hexachlorobenzene
12-4-89	89.18200	87683	< 0.99	MG/KG	3/05/90	Hexachlorobutadiene
12-4-89	89.18200	77474	< 0.99	MG/KG	3/05/90	Hexachlorocyclopentadiene
12-4-89	89.18200	67721	< 0.99	MG/KG	3/05/90	Hexachloroethane
12-4-89	89.18200	193395	< 0.99	MG/KG	3/05/90	Indeno(1,2,3-cd)pyrene
12-4-89	89.18200	78591	< 0.99	MG/KG	3/05/90	Isophorone
12-4-89	89.18200	534521	< 0.99	MG/KG	3/05/90	2-Methyl-4,6-dinitrophenol
12-4-89	89.18200	91576	< 0.99	MG/KG	3/05/90	2-Methylnaphthalene
12-4-89	89.18200	95487	< 0.99	MG/KG	3/05/90	2-Methylphenol
12-4-89	89.18200	106445	< 0.99	MG/KG	3/05/90	4-Methylphenol
12-4-89	89.18200	91203	< 0.99	MG/KG	3/05/90	Naphthalene
12-4-89	89.18200	88744	< 0.99	MG/KG	3/05/90	2-Nitroaniline
12-4-89	89.18200	99092	< 0.99	MG/KG	3/05/90	3-Nitroaniline
12-4-89	89.18200	100016	< 0.99	MG/KG	3/05/90	4-Nitroaniline
12-4-89	89.18200	98953	< 0.99	MG/KG	3/05/90	Nitrobenzene
12-4-89	89.18200	88755	< 0.99	MG/KG	3/05/90	2-Nitrophenol
12-4-89	89.18200	100027	< 0.99	MG/KG	3/05/90	4-Nitrophenol
12-4-89	89.18200	621647	< 0.99	MG/KG	3/05/90	N-Nitrosodi-n-propylamine
12-4-89	89.18200	62759	< 0.99	MG/KG	3/05/90	N-Nitrosodimethylamine
12-4-89	89.18200	86306	< 0.99	MG/KG	3/05/90	N-Nitrosodiphenylamine
12-4-89	89.18200	87865	< 0.99	MG/KG	3/05/90	Pentachlorophenol
12-4-89	89.18200	85018	< 0.99	MG/KG	3/05/90	Phenanthrene
12-4-89	89.18200	108952	< 0.99	MG/KG	3/05/90	Phenol
12-4-89	89.18200	129000	< 0.99	MG/KG	3/05/90	Pyrene
12-4-89	89.18200	120821	< 0.99	MG/KG	3/05/90	1,2,4-Trichlorobenzene
12-4-89	89.18200	95954	< 0.99	MG/KG	3/05/90	2,4,5-Trichlorophenol
12-4-89	89.18200	88062	< 0.99	MG/KG	3/05/90	2,4,6-Trichlorophenol

12-4-89

89.18200

105679

< 0.99

MG/KG

3/05/90

2,4-Xylenol

99/31099

REPORT NUMBER: 6531 (continued)

***** HSE-9 QUALITY ASSURANCE REPORT *****

Prepared by: ESG on 7-May-1990

EPA SEMIVOLATILES

REQUEST NUMBER: 8246 MATRIX: C ANALYST: Matthew Monagle PROGRAM CODE: WA45

OWNER: Jerry Buchholz GROUP: HSE-7 MAIL-STOP: E518 PHONE: 7-5834 TASK-ID:

There were no open (non-blind) Quality Control materials run with the samples reported above for one of the following reasons:

- ☐ Only qualitative data requested
- ☐ No QC samples run with this sample batch.
- ☐ No QC samples for this constituent and matrix type available within HSE-9

SUMMARY OF CONTROL STATUS OF BLIND QA SAMPLES RUN WITH THIS BATCH

SAMPLE NUM	ANALYSIS	RESULT	UNCERTAINTY	UNITS	CERTIFIED VALUE	CERTIFIED VALUE UNCERTAINTY	COMPLETION DATE	COMMENT	COMPOUND-NAME
89.18202	83329	< 1.4		ug/KG			3/05/90	UNDER CONTROL	Acenaphthene
89.18202	208968	< 1.4		ug/KG			3/05/90	UNDER CONTROL	Acenaphthylene
89.18202	62533	< 1.4		ug/KG			3/05/90	UNDER CONTROL	Aniline
89.18202	120127	< 1.4		ug/KG			3/05/90	UNDER CONTROL	Anthracene
89.18202	103333	< 1.4		ug/KG			3/05/90	UNDER CONTROL	Azobenzene
89.18202	56553	< 1.4		ug/KG			3/05/90	UNDER CONTROL	Benz(a)anthracene
89.18202	92875	< 1.4		ug/KG			3/05/90	UNDER CONTROL	m-Benzidine

89.18202	191242	< 1.4		MG/EG	3/05/90	UNDER CONTROL	Benzo(g,h,i)perylene
89.18202	50328	< 1.4		MG/EG	3/05/90	UNDER CONTROL	Benzo-a-pyrene
89.18202	205992	< 1.4		MG/EG	3/05/90	UNDER CONTROL	Benzo-b-fluoranthene
89.18202	207089	< 1.4		MG/EG	3/05/90	UNDER CONTROL	Benzo-k-fluoranthene
89.18202	65850	< 1.4		MG/EG	3/05/90	UNDER CONTROL	Benzoic acid
89.18202	100516	< 1.4		MG/EG	3/05/90	UNDER CONTROL	Benzyl alcohol
89.18202	111911	< 1.4		MG/EG	3/05/90	UNDER CONTROL	Bis(2-chloroethoxy)methane
89.18202	111444	< 1.4		MG/EG	3/05/90	UNDER CONTROL	Bis(2-chloroethyl)ether
89.18202	108601	< 1.4		MG/EG	3/05/90	UNDER CONTROL	Bis(2-chloroisopropyl)ether
89.18202	117817	74.	14.8	MG/EG	3/05/90	OUT OF CONTROL	Bis(2-ethylhexyl)phthalate
89.18202	101553	< 1.4		MG/EG	3/05/90	UNDER CONTROL	4-Bromophenyl(phenyl) ether
89.18202	85687	12.	2.4	MG/EG	3/05/90	OUT OF CONTROL	Butylbenzyl phthalate
89.18202	59507	< 1.4		MG/EG	3/05/90	UNDER CONTROL	4-Chloro-3-methylphenol
89.18202	106478	< 1.4		MG/EG	3/05/90	UNDER CONTROL	4-Chloroaniline
89.18202	91587	< 1.4		MG/EG	3/05/90	UNDER CONTROL	2-Chloronaphthalene
89.18202	95578	< 1.4		MG/EG	3/05/90	UNDER CONTROL	o-Chlorophenol
89.18202	7005723	< 1.4		MG/EG	3/05/90	UNDER CONTROL	4-Chlorophenyl(phenyl) ether
89.18202	218019	< 1.4		MG/EG	3/05/90	UNDER CONTROL	Chrysene
89.18202	106445	< 1.4		MG/EG	3/05/90	UNDER CONTROL	p-Cresol
89.18202	84742	< 1.4		MG/EG	3/05/90	UNDER CONTROL	Di-n-butyl phthalate
89.18202	117840	< 1.4		MG/EG	3/05/90	UNDER CONTROL	Di-n-octyl phthalate
89.18202	53703	< 1.4		MG/EG	3/05/90	UNDER CONTROL	Dibenzo(a,h)anthracene
89.18202	132649	< 1.4		MG/EG	3/05/90	UNDER CONTROL	Dibenzofuran
89.18202	95501	< 1.4		MG/EG	3/05/90	UNDER CONTROL	o-Dichlorobenzene (1,2)
89.18202	541731	< 1.4		MG/EG	3/05/90	UNDER CONTROL	m-Dichlorobenzene (1,3)
89.18202	106467	< 1.4		MG/EG	3/05/90	UNDER CONTROL	p-Dichlorobenzene (1,4)
89.18202	91941	< 1.4		MG/EG	3/05/90	UNDER CONTROL	3,3'-Dichlorobenzidine
89.18202	120832	17.	3.4	MG/EG	3/05/90	OUT OF CONTROL	2,4-Dichlorophenol
89.18202	84662	< 1.4		MG/EG	3/05/90	UNDER CONTROL	Diethyl phthalate
89.18202	131113	17.	3.4	MG/EG	3/05/90	OUT OF CONTROL	Dimethyl phthalate
89.18202	105679	< 1.4		MG/EG	3/05/90	UNDER CONTROL	2,4-Dimethylphenol
89.18202	51285	< 1.4		MG/EG	3/05/90	UNDER CONTROL	2,4-Dinitrophenol
89.18202	121142	< 1.4		MG/EG	3/05/90	UNDER CONTROL	2,4-Dinitrotoluene
89.18202	606202	< 1.4		MG/EG	3/05/90	UNDER CONTROL	2,6-Dinitrotoluene
89.18202	206440	< 1.4		MG/EG	3/05/90	UNDER CONTROL	Fluoranthene
89.18202	86737	< 1.4		MG/EG	3/05/90	UNDER CONTROL	Fluorene
89.18202	118741	< 1.4		MG/EG	3/05/90	UNDER CONTROL	Hexachlorobenzene
89.18202	87683	< 1.4		MG/EG	3/05/90	UNDER CONTROL	Hexachlorobutadiene
89.18202	77474	< 1.4		MG/EG	3/05/90	UNDER CONTROL	Hexachlorocyclopentadiene
89.18202	67721	< 1.4		MG/EG	3/05/90	UNDER CONTROL	Hexachloroethane
89.18202	193395	< 1.4		MG/EG	3/05/90	UNDER CONTROL	Indeno(1,2,3-cd)pyrene
89.18202	78591	< 1.4		MG/EG	3/05/90	UNDER CONTROL	Isophorone
89.18202	534521	< 1.4		MG/EG	3/05/90	UNDER CONTROL	2-Methyl-4,6-dinitrophenol
89.18202	91576	< 1.4		MG/EG	3/05/90	UNDER CONTROL	2-Methylnaphthalene
89.18202	95487	< 1.4		MG/EG	3/05/90	UNDER CONTROL	2-Methylphenol

Sample ID	Concentration (MG/KG)	Surrogate 1	Surrogate 2	Surrogate 3	Surrogate 4	Surrogate 5	Surrogate 6	Completion Date	Compound	
89.18202	106445	< 1.4						3/05/90	UNDER CONTROL	4-Methylphenol
89.18202	91203	< 1.4						3/05/90	UNDER CONTROL	Naphthalene
89.18202	88744	< 1.4						3/05/90	UNDER CONTROL	2-Nitroaniline
89.18202	99092	< 1.4						3/05/90	UNDER CONTROL	3-Nitroaniline
89.18202	100016	< 1.4						3/05/90	UNDER CONTROL	4-Nitroaniline
89.18202	98953	< 1.4						3/05/90	UNDER CONTROL	Nitrobenzene
89.18202	88755	< 1.4						3/05/90	UNDER CONTROL	2-Nitrophenol
89.18202	100027	< 1.4						3/05/90	UNDER CONTROL	4-Nitrophenol
89.18202	621647	< 1.4						3/05/90	UNDER CONTROL	N-Nitrosodi-n-propylamine
89.18202	62759	< 1.4						3/05/90	UNDER CONTROL	N-Nitrosodimethylamine
89.18202	86306	< 1.4						3/05/90	UNDER CONTROL	N-Nitrosodiphenylamine
89.18202	87865	< 1.4						3/05/90	UNDER CONTROL	Pentachlorophenol
89.18202	85018	14.	2.8					3/05/90	OUT OF CONTROL	Phenanthrene
89.18202	108952	< 1.4						3/05/90	UNDER CONTROL	Phenol
89.18202	129000	< 1.4						3/05/90	UNDER CONTROL	Pyrene
89.18202	120821	< 1.4						3/05/90	UNDER CONTROL	1,2,4-Trichlorobenzene
89.18202	95954	< 1.4						3/05/90	UNDER CONTROL	2,4,5-Trichlorophenol
89.18202	88062	< 1.4						3/05/90	UNDER CONTROL	2,4,6-Trichlorophenol
89.18202	105679	< 1.4						3/05/90	UNDER CONTROL	2,4-Xylenol

SURROGATE RESULTS FOR EPA SEMIVOLATILES

Surrogate 1 = 2-Fluorophenol (CAS # = 367124)
 Surrogate 2 = Phenol-d5 (CAS # = 4165622)
 Surrogate 3 = Nitrobenzene-d5 (CAS # = 4165600)
 Surrogate 4 = 2-Fluorobiphenyl (CAS # = 321608)
 Surrogate 5 = 2,4,6-Tribromophenol (CAS # = 118796)
 Surrogate 6 = p-Terphenyl-d14 (CAS # =)

SAMPLE NUMBER	UNITS	Surrogate 1	Surrogate 2	Surrogate 3	Surrogate 4	Surrogate 5	Surrogate 6	COMPLETION DATE
89.18200	%	79.	72.	62.	90.	38.	90.	5-Mar-1990
89.18202	%	72.	69.	40.	91.	35.	90.	5-Mar-1990

EPA Limits:

Medium	Unit	Surrogate 1	Surrogate 2	Surrogate 3	Surrogate 4	Surrogate 5	Surrogate 6
Water	%	21 - 100	10 - 94	35 - 114	43 - 116	10 - 123	33 - 141
Soil	%	25 - 121	24 - 113	23 - 120	30 - 115	19 - 122	18 - 137

11/2 5/7/90
 Analyst

CSL
 Section Leader
 Reviewer
 5/7/90

CSL
 QA Officer
 5/7/90

SEMIVOLATILE ORGANIC ANALYSIS
SURROGATE RECOVERY SUMMARY

REQUEST NUMBER: 8246
MATRIX: SOIL

SURROGATE ID	GC LIMITS (%)	AMOUNT ADDED
S1 = 2-Fluorophenol	25 121	100 ug/ml
S2 = d5-Phenol	24 113	100 ug/ml
S3 = d5-Nitrobenzene	23 120	50 ug/ml
S4 = 2-Fluorobiphenyl	30 115	50 ug/ml
S5 = 2,4,6-Tribromophenol	19 122	100 ug/ml
S6 = d14-Terphenyl	18 137	50 ug/ml

[illegible]

* Values outside of GC limits

D Surrogate, diluted below 1,000

APPENDIX D

Examples of Volatile and Semivolatile Organics Analyzed in TA-50-1 Sludge

***** EM-9 ANALYTICAL REPORT *****

EPA VOLATILES

Prepared by: LAK

on 7-Jan-1993

REQUEST NUMBER: 13788

MATRIX: C

ANALYST: TONEY BEGAY

PROGRAM CODE: W21D

NOTEBOOK: NA

PAGE: NA

OWNER: Leevi D. Williams

GROUP: EM-7

MAIL-STOP: E518

PHONE: 7-6904

TECHNIQUE: PTGC

ANALYTICAL PROCEDURE: EPA SW-846 3RD

Customer Sample Results, Sample # 92.31397

Date Collected: 10/28/92

Date Received: 10/28/92

Date Extracted: 11/09/92

Date Analyzed: 11/09/92

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
TA-50	SLUDGE 92.31397	67641	56.	16.8	UG/KG ✓	1/07/93		Acetone
TA-50	SLUDGE 92.31397	71432	< 5.		UG/KG	1/07/93		Benzene
TA-50	SLUDGE 92.31397	108861	< 5.		UG/KG	1/07/93		Bromobenzene
TA-50	SLUDGE 92.31397	74975	< 5.		UG/KG	1/07/93		Bromochloromethane
TA-50	SLUDGE 92.31397	75274	< 5.		UG/KG	1/07/93		Bromodichloromethane
TA-50	SLUDGE 92.31397	75252	< 5.		UG/KG	1/07/93		Bromoform
TA-50	SLUDGE 92.31397	74839	< 10.		UG/KG	1/07/93		Bromomethane
TA-50	SLUDGE 92.31397	78933	< 20.		UG/KG	1/07/93		2-Butanone
TA-50	SLUDGE 92.31397	104518	< 5.		UG/KG	1/07/93		n-Butylbenzene
TA-50	SLUDGE 92.31397	135988	< 5.		UG/KG	1/07/93		sec-Butylbenzene
TA-50	SLUDGE 92.31397	98066	< 5.		UG/KG	1/07/93		tert-Butylbenzene
TA-50	SLUDGE 92.31397	75150	< 5.		UG/KG	1/07/93		Carbon disulfide
TA-50	SLUDGE 92.31397	56235	< 5.		UG/KG	1/07/93		Carbon tetrachloride
TA-50	SLUDGE 92.31397	108907	< 5.		UG/KG	1/07/93		Chlorobenzene
TA-50	SLUDGE 92.31397	124481	< 5.		UG/KG	1/07/93		Chlorodibromomethane
TA-50	SLUDGE 92.31397	75003	< 10.		UG/KG	1/07/93		Chloroethane
TA-50	SLUDGE 92.31397	67663	< 5.		UG/KG	1/07/93		Chloroform
TA-50	SLUDGE 92.31397	74873	< 10.		UG/KG	1/07/93		Chloromethane
TA-50	SLUDGE 92.31397	95498	< 5.		UG/KG	1/07/93		o-Chlorotoluene
TA-50	SLUDGE 92.31397	106434	< 5.		UG/KG	1/07/93		p-Chlorotoluene
TA-50	SLUDGE 92.31397	96128	< 10.		UG/KG	1/07/93		1,2-Dibromo-3-chloropropane
TA-50	SLUDGE 92.31397	74953	< 5.		UG/KG	1/07/93		Dibromomethane
TA-50	SLUDGE 92.31397	95501	< 5.		UG/KG	1/07/93		o-Dichlorobenzene (1,2)
TA-50	SLUDGE 92.31397	541731	< 5.		UG/KG	1/07/93		m-Dichlorobenzene (1,3)
TA-50	SLUDGE 92.31397	106467	< 5.		UG/KG	1/07/93		p-Dichlorobenzene (1,4)
TA-50	SLUDGE 92.31397	75718	< 10.		UG/KG	1/07/93		Dichlorodifluoromethane

92.31397
UOA 5
Matrix C

***** EM-9 ANALYTICAL REPORT *****

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
TA-50 SLUDGE	92.31397	75343	< 5.		UG/KG	1/07/93		1,1-Dichloroethane
TA-50 SLUDGE	92.31397	107062	< 5.		UG/KG	1/07/93		1,2-Dichloroethane
TA-50 SLUDGE	92.31397	75354	< 5.		UG/KG	1/07/93		1,1-Dichloroethene
TA-50 SLUDGE	92.31397	156605	< 5.		UG/KG	1/07/93		trans-1,2-Dichloroethene
TA-50 SLUDGE	92.31397	156592	< 5.		UG/KG	1/07/93		cis-1,2-Dichloroethylene
TA-50 SLUDGE	92.31397	78875	< 5.		UG/KG	1/07/93		1,2-Dichloropropane
TA-50 SLUDGE	92.31397	142289	< 5.		UG/KG	1/07/93		1,3-Dichloropropane
TA-50 SLUDGE	92.31397	594207	< 5.		UG/KG	1/07/93		2,2-Dichloropropane
TA-50 SLUDGE	92.31397	563586	< 5.		UG/KG	1/07/93		1,1-Dichloropropene
TA-50 SLUDGE	92.31397	10061015	< 5.		UG/KG	1/07/93		cis-1,3-Dichloropropene
TA-50 SLUDGE	92.31397	10061026	< 5.		UG/KG	1/07/93		trans-1,3-Dichloropropene
TA-50 SLUDGE	92.31397	100414	< 5.		UG/KG	1/07/93		Ethylbenzene
TA-50 SLUDGE	92.31397	106934	< 5.		UG/KG	1/07/93		Ethylene dibromide
TA-50 SLUDGE	92.31397	591786	< 20.		UG/KG	1/07/93		2-Hexanone
TA-50 SLUDGE	92.31397	98828	< 5.		UG/KG	1/07/93		Isopropylbenzene
TA-50 SLUDGE	92.31397	99876	< 5.		UG/KG	1/07/93		4-Isopropyltoluene
TA-50 SLUDGE	92.31397	74884	< 5.		UG/KG	1/07/93		Methyl iodide
TA-50 SLUDGE	92.31397	108101	< 20.		UG/KG	1/07/93		4-Methyl-2-pentanone
TA-50 SLUDGE	92.31397	75092	< 5.		UG/KG	1/07/93		Methylene chloride
TA-50 SLUDGE	92.31397	103651	< 5.		UG/KG	1/07/93		Propylbenzene
TA-50 SLUDGE	92.31397	100425	< 5.		UG/KG	1/07/93		Styrene
TA-50 SLUDGE	92.31397	630206	< 5.		UG/KG	1/07/93		1,1,1,2-Tetrachloroethane
TA-50 SLUDGE	92.31397	79345	< 5.		UG/KG	1/07/93		1,1,2,2-Tetrachloroethane
TA-50 SLUDGE	92.31397	127184	< 5.		UG/KG	1/07/93		Tetrachloroethylene
TA-50 SLUDGE	92.31397	108883	< 5.		UG/KG	1/07/93		Toluene
TA-50 SLUDGE	92.31397	76131	6.5	1.95	UG/KG	1/07/93	✓	1,1,2-Trichloro-1,2,2-trifluoroethane
TA-50 SLUDGE	92.31397	71556	< 5.		UG/KG	1/07/93		1,1,1-Trichloroethane
TA-50 SLUDGE	92.31397	79005	< 5.		UG/KG	1/07/93		1,1,2-Trichloroethane
TA-50 SLUDGE	92.31397	79016	< 5.		UG/KG	1/07/93		Trichloroethene
TA-50 SLUDGE	92.31397	75694	< 5.		UG/KG	1/07/93		Trichlorofluoromethane
TA-50 SLUDGE	92.31397	96184	< 5.		UG/KG	1/07/93		1,2,3-Trichloropropane
TA-50 SLUDGE	92.31397	95636	< 5.		UG/KG	1/07/93		1,2,4-Trimethylbenzene
TA-50 SLUDGE	92.31397	108678	< 5.		UG/KG	1/07/93		1,3,5-Trimethylbenzene
TA-50 SLUDGE	92.31397	108054	< 10.		UG/KG	1/07/93		Vinyl acetate
TA-50 SLUDGE	92.31397	75014	< 10.		UG/KG	1/07/93		Vinyl chloride
TA-50 SLUDGE	92.31397	1330207	< 5.		UG/KG	1/07/93		Mixed-Xylenes (o ± m ± p)

***** EM-9 ANALYTICAL REPORT *****

Tentatively Identified Compounds in Customer Sample # 92.31397

none