SDMS Document

88375

Killam

Associates ▫ Consulting Engineers

Letter of Transmittal

To: Joe Novak
DEPE - ISEE Floor 5
Trenton, NJ

Date: 9/22/93 Job No.:
Attention: Joe Novak
Re: Hexcel Corp.

We are sending you ☑ Attached ☑ Under separate cover via UPS the following items:

☐ Shop Drawings ☐ Prints ☐ Plans ☐ Samples ☐ Specifications
☐ Copy of Letter ☐ Change of Address ☐ Reports ☐ Cost Estimate ☐ V.E. Report

Copies	Date	No.	Description
3			Hexcel monthly progress report August 1993
1			Lab data
			Copies in various UPS packs

These are Transmitted as checked below:

☑ As requested ☐ Make corrections as noted ☐ Resubmit _____ copies for review.
☑ For your use ☐ Amend and resubmit ☐ Submit _____ copies for distribution.
☐ No exceptions taken ☐ Rejected - see remarks ☐ Return _____ corrected prints.
☐ For review and comment ☐ _____
☐ For bids due _____ ☐ Prints returned after loaned to us

Remarks:

Copy to: Signed:

Enclosures are not as noted, please notify us at once

Killam
Associates □ Consulting Engineers

27 Bleeker Street
Millburn, NJ 07041-1008
Telephone: 201-379-3400
Fax: 201-912-2400

September 17, 1993

Mr. Joe Novak
Case Manager
Industrial Site Evaluation Element
New Jersey Department of Environmental
Protection and Energy
CN 028
401 East State Street, Floor 5
Trenton, New Jersey 08625-0028

RE: August 1993 Monthly Progress Report on Remedial Activities at the Former Hexcel Site
Lodi Borough
Bergen County, New Jersey
ECRA Case No. 86009

Dear Mr. Novak:

On behalf of Hexcel Corporation, Killam Associates (Killam), has prepared this summary report of remedial activities performed at the above referenced site during the period of August 16, 1993 to September 17, 1993. This report satisfies the requirements of Paragraph 36 of the New Jersey Department of Environmental Protection and Energy (NJDEPE) conditional approval letter of July 31, 1990.

A. GROUNDWATER

Collection of Basement Seepage Water

Approximately 4,100 gallons of basement seepage water which was collected during the month of August 1993, were treated and disposed of off-site.

Upper Overburden Aquifer

No additional work was performed relating to the upper overburden aquifer during the month of August.

Lower Overburden Aquifer

No additional work was performed relating to the lower overburden aquifer during the month of August.

B. SOILS

No additional work was performed relating to soils during the month of August.

C. GROUNDWATER TREATMENT SYSTEM OPERATION

The 4,100 gallons of basement seepage water collected in the month of August have been treated, but not discharged to the Passaic Valley Sewerage Commissioners (PVSC) as the PVSC Permit for Hexcel under Fine Organics (Permit #17405042) expired on November 30, 1992. Hexcel has applied for an extension to this permit with the PVSC.

On September 2, 1993, approximately 4,100 gallons of treated basement seepage water was trucked offsite and disposed of at E.I. Du Pont de Nemours and Co., Inc., Chambersworks, in Deepwater, New Jersey. A copy of the manifest documenting this activity can be found in Appendix A of this report.

The catalytic oxidizer was not operational during the period of August 4-25, 1993. The flame rod needed to be replaced. On August 25, 1993, an Anguil technician met with a Hexcel representative at the former Hexcel site and replaced the flame rod and a spark plug on the catalytic oxidizer.

Although Hexcel did not discharge during the month of August, it is still necessary to file the appropriate PVSC MR-2 form. A copy of this form is included in Appendix B of this report.

D. DENSE NON-AQUEOUS PHASE LIQUID (DNAPL)

DNAPL measurements were collected on August 20, 1993. MW-6, MW-8 and CW-16 exhibited the three highest amounts of DNAPL at 1.45', 1.47' and 2.5', respectively. Results for the DNAPL data collection can be found in Appendix C of this report. On September 17, 1993, MW-6, MW-8 and CW-16 were pumped to remove DNAPL. Approximately 2, 6 and 3 gallons of DNAPL were recovered from MW-6, MW-8 and CW-16, respectively.

E. LIGHT NON-AQUEOUS PHASE LIQUID (LNAPL)

Groundwater/LNAPL measurements were collected on August 20, 1993. Approximately one gallon of LNAPL was recovered from CW-7 on August 20, 1993. Results for this round of monitoring can be found in Appendix D of this report. Additionally, 0.18' of LNAPL was noted in P-2. Groundwater contour maps for the upper overburden aquifer and the lower

overburden aquifer (Figures 1 and 2, respectively) were generated from this information and can be found in Appendix E of this report.

F. STATUS OF PERMITS

Air Control Apparatus

Hexcel contacted the Bureau of New Source Review (BNSR) to discuss the status of the existing permit. Since the influent parameters are expected to be different when the groundwater recovery system is in full operation than what is currently specified on the existing air permit, BNSR has told Hexcel that a new permit application must be filed. Hexcel is collecting a representative influent sample during the week of September 19, 1993 and is planning to submit the new permit application by mid-October. An extensions to the requirement of performing a stack test by September 30, 1993 (as directed by the Metro Regional Enforcement) has been requested. Please refer to Appendix F for a copy of the NJDEPE letter and the response letter.

PVSC Sewer Connection Permit

A finalized version of this permit has been prepared and Hexcel is currently waiting for Fine Organics Corporation to sign the endorsement in the permit application. After this signature is obtained, Hexcel will submit the application to the PVSC.

NJDEPE Sewer Connection Permit

Hexcel is currently awaiting endorsement from Fine Organics Corporation. Upon receiving this endorsement, Hexcel will submit the permit application to the NJDEPE.

Stream Encroachment Permit

A Stream Encroachment Permit is required to install the sewerline connection since the Hexcel facility is located in a flood plain. This permit application is finalized and Hexcel is currently waiting for final endorsements from Fine Organics Corporation.

G. GROUNDWATER SAMPLING

On July 27th and 28th, 1993, twenty seven wells were sampled at the Hexcel site. The samples were analyzed for volatile organics plus a fifteen peak library scan (VO+15). Additionally, Hexcel sampled the seven control wells which are equipped with pumps. These wells had never been sampled previously. At least one sampling round of these wells was considered necessary for assessing equipment needs and for resolving air permit issues. (Hexcel would like to note that the sampling of these wells requires much time and dismantling of the recovery system and therefore does not propose to include these wells in any regular groundwater monitoring efforts.)

The samples collected from control wells CW-3, CW-7, CW-9, CW-11, CW-15, CW-19 and CW-21 were analyzed for VO+15 and polychlorinated biphenyls (PCBs). Groundwater results for the twenty-seven wells are shown in Table 1 and groundwater sampling results for the seven control wells equipped with pumps are shown in Table 2 of this report. Box maps showing all groundwater results for the upper overburden aquifer and the lower overburden aquifer, and groundwater results which exceed the NJDEPE Groundwater Cleanup Criteria, of February 1, 1993 for the upper overburden aquifer and the lower overburden aquifer, can be found in Figures 3 through 6 in Appendix E. Additionally, well sampling logs for all thirty-four wells are included in Appendix G.

A comparison of groundwater results from the July 27-28, 1993 sampling round, between the upper overburden aquifer and lower overburden aquifer shows that total volatile organic compounds (TVO) in the upper overburden aquifer are two to three orders of magnitude greater than the corresponding results in the lower overburden aquifer. Additionally, a comparison of groundwater results from this sampling round to the July/August 1988 sampling round done by Environ, shows that TVO results for the upper overburden aquifer wells of the well pairs, decreased by at least one order of magnitude from the 1988 results. This current sampling round also confirms the difference in contaminant levels between the upper overburden aquifer and the lower overburden aquifer, as previously illustrated by the results of the July/August 1988 sampling round.

The highest TVO (1.45 mg/L) in the lower overburden aquifer was detected in MW-1 located in the eastern portion of the site. The corresponding upper overburden aquifer well, MW-17, exhibited a TVO of 52.0 mg/L. A thinning of the clay layer separating the upper overburden aquifer has been noted in this location, and explains the relatively higher levels of TVO in the lower overburden aquifer in this location.

The second highest concentration of TVO (0.719 mg/L) in the lower overburden aquifer can be found at MW-3 which is directly downgradient of MW-1. The adjacent upper overburden aquifer well in this area, MW-2, exhibited a TVO of 0.047 mg/L.

The TVO result for MW-6 (13.0 mg/L) surpassed its paired lower overburden aquifer well MW-7, by two orders of magnitude. The TVO for MW-7 was 0.128 mg/L. This result reflects the integrity of the aquitard in this portion of the site. Similarly, in well pair MW-4 and MW-5, the TVO results for these two wells differed by two orders of magnitude, with the upper overburden aquifer well having the higher result, again indicating that the clay layer is effective in limiting the vertical migration of contamination at this location.

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TABLE 1
HEXCEL CORP.
Groundwater Analytical Results Summary (ug/l)
Volatile Organics

July 1993

	MW-6	MW-7	MW-8	MW-9	MW-10	MW-11	MW-12
Benzene	ND	ND	3600	ND	590	ND	ND
Chlorobenzene	6900	53	69000	25	7000	12	ND
Chloroethane	19	ND	ND	ND	ND	ND	ND
2-Chloroethyl Vinyl Ether	1700	ND	ND	ND	ND	ND	ND
Chloroform	24	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	59	9.4	5500	6.6	ND	2.8	ND
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	390	ND	ND	ND	ND
1,1-Dichloroethane	15	ND	160	ND	ND	ND	5.0
1,2-Dichloroethane	1900	22	ND	2.0	76	1.8	ND
1,1-Dichloroethylene	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethylene	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethylene	73	7.0	1300	15	ND	9.0	ND
Ethylbenzene	30	ND	340	ND	ND	ND	ND
Methylene Chloride	900	5.6	ND	ND	ND	ND	ND
Tetrachloroethylene	600	19	8200	9.1	ND	3.1	ND
Toluene	250	2.9	5400	1.5	ND	ND	ND
1,1,1-Trichlorethane	130	1.6	390	ND	ND	ND	38
Trichloroethylene	280	7.7	1300	11	ND	2.1	ND
Vinyl Chloride	30	ND	490	ND	ND	ND	ND
Xylene (Total)	45	ND	310	ND	ND	ND	ND

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TABLE 1 (cont.)
HEXCEL CORP.
Groundwater Analytical Results Summary (ug/l)
Volatile Organics

July 1993

	MW-13	MW-16	MW-24	MW-25	MW-28	CW-10	CW-14
Benzene	ND	3.7	ND	600	140	78	2400
Chlorobenzene	ND	63	1.4	2000	1700	1800	17000
Chloroethane	ND	ND	ND	ND	ND	ND	21
2-Chloroethyl Vinyl Ether	ND	ND	ND	ND	ND	ND	ND
Chloroform	1.1	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	2.5	ND	ND	ND	16	470
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	1.5	100
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	5.8	200
1,1-Dichloroethane	ND	6.0	ND	ND	ND	1.6	ND
1,2-Dichloroethane	ND	ND	0.78	ND	ND	ND	ND
1,1-Dichloroethylene	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethylene	ND	1.3	ND	ND	ND	ND	ND
cis-1,2-Dichloroethylene	15	32	ND	ND	ND	29	ND
Ethylbenzene	ND	3.6	ND	ND	ND	3.7	62
Methylene Chloride	ND	ND	ND	ND	ND	13	ND
Tetrachloroethylene	2.6	ND	ND	ND	ND	2.1	ND
Toluene	ND	10	ND	ND	ND	11	160
1,1,1-Trichlorethane	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene	5.7	ND	ND	ND	ND	7.6	ND
Vinyl Chloride	1.5	45	ND	ND	ND	ND	ND
Xylene (Total)	ND	3.0	ND	ND	ND	4.2	43

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TABLE 1 (cont.)
HEXCEL CORP.
Groundwater Analytical Results Summary (ug/l)
Volatile Organics

July 1993

	RW-6-2	MW-1	MW-2	MW-3	MW-4	MW-5	MW-17
Benzene	ND	ND	ND	ND	19	1.8	15
Chlorobenzene	110000	19	4.3	72	560	20	240
Chloroethane	ND	ND	ND	ND	ND	ND	ND
2-Chloroethyl Vinyl Ether	14000	ND	ND	ND	ND	ND	ND
Chloroform	2500	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	2500	58	1.8	180	1000	7.1	1200
1,3-Dichlorobenzene	ND	ND	ND	6.4	32	1.0	100
1,4-Dichlorobenzene	ND	7.4	1.6	15	110	2.5	170
1,1-Dichloroethane	1100	ND	ND	ND	330	5.5	250
1,2-Dichloroethane	180000	ND	ND	1.7	590	ND	450
1,1-Dichloroethylene	ND	ND	ND	ND	55	ND	120
trans-1,2-Dichloroethylene	ND	ND	ND	3.3	40	ND	61
cis-1,2-Dichloroethylene	ND	1300	28	380	160	81	35000
Ethylbenzene	110	ND	ND	ND	24	ND	15
Methylene Chloride	250000	ND	ND	ND	11000	8.3	5800
Tetrachloroethylene	5400	ND	9.0	25	1700	ND	2600
Toluene	1900	34	ND	ND	180	ND	360
1,1,1-Trichlorethane	ND	ND	ND	1.3	1600	ND	1700
Trichloroethylene	10000	ND	1.9	11	1800	ND	3800
Vinyl Chloride	ND	ND	ND	23	ND	69	ND
Xylene (Total)	ND	36	ND	ND	240	ND	140

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TABLE 1 (cont.)
HEXCEL CORP.
Groundwater Analytical Results Summary (ug/l)
Volatile Organics

July 1993

	MW-18	MW-20	MW-21	MW-22	MW-31	CW-1
Benzene	280	ND	24	ND	32	ND
Chlorobenzene	7100	ND	2400	760	100	17
Chloroethane	ND	ND	ND	ND	ND	ND
2-Chloroethyl Vinyl Ether	ND	ND	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	880	ND	40	2100	59	65
1,3-Dichlorobenzene	27	ND	56	ND	9.6	4.6
1,4-Dichlorobenzene	940	ND	200	190	32	8.1
1,1-Dichloroethane	71	ND	21	860	42	396
1,2-Dichloroethane	820	ND	ND	670	ND	0.99
1,1-Dichloroethylene	ND	ND	ND	ND	7.1	0.87
trans-1,2-Dichloroethylene	80	ND	ND	ND	60	6.1
cis-1,2-Dichloroethylene	42000	ND	1900	120000	1030	800
Ethylbenzene	110	ND	ND	240	13	5.5
Methylene Chloride	ND	ND	ND	270000	ND	ND
Tetrachloroethylene	ND	ND	ND	1200	ND	79
Toluene	160	1.2	14	3100	13	3.2
1,1,1-Trichlorethane	ND	ND	ND	2000	ND	23
Trichloroethylene	23	ND	ND	3400	ND	29
Vinyl Chloride	28000	ND	670	ND	34000	13
Xylene (Total)	290	ND	30	700	81	36

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TABLE 2
HEXCEL CORP.
Groundwater Analytical Results Summary (ug/l)
Volatile Organics

July 1993

	CW-3	CW-5	CW-9	CW-11	CW-15	CW-19	CW-21
Benzene	ND	ND	1600	960	340	1400	1200
Chlorobenzene	2200	3900	5200	52000	76000	16000	11000
Chloroethane	ND	ND	ND	ND	ND	ND	ND
2-Chloroethyl Vinyl Ether	ND	ND	ND	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	5300	5600	57	570	4600	190	140
1,3-Dichlorobenzene	110	ND	ND	ND	ND	35	ND
1,4-Dichlorobenzene	380	740	ND	120	310	170	180
1,1-Dichloroethane	460	1200	ND	230	330	10	ND
1,2-Dichloroethane	ND	1500	ND	ND	ND	ND	ND
1,1-Dichloroethylene	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethylene	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethylene	80000	160000	1200	6900	22000	260	6400
Ethylbenzene	ND	ND	ND	610	1400	10	ND
Methylene Chloride	5600	500000	ND	ND	ND	ND	ND
Tetrachloroethylene	2900	39000	ND	ND	11000	ND	ND
Toluene	510	7100	ND	6500	8100	210	370
1,1,1-Trichlorethane	1200	9500	ND	ND	290	ND	ND
Trichloroethylene	1200	81000	ND	ND	3100	ND	ND
Vinyl Chloride	ND	ND	ND	5500	ND	ND	ND
Xylene (Total)	690	2500	ND	200	ND	14	ND

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TABLE 2 (continued)
HEXCEL CORP.
Groundwater Analytical Results Summary (ug/l)
PCB'S

July 1993

UNFILTERED SAMPLES	CW-3	CW-5	CW-9	CW-11	CW-15	CW-19	CW-21
Arochlor 1016	ND	ND	ND	ND	ND	ND	ND
Arochlor 1221	ND	ND	ND	ND	ND	ND	ND
Arochlor 1232	ND	ND	ND	ND	ND	ND	ND
Arochlor 1242	22	180	ND	11	470	1.9	ND
Arochlor 1248	ND	ND	ND	ND	ND	ND	ND
Arochlor 1254	ND	ND	ND	ND	ND	ND	ND
Arochlor 1260	ND	ND	ND	ND	ND	ND	ND
FILTERED SAMPLES							
Arochlor 1016	ND	ND	ND	ND	ND	ND	ND
Arochlor 1221	ND	ND	ND	ND	ND	ND	ND
Arochlor 1232	ND	ND	ND	ND	ND	ND	ND
Arochlor 1242	ND	100	ND	ND	ND	ND	ND
Arochlor 1248	ND	ND	ND	ND	ND	ND	ND
Arochlor 1254	ND	ND	ND	ND	ND	ND	ND
Arochlor 1260	ND	ND	ND	ND	ND	ND	ND

The well pairs MW-8 and MW-9, and MW-10 and MW-11, are located in the western portion of the site where the hydraulic gradient is upward. The TVO results for these wells differed by two to three orders of magnitude, with the upper overburden aquifer wells having the higher results. The remaining well pair sampled in the July 27-28th sampling round, MW-12 and MW-13, exhibited low TVO concentrations in both the upper overburden aquifer and lower overburden aquifers, 0.043 mg/L and 0.026 mg/L, respectively.

The highest TVO concentration (811 mg/L) in the upper overburden aquifer exists at CW-5 located south of the Product Storage Area in Building 4. This well exhibits a lime green color and tends to form a foam cover on top of the water. On August 20, 1993 during the DNAPL/LNAPL/Groundwater data collection, a Killam employee observed a liquid material of the same green color bubbling out of the window at NAPP Chemical in the area directly across from CW-5. This observation has raised concerns regarding an offsite contribution to the contamination noted in the wells on this portion of the site (CW-5 and MW-22).

The second highest level of TVO (507 mg/L) was found in RW6-2 located in Building 2. This result may be related to the DNAPL which has been determined to exist in this general area of the site.

Isopleth maps of TVO data from the July 27/28th groundwater sampling round have been generated for the upper overburden aquifer and lower overburden aquifer. These maps are marked as Figures 7 and 8 respectively, and may be found in Appendix F of this report.

The TVO isopleth in the upper overburden aquifer exhibits a plume of the highest TVO concentrations in the area of Building 2 extending to the Saddle River, and south of Building 4 extending to Molnar Road. This pattern corresponds to the groundwater contour map in Figure 1 which depicts a high at Building 2 with flow directions in the northwest and southeast directions. The pattern is also fairly similar to the isopleth map for the upper overburden aquifer generated by Environ and contained in the **August Monthly Project Status Report** dated September 19, 1991 by Heritage Remediation/Engineering (HR/E). The plumes differ slightly due to the difference in wells which were sampled. The lower overburden aquifer isopleth for TVO shows a plume centered in the southeast corner of the site near MW-1 and follows the trend of the plumes illustrated by Environ in their lower overburden aquifer isopleth maps contained in HR/E's **March Monthly Project Status Report**, dated April 30, 1992. As noted previously in the report titled, **Conceptual Hydrogeologic Model of the Hexcel Site**, October 1992, given the stratigraphy and the local groundwater gradient, it is likely that a portion of the upper overburden aquifer plume developed in the southeast direction (along the direction of

groundwater flow) within the upper aquifer and, where the clay layer thins out, descended into the lower aquifer. Therefore, the contamination noted in the lower overburden well MW-3 can be explained by the fact that the horizontal gradient in the lower aquifer is to the southwest, placing MW-3 generally downgradient of MW-1.

Four of the seven control wells (CW-3, CW-5, CW-11, and CW-19) sampled exhibited PCBs above the method detection limit. However, the samples from the seven wells were re-analyzed using a 0.45 micron filter prior to extraction. The results showed non-detect for six wells, with CW-5 exhibiting a result of 100 ug/L. Therefore, it appears that the PCBs present in these wells are actually entrained in solids.

Based upon the groundwater sampling results from July 27-28, 1993, and the similarity to historical groundwater results of July/August 1988, it is Hexcel's opinion that contamination in both the upper overburden aquifer and lower overburden aquifer have been adequately delineated. Hexcel is currently waiting for the State's response regarding the installation of a bedrock well in the area of MW-1. Hexcel feels this well is unnecessary since the potential value of the data obtained does not warrant the risk of providing a possible vertical conduit for contamination into the bedrock aquifer. Additionally, Hexcel would again like to request that a meeting be scheduled between the NJDEPE and Killam Associates in order to discuss the status of this project with regard to NJDEPE requirements.

H. STORM SEWER OUTFALL

As required by the NJDEPE in their letter dated May 4, 1993, Part I, Section E., Hexcel sampled the storm sewer outfall on July 20, 1993. The sample was analyzed for polychlorinated biphenyls (PCBs). The laboratory analytical data report can be found in Appendix G. Results indicate that the level of Arochlor 1248 (260 ug/kg) and Arochlor 1254 (180 ug/kg) are below the current NJDEPE Residential Direct Contact Soil Cleanup Criteria for PCBs of 0.45 mg/kg. Therefore, no further action is required with respect to this area. Additionally, Hexcel wold like to note that Arochlor 1254 is not a compound associated with the former Hexcel site. Historical sampling results show that Arochlor 1254 has never been identified at the Hexcel site. Therefore, this PCB may have originated from an offsite source.

Killam
Associates Consulting Engineers

If you have any questions regarding this report or the project in general, please do not hesitate to contact me at (201) 912-2489.

Very truly yours,

KILLAM ASSOCIATES

Debra J. Nardacci for

Gary K. Walker
Senior Project Scientist

cc: A. William Nosil, Hexcel Corporation
James Higdon, Fine Organics
Lisa Bromberg, Esq.
Essam Saleh, Hexcel Corporation

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Associates Consulting Engineers

APPENDIX A

Manifest for Disposal of Treated Basement Seepage Water
September 2, 1993

State of New Jersey
Department of Environmental Protection and Energy
Hazardous Waste Regulation Program
Manifest Section
CN 028, Trenton, NJ 08625-0028

Please type or print in block letters. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039. Expires 9-30-94

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. NJ1000655413 — Manifest Document No. 00005 — 2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

A. State Manifest Document Number: **NJA 1666322**

B. State Generator's ID: 3-1-E

3. Generator's Name and Mailing Address
Hexcel Corporation
205 Main Street
Lodi, New Jersey 07644

4. Generator's Phone (201) 472-6800

5. Transporter 1 Company Name: K.E.I. Industrial Services — 6. US EPA ID Number: PA0992724171

C. State Trans. ID: 550066

7. Transporter 2 Company Name — 8. US EPA ID Number

D. Transporter's Phone (800) 762-2110

E. State Trans. ID

9. Designated Facility Name and Site Address
E.I. Dupont De Nemourst Co., Inc.
Chambers Works-Route 130
Deepwater, NJ 08023

10. US EPA ID Number: NJ1000290457 30

F. Transporter's Phone ( )

G. State Facility's ID

H. Facility's Phone (609) 540-8504

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) HM		12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	Waste Chemical Process Liquid NON RCRA/NON DOT Regulated Material	001	TT	41100	G	X000
b.						
c.						
d.						

J. Additional Descriptions for Materials Listed Above
a. L. water 100%
c.
b.
d.

K. Handling Codes for Wastes Listed Above
a. c.
b. d.

15. Special Handling Instructions and Additional Information
DEI Job #
P.O.# 2988
24 hr emergency 800-752-1033
NJ Decal Tractor 447845
Contract# OWO-2271
Release#23
Trailer 44978 ~~447845~~

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and *future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select* the best waste management method that is available to me and that I can afford.

Printed/Typed Name: X ESSAM E SALEH — Signature: X ESSAM E SALEH — Month Day Year: 09 01 93

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: X [illegible] — Signature: X [illegible] — Month Day Year: 09 01 93

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name — Signature — Month Day Year

GENERATOR — TRANSPORTER — FACILITY

NJA 1666322

EPA Form 8700-22 (Rev. 9/88) Previous editions are obsolete.

SIGNATURE AND INFORMATION *MUST* BE LEGIBLE ON ALL COPIES

GENERATOR COPY

883750016

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APPENDIX B

MR-2 for August, 1993

883750017

USE CHARGE SELF MONITORING REPORT

NAME HEXCEL CORPORATION CONTRIBUTION TO FINE ORGANICS DISCHARGE

ADDRESS 205 MAIN STREET

FACILITY LOCATION LODI, NJ 07644

OUTLET DESIGNATION (17 DIGITS) 17405041-37430-0171 OUTLET #1 INDUSTRIAL S.

MONITORING PERIOD					
08	01	93	08	31	93
MO.	DAY	YR	MO.	DAY	YR
START			END		

VOL DISCHARGED THIS PERIOD
NONE GALS
CU. FT. X 7.48 = GALLONS
4050
EFFLUENT METER READING LAST DAY THIS PERIOD

DATE	BOD 0310	TSS 0530						
	NODI							
	NO DISCHARGE		DURING		THIS	PERIOD		

SIGNATURE OF PRINCIPAL OR AUTHORIZED AGENT	TYPE NAME AND TITLE	TELEPHONE NO.
	DAVID H. KNOWLES	201-912-2584
		DATE 9/1/93

PVSC FORM MR-2 REV.2. 1/86

883750018

Killam
Associates Consulting Engineers

APPENDIX C

DNAPL Monitoring Forms

August 20, 1993

883750019

WELL SAMPLING LOG

OWNER'S WELL NO.: CW - 14

CLIENT: Hexcel Corporation ETKA NO.: 225300

SITE LOCATION: Lodi, New Jersey DATE: 7/28/93

NJDEPE CASE NO.: 86009 NJDEPE WELL PERMIT NO.: _____

WELL TYPE: Monitoring - 4 inch PVC

GEOLOGIC FORMATION: _____

ELEVATION-Top of Casing: 26.37 ft ELEVATION-Ground Surface: 26.70 ft

TOTAL WELL DEPTH FROM TOC: 13.74 ft DEPTH TO SCREEN FROM TOC: _____ ft

****

PURGE INFORMATION

DEPTH TO WATER FROM TOC: 8.21 ft ORGANIC VAPOR READINGS: 0 PPM

DEPTH TO FREE PRODUCT: NA ft FREE PRODUCT THICKNESS: NA ft

PURGE METHOD: Centrifugal Pump

ONE WELL VOLUME: 3.5 Gal TOTAL PURGE VOLUME: 10.0 Gal

PURGE TIME START: 10:50 PURGE TIME FINISH: 11:12

DTW AFTER PURGING: 12.47 ft PURGE RATE: 0.5 GPM

PURGE CHEMISTRIES:	TEMP(C)	Ph	COND(uS)	TDS
1ST VOL	24°	6.9	540	370
2ND VOL	22°	6.4	750	540
3RD VOL	21°	6.5	770	550

SAMPLING INFORMATION:

SAMPLE NUMBER: 93-0728-CW14 SAMPLE METHOD Teflon Bailor

SAMPLE TIME START: 11:58

DTW BEFORE SAMPLING 8.26 ft DTW AFTER SAMPLING: 8.39 ft

SAMPLE CHEMISTRIES: TEMP.(C) 24° pH 6.3 COND(uS) 790 TDS 570

SAMPLE ANALYSIS: VOA + 15

FIELD PERSONNEL: Susan Waddell, George Spangenberg, Joe Cajiao, Inés Torres, Dan Flatin

OBSERVATIONS & COMMENTS: _____

883750020

HEXCEL PROJECT, LODI, NJ
DNAPL MONITORING FORM

DATE: August 20 , 1993 RECORDED BY: Dan Flatin
WEATHER CONDITIONS: Partly sunny, hazy, lower 90's

Well No.	TOC Elevation (ft, NJVD)	Depth to Water (ft)	Depth to DNAPL	Total Well Depth (From TOC)	Water Elevation (ft, NJVD)	Thickness of DNAPL	Time of Day	Remarks
RW7-2	26.48	6.29	ND	14.70	20.19		11:28	
RW7-3	26.78	6.57	ND	17.00	20.21		11:26	
RW7-4	27.11	6.95	ND	18.94	20.16		11:27	
RW7-6	26.48	7.04	ND	14.84	19.44		12:01	
RW7-7	26.89	7.91	ND	14.80	18.98		11:20	
RW7-8	25.90	5.69	ND	14.84	20.21		11:34	
RW7-9	26.87	7.18	ND	16.00	19.69		11:21	
RW7-10	26.08	7.52	ND	14.04	18.56		11:37	
RW6-1	28.84	3.51	Trace	13.60	25.33	Trace	11:08	
RW6-2	29.27	3.71	ND	14.68	25.56		11:11	
MW-6	30.70	10.24	17.15	18.60	20.46	1.49	11:04	Approximately 2 gallons of DNAPL recovered on Septermber 17, 1993 via pumping.
MW-8	30.26	12.03	15.65	17.12	18.23	1.47	11:48	Approximately 6 gallons of DNAPL recovered on September 17, 1993 via pumping.
MW-27	31.43	7.54	ND	12.40	23.89		10:34	
MW-28	29.68	10.79	ND	14.86	18.89		11:00	

Note: The Total Well Depth (From TOC) will be determined during the first monitoring episode.

CHECKED BY:_____, DATE:_____

883750021

HEXCEL PROJECT, LODI, NJ
DNAPL MONITORING FORM

Well No.	TOC Elevation (ft, NJVD)	Depth to Water (ft)	Depth to DNAPL	Total Well Depth (From TOC)	Water Elevation (ft, NJVD)	Thickness of DNAPL	Time of Day	Remarks
CW-3	29.72	6.94	ND	11.28	22.78		10:39	
CW-4	29.00	6.33	ND	10.86	22.67		10:27	
CW-5	28.67	6.05	ND	9.15	22.62		10:23	
CW-14	26.37	7.86	ND	13.74	18.51		11:45	
CW-15	26.31	7.85	ND	11.80	18.46		11:52	
CW-16	26.45	7.80	11.24	13.74	18.65	2.50	11:53	Approximately 3 gallons of DNAPL were recovered on September 17, 1993 via pumping.
CW-18	26.61	7.44	ND	13.75	19.17		12:06	

Note: The Total Well Depth (From TOC) will be determined during the first monitoring episode.

CHECKED BY:_____, DATE:_____

883750022

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Associates ▫ Consulting Engineers

APPENDIX D

Groundwater/LNAPL Monitoring Forms

August 20, 1993

883750023

HEXCEL PROJECT, LODI, NJ
LNAPL/GROUNDWATER MONITORING FORM

DATE: August 20, 1993 RECORDED BY: Daniel Flatin
WEATHER CONDITIONS: Partly sunny, hazy, lower 90's

Well No.	Total Depth of Well (TOC)	TOC Elevation (ft., NJVD)	Depth to Water (ft.)	Water Elevation (ft., NJVD)	Elev. of Top of Screen (ft., NJVD)	Time	Depth to LNAPL/ DNAPL	Thickness of LNAPL/ DNAPL	Remarks
MW-1	23.27	32.42	10.36	22.06	14.03	10:26	ND		
MW-2	10.16	31.00	8.58	22.42	24.90	10:50	ND		
MW-3	30.50	31.13	10.82	20.31	4.84	10:49	ND		
MW-4	9.80	32.28	8.42	23.86	27.52	10:36	ND		
MW-5	28.18	32.50	11.74	20.76	9.03	10:37	ND		
MW-6	18.60	30.70	10.24	20.46	22.14	11:04	ND		
MW-7	32.66	30.68	10.22	20.46	3.18	11:03	ND		
MW-8	17.12	30.26	12.03	18.23	22.92	11:48	ND		
MW-9	29.52	29.83	9.39	20.44	4.89	11:42	ND		
MW-10	16.98	30.83	12.66	18.17	24.33	12:09	ND		
MW-11	33.64	30.78	10.65	20.13	7.28	12:08	ND		
MW-12	17.16	31.01	10.60	20.41	23.62	10:58	ND		
MW-13	33.06	31.16	10.22	20.94	2.63	10:59	ND		
MW-14	15.48	30.70	11.60	19.10	24.12	10:56	ND		

Note: The Total Well Depth (From TOC) and the Elev. of Top of Screen will be determined during the first monitoring episode.

CHECKED BY:_____, DATE:_____

883750024

HEXCEL PROJECT, LODI, NJ
LNAPL/GROUNDWATER MONITORING FORM
(Continued)

Well No.	Total Depth of Well (TOC)	TOC Elevation (ft., NJVD)	Depth to Water (ft.)	Water Elevation (ft, NJVD)	Elev. of Top of Screen (ft., NJVD)	Time	Depth to LNAPL/ DNAPL	Thickness of LNAPL/ DNAPL	Remarks
MW-15	25.38	30.77	9.36	21.41	10.17	10:57	ND		
MW-16	12.80	29.69	7.29	22.40	21.71	10:47	ND		
MW-17	13.98	31.53	9.53	22.00	25.10	10:25	ND		
MW-18	11.23	32.23	10.54	21.69	26.04	10:26	ND		
MW-19	26.34	29.08	7.53	21.55	7.30	10:55	ND		
MW-20	19.68	27.95	5.25	22.70	13.50	10:20	ND		
MW-21	14.98	30.67	8.94	21.73	25.80	10:52	ND		
MW-22	8.33	28.36	6.22	22.14	24.73	10:18	ND		
MW-23	9.80	27.29	5.25	22.04	22.83	10:12	ND		
MW-24	9.76	26.12	4.10	22.02	21.93	10:07	ND		
MW-25	12.94	26.03	7.44	18.59	23.47	10:01	ND		
MW-26	12.90	28.88	7.89	20.99	12.26	11:14	ND		
MW-27	12.40	31.43	7.54	23.89	24.10	10:34	ND		
MW-28	14.86	29.68	10.79	18.89	24.50	11:00	ND		

Note: The Total Well Depth (From TOC) and the Elev. of Top of Screen will be determined during the first monitoring episode.

CHECKED BY:_____, DATE:_____

883750025

HEXCEL PROJECT, LODI, NJ
LNAPL/GROUNDWATER MONITORING FORM
(Continued)

Well No.	Total Depth of Well (TOC)	TOC Elevation (ft., NJVD)	Depth to Water (ft.)	Water Elevation (ft, NJVD)	Elev. of Top of Screen (ft., NJVD)	Time	Depth to LNAPL/ DNAPL	Thickness of LNAPL/ DNAPL	Remarks
MW-29	9.50	27.06	4.83	22.23	22.50	10:10	ND		
MW-30	10.32	27.95	5.31	22.64	22.25	10:15	ND		
MW-31	10.53	27.95	5.80	22.15	22.33	10:13	ND		
MW-32	11.10	32.38	9.08	23.30	27.41	10:51	ND		
MW-33	16.80	31.72	10.10	21.62	24.37	10:54	ND		
CW-1	11.34	29.77	7.33	22.44	23.27	10:32	ND		
CW-2	11.24	29.51	6.82	22.69	23.11	10:31	ND		
CW-6	8.34	28.93	6.55	22.38	25.25	10:24	ND		
CW-7	13.94	26.13	9.40	16.73	17.70	12:23	7.56 LNAPL	1.84	Approximately 1 gallon of LNAPL recovered manually.
CW-8	14.90	26.77	8.34	18.43	17.70	12:16	ND		
CW-10	10.10	25.91	8.39	17:52	17.50	12:18	ND		
CW-13	11.28	26.05	7.60	18.45	17.60	11:40	ND		
CW-22	13.82	26.35	7.19	19.16	18.30	11:17	ND		
RW1-1	28.38	28.38	5.48	22.90	23.67	10:39	ND		

Note: The Total Well Depth (From TOC) and the Elev. of Top of Screen will be determined during the first monitoring episode.

CHECKED BY:_____, DATE:_____

883750026

HEXCEL PROJECT, LODI, NJ
LNAPL/GROUNDWATER MONITORING FORM
(Continued)

Well No.	Total Depth of Well (TOC)	TOC Elevation (ft., NJVD)	Depth to Water (ft.)	Water Elevation (ft., NJVD)	Elev. of Top of Screen (ft., NJVD)	Time	Depth to LNAPL/ DNAPL	Thickness of LNAPL/ DNAPL	Remarks
RW6-1	13.60	28.84	3.51	25.33	20.28	11:08	ND		
RW7-8	14.84	25.90	5.69	20.21	16.71	11:34	ND		
RW15-1	14.80	28.89	7.72	21.17	25.68	10:44	ND		
RW15-2	14.00	30.13	7.53	22.60	26.37	12:50	ND		
P-1	14.00	30.06	7.39	22.67	27.79	10:41	ND		
P-2	12.40	30.06	8.02	22.04	28.73	10:42	7.84 LNAPL	0.18	

Note: The Total Well Depth (From TOC) and the Elev. of Top of Screen will be determined during the first monitoring episode.

CHECKED BY:_____, DATE:_____

883750027

Killam
Associates □ Consulting Engineers

APPENDIX E

Figures 1 through 8

NOTICE ABOUT OVERSIZED MAP

THIS MAP IS AN OVERSIZED DOCUMENT. IT IS AVAILABLE FOR REVIEW AT THE U.S. EPA SUPERFUND RECORDS CENTER, 290 BROADWAY, 18TH FLOOR, NEW YORK, NY 10007
PHONE: (212) 637-4308.

FORMER HEXCEL CORPORATION SITE
LODI BOROUGH, NEW JERSEY

AUGUST MONTHLY PROJECT REPORT ON REMEDIAL ACTIVITIES

GROUNDWATER SAMPLING RESULTS
UPPER OVERBURDEN AQUIFER

FIGURE 3

883750029

NOTICE ABOUT OVERSIZED MAP

THIS MAP IS AN OVERSIZED DOCUMENT. IT IS AVAILABLE FOR REVIEW AT THE U.S. EPA SUPERFUND RECORDS CENTER, 290 BROADWAY, 18TH FLOOR, NEW YORK, NY 10007
PHONE: (212) 637-4308.

FORMER HEXCEL CORPORATION SITE

LODI BOROUGH, NEW JERSEY

AUGUST MONTHLY PROJECT REPORT ON REMEDIAL ACTIVITIES

GROUNDWATER SAMPLING RESULTS

LOWER OVERBURDEN AQUIFER

FIGURE 4

883750030

NOTICE ABOUT OVERSIZED MAP

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PHONE: (212) 637-4308.

FORMER HEXCEL CORPORATION SITE

LODI BOROUGH, NEW JERSEY

AUGUST MONTHLY PROJECT REPORT ON REMEDIAL ACTIVITIES

GROUNDWATER EXCEEDENCE MAP
UPPER OVERBURDEN AQUIFER

FIGURE 5

883750031

NOTICE ABOUT OVERSIZED MAP

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PHONE: (212) 637-4308.

FORMER HEXCEL CORPORATION SITE

LODI BOROUGH, NEW JERSEY

AUGUST MONTHLY PROJECT REPORT ON REMEDIAL ACTIVITIES

GROUNDWATER EXCEEDENCE MAP
LOWER OVERBURDEN AQUIFER

FIGURE 6

883750032

NOTICE ABOUT OVERSIZED MAP

THIS MAP IS AN OVERSIZED DOCUMENT. IT IS AVAILABLE FOR REVIEW AT THE U.S. EPA SUPERFUND RECORDS CENTER, 290 BROADWAY, 18TH FLOOR, NEW YORK, NY 10007
PHONE: (212) 637-4308.

FORMER HEXCEL CORPORATION SITE

LODI BOROUGH, NEW JERSEY

AUGUST MONTHLY PROJECT REPORT ON REMEDIAL ACTIVITIES

TOTAL VOLATILE ORGANIC COMPOUNDS ISOPLETH MAP FOR THE UPPER OVERBURDEN AQUIFER

FIGURE 7

883750033

NOTICE ABOUT OVERSIZED MAP

THIS MAP IS AN OVERSIZED DOCUMENT. IT IS AVAILABLE FOR REVIEW AT THE U.S. EPA SUPERFUND RECORDS CENTER, 290 BROADWAY, 18TH FLOOR, NEW YORK, NY 10007
PHONE: (212) 637-4308.

FORMER HEXCEL CORPORATION SITE

LODI BOROUGH, NEW JERSEY

AUGUST MONTHLY PROJECT REPORT ON REMEDIAL ACTIVITIES

TOTAL VOLATILE ORGANIC COMPOUNDS ISOPLETH MAP FOR THE LOWER OVERBURDEN AQUIFER

FIGURE 8

883750034

Killam
Associates □ Consulting Engineers

APPENDIX F

NJDEPE Metro Enforcement Letter
and
Response to BNSR Letter

Air and Environmental
Quality ENforcement

Metropolitan Regional Office
Tel: (201) 669-3935
Fax: (201) 669-3942

State of New Jersey
Department of Environmental Protection and Energy
Division of Facility Wide Enforcement
2 Babcock Place
West Orange, New Jersey 07052

July 14, 1993

Ms. Debra J. Nardacci
Killam Associates - Waste Management Division
27 Bleeker Street
Millburn, N.J. 07041-1008

RECEIVED
KILLAM ASSOC. CONSULTING ENGINEERS
27 BLEEKER ST. MILLBURN, N.J. 07041
JUL 19 1993
Nardacci

REFERENCE: Your Letter, Dated May 18, 1993
Hexcel Corporation (FOA Corporation)
Plant I.D. #00270 - N.J. Stack #020
Permit/Certificate #101386
Application Log #01903837

Dear Ms. Nardacci:

Please be advised that the stack test(s) as required by the referenced permit(s) and certificate(s) and/or application log number must be conducted on or before September 30, 1993.

Requests for additional extensions of time must be addressed to this office, and further extensions will only be granted if appropriate justification is presented.

If you have any questions regarding this matter, please call this office.

Sincerely,

Byron B. Sullivan
Regional Enforcement Officer

c.c.: L. Mikolajczyk
E. Choromanski
R. Jaggi
#1 file

Killam
Associates □ Consulting Engineers

27 Bleeker Street
Millburn, NJ 07041-1008
Telephone: 201-379-3400
Fax: 201-912-2400

September 10, 1993

Mr. Lou Mikolajczyk
NJDEPE-Bureau of New Source Review
CN 027
401 East State Street
Trenton, NJ 08625-0027

Mr. Byron Sullivan
Division of Facility Wide Enforcement
2 Babcock Place
West Orange, NJ 07052

RE: Hexcel Corporation
Plant I.D. #00270 - N.J. Stack # 020
Permit/Certificate #101386
Application Log 01903837
KA Job 225300

Dear Mr. Mikolajczyk and Mr. Sullivan:

We have received a letter from Mr. Byron Sullivan in regards to the above referenced permit. The letter requires Hexcel to conduct a stack test, as specified in the permit, on or before September 30, 1993. I would like to take this opportunity to apprise you of the background and current status of the above referenced project.

As you may be aware, the permitted equipment is a groundwater treatment system owned by Hexcel Corporation, located at the Fine Organics facility in Lodi, New Jersey. The groundwater treatment system has been installed in order to comply with the requirements of the Environmental Cleanup Responsible Act, now referred to as the Industrial Site Remediation Act (ISRA). The permitted stack belongs to a catalytic oxidizer, which controls emissions from an air stripper. The air stripper has been installed to remove volatile organic contaminants from influent streams consisting of: 1) groundwater seeping into and collecting in the basement of one of the buildings; and 2) groundwater pumped from recovery wells.

Since the installation of the groundwater treatment system, the system has been operated on an interim basis during which only the basement seepage water has been treated. The seepage water is treated at a frequency of about once a month. Full scale operation of the system, including pumping and treatment of groundwater from recovery wells, has been delayed due to difficulties in obtaining permits to discharge the treated effluent. Note that the primary influent stream is the groundwater that will be pumped from recovery wells. This stream is expected to total approximately 212,000 gallons over a 30-day period, while the basement seepage

totals less than 4000 gallons over the same period. Efforts to obtain a permit to discharge the treated effluent are continuing. The Division of Responsible Party Site Remediation requires Hexcel to commence full scale operation as soon as the requisite permit is obtained.

The Temporary Certificate to Operate issued by the Department was dated December 14, 1990. In letters addressed to Mr. Toby Hannah of the Bureau of New Source Review, dated January 21 and February 4, 1991, Ms. Renee van de Griend of Environ, on behalf of Hexcel, pointed out certain difficulties in the air permit conditions.

The most significant of these difficulties relates to Condition Number 2, which specifies a maximum pumping rate through the air stripper of 4.4 gpm. This maximum rate was apparently arrived at by the permit application reviewer, by dividing an expected volume of 6300 gallons per day (the volume of water which was expected to be pumped from the recovery wells) over a 24-hour period. Condition Number 3, which specifies maximum emissions (0.016 lbs/hr and 0.05 lbs/hr for TVOS and total volatiles respectively), coming out of the air stripper, was also arrived at by the Department by assuming 24-hour operation of the stripper. As pointed out in Ms. van de Griend's letters, and indicated on the application form VEM-004, while the rate of groundwater extraction is expected to be in the 4 to 5 gpm range, the treatment system will only be operated for 6 to 10 hours a day. This will result in a flow of about 15 gpm through the air strippers. In a letter dated March 22, 1991, the Bureau responded to the comments made by Hexcel regarding the permit conditions. This issue, however, was not addressed.

Furthermore, recent sampling results from the wells which will be pumped indicate that the level of contamination in the pumped groundwater influent will be somewhat higher than originally anticipated. Since full scale operation of the system, including groundwater recovery, has not yet begun, these permit conditions have not presented a problem so far. However, this discrepancy needs to be resolved in order for us to commence full scale operation. Additionally, as the current permit conditions do not allow the full scale operation of the system, we do not feel that a stack test would be appropriate at this time.

We would like to meet with the Department in order to discuss the changes required in the permit to reflect the actual processing parameters. We would also like to discuss the appropriateness of imposing conditions on the operation of the air stripper, which is not the control equipment being permitted. Additionally, we request that the Division of Facility Wide Enforcement suspend its requirement to perform a stack test before September 30, 1993, until such time that this meeting is held.

Killam
Associates :: Consulting Engineers

We will be available to discuss this matter at your convenience. If you have any questions or comments please feel free to call me at 201-912-2489, or Mr. Riaz Ahmed of this office at 201-912-2581.

Very truly yours,

KILLAM ASSOCIATES

Gary K. Walker

Gary K. Walker
Senior Project Scientist

cc: A. William Nosil, Hexcel
GKW:aa
bnsr0910

Killam
Associates ▫ Consulting Engineers

APPENDIX G

Groundwater Well Sampling Logs
July 27-28, 1993

883750040

WELL SAMPLING LOG

OWNER'S WELL NO.: MW - 1

CLIENT: Hexcel Corporation ETKA NO.: 225300

SITE LOCATION: Lodi, New Jersey DATE: 7/27/93

NJDEPE CASE NO.: 86009 NJDEPE WELL PERMIT NO.: 26-13571-0

WELL TYPE: Monitoring - 4 inch PVC

GEOLOGIC FORMATION: _____

ELEVATION-Top of Casing: 32.42 ft ELEVATION-Ground Surface: 29.03 ft

TOTAL WELL DEPTH FROM TOC: 23.27 ft DEPTH TO SCREEN FROM TOC: _____ ft

****

PURGE INFORMATION

DEPTH TO WATER FROM TOC: 10.63 ft ORGANIC VAPOR READINGS: 0 PPM

DEPTH TO FREE PRODUCT: NA ft FREE PRODUCT THICKNESS: NA ft

PURGE METHOD: Centrifugal Pump

ONE WELL VOLUME: 8.2 Gal TOTAL PURGE VOLUME: 25.0 Gal

PURGE TIME START: 09:25 PURGE TIME FINISH: 09:50

DTW AFTER PURGING: 17.73 ft PURGE RATE: 1.0 GPM

PURGE CHEMISTRIES:	TEMP(C)	Ph	COND(uS)	TDS
1ST VOL		11.0	510	410
2ND VOL		6.2	540	410
3RD VOL		6.8	530	410

SAMPLING INFORMATION:

SAMPLE NUMBER: 93-0727-01 SAMPLE METHOD Teflon Bailor

SAMPLE TIME START: 11:41

DTW BEFORE SAMPLING 10.73 ft DTW AFTER SAMPLING: 10.96 ft

SAMPLE CHEMISTRIES: TEMP.(C) 23.0° pH 8.0 COND(uS) 530 TDS 440

SAMPLE ANALYSIS: VOA + 15

FIELD PERSONNEL: Susan Waddell, George Spangenberg, Joe Cajiao, Inés Torres, Dan Flatin

OBSERVATIONS & COMMENTS: _____

883750041

WELL SAMPLING LOG

OWNER'S WELL NO.: MW - 2

CLIENT: Hexcel Corporation ETKA NO.: 225300

SITE LOCATION: Lodi, New Jersey DATE: 7/27/93

NJDEPE CASE NO.: 86009 NJDEPE WELL PERMIT NO.: 26-13572-8

WELL TYPE: Monitoring - 4 inch PVC

GEOLOGIC FORMATION:

ELEVATION-Top of Casing: 31.00 ft ELEVATION-Ground Surface: 27.90 ft

TOTAL WELL DEPTH FROM TOC: 10.16 ft DEPTH TO SCREEN FROM TOC: ____ ft

****

PURGE INFORMATION

DEPTH TO WATER FROM TOC: 8.89 ft ORGANIC VAPOR READINGS: 0 PPM

DEPTH TO FREE PRODUCT: NA ft FREE PRODUCT THICKNESS: NA ft

PURGE METHOD: Centrifugal Pump

ONE WELL VOLUME: 0.8 Gal TOTAL PURGE VOLUME: 2.0 Gal

PURGE TIME START: 12:08 PURGE TIME FINISH: 12:13

DTW AFTER PURGING: ____ ft PURGE RATE: 0.4 GPM

PURGE CHEMISTRIES:	TEMP(C)	Ph	COND(uS)	TDS
1ST VOL	31°	8.9	270	190
2ND VOL	29°	8.8	450	370
3RD VOL	---	---	---	---

SAMPLING INFORMATION:

SAMPLE NUMBER: 93-0727-02 SAMPLE METHOD Teflon Bailor

SAMPLE TIME START: 14:02

DTW BEFORE SAMPLING 9.72 ft DTW AFTER SAMPLING: 9.94 ft

SAMPLE CHEMISTRIES: TEMP.(C) 28.0° pH 8.2 COND(uS) 220 TDS 180

SAMPLE ANALYSIS: VOA + 15

FIELD PERSONNEL: Susan Waddell, George Spangenberg, Joe Cajiao, Inés Torres, Dan Flatin

OBSERVATIONS & COMMENTS: Well produced only two volumes.

883750042

WELL SAMPLING LOG

OWNER'S WELL NO.: MW - 3

CLIENT: Hexcel Corporation ETKA NO.: 225300

SITE LOCATION: Lodi, New Jersey DATE: 7/27/93

NJDEPE CASE NO.: 86009 NJDEPE WELL PERMIT NO.: 26-13573-6

WELL TYPE: Monitoring - 4 inch PVC

GEOLOGIC FORMATION:

ELEVATION-Top of Casing: 31.13 ft ELEVATION-Ground Surface: 27.84 ft

TOTAL WELL DEPTH FROM TOC: 30.50 ft DEPTH TO SCREEN FROM TOC: ____ ft

****

PURGE INFORMATION

DEPTH TO WATER FROM TOC: 11.03 ft ORGANIC VAPOR READINGS: 0 PPM

DEPTH TO FREE PRODUCT: NA ft FREE PRODUCT THICKNESS: NA ft

PURGE METHOD: Centrifugal Pump

ONE WELL VOLUME: 12.7 Gal TOTAL PURGE VOLUME: 38.0 Gal

PURGE TIME START: 11:36 PURGE TIME FINISH: 11:55

DTW AFTER PURGING: 19.82 ft PURGE RATE: 2.0 GPM

PURGE CHEMISTRIES:	TEMP(C)	Ph	COND(uS)	TDS
1ST VOL	22°	8.3	720	580
2ND VOL	20.5°	8.6	730	570
3RD VOL	20°	9.2	730	560

SAMPLING INFORMATION:

SAMPLE NUMBER: 93-0727-03 SAMPLE METHOD Teflon Bailor

SAMPLE TIME START: 13:33

DTW BEFORE SAMPLING 11.27 ft DTW AFTER SAMPLING: 11.38 ft

SAMPLE CHEMISTRIES: TEMP.(C) 28.0° pH 7.2 COND(uS) ___ TDS 560

SAMPLE ANALYSIS: VOA + 15

FIELD PERSONNEL: Susan Waddell, George Spangenberg, Joe Cajiao, Inés Torres, Dan Flatin

OBSERVATIONS & COMMENTS:

883750043

WELL SAMPLING LOG

OWNER'S WELL NO.: MW - 4

CLIENT: Hexcel Corporation ETKA NO.: 225300

SITE LOCATION: Lodi, New Jersey DATE: 7/27/93

NJDEPE CASE NO.: 86009 NJDEPE WELL PERMIT NO.: 26-13574-4

WELL TYPE: Monitoring - 4 inch PVC

GEOLOGIC FORMATION: _____

ELEVATION-Top of Casing: 32.28 ft ELEVATION-Ground Surface: 29.02 ft

TOTAL WELL DEPTH FROM TOC: 9.80 ft DEPTH TO SCREEN FROM TOC: _____ ft

****

PURGE INFORMATION

DEPTH TO WATER FROM TOC: 8.39 ft ORGANIC VAPOR READINGS: 50 PPM

DEPTH TO FREE PRODUCT: NA ft FREE PRODUCT THICKNESS: NA ft

PURGE METHOD: Centrifugal Pump

ONE WELL VOLUME: 0.9 Gal TOTAL PURGE VOLUME: 0.9 Gal

PURGE TIME START: 14:38 PURGE TIME FINISH: 14:40

DTW AFTER PURGING: 9.78 ft PURGE RATE: 0.5 GPM

PURGE CHEMISTRIES:	TEMP(C)	Ph	COND(uS)	TDS
1ST VOL	30°	7.2	>2000	>2000
2ND VOL	---	---	---	---
3RD VOL	---	---	---	---

SAMPLING INFORMATION:

SAMPLE NUMBER: 93-0727-04 SAMPLE METHOD Teflon Bailor

SAMPLE TIME START: 16:39

DTW BEFORE SAMPLING 9.19 ft DTW AFTER SAMPLING: _____ ft

SAMPLE CHEMISTRIES: TEMP.(C) ___° pH 7.5 COND(uS) >2000 TDS >2000

SAMPLE ANALYSIS: VOA + 15

FIELD PERSONNEL: Susan Waddell, George Spangenberg, Joe Cajiao, Inés Torres, Dan Flatin

OBSERVATIONS & COMMENTS: Well produced only one volume.

883750044

WELL SAMPLING LOG

OWNER'S WELL NO.: MW - 5

CLIENT: Hexcel Corporation ETKA NO.: 225300

SITE LOCATION: Lodi, New Jersey DATE: 7/27/93

NJDEPE CASE NO.: 86009 NJDEPE WELL PERMIT NO.: 26-13575-2

WELL TYPE: Monitoring - 4 inch PVC

GEOLOGIC FORMATION: _____

ELEVATION-Top of Casing: 32.50 ft ELEVATION-Ground Surface: 29.03 ft

TOTAL WELL DEPTH FROM TOC: 28.18 ft DEPTH TO SCREEN FROM TOC: _____ ft

****

PURGE INFORMATION

DEPTH TO WATER FROM TOC: 11.90 ft ORGANIC VAPOR READINGS: 0 PPM

DEPTH TO FREE PRODUCT: NA ft FREE PRODUCT THICKNESS: NA ft

PURGE METHOD: Centrifugal Pump

ONE WELL VOLUME: 10.6 Gal TOTAL PURGE VOLUME: 36.0 Gal

PURGE TIME START: 14:43 PURGE TIME FINISH: 15:01

DTW AFTER PURGING: 21.70 ft PURGE RATE: 2.0 GPM

PURGE CHEMISTRIES:	TEMP(C)	Ph	COND(uS)	TDS
1ST VOL	19°	7.7		840
2ND VOL	19°	8.0	640	620
3RD VOL	19°	7.8	580	570

SAMPLING INFORMATION:

SAMPLE NUMBER: 93-0727-05 SAMPLE METHOD Teflon Bailor

SAMPLE TIME START: 15:22

DTW BEFORE SAMPLING 11.91 ft DTW AFTER SAMPLING: 11.96 ft

SAMPLE CHEMISTRIES: TEMP.(C) ° pH 8.4 COND(uS) 520 TDS 510

SAMPLE ANALYSIS: VOA + 15

FIELD PERSONNEL: Susan Waddell, George Spangenberg, Joe Cajiao, Inés Torres, Dan Flatin

OBSERVATIONS & COMMENTS: _____

883750045

WELL SAMPLING LOG

OWNER'S WELL NO.: MW - 6

CLIENT: Hexcel Corporation ETKA NO.: 225300

SITE LOCATION: Lodi, New Jersey DATE: 7/28/93

NJDEPE CASE NO.: 86009 NJDEPE WELL PERMIT NO.: 26-13576-1

WELL TYPE: Monitoring - 4 inch PVC

GEOLOGIC FORMATION: _____

ELEVATION-Top of Casing: 30.70 ft ELEVATION-Ground Surface: 27.14 ft

TOTAL WELL DEPTH FROM TOC: 18.60 ft DEPTH TO SCREEN FROM TOC: _____ ft

****

PURGE INFORMATION

DEPTH TO WATER FROM TOC: 10.43 ft ORGANIC VAPOR READINGS: 0 PPM

DEPTH TO FREE PRODUCT: 17.56 ft FREE PRODUCT THICKNESS: 1.04 ft

PURGE METHOD: Centrifugal Pump

ONE WELL VOLUME: 5.3 Gal TOTAL PURGE VOLUME: 17.0 Gal

PURGE TIME START: 10:32 PURGE TIME FINISH: 10:38

DTW AFTER PURGING: 16.35 ft PURGE RATE: 2.8 GPM

PURGE CHEMISTRIES:	TEMP(C)	Ph	COND(uS)	TDS
1ST VOL	22°	6.5	1570	1030
2ND VOL	23°	6.7	1520	1090
3RD VOL	24°	6.6	1450	1030

SAMPLING INFORMATION:

SAMPLE NUMBER: 93-0728-06 SAMPLE METHOD Teflon Bailor

SAMPLE TIME START: 12:04

DTW BEFORE SAMPLING 10.44 ft DTW AFTER SAMPLING: 10.89 ft

SAMPLE CHEMISTRIES: TEMP.(C) 25.0° pH 6.5 COND(uS) 1630 TDS 900

SAMPLE ANALYSIS: VOA + 15

FIELD PERSONNEL: Susan Waddell, George Spangenberg, Joe Cajiao, Inés Torres, Dan Flatin

OBSERVATIONS & COMMENTS: _____

883750046

WELL SAMPLING LOG

OWNER'S WELL NO.: MW - 7

CLIENT: Hexcel Corporation ETKA NO.: 225300

SITE LOCATION: Lodi, New Jersey DATE: 7/28/93

NJDEPE CASE NO.: 86009 NJDEPE WELL PERMIT NO.: 26-13577-9

WELL TYPE: Monitoring - 4 inch PVC

GEOLOGIC FORMATION: _____

ELEVATION-Top of Casing: 30.68 ft ELEVATION-Ground Surface: 27.18 ft

TOTAL WELL DEPTH FROM TOC: 32.66 ft DEPTH TO SCREEN FROM TOC: _____ ft

****

PURGE INFORMATION

DEPTH TO WATER FROM TOC: 10.41 ft ORGANIC VAPOR READINGS: 0 PPM

DEPTH TO FREE PRODUCT: NA ft FREE PRODUCT THICKNESS: NA ft

PURGE METHOD: Centrifugal Pump

ONE WELL VOLUME: 14.4 Gal TOTAL PURGE VOLUME: 44.0 Gal

PURGE TIME START: 09:44 PURGE TIME FINISH: 09:56

DTW AFTER PURGING: 10.84 ft PURGE RATE: 3.7 GPM

PURGE CHEMISTRIES:	TEMP(C)	Ph	COND(uS)	TDS
1ST VOL	19°	6.8	780	520
2ND VOL	19°	6.8	870	520
3RD VOL	18°	6.7	770	410

SAMPLING INFORMATION:

SAMPLE NUMBER: 93-0728-07 SAMPLE METHOD Teflon Bailor

SAMPLE TIME START: 11:56

DTW BEFORE SAMPLING 10.43 ft DTW AFTER SAMPLING: 10.53 ft

SAMPLE CHEMISTRIES: TEMP.(C) 24.0° pH 6.9 COND(uS) 900 TDS 430

SAMPLE ANALYSIS: VOA + 15

FIELD PERSONNEL: Susan Waddell, George Spangenberg, Joe Cajiao, Inés Torres, Dan Flatin

OBSERVATIONS & COMMENTS: _____

883750047

WELL SAMPLING LOG

OWNER'S WELL NO.: MW - 8

CLIENT: Hexcel Corporation ETKA NO.: 225300

SITE LOCATION: Lodi, New Jersey DATE: 7/28/93

NJDEPE CASE NO.: 86009 NJDEPE WELL PERMIT NO.: 26-13578-7

WELL TYPE: Monitoring - 4 inch PVC

GEOLOGIC FORMATION:

ELEVATION-Top of Casing: 30.26 ft ELEVATION-Ground Surface: 26.92 ft

TOTAL WELL DEPTH FROM TOC: 17.12 ft DEPTH TO SCREEN FROM TOC: ____ ft

****

PURGE INFORMATION

DEPTH TO WATER FROM TOC: 12.19 ft ORGANIC VAPOR READINGS: 0 PPM

DEPTH TO FREE PRODUCT: 15.62 ft FREE PRODUCT THICKNESS: 1.5 ft

PURGE METHOD: Centrifugal Pump

ONE WELL VOLUME: 3.2 Gal TOTAL PURGE VOLUME: 9.25 Gal

PURGE TIME START: 14:02 PURGE TIME FINISH: 14:20

DTW AFTER PURGING: 13.97 ft PURGE RATE: 0.5 GPM

PURGE CHEMISTRIES:	TEMP(C)	Ph	COND(uS)	TDS
1ST VOL	23°	6.3	1160	780
2ND VOL	23°	6.2	1180	830
3RD VOL	20°	6.2	1230	950

SAMPLING INFORMATION:

SAMPLE NUMBER: 93-0728-08 SAMPLE METHOD Teflon Bailor

SAMPLE TIME START: 15:13

DTW BEFORE SAMPLING 12.32 ft DTW AFTER SAMPLING: 13.69 ft

SAMPLE CHEMISTRIES: TEMP.(C) 22.0° pH 6.2 COND(uS) 1250 TDS 890

SAMPLE ANALYSIS: VOA + 15

FIELD PERSONNEL: Susan Waddell, George Spangenberg, Joe Cajiao, Inés Torres, Dan Flatin

OBSERVATIONS & COMMENTS:

883750048

WELL SAMPLING LOG

OWNER'S WELL NO.: MW - 10

CLIENT: Hexcel Corporation ETKA NO.: 225300

SITE LOCATION: Lodi, New Jersey DATE: 7/28/93

NJDEPE CASE NO.: 86009 NJDEPE WELL PERMIT NO.: 26-13580-9

WELL TYPE: Monitoring - 4 inch PVC

GEOLOGIC FORMATION:

ELEVATION-Top of Casing: 30.83 ft ELEVATION-Ground Surface: 27.33 ft

TOTAL WELL DEPTH FROM TOC: 16.98 ft DEPTH TO SCREEN FROM TOC: ____ ft

****

PURGE INFORMATION

DEPTH TO WATER FROM TOC: 12.76 ft ORGANIC VAPOR READINGS: 0 PPM

DEPTH TO FREE PRODUCT: NA ft FREE PRODUCT THICKNESS: NA ft

PURGE METHOD: Centrifugal Pump

ONE WELL VOLUME: 2.7 Gal TOTAL PURGE VOLUME: 10.0 Gal

PURGE TIME START: 09:23 PURGE TIME FINISH: 09:31

DTW AFTER PURGING: 16.67 ft PURGE RATE: 1.3 GPM

PURGE CHEMISTRIES:	TEMP(C)	Ph	COND(uS)	TDS
1ST VOL	19°	6.6	>2000	990
2ND VOL	18°	6.5	>2000	1210
3RD VOL	19°	6.5	>2000	1180

SAMPLING INFORMATION:

SAMPLE NUMBER: 93-0728-10 SAMPLE METHOD Teflon Bailor

SAMPLE TIME START: 11:30

DTW BEFORE SAMPLING 12.75 ft DTW AFTER SAMPLING: 12.80 ft

SAMPLE CHEMISTRIES: TEMP.(C) 19° pH 6.1 COND(uS) 1380 TDS 1240

SAMPLE ANALYSIS: VOA + 15

FIELD PERSONNEL: Susan Waddell, George Spangenberg, Joe Cajiao, Inés Torres, Dan Flatin

OBSERVATIONS & COMMENTS:

883750049

WELL SAMPLING LOG

OWNER'S WELL NO.: MW - 9

CLIENT: Hexcel Corporation ETKA NO.: 225300

SITE LOCATION: Lodi, New Jersey DATE: 7/28/93

NJDEPE CASE NO.: 86009 NJDEPE WELL PERMIT NO.: 26-13579-5

WELL TYPE: Monitoring - 4 inch PVC

GEOLOGIC FORMATION:

ELEVATION-Top of Casing: 29.83 ft ELEVATION-Ground Surface: 26.89 ft

TOTAL WELL DEPTH FROM TOC: 29.52 ft DEPTH TO SCREEN FROM TOC: ____ ft

****

PURGE INFORMATION

DEPTH TO WATER FROM TOC: 9.56 ft ORGANIC VAPOR READINGS: 0 PPM

DEPTH TO FREE PRODUCT: NA ft FREE PRODUCT THICKNESS: NA ft

PURGE METHOD: Centrifugal Pump

ONE WELL VOLUME: 13.0 Gal TOTAL PURGE VOLUME: 41.0 Gal

PURGE TIME START: 14:25 PURGE TIME FINISH: 14:36

DTW AFTER PURGING: 11.92 ft PURGE RATE: 8.2 GPM

PURGE CHEMISTRIES:	TEMP(C)	Ph	COND(uS)	TDS
1ST VOL	19°	6.9	640	440
2ND VOL	19°	6.8	660	450
3RD VOL	18.5°	6.9	680	440

SAMPLING INFORMATION:

SAMPLE NUMBER: 93-0728-09 SAMPLE METHOD Teflon Bailor

SAMPLE TIME START: 14:56

DTW BEFORE SAMPLING 9.68 ft DTW AFTER SAMPLING: 9.72 ft

SAMPLE CHEMISTRIES: TEMP.(C) 24.0° pH 7.6 COND(uS) 660 TDS 400

SAMPLE ANALYSIS: VOA + 15

FIELD PERSONNEL: Susan Waddell, George Spangenberg, Joe Cajiao, Inés Torres, Dan Flatin

OBSERVATIONS & COMMENTS:

883750050

WELL SAMPLING LOG

OWNER'S WELL NO.: MW - 11

CLIENT: Hexcel Corporation ETKA NO.: 225300

SITE LOCATION: Lodi, New Jersey DATE: 7/28/93

NJDEPE CASE NO.: 86009 NJDEPE WELL PERMIT NO.: 26-13566-3

WELL TYPE: Monitoring - 4 inch PVC

GEOLOGIC FORMATION: _____

ELEVATION-Top of Casing: 30.78 ft ELEVATION-Ground Surface: 27.28 ft

TOTAL WELL DEPTH FROM TOC: 33.64 ft DEPTH TO SCREEN FROM TOC: _____ ft

****

PURGE INFORMATION

DEPTH TO WATER FROM TOC: 10.77 ft ORGANIC VAPOR READINGS: 0 PPM

DEPTH TO FREE PRODUCT: NA ft FREE PRODUCT THICKNESS: NA ft

PURGE METHOD: Centrifugal Pump

ONE WELL VOLUME: 14.8 Gal TOTAL PURGE VOLUME: 47.0 Gal

PURGE TIME START: 09:34 PURGE TIME FINISH: 10:01

DTW AFTER PURGING: 10.74 ft PURGE RATE: 1.75 GPM

PURGE CHEMISTRIES:	TEMP(C)	Ph	COND(uS)	TDS
1ST VOL	17°	7.3		380
2ND VOL	17°	7.1	560	350
3RD VOL	17°	7.2	570	340

SAMPLING INFORMATION:

SAMPLE NUMBER: 93-0728-11 SAMPLE METHOD Teflon Bailor

SAMPLE TIME START: 11:37

DTW BEFORE SAMPLING 10.83 ft DTW AFTER SAMPLING: 10.86 ft

SAMPLE CHEMISTRIES: TEMP.(C) 20° pH 6.6 COND(uS) 500 TDS 340

SAMPLE ANALYSIS: VOA + 15

FIELD PERSONNEL: Susan Waddell, George Spangenberg, Joe Cajiao, Inés Torres, Dan Flatin

OBSERVATIONS & COMMENTS: _____

883750051

WELL SAMPLING LOG

OWNER'S WELL NO.: MW - 12

CLIENT: Hexcel Corporation ETKA NO.: 225300

SITE LOCATION: Lodi, New Jersey DATE: 7/28/93

NJDEPE CASE NO.: 86009 NJDEPE WELL PERMIT NO.: 26-135767-1

WELL TYPE: Monitoring - 4 inch PVC

GEOLOGIC FORMATION:

ELEVATION-Top of Casing: 31.01 ft ELEVATION-Ground Surface: 27.62 ft

TOTAL WELL DEPTH FROM TOC: 17.05 ft DEPTH TO SCREEN FROM TOC: ____ ft

****

PURGE INFORMATION

DEPTH TO WATER FROM TOC: 10.82 ft ORGANIC VAPOR READINGS: 0 PPM

DEPTH TO FREE PRODUCT: NA ft FREE PRODUCT THICKNESS: NA ft

PURGE METHOD: Centrifugal Pump

ONE WELL VOLUME: 4.0 Gal TOTAL PURGE VOLUME: 4.0 Gal

PURGE TIME START: 10:49 PURGE TIME FINISH: 10:54

DTW AFTER PURGING: 16.95 ft PURGE RATE: 0.8 GPM

PURGE CHEMISTRIES:	TEMP(C)	Ph	COND(uS)	TDS
1ST VOL	23°	5.5	560	310
2ND VOL	---	---	---	---
3RD VOL	---	---	---	---

SAMPLING INFORMATION:

SAMPLE NUMBER: 93-0728-12 SAMPLE METHOD Teflon Bailor

SAMPLE TIME START: 12:27

DTW BEFORE SAMPLING 14.42 ft DTW AFTER SAMPLING: 14.55 ft

SAMPLE CHEMISTRIES: TEMP.(C) 22.0° pH 5.4 COND(uS) 510 TDS 170

SAMPLE ANALYSIS: VOA + 15

FIELD PERSONNEL: Susan Waddell, George Spangenberg, Joe Cajiao, Inés Torres, Dan Flatin

OBSERVATIONS & COMMENTS: Well produced only one volume.

883750052

WELL SAMPLING LOG

OWNER'S WELL NO.: MW - 13

CLIENT: Hexcel Corporation ETKA NO.: 225300

SITE LOCATION: Lodi, New Jersey DATE: 7/28/93

NJDEPE CASE NO.: 86009 NJDEPE WELL PERMIT NO.: 26-13568-0

WELL TYPE: Monitoring - 4 inch PVC

GEOLOGIC FORMATION: _____

ELEVATION-Top of Casing: 31.16 ft ELEVATION-Ground Surface: 27.63 ft

TOTAL WELL DEPTH FROM TOC: 32.92 ft DEPTH TO SCREEN FROM TOC: _____ ft

****

PURGE INFORMATION

DEPTH TO WATER FROM TOC: 10.42 ft ORGANIC VAPOR READINGS: 0 PPM

DEPTH TO FREE PRODUCT: NA ft FREE PRODUCT THICKNESS: NA ft

PURGE METHOD: Centrifugal Pump

ONE WELL VOLUME: 14.5 Gal TOTAL PURGE VOLUME: 45.0 Gal

PURGE TIME START: 10:59 PURGE TIME FINISH: 11:16

DTW AFTER PURGING: 15.10 ft PURGE RATE: 2.6 GPM

PURGE CHEMISTRIES:	TEMP(C)	Ph	COND(uS)	TDS
1ST VOL	21°	6.9	840	490
2ND VOL	21°	6.8	770	490
3RD VOL	21°	6.8	810	380

SAMPLING INFORMATION:

SAMPLE NUMBER: 93-0728-13 SAMPLE METHOD Teflon Bailor

SAMPLE TIME START: 12:22

DTW BEFORE SAMPLING 10.45 ft DTW AFTER SAMPLING: 10.49 ft

SAMPLE CHEMISTRIES: TEMP.(C) 24.0° pH 7.0 COND(uS) 880 TDS 410

SAMPLE ANALYSIS: VOA + 15

FIELD PERSONNEL: Susan Waddell, George Spangenberg, Joe Cajiao, Inés Torres, Dan Flatin

OBSERVATIONS & COMMENTS: _____

883750053

WELL SAMPLING LOG

OWNER'S WELL NO.: MW - 16

CLIENT: Hexcel Corporation ETKA NO.: 225300

SITE LOCATION: Lodi, New Jersey DATE: 7/28/93

NJDEPE CASE NO.: 86009 NJDEPE WELL PERMIT NO.: 26-13599-0

WELL TYPE: Monitoring - 4 inch PVC

GEOLOGIC FORMATION: _____

ELEVATION-Top of Casing: 29.69 ft ELEVATION-Ground Surface: 26.71 ft

TOTAL WELL DEPTH FROM TOC: 12.80 ft DEPTH TO SCREEN FROM TOC: _____ ft

****

PURGE INFORMATION

DEPTH TO WATER FROM TOC: 7.84 ft ORGANIC VAPOR READINGS: 0 PPM

DEPTH TO FREE PRODUCT: NA ft FREE PRODUCT THICKNESS: NA ft

PURGE METHOD: Centrifugal Pump

ONE WELL VOLUME: 3.2 Gal TOTAL PURGE VOLUME: 10.0 Gal

PURGE TIME START: 12:15 PURGE TIME FINISH: 12:33

DTW AFTER PURGING: 11.86 ft PURGE RATE: 0.6 GPM

PURGE CHEMISTRIES:	TEMP(C)	Ph	COND(uS)	TDS
1ST VOL	30°	7.3	600	370
2ND VOL	30°	7.5	620	370
3RD VOL	31°	7.7	630	380

SAMPLING INFORMATION:

SAMPLE NUMBER: 93-0728-16 SAMPLE METHOD Teflon Bailor

SAMPLE TIME START: 14:22

DTW BEFORE SAMPLING 8.46 ft DTW AFTER SAMPLING: 8.61 ft

SAMPLE CHEMISTRIES: TEMP.(C) 28° pH 7.7 COND(uS) 620 TDS 380

SAMPLE ANALYSIS: VOA + 15

FIELD PERSONNEL: Susan Waddell, George Spangenberg, Joe Cajiao, Inés Torres, Dan Flatin

OBSERVATIONS & COMMENTS: _____

883750054

WELL SAMPLING LOG

OWNER'S WELL NO.: MW - 17

CLIENT: Hexcel Corporation ETKA NO.: 225300

SITE LOCATION: Lodi, New Jersey DATE: 7/27/93

NJDEPE CASE NO.: 86009 NJDEPE WELL PERMIT NO.: 25-15216-9

WELL TYPE: Monitoring - 4 inch PVC

GEOLOGIC FORMATION: _____

ELEVATION-Top of Casing: 31.53 ft ELEVATION-Ground Surface: 29.10 ft

TOTAL WELL DEPTH FROM TOC: 13.98 ft DEPTH TO SCREEN FROM TOC: _____ ft

****

PURGE INFORMATION

DEPTH TO WATER FROM TOC: 9.82 ft ORGANIC VAPOR READINGS: 210 PPM

DEPTH TO FREE PRODUCT: NA ft FREE PRODUCT THICKNESS: NA ft

PURGE METHOD: Centrifugal Pump

ONE WELL VOLUME: 2.7 Gal TOTAL PURGE VOLUME: 9.5 Gal

PURGE TIME START: 09:56 PURGE TIME FINISH: 10:10

DTW AFTER PURGING: 13.89 ft PURGE RATE: 0.7 GPM

PURGE CHEMISTRIES:	TEMP(C)	Ph	COND(uS)	TDS
1ST VOL		6.4	>2000	1700
2ND VOL		6.1	1470	1170
3RD VOL		6.2	1580	1260

SAMPLING INFORMATION:

SAMPLE NUMBER: 93-0727-17 SAMPLE METHOD Teflon Bailor

SAMPLE TIME START: 12:09

DTW BEFORE SAMPLING 9.83 ft DTW AFTER SAMPLING: 10.27 ft

SAMPLE CHEMISTRIES: TEMP.(C) 25.5° pH 9.2 COND(uS) ___ TDS 1080

SAMPLE ANALYSIS: VOA + 15

FIELD PERSONNEL: Susan Waddell, George Spangenberg, Joe Cajiao, Inés Torres, Dan Flatin

OBSERVATIONS & COMMENTS: _____

883750055

WELL SAMPLING LOG

OWNER'S WELL NO.: MW - 18

CLIENT: Hexcel Corporation ETKA NO.: 225300

SITE LOCATION: Lodi, New Jersey DATE: 7/27/93

NJDEPE CASE NO.: 86009 NJDEPE WELL PERMIT NO.: 26-13601-5

WELL TYPE: Monitoring - 4 inch PVC

GEOLOGIC FORMATION:

ELEVATION-Top of Casing: 32.23 ft ELEVATION-Ground Surface: 29.04 ft

TOTAL WELL DEPTH FROM TOC: 11.23 ft DEPTH TO SCREEN FROM TOC: ____ ft

****

PURGE INFORMATION

DEPTH TO WATER FROM TOC: 9.71 ft ORGANIC VAPOR READINGS: 220 PPM

DEPTH TO FREE PRODUCT: NA ft FREE PRODUCT THICKNESS: NA ft

PURGE METHOD: Centrifugal Pump

ONE WELL VOLUME: 1.0 Gal TOTAL PURGE VOLUME: 3.0 Gal

PURGE TIME START: 11:14 PURGE TIME FINISH: 11:20

DTW AFTER PURGING: 10.63 ft PURGE RATE: 0.5 GPM

PURGE CHEMISTRIES:	TEMP(C)	Ph	COND(uS)	TDS
1ST VOL	26°	7.2	>2000	1770
2ND VOL	26°	7.2	>2000	1830
3RD VOL	25°	6.9	>2000	1860

SAMPLING INFORMATION:

SAMPLE NUMBER: 93-0727-18 SAMPLE METHOD Teflon Bailor

SAMPLE TIME START: 13:19

DTW BEFORE SAMPLING 9.77 ft DTW AFTER SAMPLING: 9.83 ft

SAMPLE CHEMISTRIES: TEMP.(C) 27.0° pH 7.0 COND(uS) >2000 TDS 1740

SAMPLE ANALYSIS: VOA + 15

FIELD PERSONNEL: Susan Waddell, George Spangenberg, Joe Cajiao, Inés Torres, Dan Flatin

OBSERVATIONS & COMMENTS:

883750056

WELL SAMPLING LOG

OWNER'S WELL NO.: MW - 20

CLIENT: Hexcel Corporation ETKA NO.: 225300

SITE LOCATION: Lodi, New Jersey DATE: 7/27/93

NJDEPE CASE NO.: 86009 NJDEPE WELL PERMIT NO.: _____

WELL TYPE: Monitoring - 4 inch PVC

GEOLOGIC FORMATION: _____

ELEVATION-Top of Casing: 27.95 ft ELEVATION-Ground Surface: 28.50 ft

TOTAL WELL DEPTH FROM TOC: 19.68 ft DEPTH TO SCREEN FROM TOC: _____ ft

****

PURGE INFORMATION

DEPTH TO WATER FROM TOC: 5.70 ft ORGANIC VAPOR READINGS: 0 PPM

DEPTH TO FREE PRODUCT: NA ft FREE PRODUCT THICKNESS: NA ft

PURGE METHOD: Centrifugal Pump

ONE WELL VOLUME: 9.1 Gal TOTAL PURGE VOLUME: 12.0 Gal

PURGE TIME START: 15:50 PURGE TIME FINISH: 15:54

DTW AFTER PURGING: 17.80 ft PURGE RATE: 3.0 GPM

PURGE CHEMISTRIES:	TEMP(C)	Ph	COND(uS)	TDS
1ST VOL	_____	8.2	410	390
2ND VOL	---	---	---	---
3RD VOL	---	---	---	---

SAMPLING INFORMATION:

SAMPLE NUMBER: 93-0727-20 SAMPLE METHOD Teflon Bailor

SAMPLE TIME START: 16:58

DTW BEFORE SAMPLING 13.44 ft DTW AFTER SAMPLING: 13.63 ft

SAMPLE CHEMISTRIES: TEMP.(C) ___ ° pH 9.1 COND(uS) 430 TDS 410

SAMPLE ANALYSIS: VOA + 15

FIELD PERSONNEL: Susan Waddell, George Spangenberg, Joe Cajiao, Inés Torres, Dan Flatin

OBSERVATIONS & COMMENTS: Well produced only one volume.

883750057

WELL SAMPLING LOG

OWNER'S WELL NO.: MW - 21

CLIENT: Hexcel Corporation ETKA NO.: 225300

SITE LOCATION: Lodi, New Jersey DATE: 7/27/93

NJDEPE CASE NO.: 86009 NJDEPE WELL PERMIT NO.: 26-22102-1

WELL TYPE: Monitoring - 4 inch PVC

GEOLOGIC FORMATION:

ELEVATION-Top of Casing: 30.67 ft ELEVATION-Ground Surface: 28.80 ft

TOTAL WELL DEPTH FROM TOC: 14.98 ft DEPTH TO SCREEN FROM TOC: ____ ft

****

PURGE INFORMATION

DEPTH TO WATER FROM TOC: 9.13 ft ORGANIC VAPOR READINGS: 0 PPM

DEPTH TO FREE PRODUCT: NA ft FREE PRODUCT THICKNESS: NA ft

PURGE METHOD: Centrifugal Pump

ONE WELL VOLUME: 3.8 Gal TOTAL PURGE VOLUME: 9.0 Gal

PURGE TIME START: 15:14 PURGE TIME FINISH: 15:22

DTW AFTER PURGING: 13.55 ft PURGE RATE: 1.1 GPM

PURGE CHEMISTRIES:	TEMP(C)	Ph	COND(uS)	TDS
1ST VOL	20°	8.4	480	470
2ND VOL	20°	8.1	750	750
3RD VOL	---	---	---	---

SAMPLING INFORMATION:

SAMPLE NUMBER: 93-0727-21 SAMPLE METHOD Teflon Bailor

SAMPLE TIME START: 16:22

DTW BEFORE SAMPLING 10.49 ft DTW AFTER SAMPLING: 10.83 ft

SAMPLE CHEMISTRIES: TEMP.(C) ___° pH 8.3 COND(uS) ___ TDS 660

SAMPLE ANALYSIS: VOA + 15

FIELD PERSONNEL: Susan Waddell, George Spangenberg, Joe Cajiao, Inés Torres, Dan Flatin

OBSERVATIONS & COMMENTS: Well produced only two volumes.

883750058

WELL SAMPLING LOG

OWNER'S WELL NO.: MW - 22

CLIENT: Hexcel Corporation ETKA NO.: 225300

SITE LOCATION: Lodi, New Jersey DATE: 7/27/93

NJDEPE CASE NO.: 86009 NJDEPE WELL PERMIT NO.: _____

WELL TYPE: Monitoring - 4 inch PVC

GEOLOGIC FORMATION: _____

ELEVATION-Top of Casing: 28.36 ft ELEVATION-Ground Surface: 28.73 ft

TOTAL WELL DEPTH FROM TOC: 8.36 ft DEPTH TO SCREEN FROM TOC: _____ ft

****

PURGE INFORMATION

DEPTH TO WATER FROM TOC: 6.33 ft ORGANIC VAPOR READINGS: 210 PPM

DEPTH TO FREE PRODUCT: NA ft FREE PRODUCT THICKNESS: NA ft

PURGE METHOD: Centrifugal Pump

ONE WELL VOLUME: 1.3 Gal TOTAL PURGE VOLUME: 2.5 Gal

PURGE TIME START: 10:33 PURGE TIME FINISH: 10:47

DTW AFTER PURGING: 7.88 ft PURGE RATE: 0.3 GPM

PURGE CHEMISTRIES:	TEMP(C)	Ph	COND(uS)	TDS
1ST VOL	____	5.7	>2000	>2000
2ND VOL	25.5°	5.4	>2000	1230
3RD VOL	---	---	---	---

SAMPLING INFORMATION:

SAMPLE NUMBER: 93-0727-22 SAMPLE METHOD Teflon Bailor

SAMPLE TIME START: 12:46

DTW BEFORE SAMPLING 7.50 ft DTW AFTER SAMPLING: 7.86 ft

SAMPLE CHEMISTRIES: TEMP.(C) 26.0° pH 7.0 COND(uS) >2000 TDS >2000

SAMPLE ANALYSIS: VOA + 15

FIELD PERSONNEL: Susan Waddell, George Spangenberg, Joe Cajiao, Inés Torres, Dan Flatin

OBSERVATIONS & COMMENTS: Well produced only two volumes.

883750059

WELL SAMPLING LOG

OWNER'S WELL NO.: MW - 24

CLIENT: Hexcel Corporation ETKA NO.: 225300

SITE LOCATION: Lodi, New Jersey DATE: 7/28/93

NJDEPE CASE NO.: 86009 NJDEPE WELL PERMIT NO.: 26-22681-2

WELL TYPE: Monitoring - 4 inch PVC

GEOLOGIC FORMATION: _____

ELEVATION-Top of Casing: 26.12 ft ELEVATION-Ground Surface: 26.93 ft

TOTAL WELL DEPTH FROM TOC: 9.67 ft DEPTH TO SCREEN FROM TOC: _____ ft

****

PURGE INFORMATION

DEPTH TO WATER FROM TOC: 4.24 ft ORGANIC VAPOR READINGS: 1 PPM

DEPTH TO FREE PRODUCT: NA ft FREE PRODUCT THICKNESS: NA ft

PURGE METHOD: Centrifugal Pump

ONE WELL VOLUME: 3.5 Gal TOTAL PURGE VOLUME: 11.0 Gal

PURGE TIME START: 13:35 PURGE TIME FINISH: 14:10

DTW AFTER PURGING: 8.65 ft PURGE RATE: 0.3 GPM

PURGE CHEMISTRIES:	TEMP(C)	Ph	COND(uS)	TDS
1ST VOL	28°	6.1	760	580
2ND VOL	27°	6.2	1370	1730
3RD VOL	28°	6.2	1430	1510

SAMPLING INFORMATION:

SAMPLE NUMBER: 93-0728-24 SAMPLE METHOD Teflon Bailor

SAMPLE TIME START: 15:18

DTW BEFORE SAMPLING 7.44 ft DTW AFTER SAMPLING: 7.50 ft

SAMPLE CHEMISTRIES: TEMP.(C) 29° pH 6.3 COND(uS) 1330 TDS 1380

SAMPLE ANALYSIS: VOA + 15

FIELD PERSONNEL: Susan Waddell, George Spangenberg, Joe Cajiao, Inés Torres, Dan Flatin

OBSERVATIONS & COMMENTS: _____

883750060

WELL SAMPLING LOG

OWNER'S WELL NO.: MW - 25

CLIENT: Hexcel Corporation ETKA NO.: 225300

SITE LOCATION: Lodi, New Jersey DATE: 7/28/93

NJDEPE CASE NO.: 86009 NJDEPE WELL PERMIT NO.: _____

WELL TYPE: Monitoring - 4 inch PVC

GEOLOGIC FORMATION: _____

ELEVATION-Top of Casing: 26.03 ft ELEVATION-Ground Surface: 26.47 ft

TOTAL WELL DEPTH FROM TOC: 12.74 ft DEPTH TO SCREEN FROM TOC: _____ ft

****

PURGE INFORMATION

DEPTH TO WATER FROM TOC: 7.57 ft ORGANIC VAPOR READINGS: 2 PPM

DEPTH TO FREE PRODUCT: NA ft FREE PRODUCT THICKNESS: NA ft

PURGE METHOD: Centrifugal Pump

ONE WELL VOLUME: 3.5 Gal TOTAL PURGE VOLUME: 10.0 Gal

PURGE TIME START: 14:19 PURGE TIME FINISH: 14:37

DTW AFTER PURGING: 8.93 ft PURGE RATE: 0.6 GPM

PURGE CHEMISTRIES:	TEMP(C)	Ph	COND(uS)	TDS
1ST VOL	27.5°	6.3	1650	1410
2ND VOL	29°	6.3	1620	1370
3RD VOL	29°	6.2	1640	1380

SAMPLING INFORMATION:

SAMPLE NUMBER: 93-0728-25 SAMPLE METHOD Teflon Bailor

SAMPLE TIME START: 15:05

DTW BEFORE SAMPLING 7.65 ft DTW AFTER SAMPLING: 7.68 ft

SAMPLE CHEMISTRIES: TEMP.(C) 28° pH 6.4 COND(uS) 1320 TDS 1080

SAMPLE ANALYSIS: VOA + 15

FIELD PERSONNEL: Susan Waddell, George Spangenberg, Joe Cajiao, Inés Torres, Dan Flatin

OBSERVATIONS & COMMENTS: _____

883750061

WELL SAMPLING LOG

OWNER'S WELL NO.: MW - 28

CLIENT: Hexcel Corporation ETKA NO.: 225300

SITE LOCATION: Lodi, New Jersey DATE: 7/28/93

NJDEPE CASE NO.: 86009 NJDEPE WELL PERMIT NO.: 26-22103-9

WELL TYPE: Monitoring - 4 inch PVC

GEOLOGIC FORMATION:

ELEVATION-Top of Casing: 29.68 ft ELEVATION-Ground Surface: 27.50 ft

TOTAL WELL DEPTH FROM TOC: 14.86 ft DEPTH TO SCREEN FROM TOC: ____ ft

****

PURGE INFORMATION

DEPTH TO WATER FROM TOC: 10.97 ft ORGANIC VAPOR READINGS: 0 PPM

DEPTH TO FREE PRODUCT: NA ft FREE PRODUCT THICKNESS: NA ft

PURGE METHOD: Centrifugal Pump

ONE WELL VOLUME: 2.5 Gal TOTAL PURGE VOLUME: 8.0 Gal

PURGE TIME START: 11:29 PURGE TIME FINISH: 11:42

DTW AFTER PURGING: 12.88 ft PURGE RATE: 0.6 GPM

PURGE CHEMISTRIES:	TEMP(C)	Ph	COND(uS)	TDS
1ST VOL	27°	6.1	1020	430
2ND VOL	27°	6.0	1020	490
3RD VOL	25°	6.0	1010	480

SAMPLING INFORMATION:

SAMPLE NUMBER: 93-0728-28 SAMPLE METHOD Teflon Bailor

SAMPLE TIME START: 12:13

DTW BEFORE SAMPLING 11.02 ft DTW AFTER SAMPLING: 11.16 ft

SAMPLE CHEMISTRIES: TEMP.(C) 24.0° pH 6.0 COND(uS) 1020 TDS 460

SAMPLE ANALYSIS: VOA + 15

FIELD PERSONNEL: Susan Waddell, George Spangenberg, Joe Cajiao, Inés Torres, Dan Flatin

OBSERVATIONS & COMMENTS:

883750062

WELL SAMPLING LOG

OWNER'S WELL NO.: MW - 31

CLIENT: Hexcel Corporation ETKA NO.: 225300

SITE LOCATION: Lodi, New Jersey DATE: 7/27/93

NJDEPE CASE NO.: 86009 NJDEPE WELL PERMIT NO.: _____

WELL TYPE: Monitoring - 4 inch PVC

GEOLOGIC FORMATION: _____

ELEVATION-Top of Casing: 27.95 ft ELEVATION-Ground Surface: 28.33 ft

TOTAL WELL DEPTH FROM TOC: 10.38 ft DEPTH TO SCREEN FROM TOC: _____ ft

****

PURGE INFORMATION

DEPTH TO WATER FROM TOC: 5.82 ft ORGANIC VAPOR READINGS: 60 PPM

DEPTH TO FREE PRODUCT: 5.81 ft FREE PRODUCT THICKNESS: 0.01 ft

PURGE METHOD: Centrifugal Pump

ONE WELL VOLUME: 3.0 Gal TOTAL PURGE VOLUME: 10.0 Gal

PURGE TIME START: 10:56 PURGE TIME FINISH: 11:06

DTW AFTER PURGING: 8.63 ft PURGE RATE: 1.0 GPM

PURGE CHEMISTRIES:	TEMP(C)	Ph	COND(uS)	TDS
1ST VOL	25°	6.2	>2000	1520
2ND VOL	26°	6.3	>2000	1610
3RD VOL	25°	6.2	1970	1480

SAMPLING INFORMATION:

SAMPLE NUMBER: 93-0727-31 SAMPLE METHOD Teflon Bailor

SAMPLE TIME START: 13:06

DTW BEFORE SAMPLING 5.84 ft DTW AFTER SAMPLING: 5.87 ft

SAMPLE CHEMISTRIES: TEMP.(C) 27.0° pH 6.9 COND(uS) 1090 TDS 1270

SAMPLE ANALYSIS: VOA + 15

FIELD PERSONNEL: Susan Waddell, George Spangenberg, Joe Cajiao, Inés Torres, Dan Flatin

OBSERVATIONS & COMMENTS: _____

883750063

WELL SAMPLING LOG

OWNER'S WELL NO.: CW - 1

CLIENT: Hexcel Corporation ETKA NO.: 225300

SITE LOCATION: Lodi, New Jersey DATE: 7/27/93

NJDEPE CASE NO.: 86009 NJDEPE WELL PERMIT NO.: 26-21617-5

WELL TYPE: Monitoring - 4 inch PVC

GEOLOGIC FORMATION:

ELEVATION-Top of Casing: 29.77 ft ELEVATION-Ground Surface: 30.27 ft

TOTAL WELL DEPTH FROM TOC: 11.34 ft DEPTH TO SCREEN FROM TOC: ____ ft

****

PURGE INFORMATION

DEPTH TO WATER FROM TOC: 7.67 ft ORGANIC VAPOR READINGS: 7 PPM

DEPTH TO FREE PRODUCT: NA ft FREE PRODUCT THICKNESS: NA ft

PURGE METHOD: Centrifugal Pump

ONE WELL VOLUME: 2.4 Gal TOTAL PURGE VOLUME: 2.5 Gal

PURGE TIME START: 10:20 PURGE TIME FINISH: 10:27

DTW AFTER PURGING: 10.70 ft PURGE RATE: 0.4 GPM

PURGE CHEMISTRIES:	TEMP(C)	Ph	COND(uS)	TDS
1ST VOL	____	6.0	660	620
2ND VOL	---	---	---	---
3RD VOL	---	---	---	---

SAMPLING INFORMATION:

SAMPLE NUMBER: 93-0727-CW1 SAMPLE METHOD Teflon Bailor

SAMPLE TIME START: 12:34

DTW BEFORE SAMPLING 8.45 ft DTW AFTER SAMPLING: 8.62 ft

SAMPLE CHEMISTRIES: TEMP.(C) 25.0° pH 6.7 COND(uS) 540 TDS 440

SAMPLE ANALYSIS: VOA + 15

FIELD PERSONNEL: Susan Waddell, George Spangenberg, Joe Cajiao, Inés Torres, Dan Flatin

OBSERVATIONS & COMMENTS: Well produced only one volume.

883750064

WELL SAMPLING LOG

OWNER'S WELL NO.: CW - 10

CLIENT: Hexcel Corporation ETKA NO.: 225300

SITE LOCATION: Lodi, New Jersey DATE: 7/28/93

NJDEPE CASE NO.: 86009 NJDEPE WELL PERMIT NO.: _____

WELL TYPE: Monitoring - 4 inch PVC

GEOLOGIC FORMATION: _____

ELEVATION-Top of Casing: 25.91 ft ELEVATION-Ground Surface: 26.50 ft

TOTAL WELL DEPTH FROM TOC: 10.10 ft DEPTH TO SCREEN FROM TOC: _____ ft

****

PURGE INFORMATION

DEPTH TO WATER FROM TOC: 7.60 ft ORGANIC VAPOR READINGS: 0 PPM

DEPTH TO FREE PRODUCT: NA ft FREE PRODUCT THICKNESS: NA ft

PURGE METHOD: Centrifugal Pump

ONE WELL VOLUME: 1.6 Gal TOTAL PURGE VOLUME: 4.0 Gal

PURGE TIME START: 10:08 PURGE TIME FINISH: 10:40

DTW AFTER PURGING: 9.88 ft PURGE RATE: 0.1 GPM

PURGE CHEMISTRIES:	TEMP(C)	Ph	COND(uS)	TDS
1ST VOL	25°	6.9	750	480
2ND VOL	28°	6.9	850	580
3RD VOL	29°	7.0	820	570

SAMPLING INFORMATION:

SAMPLE NUMBER: 93-0728-CW10 SAMPLE METHOD Teflon Bailor

SAMPLE TIME START: 11:50

DTW BEFORE SAMPLING 7.68 ft DTW AFTER SAMPLING: 8.01 ft

SAMPLE CHEMISTRIES: TEMP.(C) 25° pH 6.6 COND(uS) 760 TDS 520

SAMPLE ANALYSIS: VOA + 15

FIELD PERSONNEL: Susan Waddell, George Spangenberg, Joe Cajiao, Inés Torres, Dan Flatin

OBSERVATIONS & COMMENTS: _____

883750065

WELL SAMPLING LOG

OWNER'S WELL NO.: RW - 6 - 2

CLIENT: Hexcel Corporation ETKA NO.: 225300

SITE LOCATION: Lodi, New Jersey DATE: 7/28/93

NJDEPE CASE NO.: 86009 NJDEPE WELL PERMIT NO.: _____

WELL TYPE: Monitoring - 4 inch PVC

GEOLOGIC FORMATION: _____

ELEVATION-Top of Casing: 29.27 ft ELEVATION-Ground Surface: _____ ft

TOTAL WELL DEPTH FROM TOC: 14.68 ft DEPTH TO SCREEN FROM TOC: _____ ft

****

PURGE INFORMATION

DEPTH TO WATER FROM TOC: 3.83 ft ORGANIC VAPOR READINGS: 15 PPM

DEPTH TO FREE PRODUCT: NA ft FREE PRODUCT THICKNESS: NA ft

PURGE METHOD: Centrifugal Pump

ONE WELL VOLUME: 7.1 Gal TOTAL PURGE VOLUME: 8.0 Gal

PURGE TIME START: 13:41 PURGE TIME FINISH: 13:51

DTW AFTER PURGING: 14.17 ft PURGE RATE: 0.8 GPM

PURGE CHEMISTRIES:	TEMP(C)	Ph	COND(uS)	TDS
1ST VOL	24°	8.7	>2000	1870
2ND VOL	---	---	---	---
3RD VOL	---	---	---	---

SAMPLING INFORMATION:

SAMPLE NUMBER: 93-0728-RW-6-2 SAMPLE METHOD Teflon Bailor

SAMPLE TIME START: 15:26

DTW BEFORE SAMPLING___ ft DTW AFTER SAMPLING: 12.32 ft

SAMPLE CHEMISTRIES: TEMP.(C) 24.0° pH 8.6 COND(uS) >2000 TDS 1540

SAMPLE ANALYSIS: VOA + 15

FIELD PERSONNEL: Susan Waddell, George Spangenberg, Joe Cajiao, Inés Torres, Dan Flatin

OBSERVATIONS & COMMENTS: Well produced only one volume.

883750066

WELL SAMPLING LOG

OWNER'S WELL NO.: CW - 3

CLIENT: Hexcel Corporation ETKA NO.: 225300

SITE LOCATION: Lodi, New Jersey DATE: 7/27/93

NJDEPE CASE NO.: 86009 NJDEPE WELL PERMIT NO.: 26-21221-8

WELL TYPE: Monitoring - 4 inch PVC

GEOLOGIC FORMATION: _____

ELEVATION-Top of Casing: 29.72 ft ELEVATION-Ground Surface: _____ ft

TOTAL WELL DEPTH FROM TOC: 11.28 ft DEPTH TO SCREEN FROM TOC: _____ ft

****

PURGE INFORMATION

DEPTH TO WATER FROM TOC: 7.56 ft ORGANIC VAPOR READINGS: 0 PPM

DEPTH TO FREE PRODUCT: NA ft FREE PRODUCT THICKNESS: NA ft

PURGE METHOD: Centrifugal Pump

ONE WELL VOLUME: 2.4 Gal TOTAL PURGE VOLUME: 1.0 Gal

PURGE TIME START: 11:18 PURGE TIME FINISH: 11:21

DTW AFTER PURGING: dry ft PURGE RATE: 0.3 GPM

PURGE CHEMISTRIES:	TEMP(C)	Ph	COND(uS)	TDS
1ST VOL	22°	6.6	970	860
2ND VOL	---	---	---	---
3RD VOL	---	---	---	---

SAMPLING INFORMATION:

SAMPLE NUMBER: 93-0727-CW3 SAMPLE METHOD PVC Bailor

SAMPLE TIME START: 13:20

DTW BEFORE SAMPLING 7.39 ft DTW AFTER SAMPLING: 8.38 ft

SAMPLE CHEMISTRIES: TEMP.(C) 24° pH 7.6 COND(uS) 1360 TDS _____

SAMPLE ANALYSIS: VOA + 15, PCB

FIELD PERSONNEL: Susan Waddell, George Spangenberg, Joe Cajiao, Inés Torres, Dan Flatin

OBSERVATIONS & COMMENTS: Well produced only one volume.

883750067

WELL SAMPLING LOG

OWNER'S WELL NO.: CW - 5

CLIENT: Hexcel Corporation ETKA NO.: 225300

SITE LOCATION: Lodi, New Jersey DATE: 7/27/93

NJDEPE CASE NO.: 86009 NJDEPE WELL PERMIT NO.: _____

WELL TYPE: Monitoring - 4 inch PVC

GEOLOGIC FORMATION: _____

ELEVATION-Top of Casing: 28.67 ft ELEVATION-Ground Surface: 28.89 ft

TOTAL WELL DEPTH FROM TOC: 9.15 ft DEPTH TO SCREEN FROM TOC: _____ ft

****

PURGE INFORMATION

DEPTH TO WATER FROM TOC: 6.27 ft ORGANIC VAPOR READINGS: 0 PPM

DEPTH TO FREE PRODUCT: NA ft FREE PRODUCT THICKNESS: NA ft

PURGE METHOD: Centrifugal Pump

ONE WELL VOLUME: 1.8 Gal TOTAL PURGE VOLUME: 7.0 Gal

PURGE TIME START: 11:34 PURGE TIME FINISH: 11:43

DTW AFTER PURGING: 8.73 ft PURGE RATE: 0.8 GPM

PURGE CHEMISTRIES:	TEMP(C)	Ph	COND(uS)	TDS
1ST VOL	24°	6.8	>2000	
2ND VOL	25°	7.3	>2000	
3RD VOL	25°	7.3	>2000	

SAMPLING INFORMATION:

SAMPLE NUMBER: 93-0727-CW5 SAMPLE METHOD PVC Bailor

SAMPLE TIME START: 13:05

DTW BEFORE SAMPLING 6.22 ft DTW AFTER SAMPLING: 6.27 ft

SAMPLE CHEMISTRIES: TEMP.(C) 25° pH 7.1 COND(uS) >2000 TDS _____

SAMPLE ANALYSIS: VOA + 15, PCB

FIELD PERSONNEL: Susan Waddell, George Spangenberg, Joe Cajiao, Inés Torres, Dan Flatin

OBSERVATIONS & COMMENTS: _____

883750068

WELL SAMPLING LOG

OWNER'S WELL NO.: CW - 9

CLIENT: Hexcel Corporation ETKA NO.: 225300

SITE LOCATION: Lodi, New Jersey DATE: 7/27/93

NJDEPE CASE NO.: 86009 NJDEPE WELL PERMIT NO.: _____

WELL TYPE: Monitoring - 4 inch PVC

GEOLOGIC FORMATION: _____

ELEVATION-Top of Casing: 26.37 ft ELEVATION-Ground Surface: 26.60 ft

TOTAL WELL DEPTH FROM TOC: 14.00 ft DEPTH TO SCREEN FROM TOC: _____ ft

****

PURGE INFORMATION

DEPTH TO WATER FROM TOC: 8.32 ft ORGANIC VAPOR READINGS: 0 PPM

DEPTH TO FREE PRODUCT: NA ft FREE PRODUCT THICKNESS: NA ft

PURGE METHOD: Centrifugal Pump

ONE WELL VOLUME: 2.8 Gal TOTAL PURGE VOLUME: 10.0 Gal

PURGE TIME START: 14:41 PURGE TIME FINISH: 14:50

DTW AFTER PURGING: 9.98 ft PURGE RATE: 1.1 GPM

PURGE CHEMISTRIES:	TEMP(C)	Ph	COND(uS)	TDS
1ST VOL	24°	7.6	1100	
2ND VOL	25°	7.7	1160	
3RD VOL	24°	7.7	1230	

SAMPLING INFORMATION:

SAMPLE NUMBER: 93-0727-CW9 SAMPLE METHOD Teflon Bailor

SAMPLE TIME START: 16:27

DTW BEFORE SAMPLING 8.16 ft DTW AFTER SAMPLING: 8.26 ft

SAMPLE CHEMISTRIES: TEMP.(C) 24° pH 7.7 COND(uS) 1240 TDS _____

SAMPLE ANALYSIS: VOA + 15, PCB

FIELD PERSONNEL: Susan Waddell, George Spangenberg, Joe Cajiao, Inés Torres, Dan Flatin

OBSERVATIONS & COMMENTS: _____

883750069

WELL SAMPLING LOG

OWNER'S WELL NO.: CW - 11

CLIENT: Hexcel Corporation ETKA NO.: 225300

SITE LOCATION: Lodi, New Jersey DATE: 7/27/93

NJDEPE CASE NO.: 86009 NJDEPE WELL PERMIT NO.: _____

WELL TYPE: Monitoring - 4 inch PVC

GEOLOGIC FORMATION: _____

ELEVATION-Top of Casing: 25.74 ft ELEVATION-Ground Surface: 26.60 ft

TOTAL WELL DEPTH FROM TOC: 14.00 ft DEPTH TO SCREEN FROM TOC: _____ ft

****

PURGE INFORMATION

DEPTH TO WATER FROM TOC: 8.48 ft ORGANIC VAPOR READINGS: 0 PPM

DEPTH TO FREE PRODUCT: NA ft FREE PRODUCT THICKNESS: NA ft

PURGE METHOD: Centrifugal Pump

ONE WELL VOLUME: 3.5 Gal TOTAL PURGE VOLUME: 12.0 Gal

PURGE TIME START: 14:25 PURGE TIME FINISH: 14:32

DTW AFTER PURGING: 8.64 ft PURGE RATE: 1.7 GPM

PURGE CHEMISTRIES:	TEMP(C)	Ph	COND(uS)	TDS
1ST VOL	24°	7.0	1590	
2ND VOL	24°	7.1	1790	
3RD VOL	24°	6.9	>2000	

SAMPLING INFORMATION:

SAMPLE NUMBER: 93-0727-CW11 SAMPLE METHOD Teflon Bailor

SAMPLE TIME START: 16:15

DTW BEFORE SAMPLING 7.49 ft DTW AFTER SAMPLING: 7.49 ft

SAMPLE CHEMISTRIES: TEMP.(C) 24° pH 7.4 COND(uS) 1330 TDS _____

SAMPLE ANALYSIS: VOA + 15, PCB

FIELD PERSONNEL: Susan Waddell, George Spangenberg, Joe Cajiao, Inés Torres, Dan Flatin

OBSERVATIONS & COMMENTS: _____

883750070

WELL SAMPLING LOG

OWNER'S WELL NO.: CW - 15

CLIENT: Hexcel Corporation ETKA NO.: 225300

SITE LOCATION: Lodi, New Jersey DATE: 7/27/93

NJDEPE CASE NO.: 86009 NJDEPE WELL PERMIT NO.: _____

WELL TYPE: Monitoring - 4 inch PVC

GEOLOGIC FORMATION: _____

ELEVATION-Top of Casing: 26.31 ft ELEVATION-Ground Surface: 26.90 ft

TOTAL WELL DEPTH FROM TOC: 11.80 ft DEPTH TO SCREEN FROM TOC: _____ ft

****

PURGE INFORMATION

DEPTH TO WATER FROM TOC: 8.49 ft ORGANIC VAPOR READINGS: 0 PPM

DEPTH TO FREE PRODUCT: 12.86 ft FREE PRODUCT THICKNESS: ???? ft

PURGE METHOD: Centrifugal Pump

ONE WELL VOLUME: 2.1 Gal TOTAL PURGE VOLUME: 6.0 Gal

PURGE TIME START: 14:09 PURGE TIME FINISH: 14:14

DTW AFTER PURGING: 10.70 ft PURGE RATE: 1.2 GPM

PURGE CHEMISTRIES:	TEMP(C)	Ph	COND(uS)	TDS
1ST VOL	21°	8.0	690	
2ND VOL	20°	7.7	630	
3RD VOL	20°	7.5	630	

SAMPLING INFORMATION:

SAMPLE NUMBER: 93-0727-CW15 SAMPLE METHOD Teflon Bailor

SAMPLE TIME START: 15:57

DTW BEFORE SAMPLING 8.13 ft DTW AFTER SAMPLING: 8.58 ft

SAMPLE CHEMISTRIES: TEMP.(C) 21° pH 8.4 COND(uS) 600 TDS _____

SAMPLE ANALYSIS: VOA + 15, PCB

FIELD PERSONNEL: Susan Waddell, George Spangenberg, Joe Cajiao, Inés Torres, Dan Flatin

OBSERVATIONS & COMMENTS: _____

883750071

WELL SAMPLING LOG

OWNER'S WELL NO.: CW - 18

CLIENT: Hexcel Corporation ETKA NO.: 225300

SITE LOCATION: Lodi, New Jersey DATE: 7/27/93

NJDEPE CASE NO.: 86009 NJDEPE WELL PERMIT NO.: _____

WELL TYPE: Monitoring - 4 inch PVC

GEOLOGIC FORMATION: _____

ELEVATION-Top of Casing: 26.61 ft ELEVATION-Ground Surface: 27.20 ft

TOTAL WELL DEPTH FROM TOC: 13.75 ft DEPTH TO SCREEN FROM TOC: _____ ft

****

PURGE INFORMATION

DEPTH TO WATER FROM TOC: 7.70 ft ORGANIC VAPOR READINGS: 0 PPM

DEPTH TO FREE PRODUCT: NA ft FREE PRODUCT THICKNESS: NA ft

PURGE METHOD: Centrifugal Pump

ONE WELL VOLUME: 3.9 Gal TOTAL PURGE VOLUME: 13.0 Gal

PURGE TIME START: 13:40 PURGE TIME FINISH: 13:50

DTW AFTER PURGING: 8.75 ft PURGE RATE: 1.3 GPM

PURGE CHEMISTRIES:	TEMP(C)	Ph	COND(uS)	TDS
1ST VOL	29°	7.8	1230	
2ND VOL	27°	7.2	1080	
3RD VOL	28°	7.1	1210	

SAMPLING INFORMATION:

SAMPLE NUMBER: 93-0727-CW18 SAMPLE METHOD Teflon Bailor

SAMPLE TIME START: 15:30

DTW BEFORE SAMPLING 7.66 ft DTW AFTER SAMPLING: 7.69 ft

SAMPLE CHEMISTRIES: TEMP.(C) 25° pH 7.6 COND(uS) 910 TDS _____

SAMPLE ANALYSIS: VOA + 15, PCB

FIELD PERSONNEL: Susan Waddell, George Spangenberg, Joe Cajiao, Inés Torres, Dan Flatin

OBSERVATIONS & COMMENTS: _____

883750072

WELL SAMPLING LOG

OWNER'S WELL NO.: CW - 21

CLIENT: Hexcel Corporation ETKA NO.: 225300

SITE LOCATION: Lodi, New Jersey DATE: 7/27/93

NJDEPE CASE NO.: 86009 NJDEPE WELL PERMIT NO.: _____

WELL TYPE: Monitoring - 4 inch PVC

GEOLOGIC FORMATION: _____

ELEVATION-Top of Casing: 26.77 ft ELEVATION-Ground Surface: 27.40 ft

TOTAL WELL DEPTH FROM TOC: 14.00 ft DEPTH TO SCREEN FROM TOC: _____ ft

****

PURGE INFORMATION

DEPTH TO WATER FROM TOC: 7.89 ft ORGANIC VAPOR READINGS: 0 PPM

DEPTH TO FREE PRODUCT: NA ft FREE PRODUCT THICKNESS: NA ft

PURGE METHOD: Centrifugal Pump

ONE WELL VOLUME: 1.0 Gal TOTAL PURGE VOLUME: 4.0 Gal

PURGE TIME START: 15:00 PURGE TIME FINISH: 15:06

DTW AFTER PURGING: 7.95 ft PURGE RATE: 0.7 GPM

PURGE CHEMISTRIES:	TEMP(C)	Ph	COND(uS)	TDS
1ST VOL	28°	7.6	1570	
2ND VOL	29°	7.5	1640	
3RD VOL	30°	7.2	1670	

SAMPLING INFORMATION:

SAMPLE NUMBER: 93-0727-CW21 SAMPLE METHOD Teflon Bailor

SAMPLE TIME START: 15:23

DTW BEFORE SAMPLING 7.89 ft DTW AFTER SAMPLING: 8.77 ft

SAMPLE CHEMISTRIES: TEMP.(C) 25° pH 8.4 COND(uS) 1080 TDS _____

SAMPLE ANALYSIS: VOA + 15, PCB

FIELD PERSONNEL: Susan Waddell, George Spangenberg, Joe Cajiao, Inés Torres, Dan Flatin

OBSERVATIONS & COMMENTS: _____

883750073

Killam
Associates Consulting Engineers

APPENDIX H

Laboratory Analytical Data
Under Separate Cover

Killam
Associates ▫ Consulting Engineers

APPENDIX I

Laboratory Analytical Results
for
Sewer Outfall

883750075

ACCUTEST
2235 ROUTE 130, DAYTON, NJ 08810 • (908) 329-0200

08/04/93

TECHNICAL REPORT FOR KILLAM ASSOCIATES

SAMPLES TAKEN AT:	HEXCEL, LODI, NJ
CLIENT PROJECT ID:	225300-0005
ACCUTEST JOB NUMBER:	934149
SAMPLES RECEIVED AT ACCUTEST ON:	07/21/93
NUMBER OF SAMPLES IN THIS REPORT:	2
TOTAL NUMBER OF PAGES IN REPORT:	103

VINCENT J. PUGLIESE
PRESIDENT

883750076

NOTE: THIS REPORT SHOULD ONLY BE REPRODUCED IN FULL

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KILLAM ASSOCIATES
27 BLEEKER STREET
MILLBURN, NJ 07041

DATE: 08/04/93
JOB No: 934149
PROJECT No: 225300-0005
SAMPLE RECEIVED: 07/21/93

ATTN: DAVID KNOWLES

SAMPLE SUMMARY

SAMPLE No	COLLECTED DATE	TIME	BY	POINT OF COLLECTION
E319534	07/20/93	13:50	DAF	OTHER-SOLID - 93-0720-OUT, OUTFALL HEXCEL, LODI, NJ
E319535	07/20/93	13:30	DAF	WATER - 93-0720-FB, HEXCEL (FIELD BLANK) HEXCEL, LODI, NJ

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PRESIDENT

CERTIFICATIONS: NJ (12129) • NY (10983) • PA (68-408) • MA (NJ141) • CT (PH-0785) • MD (187) • DE • VA (10047) • NC (349) • SC (84009) • TN (2968)

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ANALYSIS REPORT

SAMPLE No	COLLECTED DATE	TIME	BY	POINT OF COLLECTION
E319534	07/20/93	13:50	DAF	OTHER-SOLID - 93-0720-OUT, OUTFALL HEXCEL, LODI, NJ

TEST DESCRIPTION	RESULT	MDL	UNITS	DATE	INIT
PCB'S					
AROCHLOR 1016	ND	19	UG/L	07/29/93	RAW
AROCHLOR 1221	ND	7.8	UG/L	07/29/93	RAW
AROCHLOR 1232	ND	18	UG/L	07/29/93	RAW
AROCHLOR 1242	ND	36	UG/L	07/29/93	RAW
AROCHLOR 1248	260	11	UG/L	07/29/93	RAW
AROCHLOR 1254	180	13	UG/L	07/29/93	RAW
AROCHLOR 1260	ND	17	UG/L	07/29/93	RAW

ND = NOT DETECTED
UG/KG = PPB MG/KG = PPM
MDL = METHOD DETECTION LIMIT
ALL RESULTS REPORTED ON A DRY WEIGHT BASIS

CERTIFICATIONS: NJ (12129) • NY (10983) • PA (68-408) • MA (NJ141) • CT (PH-0585) • MD (167) • DE • VA (00004) • NC (346) • SC (94009) • TN (2965)

ACCUTEST
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ANALYSIS REPORT

SAMPLE No	COLLECTED DATE	TIME	BY	POINT OF COLLECTION
E319534	07/20/93	13:50	DAF	OTHER-SOLID - 93-0720-OUT, OUTFALL HEXCEL, LODI, NJ

TEST DESCRIPTION	RESULT	MDL	UNITS	DATE	INIT
SOLIDS, TOTAL PERCENT	68	2.0	%	07/23/93	NM

UG/KG = PPB MG/KG = PPM
MDL = METHOD DETECTION LIMIT
ALL RESULTS REPORTED ON A DRY WEIGHT BASIS

CERTIFICATIONS NJ (12129) • NY (10983) • PA (68-408) • MA (NJ141) • CT (PH-0585) • MD (167) • DE • VA (00004) • NC (346) • SC (94009) • TN (2968)

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ANALYSIS REPORT

SAMPLE No	COLLECTED DATE	TIME	BY	POINT OF COLLECTION
E319535	07/20/93	13:30	DAF	WATER - 93-0720-FB, HEXCEL (FIELD BLANK) HEXCEL, LODI, NJ

TEST DESCRIPTION	RESULT	MDL	UNITS	DATE	INIT
PCB'S					
AROCHLOR 1016	ND	0.38	UG/L	07/22/93	RAW
AROCHLOR 1221	ND	0.16	UG/L	07/22/93	RAW
AROCHLOR 1232	ND	0.36	UG/L	07/22/93	RAW
AROCHLOR 1242	ND	0.75	UG/L	07/22/93	RAW
AROCHLOR 1248	ND	0.23	UG/L	07/22/93	RAW
AROCHLOR 1254	ND	0.26	UG/L	07/22/93	RAW
AROCHLOR 1260	ND	0.34	UG/L	07/22/93	RAW

ND = NOT DETECTED
UG/L = PPB MG/L = PPM
MDL = METHOD DETECTION LIMIT

CERTIFICATIONS: NJ (12129) • NY (10983) • PA (68-408) • MA (NJ141) • CT (PH-0565) • MD (167) • DE • VA (00004) • NC (346) • SC (94009) • TN (0985)

Killam
Associates Consulting Engineers
27 E[illegible]ter Street
Millburn, NJ 07041-1008
Tel.: 201-379-3400
Fax: 201-912-2405

Chain of Custody

934149

Page 1 of 1

Client Name: HEXCEL CORP.
Work ID:
Project # and Type: 225300-0005
Project Manager: GARY K. WALKER

Collected by (print): DANIEL A. FLATIN
Signature: [signature]
Preserved by:
Before Sampling _____ After Sampling _____

Lab Work Order:

Lab No.	Sample Number	Sample * Location	Collected Date	Collected Time	Analyses: PCB's	Notes
EJIS S34	93-0720-OUT	OUTFALL	7-20-93	1350	X	
EJIS S35	93-0720-FB	HEXCEL	7-20-93	1330	X	Field Blank

* 930720-Out: Label reads: 9307095-01A, Drum Composite
930720-FB: Label reads: 93-0720-FB, outfall (storm sewer) @ Saddlebrook

2E

Report Format: UST ECRA TIER IIb NJPDES DMR JM Other

Turnaround Time: Standard

Preservation Checked in Lab by:

Additional Comments

REFER TO HEXCEL FLD BK #02 pp. 96-99 FOR SMPLG DATA

Samples Relinquished By:	Samples Received By:	Date/Time
[signature]	Robert Walker	7/21/93 11:10
Robert Walker	R. Van [signature]	7/21/93 1210

883750081

6

0792

PTCL PESTICIDE/PCB ORGANICS (GC) ANALYSIS REPORT

			DATA FILES	ANALYSIS DATES
JOB Number	: ( )		=======	========
CLIENT	: GC-1506-1	SAMPLE INITIAL	: >01152	07/22/93
LAB SAMPLE #	: MB-1506-1	SAMPLE DIL. #1	:	
MATRIX	: WATER	SAMPLE DIL. #2	:	
METHOD	: EPA-608	ANALYST	: RAW	

COMPOUND	FOOTNOTE	RESULT (ug/L)	MDL (ug/L)	Q
1) alpha-BHC		ND	0.095	
2) beta-BHC		ND	0.085	
3) delta-BHC		ND	0.12	
4) gamma-BHC (Lindane)		ND	0.10	
5) Heptachlor		ND	0.15	
6) Aldrin		ND	0.081	
7) Heptachlor epoxide		ND	0.080	
8) Endosulfan I		ND	0.080	
9) Dieldrin		ND	0.068	
10) 4,4'-DDE		ND	0.098	
11) Endrin		ND	0.42	
12) Endosulfan II		ND	0.086	
13) 4,4'-DDD		ND	0.11	
14) Endosulfan sulfate		ND	0.051	
15) 4,4'-DDT		ND	0.12	
16) Methoxychlor		ND	0.14	
17) Endrin ketone		ND	0.096	
18) Endrin aldehyde		ND	0.037	
19) alpha-Chlordane		ND	0.050	
20) gamma-Chlordane		ND	0.050	
21) Toxaphene		ND	0.44	
22) Aroclor-1016		ND	0.38	
23) Aroclor-1221		ND	0.16	
24) Aroclor-1232		ND	0.36	
25) Aroclor-1242		ND	0.74	
26) Aroclor-1248		ND	0.23	
27) Aroclor-1254		ND	0.26	
28) Aroclor-1260		ND	0.34	

ND = NOT DETECTED (1) - RESULTS REPORTED FROM DILUTION #1
MDL= METHOD DETECTION LIMIT (2) - RESULTS REPORTED FROM DILUTION #2

FOOTNOTE P10A = MDL ELEVATED DUE TO DILUTION FACTOR

QUALIFIERS (Q)

J =INDICATES AN ESTIMATED VALUE BELOW MDL
B =INCICATES COMPOUND FOUND IN THE ASSOCIATED BLANK AS WELL AS IN SAMPLE

PTCL PESTICIDE/PCB ORGANICS (GC) ANALYSIS REPORT

			DATA FILES	ANALYSIS DATES
JOB Number	: ( )		=======	========
CLIENT	: GC-1510	SAMPLE INITIAL :	>01008	07/15/93
LAB SAMPLE #	: MB-1510	SAMPLE DIL. #1 :		
MATRIX	: SOIL	SAMPLE DIL. #2 :		
METHOD	: SW846-8080	ANALYST :	RAW	

COMPOUND	FOOTNOTE	RESULT (ug/kg)*	MDL (ug/kg)*	Q
1) alpha-BHC		ND	3.2	
2) beta-BHC		ND	2.8	
3) delta-BHC		ND	4.0	
4) gamma-BHC (Lindane)		ND	3.3	
5) Heptachlor		ND	5.0	
6) Aldrin		ND	2.7	
7) Heptachlor epoxide		ND	2.7	
8) Endosulfan I		ND	2.7	
9) Dieldrin		ND	2.3	
10) 4,4'-DDE		ND	3.3	
11) Endrin		ND	14	
12) Endosulfan II		ND	2.9	
4,4'-DDD		ND	3.7	
14) Endosulfan sulfate		ND	1.7	
15) 4,4'-DDT		ND	4.0	
16) Methoxychlor		ND	4.7	
17) Endrin ketone		ND	3.2	
18) Endrin aldehyde		ND	1.2	
19) alpha-Chlordane		ND	1.7	
20) gamma-Chlordane		ND	1.7	
21) Toxaphene		ND	15	
22) Aroclor-1016		ND	13	
23) Aroclor-1221		ND	5.3	
24) Aroclor-1232		ND	12	
25) Aroclor-1242		ND	25	
26) Aroclor-1248		ND	7.7	
27) Aroclor-1254		ND	8.7	
28) Aroclor-1260		ND	11	

* = REPORTED ON A DRY WEIGHT BASIS
ND = NOT DETECTED (1) - RESULTS REPORTED FROM DILUTION #1
MDL= METHOD DETECTION LIMIT (2) - RESULTS REPORTED FROM DILUTION #2

FOOTNOTE P10A = MDL ELEVATED DUE TO DILUTION FACTOR
QUALIFIERS (Q)

J =INDICATES AN ESTIMATED VALUE BELOW MDL
B =INCICATES COMPOUND FOUND IN THE ASSOCIATED BLANK AS WELL AS IN SAMPLE

PCB PCB'S ORGANICS (GC) ANALYSIS REPORT

			DATA FILES	ANALYSIS DATES
JOB Number	: ( )		=======	========
CLIENT	: GC-1510-2	SAMPLE INITIAL :	>01185	07/23/93
LAB SAMPLE #	: MB-1510-2	SAMPLE DIL. #1 :		
MATRIX	: SOIL	SAMPLE DIL. #2 :		
METHOD	: SW846-8080	ANALYST :	RAW	

COMPOUND	FOOTNOTE	RESULT (ug/kg)*	MDL (ug/kg)*	Q
1) Aroclor-1016		ND	13	
2) Aroclor-1221		ND	5.3	
3) Aroclor-1232		ND	12	
4) Aroclor-1242		ND	25	
5) Aroclor 1248		ND	7.7	
6) Aroclor-1254		ND	8.7	
7) Aroclor-1260		ND	11	

* = REPORTED ON A DRY WEIGHT BASIS
ND = NOT DETECTED (1) - RESULTS REPORTED FROM DILUTION #1
MDL= METHOD DETECTION LIMIT (2) - RESULTS REPORTED FROM DILUTION #2

FOOTNOTE P10A = MDL ELEVATED DUE TO DILUTION FACTOR
QUALIFIERS (Q)

J =INDICATES AN ESTIMATED VALUE BELOW MDL
B =INCICATES COMPOUND FOUND IN THE ASSOCIATED BLANK AS WELL AS IN SAMPLE

Killam

APPENDIX H

Analytical Laboratory Results for
Groundwater Sampling
July 27-28, 1993

Part I

Hexcel Corporation
Monthly Project Status Report
August 1993

883750085

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08/17/93

TECHNICAL REPORT FOR KILLAM ASSOCIATES

SAMPLES TAKEN AT:	HEXCEL, LODI, NJ
CLIENT PROJECT ID:	2253000013
ACCUTEST JOB NUMBER:	934307
SAMPLES RECEIVED AT ACCUTEST ON:	07/28/93
NUMBER OF SAMPLES IN THIS REPORT:	14
TOTAL NUMBER OF PAGES IN REPORT:	434

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KILLAM ASSOCIATES
27 BLEEKER STREET
MILLBURN, NJ 07041

DATE: 08/17/93
JOB No: 934307
PROJECT No: 2253000013
SAMPLE RECEIVED: 07/28/93

ATTN: DEBBIE NARDACCI

SAMPLE SUMMARY

SAMPLE No	COLLECTED DATE	TIME	BY	POINT OF COLLECTION
E320255	07/27/93	11:41	DAF	GROUND WATER - 93-0727-01, MW-1 HEXCEL, LODI, NJ
E320256	07/27/93	14:02	DAF	GROUND WATER - 93-0727-02, MW-2 HEXCEL, LODI, NJ
E320257	07/27/93	13:33	DAF	GROUND WATER - 93-0727-03, MW-3 HEXCEL, LODI, NJ
E320258	07/27/93	16:39	DAF	GROUND WATER - 93-0727-04,MW-4 HEXCEL, LODI, NJ
E320259	07/27/93	15:22	DAF	GROUND WATER - 93-0727-05, MW-5 HEXCEL, LODI, NJ
E320260	07/27/93	12:09	DAF	GROUND WATER - 93-0727-17, MW-17 HEXCEL, LODI, NJ

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KILLAM ASSOCIATES
27 BLEEKER STREET
MILLBURN, NJ 07041

DATE: 08/17/93
JOB No: 934307
PROJECT No: 2253000013
SAMPLE RECEIVED: 07/28/93

ATTN: DEBBIE NARDACCI

SAMPLE SUMMARY

SAMPLE No	COLLECTED DATE	TIME	BY	POINT OF COLLECTION
E320261	07/27/93	13:19	DAF	GROUND WATER - 93-0727-18, MW-18 HEXCEL, LODI, NJ
E320262	07/27/93	16:58	DAF	GROUND WATER - 93-0727-20, MW-20 HEXCEL, LODI, NJ
E320263	07/27/93	16:22	DAF	GROUND WATER - 93-0727-21, MW-21 HEXCEL, LODI, NJ
E320264	07/27/93	12:46	DAF	GROUND WATER - 93-0727-22, MW-22 HEXCEL, LODI, NJ
E320265	07/27/93	13:06	DAF	GROUND WATER - 93-0727-31, MW-31 HEXCEL, LODI, NJ
E320266	07/27/93	12:34	DAF	GROUND WATER - 93-0727-CW1, CW-1 HEXCEL, LODI, NJ

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KILLAM ASSOCIATES
27 BLEEKER STREET
MILLBURN, NJ 07041

DATE: 08/17/93
JOB No: 934307
PROJECT No: 2253000013
SAMPLE RECEIVED: 07/28/93

ATTN: DEBBIE NARDACCI

SAMPLE SUMMARY

SAMPLE No	COLLECTED DATE	TIME	BY	POINT OF COLLECTION
E320267	07/27/93	12:45	DAF	WATER - 93-0727-FB, HEXCEL, FIELD BLANK HEXCEL, LODI, NJ
E320268	07/27/93		DAF	WATER - 93-0726-TB, ACCUTEST, TRIP BLANK HEXCEL, LODI, NJ

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ANALYSIS REPORT FOR VOLATILE ORGANICS BY GC/MS

		DATA FILES	ANALYSIS DATE
CLIENT : KILLAM	Initial :	>J6913	07/30/93
LAB SAMPLE #: E320255	Dilution #1 :		
MATRIX : WATER	Dilution #2 :		
METHOD : EPA 624			

	COMPOUND	RESULT (ug/L)	MDL (ug/L)	Q
1)	ACROLEIN	ND	13	
2)	ACRYLONITRILE	ND	10	
3)	BENZENE	ND	4.2	
4)	BROMOFORM	ND	3.1	
5)	BROMODICHLOROMETHANE	ND	3.3	
6)	BROMOMETHANE	ND	5.0	
7)	CARBON TETRACHLORIDE	ND	3.8	
8)	CHLOROBENZENE	19	7.0	
9)	CHLOROETHANE	ND	5.0	
10)	2-CHLOROETHYL VINYL ETHER	ND	2.0	
11)	CHLOROFORM	ND	3.4	
12)	CHLOROMETHANE	ND	5.5	
13)	cis-1,3-DICHLOROPROPENE	ND	4.6	
14)	DIBROMOCHLOROMETHANE	ND	3.2	
15)	1,2-DICHLOROBENZENE	58	9.0	
16)	1,3-DICHLOROBENZENE	ND	10	
17)	1,4-DICHLOROBENZENE	7.4	11	J
18)	1,1-DICHLOROETHANE	ND	2.9	
19)	1,2-DICHLOROETHANE	ND	3.3	
20)	1,1-DICHLOROETHYLENE	ND	4.4	
21)	trans-1,2-DICHLOROETHYLENE	ND	4.7	
22)	trans-1,3-DICHLOROPROPENE	ND	3.5	
23)	1,2-DICHLOROPROPANE	ND	3.7	
24)	ETHYLBENZENE	ND	7.5	
25)	METHYLENE CHLORIDE	ND	4.2	
26)	1,1,2,2-TETRACHLOROETHANE	ND	2.8	
27)	TETRACHLOROETHYLENE	ND	7.5	
28)	TOLUENE	34	6.0	
29)	1,1,1-TRICHLOROETHANE	ND	3.3	
30)	1,1,2-TRICHLOROETHANE	ND	4.3	
31)	TRICHLOROETHYLENE	ND	7.5	
32)	TRICHLOROFLUOROMETHANE	ND	4.5	
33)	VINYL CHLORIDE	ND	5.0	
34)	XYLENE (total)	36	17	

ND = NOT DETECTED
MDL= METHOD DETECTION LIMIT

(1) - RESULTS REPORTED FROM DILUTION #1
(2) - RESULTS REPORTED FROM DILUTION #2

QUALIFIERS (Q)
J =INDICATES AN ESTIMATED VALUE BELOW MDL
B =INDICATES COMPOUND FOUND IN THE ASSOCIATED BLANK AS WELL AS IN SAMPLE
E =ESTIMATED VALUE; EXCEEDS INSTRUMENT CALIBRATION RANGE

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: KILLAM

Lab Sample ID: E320255 ,

Date Analyzed: 7/30/93 20:55

Lab File ID: >J6913

Matrix: WATER FOR VOA

Number TICs found: 5 CONCENTRATION UNITS: ug/L

CAS NUMBER	COMPOUND NAME	RT	EST CONC	Q
1.	Unknown	3.90	560.	4 ME
2.	Unknown	5.23	130.	4 ME
3. 156592	Ethene, 1,2-dichloro-, ~~(Z)~~ (CIS)- (9CI)	11.78	1300.	
4. 98828	Benzene, (1-methylethyl)- (9CI)	25.85	32.	
5. 526738	Benzene, 1,2,3-trimethyl- (8CI9CI)	27.10	37.	
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				

QUALIFIERS(Q);
(1)-THIS COMPOUND (OR SIMILAR SPECTRA) FOUND IN LAB BLANK.
(2)-INTERNAL OR SURROGATE STANDARD ADDED BY LABORATORY.
(3)-THIS COMPOUND ALREADY IDENTIFIED AND REPORTED AS TARGET COMPOUND.
(4)-PROBABLE BACKGROUND DUE TO SOLVENT OR CO2.
(5)-OTHER:

FORM I VOA-TIC

883750091

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ANALYSIS REPORT FOR VOLATILE ORGANICS BY GC/MS

		DATA FILES	ANALYSIS DATE
CLIENT : KILLAM	Initial :	>J6907	07/30/93
LAB SAMPLE #: E320256	Dilution #1 :		
MATRIX : WATER	Dilution #2 :		
METHOD : EPA 624			

	COMPOUND	RESULT (ug/L)	MDL (ug/L)	Q
1)	ACROLEIN	ND	2.5	
2)	ACRYLONITRILE	ND	2.0	
3)	BENZENE	ND	0.84	
4)	BROMOFORM	ND	0.61	
5)	BROMODICHLOROMETHANE	ND	0.66	
6)	BROMOMETHANE	ND	1.0	
7)	CARBON TETRACHLORIDE	ND	0.75	
8)	CHLOROBENZENE	4.3	1.4	
9)	CHLOROETHANE	ND	1.0	
10)	2-CHLOROETHYL VINYL ETHER	ND	0.39	
11)	CHLOROFORM	ND	0.68	
12)	CHLOROMETHANE	ND	1.1	
13)	cis-1,3-DICHLOROPROPENE	ND	0.93	
14)	DIBROMOCHLOROMETHANE	ND	0.63	
15)	1,2-DICHLOROBENZENE	1.8	1.8	
16)	1,3-DICHLOROBENZENE	ND	2.0	
17)	1,4-DICHLOROBENZENE	1.6	2.2	J
18)	1,1-DICHLOROETHANE	ND	0.57	
19)	1,2-DICHLOROETHANE	ND	0.66	
20)	1,1-DICHLOROETHYLENE	ND	0.88	
21)	trans-1,2-DICHLOROETHYLENE	ND	0.94	
22)	trans-1,3-DICHLOROPROPENE	ND	0.70	
23)	1,2-DICHLOROPROPANE	ND	0.74	
24)	ETHYLBENZENE	ND	1.5	
25)	METHYLENE CHLORIDE	ND	0.84	
26)	1,1,2,2-TETRACHLOROETHANE	ND	0.56	
27)	TETRACHLOROETHYLENE	9.0	1.5	
28)	TOLUENE	ND	1.2	
29)	1,1,1-TRICHLOROETHANE	ND	0.65	
30)	1,1,2-TRICHLOROETHANE	ND	0.86	
31)	TRICHLOROETHYLENE	1.9	1.5	
32)	TRICHLOROFLUOROMETHANE	ND	0.90	
33)	VINYL CHLORIDE	ND	1.0	
34)	XYLENE (TOTAL)	ND	3.4	

ND = NOT DETECTED
MDL= METHOD DETECTION LIMIT

(1) - RESULTS REPORTED FROM DILUTION #1
(2) - RESULTS REPORTED FROM DILUTION #2

QUALIFIERS (Q)
J =INDICATES AN ESTIMATED VALUE BELOW MDL
B =INDICATES COMPOUND FOUND IN THE ASSOCIATED BLANK AS WELL AS IN SAMPLE
E =ESTIMATED VALUE; EXCEEDS INSTRUMENT CALIBRATION RANGE

CERTIFICATIONS: NJ (12129) • NY (10983) • PA (68-408) • MA (NJ141) • CT (PH-0585) • MD (167) • DE • VA (00004) • NC (346) • SC (94009) • TN (2968)

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: KILLAM

Lab Sample ID: E320256 ,

Date Analyzed: 7/30/93 16:19

Lab File ID: >J6907

Matrix: WATER FOR VOA

Number TICs found: 2 CONCENTRATION UNITS: ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST CONC	Q
1.	156592	Unknown	3.92	170.	#1
2.	~~156605~~	Ethene, 1,2-dichloro-, ~~(E)~~ (cis)- (9CI)	11.77	28.	
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
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13.					
14.					
15.					

QUALIFIERS(Q);
(1)-THIS COMPOUND (OR SIMILAR SPECTRA) FOUND IN LAB BLANK.
(2)-INTERNAL OR SURROGATE STANDARD ADDED BY LABORATORY.
(3)-THIS COMPOUND ALREADY IDENTIFIED AND REPORTED AS TARGET COMPOUND.
(4)-PROBABLE BACKGROUND DUE TO SOLVENT OR CO2.
(5)-OTHER:

FORM I VOA-TIC

883750093

mf

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ANALYSIS REPORT FOR VOLATILE ORGANICS BY GC/MS

			DATA FILES	ANALYSIS DATE
CLIENT	: KILLAM	Initial	: >J6908	07/30/93
LAB SAMPLE #	: E320257	Dilution #1	:	
MATRIX	: WATER	Dilution #2	:	
METHOD	: EPA 624			

	COMPOUND	RESULT (ug/L)	MDL (ug/L)	Q
1)	ACROLEIN	ND	2.5	
2)	ACRYLONITRILE	ND	2.0	
3)	BENZENE	ND	0.84	
4)	BROMOFORM	ND	0.61	
5)	BROMODICHLOROMETHANE	ND	0.66	
6)	BROMOMETHANE	ND	1.0	
7)	CARBON TETRACHLORIDE	ND	0.75	
8)	CHLOROBENZENE	72	1.4	
9)	CHLOROETHANE	ND	1.0	
10)	2-CHLOROETHYL VINYL ETHER	ND	0.39	
11)	CHLOROFORM	ND	0.68	
12)	CHLOROMETHANE	ND	1.1	
13)	cis-1,3-DICHLOROPROPENE	ND	0.93	
14)	DIBROMOCHLOROMETHANE	ND	0.63	
15)	1,2-DICHLOROBENZENE	180	1.8	
16)	1,3-DICHLOROBENZENE	6.4	2.0	
17)	1,4-DICHLOROBENZENE	15	2.2	
18)	1,1-DICHLOROETHANE	ND	0.57	
19)	1,2-DICHLOROETHANE	1.7	0.66	
20)	1,1-DICHLOROETHYLENE	ND	0.88	
21)	trans-1,2-DICHLOROETHYLENE	3.3	0.94	
22)	trans-1,3-DICHLOROPROPENE	ND	0.70	
23)	1,2-DICHLOROPROPANE	ND	0.74	
24)	ETHYLBENZENE	ND	1.5	
25)	METHYLENE CHLORIDE	ND	0.84	
26)	1,1,2,2-TETRACHLOROETHANE	ND	0.56	
27)	TETRACHLOROETHYLENE	25	1.5	
28)	TOLUENE	ND	1.2	
29)	1,1,1-TRICHLOROETHANE	1.3	0.65	
30)	1,1,2-TRICHLOROETHANE	ND	0.86	
31)	TRICHLOROETHYLENE	11	1.5	
32)	TRICHLOROFLUOROMETHANE	ND	0.90	
33)	VINYL CHLORIDE	23	1.0	
34)	XYLENE (TOTAL)	ND	3.4	

ND = NOT DETECTED
MDL= METHOD DETECTION LIMIT

(1) - RESULTS REPORTED FROM DILUTION #1
(2) - RESULTS REPORTED FROM DILUTION #2

QUALIFIERS (Q)
J =INDICATES AN ESTIMATED VALUE BELOW MDL
B =INDICATES COMPOUND FOUND IN THE ASSOCIATED BLANK AS WELL AS IN SAMPLE
E =ESTIMATED VALUE; EXCEEDS INSTRUMENT CALIBRATION RANGE

CERTIFICATIONS: NJ (12129) • NY (10983) • PA (68-408) • MA (NJ141) • CT (PH-0585) • MD (167) • DE • VA (00004) • NC (346) • SC (94009) • TN (2968)

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

1> QRP,^I5935,FBL-I-S

Client Name: KILLAM

Lab Sample ID: E320257 ,

Date Analyzed: 7/30/93 17:06

Lab File ID: >J6908

Matrix: WATER FOR VOA

Number TICs found: 3 CONCENTRATION UNITS: ug/L

CAS NUMBER	COMPOUND NAME	RT	EST CONC	Q
1.	UNKNOWN	3.88	220.	1
2. 108203	Diisopropyl ether (DOT)	10.70	7.	
3. 156592	Ethene, 1,2-dichloro-, (Z)-(9CI) cc157	11.75	380.	
4.				
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6.				
7.				
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9.				
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13.				
14.				
15.				

QUALIFIERS(Q);
(1)-THIS COMPOUND (OR SIMILAR SPECTRA) FOUND IN LAB BLANK.
(2)-INTERNAL OR SURROGATE STANDARD ADDED BY LABORATORY.
(3)-THIS COMPOUND ALREADY IDENTIFIED AND REPORTED AS TARGET COMPOUND.
(4)-PROBABLE BACKGROUND DUE TO SOLVENT OR CO2.
(5)-OTHER:

FORM I VOA-TIC

883750095

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ANALYSIS REPORT FOR VOLATILE ORGANICS BY GC/MS

		DATA FILES	ANALYSIS DATE
CLIENT : KILLAM	Initial :	>J6893	07/30/93
LAB SAMPLE #: E320258	Dilution #1 :	>J6918	07/31/93
MATRIX : WATER	Dilution #2 :		
METHOD : EPA 624			

	COMPOUND	RESULT (ug/L)	MDL (ug/L)	Q
1)	ACROLEIN	ND	25	
2)	ACRYLONITRILE	ND	20	
3)	BENZENE	19	8.4	
4)	BROMOFORM	ND	6.1	
5)	BROMODICHLOROMETHANE	ND	6.6	
6)	BROMOMETHANE	ND	10	
7)	CARBON TETRACHLORIDE	ND	7.5	
8)	CHLOROBENZENE	560	14	
9)	CHLOROETHANE	ND	10	
10)	2-CHLOROETHYL VINYL ETHER	ND	3.9	
11)	CHLOROFORM	ND	6.8	
12)	CHLOROMETHANE	ND	11	
13)	cis-1,3-DICHLOROPROPENE	ND	9.3	
14)	DIBROMOCHLOROMETHANE	ND	6.3	
15)	1,2-DICHLOROBENZENE	1000	18	
16)	1,3-DICHLOROBENZENE	32	20	
17)	1,4-DICHLOROBENZENE	110	22	
18)	1,1-DICHLOROETHANE	330	5.7	
19)	1,2-DICHLOROETHANE	590	6.6	
20)	1,1-DICHLOROETHYLENE	55	8.8	
21)	trans-1,2-DICHLOROETHYLENE	40	9.4	
22)	trans-1,3-DICHLOROPROPENE	ND	7.0	
23)	1,2-DICHLOROPROPANE	ND	7.4	
24)	ETHYLBENZENE	24	15	
25)	METHYLENE CHLORIDE	11000(1)	84	
26)	1,1,2,2-TETRACHLOROETHANE	ND	5.6	
27)	TETRACHLOROETHYLENE	1700	15	
28)	TOLUENE	180	12	
29)	1,1,1-TRICHLOROETHANE	1600	6.5	
30)	1,1,2-TRICHLOROETHANE	ND	8.6	
31)	TRICHLOROETHYLENE	1800	15	
32)	TRICHLOROFLUOROMETHANE	ND	9.0	
33)	VINYL CHLORIDE	ND	10	
34)	XYLENE (TOTAL)	240	34	

ND = NOT DETECTED
MDL= METHOD DETECTION LIMIT

(1) - RESULTS REPORTED FROM DILUTION #1
(2) - RESULTS REPORTED FROM DILUTION #2

QUALIFIERS (Q)
J =INDICATES AN ESTIMATED VALUE BELOW MDL
B =INDICATES COMPOUND FOUND IN THE ASSOCIATED BLANK AS WELL AS IN SAMPLE
E =ESTIMATED VALUE; EXCEEDS INSTRUMENT CALIBRATION RANGE

CERTIFICATIONS: NJ (12129) • NY (10983) • PA (68-408) • MA (NJ141) • CT (PH-0585) • MD (167) • DE • VA (00004) • NC (346) • SC (94009) • TN (2968)

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: KILLAM

Lab Sample ID: F320258

Date Analyzed: 7/30/93 4:59

Lab File ID: >J6893

Matrix: WATER FOR VOA

Number TICs found: 8 CONCENTRATION UNITS: ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST CONC	Q
1.	156605	Ethene, 1,2-dichloro-, (E)- (9CI) CCLSP	11.80	160.	
2.	7094260	Cyclohexane, 1,1,2-trimethyl- (8CI	25.28	40.	
3.	620144	Benzene, 1-ethyl-3-methyl- (9CI)	25.87	160.	
4.	108678	Benzene, 1,3,5-trimethyl- (9CI)	26.08	98.	
5.	124185	Decane (8CI9CI)	26.22	140.	
6.	611143	Benzene, 1-ethyl-2-methyl- (9CI)	26.63	84.	
7.	95636	Benzene, 1,2,4-trimethyl- (8CI9CI)	27.12	240.	
8.	526738	Benzene, 1,2,3-trimethyl- (8CI9CI)	28.29	37.	
9.					
10.					
11.					
12.					
13.					
14.					
15.					

QUALIFIERS(Q);

(1)-THIS COMPOUND (OR SIMILAR SPECTRA) FOUND IN LAB BLANK.

(2)-INTERNAL OR SURROGATE STANDARD ADDED BY LABORATORY.

(3)-THIS COMPOUND ALREADY IDENTIFIED AND REPORTED AS TARGET COMPOUND.

(4)-PROBABLE BACKGROUND DUE TO SOLVENT OR CO2.

(5)-OTHER:

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ANALYSIS REPORT FOR VOLATILE ORGANICS BY GC/MS

		DATA FILES	ANALYSIS DATE
CLIENT : KILLAM	Initial :	>J6909	07/30/93
LAB SAMPLE #: E320259	Dilution #1 :		
MATRIX : WATER	Dilution #2 :		
METHOD : EPA 624			

	COMPOUND	RESULT (ug/L)	MDL (ug/L)	Q
1)	ACROLEIN	ND	2.5	
2)	ACRYLONITRILE	ND	2.0	
3)	BENZENE	1.8	0.84	
4)	BROMOFORM	ND	0.61	
5)	BROMODICHLOROMETHANE	ND	0.66	
6)	BROMOMETHANE	ND	1.0	
7)	CARBON TETRACHLORIDE	ND	0.75	
8)	CHLOROBENZENE	20	1.4	
9)	CHLOROETHANE	ND	1.0	
10)	2-CHLOROETHYL VINYL ETHER	ND	0.39	
11)	CHLOROFORM	ND	0.68	
12)	CHLOROMETHANE	ND	1.1	
13)	cis-1,3-DICHLOROPROPENE	ND	0.93	
14)	DIBROMOCHLOROMETHANE	ND	0.63	
15)	1,2-DICHLOROBENZENE	7.1	1.8	
16)	1,3-DICHLOROBENZENE	1.0	2.0	J
17)	1,4-DICHLOROBENZENE	2.5	2.2	
18)	1,1-DICHLOROETHANE	5.5	0.57	
19)	1,2-DICHLOROETHANE	ND	0.66	
20)	1,1-DICHLOROETHYLENE	ND	0.88	
21)	trans-1,2-DICHLOROETHYLENE	ND	0.94	
22)	trans-1,3-DICHLOROPROPENE	ND	0.70	
23)	1,2-DICHLOROPROPANE	ND	0.74	
24)	ETHYLBENZENE	ND	1.5	
25)	METHYLENE CHLORIDE	8.3	0.84	
26)	1,1,2,2-TETRACHLOROETHANE	ND	0.56	
27)	TETRACHLOROETHYLENE	ND	1.5	
28)	TOLUENE	ND	1.2	
29)	1,1,1-TRICHLOROETHANE	ND	0.65	
30)	1,1,2-TRICHLOROETHANE	ND	0.86	
31)	TRICHLOROETHYLENE	ND	1.5	
32)	TRICHLOROFLUOROMETHANE	ND	0.90	
33)	VINYL CHLORIDE	69	1.0	
34)	XYLENE (TOTAL)	ND	3.4	

ND = NOT DETECTED
MDL= METHOD DETECTION LIMIT

(1) - RESULTS REPORTED FROM DILUTION #1
(2) - RESULTS REPORTED FROM DILUTION #2

QUALIFIERS (Q)
J =INDICATES AN ESTIMATED VALUE BELOW MDL
B =INDICATES COMPOUND FOUND IN THE ASSOCIATED BLANK AS WELL AS IN SAMPLE
E =ESTIMATED VALUE; EXCEEDS INSTRUMENT CALIBRATION RANGE

CERTIFICATIONS: NJ (12129) • NY (10983) • PA (68-408) • MA (NJ141) • CT (PH-0585) • MD (167) • DE • VA (00004) • NC (346) • SC (94009) • TN (2968)

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: KILLAM

Lab Sample ID: E320259 ,

Date Analyzed: 7/30/93 17:52

Lab File ID: >J6909

Matrix: WATER FOR VOA

Number TICs found: 3 CONCENTRATION UNITS: ug/L

CAS NUMBER	COMPOUND NAME	RT	EST CONC	Q
1.	Unknown	3.89	230.	
2. 108203	Diisopropyl ether (DOT)	10.71	9.	
3. 156592	Ethene, 1,2-dichloro-, (Z)- (cis-) (9CI)	11.77	81.	
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5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				

QUALIFIERS(Q);
(1)-THIS COMPOUND (OR SIMILAR SPECTRA) FOUND IN LAB BLANK.
(2)-INTERNAL OR SURROGATE STANDARD ADDED BY LABORATORY.
(3)-THIS COMPOUND ALREADY IDENTIFIED AND REPORTED AS TARGET COMPOUND.
(4)-PROBABLE BACKGROUND DUE TO SOLVENT OR CO2.
(5)-OTHER:

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ANALYSIS REPORT FOR VOLATILE ORGANICS BY GC/MS

		DATA FILES	ANALYSIS DATE
CLIENT : KILLAM	Initial :	>J6895	07/30/93
LAB SAMPLE #: E320260	Dilution #1 :	>J6915	07/30/93
MATRIX : WATER	Dilution #2 :		
METHOD : EPA 624			

	COMPOUND	RESULT (ug/L)	MDL (ug/L)	Q
1)	ACROLEIN	ND	25	
2)	ACRYLONITRILE	ND	20	
3)	BENZENE	15	8.4	
4)	BROMOFORM	ND	6.1	
5)	BROMODICHLOROMETHANE	ND	6.6	
6)	BROMOMETHANE	ND	10	
7)	CARBON TETRACHLORIDE	ND	7.5	
8)	CHLOROBENZENE	240	14	
9)	CHLOROETHANE	ND	10	
10)	2-CHLOROETHYL VINYL ETHER	ND	3.9	
11)	CHLOROFORM	ND	6.8	
12)	CHLOROMETHANE	ND	11	
13)	cis-1,3-DICHLOROPROPENE	ND	9.3	
14)	DIBROMOCHLOROMETHANE	ND	6.3	
15)	1,2-DICHLOROBENZENE	1200	18	
16)	1,3-DICHLOROBENZENE	100	20	
17)	1,4-DICHLOROBENZENE	170	22	
18)	1,1-DICHLOROETHANE	250	5.7	
19)	1,2-DICHLOROETHANE	450	6.6	
20)	1,1-DICHLOROETHYLENE	120	8.8	
21)	trans-1,2-DICHLOROETHYLENE	61	9.4	
22)	trans-1,3-DICHLOROPROPENE	ND	7.0	
23)	1,2-DICHLOROPROPANE	ND	7.4	
24)	ETHYLBENZENE	15	15	
25)	METHYLENE CHLORIDE	5800(1)	42	
26)	1,1,2,2-TETRACHLOROETHANE	ND	5.6	
27)	TETRACHLOROETHYLENE	2600	15	
28)	TOLUENE	360	12	
29)	1,1,1-TRICHLOROETHANE	1700	6.5	
30)	1,1,2-TRICHLOROETHANE	ND	8.6	
31)	TRICHLOROETHYLENE	3800	15	
32)	TRICHLOROFLUOROMETHANE	ND	9.0	
33)	VINYL CHLORIDE	ND	10	
34)	XYLENE (TOTAL)	140	34	

ND = NOT DETECTED
MDL= METHOD DETECTION LIMIT

(1) - RESULTS REPORTED FROM DILUTION #1
(2) - RESULTS REPORTED FROM DILUTION #2

QUALIFIERS (Q)
J =INDICATES AN ESTIMATED VALUE BELOW MDL
B =INDICATES COMPOUND FOUND IN THE ASSOCIATED BLANK AS WELL AS IN SAMPLE
E =ESTIMATED VALUE; EXCEEDS INSTRUMENT CALIBRATION RANGE

CERTIFICATIONS: NJ (12129) • NY (10983) • PA (68-408) • MA (NJ141) • CT (PH-0585) • MD (167) • DE • VA (00004) • NC (346) • SC (94009) • TN (2968)

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: KILLAM

Lab Sample ID: E320260 ,

Date Analyzed: 7/30/93 6:30

Lab File ID: >J6895

Matrix: WATER FOR VOA

Number TICs found: 14 CONCENTRATION UNITS: ug/L

CAS NUMBER	COMPOUND NAME	RT	EST CONC	Q
1.	Unknown (cis-1,2-dichloroethylene)	11.84	35000.	
2. 15869940	Octane, 3,6-dimethyl- (8CI9CI)	23.92	47.	
3. 1678928	Cyclohexane, propyl- (8CI9CI)	24.15	65.	
4. 5881174	Octane, 3-ethyl- (8CI9CI)	25.27	93.	
5. 611143	Benzene, 1-ethyl-2-methyl- (9CI)	25.85	300.	
6. 108678	Benzene, 1,3,5-trimethyl- (9CI)	26.09	160.	
7. 124185	Decane (8CI9CI)	26.20	380.	
8. 622968	Benzene, 1-ethyl-4-methyl- (9CI)	26.63	190.	
9. 622968	Benzene, 1-ethyl-4-methyl- (9CI)	27.10	520.	
10. 1074437	Benzene, 1-methyl-3-propyl- (9CI)	28.92	93.	
11. 1120214	Undecane (8CI9CI)	29.59	180.	
12. 535773	Benzene, 1-methyl-3-(1-methylethyl	29.94	99.	
13. 535773	Benzene, 1-methyl-3-(1-methylethyl	30.17	100.	
14. 135013	Benzene, 1,2-diethyl- (9CI)	30.50	56.	
15.				

QUALIFIERS(Q);
(1)-THIS COMPOUND (OR SIMILAR SPECTRA) FOUND IN LAB BLANK.
(2)-INTERNAL OR SURROGATE STANDARD ADDED BY LABORATORY.
(3)-THIS COMPOUND ALREADY IDENTIFIED AND REPORTED AS TARGET COMPOUND.
(4)-PROBABLE BACKGROUND DUE TO SOLVENT OR CO2.
(5)-OTHER:

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ANALYSIS REPORT FOR VOLATILE ORGANICS BY GC/MS

			DATA FILES	ANALYSIS DATE
CLIENT	: KILLAM	Initial	: >J6896	07/30/93
LAB SAMPLE #	: E320261	Dilution #1	: >J6916	07/30/93
MATRIX	: WATER	Dilution #2	:	
METHOD	: EPA 624			

	COMPOUND	RESULT (ug/L)	MDL (ug/L)	Q
1)	ACROLEIN	ND	25	
2)	ACRYLONITRILE	ND	20	
3)	BENZENE	280	8.4	
4)	BROMOFORM	ND	6.1	
5)	BROMODICHLOROMETHANE	ND	6.6	
6)	BROMOMETHANE	ND	10	
7)	CARBON TETRACHLORIDE	ND	7.5	
8)	CHLOROBENZENE	7100(1)	280	
9)	CHLOROETHANE	ND	10	
10)	2-CHLOROETHYL VINYL ETHER	ND	3.9	
11)	CHLOROFORM	ND	6.8	
12)	CHLOROMETHANE	ND	11	
13)	cis-1,3-DICHLOROPROPENE	ND	9.3	
14)	DIBROMOCHLOROMETHANE	ND	6.3	
15)	1,2-DICHLOROBENZENE	880	18	
16)	1,3-DICHLOROBENZENE	27	20	
17)	1,4-DICHLOROBENZENE	940	22	
18)	1,1-DICHLOROETHANE	71	5.7	
19)	1,2-DICHLOROETHANE	820	6.6	
20)	1,1-DICHLOROETHYLENE	ND	8.8	
21)	trans-1,2-DICHLOROETHYLENE	80	9.4	
22)	trans-1,3-DICHLOROPROPENE	ND	7.0	
23)	1,2-DICHLOROPROPANE	ND	7.4	
24)	ETHYLBENZENE	110	15	
25)	METHYLENE CHLORIDE	ND	8.4	
26)	1,1,2,2-TETRACHLOROETHANE	ND	5.6	
27)	TETRACHLOROETHYLENE	ND	15	
28)	TOLUENE	160	12	
29)	1,1,1-TRICHLOROETHANE	ND	6.5	
30)	1,1,2-TRICHLOROETHANE	ND	8.6	
31)	TRICHLOROETHYLENE	23	15	
32)	TRICHLOROFLUOROMETHANE	ND	9.0	
33)	VINYL CHLORIDE	28000(1)	200	
34)	XYLENE (TOTAL)	290	34	

ND = NOT DETECTED
MDL= METHOD DETECTION LIMIT

(1) - RESULTS REPORTED FROM DILUTION #1
(2) - RESULTS REPORTED FROM DILUTION #2

QUALIFIERS (Q)
J =INDICATES AN ESTIMATED VALUE BELOW MDL
B =INDICATES COMPOUND FOUND IN THE ASSOCIATED BLANK AS WELL AS IN SAMPLE
E =ESTIMATED VALUE; EXCEEDS INSTRUMENT CALIBRATION RANGE

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: KILLAM

Lab Sample ID: E320261 ,

Date Analyzed: 7/30/93 7:15

Lab File ID: >J6896

Matrix: WATER FOR VOA

Number TICs found: 2 CONCENTRATION UNITS: ug/L

CAS NUMBER	COMPOUND NAME	RT	EST CONC	Q
1.	Unknown (cis-1,2-Dichloroethylene) p.o	11.86	42000.	
2. 108101	2-Pentanone, 4-methyl- (8C19C1)	17.89	1300.	
3.				
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5.				
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9.				
10.				
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14.				
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QUALIFIERS(Q);
(1)-THIS COMPOUND (OR SIMILAR SPECTRA) FOUND IN LAB BLANK.
(2)-INTERNAL OR SURROGATE STANDARD ADDED BY LABORATORY.
(3)-THIS COMPOUND ALREADY IDENTIFIED AND REPORTED AS TARGET COMPOUND.
(4)-PROBABLE BACKGROUND DUE TO SOLVENT OR CO2.
(5)-OTHER:

FORM I VOA-TIC

18mE

883750103

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ANALYSIS REPORT FOR VOLATILE ORGANICS BY GC/MS

			DATA FILES	ANALYSIS DATE
CLIENT	: KILLAM	Initial	: >J6904	07/30/93
LAB SAMPLE #	: E320262	Dilution #1	:	
MATRIX	: WATER	Dilution #2	:	
METHOD	: EPA 624			

	COMPOUND	RESULT (ug/L)	MDL (ug/L)	Q
1)	ACROLEIN	ND	2.5	
2)	ACRYLONITRILE	ND	2.0	
3)	BENZENE	ND	0.84	
4)	BROMOFORM	ND	0.61	
5)	BROMODICHLOROMETHANE	ND	0.66	
6)	BROMOMETHANE	ND	1.0	
7)	CARBON TETRACHLORIDE	ND	0.75	
8)	CHLOROBENZENE	ND	1.4	
9)	CHLOROETHANE	ND	1.0	
10)	2-CHLOROETHYL VINYL ETHER	ND	0.39	
11)	CHLOROFORM	ND	0.68	
12)	CHLOROMETHANE	ND	1.1	
13)	cis-1,3-DICHLOROPROPENE	ND	0.93	
14)	DIBROMOCHLOROMETHANE	ND	0.63	
15)	1,2-DICHLOROBENZENE	ND	1.8	
16)	1,3-DICHLOROBENZENE	ND	2.0	
17)	1,4-DICHLOROBENZENE	ND	2.2	
18)	1,1-DICHLOROETHANE	ND	0.57	
19)	1,2-DICHLOROETHANE	ND	0.66	
20)	1,1-DICHLOROETHYLENE	ND	0.88	
21)	trans-1,2-DICHLOROETHYLENE	ND	0.94	
22)	trans-1,3-DICHLOROPROPENE	ND	0.70	
23)	1,2-DICHLOROPROPANE	ND	0.74	
24)	ETHYLBENZENE	ND	1.5	
25)	METHYLENE CHLORIDE	ND	0.84	
26)	1,1,2,2-TETRACHLOROETHANE	ND	0.56	
27)	TETRACHLOROETHYLENE	ND	1.5	
28)	TOLUENE	1.2	1.2	
29)	1,1,1-TRICHLOROETHANE	ND	0.65	
30)	1,1,2-TRICHLOROETHANE	ND	0.86	
31)	TRICHLOROETHYLENE	ND	1.5	
32)	TRICHLOROFLUOROMETHANE	ND	0.90	
33)	VINYL CHLORIDE	ND	1.0	
34)	XYLENE (TOTAL)	ND	3.4	

ND = NOT DETECTED
MDL= METHOD DETECTION LIMIT

(1) - RESULTS REPORTED FROM DILUTION #1
(2) - RESULTS REPORTED FROM DILUTION #2

QUALIFIERS (Q)
J =INDICATES AN ESTIMATED VALUE BELOW MDL
B =INDICATES COMPOUND FOUND IN THE ASSOCIATED BLANK AS WELL AS IN SAMPLE
E =ESTIMATED VALUE; EXCEEDS INSTRUMENT CALIBRATION RANGE

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: KILLAM

Lab Sample ID: E320262

Date Analyzed: 7/30/93 13:56

Lab File ID: >J6904

Matrix: WATER FOR VOA

Number TICs found: 1 CONCENTRATION UNITS: ug/L

CAS NUMBER	COMPOUND NAME	RT	EST CONC	Q
1.	Unknown	3.93	180.	1
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				

QUALIFIERS(Q);

(1)-THIS COMPOUND (OR SIMILAR SPECTRA) FOUND IN LAB BLANK.

(2)-INTERNAL OR SURROGATE STANDARD ADDED BY LABORATORY.

(3)-THIS COMPOUND ALREADY IDENTIFIED AND REPORTED AS TARGET COMPOUND.

(4)-PROBABLE BACKGROUND DUE TO SOLVENT OR CO2.

(5)-OTHER:

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ANALYSIS REPORT FOR VOLATILE ORGANICS BY GC/MS

			DATA FILES	ANALYSIS DATE
CLIENT	: KILLAM	Initial	: >J6898	07/30/93
LAB SAMPLE #	: E320263	Dilution #1	: >J6914	07/30/93
MATRIX	: WATER	Dilution #2	:	
METHOD	: EPA 624			

	COMPOUND	RESULT (ug/L)	MDL (ug/L)	Q
1)	ACROLEIN	ND	13	
2)	ACRYLONITRILE	ND	10	
3)	BENZENE	24	4.2	
4)	BROMOFORM	ND	3.1	
5)	BROMODICHLOROMETHANE	ND	3.3	
6)	BROMOMETHANE	ND	5.0	
7)	CARBON TETRACHLORIDE	ND	3.8	
8)	CHLOROBENZENE	2400(1)	70	
9)	CHLOROETHANE	ND	5.0	
10)	2-CHLOROETHYL VINYL ETHER	ND	2.0	
11)	CHLOROFORM	ND	3.4	
12)	CHLOROMETHANE	ND	5.5	
13)	cis-1,3-DICHLOROPROPENE	ND	4.6	
14)	DIBROMOCHLOROMETHANE	ND	3.2	
15)	1,2-DICHLOROBENZENE	40	9.0	
16)	1,3-DICHLOROBENZENE	56	10	
17)	1,4-DICHLOROBENZENE	200	11	
18)	1,1-DICHLOROETHANE	21	2.9	
19)	1,2-DICHLOROETHANE	ND	3.3	
20)	1,1-DICHLOROETHYLENE	ND	4.4	
21)	trans-1,2-DICHLOROETHYLENE	ND	4.7	
22)	trans-1,3-DICHLOROPROPENE	ND	3.5	
23)	1,2-DICHLOROPROPANE	ND	3.7	
24)	ETHYLBENZENE	ND	7.5	
25)	METHYLENE CHLORIDE	ND	4.2	
26)	1,1,2,2-TETRACHLOROETHANE	ND	2.8	
27)	TETRACHLOROETHYLENE	ND	7.5	
28)	TOLUENE	14	6.0	
29)	1,1,1-TRICHLOROETHANE	ND	3.3	
30)	1,1,2-TRICHLOROETHANE	ND	4.3	
31)	TRICHLOROETHYLENE	ND	7.5	
32)	TRICHLOROFLUOROMETHANE	ND	4.5	
33)	VINYL CHLORIDE	670	5.0	
34)	XYLENE (TOTAL)	30	17	

ND = NOT DETECTED
MDL= METHOD DETECTION LIMIT

(1) - RESULTS REPORTED FROM DILUTION #1
(2) - RESULTS REPORTED FROM DILUTION #2

QUALIFIERS (Q)
J =INDICATES AN ESTIMATED VALUE BELOW MDL
B =INDICATES COMPOUND FOUND IN THE ASSOCIATED BLANK AS WELL AS IN SAMPLE
E =ESTIMATED VALUE; EXCEEDS INSTRUMENT CALIBRATION RANGE

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: KILLAM

Lab Sample ID: E320263 ,

Date Analyzed: 7/30/93 8:48

Lab File ID: >J6898

Matrix: WATER FOR VOA

Number TICs found: 3 CONCENTRATION UNITS: ug/L

CAS NUMBER	COMPOUND NAME	RT	EST CONC	Q
1.	Unknown	3.92	530.	1
2. 156592	Ethene, 1,2-dichloro-, (Z)- (cis-) (9CI)	11.80	1900.	
3. 108101	2-Pentanone, 4-methyl- (8CI9CI)	17.86	33.	
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				

QUALIFIERS(Q);
(1)-THIS COMPOUND (OR SIMILAR SPECTRA) FOUND IN LAB BLANK.
(2)-INTERNAL OR SURROGATE STANDARD ADDED BY LABORATORY.
(3)-THIS COMPOUND ALREADY IDENTIFIED AND REPORTED AS TARGET COMPOUND.
(4)-PROBABLE BACKGROUND DUE TO SOLVENT OR CO2.
(5)-OTHER:

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ANALYSIS REPORT FOR VOLATILE ORGANICS BY GC/MS

			DATA FILES	ANALYSIS DATE
CLIENT	: KILLAM	Initial	: >J6917	07/30/93
LAB SAMPLE #	: E320264	Dilution #1	: >J6960	08/03/93
MATRIX	: WATER	Dilution #2	:	
METHOD	: EPA 624			

	COMPOUND	RESULT (ug/L)	MDL (ug/L)	Q
1)	ACROLEIN	ND	250	
2)	ACRYLONITRILE	ND	200	
3)	BENZENE	ND	84	
4)	BROMOFORM	ND	61	
5)	BROMODICHLOROMETHANE	ND	66	
6)	BROMOMETHANE	ND	100	
7)	CARBON TETRACHLORIDE	ND	75	
8)	CHLOROBENZENE	760	140	
9)	CHLOROETHANE	ND	100	
10)	2-CHLOROETHYL VINYL ETHER	ND	39	
11)	CHLOROFORM	ND	68	
12)	CHLOROMETHANE	ND	110	
13)	cis-1,3-DICHLOROPROPENE	ND	93	
14)	DIBROMOCHLOROMETHANE	ND	63	
15)	1,2-DICHLOROBENZENE	2100	180	
16)	1,3-DICHLOROBENZENE	ND	200	
17)	1,4-DICHLOROBENZENE	190	220	J
18)	1,1-DICHLOROETHANE	860	57	
19)	1,2-DICHLOROETHANE	670	66	
20)	1,1-DICHLOROETHYLENE	ND	88	
21)	trans-1,2-DICHLOROETHYLENE	ND	94	
22)	trans-1,3-DICHLOROPROPENE	ND	70	
23)	1,2-DICHLOROPROPANE	ND	74	
24)	ETHYLBENZENE	240	150	
25)	METHYLENE CHLORIDE	270000(1)	1700	
26)	1,1,2,2-TETRACHLOROETHANE	ND	56	
27)	TETRACHLOROETHYLENE	1200	150	
28)	TOLUENE	3100	120	
29)	1,1,1-TRICHLOROETHANE	2000	65	
30)	1,1,2-TRICHLOROETHANE	ND	86	
31)	TRICHLOROETHYLENE	3400	150	
32)	TRICHLOROFLUOROMETHANE	ND	90	
33)	VINYL CHLORIDE	ND	100	
34)	XYLENE (TOTAL)	700	340	

ND = NOT DETECTED
MDL= METHOD DETECTION LIMIT

(1) - RESULTS REPORTED FROM DILUTION #1
(2) - RESULTS REPORTED FROM DILUTION #2

QUALIFIERS (Q)
J =INDICATES AN ESTIMATED VALUE BELOW MDL
B =INDICATES COMPOUND FOUND IN THE ASSOCIATED BLANK AS WELL AS IN SAMPLE
E =ESTIMATED VALUE; EXCEEDS INSTRUMENT CALIBRATION RANGE

CI> /
--020/359-- Commands: [CI.STK::SC]
FMGT
EDIT,COPY1

CERTIFICATIONS: NJ (12129) • NY (10983) • PA (68-408) • MA (NJ141) • CT (PH-0585) • MD (167) • DE • VA (00004) • NC (346) • SC (94009) • TN (2968)

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: KILLAM

Lab Sample ID: E320264 ,

Date Analyzed: 7/30/93 23:56

Lab File ID: >J6917

Matrix: WATER FOR VOA

Number TICs found: 9 CONCENTRATION UNITS: ug/L

CAS NUMBER	COMPOUND NAME	RT	EST CONC	Q
1.	Unknown	3.88	2900.	1
2.	Unknown	5.21	1400.	1
3. 75092	Methane, dichloro- (8CI9CI)	9.38	27000.	3
4. 156592	Ethene, 1,2-dichloro-, ~~(Z)~~ (cis)- (9CI)	11.78	120000.	
5. 611143	Benzene, 1-ethyl-2-methyl- (9CI)	25.82	1200.	
6. 526738	Benzene, 1,2,3-trimethyl- (8CI9CI)	26.06	610.	
7. 611143	Benzene, 1-ethyl-2-methyl- (9CI)	26.61	460.	
8. 611143	Benzene, 1-ethyl-2-methyl- (9CI)	27.09	1200.	
9. 526738	Benzene, 1,2,3-trimethyl- (8CI9CI)	28.22	320.	
10.				
11.				
12.				
13.				
14.				
15.				

QUALIFIERS(Q);
(1)-THIS COMPOUND (OR SIMILAR SPECTRA) FOUND IN LAB BLANK.
(2)-INTERNAL OR SURROGATE STANDARD ADDED BY LABORATORY.
(3)-THIS COMPOUND ALREADY IDENTIFIED AND REPORTED AS TARGET COMPOUND.
(4)-PROBABLE BACKGROUND DUE TO SOLVENT OR CO2.
(5)-OTHER:

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ANALYSIS REPORT FOR VOLATILE ORGANICS BY GC/MS

		DATA FILES	ANALYSIS DATE
CLIENT : KILLAM	Initial :	>G7320	07/31/93
LAB SAMPLE #: E320265	Dilution #1 :	>G7346	08/02/93
MATRIX : WATER	Dilution #2 :		
METHOD : EPA 624			

	COMPOUND	RESULT (ug/L)	MDL (ug/L)	Q
1)	ACROLEIN	ND	13	
2)	ACRYLONITRILE	ND	10	
3)	BENZENE	32	4.2	
4)	BROMOFORM	ND	3.1	
5)	BROMODICHLOROMETHANE	ND	3.3	
6)	BROMOMETHANE	ND	5.0	
7)	CARBON TETRACHLORIDE	ND	3.8	
8)	CHLOROBENZENE	100	7.0	
9)	CHLOROETHANE	ND	5.0	
10)	2-CHLOROETHYL VINYL ETHER	ND	2.0	
11)	CHLOROFORM	ND	3.4	
12)	CHLOROMETHANE	ND	5.5	
13)	cis-1,3-DICHLOROPROPENE	ND	4.6	
14)	DIBROMOCHLOROMETHANE	ND	3.2	
15)	1,2-DICHLOROBENZENE	59	9.0	
16)	1,3-DICHLOROBENZENE	9.6	10	J
17)	1,4-DICHLOROBENZENE	32	11	
18)	1,1-DICHLOROETHANE	42	2.9	
19)	1,2-DICHLOROETHANE	ND	3.3	
20)	1,1-DICHLOROETHYLENE	7.1	4.4	
21)	trans-1,2-DICHLOROETHYLENE	60	4.7	
22)	trans-1,3-DICHLOROPROPENE	ND	3.5	
23)	1,2-DICHLOROPROPANE	ND	3.7	
24)	ETHYLBENZENE	13	7.5	
25)	METHYLENE CHLORIDE	ND	4.2	
26)	1,1,2,2-TETRACHLOROETHANE	ND	2.8	
27)	TETRACHLOROETHYLENE	ND	7.5	
28)	TOLUENE	13	6.0	
29)	1,1,1-TRICHLOROETHANE	ND	3.3	
30)	1,1,2-TRICHLOROETHANE	ND	4.3	
31)	TRICHLOROETHYLENE	ND	7.5	
32)	TRICHLOROFLUOROMETHANE	ND	4.5	
33)	VINYL CHLORIDE	34000(1)	200	
34)	XYLENE (TOTAL)	81	17	

ND = NOT DETECTED
MDL= METHOD DETECTION LIMIT

(1) - RESULTS REPORTED FROM DILUTION #1
(2) - RESULTS REPORTED FROM DILUTION #2

QUALIFIERS (Q)
J =INDICATES AN ESTIMATED VALUE BELOW MDL
B =INDICATES COMPOUND FOUND IN THE ASSOCIATED BLANK AS WELL AS IN SAMPLE
E =ESTIMATED VALUE; EXCEEDS INSTRUMENT CALIBRATION RANGE

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: KILLAM

Lab Sample ID: E320265

Date Analyzed: 7/31/93 0:31

Lab File ID: >G7320

Matrix: WATER FOR VOA

Number TICs found: 15 CONCENTRATION UNITS: ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST CONC	Q
1.		Unknown	3.20	190.	1
2.	156605	Ethene, 1,2-dichloro-, (E) (cis?) (9CI)	9.80	380.	
3.	156592	Ethene, 1,2-dichloro-, (Z) (cis?) (9CI)	10.00	650.	
4.	98828	Benzene, (1-methylethyl)- (9CI)	22.60	25.	
5.	103651	Benzene, propyl- (8CI9CI)	23.73	50.	
6.	611143	Benzene, 1-ethyl-2-methyl- (9CI)	24.00	100.	
7.	526738	Benzene, 1,2,3-trimethyl- (8CI9CI)	24.26	130.	
8.	611143	Benzene, 1-ethyl-2-methyl- (9CI)	24.79	160.	
9.	95636	Benzene, 1,2,4-trimethyl- (8CI9CI)	25.28	660.	
10.	1074551	Benzene, 1-methyl-4-propyl- (9CI)	25.77	25.	
11.	7175475	Benzene, 1-isocyano-4-methyl- (9CI	26.98	34.	
12.	1074551	Benzene, 1-methyl-4-propyl- (9CI)	27.82	22.	
13.	535773	Benzene, 1-methyl-3-(1-methylethyl	28.17	45.	
14.	25155151	Benzene, methyl(1-methylethyl)- (9	28.41	36.	
15.	767588	1H-Indene, 2,3-dihydro-1-methyl- (	28.64	27.	

QUALIFIERS(Q);
(1)-THIS COMPOUND (OR SIMILAR SPECTRA) FOUND IN LAB BLANK.
(2)-INTERNAL OR SURROGATE STANDARD ADDED BY LABORATORY.
(3)-THIS COMPOUND ALREADY IDENTIFIED AND REPORTED AS TARGET COMPOUND.
(4)-PROBABLE BACKGROUND DUE TO SOLVENT OR CO2.
(5)-OTHER:

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ANALYSIS REPORT FOR VOLATILE ORGANICS BY GC/MS

			DATA FILES	ANALYSIS DATE
CLIENT	: KILLAM	Initial	: >G7319	07/30/93
LAB SAMPLE #:	E320266	Dilution #1	:	
MATRIX	: WATER	Dilution #2	:	
METHOD	: EPA 624			

	COMPOUND	RESULT (ug/L)	MDL (ug/L)	Q
1)	ACROLEIN	ND	2.5	
2)	ACRYLONITRILE	ND	2.0	
3)	BENZENE	ND	0.84	
4)	BROMOFORM	ND	0.61	
5)	BROMODICHLOROMETHANE	ND	0.66	
6)	BROMOMETHANE	ND	1.0	
7)	CARBON TETRACHLORIDE	ND	0.75	
8)	CHLOROBENZENE	17	1.4	
9)	CHLOROETHANE	ND	1.0	
10)	2-CHLOROETHYL VINYL ETHER	ND	0.39	
11)	CHLOROFORM	ND	0.68	
12)	CHLOROMETHANE	ND	1.1	
13)	cis-1,3-DICHLOROPROPENE	ND	0.93	
14)	DIBROMOCHLOROMETHANE	ND	0.63	
15)	1,2-DICHLOROBENZENE	65	1.8	
16)	1,3-DICHLOROBENZENE	4.6	2.0	
17)	1,4-DICHLOROBENZENE	8.1	2.2	
18)	1,1-DICHLOROETHANE	39	0.57	
19)	1,2-DICHLOROETHANE	0.99	0.66	
20)	1,1-DICHLOROETHYLENE	0.87	0.88	J
21)	trans-1,2-DICHLOROETHYLENE	6.1	0.94	
22)	trans-1,3-DICHLOROPROPENE	ND	0.70	
23)	1,2-DICHLOROPROPANE	ND	0.74	
24)	ETHYLBENZENE	5.5	1.5	
25)	METHYLENE CHLORIDE	ND	0.84	
26)	1,1,2,2-TETRACHLOROETHANE	ND	0.56	
27)	TETRACHLOROETHYLENE	79	1.5	
28)	TOLUENE	3.2	1.2	
29)	1,1,1-TRICHLOROETHANE	23	0.65	
30)	1,1,2-TRICHLOROETHANE	ND	0.86	
31)	TRICHLOROETHYLENE	29	1.5	
32)	TRICHLOROFLUOROMETHANE	ND	0.90	
33)	VINYL CHLORIDE	13	1.0	
34)	XYLENE (total)	36	3.4	

ND = NOT DETECTED
MDL= METHOD DETECTION LIMIT

(1) - RESULTS REPORTED FROM DILUTION #1
(2) - RESULTS REPORTED FROM DILUTION #2

QUALIFIERS (Q)
J =INDICATES AN ESTIMATED VALUE BELOW MDL
B =INDICATES COMPOUND FOUND IN THE ASSOCIATED BLANK AS WELL AS IN SAMPLE
E =ESTIMATED VALUE; EXCEEDS INSTRUMENT CALIBRATION RANGE

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: KILLAM

Lab Sample ID: E320266

Date Analyzed: 7/30/93 23:50

Lab File ID: >G7319

Matrix: WATER FOR VOA

Number TICs found: 15 CONCENTRATION UNITS: ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST CONC	Q
1.		Unknown	3.22	160.	/
2.	156605	Ethene, 1,2-dichloro-, (cis-) (E)- (9CI) ~~(3~~	9.88	800.	
3.	103651	Benzene, propyl- (8CI9CI)	23.75	9.	
4.	611143	Benzene, 1-ethyl-2-methyl- (9CI)	24.00	33.	
5.	108678	Benzene, 1,3,5-trimethyl- (9CI)	24.26	11.	
6.	611143	Benzene, 1-ethyl-2-methyl- (9CI)	24.79	32.	
7.	620144	Benzene, 1-ethyl-3-methyl- (9CI)	25.29	87.	
8.	10468641	Benzene, 1-isocyano-2-methyl- (9CI	26.98	17.	
9.	1074551	Benzene, 1-methyl-4-propyl- (9CI)	27.84	13.	
10.	535773	Benzene, 1-methyl-3-(1-methylethyl	28.19	27.	
11.	527844	Benzene, 1-methyl-2-(1-methylethyl	28.41	28.	
12.	767588	1H-Indene, 2,3-dihydro-1-methyl- (	28.66	24.	
13.	1758889	Benzene, 2-ethyl-1,4-dimethyl- (9C	29.25	18.	
14.	488233	Benzene, 1,2,3,4-tetramethyl- (8CI	29.54	19.	
15.	488233	Benzene, 1,2,3,4-tetramethyl- (8CI	29.68	25.	

QUALIFIERS(Q);
(1)-THIS COMPOUND (OR SIMILAR SPECTRA) FOUND IN LAB BLANK.
(2)-INTERNAL OR SURROGATE STANDARD ADDED BY LABORATORY.
(3)-THIS COMPOUND ALREADY IDENTIFIED AND REPORTED AS TARGET COMPOUND.
(4)-PROBABLE BACKGROUND DUE TO SOLVENT OR CO2.
(5)-OTHER:

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ANALYSIS REPORT FOR VOLATILE ORGANICS BY GC/MS

		DATA FILES	ANALYSIS DATE
CLIENT : KILLAM	Initial :	>G7305	07/30/93
LAB SAMPLE #: E320267	Dilution #1 :		
MATRIX : WATER	Dilution #2 :		
METHOD : EPA 624			

	COMPOUND	RESULT (ug/L)	MDL (ug/L)	Q
1)	ACROLEIN	ND	2.5	
2)	ACRYLONITRILE	ND	2.0	
3)	BENZENE	ND	0.84	
4)	BROMOFORM	ND	0.61	
5)	BROMODICHLOROMETHANE	ND	0.66	
6)	BROMOMETHANE	ND	1.0	
7)	CARBON TETRACHLORIDE	ND	0.75	
8)	CHLOROBENZENE	ND	1.4	
9)	CHLOROETHANE	ND	1.0	
10)	2-CHLOROETHYL VINYL ETHER	ND	0.39	
11)	CHLOROFORM	ND	0.68	
12)	CHLOROMETHANE	ND	1.1	
13)	cis-1,3-DICHLOROPROPENE	ND	0.93	
14)	DIBROMOCHLOROMETHANE	ND	0.63	
15)	1,2-DICHLOROBENZENE	ND	1.8	
16)	1,3-DICHLOROBENZENE	ND	2.0	
17)	1,4-DICHLOROBENZENE	ND	2.2	
18)	1,1-DICHLOROETHANE	ND	0.57	
19)	1,2-DICHLOROETHANE	ND	0.66	
20)	1,1-DICHLOROETHYLENE	ND	0.88	
21)	trans-1,2-DICHLOROETHYLENE	ND	0.94	
22)	trans-1,3-DICHLOROPROPENE	ND	0.70	
23)	1,2-DICHLOROPROPANE	ND	0.74	
24)	ETHYLBENZENE	ND	1.5	
25)	METHYLENE CHLORIDE	ND	0.84	
26)	1,1,2,2-TETRACHLOROETHANE	ND	0.56	
27)	TETRACHLOROETHYLENE	ND	1.5	
28)	TOLUENE	ND	1.2	
29)	1,1,1-TRICHLOROETHANE	ND	0.65	
30)	1,1,2-TRICHLOROETHANE	ND	0.86	
31)	TRICHLOROETHYLENE	ND	1.5	
32)	TRICHLOROFLUOROMETHANE	ND	0.90	
33)	VINYL CHLORIDE	ND	1.0	
34)	XYLENE (TOTAL)	ND	3.4	

ND = NOT DETECTED
MDL= METHOD DETECTION LIMIT

(1) - RESULTS REPORTED FROM DILUTION #1
(2) - RESULTS REPORTED FROM DILUTION #2

QUALIFIERS (Q)
J =INDICATES AN ESTIMATED VALUE BELOW MDL
B =INDICATES COMPOUND FOUND IN THE ASSOCIATED BLANK AS WELL AS IN SAMPLE
E =ESTIMATED VALUE; EXCEEDS INSTRUMENT CALIBRATION RANGE

CERTIFICATIONS: NJ (12129) • NY (10983) • PA (68-408) • MA (NJ141) • CT (PH-0585) • MD (167) • DE • VA (00004) • NC (346) • SC (94009) • TN (2968)

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: KILLAM

Lab Sample ID: E320267

Date Analyzed: 7/30/93 13:43

Lab File ID: >G7305

Matrix: WATER FOR VOA

Number TICs found: 2 CONCENTRATION UNITS: ug/L

CAS NUMBER	COMPOUND NAME	RT	EST CONC	Q
1.	Unknown	3.30	100.	1
2. 75070	Acetaldehyde (DOT)(8CI9CI)	4.28	14.	1
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				

QUALIFIERS(Q);
(1)-THIS COMPOUND (OR SIMILAR SPECTRA) FOUND IN LAB BLANK.
(2)-INTERNAL OR SURROGATE STANDARD ADDED BY LABORATORY.
(3)-THIS COMPOUND ALREADY IDENTIFIED AND REPORTED AS TARGET COMPOUND.
(4)-PROBABLE BACKGROUND DUE TO SOLVENT OR CO2.
(5)-OTHER:

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ANALYSIS REPORT FOR VOLATILE ORGANICS BY GC/MS

		DATA FILES	ANALYSIS DATE
CLIENT : KILLAM	Initial :	>G7306	07/30/93
LAB SAMPLE #: E320268	Dilution #1 :		
MATRIX : WATER	Dilution #2 :		
METHOD : EPA 624			

COMPOUND	RESULT (ug/L)	MDL (ug/L)	Q
1) ACROLEIN	ND	2.5	
2) ACRYLONITRILE	ND	2.0	
3) BENZENE	ND	0.84	
4) BROMOFORM	ND	0.61	
5) BROMODICHLOROMETHANE	ND	0.66	
6) BROMOMETHANE	ND	1.0	
7) CARBON TETRACHLORIDE	ND	0.75	
8) CHLOROBENZENE	ND	1.4	
9) CHLOROETHANE	ND	1.0	
10) 2-CHLOROETHYL VINYL ETHER	ND	0.39	
11) CHLOROFORM	ND	0.68	
12) CHLOROMETHANE	ND	1.1	
13) cis-1,3-DICHLOROPROPENE	ND	0.93	
14) DIBROMOCHLOROMETHANE	ND	0.63	
15) 1,2-DICHLOROBENZENE	ND	1.8	
16) 1,3-DICHLOROBENZENE	ND	2.0	
17) 1,4-DICHLOROBENZENE	ND	2.2	
18) 1,1-DICHLOROETHANE	ND	0.57	
19) 1,2-DICHLOROETHANE	ND	0.66	
20) 1,1-DICHLOROETHYLENE	ND	0.88	
21) trans-1,2-DICHLOROETHYLENE	ND	0.94	
22) trans-1,3-DICHLOROPROPENE	ND	0.70	
23) 1,2-DICHLOROPROPANE	ND	0.74	
24) ETHYLBENZENE	ND	1.5	
25) METHYLENE CHLORIDE	ND	0.84	
26) 1,1,2,2-TETRACHLOROETHANE	ND	0.56	
27) TETRACHLOROETHYLENE	ND	1.5	
28) TOLUENE	ND	1.2	
29) 1,1,1-TRICHLOROETHANE	ND	0.65	
30) 1,1,2-TRICHLOROETHANE	ND	0.86	
31) TRICHLOROETHYLENE	ND	1.5	
32) TRICHLOROFLUOROMETHANE	ND	0.90	
33) VINYL CHLORIDE	ND	1.0	
34) XYLENE (TOTAL)	ND	3.4	

ND = NOT DETECTED
MDL= METHOD DETECTION LIMIT

(1) - RESULTS REPORTED FROM DILUTION #1
(2) - RESULTS REPORTED FROM DILUTION #2

QUALIFIERS (Q)
J =INDICATES AN ESTIMATED VALUE BELOW MDL
B =INDICATES COMPOUND FOUND IN THE ASSOCIATED BLANK AS WELL AS IN SAMPLE
E =ESTIMATED VALUE; EXCEEDS INSTRUMENT CALIBRATION RANGE

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: KILLAM

Lab Sample ID: E320268

Date Analyzed: 7/30/93 14:25

Lab File ID: >G7306

Matrix: WATER FOR VOA

Number TICs found: 2 CONCENTRATION UNITS: ug/L

CAS NUMBER	COMPOUND NAME	RT	EST CONC	Q
1.	Unknown	3.24	97.	/
2. 75070	Acetaldehyde (DOT)(8CI9CI)	4.20	15.	/
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				

QUALIFIERS(Q);
(1)-THIS COMPOUND (OR SIMILAR SPECTRA) FOUND IN LAB BLANK.
(2)-INTERNAL OR SURROGATE STANDARD ADDED BY LABORATORY.
(3)-THIS COMPOUND ALREADY IDENTIFIED AND REPORTED AS TARGET COMPOUND.
(4)-PROBABLE BACKGROUND DUE TO SOLVENT OR CO2.
(5)-OTHER:

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Killam
Associates ▫ Consulting Engineers
27 Ble[illegible] Street
Millburn, NJ 07041-1008
Tel.: 201-379-3400
Fax: 201-912-2405

Chain of Custody

934307

Client Name: HEXCEL CORP

Work ID:

Project # and Type: 225300-0013/ECRA

Project Manager: GARY K. WALKER

Killam - Hexcel

Collected by (print): DANIEL A. FLATIN

Signature: [signature]

Preserved by:

Before Sampling _____ After Sampling _____

Lab Work Order:

Lab No.	Sample Number	Sample Location	Collected Date	Collected Time	Analyses: VOHLS											Notes
E370555	93-0727-01	MW-1	7-27-93	1141	X											
E370556	93-0727-02	MW-2		1402	X											
E370557	93-0727-03	MW-3		1333	X											
E370558	93-0727-04	MW-4		1639	X											
E370559	93-0727-05	MW-5		1522	X											
E370560	93-0727-17	MW-17		1209	X											
E370561	93-0727-18	MW-18		1319	X											
E370562	93-0727-20	MW-20		1658	X											
E370563	93-0727-21	MW-21		1622	X											
E370564	93-0727-22	MW-22		1246	X											
E370565	93-0727-31	MW-31		1306	X											
E370566	93-0727-CW1	CW-1		1234	X											
E370567	93-0727-FB	Hexcel		1245	X											Field Blank
E370568	93-0726-TB	Accutest			X											Trip Blank

4011

Report Format: UST ECRA TIER IIb NJPDES DMR
JM Other _____

Preservation Checked in Lab by:

Turnaround Time: STANDARD

Additional Comments REDUCE

ALL SAMPLES RECEIVED PRESERVED AS APPLICABLE

SAMPLES RECEIVED ON ICE W/ ACCUTEST

REFER TO HEXCEL CORP. FLD BK No. 02, pp. 100-117 for Sampling DATA

Samples Relinquished By:	Samples Received By:	Date/Time
[signature]	[signature]	7/28/93 12:25
[signature]	[signature]	7/28/93 16:20

0792

883750118

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ANALYSIS REPORT FOR VOLATILE ORGANICS BY GC/MS

			DATA FILES	ANALYSIS DATE
CLIENT	: 07/30/93	Initial	: >G7304	07/30/93
LAB SAMPLE #:	MB-VG735	Dilution #1	:	
MATRIX	: WATER	Dilution #2	:	
METHOD	: EPA 624			

	COMPOUND	RESULT (ug/L)	MDL (ug/L)	Q
1)	ACROLEIN	ND	2.5	
2)	ACRYLONITRILE	ND	2.0	
3)	BENZENE	ND	0.84	
4)	BROMOFORM	ND	0.61	
5)	BROMODICHLOROMETHANE	ND	0.66	
6)	BROMOMETHANE	ND	1.0	
7)	CARBON TETRACHLORIDE	ND	0.75	
8)	CHLOROBENZENE	ND	1.4	
9)	CHLOROETHANE	ND	1.0	
10)	2-CHLOROETHYL VINYL ETHER	ND	0.39	
11)	CHLOROFORM	ND	0.68	
12)	CHLOROMETHANE	ND	1.1	
13)	cis-1,3-DICHLOROPROPENE	ND	0.93	
14)	DIBROMOCHLOROMETHANE	ND	0.63	
15)	1,2-DICHLOROBENZENE	ND	1.8	
16)	1,3-DICHLOROBENZENE	ND	2.0	
17)	1,4-DICHLOROBENZENE	ND	2.2	
18)	1,1-DICHLOROETHANE	ND	0.57	
19)	1,2-DICHLOROETHANE	ND	0.66	
20)	1,1-DICHLOROETHYLENE	ND	0.88	
21)	trans-1,2-DICHLOROETHYLENE	ND	0.94	
22)	trans-1,3-DICHLOROPROPENE	ND	0.70	
23)	1,2-DICHLOROPROPANE	ND	0.74	
24)	ETHYLBENZENE	ND	1.5	
25)	METHYLENE CHLORIDE	ND	0.84	
26)	1,1,2,2-TETRACHLOROETHANE	ND	0.56	
27)	TETRACHLOROETHYLENE	ND	1.5	
28)	TOLUENE	ND	1.2	
29)	1,1,1-TRICHLOROETHANE	ND	0.65	
30)	1,1,2-TRICHLOROETHANE	ND	0.86	
31)	TRICHLOROETHYLENE	ND	1.5	
32)	TRICHLOROFLUOROMETHANE	ND	0.90	
33)	VINYL CHLORIDE	ND	1.0	
34)	XYLENE (total)	ND	3.4	

ND = NOT DETECTED
MDL= METHOD DETECTION LIMIT

(1) - RESULTS REPORTED FROM DILUTION #1
(2) - RESULTS REPORTED FROM DILUTION #2

QUALIFIERS (Q)
J =INDICATES AN ESTIMATED VALUE BELOW MDL
B =INDICATES COMPOUND FOUND IN THE ASSOCIATED BLANK AS WELL AS IN SAMPLE
E =ESTIMATED VALUE; EXCEEDS INSTRUMENT CALIBRATION RANGE

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: 07/30/93

Lab Sample ID: MB-VG735

Date Analyzed: 7/30/93 12:27

Lab File ID: >G7304

Matrix: WATER FOR VOA

Number TICs found: 2 CONCENTRATION UNITS: ug/L

CAS NUMBER	COMPOUND NAME	RT	EST CONC	Q
1.	Unknown	3.21	76.	4
2.	Unknown	4.17	14.	4
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				

QUALIFIERS(Q);
(1)-THIS COMPOUND (OR SIMILAR SPECTRA) FOUND IN LAB BLANK.
(2)-INTERNAL OR SURROGATE STANDARD ADDED BY LABORATORY.
(3)-THIS COMPOUND ALREADY IDENTIFIED AND REPORTED AS TARGET COMPOUND.
(4)-PROBABLE BACKGROUND DUE TO SOLVENT OR CO2.
(5)-OTHER:

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ANALYSIS REPORT FOR VOLATILE ORGANICS BY GC/MS

			DATA FILES	ANALYSIS DATE
CLIENT	: 08/02/93	Initial	: >G7332	08/02/93
LAB SAMPLE #:	MB-VG736	Dilution #1	:	
MATRIX	: WATER	Dilution #2	:	
METHOD	: EPA 624			

	COMPOUND	RESULT (ug/L)	MDL (ug/L)	Q
1)	ACROLEIN	ND	2.5	
2)	ACRYLONITRILE	ND	2.0	
3)	BENZENE	ND	0.84	
4)	BROMOFORM	ND	0.61	
5)	BROMODICHLOROMETHANE	ND	0.66	
6)	BROMOMETHANE	ND	1.0	
7)	CARBON TETRACHLORIDE	ND	0.75	
8)	CHLOROBENZENE	ND	1.4	
9)	CHLOROETHANE	ND	1.0	
10)	2-CHLOROETHYL VINYL ETHER	ND	0.39	
11)	CHLOROFORM	ND	0.68	
12)	CHLOROMETHANE	ND	1.1	
13)	cis-1,3-DICHLOROPROPENE	ND	0.93	
14)	DIBROMOCHLOROMETHANE	ND	0.63	
15)	1,2-DICHLOROBENZENE	ND	1.8	
16)	1,3-DICHLOROBENZENE	ND	2.0	
17)	1,4-DICHLOROBENZENE	ND	2.2	
18)	1,1-DICHLOROETHANE	ND	0.57	
19)	1,2-DICHLOROETHANE	ND	0.66	
20)	1,1-DICHLOROETHYLENE	ND	0.88	
21)	trans-1,2-DICHLOROETHYLENE	ND	0.94	
22)	trans-1,3-DICHLOROPROPENE	ND	0.70	
23)	1,2-DICHLOROPROPANE	ND	0.74	
24)	ETHYLBENZENE	ND	1.5	
25)	METHYLENE CHLORIDE	ND	0.84	
26)	1,1,2,2-TETRACHLOROETHANE	ND	0.56	
27)	TETRACHLOROETHYLENE	ND	1.5	
28)	TOLUENE	ND	1.2	
29)	1,1,1-TRICHLOROETHANE	ND	0.65	
30)	1,1,2-TRICHLOROETHANE	ND	0.86	
31)	TRICHLOROETHYLENE	ND	1.5	
32)	TRICHLOROFLUOROMETHANE	ND	0.90	
33)	VINYL CHLORIDE	ND	1.0	
34)	XYLENES (TOTAL)	ND	3.4	

ND = NOT DETECTED
MDL= METHOD DETECTION LIMIT

(1) - RESULTS REPORTED FROM DILUTION #1
(2) - RESULTS REPORTED FROM DILUTION #2

QUALIFIERS (Q)
J =INDICATES AN ESTIMATED VALUE BELOW MDL
B =INDICATES COMPOUND FOUND IN THE ASSOCIATED BLANK AS WELL AS IN SAMPLE
E =ESTIMATED VALUE; EXCEEDS INSTRUMENT CALIBRATION RANGE

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: 08/02/93

Lab Sample ID: MB-VG736

Date Analyzed: 8/02/93 13:01

Lab File ID: >G7332

Matrix: WATER FOR VOA

Number TICs found: 2 CONCENTRATION UNITS: ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST CONC	Q
1.		Unknown	3.18	100.	4
2.	75070	Acetaldehyde (DOT)(8CI9CI)	4.12	16.	4
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					

QUALIFIERS(Q);
(1)-THIS COMPOUND (OR SIMILAR SPECTRA) FOUND IN LAB BLANK.
(2)-INTERNAL OR SURROGATE STANDARD ADDED BY LABORATORY.
(3)-THIS COMPOUND ALREADY IDENTIFIED AND REPORTED AS TARGET COMPOUND.
(4)-PROBABLE BACKGROUND DUE TO SOLVENT OR CO2.
(5)-OTHER:

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ANALYSIS REPORT FOR VOLATILE ORGANICS BY GC/MS

			DATA FILES	ANALYSIS DATE
CLIENT	: 07/29/93	Initial	: >J6874	07/29/93
LAB SAMPLE #:	MB-VJ659	Dilution #1	:	
MATRIX	: WATER	Dilution #2	:	
METHOD	: EPA 624			

	COMPOUND	RESULT (ug/L)	MDL (ug/L)	Q
1)	ACROLEIN	ND	2.5	
2)	ACRYLONITRILE	ND	2.0	
3)	BENZENE	ND	0.84	
4)	BROMOFORM	ND	0.61	
5)	BROMODICHLOROMETHANE	ND	0.66	
6)	BROMOMETHANE	ND	1.0	
7)	CARBON TETRACHLORIDE	ND	0.75	
8)	CHLOROBENZENE	ND	1.4	
9)	CHLOROETHANE	ND	1.0	
10)	2-CHLOROETHYL VINYL ETHER	ND	0.39	
11)	CHLOROFORM	ND	0.68	
12)	CHLOROMETHANE	ND	1.1	
13)	cis-1,3-DICHLOROPROPENE	ND	0.93	
14)	DIBROMOCHLOROMETHANE	ND	0.63	
15)	1,2-DICHLOROBENZENE	ND	1.8	
16)	1,3-DICHLOROBENZENE	ND	2.0	
17)	1,4-DICHLOROBENZENE	ND	2.2	
18)	1,1-DICHLOROETHANE	ND	0.57	
19)	1,2-DICHLOROETHANE	ND	0.66	
20)	1,1-DICHLOROETHYLENE	ND	0.88	
21)	trans-1,2-DICHLOROETHYLENE	ND	0.94	
22)	trans-1,3-DICHLOROPROPENE	ND	0.70	
23)	1,2-DICHLOROPROPANE	ND	0.74	
24)	ETHYLBENZENE	ND	1.5	
25)	METHYLENE CHLORIDE	ND	0.84	
26)	1,1,2,2-TETRACHLOROETHANE	ND	0.56	
27)	TETRACHLOROETHYLENE	ND	1.5	
28)	TOLUENE	ND	1.2	
29)	1,1,1-TRICHLOROETHANE	ND	0.65	
30)	1,1,2-TRICHLOROETHANE	ND	0.86	
31)	TRICHLOROETHYLENE	ND	1.5	
32)	TRICHLOROFLUOROMETHANE	ND	0.90	
33)	VINYL CHLORIDE	ND	1.0	
34)	XYLENE (total)	ND	3.4	

ND = NOT DETECTED
MDL= METHOD DETECTION LIMIT

(1) - RESULTS REPORTED FROM DILUTION #1
(2) - RESULTS REPORTED FROM DILUTION #2

QUALIFIERS (Q)
J =INDICATES AN ESTIMATED VALUE BELOW MDL
B =INDICATES COMPOUND FOUND IN THE ASSOCIATED BLANK AS WELL AS IN SAMPLE
E =ESTIMATED VALUE; EXCEEDS INSTRUMENT CALIBRATION RANGE

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: 07/29/93

Lab Sample ID: MB-VJ659,VJ65

Date Analyzed: 7/29/93 13:40

Lab File ID: >J6874

Matrix: WATER FOR VOA

Number TICs found: 2 CONCENTRATION UNITS: ug/L

CAS NUMBER	COMPOUND NAME	RT	EST CONC	Q
1.	Unknown	3.95	40.	✓
2.	Unknown	5.25	14.	✓
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				

QUALIFIERS(Q);
(1)-THIS COMPOUND (OR SIMILAR SPECTRA) FOUND IN LAB BLANK.
(2)-INTERNAL OR SURROGATE STANDARD ADDED BY LABORATORY.
(3)-THIS COMPOUND ALREADY IDENTIFIED AND REPORTED AS TARGET COMPOUND.
(4)-PROBABLE BACKGROUND DUE TO SOLVENT OR CO2.
(5)-OTHER:

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ANALYSIS REPORT FOR VOLATILE ORGANICS BY GC/MS

			DATA FILES	ANALYSIS DATE
CLIENT	: 07/30/93	Initial	: >J6903	07/30/93
LAB SAMPLE #:	MB-VJ660	Dilution #1	:	
MATRIX	: WATER	Dilution #2	:	
METHOD	: EPA 624			

	COMPOUND	RESULT (ug/L)	MDL (ug/L)	Q
1)	ACROLEIN	ND	2.5	
2)	ACRYLONITRILE	ND	2.0	
3)	BENZENE	ND	0.84	
4)	BROMOFORM	ND	0.61	
5)	BROMODICHLOROMETHANE	ND	0.66	
6)	BROMOMETHANE	ND	1.0	
7)	CARBON TETRACHLORIDE	ND	0.75	
8)	CHLOROBENZENE	ND	1.4	
9)	CHLOROETHANE	ND	1.0	
10)	2-CHLOROETHYL VINYL ETHER	ND	0.39	
11)	CHLOROFORM	ND	0.68	
12)	CHLOROMETHANE	ND	1.1	
13)	cis-1,3-DICHLOROPROPENE	ND	0.93	
14)	DIBROMOCHLOROMETHANE	ND	0.63	
15)	1,2-DICHLOROBENZENE	ND	1.8	
16)	1,3-DICHLOROBENZENE	ND	2.0	
17)	1,4-DICHLOROBENZENE	ND	2.2	
18)	1,1-DICHLOROETHANE	ND	0.57	
19)	1,2-DICHLOROETHANE	ND	0.66	
20)	1,1-DICHLOROETHYLENE	ND	0.88	
21)	trans-1,2-DICHLOROETHYLENE	ND	0.94	
22)	trans-1,3-DICHLOROPROPENE	ND	0.70	
23)	1,2-DICHLOROPROPANE	ND	0.74	
24)	ETHYLBENZENE	ND	1.5	
25)	METHYLENE CHLORIDE	ND	0.84	
26)	1,1,2,2-TETRACHLOROETHANE	ND	0.56	
27)	TETRACHLOROETHYLENE	ND	1.5	
28)	TOLUENE	ND	1.2	
29)	1,1,1-TRICHLOROETHANE	ND	0.65	
30)	1,1,2-TRICHLOROETHANE	ND	0.86	
31)	TRICHLOROETHYLENE	ND	1.5	
32)	TRICHLOROFLUOROMETHANE	ND	0.90	
33)	VINYL CHLORIDE	ND	1.0	
34)	XYLENE (total)	ND	3.4	

ND = NOT DETECTED
MDL= METHOD DETECTION LIMIT

(1) - RESULTS REPORTED FROM DILUTION #1
(2) - RESULTS REPORTED FROM DILUTION #2

QUALIFIERS (Q)
J =INDICATES AN ESTIMATED VALUE BELOW MDL
B =INDICATES COMPOUND FOUND IN THE ASSOCIATED BLANK AS WELL AS IN SAMPLE
E =ESTIMATED VALUE; EXCEEDS INSTRUMENT CALIBRATION RANGE

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: 07/30/93

Lab Sample ID: MB-VJ660,VJ66

Date Analyzed: 7/30/93 13:09

Lab File ID: >J6903

Matrix: WATER FOR VOA

Number TICs found: 2 CONCENTRATION UNITS: ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST CONC	Q
1.		Unknown	3.93	40.	4
2.	75070	Acetaldehyde (DOT)(8C19CI)	5.25	16.	4
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					

QUALIFIERS(Q);
(1)-THIS COMPOUND (OR SIMILAR SPECTRA) FOUND IN LAB BLANK.
(2)-INTERNAL OR SURROGATE STANDARD ADDED BY LABORATORY.
(3)-THIS COMPOUND ALREADY IDENTIFIED AND REPORTED AS TARGET COMPOUND.
(4)-PROBABLE BACKGROUND DUE TO SOLVENT OR CO2.
(5)-OTHER:

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ANALYSIS REPORT FOR VOLATILE ORGANICS BY GC/MS

			DATA FILES	ANALYSIS DATE
CLIENT	: 08/02/93	Initial	: >J6938	08/02/93
LAB SAMPLE #	: MB-VJ661	Dilution #1	:	
MATRIX	: WATER	Dilution #2	:	
METHOD	: EPA 624			

	COMPOUND	RESULT (ug/L)	MDL (ug/L)	Q
1)	ACROLEIN	ND	2.5	
2)	ACRYLONITRILE	ND	2.0	
3)	BENZENE	ND	0.84	
4)	BROMOFORM	ND	0.61	
5)	BROMODICHLOROMETHANE	ND	0.66	
6)	BROMOMETHANE	ND	1.0	
7)	CARBON TETRACHLORIDE	ND	0.75	
8)	CHLOROBENZENE	ND	1.4	
9)	CHLOROETHANE	ND	1.0	
10)	2-CHLOROETHYL VINYL ETHER	ND	0.39	
11)	CHLOROFORM	ND	0.68	
12)	CHLOROMETHANE	ND	1.1	
13)	cis-1,3-DICHLOROPROPENE	ND	0.93	
14)	DIBROMOCHLOROMETHANE	ND	0.63	
15)	1,2-DICHLOROBENZENE	ND	1.8	
16)	1,3-DICHLOROBENZENE	ND	2.0	
17)	1,4-DICHLOROBENZENE	ND	2.2	
18)	1,1-DICHLOROETHANE	ND	0.57	
19)	1,2-DICHLOROETHANE	ND	0.66	
20)	1,1-DICHLOROETHYLENE	ND	0.88	
21)	trans-1,2-DICHLOROETHYLENE	ND	0.94	
22)	trans-1,3-DICHLOROPROPENE	ND	0.70	
23)	1,2-DICHLOROPROPANE	ND	0.74	
24)	ETHYLBENZENE	ND	1.5	
25)	METHYLENE CHLORIDE	ND	0.84	
26)	1,1,2,2-TETRACHLOROETHANE	ND	0.56	
27)	TETRACHLOROETHYLENE	ND	1.5	
28)	TOLUENE	ND	1.2	
29)	1,1,1-TRICHLOROETHANE	ND	0.65	
30)	1,1,2-TRICHLOROETHANE	ND	0.86	
31)	TRICHLOROETHYLENE	ND	1.5	
32)	TRICHLOROFLUOROMETHANE	ND	0.90	
33)	VINYL CHLORIDE	ND	1.0	
34)	XYLENE (total)	ND	3.4	

ND = NOT DETECTED
MDL= METHOD DETECTION LIMIT

(1) - RESULTS REPORTED FROM DILUTION #1
(2) - RESULTS REPORTED FROM DILUTION #2

QUALIFIERS (Q)
J =INDICATES AN ESTIMATED VALUE BELOW MDL
B =INDICATES COMPOUND FOUND IN THE ASSOCIATED BLANK AS WELL AS IN SAMPLE
E =ESTIMATED VALUE; EXCEEDS INSTRUMENT CALIBRATION RANGE

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: 08/02/93

Lab Sample ID: MB-VJ661,VJ66

Date Analyzed: 8/02/93 11:59

Lab File ID: >J6938

Matrix: WATER FOR VOA

Number TICs found: 2 CONCENTRATION UNITS: ug/L

CAS NUMBER	COMPOUND NAME	RT	EST CONC	Q
1.	Unknown	3.90	40.	4
2.	Unknown	5.21	13.	4
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				

QUALIFIERS(Q);
(1)-THIS COMPOUND (OR SIMILAR SPECTRA) FOUND IN LAB BLANK.
(2)-INTERNAL OR SURROGATE STANDARD ADDED BY LABORATORY.
(3)-THIS COMPOUND ALREADY IDENTIFIED AND REPORTED AS TARGET COMPOUND.
(4)-PROBABLE BACKGROUND DUE TO SOLVENT OR CO2.
(5)-OTHER:

FORM I VOA-TIC

Killam

APPENDIX H

Analytical Laboratory Results for
Groundwater Sampling
July 27-28, 1993

Part II

Hexcel Corporation
Monthly Project Status Report
August 1993

883750129

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08/12/93

TECHNICAL REPORT FOR KILLAM ASSOCIATES

SAMPLES TAKEN AT: HEXCEL, LODI, NJ
CLIENT PROJECT ID: 225300-0013
ACCUTEST JOB NUMBER: 934337
SAMPLES RECEIVED AT ACCUTEST ON: 07/29/93
NUMBER OF SAMPLES IN THIS REPORT: 19
TOTAL NUMBER OF PAGES IN REPORT: 419

VINCENT J. PUGLIESE
PRESIDENT

NOTE: THIS REPORT SHOULD ONLY BE REPRODUCED IN FULL

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KILLAM ASSOCIATES
27 BLEEKER STREET
MILLBURN, NJ 07041

DATE: 08/12/93
JOB No: 934337
PROJECT No: 225300-0013
SAMPLE RECEIVED: 07/29/93

ATTN: DAVID KNOWLES

SAMPLE SUMMARY

SAMPLE No	COLLECTED DATE	TIME	BY	POINT OF COLLECTION
E320320	07/28/93	12:05	DAF	GROUND WATER - 93-0728-06, MW-6 HEXCEL, LODI, NJ
E320321	07/28/93	11:56	DAF	GROUND WATER - 93-0728-07, MW-7 HEXCEL, LODI, NJ
E320322	07/28/93	15:13	DAF	GROUND WATER - 93-0728-08, MW-8 HEXCEL, LODI, NJ
E320323	07/28/93	14:56	DAF	GROUND WATER - 93-0728-09, MW-9 HEXCEL, LODI, NJ
E320324	07/28/93	11:30	DAF	GROUND WATER - 93-0728-10, MW-10 HEXCEL, LODI, NJ
E320325	07/28/93	11:37	DAF	GROUND WATER - 93-0728-11, MW-11 HEXCEL, LODI, NJ

VINCENT J. PUGLIESE
PRESIDENT

CERTIFICATIONS: NJ (12129) • NY (10983) • PA (68-408) • MA (NJ141) • CT (PH-0585) • MD (167) • DE • VA (00004) • NC (346) • SC (94009) • TN (2968)

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KILLAM ASSOCIATES
27 BLEEKER STREET
MILLBURN, NJ 07041

DATE: 08/12/93
JOB No: 934337
PROJECT No: 225300-0013
SAMPLE RECEIVED: 07/29/93

ATTN: DAVID KNOWLES

SAMPLE SUMMARY

SAMPLE No	COLLECTED DATE	TIME	BY	POINT OF COLLECTION
E320326	07/28/93	12:27	DAF	GROUND WATER - 93-0728-12, MW-12 HEXCEL, LODI, NJ
E320327	07/28/93	12:22	DAF	GROUND WATER - 93-0728-13, MW-13 HEXCEL, LODI, NJ
E320328	07/28/93	14:22	DAF	GROUND WATER - 93-0728-16, MW-16 HEXCEL, LODI, NJ
E320329	07/28/93	15:18	DAF	GROUND WATER - 93-0728-24, MW-24 HEXCEL, LODI, NJ
E320330	07/28/93	15:05	DAF	GROUND WATER - 93-0728-25, MW-25 HEXCEL, LODI, NJ
E320331	07/28/93	12:13	DAF	GROUND WATER - 93-0728-28, MW-28 HEXCEL, LODI, NJ

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KILLAM ASSOCIATES
27 BLEEKER STREET
MILLBURN, NJ 07041

DATE: 08/12/93
JOB No: 934337
PROJECT No: 225300-0013
SAMPLE RECEIVED: 07/29/93

ATTN: DAVID KNOWLES

Dup #1 - MW-12

Dup #2 - MW-8

SAMPLE No	C DATE			' OF COLLECTION
E320332	07/28/9			ɾ - 93-0728-CW10, CW-10 [, NJ
E320333	07/28/!			R - 93-0728-CW14, CW-14 I, NJ
E320334	07/28/93	15:26	DAF	GROUND WATER - 93-0728-RW62, RW-6-2 HEXCEL, LODI, NJ
E320335	07/28/93		DAF	GROUND WATER - 93-0728-DUP1, DUPLICATE #1 HEXCEL, LODI, NJ
E320336	07/28/93		DAF	GROUND WATER - 93-0728-DUP2, DUPLICATE #2 HEXCEL, LODI, NJ
E320337	07/28/93	11:20	DAF	WATER - 93-0728-FB HEXCEL, FIELD BLANK HEXCEL, LODI, NJ

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KILLAM ASSOCIATES
27 BLEEKER STREET
MILLBURN, NJ 07041

DATE: 08/12/93
JOB No: 934337
PROJECT No: 225300-0013
SAMPLE RECEIVED: 07/29/93

ATTN: DAVID KNOWLES

SAMPLE SUMMARY

SAMPLE No	COLLECTED DATE	TIME	BY	POINT OF COLLECTION
E320338	07/26/93	11:45	DAF	WATER - 93-0728-TB, ACCUTEST, TRIP BLANK HEXCEL, LODI, NJ

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ANALYSIS REPORT FOR VOLATILE ORGANICS BY GC/MS

			DATA FILES	ANALYSIS DATE
CLIENT	: KILLAM	Initial	: >G7321	07/31/93
LAB SAMPLE #:	E320320	Dilution #1	: >G7363	08/03/93
MATRIX	: WATER	Dilution #2	:	
METHOD	: EPA 624			

	COMPOUND	RESULT (ug/L)	MDL (ug/L)	Q
1)	ACROLEIN	ND	13	
2)	ACRYLONITRILE	ND	10	
3)	BENZENE	ND	4.2	
4)	BROMOFORM	ND	3.1	
5)	BROMODICHLOROMETHANE	ND	3.3	
6)	BROMOMETHANE	ND	5.0	
7)	CARBON TETRACHLORIDE	ND	3.8	
8)	CHLOROBENZENE	6900(1)	28	
9)	CHLOROETHANE	19	5.0	
10)	2-CHLOROETHYL VINYL ETHER	1700	2.0	
11)	CHLOROFORM	24	3.4	
12)	CHLOROMETHANE	ND	5.5	
13)	cis-1,3-DICHLOROPROPENE	ND	4.6	
14)	DIBROMOCHLOROMETHANE	ND	3.2	
15)	1,2-DICHLOROBENZENE	59	9.0	
16)	1,3-DICHLOROBENZENE	ND	10	
17)	1,4-DICHLOROBENZENE	ND	11	
18)	1,1-DICHLOROETHANE	15	2.9	
19)	1,2-DICHLOROETHANE	1900	3.3	
20)	1,1-DICHLOROETHYLENE	ND	4.4	
21)	trans-1,2-DICHLOROETHYLENE	ND	4.7	
22)	trans-1,3-DICHLOROPROPENE	ND	3.5	
23)	1,2-DICHLOROPROPANE	ND	3.7	
24)	ETHYLBENZENE	30	7.5	
25)	METHYLENE CHLORIDE	900	4.2	
26)	1,1,2,2-TETRACHLOROETHANE	ND	2.8	
27)	TETRACHLOROETHYLENE	600	7.5	
28)	TOLUENE	250	6.0	
29)	1,1,1-TRICHLOROETHANE	130	3.3	
30)	1,1,2-TRICHLOROETHANE	ND	4.3	
31)	TRICHLOROETHYLENE	280	7.5	
32)	TRICHLOROFLUOROMETHANE	ND	4.5	
33)	VINYL CHLORIDE	30	5.0	
34)	XYLENE (TOTAL)	45	17	

ND = NOT DETECTED
MDL= METHOD DETECTION LIMIT

(1) - RESULTS REPORTED FROM DILUTION #1
(2) - RESULTS REPORTED FROM DILUTION #2

QUALIFIERS (Q)
J =INDICATES AN ESTIMATED VALUE BELOW MDL
B =INDICATES COMPOUND FOUND IN THE ASSOCIATED BLANK AS WELL AS IN SAMPLE
E =ESTIMATED VALUE; EXCEEDS INSTRUMENT CALIBRATION RANGE

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: KILLAM

Lab Sample ID: E320320

Date Analyzed: 7/31/93 1:12

Lab File ID: >G7321

Matrix: WATER FOR VOA

Number TICs found: 5 CONCENTRATION UNITS: ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST CONC	Q
1.		Unknown	3.25	1100.	1
2.	75070	Acetaldehyde (DOT)(8CI9CI)	4.31	17.	1
3.	108203	Diisopropyl ether (DOT)	8.92	120.	
4.	156592	Ethene, 1,2-dichloro-, (cis) (Z)-	9.90	73.	
5.	622242	Benzene, (2-chloroethyl)- (8CI9CI)	29.97	16.	
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					

QUALIFIERS(Q);
(1)-THIS COMPOUND (OR SIMILAR SPECTRA) FOUND IN LAB BLANK.
(2)-INTERNAL OR SURROGATE STANDARD ADDED BY LABORATORY.
(3)-THIS COMPOUND ALREADY IDENTIFIED AND REPORTED AS TARGET COMPOUND.
(4)-PROBABLE BACKGROUND DUE TO SOLVENT OR CO2.
(5)-OTHER:

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883750136

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ANALYSIS REPORT FOR VOLATILE ORGANICS BY GC/MS

			DATA FILES	ANALYSIS DATE
CLIENT	: KILLAM	Initial	: >G7334	08/02/93
LAB SAMPLE #	: E320321	Dilution #1	:	
MATRIX	: WATER	Dilution #2	:	
METHOD	: EPA 624			

	COMPOUND	RESULT (ug/L)	MDL (ug/L)	Q
1)	ACROLEIN	ND	2.5	
2)	ACRYLONITRILE	ND	2.0	
3)	BENZENE	ND	0.84	
4)	BROMOFORM	ND	0.61	
5)	BROMODICHLOROMETHANE	ND	0.66	
6)	BROMOMETHANE	ND	1.0	
7)	CARBON TETRACHLORIDE	ND	0.75	
8)	CHLOROBENZENE	53	1.4	
9)	CHLOROETHANE	ND	1.0	
10)	2-CHLOROETHYL VINYL ETHER	ND	0.39	
11)	CHLOROFORM	ND	0.68	
12)	CHLOROMETHANE	ND	1.1	
13)	cis-1,3-DICHLOROPROPENE	ND	0.93	
14)	DIBROMOCHLOROMETHANE	ND	0.63	
15)	1,2-DICHLOROBENZENE	9.4	1.8	
16)	1,3-DICHLOROBENZENE	ND	2.0	
17)	1,4-DICHLOROBENZENE	ND	2.2	
18)	1,1-DICHLOROETHANE	ND	0.57	
19)	1,2-DICHLOROETHANE	22	0.66	
20)	1,1-DICHLOROETHYLENE	ND	0.88	
21)	trans-1,2-DICHLOROETHYLENE	ND	0.94	
22)	trans-1,3-DICHLOROPROPENE	ND	0.70	
23)	1,2-DICHLOROPROPANE	ND	0.74	
24)	ETHYLBENZENE	ND	1.5	
25)	METHYLENE CHLORIDE	5.6	0.84	
26)	1,1,2,2-TETRACHLOROETHANE	ND	0.56	
27)	TETRACHLOROETHYLENE	19	1.5	
28)	TOLUENE	2.9	1.2	
29)	1,1,1-TRICHLOROETHANE	1.6	0.65	
30)	1,1,2-TRICHLOROETHANE	ND	0.86	
31)	TRICHLOROETHYLENE	7.7	1.5	
32)	TRICHLOROFLUOROMETHANE	ND	0.90	
33)	VINYL CHLORIDE	ND	1.0	
34)	XYLENE (TOTAL)	ND	3.4	

ND = NOT DETECTED
MDL= METHOD DETECTION LIMIT

(1) - RESULTS REPORTED FROM DILUTION #1
(2) - RESULTS REPORTED FROM DILUTION #2

QUALIFIERS (Q)
J =INDICATES AN ESTIMATED VALUE BELOW MDL
B =INDICATES COMPOUND FOUND IN THE ASSOCIATED BLANK AS WELL AS IN SAMPLE
E =ESTIMATED VALUE; EXCEEDS INSTRUMENT CALIBRATION RANGE

CERTIFICATIONS: NJ (12129) • NY (10983) • PA (68-408) • MA (NJ141) • CT (PH-0585) • MD (167) • DE • VA (00004) • NC (346) • SC (94009) • TN (2968)

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: KILLAM

Lab Sample ID: E320321

Date Analyzed: 8/02/93 14:33

Lab File ID: >G7334

Matrix: WATER FOR VOA

Number TICs found: 3 CONCENTRATION UNITS: ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST CONC	Q
1.		Unknown	3.18	260.	1
2.	156592	Ethene, 1,2-dichloro-, (cis) (Z)- (9CI)	9.70	7.	
3.	622242	Benzene, (2-chloroethyl)- (8CI9CI)	29.77	52.	
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					

QUALIFIERS(Q);
(1)-THIS COMPOUND (OR SIMILAR SPECTRA) FOUND IN LAB BLANK.
(2)-INTERNAL OR SURROGATE STANDARD ADDED BY LABORATORY.
(3)-THIS COMPOUND ALREADY IDENTIFIED AND REPORTED AS TARGET COMPOUND.
(4)-PROBABLE BACKGROUND DUE TO SOLVENT OR CO2.
(5)-OTHER:

FORM I VOA-TIC

883750138

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ANALYSIS REPORT FOR VOLATILE ORGANICS BY GC/MS

			DATA FILES	ANALYSIS DATE
CLIENT	: KILLAM	Initial	: >G7347	08/03/93
LAB SAMPLE #	: E320322	Dilution #1	:	
MATRIX	: WATER	Dilution #2	:	
METHOD	: EPA 624			

	COMPOUND	RESULT (ug/L)	MDL (ug/L)	Q
1)	ACROLEIN	ND	500	
2)	ACRYLONITRILE	ND	400	
3)	BENZENE	3600	170	
4)	BROMOFORM	ND	120	
5)	BROMODICHLOROMETHANE	ND	130	
6)	BROMOMETHANE	ND	200	
7)	CARBON TETRACHLORIDE	ND	150	
8)	CHLOROBENZENE	69000	280	
9)	CHLOROETHANE	ND	200	
10)	2-CHLOROETHYL VINYL ETHER	ND	78	
11)	CHLOROFORM	ND	140	
12)	CHLOROMETHANE	ND	220	
13)	cis-1,3-DICHLOROPROPENE	ND	190	
14)	DIBROMOCHLOROMETHANE	ND	130	
15)	1,2-DICHLOROBENZENE	5500	360	
16)	1,3-DICHLOROBENZENE	ND	400	
17)	1,4-DICHLOROBENZENE	390	440	J
18)	1,1-DICHLOROETHANE	160	110	
19)	1,2-DICHLOROETHANE	ND	130	
20)	1,1-DICHLOROETHYLENE	ND	180	
21)	trans-1,2-DICHLOROETHYLENE	ND	190	
22)	trans-1,3-DICHLOROPROPENE	ND	140	
23)	1,2-DICHLOROPROPANE	ND	150	
24)	ETHYLBENZENE	340	300	
25)	METHYLENE CHLORIDE	ND	170	
26)	1,1,2,2-TETRACHLOROETHANE	ND	110	
27)	TETRACHLOROETHYLENE	8200	300	
28)	TOLUENE	5400	240	
29)	1,1,1-TRICHLOROETHANE	390	130	
30)	1,1,2-TRICHLOROETHANE	ND	170	
31)	TRICHLOROETHYLENE	1300	300	
32)	TRICHLOROFLUOROMETHANE	ND	180	
33)	VINYL CHLORIDE	490	200	
34)	XYLENE (TOTAL)	310	680	J

ND = NOT DETECTED
MDL= METHOD DETECTION LIMIT

(1) - RESULTS REPORTED FROM DILUTION #1
(2) - RESULTS REPORTED FROM DILUTION #2

QUALIFIERS (Q)
J =INDICATES AN ESTIMATED VALUE BELOW MDL
B =INDICATES COMPOUND FOUND IN THE ASSOCIATED BLANK AS WELL AS IN SAMPLE
E =ESTIMATED VALUE; EXCEEDS INSTRUMENT CALIBRATION RANGE

CERTIFICATIONS: NJ (12129) • NY (10983) • PA (68-408) • MA (NJ141) • CT (PH-0585) • MD (167) • DE • VA (00004) • NC (346) • SC (94009) • TN (2968)

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: KILLAM

Lab Sample ID: E320322

Date Analyzed: 8/03/93 0:02

Lab File ID: >G7347

Matrix: WATER FOR VOA

Number TICs found: 3 CONCENTRATION UNITS: ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST CONC	Q
1.		Unknown	3.20	20000.	1
2.	75070	Acetaldehyde (DOT)(8CI9CI)	4.16	2900.	1
3.	156605	Ethene, 1,2-dichloro-, (E)- (9CI) (cis-)	9.82	1300.	
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					

QUALIFIERS(Q);
(1)-THIS COMPOUND (OR SIMILAR SPECTRA) FOUND IN LAB BLANK.
(2)-INTERNAL OR SURROGATE STANDARD ADDED BY LABORATORY.
(3)-THIS COMPOUND ALREADY IDENTIFIED AND REPORTED AS TARGET COMPOUND.
(4)-PROBABLE BACKGROUND DUE TO SOLVENT OR CO2.
(5)-OTHER:

FORM I VOA-TIC

883750140

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ANALYSIS REPORT FOR VOLATILE ORGANICS BY GC/MS

			DATA FILES	ANALYSIS DATE
CLIENT	: KILLAM	Initial	: >G7361	08/03/93
LAB SAMPLE #:	E320323	Dilution #1	:	
MATRIX	: WATER	Dilution #2	:	
METHOD	: EPA 624			

	COMPOUND	RESULT (ug/L)	MDL (ug/L)	Q
1)	ACROLEIN	ND	2.5	
2)	ACRYLONITRILE	ND	2.0	
3)	BENZENE	ND	0.84	
4)	BROMOFORM	ND	0.61	
5)	BROMODICHLOROMETHANE	ND	0.66	
6)	BROMOMETHANE	ND	1.0	
7)	CARBON TETRACHLORIDE	ND	0.75	
8)	CHLOROBENZENE	25	1.4	
9)	CHLOROETHANE	ND	1.0	
10)	2-CHLOROETHYL VINYL ETHER	ND	0.39	
11)	CHLOROFORM	ND	0.68	
12)	CHLOROMETHANE	ND	1.1	
13)	cis-1,3-DICHLOROPROPENE	ND	0.93	
14)	DIBROMOCHLOROMETHANE	ND	0.63	
15)	1,2-DICHLOROBENZENE	6.6	1.8	
16)	1,3-DICHLOROBENZENE	ND	2.0	
17)	1,4-DICHLOROBENZENE	ND	2.2	
18)	1,1-DICHLOROETHANE	ND	0.57	
19)	1,2-DICHLOROETHANE	2.0	0.66	
20)	1,1-DICHLOROETHYLENE	ND	0.88	
21)	trans-1,2-DICHLOROETHYLENE	ND	0.94	
22)	trans-1,3-DICHLOROPROPENE	ND	0.70	
23)	1,2-DICHLOROPROPANE	ND	0.74	
24)	ETHYLBENZENE	ND	1.5	
25)	METHYLENE CHLORIDE	ND	0.84	
26)	1,1,2,2-TETRACHLOROETHANE	ND	0.56	
27)	TETRACHLOROETHYLENE	9.1	1.5	
28)	TOLUENE	1.5	1.2	
29)	1,1,1-TRICHLOROETHANE	ND	0.65	
30)	1,1,2-TRICHLOROETHANE	ND	0.86	
31)	TRICHLOROETHYLENE	11	1.5	
32)	TRICHLOROFLUOROMETHANE	ND	0.90	
33)	VINYL CHLORIDE	ND	1.0	
34)	XYLENE (TOTAL)	ND	3.4	

ND = NOT DETECTED
MDL= METHOD DETECTION LIMIT

(1) - RESULTS REPORTED FROM DILUTION #1
(2) - RESULTS REPORTED FROM DILUTION #2

QUALIFIERS (Q)
J =INDICATES AN ESTIMATED VALUE BELOW MDL
B =INDICATES COMPOUND FOUND IN THE ASSOCIATED BLANK AS WELL AS IN SAMPLE
E =ESTIMATED VALUE; EXCEEDS INSTRUMENT CALIBRATION RANGE

CERTIFICATIONS: NJ (12129) • NY (10983) • PA (68-408) • MA (NJ141) • CT (PH-0585) • MD (167) • DE • VA (00004) • NC (346) • SC (94009) • TN (2968)

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: KILLAM

Lab Sample ID: E320323

Date Analyzed: 8/03/93 18:30

Lab File ID: >G7361

Matrix: WATER FOR VOA

Number TICs found: 3 CONCENTRATION UNITS: ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST CONC	Q
1.		Unknown	3.20	200.	/
2.	156592	Ethene, 1,2-dichloro-, (cis) (Z)-	9.78	15.	
3.	622242	Benzene, (2-chloroethyl)- (8CI9CI)	29.86	3.	
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					

QUALIFIERS(Q);
(1)-THIS COMPOUND (OR SIMILAR SPECTRA) FOUND IN LAB BLANK.
(2)-INTERNAL OR SURROGATE STANDARD ADDED BY LABORATORY.
(3)-THIS COMPOUND ALREADY IDENTIFIED AND REPORTED AS TARGET COMPOUND.
(4)-PROBABLE BACKGROUND DUE TO SOLVENT OR CO2.
(5)-OTHER:

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883750142

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ANALYSIS REPORT FOR VOLATILE ORGANICS BY GC/MS

		DATA FILES	ANALYSIS DATE
CLIENT : KILLAM	Initial :	>G7322	07/31/93
LAB SAMPLE #: E320324	Dilution #1 :		
MATRIX : WATER	Dilution #2 :		
METHOD : EPA 624			

	COMPOUND	RESULT (ug/L)	MDL (ug/L)	Q
1)	ACROLEIN	ND	130	
2)	ACRYLONITRILE	ND	100	
3)	BENZENE	590	42	
4)	BROMOFORM	ND	31	
5)	BROMODICHLOROMETHANE	ND	33	
6)	BROMOMETHANE	ND	50	
7)	CARBON TETRACHLORIDE	ND	38	
8)	CHLOROBENZENE	7000	70	
9)	CHLOROETHANE	ND	50	
10)	2-CHLOROETHYL VINYL ETHER	ND	20	
11)	CHLOROFORM	ND	34	
12)	CHLOROMETHANE	ND	55	
13)	cis-1,3-DICHLOROPROPENE	ND	47	
14)	DIBROMOCHLOROMETHANE	ND	32	
15)	1,2-DICHLOROBENZENE	ND	90	
16)	1,3-DICHLOROBENZENE	ND	100	
17)	1,4-DICHLOROBENZENE	ND	110	
18)	1,1-DICHLOROETHANE	ND	29	
19)	1,2-DICHLOROETHANE	76	33	
20)	1,1-DICHLOROETHYLENE	ND	44	
21)	trans-1,2-DICHLOROETHYLENE	ND	47	
22)	trans-1,3-DICHLOROPROPENE	ND	35	
23)	1,2-DICHLOROPROPANE	ND	37	
24)	ETHYLBENZENE	ND	75	
25)	METHYLENE CHLORIDE	ND	42	
26)	1,1,2,2-TETRACHLOROETHANE	ND	28	
27)	TETRACHLOROETHYLENE	ND	75	
28)	TOLUENE	ND	60	
29)	1,1,1-TRICHLOROETHANE	ND	33	
30)	1,1,2-TRICHLOROETHANE	ND	43	
31)	TRICHLOROETHYLENE	ND	75	
32)	TRICHLOROFLUOROMETHANE	ND	45	
33)	VINYL CHLORIDE	ND	50	
34)	XYLENE (TOTAL)	ND	170	

ND = NOT DETECTED
MDL= METHOD DETECTION LIMIT

(1) - RESULTS REPORTED FROM DILUTION #1
(2) - RESULTS REPORTED FROM DILUTION #2

QUALIFIERS (Q)
J =INDICATES AN ESTIMATED VALUE BELOW MDL
B =INDICATES COMPOUND FOUND IN THE ASSOCIATED BLANK AS WELL AS IN SAMPLE
E =ESTIMATED VALUE; EXCEEDS INSTRUMENT CALIBRATION RANGE

CERTIFICATIONS: NJ (12129) • NY (10983) • PA (68-408) • MA (NJ141) • CT (PH-0585) • MD (167) • DE • VA (00004) • NC (346) • SC (94009) • TN (2968)

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: KILLAM

Lab Sample ID: E320324

Date Analyzed: 7/31/93 1:53

Lab File ID: >G7322

Matrix: WATER FOR VOA

Number TICs found: 3 CONCENTRATION UNITS: ug/L

CAS NUMBER	COMPOUND NAME	RT	EST CONC	Q
1.	Unknown	3.20	6200.	/
2. 75070	Acetaldehyde (DOT)(8CI9CI)	4.16	1000.	/
3. 622242	Benzene, (2-chloroethyl)- (8CI9CI)	29.97	300.	
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				

QUALIFIERS(Q);
(1)-THIS COMPOUND (OR SIMILAR SPECTRA) FOUND IN LAB BLANK.
(2)-INTERNAL OR SURROGATE STANDARD ADDED BY LABORATORY.
(3)-THIS COMPOUND ALREADY IDENTIFIED AND REPORTED AS TARGET COMPOUND.
(4)-PROBABLE BACKGROUND DUE TO SOLVENT OR CO2.
(5)-OTHER:

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ANALYSIS REPORT FOR VOLATILE ORGANICS BY GC/MS

			DATA FILES	ANALYSIS DATE
CLIENT	: KILLAM	Initial	: >G7338	08/02/93
LAB SAMPLE #	: E320325	Dilution #1	:	
MATRIX	: WATER	Dilution #2	:	
METHOD	: EPA 624			

	COMPOUND	RESULT (ug/L)	MDL (ug/L)	Q
1)	ACROLEIN	ND	2.5	
2)	ACRYLONITRILE	ND	2.0	
3)	BENZENE	ND	0.84	
4)	BROMOFORM	ND	0.61	
5)	BROMODICHLOROMETHANE	ND	0.66	
6)	BROMOMETHANE	ND	1.0	
7)	CARBON TETRACHLORIDE	ND	0.75	
8)	CHLOROBENZENE	12	1.4	
9)	CHLOROETHANE	ND	1.0	
10)	2-CHLOROETHYL VINYL ETHER	ND	0.39	
11)	CHLOROFORM	ND	0.68	
12)	CHLOROMETHANE	ND	1.1	
13)	cis-1,3-DICHLOROPROPENE	ND	0.93	
14)	DIBROMOCHLOROMETHANE	ND	0.63	
15)	1,2-DICHLOROBENZENE	2.8	1.8	
16)	1,3-DICHLOROBENZENE	ND	2.0	
17)	1,4-DICHLOROBENZENE	ND	2.2	
18)	1,1-DICHLOROETHANE	ND	0.57	
19)	1,2-DICHLOROETHANE	1.8	0.66	
20)	1,1-DICHLOROETHYLENE	ND	0.88	
21)	trans-1,2-DICHLOROETHYLENE	ND	0.94	
22)	trans-1,3-DICHLOROPROPENE	ND	0.70	
23)	1,2-DICHLOROPROPANE	ND	0.74	
24)	ETHYLBENZENE	ND	1.5	
25)	METHYLENE CHLORIDE	ND	0.84	
26)	1,1,2,2-TETRACHLOROETHANE	ND	0.56	
27)	TETRACHLOROETHYLENE	3.1	1.5	
28)	TOLUENE	ND	1.2	
29)	1,1,1-TRICHLOROETHANE	ND	0.65	
30)	1,1,2-TRICHLOROETHANE	ND	0.86	
31)	TRICHLOROETHYLENE	2.1	1.5	
32)	TRICHLOROFLUOROMETHANE	ND	0.90	
33)	VINYL CHLORIDE	ND	1.0	
34)	XYLENE (TOTAL)	ND	3.4	

ND = NOT DETECTED
MDL= METHOD DETECTION LIMIT

(1) - RESULTS REPORTED FROM DILUTION #1
(2) - RESULTS REPORTED FROM DILUTION #2

QUALIFIERS (Q)
J =INDICATES AN ESTIMATED VALUE BELOW MDL
B =INDICATES COMPOUND FOUND IN THE ASSOCIATED BLANK AS WELL AS IN SAMPLE
E =ESTIMATED VALUE; EXCEEDS INSTRUMENT CALIBRATION RANGE

CERTIFICATIONS: NJ (12129) • NY (10983) • PA (68-408) • MA (NJ141) • CT (PH-0585) • MD (167) • DE • VA (00004) • NC (346) • SC (94009) • TN (2968)

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: KILLAM

Lab Sample ID: E320325

Date Analyzed: 8/02/93 17:48

Lab File ID: >G7338

Matrix: WATER FOR VOA

Number TICs found: 3 CONCENTRATION UNITS: ug/L

CAS NUMBER	COMPOUND NAME	RT	EST CONC	Q
1.	Unknown	3.17	240.	1
2. 156592	Ethene, 1,2-dichloro-, (Z)- (cis) (9CI)	9.67	9.	
3. 622242	Benzene, (2-chloroethyl)- (8CI9CI)	29.74	29.	
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				

QUALIFIERS(Q);
(1)-THIS COMPOUND (OR SIMILAR SPECTRA) FOUND IN LAB BLANK.
(2)-INTERNAL OR SURROGATE STANDARD ADDED BY LABORATORY.
(3)-THIS COMPOUND ALREADY IDENTIFIED AND REPORTED AS TARGET COMPOUND.
(4)-PROBABLE BACKGROUND DUE TO SOLVENT OR CO2.
(5)-OTHER:

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ANALYSIS REPORT FOR VOLATILE ORGANICS BY GC/MS

			DATA FILES	ANALYSIS DATE
CLIENT	: KILLAM	Initial	: >G7333	08/02/93
LAB SAMPLE #:	E320326	Dilution #1	:	
MATRIX	: WATER	Dilution #2	:	
METHOD	: EPA 624			

	COMPOUND	RESULT (ug/L)	MDL (ug/L)	Q
1)	ACROLEIN	ND	2.5	
2)	ACRYLONITRILE	ND	2.0	
3)	BENZENE	ND	0.84	
4)	BROMOFORM	ND	0.61	
5)	BROMODICHLOROMETHANE	ND	0.66	
6)	BROMOMETHANE	ND	1.0	
7)	CARBON TETRACHLORIDE	ND	0.75	
8)	CHLOROBENZENE	ND	1.4	
9)	CHLOROETHANE	ND	1.0	
10)	2-CHLOROETHYL VINYL ETHER	ND	0.39	
11)	CHLOROFORM	ND	0.68	
12)	CHLOROMETHANE	ND	1.1	
13)	cis-1,3-DICHLOROPROPENE	ND	0.93	
14)	DIBROMOCHLOROMETHANE	ND	0.63	
15)	1,2-DICHLOROBENZENE	ND	1.8	
16)	1,3-DICHLOROBENZENE	ND	2.0	
17)	1,4-DICHLOROBENZENE	ND	2.2	
18)	1,1-DICHLOROETHANE	5.0	0.57	
19)	1,2-DICHLOROETHANE	ND	0.66	
20)	1,1-DICHLOROETHYLENE	ND	0.88	
21)	trans-1,2-DICHLOROETHYLENE	ND	0.94	
22)	trans-1,3-DICHLOROPROPENE	ND	0.70	
23)	1,2-DICHLOROPROPANE	ND	0.74	
24)	ETHYLBENZENE	ND	1.5	
25)	METHYLENE CHLORIDE	ND	0.84	
26)	1,1,2,2-TETRACHLOROETHANE	ND	0.56	
27)	TETRACHLOROETHYLENE	ND	1.5	
28)	TOLUENE	ND	1.2	
29)	1,1,1-TRICHLOROETHANE	38	0.65	
30)	1,1,2-TRICHLOROETHANE	ND	0.86	
31)	TRICHLOROETHYLENE	ND	1.5	
32)	TRICHLOROFLUOROMETHANE	ND	0.90	
33)	VINYL CHLORIDE	ND	1.0	
34)	XYLENE (TOTAL)	ND	3.4	

ND = NOT DETECTED
MDL= METHOD DETECTION LIMIT

(1) - RESULTS REPORTED FROM DILUTION #1
(2) - RESULTS REPORTED FROM DILUTION #2

QUALIFIERS (Q)
J =INDICATES AN ESTIMATED VALUE BELOW MDL
B =INDICATES COMPOUND FOUND IN THE ASSOCIATED BLANK AS WELL AS IN SAMPLE
E =ESTIMATED VALUE; EXCEEDS INSTRUMENT CALIBRATION RANGE

CERTIFICATIONS: NJ (12129) • NY (10983) • PA (68-408) • MA (NJ141) • CT (PH-0585) • MD (167) • DE • VA (00004) • NC (346) • SC (94009) • TN (2968)

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: KILLAM

Lab Sample ID: E320326

Date Analyzed: 8/02/93 13:52

Lab File ID: >G7333

Matrix: WATER FOR VOA

Number TICs found: 3 CONCENTRATION UNITS: ug/L

CAS NUMBER	COMPOUND NAME	RT	EST CONC	Q
1.	Unknown	3.18	250.	/
2. 354234	Ethane, 1,2-dichloro-1,1,2-trifluo	5.74	3.	
3. 108203	Diisopropyl ether (DOT)	8.77	8.	
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				

QUALIFIERS(Q);
(1)-THIS COMPOUND (OR SIMILAR SPECTRA) FOUND IN LAB BLANK.
(2)-INTERNAL OR SURROGATE STANDARD ADDED BY LABORATORY.
(3)-THIS COMPOUND ALREADY IDENTIFIED AND REPORTED AS TARGET COMPOUND.
(4)-PROBABLE BACKGROUND DUE TO SOLVENT OR CO2.
(5)-OTHER:

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ANALYSIS REPORT FOR VOLATILE ORGANICS BY GC/MS

			DATA FILES	ANALYSIS DATE
CLIENT	: KILLAM	Initial	: >G7336	08/02/93
LAB SAMPLE #	: E320327	Dilution #1	:	
MATRIX	: WATER	Dilution #2	:	
METHOD	: EPA 624			

	COMPOUND	RESULT (ug/L)	MDL (ug/L)	Q
1)	ACROLEIN	ND	2.5	
2)	ACRYLONITRILE	ND	2.0	
3)	BENZENE	ND	0.84	
4)	BROMOFORM	ND	0.61	
5)	BROMODICHLOROMETHANE	ND	0.66	
6)	BROMOMETHANE	ND	1.0	
7)	CARBON TETRACHLORIDE	ND	0.75	
8)	CHLOROBENZENE	ND	1.4	
9)	CHLOROETHANE	ND	1.0	
10)	2-CHLOROETHYL VINYL ETHER	ND	0.39	
11)	CHLOROFORM	1.1	0.68	
12)	CHLOROMETHANE	ND	1.1	
13)	cis-1,3-DICHLOROPROPENE	ND	0.93	
14)	DIBROMOCHLOROMETHANE	ND	0.63	
15)	1,2-DICHLOROBENZENE	ND	1.8	
16)	1,3-DICHLOROBENZENE	ND	2.0	
17)	1,4-DICHLOROBENZENE	ND	2.2	
18)	1,1-DICHLOROETHANE	ND	0.57	
19)	1,2-DICHLOROETHANE	ND	0.66	
20)	1,1-DICHLOROETHYLENE	ND	0.88	
21)	trans-1,2-DICHLOROETHYLENE	ND	0.94	
22)	trans-1,3-DICHLOROPROPENE	ND	0.70	
23)	1,2-DICHLOROPROPANE	ND	0.74	
24)	ETHYLBENZENE	ND	1.5	
25)	METHYLENE CHLORIDE	ND	0.84	
26)	1,1,2,2-TETRACHLOROETHANE	ND	0.56	
27)	TETRACHLOROETHYLENE	2.6	1.5	
28)	TOLUENE	ND	1.2	
29)	1,1,1-TRICHLOROETHANE	ND	0.65	
30)	1,1,2-TRICHLOROETHANE	ND	0.86	
31)	TRICHLOROETHYLENE	5.7	1.5	
32)	TRICHLOROFLUOROMETHANE	ND	0.90	
33)	VINYL CHLORIDE	1.5	1.0	
34)	XYLENE (TOTAL)	ND	3.4	

ND = NOT DETECTED
MDL= METHOD DETECTION LIMIT

(1) - RESULTS REPORTED FROM DILUTION #1
(2) - RESULTS REPORTED FROM DILUTION #2

QUALIFIERS (Q)
J =INDICATES AN ESTIMATED VALUE BELOW MDL
B =INDICATES COMPOUND FOUND IN THE ASSOCIATED BLANK AS WELL AS IN SAMPLE
E =ESTIMATED VALUE; EXCEEDS INSTRUMENT CALIBRATION RANGE

CERTIFICATIONS: NJ (12129) • NY (10983) • PA (68-408) • MA (NJ141) • CT (PH-0585) • MD (167) • DE • VA (00004) • NC (346) • SC (94009) • TN (2968)

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: KILLAM

Lab Sample ID: E320327

Date Analyzed: 8/02/93 15:56

Lab File ID: >G7336

Matrix: WATER FOR VOA

Number TICs found: 3 CONCENTRATION UNITS: ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST CONC	Q
1.		Unknown	3.14	240.	1
2.	156605	Ethene, 1,2-dichloro-, (E) (cis) (9CI)	9.66	15.	
3.	622242	Benzene, (2-chloroethyl)- (8CI9CI)	29.76	10.	
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					

QUALIFIERS(Q);
(1)-THIS COMPOUND (OR SIMILAR SPECTRA) FOUND IN LAB BLANK.
(2)-INTERNAL OR SURROGATE STANDARD ADDED BY LABORATORY.
(3)-THIS COMPOUND ALREADY IDENTIFIED AND REPORTED AS TARGET COMPOUND.
(4)-PROBABLE BACKGROUND DUE TO SOLVENT OR CO2.
(5)-OTHER:

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ANALYSIS REPORT FOR VOLATILE ORGANICS BY GC/MS

		DATA FILES	ANALYSIS DATE
CLIENT : KILLAM	Initial :	>G7335	08/02/93
LAB SAMPLE #: E320328	Dilution #1 :		
MATRIX : WATER	Dilution #2 :		
METHOD : EPA 624			

	COMPOUND	RESULT (ug/L)	MDL (ug/L)	Q
1)	ACROLEIN	ND	2.5	
2)	ACRYLONITRILE	ND	2.0	
3)	BENZENE	3.7	0.84	
4)	BROMOFORM	ND	0.61	
5)	BROMODICHLOROMETHANE	ND	0.66	
6)	BROMOMETHANE	ND	1.0	
7)	CARBON TETRACHLORIDE	ND	0.75	
8)	CHLOROBENZENE	63	1.4	
9)	CHLOROETHANE	ND	1.0	
10)	2-CHLOROETHYL VINYL ETHER	ND	0.39	
11)	CHLOROFORM	ND	0.68	
12)	CHLOROMETHANE	ND	1.1	
13)	cis-1,3-DICHLOROPROPENE	ND	0.93	
14)	DIBROMOCHLOROMETHANE	ND	0.63	
15)	1,2-DICHLOROBENZENE	2.5	1.8	
16)	1,3-DICHLOROBENZENE	ND	2.0	
17)	1,4-DICHLOROBENZENE	ND	2.2	
18)	1,1-DICHLOROETHANE	6.0	0.57	
19)	1,2-DICHLOROETHANE	ND	0.66	
20)	1,1-DICHLOROETHYLENE	ND	0.88	
21)	trans-1,2-DICHLOROETHYLENE	1.3	0.94	
22)	trans-1,3-DICHLOROPROPENE	ND	0.70	
23)	1,2-DICHLOROPROPANE	ND	0.74	
24)	ETHYLBENZENE	3.6	1.5	
25)	METHYLENE CHLORIDE	ND	0.84	
26)	1,1,2,2-TETRACHLOROETHANE	ND	0.56	
27)	TETRACHLOROETHYLENE	ND	1.5	
28)	TOLUENE	10	1.2	
29)	1,1,1-TRICHLOROETHANE	ND	0.65	
30)	1,1,2-TRICHLOROETHANE	ND	0.86	
31)	TRICHLOROETHYLENE	ND	1.5	
32)	TRICHLOROFLUOROMETHANE	ND	0.90	
33)	VINYL CHLORIDE	45	1.0	
34)	XYLENE (TOTAL)	3.0	3.4	J

ND = NOT DETECTED
MDL= METHOD DETECTION LIMIT

(1) - RESULTS REPORTED FROM DILUTION #1
(2) - RESULTS REPORTED FROM DILUTION #2

QUALIFIERS (Q)
J =INDICATES AN ESTIMATED VALUE BELOW MDL
B =INDICATES COMPOUND FOUND IN THE ASSOCIATED BLANK AS WELL AS IN SAMPLE
E =ESTIMATED VALUE; EXCEEDS INSTRUMENT CALIBRATION RANGE

CERTIFICATIONS: NJ (12129) • NY (10983) • PA (68-408) • MA (NJ141) • CT (PH-0585) • MD (167) • DE • VA (00004) • NC (346) • SC (94009) • TN (2968)

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: KILLAM

Lab Sample ID: E320328

Date Analyzed: 8/02/93 15:15

Lab File ID: >G7335

Matrix: WATER FOR VOA

Number TICs found: 4 CONCENTRATION UNITS: ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST CONC	Q
1.		Unknown	3.16	250.	1
2.		Unknown (cis-1,2-Dichloroethylene)	9.68	32.	
3.		Unknown	9.90	6.	
4.	622242	Benzene, (2-chloroethyl)- (8CI9CI)	29.76	18.	
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					

QUALIFIERS(Q);
(1)-THIS COMPOUND (OR SIMILAR SPECTRA) FOUND IN LAB BLANK.
(2)-INTERNAL OR SURROGATE STANDARD ADDED BY LABORATORY.
(3)-THIS COMPOUND ALREADY IDENTIFIED AND REPORTED AS TARGET COMPOUND.
(4)-PROBABLE BACKGROUND DUE TO SOLVENT OR CO2.
(5)-OTHER:

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ANALYSIS REPORT FOR VOLATILE ORGANICS BY GC/MS

			DATA FILES	ANALYSIS DATE
CLIENT	: KILLAM	Initial	: >G7315	07/30/93
LAB SAMPLE #	: E320329	Dilution #1	:	
MATRIX	: WATER	Dilution #2	:	
METHOD	: EPA 624			

	COMPOUND	RESULT (ug/L)	MDL (ug/L)	Q
1)	ACROLEIN	ND	2.5	
2)	ACRYLONITRILE	ND	2.0	
3)	BENZENE	ND	0.84	
4)	BROMOFORM	ND	0.61	
5)	BROMODICHLOROMETHANE	ND	0.66	
6)	BROMOMETHANE	ND	1.0	
7)	CARBON TETRACHLORIDE	ND	0.75	
8)	CHLOROBENZENE	1.4	1.4	
9)	CHLOROETHANE	ND	1.0	
10)	2-CHLOROETHYL VINYL ETHER	ND	0.39	
11)	CHLOROFORM	ND	0.68	
12)	CHLOROMETHANE	ND	1.1	
13)	cis-1,3-DICHLOROPROPENE	ND	0.93	
14)	DIBROMOCHLOROMETHANE	ND	0.63	
15)	1,2-DICHLOROBENZENE	ND	1.8	
16)	1,3-DICHLOROBENZENE	ND	2.0	
17)	1,4-DICHLOROBENZENE	ND	2.2	
18)	1,1-DICHLOROETHANE	ND	0.57	
19)	1,2-DICHLOROETHANE	0.78	0.66	
20)	1,1-DICHLOROETHYLENE	ND	0.88	
21)	trans-1,2-DICHLOROETHYLENE	ND	0.94	
22)	trans-1,3-DICHLOROPROPENE	ND	0.70	
23)	1,2-DICHLOROPROPANE	ND	0.74	
24)	ETHYLBENZENE	ND	1.5	
25)	METHYLENE CHLORIDE	ND	0.84	
26)	1,1,2,2-TETRACHLOROETHANE	ND	0.56	
27)	TETRACHLOROETHYLENE	ND	1.5	
28)	TOLUENE	ND	1.2	
29)	1,1,1-TRICHLOROETHANE	ND	0.65	
30)	1,1,2-TRICHLOROETHANE	ND	0.86	
31)	TRICHLOROETHYLENE	ND	1.5	
32)	TRICHLOROFLUOROMETHANE	ND	0.90	
33)	VINYL CHLORIDE	ND	1.0	
34)	XYLENE (TOTAL)	ND	3.4	

ND = NOT DETECTED
MDL= METHOD DETECTION LIMIT

(1) - RESULTS REPORTED FROM DILUTION #1
(2) - RESULTS REPORTED FROM DILUTION #2

QUALIFIERS (Q)
J =INDICATES AN ESTIMATED VALUE BELOW MDL
B =INDICATES COMPOUND FOUND IN THE ASSOCIATED BLANK AS WELL AS IN SAMPLE
E =ESTIMATED VALUE; EXCEEDS INSTRUMENT CALIBRATION RANGE

CERTIFICATIONS: NJ (12129) • NY (10983) • PA (68-408) • MA (NJ141) • CT (PH-0585) • MD (167) • DE • VA (00004) • NC (346) • SC (94009) • TN (2968)

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: KILLAM

Lab Sample ID: E320329

Date Analyzed: 7/30/93 21:05

Lab File ID: >G7315

Matrix: WATER FOR VOA

Number TICs found: 5 CONCENTRATION UNITS: ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST CONC	Q
1.		Unknown	3.25	250.	1
2.	108203	Diisopropyl ether (DOT)	8.94	30.	
3.	694871	Bicyclo[4.2.0]octa-1,3,5-triene (8	21.63	3.	
4.	111842	Nonane (8CI9CI)	24.45	4.	
5.	622242	Benzene, (2-chloroethyl)- (8CI9CI)	29.98	33.	
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					

QUALIFIERS(Q):
(1)-THIS COMPOUND (OR SIMILAR SPECTRA) FOUND IN LAB BLANK.
(2)-INTERNAL OR SURROGATE STANDARD ADDED BY LABORATORY.
(3)-THIS COMPOUND ALREADY IDENTIFIED AND REPORTED AS TARGET COMPOUND.
(4)-PROBABLE BACKGROUND DUE TO SOLVENT OR CO2.
(5)-OTHER:

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ANALYSIS REPORT FOR VOLATILE ORGANICS BY GC/MS

		DATA FILES	ANALYSIS DATE
CLIENT : KILLAM	Initial :	>E0109	07/30/93
LAB SAMPLE #: E320330	Dilution #1 :		
MATRIX : WATER	Dilution #2 :		
METHOD : EPA 624			

COMPOUND	RESULT (ug/L)	MDL (ug/L)	Q
1) ACROLEIN	ND	50	
2) ACRYLONITRILE	ND	40	
3) BENZENE	600	17	
4) BROMOFORM	ND	12	
5) BROMODICHLOROMETHANE	ND	13	
6) BROMOMETHANE	ND	20	
7) CARBON TETRACHLORIDE	ND	15	
8) CHLOROBENZENE	2000	28	
9) CHLOROETHANE	ND	20	
10) 2-CHLOROETHYL VINYL ETHER	ND	7.8	
11) CHLOROFORM	ND	14	
12) CHLOROMETHANE	ND	22	
13) cis-1,3-DICHLOROPROPENE	ND	19	
14) DIBROMOCHLOROMETHANE	ND	13	
15) 1,2-DICHLOROBENZENE	ND	36	
16) 1,3-DICHLOROBENZENE	ND	40	
17) 1,4-DICHLOROBENZENE	ND	44	
18) 1,1-DICHLOROETHANE	ND	11	
19) 1,2-DICHLOROETHANE	ND	13	
20) 1,1-DICHLOROETHYLENE	ND	18	
21) trans-1,2-DICHLOROETHYLENE	ND	19	
22) trans-1,3-DICHLOROPROPENE	ND	14	
23) 1,2-DICHLOROPROPANE	ND	15	
24) ETHYLBENZENE	ND	30	
25) METHYLENE CHLORIDE	ND	17	
26) 1,1,2,2-TETRACHLOROETHANE	ND	11	
27) TETRACHLOROETHYLENE	ND	30	
28) TOLUENE	ND	24	
29) 1,1,1-TRICHLOROETHANE	ND	13	
30) 1,1,2-TRICHLOROETHANE	ND	17	
31) TRICHLOROETHYLENE	ND	30	
32) TRICHLOROFLUOROMETHANE	ND	18	
33) VINYL CHLORIDE	ND	20	
34) XYLENE (TOTAL)	ND	68	

ND = NOT DETECTED
MDL= METHOD DETECTION LIMIT

(1) - RESULTS REPORTED FROM DILUTION #1
(2) - RESULTS REPORTED FROM DILUTION #2

QUALIFIERS (Q)
J =INDICATES AN ESTIMATED VALUE BELOW MDL
B =INDICATES COMPOUND FOUND IN THE ASSOCIATED BLANK AS WELL AS IN SAMPLE
E =ESTIMATED VALUE; EXCEEDS INSTRUMENT CALIBRATION RANGE

CERTIFICATIONS: NJ (12129) • NY (10983) • PA (68-408) • MA (NJ141) • CT (PH-0585) • MD (167) • DE • VA (00004) • NC (346) • SC (94009) • TN (2968)

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: KILLAM

Lab Sample ID: E320330

Date Analyzed: 7/30/93 22:23

Lab File ID: >E0109

Matrix: WATER FOR VOA

Number TICs found: 1 CONCENTRATION UNITS: ug/L

CAS NUMBER	COMPOUND NAME	RT	EST CONC	Q
1.	Unknown	3.65	700.	1
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				

QUALIFIERS(Q);
(1)-THIS COMPOUND (OR SIMILAR SPECTRA) FOUND IN LAB BLANK.
(2)-INTERNAL OR SURROGATE STANDARD ADDED BY LABORATORY.
(3)-THIS COMPOUND ALREADY IDENTIFIED AND REPORTED AS TARGET COMPOUND.
(4)-PROBABLE BACKGROUND DUE TO SOLVENT OR CO2.
(5)-OTHER:

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ANALYSIS REPORT FOR VOLATILE ORGANICS BY GC/MS

			DATA FILES	ANALYSIS DATE
CLIENT	: KILLAM	Initial	: >E0110	07/30/93
LAB SAMPLE #	: E320331	Dilution #1	:	
MATRIX	: WATER	Dilution #2	:	
METHOD	: EPA 624			

	COMPOUND	RESULT (ug/L)	MDL (ug/L)	Q
1)	ACROLEIN	ND	50	
2)	ACRYLONITRILE	ND	40	
3)	BENZENE	140	17	
4)	BROMOFORM	ND	12	
5)	BROMODICHLOROMETHANE	ND	13	
6)	BROMOMETHANE	ND	20	
7)	CARBON TETRACHLORIDE	ND	15	
8)	CHLOROBENZENE	1700	28	
9)	CHLOROETHANE	ND	20	
10)	2-CHLOROETHYL VINYL ETHER	ND	7.8	
11)	CHLOROFORM	ND	14	
12)	CHLOROMETHANE	ND	22	
13)	cis-1,3-DICHLOROPROPENE	ND	19	
14)	DIBROMOCHLOROMETHANE	ND	13	
15)	1,2-DICHLOROBENZENE	ND	36	
16)	1,3-DICHLOROBENZENE	ND	40	
17)	1,4-DICHLOROBENZENE	ND	44	
18)	1,1-DICHLOROETHANE	ND	11	
19)	1,2-DICHLOROETHANE	ND	13	
20)	1,1-DICHLOROETHYLENE	ND	18	
21)	trans-1,2-DICHLOROETHYLENE	ND	19	
22)	trans-1,3-DICHLOROPROPENE	ND	14	
23)	1,2-DICHLOROPROPANE	ND	15	
24)	ETHYLBENZENE	ND	30	
25)	METHYLENE CHLORIDE	ND	17	
26)	1,1,2,2-TETRACHLOROETHANE	ND	11	
27)	TETRACHLOROETHYLENE	ND	30	
28)	TOLUENE	ND	24	
29)	1,1,1-TRICHLOROETHANE	ND	13	
30)	1,1,2-TRICHLOROETHANE	ND	17	
31)	TRICHLOROETHYLENE	ND	30	
32)	TRICHLOROFLUOROMETHANE	ND	18	
33)	VINYL CHLORIDE	ND	20	
34)	XYLENE (TOTAL)	ND	68	

ND = NOT DETECTED
MDL= METHOD DETECTION LIMIT

(1) - RESULTS REPORTED FROM DILUTION #1
(2) - RESULTS REPORTED FROM DILUTION #2

QUALIFIERS (Q)
J =INDICATES AN ESTIMATED VALUE BELOW MDL
B =INDICATES COMPOUND FOUND IN THE ASSOCIATED BLANK AS WELL AS IN SAMPLE
E =ESTIMATED VALUE; EXCEEDS INSTRUMENT CALIBRATION RANGE

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: KILLAM

Lab Sample ID: E320331

Date Analyzed: 7/30/93 23:05

Lab File ID: >E0110

Matrix: WATER FOR VOA

Number TICs found: 1 CONCENTRATION UNITS: ug/L

CAS NUMBER	COMPOUND NAME	RT	EST CONC	Q
1.	Unknown	3.62	270.	1
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				

QUALIFIERS(Q);
(1)-THIS COMPOUND (OR SIMILAR SPECTRA) FOUND IN LAB BLANK.
(2)-INTERNAL OR SURROGATE STANDARD ADDED BY LABORATORY.
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(4)-PROBABLE BACKGROUND DUE TO SOLVENT OR CO2.
(5)-OTHER:

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ANALYSIS REPORT FOR VOLATILE ORGANICS BY GC/MS

			DATA FILES	ANALYSIS DATE
CLIENT	: KILLAM	Initial	: >E0104	07/30/93
LAB SAMPLE #	: E320332	Dilution #1	: >G7342	08/02/93
MATRIX	: WATER	Dilution #2	:	
METHOD	: EPA 624			

	COMPOUND	RESULT (ug/L)	MDL (ug/L)	Q
1)	ACROLEIN	ND	2.5	
2)	ACRYLONITRILE	ND	2.0	
3)	BENZENE	78	0.84	
4)	BROMOFORM	ND	0.61	
5)	BROMODICHLOROMETHANE	ND	0.66	
6)	BROMOMETHANE	ND	1.0	
7)	CARBON TETRACHLORIDE	ND	0.75	
8)	CHLOROBENZENE	1800(1)	7.0	
9)	CHLOROETHANE	ND	1.0	
10)	2-CHLOROETHYL VINYL ETHER	ND	0.39	
11)	CHLOROFORM	ND	0.68	
12)	CHLOROMETHANE	ND	1.1	
13)	cis-1,3-DICHLOROPROPENE	ND	0.93	
14)	DIBROMOCHLOROMETHANE	ND	0.63	
15)	1,2-DICHLOROBENZENE	16	1.8	
16)	1,3-DICHLOROBENZENE	1.5	2.0	J
17)	1,4-DICHLOROBENZENE	5.8	2.2	
18)	1,1-DICHLOROETHANE	1.6	0.57	
19)	1,2-DICHLOROETHANE	ND	0.66	
20)	1,1-DICHLOROETHYLENE	ND	0.88	
21)	trans-1,2-DICHLOROETHYLENE	ND	0.94	
22)	trans-1,3-DICHLOROPROPENE	ND	0.70	
23)	1,2-DICHLOROPROPANE	ND	0.74	
24)	ETHYLBENZENE	3.7	1.5	
25)	METHYLENE CHLORIDE	13	0.84	
26)	1,1,2,2-TETRACHLOROETHANE	ND	0.56	
27)	TETRACHLOROETHYLENE	2.1	1.5	
28)	TOLUENE	11	1.2	
29)	1,1,1-TRICHLOROETHANE	ND	0.65	
30)	1,1,2-TRICHLOROETHANE	ND	0.86	
31)	TRICHLOROETHYLENE	7.6	1.5	
32)	TRICHLOROFLUOROMETHANE	ND	0.90	
33)	VINYL CHLORIDE	ND	1.0	
34)	XYLENE (TOTAL)	4.2	3.4	

ND = NOT DETECTED
MDL= METHOD DETECTION LIMIT

(1) - RESULTS REPORTED FROM DILUTION #1
(2) - RESULTS REPORTED FROM DILUTION #2

QUALIFIERS (Q)
J =INDICATES AN ESTIMATED VALUE BELOW MDL
B =INDICATES COMPOUND FOUND IN THE ASSOCIATED BLANK AS WELL AS IN SAMPLE
E =ESTIMATED VALUE; EXCEEDS INSTRUMENT CALIBRATION RANGE

CERTIFICATIONS: NJ (12129) • NY (10983) • PA (68-408) • MA (NJ141) • CT (PH-0585) • MD (167) • DE • VA (00004) • NC (346) • SC (94009) • TN (2968)

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: KILLAM

Lab Sample ID: E320332

Date Analyzed: 7/30/93 18:50

Lab File ID: >E0104

Matrix: WATER FOR VOA

Number TICs found: 3 CONCENTRATION UNITS: ug/L

CAS NUMBER	COMPOUND NAME	RT	EST CONC	Q
1.	Unknown	3.17	120.	1
2.	Unknown	9.59	6.	
3. 156592	Ethene, 1,2-dichloro-(cis), (Z)- (	10.46	29.	
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				

QUALIFIERS(Q);
(1)-THIS COMPOUND (OR SIMILAR SPECTRA) FOUND IN LAB BLANK.
(2)-INTERNAL OR SURROGATE STANDARD ADDED BY LABORATORY.
(3)-THIS COMPOUND ALREADY IDENTIFIED AND REPORTED AS TARGET COMPOUND.
(4)-PROBABLE BACKGROUND DUE TO SOLVENT OR CO2.
(5)-OTHER:

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ANALYSIS REPORT FOR VOLATILE ORGANICS BY GC/MS

			DATA FILES	ANALYSIS DATE
CLIENT	: KILLAM	Initial	: >E0107	07/30/93
LAB SAMPLE #:	E320333	Dilution #1	: >G7364	08/03/93
MATRIX	: WATER	Dilution #2	:	
METHOD	: EPA 624			

	COMPOUND	RESULT (ug/L)	MDL (ug/L)	Q
1)	ACROLEIN	ND	13	
2)	ACRYLONITRILE	ND	10	
3)	BENZENE	2400(1)	84	
4)	BROMOFORM	ND	3.1	
5)	BROMODICHLOROMETHANE	ND	3.3	
6)	BROMOMETHANE	ND	5.0	
7)	CARBON TETRACHLORIDE	ND	3.8	
8)	CHLOROBENZENE	17000(1)	140	
9)	CHLOROETHANE	21	5.0	
10)	2-CHLOROETHYL VINYL ETHER	ND	2.0	
11)	CHLOROFORM	ND	3.4	
12)	CHLOROMETHANE	ND	5.5	
13)	cis-1,3-DICHLOROPROPENE	ND	4.6	
14)	DIBROMOCHLOROMETHANE	ND	3.2	
15)	1,2-DICHLOROBENZENE	470	9.0	
16)	1,3-DICHLOROBENZENE	100	10	
17)	1,4-DICHLOROBENZENE	200	11	
18)	1,1-DICHLOROETHANE	ND	2.9	
19)	1,2-DICHLOROETHANE	ND	3.3	
20)	1,1-DICHLOROETHYLENE	ND	4.4	
21)	trans-1,2-DICHLOROETHYLENE	ND	4.7	
22)	trans-1,3-DICHLOROPROPENE	ND	3.5	
23)	1,2-DICHLOROPROPANE	ND	3.7	
24)	ETHYLBENZENE	62	7.5	
25)	METHYLENE CHLORIDE	ND	4.2	
26)	1,1,2,2-TETRACHLOROETHANE	ND	2.8	
27)	TETRACHLOROETHYLENE	ND	7.5	
28)	TOLUENE	160	6.0	
29)	1,1,1-TRICHLOROETHANE	ND	3.3	
30)	1,1,2-TRICHLOROETHANE	ND	4.3	
31)	TRICHLOROETHYLENE	ND	7.5	
32)	TRICHLOROFLUOROMETHANE	ND	4.5	
33)	VINYL CHLORIDE	ND	5.0	
34)	XYLENE (TOTAL)	43	17	

ND = NOT DETECTED
MDL= METHOD DETECTION LIMIT

(1) - RESULTS REPORTED FROM DILUTION #1
(2) - RESULTS REPORTED FROM DILUTION #2

QUALIFIERS (Q)
J =INDICATES AN ESTIMATED VALUE BELOW MDL
B =INDICATES COMPOUND FOUND IN THE ASSOCIATED BLANK AS WELL AS IN SAMPLE
E =ESTIMATED VALUE; EXCEEDS INSTRUMENT CALIBRATION RANGE

CERTIFICATIONS: NJ (12129) • NY (10983) • PA (68-408) • MA (NJ141) • CT (PH-0585) • MD (167) • DE • VA (00004) • NC (346) • SC (94009) • TN (2968)

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: KILLAM

Lab Sample ID: E320333

Date Analyzed: 7/30/93 20:58

Lab File ID: >E0107

Matrix: WATER FOR VOA

Number TICs found: 2 CONCENTRATION UNITS: ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST CONC	Q
1.		Unknown	3.26	320.	1
2.	108203	Diisopropyl ether (DOT)	9.59	91.	
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					

QUALIFIERS(Q);
(1)-THIS COMPOUND (OR SIMILAR SPECTRA) FOUND IN LAB BLANK.
(2)-INTERNAL OR SURROGATE STANDARD ADDED BY LABORATORY.
(3)-THIS COMPOUND ALREADY IDENTIFIED AND REPORTED AS TARGET COMPOUND.
(4)-PROBABLE BACKGROUND DUE TO SOLVENT OR CO2.
(5)-OTHER:

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ANALYSIS REPORT FOR VOLATILE ORGANICS BY GC/MS

			DATA FILES	ANALYSIS DATE
CLIENT	: KILLAM	Initial	: >E0100	07/30/93
LAB SAMPLE #	: E320334	Dilution #1	: >E0116	07/31/93
MATRIX	: WATER	Dilution #2	:	
METHOD	: EPA 624			

	COMPOUND	RESULT (ug/L)	MDL (ug/L)	Q
1)	ACROLEIN	ND	250	
2)	ACRYLONITRILE	ND	200	
3)	BENZENE	ND	84	
4)	BROMOFORM	ND	61	
5)	BROMODICHLOROMETHANE	ND	66	
6)	BROMOMETHANE	ND	100	
7)	CARBON TETRACHLORIDE	ND	75	
8)	CHLOROBENZENE	110000(1)	1400	
9)	CHLOROETHANE	ND	100	
10)	2-CHLOROETHYL VINYL ETHER	14000	39	
11)	CHLOROFORM	2500	68	
12)	CHLOROMETHANE	ND	110	
13)	cis-1,3-DICHLOROPROPENE	ND	93	
14)	DIBROMOCHLOROMETHANE	ND	63	
15)	1,2-DICHLOROBENZENE	2500	180	
16)	1,3-DICHLOROBENZENE	ND	200	
17)	1,4-DICHLOROBENZENE	ND	220	
18)	1,1-DICHLOROETHANE	1100	57	
19)	1,2-DICHLOROETHANE	180000(1)	660	
20)	1,1-DICHLOROETHYLENE	ND	88	
21)	trans-1,2-DICHLOROETHYLENE	ND	94	
22)	trans-1,3-DICHLOROPROPENE	ND	70	
23)	1,2-DICHLOROPROPANE	ND	74	
24)	ETHYLBENZENE	110	150	J
25)	METHYLENE CHLORIDE	250000(1)	840	
26)	1,1,2,2-TETRACHLOROETHANE	ND	56	
27)	TETRACHLOROETHYLENE	5400	150	
28)	TOLUENE	1900	120	
29)	1,1,1-TRICHLOROETHANE	ND	65	
30)	1,1,2-TRICHLOROETHANE	ND	86	
31)	TRICHLOROETHYLENE	10000	150	
32)	TRICHLOROFLUOROMETHANE	ND	90	
33)	VINYL CHLORIDE	ND	100	
34)	XYLENE (TOTAL)	ND	340	

ND = NOT DETECTED
MDL= METHOD DETECTION LIMIT

(1) - RESULTS REPORTED FROM DILUTION #1
(2) - RESULTS REPORTED FROM DILUTION #2

QUALIFIERS (Q)
J =INDICATES AN ESTIMATED VALUE BELOW MDL
B =INDICATES COMPOUND FOUND IN THE ASSOCIATED BLANK AS WELL AS IN SAMPLE
E =ESTIMATED VALUE; EXCEEDS INSTRUMENT CALIBRATION RANGE

CERTIFICATIONS: NJ (12129) • NY (10983) • PA (68-408) • MA (NJ141) • CT (PH-0585) • MD (167) • DE • VA (00004) • NC (346) • SC (94009) • TN (2968)

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: KILLAM

Lab Sample ID: E320334

Date Analyzed: 7/30/93 15:29

Lab File ID: >E0100

Matrix: WATER FOR VOA

Number TICs found: 4 CONCENTRATION UNITS: ug/L

CAS NUMBER	COMPOUND NAME	RT	EST CONC	Q
1.	Unknown	3.35	1400.	1
2.	Unknown	7.57	350.	
3. 108203	Diisopropyl ether (DOT)	9.68	7100.	
4. 78933	2-Butanone (8CI9CI)	10.60	2800.	
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				

QUALIFIERS(Q);
(1)-THIS COMPOUND (OR SIMILAR SPECTRA) FOUND IN LAB BLANK.
(2)-INTERNAL OR SURROGATE STANDARD ADDED BY LABORATORY.
(3)-THIS COMPOUND ALREADY IDENTIFIED AND REPORTED AS TARGET COMPOUND.
(4)-PROBABLE BACKGROUND DUE TO SOLVENT OR CO2.
(5)-OTHER:

FORM I VOA-TIC

883750164

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ANALYSIS REPORT FOR VOLATILE ORGANICS BY GC/MS

			DATA FILES	ANALYSIS DATE
CLIENT	: KILLAM	Initial	: >G7337	08/02/93
LAB SAMPLE #	: E320335	Dilution #1	:	
MATRIX	: WATER	Dilution #2	:	
METHOD	: EPA 624			

	COMPOUND	RESULT (ug/L)	MDL (ug/L)	Q
1)	ACROLEIN	ND	2.5	
2)	ACRYLONITRILE	ND	2.0	
3)	BENZENE	ND	0.84	
4)	BROMOFORM	ND	0.61	
5)	BROMODICHLOROMETHANE	ND	0.66	
6)	BROMOMETHANE	ND	1.0	
7)	CARBON TETRACHLORIDE	ND	0.75	
8)	CHLOROBENZENE	1.1	1.4	J
9)	CHLOROETHANE	ND	1.0	
10)	2-CHLOROETHYL VINYL ETHER	ND	0.39	
11)	CHLOROFORM	ND	0.68	
12)	CHLOROMETHANE	ND	1.1	
13)	cis-1,3-DICHLOROPROPENE	ND	0.93	
14)	DIBROMOCHLOROMETHANE	ND	0.63	
15)	1,2-DICHLOROBENZENE	ND	1.8	
16)	1,3-DICHLOROBENZENE	ND	2.0	
17)	1,4-DICHLOROBENZENE	ND	2.2	
18)	1,1-DICHLOROETHANE	5.0	0.57	
19)	1,2-DICHLOROETHANE	ND	0.66	
20)	1,1-DICHLOROETHYLENE	ND	0.88	
21)	trans-1,2-DICHLOROETHYLENE	ND	0.94	
22)	trans-1,3-DICHLOROPROPENE	ND	0.70	
23)	1,2-DICHLOROPROPANE	ND	0.74	
24)	ETHYLBENZENE	ND	1.5	
25)	METHYLENE CHLORIDE	ND	0.84	
26)	1,1,2,2-TETRACHLOROETHANE	ND	0.56	
27)	TETRACHLOROETHYLENE	ND	1.5	
28)	TOLUENE	ND	1.2	
29)	1,1,1-TRICHLOROETHANE	41	0.65	
30)	1,1,2-TRICHLOROETHANE	ND	0.86	
31)	TRICHLOROETHYLENE	ND	1.5	
32)	TRICHLOROFLUOROMETHANE	ND	0.90	
33)	VINYL CHLORIDE	ND	1.0	
34)	XYLENE (TOTAL)	ND	3.4	

ND = NOT DETECTED
MDL= METHOD DETECTION LIMIT

(1) - RESULTS REPORTED FROM DILUTION #1
(2) - RESULTS REPORTED FROM DILUTION #2

QUALIFIERS (Q)
J =INDICATES AN ESTIMATED VALUE BELOW MDL
B =INDICATES COMPOUND FOUND IN THE ASSOCIATED BLANK AS WELL AS IN SAMPLE
E =ESTIMATED VALUE; EXCEEDS INSTRUMENT CALIBRATION RANGE

CERTIFICATIONS: NJ (12129) • NY (10983) • PA (68-408) • MA (NJ141) • CT (PH-0585) • MD (167) • DE • VA (00004) • NC (346) • SC (94009) • TN (2968)

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: KILLAM

Lab Sample ID: E320335

Date Analyzed: 8/02/93 17:07

Lab File ID: >G7337

Matrix: WATER FOR VOA

Number TICs found: 3 CONCENTRATION UNITS: ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST CONC	Q
1.		Unknown	3.16	260.	1
2.		Unknown	5.76	4.	
3.	622242	Benzene, (2-chloroethyl)- (8CI9CI)	29.77	7.	
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					

QUALIFIERS(Q);
(1)-THIS COMPOUND (OR SIMILAR SPECTRA) FOUND IN LAB BLANK.
(2)-INTERNAL OR SURROGATE STANDARD ADDED BY LABORATORY.
(3)-THIS COMPOUND ALREADY IDENTIFIED AND REPORTED AS TARGET COMPOUND.
(4)-PROBABLE BACKGROUND DUE TO SOLVENT OR CO2.
(5)-OTHER:

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ANALYSIS REPORT FOR VOLATILE ORGANICS BY GC/MS

			DATA FILES	ANALYSIS DATE
CLIENT	: KILLAM	Initial	: >E0106	07/30/93
LAB SAMPLE #	: E320336	Dilution #1	: >G7379	08/04/93
MATRIX	: WATER	Dilution #2	:	
METHOD	: EPA 624			

	COMPOUND	RESULT (ug/L)	MDL (ug/L)	Q
1)	ACROLEIN	ND	13	
2)	ACRYLONITRILE	ND	10	
3)	BENZENE	3500(1)	170	
4)	BROMOFORM	ND	3.1	
5)	BROMODICHLOROMETHANE	ND	3.3	
6)	BROMOMETHANE	ND	5.0	
7)	CARBON TETRACHLORIDE	ND	3.8	
8)	CHLOROBENZENE	70000(1)	280	
9)	CHLOROETHANE	ND	5.0	
10)	2-CHLOROETHYL VINYL ETHER	110	2.0	
11)	CHLOROFORM	21	3.4	
12)	CHLOROMETHANE	ND	5.5	
13)	cis-1,3-DICHLOROPROPENE	ND	4.6	
14)	DIBROMOCHLOROMETHANE	ND	3.2	
15)	1,2-DICHLOROBENZENE	5400(1)	360	
16)	1,3-DICHLOROBENZENE	ND	10	
17)	1,4-DICHLOROBENZENE	340	11	
18)	1,1-DICHLOROETHANE	110	2.9	
19)	1,2-DICHLOROETHANE	330	3.3	
20)	1,1-DICHLOROETHYLENE	32	4.4	
21)	trans-1,2-DICHLOROETHYLENE	ND	4.7	
22)	trans-1,3-DICHLOROPROPENE	ND	3.5	
23)	1,2-DICHLOROPROPANE	ND	3.7	
24)	ETHYLBENZENE	250	7.5	
25)	METHYLENE CHLORIDE	23	4.2	
26)	1,1,2,2-TETRACHLOROETHANE	ND	2.8	
27)	TETRACHLOROETHYLENE	8000(1)	300	
28)	TOLUENE	5300(1)	240	
29)	1,1,1-TRICHLOROETHANE	320	3.3	
30)	1,1,2-TRICHLOROETHANE	ND	4.3	
31)	TRICHLOROETHYLENE	1100	7.5	
32)	TRICHLOROFLUOROMETHANE	ND	4.5	
33)	VINYL CHLORIDE	90	5.0	
34)	XYLENE (TOTAL)	190	17	

ND = NOT DETECTED
MDL= METHOD DETECTION LIMIT

(1) - RESULTS REPORTED FROM DILUTION #1
(2) - RESULTS REPORTED FROM DILUTION #2

QUALIFIERS (Q)
J =INDICATES AN ESTIMATED VALUE BELOW MDL
B =INDICATES COMPOUND FOUND IN THE ASSOCIATED BLANK AS WELL AS IN SAMPLE
E =ESTIMATED VALUE; EXCEEDS INSTRUMENT CALIBRATION RANGE

CERTIFICATIONS: NJ (12129) • NY (10983) • PA (68-408) • MA (NJ141) • CT (PH-0585) • MD (167) • DE • VA (00004) • NC (346) • SC (94009) • TN (2968)

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: KILLAM

Lab Sample ID: E320336

Date Analyzed: 7/30/93 20:15

Lab File ID: >E0106

Matrix: WATER FOR VOA

Number TICs found: 3 CONCENTRATION UNITS: ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST CONC	Q
1.		Unknown	3.79	300.	1
2.	108203	Diisopropyl ether (DOT)	9.70	77.	
3.	156592	Ethene, 1,2-dichloro-(cis), (Z)- (	10.55	1300.	
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					

QUALIFIERS(Q);
(1)-THIS COMPOUND (OR SIMILAR SPECTRA) FOUND IN LAB BLANK.
(2)-INTERNAL OR SURROGATE STANDARD ADDED BY LABORATORY.
(3)-THIS COMPOUND ALREADY IDENTIFIED AND REPORTED AS TARGET COMPOUND.
(4)-PROBABLE BACKGROUND DUE TO SOLVENT OR CO2.
(5)-OTHER:

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883750168

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ANALYSIS REPORT FOR VOLATILE ORGANICS BY GC/MS

			DATA FILES	ANALYSIS DATE
CLIENT	: KILLAM	Initial	: >E0098	07/30/93
LAB SAMPLE #:	E320337	Dilution #1	:	
MATRIX	: WATER	Dilution #2	:	
METHOD	: EPA 624			

	COMPOUND	RESULT (ug/L)	MDL (ug/L)	Q
1)	ACROLEIN	ND	2.5	
2)	ACRYLONITRILE	ND	2.0	
3)	BENZENE	ND	0.84	
4)	BROMOFORM	ND	0.61	
5)	BROMODICHLOROMETHANE	ND	0.66	
6)	BROMOMETHANE	ND	1.0	
7)	CARBON TETRACHLORIDE	ND	0.75	
8)	CHLOROBENZENE	ND	1.4	
9)	CHLOROETHANE	ND	1.0	
10)	2-CHLOROETHYL VINYL ETHER	ND	0.39	
11)	CHLOROFORM	ND	0.68	
12)	CHLOROMETHANE	ND	1.1	
13)	cis-1,3-DICHLOROPROPENE	ND	0.93	
14)	DIBROMOCHLOROMETHANE	ND	0.63	
15)	1,2-DICHLOROBENZENE	ND	1.8	
16)	1,3-DICHLOROBENZENE	ND	2.0	
17)	1,4-DICHLOROBENZENE	ND	2.2	
18)	1,1-DICHLOROETHANE	ND	0.57	
19)	1,2-DICHLOROETHANE	ND	0.66	
20)	1,1-DICHLOROETHYLENE	ND	0.88	
21)	trans-1,2-DICHLOROETHYLENE	ND	0.94	
22)	trans-1,3-DICHLOROPROPENE	ND	0.70	
23)	1,2-DICHLOROPROPANE	ND	0.74	
24)	ETHYLBENZENE	ND	1.5	
25)	METHYLENE CHLORIDE	ND	0.84	
26)	1,1,2,2-TETRACHLOROETHANE	ND	0.56	
27)	TETRACHLOROETHYLENE	ND	1.5	
28)	TOLUENE	ND	1.2	
29)	1,1,1-TRICHLOROETHANE	ND	0.65	
30)	1,1,2-TRICHLOROETHANE	ND	0.86	
31)	TRICHLOROETHYLENE	ND	1.5	
32)	TRICHLOROFLUOROMETHANE	ND	0.90	
33)	VINYL CHLORIDE	ND	1.0	
34)	XYLENE (TOTAL)	ND	3.4	

ND = NOT DETECTED
MDL= METHOD DETECTION LIMIT

(1) - RESULTS REPORTED FROM DILUTION #1
(2) - RESULTS REPORTED FROM DILUTION #2

QUALIFIERS (Q)
J =INDICATES AN ESTIMATED VALUE BELOW MDL
B =INDICATES COMPOUND FOUND IN THE ASSOCIATED BLANK AS WELL AS IN SAMPLE
E =ESTIMATED VALUE; EXCEEDS INSTRUMENT CALIBRATION RANGE

CERTIFICATIONS: NJ (12129) • NY (10983) • PA (68-408) • MA (NJ141) • CT (PH-0585) • MD (167) • DE • VA (00004) • NC (346) • SC (94009) • TN (2968)

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: KILLAM

Lab Sample ID: E320337

Date Analyzed: 7/30/93 14:03

Lab File ID: >E0098

Matrix: WATER FOR VOA

Number TICs found: 1 CONCENTRATION UNITS: ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST CONC	Q
1.		Unknown	3.27	39.	1
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					

QUALIFIERS(Q);
(1)-THIS COMPOUND (OR SIMILAR SPECTRA) FOUND IN LAB BLANK.
(2)-INTERNAL OR SURROGATE STANDARD ADDED BY LABORATORY.
(3)-THIS COMPOUND ALREADY IDENTIFIED AND REPORTED AS TARGET COMPOUND.
(4)-PROBABLE BACKGROUND DUE TO SOLVENT OR CO2.
(5)-OTHER:

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ANALYSIS REPORT FOR VOLATILE ORGANICS BY GC/MS

			DATA FILES	ANALYSIS DATE
CLIENT	: KILLAM	Initial	: >E0099	07/30/93
LAB SAMPLE #	: E320338	Dilution #1	:	
MATRIX	: WATER	Dilution #2	:	
METHOD	: EPA 624			

	COMPOUND	RESULT (ug/L)	MDL (ug/L)	Q
1)	ACROLEIN	ND	2.5	
2)	ACRYLONITRILE	ND	2.0	
3)	BENZENE	ND	0.84	
4)	BROMOFORM	ND	0.61	
5)	BROMODICHLOROMETHANE	ND	0.66	
6)	BROMOMETHANE	ND	1.0	
7)	CARBON TETRACHLORIDE	ND	0.75	
8)	CHLOROBENZENE	ND	1.4	
9)	CHLOROETHANE	ND	1.0	
10)	2-CHLOROETHYL VINYL ETHER	ND	0.39	
11)	CHLOROFORM	ND	0.68	
12)	CHLOROMETHANE	ND	1.1	
13)	cis-1,3-DICHLOROPROPENE	ND	0.93	
14)	DIBROMOCHLOROMETHANE	ND	0.63	
15)	1,2-DICHLOROBENZENE	ND	1.8	
16)	1,3-DICHLOROBENZENE	ND	2.0	
17)	1,4-DICHLOROBENZENE	ND	2.2	
18)	1,1-DICHLOROETHANE	ND	0.57	
19)	1,2-DICHLOROETHANE	ND	0.66	
20)	1,1-DICHLOROETHYLENE	ND	0.88	
21)	trans-1,2-DICHLOROETHYLENE	ND	0.94	
22)	trans-1,3-DICHLOROPROPENE	ND	0.70	
23)	1,2-DICHLOROPROPANE	ND	0.74	
24)	ETHYLBENZENE	ND	1.5	
25)	METHYLENE CHLORIDE	ND	0.84	
26)	1,1,2,2-TETRACHLOROETHANE	ND	0.56	
27)	TETRACHLOROETHYLENE	ND	1.5	
28)	TOLUENE	ND	1.2	
29)	1,1,1-TRICHLOROETHANE	ND	0.65	
30)	1,1,2-TRICHLOROETHANE	ND	0.86	
31)	TRICHLOROETHYLENE	ND	1.5	
32)	TRICHLOROFLUOROMETHANE	ND	0.90	
33)	VINYL CHLORIDE	ND	1.0	
34)	XYLENE (TOTAL)	ND	3.4	

ND = NOT DETECTED
MDL= METHOD DETECTION LIMIT

(1) - RESULTS REPORTED FROM DILUTION #1
(2) - RESULTS REPORTED FROM DILUTION #2

QUALIFIERS (Q)
J =INDICATES AN ESTIMATED VALUE BELOW MDL
B =INDICATES COMPOUND FOUND IN THE ASSOCIATED BLANK AS WELL AS IN SAMPLE
E =ESTIMATED VALUE; EXCEEDS INSTRUMENT CALIBRATION RANGE

CERTIFICATIONS: NJ (12129) • NY (10983) • PA (68-408) • MA (NJ141) • CT (PH-0585) • MD (167) • DE • VA (00004) • NC (346) • SC (94009) • TN (2968)

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: KILLAM

Lab Sample ID: E320338

Date Analyzed: 7/30/93 14:46

Lab File ID: >E0099

Matrix: WATER FOR VOA

Number TICs found: 1 CONCENTRATION UNITS: ug/L

CAS NUMBER	COMPOUND NAME	RT	EST CONC	Q
1.	Unknown	3.30	22.	1
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				

QUALIFIERS(Q);
(1)-THIS COMPOUND (OR SIMILAR SPECTRA) FOUND IN LAB BLANK.
(2)-INTERNAL OR SURROGATE STANDARD ADDED BY LABORATORY.
(3)-THIS COMPOUND ALREADY IDENTIFIED AND REPORTED AS TARGET COMPOUND.
(4)-PROBABLE BACKGROUND DUE TO SOLVENT OR CO2.
(5)-OTHER:

FORM I VOA-TIC

Killam
Associates □ Consulting Engineers
Millbu NJ 07041-1008
Tel.: 201-379-3400
Fax: 201-912-2405

KILLAM - HEXCEL

Client Name: Hexcel Corp.
Work ID:
Project # and Type: 225300-0013 / ECRA
Project Manager: GARY K. WALKER

Collected by (print): DANIEL A. FLATIN
Signature: [signature]
Preserved by: Accutest
Before Sampling _____ After Sampling _____

Lab Work Order:

	Lab No.	Sample Number	Sample Location	Collected Date	Collected Time	Analyses: VOTS	Notes
E320	0320	93-0728-06	MW-6	7-28-93	1205	X	
E320	0321	93-0728-07	MW-7		1156	X	
E320	0322	93-0728-08	MW-8		1513	X	
E320	323	93-0728-09	MW-9		1456	X	
E320	324	93-0728-10	MW-10		1130	X	
E320	325	93-0728-11	MW-11		1137	X	
E320	326	93-0728-12	MW-12		1227	X	
E320	327	93-0728-13	MW-13		1222	X	
E320	328	93-0728-16	MW-16		1422	X	
E320	329	93-0728-24	MW-24		1518	X	
E320	330	93-0728-25	MW-25		1505	X	NAB
E320	331	93-0728-28	MW-28		1213	X	
E320	332	93-0728-CW10	CW-10		1150	X	
E320	333	93-0728-CW14	CW-14		1158	X	
E320	334	93-0728-RW6-2	RW-6-2		1526	X	

4012

Report Format: UST ECRA TIER IIb NJPDES DMR JM Other

Preservation Checked in Lab by:

Turnaround Time: STANDARD

Additional Comments DATA ON DISK

RED/T2

SAMPLES RECEIVED ON ICE AT ACCUTEST

ALL SAMPLES RECEIVED PRESERVED AS APPLICABLE

REFER TO HEXCEL FLD BK NO. 02, PP. 102-123 for SAMPLING DATA.

Samples Relinquished By:	Samples Received By:	Date/Time
[signature]	Robert Wahlberg	7/29/93 1010
Robert Wahlberg	[signature]	7/29/93 1120

0792

883750173

Killam
Associates □ Consulting Engineers
27 Bl[illegible] Street
Millbu[illegible], NJ 07041-1008
Tel.: 201-379-3400
Fax: 201-912-2405

Chain of Custody

KILLAM - HEXCEL

Client Name: HEXCEL CORP
Project # and Type: 225300-0013 / ECRA
Work ID:
Project Manager: GARY K. WALKER

Collected by (print): DANIEL A. FLATIN
Signature: Daniel A. Flatin
Preserved by: Accutest
Before Sampling ✓ After Sampling

Lab Work Order:

	Lab No.	Sample Number	Sample Location	Collected Date	Collected Time	Analyses: VOTIS												Notes
E320	335	93-0728-DUP1	Duplicate #1	7-28-93		X												
E320	336	93-0728-DUP2	Duplicate #2	7-28-93		X												NAB
E320	337	93-0728-FB	Hexcel	7-28-93	1120	X											4 vials	Field Blank
E320	338	93-0728-TB	Accutest	7-26-93	1145	X											2 vials	Trip Blank

4D12

Report Format: UST ECRA TIER IIb NJPDES DMR JM Other

Preservation Checked in Lab by:

Turnaround Time: STANDARD

Additional Comments DATA ON DISK

ALL SAMPLES RECEIVED PRESERVED AS APPLICABLE

REFER TO HEXCEL CORP FLD BK NO. 02, pp. 102-123 for SAMPLING DATA

Samples Relinquished By:	Samples Received By:	Date/Time
Daniel A. Flatin	Robert Walker	7/29/93 1010
Robert Walker	R. [illegible]	7/29/93 1120

883750174

ACCUTEST
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ANALYSIS REPORT FOR VOLATILE ORGANICS BY GC/MS

			DATA FILES	ANALYSIS DATE
CLIENT	: 07/30/93	Initial	: >E0097	07/30/93
LAB SAMPLE #	: MB-VE006	Dilution #1	:	
MATRIX	: WATER	Dilution #2	:	
METHOD	: EPA 624			

	COMPOUND	RESULT (ug/L)	MDL (ug/L)	Q
1)	ACROLEIN	ND	2.5	
2)	ACRYLONITRILE	ND	2.0	
3)	BENZENE	ND	0.84	
4)	BROMOFORM	ND	0.61	
5)	BROMODICHLOROMETHANE	ND	0.66	
6)	BROMOMETHANE	ND	1.0	
7)	CARBON TETRACHLORIDE	ND	0.75	
8)	CHLOROBENZENE	ND	1.4	
9)	CHLOROETHANE	ND	1.0	
10)	2-CHLOROETHYL VINYL ETHER	ND	0.39	
11)	CHLOROFORM	ND	0.68	
12)	CHLOROMETHANE	ND	1.1	
13)	cis-1,3-DICHLOROPROPENE	ND	0.93	
14)	DIBROMOCHLOROMETHANE	ND	0.63	
15)	1,2-DICHLOROBENZENE	ND	1.8	
16)	1,3-DICHLOROBENZENE	ND	2.0	
17)	1,4-DICHLOROBENZENE	ND	2.2	
18)	1,1-DICHLOROETHANE	ND	0.57	
19)	1,2-DICHLOROETHANE	ND	0.66	
20)	1,1-DICHLOROETHYLENE	ND	0.88	
21)	trans-1,2-DICHLOROETHYLENE	ND	0.94	
22)	trans-1,3-DICHLOROPROPENE	ND	0.70	
23)	1,2-DICHLOROPROPANE	ND	0.74	
24)	ETHYLBENZENE	ND	1.5	
25)	METHYLENE CHLORIDE	ND	0.84	
26)	1,1,2,2-TETRACHLOROETHANE	ND	0.56	
27)	TETRACHLOROETHYLENE	ND	1.5	
28)	TOLUENE	ND	1.2	
29)	1,1,1-TRICHLOROETHANE	ND	0.65	
30)	1,1,2-TRICHLOROETHANE	ND	0.86	
31)	TRICHLOROETHYLENE	ND	1.5	
32)	TRICHLOROFLUOROMETHANE	ND	0.90	
33)	VINYL CHLORIDE	ND	1.0	
34)	XYLENE (total)	ND	3.4	

ND = NOT DETECTED
MDL= METHOD DETECTION LIMIT

(1) - RESULTS REPORTED FROM DILUTION #1
(2) - RESULTS REPORTED FROM DILUTION #2

QUALIFIERS (Q)
J =INDICATES AN ESTIMATED VALUE BELOW MDL
B =INDICATES COMPOUND FOUND IN THE ASSOCIATED BLANK AS WELL AS IN SAMPLE
E =ESTIMATED VALUE; EXCEEDS INSTRUMENT CALIBRATION RANGE

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: 07/30/93

Lab Sample ID: MB-VE006

Date Analyzed: 7/30/93 12:48

Lab File ID: >E0097

Matrix: WATER FOR VOA

Number TICs found: 1 CONCENTRATION UNITS: ug/L

CAS NUMBER	COMPOUND NAME	RT	EST CONC	Q
1.	Unknown	3.21	49.	4
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				

QUALIFIERS(Q);
(1)-THIS COMPOUND (OR SIMILAR SPECTRA) FOUND IN LAB BLANK.
(2)-INTERNAL OR SURROGATE STANDARD ADDED BY LABORATORY.
(3)-THIS COMPOUND ALREADY IDENTIFIED AND REPORTED AS TARGET COMPOUND.
(4)-PROBABLE BACKGROUND DUE TO SOLVENT OR CO2.
(5)-OTHER:

FORM I VOA-TIC

883750176

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ANALYSIS REPORT FOR VOLATILE ORGANICS BY GC/MS

			DATA FILES	ANALYSIS DATE
CLIENT	: 07/30/93	Initial	: >G7304	07/30/93
LAB SAMPLE #	: MB-VG735	Dilution #1	:	
MATRIX	: WATER	Dilution #2	:	
METHOD	: EPA 624			

	COMPOUND	RESULT (ug/L)	MDL (ug/L)	Q
1)	ACROLEIN	ND	2.5	
2)	ACRYLONITRILE	ND	2.0	
3)	BENZENE	ND	0.84	
4)	BROMOFORM	ND	0.61	
5)	BROMODICHLOROMETHANE	ND	0.66	
6)	BROMOMETHANE	ND	1.0	
7)	CARBON TETRACHLORIDE	ND	0.75	
8)	CHLOROBENZENE	ND	1.4	
9)	CHLOROETHANE	ND	1.0	
10)	2-CHLOROETHYL VINYL ETHER	ND	0.39	
11)	CHLOROFORM	ND	0.68	
12)	CHLOROMETHANE	ND	1.1	
13)	cis-1,3-DICHLOROPROPENE	ND	0.93	
14)	DIBROMOCHLOROMETHANE	ND	0.63	
15)	1,2-DICHLOROBENZENE	ND	1.8	
16)	1,3-DICHLOROBENZENE	ND	2.0	
17)	1,4-DICHLOROBENZENE	ND	2.2	
18)	1,1-DICHLOROETHANE	ND	0.57	
19)	1,2-DICHLOROETHANE	ND	0.66	
20)	1,1-DICHLOROETHYLENE	ND	0.88	
21)	trans-1,2-DICHLOROETHYLENE	ND	0.94	
22)	trans-1,3-DICHLOROPROPENE	ND	0.70	
23)	1,2-DICHLOROPROPANE	ND	0.74	
24)	ETHYLBENZENE	ND	1.5	
25)	METHYLENE CHLORIDE	ND	0.84	
26)	1,1,2,2-TETRACHLOROETHANE	ND	0.56	
27)	TETRACHLOROETHYLENE	ND	1.5	
28)	TOLUENE	ND	1.2	
29)	1,1,1-TRICHLOROETHANE	ND	0.65	
30)	1,1,2-TRICHLOROETHANE	ND	0.86	
31)	TRICHLOROETHYLENE	ND	1.5	
32)	TRICHLOROFLUOROMETHANE	ND	0.90	
33)	VINYL CHLORIDE	ND	1.0	
34)	XYLENE (TOTAL)	ND	3.4	

ND = NOT DETECTED
MDL= METHOD DETECTION LIMIT

(1) - RESULTS REPORTED FROM DILUTION #1
(2) - RESULTS REPORTED FROM DILUTION #2

QUALIFIERS (Q)
J =INDICATES AN ESTIMATED VALUE BELOW MDL
B =INDICATES COMPOUND FOUND IN THE ASSOCIATED BLANK AS WELL AS IN SAMPLE
E =ESTIMATED VALUE; EXCEEDS INSTRUMENT CALIBRATION RANGE

CERTIFICATIONS: NJ (12129) • NY (10983) • PA (68-408) • MA (NJ141) • CT (PH-0585) • MD (167) • DE • VA (00004) • NC (346) • SC (94009) • TN (2968)

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: 07/30/93

Lab Sample ID: MB-VG735

Date Analyzed: 7/30/93 12:27

Lab File ID: >G7304

Matrix: WATER FOR VOA

Number TICs found: 2 CONCENTRATION UNITS: ug/L

CAS NUMBER	COMPOUND NAME	RT	EST CONC	Q
1.	Unknown	3.21	76.	4
2.	Unknown	4.17	14.	4
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				

QUALIFIERS(Q);
(1)-THIS COMPOUND (OR SIMILAR SPECTRA) FOUND IN LAB BLANK.
(2)-INTERNAL OR SURROGATE STANDARD ADDED BY LABORATORY.
(3)-THIS COMPOUND ALREADY IDENTIFIED AND REPORTED AS TARGET COMPOUND.
(4)-PROBABLE BACKGROUND DUE TO SOLVENT OR CO2.
(5)-OTHER:

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ANALYSIS REPORT FOR VOLATILE ORGANICS BY GC/MS

			DATA FILES	ANALYSIS DATE
CLIENT	: 08/02/93	Initial	: >G7332	08/02/93
LAB SAMPLE #	: MB-VG736	Dilution #1	:	
MATRIX	: WATER	Dilution #2	:	
METHOD	: EPA 624			

	COMPOUND	RESULT (ug/L)	MDL (ug/L)	Q
1)	ACROLEIN	ND	2.5	
2)	ACRYLONITRILE	ND	2.0	
3)	BENZENE	ND	0.84	
4)	BROMOFORM	ND	0.61	
5)	BROMODICHLOROMETHANE	ND	0.66	
6)	BROMOMETHANE	ND	1.0	
7)	CARBON TETRACHLORIDE	ND	0.75	
8)	CHLOROBENZENE	ND	1.4	
9)	CHLOROETHANE	ND	1.0	
10)	2-CHLOROETHYL VINYL ETHER	ND	0.39	
11)	CHLOROFORM	ND	0.68	
12)	CHLOROMETHANE	ND	1.1	
13)	cis-1,3-DICHLOROPROPENE	ND	0.93	
14)	DIBROMOCHLOROMETHANE	ND	0.63	
15)	1,2-DICHLOROBENZENE	ND	1.8	
16)	1,3-DICHLOROBENZENE	ND	2.0	
17)	1,4-DICHLOROBENZENE	ND	2.2	
18)	1,1-DICHLOROETHANE	ND	0.57	
19)	1,2-DICHLOROETHANE	ND	0.66	
20)	1,1-DICHLOROETHYLENE	ND	0.88	
21)	trans-1,2-DICHLOROETHYLENE	ND	0.94	
22)	trans-1,3-DICHLOROPROPENE	ND	0.70	
23)	1,2-DICHLOROPROPANE	ND	0.74	
24)	ETHYLBENZENE	ND	1.5	
25)	METHYLENE CHLORIDE	ND	0.84	
26)	1,1,2,2-TETRACHLOROETHANE	ND	0.56	
27)	TETRACHLOROETHYLENE	ND	1.5	
28)	TOLUENE	ND	1.2	
29)	1,1,1-TRICHLOROETHANE	ND	0.65	
30)	1,1,2-TRICHLOROETHANE	ND	0.86	
31)	TRICHLOROETHYLENE	ND	1.5	
32)	TRICHLOROFLUOROMETHANE	ND	0.90	
33)	VINYL CHLORIDE	ND	1.0	
34)	XYLENES (TOTAL)	ND	3.4	

ND = NOT DETECTED
MDL= METHOD DETECTION LIMIT

(1) - RESULTS REPORTED FROM DILUTION #1
(2) - RESULTS REPORTED FROM DILUTION #2

QUALIFIERS (Q)
J =INDICATES AN ESTIMATED VALUE BELOW MDL
B =INDICATES COMPOUND FOUND IN THE ASSOCIATED BLANK AS WELL AS IN SAMPLE
E =ESTIMATED VALUE; EXCEEDS INSTRUMENT CALIBRATION RANGE

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: 08/02/93

Lab Sample ID: MB-VG736

Date Analyzed: 8/02/93 13:01

Lab File ID: >G7332

Matrix: WATER FOR VOA

Number TICs found: 2 CONCENTRATION UNITS: ug/L

CAS NUMBER	COMPOUND NAME	RT	EST CONC	Q
1.	Unknown	3.18	100.	4
2. 75070	Acetaldehyde (DOT)(8CI9CI)	4.12	16.	4
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				

QUALIFIERS(Q);
(1)-THIS COMPOUND (OR SIMILAR SPECTRA) FOUND IN LAB BLANK.
(2)-INTERNAL OR SURROGATE STANDARD ADDED BY LABORATORY.
(3)-THIS COMPOUND ALREADY IDENTIFIED AND REPORTED AS TARGET COMPOUND.
(4)-PROBABLE BACKGROUND DUE TO SOLVENT OR CO2.
(5)-OTHER:

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ANALYSIS REPORT FOR VOLATILE ORGANICS BY GC/MS

			DATA FILES	ANALYSIS DATE
CLIENT	: 08/03/93	Initial	: >G7355	08/03/93
LAB SAMPLE #:	MB-VG737	Dilution #1	:	
MATRIX	: WATER	Dilution #2	:	
METHOD	: EPA 624			

	COMPOUND	RESULT (ug/L)	MDL (ug/L)	Q
1)	ACROLEIN	ND	2.5	
2)	ACRYLONITRILE	ND	2.0	
3)	BENZENE	ND	0.84	
4)	BROMOFORM	ND	0.61	
5)	BROMODICHLOROMETHANE	ND	0.66	
6)	BROMOMETHANE	ND	1.0	
7)	CARBON TETRACHLORIDE	ND	0.75	
8)	CHLOROBENZENE	ND	1.4	
9)	CHLOROETHANE	ND	1.0	
10)	2-CHLOROETHYL VINYL ETHER	ND	0.39	
11)	CHLOROFORM	ND	0.68	
12)	CHLOROMETHANE	ND	1.1	
13)	cis-1,3-DICHLOROPROPENE	ND	0.93	
14)	DIBROMOCHLOROMETHANE	ND	0.63	
15)	1,2-DICHLOROBENZENE	ND	1.8	
16)	1,3-DICHLOROBENZENE	ND	2.0	
17)	1,4-DICHLOROBENZENE	ND	2.2	
18)	1,1-DICHLOROETHANE	ND	0.57	
19)	1,2-DICHLOROETHANE	ND	0.66	
20)	1,1-DICHLOROETHYLENE	ND	0.88	
21)	trans-1,2-DICHLOROETHYLENE	ND	0.94	
22)	trans-1,3-DICHLOROPROPENE	ND	0.70	
23)	1,2-DICHLOROPROPANE	ND	0.74	
24)	ETHYLBENZENE	ND	1.5	
25)	METHYLENE CHLORIDE	ND	0.84	
26)	1,1,2,2-TETRACHLOROETHANE	ND	0.56	
27)	TETRACHLOROETHYLENE	ND	1.5	
28)	TOLUENE	ND	1.2	
29)	1,1,1-TRICHLOROETHANE	ND	0.65	
30)	1,1,2-TRICHLOROETHANE	ND	0.86	
31)	TRICHLOROETHYLENE	ND	1.5	
32)	TRICHLOROFLUOROMETHANE	ND	0.90	
33)	VINYL CHLORIDE	ND	1.0	
34)	XYLENE (TOTAL)	ND	3.4	

ND = NOT DETECTED
MDL= METHOD DETECTION LIMIT

(1) - RESULTS REPORTED FROM DILUTION #1
(2) - RESULTS REPORTED FROM DILUTION #2

QUALIFIERS (Q)
J =INDICATES AN ESTIMATED VALUE BELOW MDL
B =INDICATES COMPOUND FOUND IN THE ASSOCIATED BLANK AS WELL AS IN SAMPLE
E =ESTIMATED VALUE; EXCEEDS INSTRUMENT CALIBRATION RANGE

VOLA' E ORGANICS ANALYSIS DATA ET
TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: 08/03/93

Lab Sample ID: MB-VG737

Date Analyzed: 8/03/93 13:57

Lab File ID: >G7355

Matrix: WATER FOR VOA

Number TICs found: 2 CONCENTRATION UNITS: ug/L

CAS NUMBER	COMPOUND NAME	RT	EST CONC	Q
1.	Unknown	3.18	100.	4
2. 75070	Acetaldehyde (DOT)(8CI9CI)	4.12	11.	4
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				

QUALIFIERS(Q);
(1)-THIS COMPOUND (OR SIMILAR SPECTRA) FOUND IN LAB BLANK.
(2)-INTERNAL OR SURROGATE STANDARD ADDED BY LABORATORY.
(3)-THIS COMPOUND ALREADY IDENTIFIED AND REPORTED AS TARGET COMPOUND.
(4)-PROBABLE BACKGROUND DUE TO SOLVENT OR CO2.
(5)-OTHER:

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ANALYSIS REPORT FOR VOLATILE ORGANICS BY GC/MS

			DATA FILES	ANALYSIS DATE
CLIENT	: 08/04/93	Initial	: >G7375	08/04/93
LAB SAMPLE #:	MB-VG738	Dilution #1	:	
MATRIX	: WATER	Dilution #2	:	
METHOD	: EPA 624			

	COMPOUND	RESULT (ug/L)	MDL (ug/L)	Q
1)	ACROLEIN	ND	2.5	
2)	ACRYLONITRILE	ND	2.0	
3)	BENZENE	ND	0.84	
4)	BROMOFORM	ND	0.61	
5)	BROMODICHLOROMETHANE	ND	0.66	
6)	BROMOMETHANE	ND	1.0	
7)	CARBON TETRACHLORIDE	ND	0.75	
8)	CHLOROBENZENE	ND	1.4	
9)	CHLOROETHANE	ND	1.0	
10)	2-CHLOROETHYL VINYL ETHER	ND	0.39	
11)	CHLOROFORM	ND	0.68	
12)	CHLOROMETHANE	ND	1.1	
13)	cis-1,3-DICHLOROPROPENE	ND	0.93	
14)	DIBROMOCHLOROMETHANE	ND	0.63	
15)	1,2-DICHLOROBENZENE	ND	1.8	
16)	1,3-DICHLOROBENZENE	ND	2.0	
17)	1,4-DICHLOROBENZENE	ND	2.2	
18)	1,1-DICHLOROETHANE	ND	0.57	
19)	1,2-DICHLOROETHANE	ND	0.66	
20)	1,1-DICHLOROETHYLENE	ND	0.88	
21)	trans-1,2-DICHLOROETHYLENE	ND	0.94	
22)	trans-1,3-DICHLOROPROPENE	ND	0.70	
23)	1,2-DICHLOROPROPANE	ND	0.74	
24)	ETHYLBENZENE	ND	1.5	
25)	METHYLENE CHLORIDE	ND	0.84	
26)	1,1,2,2-TETRACHLOROETHANE	ND	0.56	
27)	TETRACHLOROETHYLENE	ND	1.5	
28)	TOLUENE	ND	1.2	
29)	1,1,1-TRICHLOROETHANE	ND	0.65	
30)	1,1,2-TRICHLOROETHANE	ND	0.86	
31)	TRICHLOROETHYLENE	ND	1.5	
32)	TRICHLOROFLUOROMETHANE	ND	0.90	
33)	VINYL CHLORIDE	ND	1.0	
34)	XYLENE (TOTAL)	ND	3.4	

ND = NOT DETECTED
MDL= METHOD DETECTION LIMIT

(1) - RESULTS REPORTED FROM DILUTION #1
(2) - RESULTS REPORTED FROM DILUTION #2

QUALIFIERS (Q)
J =INDICATES AN ESTIMATED VALUE BELOW MDL
B =INDICATES COMPOUND FOUND IN THE ASSOCIATED BLANK AS WELL AS IN SAMPLE
E =ESTIMATED VALUE; EXCEEDS INSTRUMENT CALIBRATION RANGE

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: 08/04/93

Lab Sample ID: MB-VG738

Date Analyzed: 8/04/93 14:20

Lab File ID: >G7375

Matrix: WATER FOR VOA

Number TICs found: 2 CONCENTRATION UNITS: ug/L

CAS NUMBER	COMPOUND NAME	RT	EST CONC	Q
1.	Unknown	3.26	48.	4
2. 75070	Acetaldehyde (DOT)(8CI9CI)	4.22	16.	4
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				

QUALIFIERS(Q);
(1)-THIS COMPOUND (OR SIMILAR SPECTRA) FOUND IN LAB BLANK.
(2)-INTERNAL OR SURROGATE STANDARD ADDED BY LABORATORY.
(3)-THIS COMPOUND ALREADY IDENTIFIED AND REPORTED AS TARGET COMPOUND.
(4)-PROBABLE BACKGROUND DUE TO SOLVENT OR CO2.
(5)-OTHER:

FORM I VOA-TIC

Killam

APPENDIX H

Analytical Laboratory Results for
Groundwater Sampling
July 27-28, 1993

Part III

Hexcel Corporation
Monthly Project Status Report
August 1993

883750185

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08/20/93

TECHNICAL REPORT FOR KILLAM ASSOCIATES

SAMPLES TAKEN AT:	HEXCEL, LODI, NJ
CLIENT PROJECT ID:	225300-0013
ACCUTEST JOB NUMBER:	934308
SAMPLES RECEIVED AT ACCUTEST ON:	07/28/93
NUMBER OF SAMPLES IN THIS REPORT:	15
TOTAL NUMBER OF PAGES IN REPORT:	361

VINCENT J. PUGLIESE
PRESIDENT

NOTE: THIS REPORT SHOULD ONLY BE REPRODUCED IN FULL

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KILLAM ASSOCIATES
27 BLEEKER STREET
MILLBURN, NJ 07041

DATE: 08/20/93
JOB No: 934308
PROJECT No: 225300-0013
SAMPLE RECEIVED: 07/28/93

ATTN: DEBBIE NARDACCI

SAMPLE SUMMARY

SAMPLE No	COLLECTED DATE	TIME	BY	POINT OF COLLECTION
E320247	07/27/93	13:20	DAF	WATER - 93-0727-CW3, CW-3 HEXCEL, LODI, NJ
E320247R	07/27/93	13:20	DF	WATER - 93-0727-CW3, CW-3 HEXCEL, LODI, NJ
E320248	07/27/93	13:05	DAF	WATER - 93-0727-CW5, CW-5 HEXCEL, LODI, NJ
E320248R	07/27/93	13:05	DF	WATER - 93-0727-CW5, CW-5 HEXCEL, LODI, NJ
E320249	07/27/93	16:27	DAF	WATER - 93-0727-CW9, CW-9 HEXCEL, LODI, NJ
E320249R	07/27/93	16:27	DF	WATER - 93-0727-CW9, CW-9 HEXCEL, LODI, NJ

VINCENT J. PUGLIESE
PRESIDENT

CERTIFICATIONS: NJ (12129) • NY (10983) • PA (68-408) • MA (NJ141) • CT (PH-0585) • MD (167) • DE • VA (00004) • NC (346) • SC (94009) • TN (2968)

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KILLAM ASSOCIATES
27 BLEEKER STREET
MILLBURN, NJ 07041

DATE: 08/20/93
JOB No: 934308
PROJECT No: 225300-0013
SAMPLE RECEIVED: 07/28/93

ATTN: DEBBIE NARDACCI

SAMPLE SUMMARY

SAMPLE No	COLLECTED DATE	TIME	BY	POINT OF COLLECTION
E320250	07/27/93	16:15	DAF	WATER - 93-0727-CW11, CW-11 HEXCEL, LODI, NJ
E320250R	07/27/93	16:15	DF	WATER - 93-0727-CW11, CW-11 HEXCEL, LODI, NJ
E320251	07/27/93	15:57	DAF	WATER - 93-0727-CW15, CW-15 HEXCEL, LODI, NJ
E320251R	07/27/93	15:57	DF	WATER - 93-0727-CW15, CW-15 HEXCEL, LODI, NJ
E320252	07/27/93	15:38	DAF	WATER - 93-0727-CW18, CW-19 HEXCEL, LODI, NJ
E320252R	07/27/93	15:38	DF	WATER - 93-0727-CW18, CW-19 HEXCEL, LODI, NJ

VINCENT J. PUGLIESE
PRESIDENT

CERTIFICATIONS: NJ (12129) • NY (10983) • PA (68-408) • MA (NJ141) • CT (PH-0585) • MD (167) • DE • VA (00004) • NC (346) • SC (94009) • TN (2968)

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KILLAM ASSOCIATES
27 BLEEKER STREET
MILLBURN, NJ 07041

DATE: 08/20/93
JOB No: 934308
PROJECT No: 225300-0013
SAMPLE RECEIVED: 07/28/93

ATTN: DEBBIE NARDACCI

SAMPLE SUMMARY

SAMPLE No	COLLECTED DATE	TIME	BY	POINT OF COLLECTION
E320253	07/27/93	15:23	DAF	WATER - 93-0727-CW21, CW-21 HEXCEL, LODI, NJ
E320253R	07/27/93	15:23	DF	WATER - 93-0727-CW21, CW-21 HEXCEL, LODI, NJ
E320254	07/27/93	12:45	DAF	WATER - 93-0727-FB, HEXCEL, FIELD BLANK HEXCEL, LODI, NJ

VINCENT J. PUGLIESE
PRESIDENT

CERTIFICATIONS: NJ (12129) • NY (10983) • PA (68-408) • MA (NJ141) • CT (PH-0585) • MD (167) • DE • VA (00004) • NC (346) • SC (94009) • TN (2968)

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ANALYSIS REPORT FOR VOLATILE ORGANICS BY GC/MS

			DATA FILES	ANALYSIS DATE
CLIENT	: KILLAM	Initial	: >J6925	07/31/93
LAB SAMPLE #	: E320247	Dilution #1	:	
MATRIX	: WATER	Dilution #2	:	
METHOD	: EPA 624			

	COMPOUND	RESULT (ug/L)	MDL (ug/L)	Q
1)	ACROLEIN	ND	250	
2)	ACRYLONITRILE	ND	200	
3)	BENZENE	ND	84	
4)	BROMOFORM	ND	61	
5)	BROMODICHLOROMETHANE	ND	66	
6)	BROMOMETHANE	ND	100	
7)	CARBON TETRACHLORIDE	ND	75	
8)	CHLOROBENZENE	2200	140	
9)	CHLOROETHANE	ND	100	
10)	2-CHLOROETHYL VINYL ETHER	ND	39	
11)	CHLOROFORM	ND	68	
12)	CHLOROMETHANE	ND	110	
13)	cis-1,3-DICHLOROPROPENE	ND	93	
14)	DIBROMOCHLOROMETHANE	ND	63	
15)	1,2-DICHLOROBENZENE	5300	180	
16)	1,3-DICHLOROBENZENE	110	200	J
17)	1,4-DICHLOROBENZENE	380	220	
18)	1,1-DICHLOROETHANE	460	57	
19)	1,2-DICHLOROETHANE	ND	66	
20)	1,1-DICHLOROETHYLENE	ND	88	
21)	trans-1,2-DICHLOROETHYLENE	ND	94	
22)	trans-1,3-DICHLOROPROPENE	ND	70	
23)	1,2-DICHLOROPROPANE	ND	74	
24)	ETHYLBENZENE	ND	150	
25)	METHYLENE CHLORIDE	5600	84	
26)	1,1,2,2-TETRACHLOROETHANE	ND	56	
27)	TETRACHLOROETHYLENE	2900	150	
28)	TOLUENE	510	120	
29)	1,1,1-TRICHLOROETHANE	1200	65	
30)	1,1,2-TRICHLOROETHANE	ND	86	
31)	TRICHLOROETHYLENE	1200	150	
32)	TRICHLOROFLUOROMETHANE	ND	90	
33)	VINYL CHLORIDE	ND	100	
34)	XYLENE (total)	690	340	

ND = NOT DETECTED
MDL= METHOD DETECTION LIMIT

(1) - RESULTS REPORTED FROM DILUTION #1
(2) - RESULTS REPORTED FROM DILUTION #2

QUALIFIERS (Q)
J =INDICATES AN ESTIMATED VALUE BELOW MDL
B =INDICATES COMPOUND FOUND IN THE ASSOCIATED BLANK AS WELL AS IN SAMPLE
E =ESTIMATED VALUE; EXCEEDS INSTRUMENT CALIBRATION RANGE

CERTIFICATIONS: NJ (12129) • NY (10983) • PA (68-408) • MA (NJ141) • CT (PH-0585) • MD (167) • DE • VA (00004) • NC (346) • SC (94009) • TN (2968)

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: KILLAM

Lab Sample ID: E320247 ,

Date Analyzed: 7/31/93 5:57

Lab File ID: >J6925

Matrix: WATER FOR VOA

Number TICs found: 5 CONCENTRATION UNITS: ug/L

CAS NUMBER	COMPOUND NAME	RT	EST CONC	Q
1.	Unknown	3.89	2800.	~~4~~ ME
2.	Unknown	5.21	1200.	~~4~~ ME
3. 156592	Ethene, 1,2-dichloro-, ~~(1E)~~ (cis) - (9CI)	11.78	80000.	
4. 622968	Benzene, 1-ethyl-4-methyl- (9CI)	25.83	400.	
5. 95636	Benzene, 1,2,4-trimethyl- (8CI9CI)	27.08	630.	
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				

QUALIFIERS(Q);
(1)-THIS COMPOUND (OR SIMILAR SPECTRA) FOUND IN LAB BLANK.
(2)-INTERNAL OR SURROGATE STANDARD ADDED BY LABORATORY.
(3)-THIS COMPOUND ALREADY IDENTIFIED AND REPORTED AS TARGET COMPOUND.
(4)-PROBABLE BACKGROUND DUE TO SOLVENT OR CO2.
(5)-OTHER:

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883750191

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ANALYSIS REPORT

SAMPLE No	COLLECTED DATE	TIME	BY	POINT OF COLLECTION
E320247	07/27/93	13:20	DAF	WATER - 93-0727-CW3, CW-3 HEXCEL, LODI, NJ

TEST DESCRIPTION	RESULT	MDL	UNITS	DATE	INIT
PCB'S					
AROCHLOR 1016	ND	0.39	UG/L	08/03/93	XIA
AROCHLOR 1221	ND	0.16	UG/L	08/03/93	XIA
AROCHLOR 1232	ND	0.37	UG/L	08/03/93	XIA
AROCHLOR 1242	22	0.75	UG/L	08/03/93	XIA
AROCHLOR 1248	ND	0.23	UG/L	08/03/93	XIA
AROCHLOR 1254	ND	0.27	UG/L	08/03/93	XIA
AROCHLOR 1260	ND	0.35	UG/L	08/03/93	XIA

ND = NOT DETECTED
UG/L = PPB MG/L = PPM
MDL = METHOD DETECTION LIMIT

CERTIFICATIONS: NJ (12129) • NY (10983) • PA (68-408) • MA (NJ141) • CT (PH-0585) • MD (167) • DE • VA (00004) • NC (346) • SC (94009) • TN (2968)

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ANALYSIS REPORT

SAMPLE No	COLLECTED DATE	TIME	BY	POINT OF COLLECTION
E320247R	07/27/93	13:20	DF	WATER - 93-0727-CW3, CW-3 HEXCEL, LODI, NJ

TEST DESCRIPTION	RESULT	MDL	UNITS	DATE	INIT
PCB'S					
AROCHLOR 1016	ND	0.21	UG/L	08/06/93	XIA
AROCHLOR 1221	ND	0.19	UG/L	08/06/93	XIA
AROCHLOR 1232	ND	0.26	UG/L	08/06/93	XIA
AROCHLOR 1242	ND	0.35	UG/L	08/06/93	XIA
AROCHLOR 1248	ND	0.27	UG/L	08/06/93	XIA
AROCHLOR 1254	ND	0.078	UG/L	08/06/93	XIA
AROCHLOR 1260	ND	0.089	UG/L	08/06/93	XIA

ND = NOT DETECTED
UG/L = PPB MG/L = PPM
MDL = METHOD DETECTION LIMIT

CERTIFICATIONS: NJ (12129) • NY (10983) • PA (68-408) • MA (NJ141) • CT (PH-0585) • MD (167) • DE • VA (00004) • NC (346) • SC (94009) • TN (2968)

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ANALYSIS REPORT FOR VOLATILE ORGANICS BY GC/MS

			DATA FILES	ANALYSIS DATE
CLIENT	: KILLAM	Initial	: >J6926	07/31/93
LAB SAMPLE #:	E320248	Dilution #1	: >J6959	08/03/93
MATRIX	: WATER	Dilution #2	:	
METHOD	: EPA 624			

	COMPOUND	RESULT (ug/L)	MDL (ug/L)	Q
1)	ACROLEIN	ND	1300	
2)	ACRYLONITRILE	ND	1000	
3)	BENZENE	ND	420	
4)	BROMOFORM	ND	310	
5)	BROMODICHLOROMETHANE	ND	330	
6)	BROMOMETHANE	ND	500	
7)	CARBON TETRACHLORIDE	ND	380	
8)	CHLOROBENZENE	3900	700	
9)	CHLOROETHANE	ND	500	
10)	2-CHLOROETHYL VINYL ETHER	ND	200	
11)	CHLOROFORM	ND	340	
12)	CHLOROMETHANE	ND	550	
13)	cis-1,3-DICHLOROPROPENE	ND	470	
14)	DIBROMOCHLOROMETHANE	ND	320	
15)	1,2-DICHLOROBENZENE	5600	900	
16)	1,3-DICHLOROBENZENE	ND	1000	
17)	1,4-DICHLOROBENZENE	740	1100	J
18)	1,1-DICHLOROETHANE	1200	290	
19)	1,2-DICHLOROETHANE	1500	330	
20)	1,1-DICHLOROETHYLENE	ND	440	
21)	trans-1,2-DICHLOROETHYLENE	ND	470	
22)	trans-1,3-DICHLOROPROPENE	ND	350	
23)	1,2-DICHLOROPROPANE	ND	370	
24)	ETHYLBENZENE	ND	750	
25)	METHYLENE CHLORIDE	500000(1)	1700	
26)	1,1,2,2-TETRACHLOROETHANE	ND	280	
27)	TETRACHLOROETHYLENE	39000	750	
28)	TOLUENE	7100	600	
29)	1,1,1-TRICHLOROETHANE	9500	330	
30)	1,1,2-TRICHLOROETHANE	ND	430	
31)	TRICHLOROETHYLENE	81000	750	
32)	TRICHLOROFLUOROMETHANE	ND	450	
33)	VINYL CHLORIDE	ND	500	
34)	XYLENE (total)	2500	1700	

ND = NOT DETECTED
MDL= METHOD DETECTION LIMIT

(1) - RESULTS REPORTED FROM DILUTION #1
(2) - RESULTS REPORTED FROM DILUTION #2

QUALIFIERS (Q)
J =INDICATES AN ESTIMATED VALUE BELOW MDL
B =INDICATES COMPOUND FOUND IN THE ASSOCIATED BLANK AS WELL AS IN SAMPLE
E =ESTIMATED VALUE; EXCEEDS INSTRUMENT CALIBRATION RANGE

CERTIFICATIONS: NJ (12129) • NY (10983) • PA (68-408) • MA (NJ141) • CT (PH-0585) • MD (167) • DE • VA (00004) • NC (346) • SC (94009) • TN (2968)

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: KILLAM

Lab Sample ID: E320248

Date Analyzed: 7/31/93 6:42

Lab File ID: >J6926

Matrix: WATER FOR VOA

Number TICs found: 15 CONCENTRATION UNITS: ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST CONC	Q
1.		Unknown	3.89	16000.	1
2.		Unknown	5.21	6400.	1
3.	75092	Methane, dichloro- (8CI9CI)	9.67	11000.	3
4.	156592	Ethene, 1,2-dichloro-,(cis)-(9CI)	11.78	160000.	
5.	15869940	Octane, 3,6-dimethyl- (8CI9CI)	23.87	3500.	
6.	1678928	Cyclohexane, propyl- (8CI9CI)	24.12	2700.	
7.	50871039	1-Decene, 3,4-dimethyl- (9CI)	25.21	3500.	
8.	620144	Benzene, 1-ethyl-3-methyl- (9CI)	25.82	6100.	
9.	14296812	Cyclohexane, 1,2,4-tris(methylene)	26.03	3000.	
10.	124185	Decane (8CI9CI)	26.17	16000.	
11.	98828	Benzene, (1-methylethyl)- (9CI)	26.60	2700.	
12.	620144	Benzene, 1-ethyl-3-methyl- (9CI)	27.07	12000.	
13.		Unknown	27.60	2200.	
14.	7058017	Cyclohexane, (1-methylpropyl)- (9C	27.75	3000.	
15.	17302328	Nonane, 3,7-dimethyl- (8CI9CI)	29.55	3200.	

QUALIFIERS(Q);
(1)-THIS COMPOUND (OR SIMILAR SPECTRA) FOUND IN LAB BLANK.
(2)-INTERNAL OR SURROGATE STANDARD ADDED BY LABORATORY.
(3)-THIS COMPOUND ALREADY IDENTIFIED AND REPORTED AS TARGET COMPOUND.
(4)-PROBABLE BACKGROUND DUE TO SOLVENT OR CO2.
(5)-OTHER:

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ANALYSIS REPORT

SAMPLE No	COLLECTED DATE	TIME	BY	POINT OF COLLECTION
E320248	07/27/93	13:05	DAF	WATER - 93-0727-CW5, CW-5 HEXCEL, LODI, NJ

TEST DESCRIPTION	RESULT	MDL	UNITS	DATE	INIT
PCB'S					
AROCHLOR 1016	ND	0.39	UG/L	08/03/93	XIA
AROCHLOR 1221	ND	0.16	UG/L	08/03/93	XIA
AROCHLOR 1232	ND	0.37	UG/L	08/03/93	XIA
AROCHLOR 1242[1]	180	15	UG/L	08/03/93	XIA
AROCHLOR 1248	ND	0.24	UG/L	08/03/93	XIA
AROCHLOR 1254	ND	0.27	UG/L	08/03/93	XIA
AROCHLOR 1260	ND	0.35	UG/L	08/03/93	XIA

[1] MDL ELEVATED DUE TO DILUTION FACTOR.

ND = NOT DETECTED
UG/L = PPB MG/L = PPM
MDL = METHOD DETECTION LIMIT

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ANALYSIS REPORT

SAMPLE No	COLLECTED DATE	TIME	BY	POINT OF COLLECTION
E320248R	07/27/93	13:05	DF	WATER - 93-0727-CW5, CW-5 HEXCEL, LODI, NJ

TEST DESCRIPTION	RESULT	MDL	UNITS	DATE	INIT
PCB'S					
AROCHLOR 1016	ND	0.22	UG/L	08/06/93	XIA
AROCHLOR 1221	ND	0.19	UG/L	08/06/93	XIA
AROCHLOR 1232	ND	0.27	UG/L	08/06/93	XIA
AROCHLOR 1242[1]	100	3.6	UG/L	08/06/93	XIA
AROCHLOR 1248	ND	0.27	UG/L	08/06/93	XIA
AROCHLOR 1254	ND	0.079	UG/L	08/06/93	XIA
AROCHLOR 1260	ND	0.091	UG/L	08/06/93	XIA

[1] MDL ELEVATED DUE TO DILUTION FACTOR.

ND = NOT DETECTED
UG/L = PPB MG/L = PPM
MDL = METHOD DETECTION LIMIT

CERTIFICATIONS: NJ (12129) • NY (10983) • PA (68-408) • MA (NJ141) • CT (PH-0585) • MD (167) • DE • VA (00004) • NC (346) • SC (94009) • TN (2968)

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ANALYSIS REPORT FOR VOLATILE ORGANICS BY GC/MS

		DATA FILES	ANALYSIS DATE
CLIENT : KILLAM	Initial :	>J6921	07/31/93
LAB SAMPLE #: E320249	Dilution #1 :		
MATRIX : WATER	Dilution #2 :		
METHOD : EPA 624			

	COMPOUND	RESULT (ug/L)	MDL (ug/L)	Q
1)	ACROLEIN	ND	130	
2)	ACRYLONITRILE	ND	100	
3)	BENZENE	1600	42	
4)	BROMOFORM	ND	31	
5)	BROMODICHLOROMETHANE	ND	33	
6)	BROMOMETHANE	ND	50	
7)	CARBON TETRACHLORIDE	ND	38	
8)	CHLOROBENZENE	5200	70	
9)	CHLOROETHANE	ND	50	
10)	2-CHLOROETHYL VINYL ETHER	ND	20	
11)	CHLOROFORM	ND	34	
12)	CHLOROMETHANE	ND	55	
13)	cis-1,3-DICHLOROPROPENE	ND	47	
14)	DIBROMOCHLOROMETHANE	ND	32	
15)	1,2-DICHLOROBENZENE	57	90	J
16)	1,3-DICHLOROBENZENE	ND	100	
17)	1,4-DICHLOROBENZENE	ND	110	
18)	1,1-DICHLOROETHANE	ND	29	
19)	1,2-DICHLOROETHANE	ND	33	
20)	1,1-DICHLOROETHYLENE	ND	44	
21)	trans-1,2-DICHLOROETHYLENE	ND	47	
22)	trans-1,3-DICHLOROPROPENE	ND	35	
23)	1,2-DICHLOROPROPANE	ND	37	
24)	ETHYLBENZENE	ND	75	
25)	METHYLENE CHLORIDE	ND	42	
26)	1,1,2,2-TETRACHLOROETHANE	ND	28	
27)	TETRACHLOROETHYLENE	ND	75	
28)	TOLUENE	ND	60	
29)	1,1,1-TRICHLOROETHANE	ND	33	
30)	1,1,2-TRICHLOROETHANE	ND	43	
31)	TRICHLOROETHYLENE	ND	75	
32)	TRICHLOROFLUOROMETHANE	ND	45	
33)	VINYL CHLORIDE	ND	50	
34)	XYLENE (total)	ND	170	

ND = NOT DETECTED
MDL= METHOD DETECTION LIMIT

(1) - RESULTS REPORTED FROM DILUTION #1
(2) - RESULTS REPORTED FROM DILUTION #2

QUALIFIERS (Q)
J =INDICATES AN ESTIMATED VALUE BELOW MDL
B =INDICATES COMPOUND FOUND IN THE ASSOCIATED BLANK AS WELL AS IN SAMPLE
E =ESTIMATED VALUE; EXCEEDS INSTRUMENT CALIBRATION RANGE

CERTIFICATIONS: NJ (12129) • NY (10983) • PA (68-408) • MA (NJ141) • CT (PH-0585) • MD (167) • DE • VA (00004) • NC (346) • SC (94009) • TN (2968)

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: KILLAM

Lab Sample ID: E320249 ,

Date Analyzed: 7/31/93 2:57

Lab File ID: >J6921

Matrix: WATER FOR VOA

Number TICs found: 4 CONCENTRATION UNITS: ug/L

CAS NUMBER	COMPOUND NAME	RT	EST CONC	Q	
1.	Unknown	3.88	3200.	#1	ME
2.	Unknown	5.21	1100.	#1	ME
3. 156592	Ethene, 1,2-dichloro-, ~~(E)-~~ (cis) (9CI)	11.76	1200.		
4.	Unknown	12.44	290.		
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					

QUALIFIERS(Q);
(1)-THIS COMPOUND (OR SIMILAR SPECTRA) FOUND IN LAB BLANK.
(2)-INTERNAL OR SURROGATE STANDARD ADDED BY LABORATORY.
(3)-THIS COMPOUND ALREADY IDENTIFIED AND REPORTED AS TARGET COMPOUND.
(4)-PROBABLE BACKGROUND DUE TO SOLVENT OR CO2.
(5)-OTHER:

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ANALYSIS REPORT

SAMPLE No	COLLECTED DATE	TIME	BY	POINT OF COLLECTION
E320249	07/27/93	16:27	DAF	WATER - 93-0727-CW9, CW-9 HEXCEL, LODI, NJ

TEST DESCRIPTION	RESULT	MDL	UNITS	DATE	INIT
PCB'S					
AROCHLOR 1016	ND	0.40	UG/L	08/03/93	XIA
AROCHLOR 1221	ND	0.17	UG/L	08/03/93	XIA
AROCHLOR 1232	ND	0.38	UG/L	08/03/93	XIA
AROCHLOR 1242	ND	0.77	UG/L	08/03/93	XIA
AROCHLOR 1248	ND	0.24	UG/L	08/03/93	XIA
AROCHLOR 1254	ND	0.27	UG/L	08/03/93	XIA
AROCHLOR 1260	ND	0.35	UG/L	08/03/93	XIA

ND = NOT DETECTED
UG/L = PPB MG/L = PPM
MDL = METHOD DETECTION LIMIT

CERTIFICATIONS: NJ (12129) • NY (10983) • PA (68-408) • MA (NJ141) • CT (PH-0585) • MD (167) • DE • VA (00004) • NC (346) • SC (94009) • TN (2968)

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ANALYSIS REPORT

SAMPLE No	COLLECTED DATE	TIME	BY	POINT OF COLLECTION
E320249R	07/27/93	16:27	DF	WATER - 93-0727-CW9, CW-9 HEXCEL, LODI, NJ

TEST DESCRIPTION	RESULT	MDL	UNITS	DATE	INIT
PCB'S					
AROCHLOR 1016	ND	0.22	UG/L	08/06/93	XIA
AROCHLOR 1221	ND	0.20	UG/L	08/06/93	XIA
AROCHLOR 1232	ND	0.27	UG/L	08/06/93	XIA
AROCHLOR 1242	ND	0.36	UG/L	08/06/93	XIA
AROCHLOR 1248	ND	0.28	UG/L	08/06/93	XIA
AROCHLOR 1254	ND	0.081	UG/L	08/06/93	XIA
AROCHLOR 1260	ND	0.093	UG/L	08/06/93	XIA

ND = NOT DETECTED
UG/L = PPB MG/L = PPM
MDL = METHOD DETECTION LIMIT

CERTIFICATIONS: NJ (12129) • NY (10983) • PA (68-408) • MA (NJ141) • CT (PH-0585) • MD (167) • DE • VA (00004) • NC (346) • SC (94009) • TN (2968)

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ANALYSIS REPORT FOR VOLATILE ORGANICS BY GC/MS

		DATA FILES	ANALYSIS DATE
CLIENT : KILLAM	Initial :	>J6922	07/31/93
LAB SAMPLE #: E320250	Dilution #1 :	>J6958	08/03/93
MATRIX : WATER	Dilution #2 :		
METHOD : EPA 624			

	COMPOUND	RESULT (ug/L)	MDL (ug/L)	Q
1)	ACROLEIN	ND	250	
2)	ACRYLONITRILE	ND	200	
3)	BENZENE	960	84	
4)	BROMOFORM	ND	61	
5)	BROMODICHLOROMETHANE	ND	66	
6)	BROMOMETHANE	ND	100	
7)	CARBON TETRACHLORIDE	ND	75	
8)	CHLOROBENZENE	52000(1)	700	
9)	CHLOROETHANE	ND	100	
10)	2-CHLOROETHYL VINYL ETHER	ND	39	
11)	CHLOROFORM	ND	68	
12)	CHLOROMETHANE	ND	110	
13)	cis-1,3-DICHLOROPROPENE	ND	93	
14)	DIBROMOCHLOROMETHANE	ND	63	
15)	1,2-DICHLOROBENZENE	570	180	
16)	1,3-DICHLOROBENZENE	ND	200	
17)	1,4-DICHLOROBENZENE	120	220	J
18)	1,1-DICHLOROETHANE	230	57	
19)	1,2-DICHLOROETHANE	ND	66	
20)	1,1-DICHLOROETHYLENE	ND	88	
21)	trans-1,2-DICHLOROETHYLENE	ND	94	
22)	trans-1,3-DICHLOROPROPENE	ND	70	
23)	1,2-DICHLOROPROPANE	ND	74	
24)	ETHYLBENZENE	610	150	
25)	METHYLENE CHLORIDE	ND	84	
26)	1,1,2,2-TETRACHLOROETHANE	ND	56	
27)	TETRACHLOROETHYLENE	ND	150	
28)	TOLUENE	6500	120	
29)	1,1,1-TRICHLOROETHANE	ND	65	
30)	1,1,2-TRICHLOROETHANE	ND	86	
31)	TRICHLOROETHYLENE	ND	150	
32)	TRICHLOROFLUOROMETHANE	ND	90	
33)	VINYL CHLORIDE	5500	100	
34)	XYLENE (total)	200	340	J

ND = NOT DETECTED
MDL= METHOD DETECTION LIMIT

(1) - RESULTS REPORTED FROM DILUTION #1
(2) - RESULTS REPORTED FROM DILUTION #2

QUALIFIERS (Q)
J =INDICATES AN ESTIMATED VALUE BELOW MDL
B =INDICATES COMPOUND FOUND IN THE ASSOCIATED BLANK AS WELL AS IN SAMPLE
E =ESTIMATED VALUE; EXCEEDS INSTRUMENT CALIBRATION RANGE

CERTIFICATIONS: NJ (12129) • NY (10983) • PA (68-408) • MA (NJ141) • CT (PH-0585) • MD (167) • DE • VA (00004) • NC (346) • SC (94009) • TN (2968)

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: KILLAM

Lab Sample ID: E320250 ,

Date Analyzed: 7/31/93 3:42

Lab File ID: >J6922

Matrix: WATER FOR VOA

Number TICs found: 2 CONCENTRATION UNITS: ug/L

CAS NUMBER	COMPOUND NAME	RT	EST CONC	Q
1.	Unknown	3.90	6100.	1
2. 156592	Ethene, 1,2-dichloro-, (~~Z~~ cis)- (9CI)	11.77	6900.	
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				

QUALIFIERS(Q);
(1)-THIS COMPOUND (OR SIMILAR SPECTRA) FOUND IN LAB BLANK.
(2)-INTERNAL OR SURROGATE STANDARD ADDED BY LABORATORY.
(3)-THIS COMPOUND ALREADY IDENTIFIED AND REPORTED AS TARGET COMPOUND.
(4)-PROBABLE BACKGROUND DUE TO SOLVENT OR CO2.
(5)-OTHER:

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ANALYSIS REPORT

SAMPLE No	COLLECTED DATE	TIME	BY	POINT OF COLLECTION
E320250	07/27/93	16:15	DAF	WATER - 93-0727-CW11, CW-11 HEXCEL, LODI, NJ

TEST DESCRIPTION	RESULT	MDL	UNITS	DATE	INIT
PCB'S					
AROCHLOR 1016	ND	0.39	UG/L	08/03/93	XIA
AROCHLOR 1221	ND	0.16	UG/L	08/03/93	XIA
AROCHLOR 1232	ND	0.37	UG/L	08/03/93	XIA
AROCHLOR 1242	11	0.76	UG/L	08/03/93	XIA
AROCHLOR 1248	ND	0.24	UG/L	08/03/93	XIA
AROCHLOR 1254	ND	0.27	UG/L	08/03/93	XIA
AROCHLOR 1260	ND	0.35	UG/L	08/03/93	XIA

ND = NOT DETECTED
UG/L = PPB MG/L = PPM
MDL = METHOD DETECTION LIMIT

CERTIFICATIONS: NJ (12129) • NY (10983) • PA (68-408) • MA (NJ141) • CT (PH-0585) • MD (167) • DE • VA (00004) • NC (346) • SC (94009) • TN (2968)

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ANALYSIS REPORT

SAMPLE No	COLLECTED DATE	TIME	BY	POINT OF COLLECTION
E320250R	07/27/93	16:15	DF	WATER - 93-0727-CW11, CW-11 HEXCEL, LODI, NJ

TEST DESCRIPTION	RESULT	MDL	UNITS	DATE	INIT
PCB'S					
AROCHLOR 1016	ND	0.22	UG/L	08/09/93	XIA
AROCHLOR 1221	ND	0.19	UG/L	08/09/93	XIA
AROCHLOR 1232	ND	0.27	UG/L	08/09/93	XIA
AROCHLOR 1242	ND	0.36	UG/L	08/09/93	XIA
AROCHLOR 1248	ND	0.27	UG/L	08/09/93	XIA
AROCHLOR 1254	ND	0.079	UG/L	08/09/93	XIA
AROCHLOR 1260	ND	0.091	UG/L	08/09/93	XIA

ND = NOT DETECTED
UG/L = PPB MG/L = PPM
MDL = METHOD DETECTION LIMIT

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ANALYSIS REPORT FOR VOLATILE ORGANICS BY GC/MS

			DATA FILES	ANALYSIS DATE
CLIENT	: KILLAM	Initial	: >J6923	07/31/93
LAB SAMPLE #	: E320251	Dilution #1	:	
MATRIX	: WATER	Dilution #2	:	
METHOD	: EPA 624			

	COMPOUND	RESULT (ug/L)	MDL (ug/L)	Q
1)	ACROLEIN	ND	500	
2)	ACRYLONITRILE	ND	400	
3)	BENZENE	340	170	
4)	BROMOFORM	ND	120	
5)	BROMODICHLOROMETHANE	ND	130	
6)	BROMOMETHANE	ND	200	
7)	CARBON TETRACHLORIDE	ND	150	
8)	CHLOROBENZENE	76000	280	
9)	CHLOROETHANE	ND	200	
10)	2-CHLOROETHYL VINYL ETHER	ND	78	
11)	CHLOROFORM	ND	140	
12)	CHLOROMETHANE	ND	220	
13)	cis-1,3-DICHLOROPROPENE	ND	190	
14)	DIBROMOCHLOROMETHANE	ND	130	
15)	1,2-DICHLOROBENZENE	4600	360	
16)	1,3-DICHLOROBENZENE	ND	400	
17)	1,4-DICHLOROBENZENE	310	440	J
18)	1,1-DICHLOROETHANE	330	110	
19)	1,2-DICHLOROETHANE	ND	130	
20)	1,1-DICHLOROETHYLENE	ND	180	
21)	trans-1,2-DICHLOROETHYLENE	ND	190	
22)	trans-1,3-DICHLOROPROPENE	ND	140	
23)	1,2-DICHLOROPROPANE	ND	150	
24)	ETHYLBENZENE	1400	300	
25)	METHYLENE CHLORIDE	ND	170	
26)	1,1,2,2-TETRACHLOROETHANE	ND	110	
27)	TETRACHLOROETHYLENE	11000	300	
28)	TOLUENE	8100	240	
29)	1,1,1-TRICHLOROETHANE	290	130	
30)	1,1,2-TRICHLOROETHANE	ND	170	
31)	TRICHLOROETHYLENE	3100	300	
32)	TRICHLOROFLUOROMETHANE	ND	180	
33)	VINYL CHLORIDE	ND	200	
34)	XYLENE (total)	ND	680	

ND = NOT DETECTED
MDL= METHOD DETECTION LIMIT

(1) - RESULTS REPORTED FROM DILUTION #1
(2) - RESULTS REPORTED FROM DILUTION #2

QUALIFIERS (Q)
J =INDICATES AN ESTIMATED VALUE BELOW MDL
B =INDICATES COMPOUND FOUND IN THE ASSOCIATED BLANK AS WELL AS IN SAMPLE
E =ESTIMATED VALUE; EXCEEDS INSTRUMENT CALIBRATION RANGE

CERTIFICATIONS: NJ (12129) • NY (10983) • PA (68-408) • MA (NJ141) • CT (PH-0585) • MD (167) • DE • VA (00004) • NC (346) • SC (94009) • TN (2968)

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: KILLAM

Lab Sample ID: E320251 ,

Date Analyzed: 7/31/93 4:28

Lab File ID: >J6923

Matrix: WATER FOR VOA

Number TICs found: 3 CONCENTRATION UNITS: ug/L

CAS NUMBER	COMPOUND NAME	RT	EST CONC	Q
1.	Unknown	3.88	11000.	#1 ME
2.	Unknown	5.20	4900.	#1 ME
3. 156592	Ethene, 1,2-dichloro-, ~~(Z)-~~ (cis) (9CI)	11.77	22000.	
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				

QUALIFIERS(Q);
(1)-THIS COMPOUND (OR SIMILAR SPECTRA) FOUND IN LAB BLANK.
(2)-INTERNAL OR SURROGATE STANDARD ADDED BY LABORATORY.
(3)-THIS COMPOUND ALREADY IDENTIFIED AND REPORTED AS TARGET COMPOUND.
(4)-PROBABLE BACKGROUND DUE TO SOLVENT OR CO2.
(5)-OTHER:

FORM I VOA-TIC

AF

MDL 1

883750207

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ANALYSIS REPORT FOR VOLATILE ORGANICS BY GC/MS

			DATA FILES	ANALYSIS DATE
CLIENT	: KILLAM	Initial	: >J6920	07/31/93
LAB SAMPLE #	: E320252	Dilution #1	: >G7486	08/10/93
MATRIX	: WATER	Dilution #2	:	
METHOD	: EPA 624			

	COMPOUND	RESULT (ug/L)	MDL (ug/L)	Q
1)	ACROLEIN	ND	13	
2)	ACRYLONITRILE	ND	10	
3)	BENZENE	1400	4.2	
4)	BROMOFORM	ND	3.1	
5)	BROMODICHLOROMETHANE	ND	3.3	
6)	BROMOMETHANE	ND	5.0	
7)	CARBON TETRACHLORIDE	ND	3.8	
8)	CHLOROBENZENE	16000(1)	140	
9)	CHLOROETHANE	ND	5.0	
10)	2-CHLOROETHYL VINYL ETHER	ND	2.0	
11)	CHLOROFORM	ND	3.4	
12)	CHLOROMETHANE	ND	5.5	
13)	cis-1,3-DICHLOROPROPENE	ND	4.6	
14)	DIBROMOCHLOROMETHANE	ND	3.2	
15)	1,2-DICHLOROBENZENE	190	9.0	
16)	1,3-DICHLOROBENZENE	35	10	
17)	1,4-DICHLOROBENZENE	170	11	
18)	1,1-DICHLOROETHANE	10	2.9	
19)	1,2-DICHLOROETHANE	ND	3.3	
20)	1,1-DICHLOROETHYLENE	ND	4.4	
21)	trans-1,2-DICHLOROETHYLENE	ND	4.7	
22)	trans-1,3-DICHLOROPROPENE	ND	3.5	
23)	1,2-DICHLOROPROPANE	ND	3.7	
24)	ETHYLBENZENE	10	7.5	
25)	METHYLENE CHLORIDE	ND	4.2	
26)	1,1,2,2-TETRACHLOROETHANE	ND	2.8	
27)	TETRACHLOROETHYLENE	ND	7.5	
28)	TOLUENE	210	6.0	
29)	1,1,1-TRICHLOROETHANE	ND	3.3	
30)	1,1,2-TRICHLOROETHANE	ND	4.3	
31)	TRICHLOROETHYLENE	ND	7.5	
32)	TRICHLOROFLUOROMETHANE	ND	4.5	
33)	VINYL CHLORIDE	ND	5.0	
34)	XYLENE (total)	14	17	J

ND = NOT DETECTED
MDL= METHOD DETECTION LIMIT

(1) - RESULTS REPORTED FROM DILUTION #1
(2) - RESULTS REPORTED FROM DILUTION #2

QUALIFIERS (Q)
J =INDICATES AN ESTIMATED VALUE BELOW MDL
B =INDICATES COMPOUND FOUND IN THE ASSOCIATED BLANK AS WELL AS IN SAMPLE
E =ESTIMATED VALUE; EXCEEDS INSTRUMENT CALIBRATION RANGE

CERTIFICATIONS: NJ (12129) • NY (10983) • PA (68-408) • MA (NJ141) • CT (PH-0585) • MD (167) • DE • VA (00004) • NC (346) • SC (94009) • TN (2968)

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: KILLAM

Lab Sample ID: E320252 ,

Date Analyzed: 7/31/93 2:12

Lab File ID: >J6920

Matrix: WATER FOR VOA

Number TICs found: 4 CONCENTRATION UNITS: ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST CONC	Q
1.		Unknown	3.85	600.	
2.		Unknown	5.17	120.	
3.	108203	Diisopropyl ether (DOT)	10.73	100.	
4.	156605	Ethene, 1,2-dichloro-, (E)- (9CI)	11.76	260.	
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					

QUALIFIERS(Q);
(1)-THIS COMPOUND (OR SIMILAR SPECTRA) FOUND IN LAB BLANK.
(2)-INTERNAL OR SURROGATE STANDARD ADDED BY LABORATORY.
(3)-THIS COMPOUND ALREADY IDENTIFIED AND REPORTED AS TARGET COMPOUND.
(4)-PROBABLE BACKGROUND DUE TO SOLVENT OR CO2.
(5)-OTHER:

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ANALYSIS REPORT

SAMPLE No	COLLECTED DATE	TIME	BY	POINT OF COLLECTION
E320252	07/27/93	15:38	DAF	WATER - 93-0727-CW18, CW-19 HEXCEL, LODI, NJ

TEST DESCRIPTION	RESULT	MDL	UNITS	DATE	INIT
PCB'S					
AROCHLOR 1016	ND	0.39	UG/L	08/03/93	XIA
AROCHLOR 1221	ND	0.16	UG/L	08/03/93	XIA
AROCHLOR 1232	ND	0.37	UG/L	08/03/93	XIA
AROCHLOR 1242	1.9	0.75	UG/L	08/03/93	XIA
AROCHLOR 1248	ND	0.23	UG/L	08/03/93	XIA
AROCHLOR 1254	ND	0.27	UG/L	08/03/93	XIA
AROCHLOR 1260	ND	0.35	UG/L	08/03/93	XIA

ND = NOT DETECTED
UG/L = PPB MG/L = PPM
MDL = METHOD DETECTION LIMIT

CERTIFICATIONS: NJ (12129) • NY (10983) • PA (68-408) • MA (NJ141) • CT (PH-0585) • MD (167) • DE • VA (00004) • NC (346) • SC (94009) • TN (2968)

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ANALYSIS REPORT

SAMPLE No	COLLECTED DATE	TIME	BY	POINT OF COLLECTION
E320252R	07/27/93	15:38	DF	WATER - 93-0727-CW18, CW-19 HEXCEL, LODI, NJ

TEST DESCRIPTION	RESULT	MDL	UNITS	DATE	INIT
PCB'S					
AROCHLOR 1016	ND	0.22	UG/L	08/09/93	XIA
AROCHLOR 1221	ND	0.19	UG/L	08/09/93	XIA
AROCHLOR 1232	ND	0.27	UG/L	08/09/93	XIA
AROCHLOR 1242	ND	0.36	UG/L	08/09/93	XIA
AROCHLOR 1248	ND	0.27	UG/L	08/09/93	XIA
AROCHLOR 1254	ND	0.079	UG/L	08/09/93	XIA
AROCHLOR 1260	ND	0.091	UG/L	08/09/93	XIA

ND = NOT DETECTED
UG/L = PPB MG/L = PPM
MDL = METHOD DETECTION LIMIT

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ANALYSIS REPORT FOR VOLATILE ORGANICS BY GC/MS

		DATA FILES	ANALYSIS DATE
CLIENT : KILLAM	Initial :	>J6924	07/31/93
LAB SAMPLE #: E320253	Dilution #1 :		
MATRIX : WATER	Dilution #2 :		
METHOD : EPA 624			

	COMPOUND	RESULT (ug/L)	MDL (ug/L)	Q
1)	ACROLEIN	ND	250	
2)	ACRYLONITRILE	ND	200	
3)	BENZENE	1200	84	
4)	BROMOFORM	ND	61	
5)	BROMODICHLOROMETHANE	ND	66	
6)	BROMOMETHANE	ND	100	
7)	CARBON TETRACHLORIDE	ND	75	
8)	CHLOROBENZENE	11000	140	
9)	CHLOROETHANE	ND	100	
10)	2-CHLOROETHYL VINYL ETHER	ND	39	
11)	CHLOROFORM	ND	68	
12)	CHLOROMETHANE	ND	110	
13)	cis-1,3-DICHLOROPROPENE	ND	93	
14)	DIBROMOCHLOROMETHANE	ND	63	
15)	1,2-DICHLOROBENZENE	140	180	J
16)	1,3-DICHLOROBENZENE	ND	200	
17)	1,4-DICHLOROBENZENE	180	220	J
18)	1,1-DICHLOROETHANE	ND	57	
19)	1,2-DICHLOROETHANE	ND	66	
20)	1,1-DICHLOROETHYLENE	ND	88	
21)	trans-1,2-DICHLOROETHYLENE	ND	94	
22)	trans-1,3-DICHLOROPROPENE	ND	70	
23)	1,2-DICHLOROPROPANE	ND	74	
24)	ETHYLBENZENE	ND	150	
25)	METHYLENE CHLORIDE	ND	84	
26)	1,1,2,2-TETRACHLOROETHANE	ND	56	
27)	TETRACHLOROETHYLENE	ND	150	
28)	TOLUENE	370	120	
29)	1,1,1-TRICHLOROETHANE	ND	65	
30)	1,1,2-TRICHLOROETHANE	ND	86	
31)	TRICHLOROETHYLENE	ND	150	
32)	TRICHLOROFLUOROMETHANE	ND	90	
33)	VINYL CHLORIDE	ND	100	
34)	XYLENE (total)	ND	340	

ND = NOT DETECTED
MDL= METHOD DETECTION LIMIT

(1) - RESULTS REPORTED FROM DILUTION #1
(2) - RESULTS REPORTED FROM DILUTION #2

QUALIFIERS (Q)
J =INDICATES AN ESTIMATED VALUE BELOW MDL
B =INDICATES COMPOUND FOUND IN THE ASSOCIATED BLANK AS WELL AS IN SAMPLE
E =ESTIMATED VALUE; EXCEEDS INSTRUMENT CALIBRATION RANGE

CERTIFICATIONS: NJ (12129) • NY (10983) • PA (68-408) • MA (NJ141) • CT (PH-0585) • MD (167) • DE • VA (00004) • NC (346) • SC (94009) • TN (2968)

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: KILLAM

Lab Sample ID: E320253 ,

Date Analyzed: 7/31/93 5:13

Lab File ID: >J6924

Matrix: WATER FOR VOA

Number TICs found: 3 CONCENTRATION UNITS: ug/L

CAS NUMBER	COMPOUND NAME	RT	EST CONC	Q	
1.	Unknown	3.87	6600.	4	ME
2.	Unknown	5.19	2500.	4	ME
3. 156592	Ethene, 1,2-dichloro-, (cis) (Z)- (9CI)	11.76	6400.		
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					

QUALIFIERS(Q);
(1)-THIS COMPOUND (OR SIMILAR SPECTRA) FOUND IN LAB BLANK.
(2)-INTERNAL OR SURROGATE STANDARD ADDED BY LABORATORY.
(3)-THIS COMPOUND ALREADY IDENTIFIED AND REPORTED AS TARGET COMPOUND.
(4)-PROBABLE BACKGROUND DUE TO SOLVENT OR CO2.
(5)-OTHER:

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ANALYSIS REPORT

SAMPLE No	COLLECTED DATE	TIME	BY	POINT OF COLLECTION
E320253	07/27/93	15:23	DAF	WATER - 93-0727-CW21, CW-21 HEXCEL, LODI, NJ

TEST DESCRIPTION	RESULT	MDL	UNITS	DATE	INIT
PCB'S					
AROCHLOR 1016	ND	0.40	UG/L	08/03/93	XIA
AROCHLOR 1221	ND	0.17	UG/L	08/03/93	XIA
AROCHLOR 1232	ND	0.38	UG/L	08/03/93	XIA
AROCHLOR 1242	ND	0.77	UG/L	08/03/93	XIA
AROCHLOR 1248	ND	0.24	UG/L	08/03/93	XIA
AROCHLOR 1254	ND	0.27	UG/L	08/03/93	XIA
AROCHLOR 1260	ND	0.35	UG/L	08/03/93	XIA

ND = NOT DETECTED
UG/L = PPB MG/L = PPM
MDL = METHOD DETECTION LIMIT

CERTIFICATIONS: NJ (12129) • NY (10983) • PA (68-408) • MA (NJ141) • CT (PH-0585) • MD (167) • DE • VA (00004) • NC (346) • SC (94009) • TN (2968)

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ANALYSIS REPORT

SAMPLE No	COLLECTED DATE	TIME	BY	POINT OF COLLECTION
E320253R	07/27/93	15:23	DF	WATER - 93-0727-CW21, CW-21 HEXCEL, LODI, NJ

TEST DESCRIPTION	RESULT	MDL	UNITS	DATE	INIT
PCB'S					
AROCHLOR 1016	ND	0.22	UG/L	08/09/93	XIA
AROCHLOR 1221	ND	0.19	UG/L	08/09/93	XIA
AROCHLOR 1232	ND	0.27	UG/L	08/09/93	XIA
AROCHLOR 1242	ND	0.36	UG/L	08/09/93	XIA
AROCHLOR 1248	ND	0.27	UG/L	08/09/93	XIA
AROCHLOR 1254	ND	0.080	UG/L	08/09/93	XIA
AROCHLOR 1260	ND	0.092	UG/L	08/09/93	XIA

ND = NOT DETECTED
UG/L = PPB MG/L = PPM
MDL = METHOD DETECTION LIMIT

CERTIFICATIONS: NJ (12129) • NY (10983) • PA (68-408) • MA (NJ141) • CT (PH-0585) • MD (167) • DE • VA (00004) • NC (346) • SC (94009) • TN (2968)

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ANALYSIS REPORT

SAMPLE No	COLLECTED DATE	TIME	BY	POINT OF COLLECTION
E320254	07/27/93	12:45	DAF	WATER - 93-0727-FB, HEXCEL, FIELD BLANK HEXCEL, LODI, NJ

TEST DESCRIPTION	RESULT	MDL	UNITS	DATE	INIT
PCB'S					
AROCHLOR 1016	ND	0.38	UG/L	08/03/93	XIA
AROCHLOR 1221	ND	0.16	UG/L	08/03/93	XIA
AROCHLOR 1232	ND	0.36	UG/L	08/03/93	XIA
AROCHLOR 1242	ND	0.74	UG/L	08/03/93	XIA
AROCHLOR 1248	ND	0.23	UG/L	08/03/93	XIA
AROCHLOR 1254	ND	0.26	UG/L	08/03/93	XIA
AROCHLOR 1260	ND	0.34	UG/L	08/03/93	XIA

ND = NOT DETECTED
UG/L = PPB MG/L = PPM
MDL = METHOD DETECTION LIMIT

Killam
Associates □ Consulting Engineers
27 B[illegible] Street
Millb[illegible], NJ 07041-1008
Tel.: 201-379-3400
Fax: 201-912-2405

Chain of Custody

934308

Page 1 of 1

Client Name: HEXCEL CORP.

Work ID:

Collected by (print): DANIEL A. FLATIN

Signature:

Project # and Type: 225300-0013/ECRA

Project Manager: GARY K. WALKER

Preserved by: ACCUTEST LABS Killam-Hexcel

Before Sampling ✓ After Sampling

Lab Work Order:

Lab No.	Sample Number	Sample Location	Collected Date	Collected Time	Analyses VOHS	Analyses PLBS	Notes
E320247	93-0727-CW3	CW-3	7-27-93	1320	X	X	
E320248	93-0727-CW5	CW-5	7-27-93	1305	X	X	
E320249	93-0727-CW9	CW-9	7-27-93	1627	X	X	
E320250	93-0727-CW11	CW-11	7-27-93	1615	X	X	
E320251	93-0727-CW15	CW-15	7-27-93	1557	X	X	
E320252	93-0727-CW18	CW-19	7-27-93	1538	X	X	
E320253	93-0727-CW21	CW-21	7-27-93	1523	X	X	
E320254	93-0727-EB	Hexcel	7-27-93	1245	[illegible]	X	Field Blank
	~~93-0726-FB~~	~~ACCUTEST~~	~~7-26-93~~		X		~~Trip-Blank~~
							2C, 4D10
							2C

Report Format: UST ECRA TIER IIb NJPDES DMR JM Other

Preservation Checked in Lab by:

Turnaround Time: STANDARD

Additional Comments RED/T2

ALL SAMPLES RECEIVED PRESERVED AS APPLICABLE

SAMPLES RECEIVED ON ICE AT ACCUTEST

REFER TO HEXCEL CORP. FLD BK NO. 02 PP. 100 - 117 for Sampling Data

Samples Relinquished By:	Samples Received By:	Date/Time
Daniel A. Flatin	William Scott	7/28/93 12:25
William Scott	R. [illegible]	7/28/93 16:20

883750217 34

0792

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ANALYSIS REPORT FOR VOLATILE ORGANICS BY GC/MS

			DATA FILES	ANALYSIS DATE
CLIENT	: 07/30/93	Initial	: >J6903	07/30/93
LAB SAMPLE #	: MB-VJ660	Dilution #1	:	
MATRIX	: WATER	Dilution #2	:	
METHOD	: EPA 624			

	COMPOUND	RESULT (ug/L)	MDL (ug/L)	Q
1)	ACROLEIN	ND	2.5	
2)	ACRYLONITRILE	ND	2.0	
3)	BENZENE	ND	0.84	
4)	BROMOFORM	ND	0.61	
5)	BROMODICHLOROMETHANE	ND	0.66	
6)	BROMOMETHANE	ND	1.0	
7)	CARBON TETRACHLORIDE	ND	0.75	
8)	CHLOROBENZENE	ND	1.4	
9)	CHLOROETHANE	ND	1.0	
10)	2-CHLOROETHYL VINYL ETHER	ND	0.39	
11)	CHLOROFORM	ND	0.68	
12)	CHLOROMETHANE	ND	1.1	
13)	cis-1,3-DICHLOROPROPENE	ND	0.93	
14)	DIBROMOCHLOROMETHANE	ND	0.63	
15)	1,2-DICHLOROBENZENE	ND	1.8	
16)	1,3-DICHLOROBENZENE	ND	2.0	
17)	1,4-DICHLOROBENZENE	ND	2.2	
18)	1,1-DICHLOROETHANE	ND	0.57	
19)	1,2-DICHLOROETHANE	ND	0.66	
20)	1,1-DICHLOROETHYLENE	ND	0.88	
21)	trans-1,2-DICHLOROETHYLENE	ND	0.94	
22)	trans-1,3-DICHLOROPROPENE	ND	0.70	
23)	1,2-DICHLOROPROPANE	ND	0.74	
24)	ETHYLBENZENE	ND	1.5	
25)	METHYLENE CHLORIDE	ND	0.84	
26)	1,1,2,2-TETRACHLOROETHANE	ND	0.56	
27)	TETRACHLOROETHYLENE	ND	1.5	
28)	TOLUENE	ND	1.2	
29)	1,1,1-TRICHLOROETHANE	ND	0.65	
30)	1,1,2-TRICHLOROETHANE	ND	0.86	
31)	TRICHLOROETHYLENE	ND	1.5	
32)	TRICHLOROFLUOROMETHANE	ND	0.90	
33)	VINYL CHLORIDE	ND	1.0	
34)	XYLENE (TOTAL)	ND	3.4	

ND = NOT DETECTED
MDL= METHOD DETECTION LIMIT

(1) - RESULTS REPORTED FROM DILUTION #1
(2) - RESULTS REPORTED FROM DILUTION #2

QUALIFIERS (Q)
J =INDICATES AN ESTIMATED VALUE BELOW MDL
B =INDICATES COMPOUND FOUND IN THE ASSOCIATED BLANK AS WELL AS IN SAMPLE
E =ESTIMATED VALUE; EXCEEDS INSTRUMENT CALIBRATION RANGE

CERTIFICATIONS: NJ (12129) • NY (10983) • PA (68-408) • MA (NJ141) • CT (PH-0585) • MD (167) • DE • VA (00024) • NC (346) • SC (94009) • TN (2933)

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: 07/30/93

Lab Sample ID: MB-VJ660,VJ66

Date Analyzed: 7/30/93 13:09

Lab File ID: >J6903

Matrix: WATER FOR VOA

Number TICs found: 2 CONCENTRATION UNITS: ug/L

CAS NUMBER	COMPOUND NAME	RT	EST CONC	Q
1.	Unknown	3.93	40.	4
2. 75070	Acetaldehyde (DOT)(8CI9CI)	5.25	16.	4
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				

QUALIFIERS(Q);
(1)-THIS COMPOUND (OR SIMILAR SPECTRA) FOUND IN LAB BLANK.
(2)-INTERNAL OR SURROGATE STANDARD ADDED BY LABORATORY.
(3)-THIS COMPOUND ALREADY IDENTIFIED AND REPORTED AS TARGET COMPOUND.
(4)-PROBABLE BACKGROUND DUE TO SOLVENT OR CO2.
(5)-OTHER:

FORM I VOA-TIC

ACCUTEST®
2235 ROUTE 130, DAYTON, NJ 08810 • (908) 329-0200

ANALYSIS REPORT FOR VOLATILE ORGANICS BY GC/MS

			DATA FILES	ANALYSIS DATE
CLIENT	: 08/02/93	Initial	: >J6938	08/02/93
LAB SAMPLE #	: MB-VJ661	Dilution #1	:	
MATRIX	: WATER	Dilution #2	:	
METHOD	: EPA 624			

	COMPOUND	RESULT (ug/L)	MDL (ug/L)	Q
1)	ACROLEIN	ND	2.5	
2)	ACRYLONITRILE	ND	2.0	
3)	BENZENE	ND	0.84	
4)	BROMOFORM	ND	0.61	
5)	BROMODICHLOROMETHANE	ND	0.66	
6)	BROMOMETHANE	ND	1.0	
7)	CARBON TETRACHLORIDE	ND	0.75	
8)	CHLOROBENZENE	ND	1.4	
9)	CHLOROETHANE	ND	1.0	
10)	2-CHLOROETHYL VINYL ETHER	ND	0.39	
11)	CHLOROFORM	ND	0.68	
12)	CHLOROMETHANE	ND	1.1	
13)	cis-1,3-DICHLOROPROPENE	ND	0.93	
14)	DIBROMOCHLOROMETHANE	ND	0.63	
15)	1,2-DICHLOROBENZENE	ND	1.8	
16)	1,3-DICHLOROBENZENE	ND	2.0	
17)	1,4-DICHLOROBENZENE	ND	2.2	
18)	1,1-DICHLOROETHANE	ND	0.57	
19)	1,2-DICHLOROETHANE	ND	0.66	
20)	1,1-DICHLOROETHYLENE	ND	0.88	
21)	trans-1,2-DICHLOROETHYLENE	ND	0.94	
22)	trans-1,3-DICHLOROPROPENE	ND	0.70	
23)	1,2-DICHLOROPROPANE	ND	0.74	
24)	ETHYLBENZENE	ND	1.5	
25)	METHYLENE CHLORIDE	ND	0.84	
26)	1,1,2,2-TETRACHLOROETHANE	ND	0.56	
27)	TETRACHLOROETHYLENE	ND	1.5	
28)	TOLUENE	ND	1.2	
29)	1,1,1-TRICHLOROETHANE	ND	0.65	
30)	1,1,2-TRICHLOROETHANE	ND	0.86	
31)	TRICHLOROETHYLENE	ND	1.5	
32)	TRICHLOROFLUOROMETHANE	ND	0.90	
33)	VINYL CHLORIDE	ND	1.0	
34)	XYLENE (TOTAL)	ND	3.4	

ND = NOT DETECTED
MDL= METHOD DETECTION LIMIT

(1) - RESULTS REPORTED FROM DILUTION #1
(2) - RESULTS REPORTED FROM DILUTION #2

QUALIFIERS (Q)
J =INDICATES AN ESTIMATED VALUE BELOW MDL
B =INDICATES COMPOUND FOUND IN THE ASSOCIATED BLANK AS WELL AS IN SAMPLE
E =ESTIMATED VALUE; EXCEEDS INSTRUMENT CALIBRATION RANGE

CERTIFICATIONS NJ (12129) • NY (10983) • PA (68-408) • MA (NJ141) • CT (PH-0585) • MD (167) • DE • VA (00004) • NC (346) • SC (94009) • TN (2968)

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: 08/02/93

Lab Sample ID: MB-VJ661,VJ66

Date Analyzed: 8/02/93 11:59

Lab File ID: >J6938

Matrix: WATER FOR VOA

Number TICs found: 2 CONCENTRATION UNITS: ug/L

CAS NUMBER	COMPOUND NAME	RT	EST CONC	Q
1.	Unknown	3.90	40.	4
2.	Unknown	5.21	13.	4
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				

QUALIFIERS(Q);
(1)-THIS COMPOUND (OR SIMILAR SPECTRA) FOUND IN LAB BLANK.
(2)-INTERNAL OR SURROGATE STANDARD ADDED BY LABORATORY.
(3)-THIS COMPOUND ALREADY IDENTIFIED AND REPORTED AS TARGET COMPOUND.
(4)-PROBABLE BACKGROUND DUE TO SOLVENT OR CO2.
(5)-OTHER:

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ACCUTEST
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ANALYSIS REPORT FOR VOLATILE ORGANICS BY GC/MS

			DATA FILES	ANALYSIS DATE
CLIENT	: 08/10/93	Initial	: >G7479	08/10/93
LAB SAMPLE #:	MB-VG742	Dilution #1	:	
MATRIX	: WATER	Dilution #2	:	
METHOD	: EPA 624			

	COMPOUND	RESULT (ug/L)	MDL (ug/L)	Q
1)	ACROLEIN	ND	2.5	
2)	ACRYLONITRILE	ND	2.0	
3)	BENZENE	ND	0.84	
4)	BROMOFORM	ND	0.61	
5)	BROMODICHLOROMETHANE	ND	0.66	
6)	BROMOMETHANE	ND	1.0	
7)	CARBON TETRACHLORIDE	ND	0.75	
8)	CHLOROBENZENE	ND	1.4	
9)	CHLOROETHANE	ND	1.0	
10)	2-CHLOROETHYL VINYL ETHER	ND	0.39	
11)	CHLOROFORM	ND	0.68	
12)	CHLOROMETHANE	ND	1.1	
13)	cis-1,3-DICHLOROPROPENE	ND	0.93	
14)	DIBROMOCHLOROMETHANE	ND	0.63	
15)	1,2-DICHLOROBENZENE	ND	1.8	
16)	1,3-DICHLOROBENZENE	ND	2.0	
17)	1,4-DICHLOROBENZENE	ND	2.2	
18)	1,1-DICHLOROETHANE	ND	0.57	
19)	1,2-DICHLOROETHANE	ND	0.66	
20)	1,1-DICHLOROETHYLENE	ND	0.88	
21)	trans-1,2-DICHLOROETHYLENE	ND	0.94	
22)	trans-1,3-DICHLOROPROPENE	ND	0.70	
23)	1,2-DICHLOROPROPANE	ND	0.74	
24)	ETHYLBENZENE	ND	1.5	
25)	METHYLENE CHLORIDE	ND	0.84	
26)	1,1,2,2-TETRACHLOROETHANE	ND	0.56	
27)	TETRACHLOROETHYLENE	ND	1.5	
28)	TOLUENE	ND	1.2	
29)	1,1,1-TRICHLOROETHANE	ND	0.65	
30)	1,1,2-TRICHLOROETHANE	ND	0.86	
31)	TRICHLOROETHYLENE	ND	1.5	
32)	TRICHLOROFLUOROMETHANE	ND	0.90	
33)	VINYL CHLORIDE	ND	1.0	
34)	XYLENE (total)	ND	3.4	

ND = NOT DETECTED
MDL= METHOD DETECTION LIMIT

(1) - RESULTS REPORTED FROM DILUTION #1
(2) - RESULTS REPORTED FROM DILUTION #2

QUALIFIERS (Q)
J =INDICATES AN ESTIMATED VALUE BELOW MDL
B =INDICATES COMPOUND FOUND IN THE ASSOCIATED BLANK AS WELL AS IN SAMPLE
E =ESTIMATED VALUE; EXCEEDS INSTRUMENT CALIBRATION RANGE

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: 08/10/93

Lab Sample ID: MB-VG742

Date Analyzed: 8/10/93 13:12

Lab File ID: >G7479

Matrix: WATER FOR VOA

Number TICs found: 2 CONCENTRATION UNITS: ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST CONC	Q
1.		Unknown	3.25	95.	4
2.	75070	Acetaldehyde (DOT)(8CI9CI)	4.19	11.	4
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					

QUALIFIERS(Q);
(1)-THIS COMPOUND (OR SIMILAR SPECTRA) FOUND IN LAB BLANK.
(2)-INTERNAL OR SURROGATE STANDARD ADDED BY LABORATORY.
(3)-THIS COMPOUND ALREADY IDENTIFIED AND REPORTED AS TARGET COMPOUND.
(4)-PROBABLE BACKGROUND DUE TO SOLVENT OR CO2.
(5)-OTHER:

FORM I VOA-TIC

PCB ORGANICS (GC) ANALYSIS REPORT

			DATA FILES	ANALYSIS DATES
OB Number	: ( )		=======	========
LIENT	: GC-1522	SAMPLE INITIAL :	>05428	08/03/93
AB SAMPLE #	: MB-1522	SAMPLE DIL. #1 :		
ATRIX	: WATER	SAMPLE DIL. #2 :		
ETHOD	: EPA-608	ANALYST :	XIA	

COMPOUND	FOOTNOTE	RESULT (ug/L)	MDL (ug/L)	Q
1) Aroclor-1016		ND	0.38	
2) Aroclor-1221		ND	0.16	
3) Aroclor-1232		ND	0.36	
4) Aroclor-1242		ND	0.74	
5) Aroclor-1248		ND	0.23	
6) Aroclor-1254		ND	0.26	
7) Aroclor-1260		ND	0.34	

D = NOT DETECTED (1) - RESULTS REPORTED FROM DILUTION #1
DL= METHOD DETECTION LIMIT (2) - RESULTS REPORTED FROM DILUTION #2

OOTNOTE P10A = MDL ELEVATED DUE TO DILUTION FACTOR
UALIFIERS (Q)

I =INDICATES AN ESTIMATED VALUE BELOW MDL
=INDICATES COMPOUND FOUND IN THE ASSOCIATED BLANK AS WELL AS IN SAMPLE

PCB ORGANICS (GC) ANALYSIS REPORT

			DATA FILES	ANALYSIS DATES
B Number	: ( )		=======	========
IENT	: GC-1522-3	SAMPLE INITIAL :	>05525	08/06/93
B SAMPLE #	: MB-1522-3	SAMPLE DIL. #1 :		
TRIX	: WATER	SAMPLE DIL. #2 :		
THOD	: EPA-608	ANALYST :	XIA	

COMPOUND	FOOTNOTE	RESULT (ug/L)	MDL (ug/L)	Q
) Aroclor-1016		ND	0.21	
) Aroclor-1221		ND	0.19	
) Aroclor-1232		ND	0.26	
) Aroclor-1242		ND	0.34	
) Aroclor-1248		ND	0.26	
) Aroclor-1254		ND	0.076	
) Aroclor-1260		ND	0.087	

= NOT DETECTED (1) - RESULTS REPORTED FROM DILUTION #1
DL= METHOD DETECTION LIMIT (2) - RESULTS REPORTED FROM DILUTION #2

OTNOTE P10A = MDL ELEVATED DUE TO DILUTION FACTOR
ALIFIERS (Q)

=INDICATES AN ESTIMATED VALUE BELOW MDL
=INDICATES COMPOUND FOUND IN THE ASSOCIATED BLANK AS WELL AS IN SAMPLE