N96095.AR.000564
NWIRP CALVERTON NY
5090.3a

DEPARTMENT OF THE NAVY
ENGINEERING FIELD ACTIVITY, NORTHEAST
NAVAL FACILITIES ENGINEERING COMMAND
10 INDUSTRIAL HIGHWAY
MAIL STOP, #82
LESTER, PA 19113-2090

IN REPLY REFER TO
5090
Code EV21/JLC

26 NOV 2003

Mr. Edwin Dassatti, P.E.
Director
Bureau of Hazardous Waste & Radiation Management
New York State Department of Environmental Conservation
625 Broadway, 8th Floor
Albany, New York 12233-7252

Dear Mr. Dassatti:

RE: NAVAL WEAPONS INDUSTRIAL RESERVE PLANT (NWIRP) CALVERTON, NEW YORK; NYSDEC ID #1-4730-00013/0001; EPA ID # NYD003995198

The Navy is in receipt of your letter dated September 22, 2003, in which you expressed concern regarding the potential for soil vapor intrusion into buildings near Installation Restoration (IR) Sites 6A and 7 which have been transferred out of Navy ownership. This letter goes on to request that the Navy conduct a soil gas survey in the vicinity of these non-Navy buildings in order to determine if soil vapor intrusion is occurring.

The Department of Navy can not comply with your request as the land and buildings in question are no longer under Navy ownership. In September 1998, the buildings and land referenced in your letter were part of an initial conveyance of land to the Town of Riverhead by Quickclaim deed. This was done subsequent to the submission of a Finding of Suitability to Transfer (FOST) document, dated September 8, 1998, that determined that all remedial actions had been taken for all but 350 acres of land at the former NWIRP Calverton facility. This FOST document was forwarded to NYSDEC and the USEPA.

In addition, the Navy would like to offer the following items of discussion for consideration:

- Soil gas testing in this area was previously conducted and submitted to NYSDEC and USEPA as part of the Navy's Phase 1 Remedial Investigation effort that was completed in 1995. This data, which has been attached as enclosure (1), demonstrated the absence of site-related contamination outside of the boundaries of what has been designated as IR Sites 6A and 7. Please direct your attention to those samples that have been marked that correspond to soil gas locations that are nearest to the buildings in question.

- The referenced areas are hydraulically up gradient of Navy IR Sites 6A and 7. Groundwater contamination was not found to be present under or near the buildings in question and, as a result, direct vertical migration of contaminants from the groundwater to soil gas under a building slab will not occur.

- With the absence of a contaminated groundwater plume directly beneath the buildings in question, it has been suggested that the mechanical systems that are within the building's themselves could be operating in such a way as to draw soil vapor from the Navy's IR Sites towards the buildings. Data that was collected during operation of a soil vapor extraction system at Navy IR Site 2 over several years showed that even using aggressive soil vapor extraction techniques, soil vapors could only be captured from a radius of 30 to 50 feet from the extraction wells. Soil and groundwater contamination at Sites 6A and 7 are more than 100 feet away from the buildings in question.

- An AS/SVE system is planned for Site 7, with operation to start in the spring of 2004. Therefore, any soil gas data collected at this time will not be representative of future conditions. Accordingly, this data should not be used in any current risk assessment that assumes long-term exposure.

- Similar to Site 7 discussions above, the Navy is also anticipating remediation of soil and groundwater contamination at Site 6A. Only in the event that the Navy determines that active remediation is not required, would a long-term risk evaluation that addresses contaminated soil gas be appropriate at IR Site 6A.

If you have any questions or would like to discuss this issue further, please give me a call at (610) 595-0567, extension 163.

Sincerely,

JAMES L. COLTER
Remedial Project Manager
by Direction of the
Commanding Officer

Enclosure: (1) Excerpt from Appendix N of Final Phase 1 Remedial Investigation (RI) Report dated April 1995

Distribution:
NYSDEC (Albany), Larry Rosenmann
NYSDEC (Albany), Henry Wilkie
NYSDEC (Stony Brook), Stan Farkas
NYSDOH, Wendy Kuehner
SCDHS, Sy Robbins
USEPA Region II, Carol Stein
USEPA Region II, Carla Struble

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NAVAIR, Joe Kaminski
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Code EV2
Code EV21/RFL

RCRA Facility Investigation

for

Naval Weapons Industrial Reserve Plant

Calverton, New York

VOLUME V
APPENDICES K-N

Northern Division

Naval Facilities Engineering Command

Contract Number N62472-90-D-1298

Contract Task Order 0138

April 1995

Halliburton NUS
CORPORATION

ENCL (1)

APPENDICES

VOLUME II

APPENDIX A - SURVEY NOTES

APPENDIX B - SOIL BORING LOG SHEETS

APPENDIX C - CHAIN OF CUSTODY RECORDS

APPENDIX D - SAMPLE LOG SHEETS

VOLUME III

APPENDIX E - MONITORING WELL CONSTRUCTION SHEETS

APPENDIX F - SLUG TEST/PUMP TESTS

APPENDIX G - TEST PIT LOG SHEETS

APPENDIX H - GROUND PENETRATING RADAR (GPR) REPORT

APPENDIX I - GAMMA RAY LOGS

VOLUME IV

APPENDIX J - ANALYTICAL RESULTS

VOLUME V

APPENDIX K - DATA VALIDATION LETTERS

APPENDIX L - RISK ASSESSMENT CALCULATIONS

APPENDIX M - TOXICITY PROFILES

APPENDIX N - SOIL GAS REPORT

SOIL GAS DATA

NWIRP-CALVERTON
BETHPAGE, NEW YORK

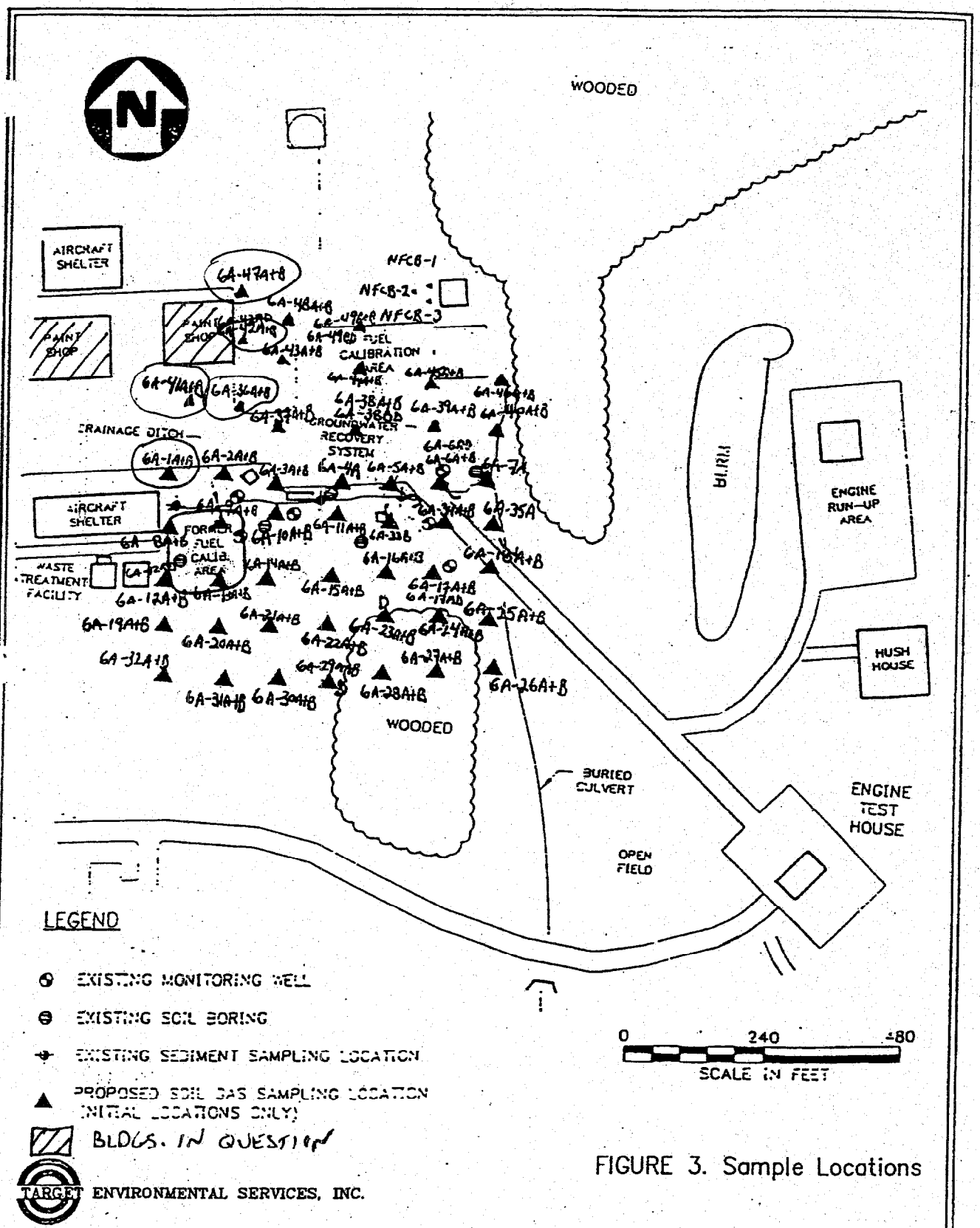
PREPARED FOR

HALLIBURTON NUS
993 OLD EAGLE SCHOOL ROAD, SUITE 415
WAYNE, PENNSYLVANIA 19087-1710

PREPARED BY

TARGET ENVIRONMENTAL SERVICES, INC.
9180 RUMSEY ROAD
COLUMBIA, MARYLAND 21045
(410) 992-6622

APRIL 1994



LEGEND

- EXISTING MONITORING WELL
- EXISTING SOIL BORING
- EXISTING SEDIMENT SAMPLING LOCATION
- PROPOSED SOIL GAS SAMPLING LOCATION (INITIAL LOCATIONS ONLY)
- BLDGS. IN QUESTION

TARGET ENVIRONMENTAL SERVICES, INC.

FIGURE 3. Sample Locations

This map is integral to a written report and should be viewed in that context.

FUEL CALIBRATION AREA
NWIRP—CALVERTON
BETHPAGE, NEW YORK

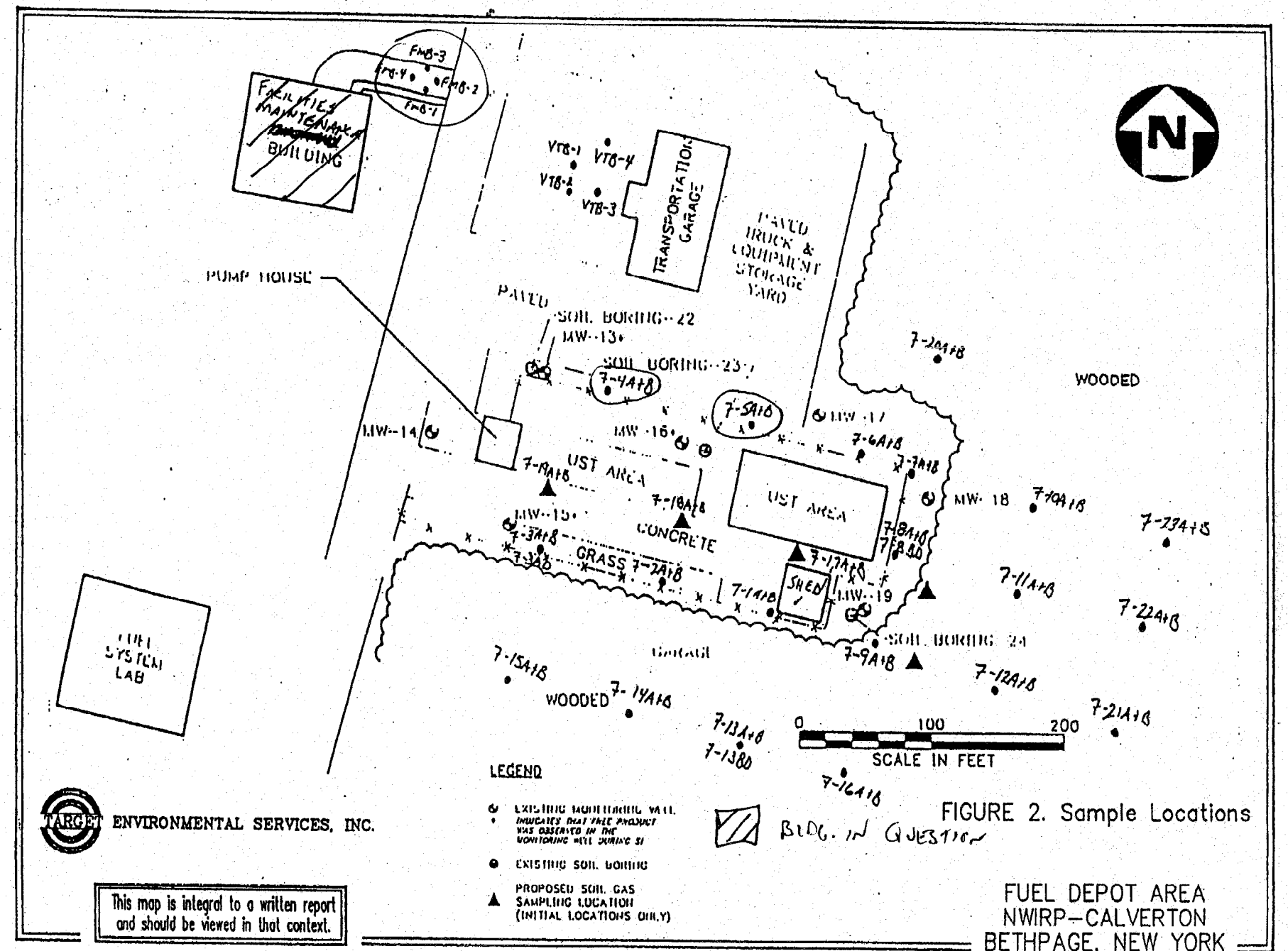


FIGURE 2. Sample Locations

FUEL DEPOT AREA
NWIRP–CALVERTON
BETHPAGE, NEW YORK

TABLE 1

ANALYTE CONCENTRATIONS VIA GC/FID (µg/l)

SAMPLE	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES	TOTAL FID VOLATILES*
REPORTING LIMIT	1.0	1.0	1.0	1.0	10
2-62B	<1.0	<1.0	<1.0	<1.0	<10
2-63A	<1.0	<1.0	<1.0	<1.0	<10
2-63B	<1.0	<1.0	<1.0	<1.0	<10
6A-1A	<1.0	<1.0	<1.0	<1.0	<10
6A-1B	<1.0	<1.0	<1.0	<1.0	<10
6A-2A	<1.0	<1.0	<1.0	<1.0	<10
6A-2B	<1.0	<1.0	<1.0	<1.0	<10
6A-3A	<1.0	<1.0	<1.0	<1.0	<10
6A-3B	<1.0	119	7.8	37	2,352
6A-4A	<1.0	3.0	12	45	1,637
6A-5A	<1.0	<1.0	<1.0	2.4	16
6A-5B	<1.0	5.6	<1.0	8.0	257
6A-6A	<1.0	<1.0	<1.0	<1.0	<10
6A-6B	<1.0	<1.0	<1.0	<1.0	<10
6A-7A	<1.0	<1.0	<1.0	<1.0	<10
6A-8A	<1.0	<1.0	<1.0	<1.0	<10
6A-8B	<1.0	<1.0	<1.0	<1.0	<10
6A-9A	<1.0	<1.0	<1.0	<1.0	<10
6A-9B	<1.0	<1.0	<1.0	<1.0	<10
6A-10A	<1.0	<1.0	<1.0	<1.0	<10
6A-10B	<1.0	<1.0	<1.0	<1.0	<10
6A-11A	<1.0	<1.0	<1.0	<1.0	<10
6A-11B	2.7	5.8	55	143	3,719
6A-12A	<1.0	<1.0	<1.0	1.4	<10
6A-12B	<1.0	<1.0	<1.0	<1.0	<10
6A-13A	<1.0	<1.0	<1.0	<1.0	<10
6A-13B	<1.0	<1.0	<1.0	<1.0	<10
6A-14A	<1.0	<1.0	<1.0	<1.0	<10
6A-14B	<1.0	<1.0	<1.0	<1.0	<10
6A-15A	<1.0	<1.0	<1.0	<1.0	<10
6A-15B	<1.0	<1.0	<1.0	<1.0	<10
6A-16A	<1.0	<1.0	<1.0	<1.0	<10
6A-16B	<1.0	<1.0	<1.0	<1.0	<10
6A-17A	<1.0	<1.0	<1.0	<1.0	<10
6A-17B	<1.0	<1.0	<1.0	<1.0	<10
6A-18A	<1.0	<1.0	<1.0	<1.0	<10
6A-18B	<1.0	<1.0	<1.0	<1.0	<10
6A-19A	<1.0	<1.0	<1.0	<1.0	<10
6A-19B	<1.0	<1.0	<1.0	<1.0	<10
6A-20A	<1.0	<1.0	<1.0	<1.0	<10

** CALCULATED USING THE SUM OF THE AREAS OF ALL INTEGRATED CHROMATOGRAM PEAKS AND THE INSTRUMENT RESPONSE FACTOR FOR TOLUENE*

TABLE 1

ANALYTE CONCENTRATIONS VIA GC/FID (µg/l)

SAMPLE	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES	TOTAL FID VOLATILES*
REPORTING LIMIT	1.0	1.0	1.0	1.0	10
6A-20B	<1.0	<1.0	<1.0	<1.0	<10
6A-21A	<1.0	<1.0	<1.0	<1.0	<10
6A-21B	<1.0	<1.0	<1.0	<1.0	<10
6A-22A	<1.0	<1.0	<1.0	<1.0	<10
6A-22B	<1.0	<1.0	<1.0	<1.0	<10
6A-23A	<1.0	<1.0	<1.0	<1.0	<10
6A-23B	<1.0	<1.0	<1.0	<1.0	<10
6A-24A	<1.0	<1.0	<1.0	<1.0	<10
6A-24B	<1.0	<1.0	<1.0	<1.0	<10
6A-25A	<1.0	<1.0	<1.0	<1.0	<10
6A-25B	<1.0	<1.0	<1.0	<1.0	<10
6A-26A	<1.0	<1.0	<1.0	<1.0	<10
6A-26B	<1.0	<1.0	<1.0	<1.0	<10
6A-27A	<1.0	<1.0	<1.0	<1.0	<10
6A-27B	<1.0	<1.0	<1.0	<1.0	<10
6A-28A	<1.0	<1.0	<1.0	<1.0	<10
6A-28B	<1.0	<1.0	<1.0	<1.0	<10
6A-29A	<1.0	<1.0	<1.0	<1.0	<10
6A-29B	<1.0	<1.0	<1.0	<1.0	<10
6A-30A	<1.0	<1.0	<1.0	<1.0	<10
6A-30B	<1.0	<1.0	<1.0	<1.0	<10
6A-31A	<1.0	<1.0	<1.0	<1.0	<10
6A-31B	<1.0	<1.0	<1.0	<1.0	<10
6A-32A	<1.0	<1.0	<1.0	<1.0	<10
6A-32B	<1.0	<1.0	<1.0	<1.0	<10
6A-33B	2.4	4.8	52	257	7,765
6A-34A	<1.0	<1.0	<1.0	4.4	27
6A-34B	<1.0	<1.0	<1.0	<1.0	<10
6A-35A	<1.0	<1.0	<1.0	<1.0	<10
6A-36A	<1.0	<1.0	<1.0	<1.0	<10
6A-36B	<1.0	<1.0	<1.0	<1.0	<10
6A-37A	<1.0	<1.0	<1.0	<1.0	<10
6A-37B	<1.0	<1.0	<1.0	<1.0	<10
6A-38A	<1.0	<1.0	<1.0	<1.0	<10
6A-38B	<1.0	<1.0	<1.0	<1.0	<10
6A-39A	<1.0	<1.0	<1.0	<1.0	<10
6A-39B	<1.0	<1.0	<1.0	<1.0	<10
6A-40A	<1.0	<1.0	<1.0	<1.0	<10
6A-40B	<1.0	<1.0	<1.0	<1.0	<10
6A-41A	<1.0	<1.0	<1.0	<1.0	<10
6A-41B	<1.0	<1.0	<1.0	<1.0	<10

** CALCULATED USING THE SUM OF THE AREAS OF ALL INTEGRATED CHROMATOGRAM PEAKS AND THE INSTRUMENT RESPONSE FACTOR FOR TOLUENE*

TABLE 1

ANALYTE CONCENTRATIONS VIA GC/FID (µg/l)

SAMPLE	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES	TOTAL FID VOLATILES*
REPORTING LIMIT	1.0	1.0	1.0	1.0	10
6A-42A	<1.0	<1.0	<1.0	<1.0	<10
6A-42B	<1.0	<1.0	<1.0	<1.0	<10
6A-43A	<1.0	<1.0	<1.0	<1.0	<10
6A-43B	<1.0	<1.0	<1.0	<1.0	<10
6A-44A	<1.0	<1.0	20	33	1,216
6A-44B	<1.0	<1.0	<1.0	<1.0	<10
6A-45A	<1.0	<1.0	<1.0	1.8	26
6A-45B	<1.0	<1.0	<1.0	<1.0	<10
6A-46A	<1.0	<1.0	<1.0	<1.0	<10
6A-46B	<1.0	<1.0	<1.0	<1.0	<10
6A-47A	<1.0	<1.0	<1.0	<1.0	<10
6A-47B	<1.0	<1.0	<1.0	<1.0	<10
6A-48A	<1.0	<1.0	<1.0	<1.0	<10
6A-48B	<1.0	<1.0	<1.0	<1.0	<10
6A-49A	<1.0	<1.0	<1.0	<1.0	<10
6A-49B	<1.0	<1.0	<1.0	<1.0	<10
7-1A	<1.0	<1.0	<1.0	<1.0	<10
7-1B	<1.0	<1.0	<1.0	<1.0	<10
7-2A	<1.0	<1.0	<1.0	<1.0	<10
7-2B	<1.0	<1.0	<1.0	<1.0	<10
7-3A	<1.0	<1.0	<1.0	<1.0	<10
7-3B	<1.0	<1.0	<1.0	<1.0	<10
7-4A	<1.0	<1.0	<1.0	<1.0	<10
7-4B	<1.0	<1.0	<1.0	<1.0	<10
7-5A	<1.0	<1.0	<1.0	<1.0	<10
7-5B	<1.0	<1.0	<1.0	<1.0	<10
7-6A	<1.0	<1.0	<1.0	<1.0	<10
7-6B	<1.0	<1.0	<1.0	<1.0	<10
7-7A	<1.0	<1.0	<1.0	<1.0	<10
7-7B	<1.0	<1.0	<1.0	<1.0	<10
7-8A	<1.0	<1.0	<1.0	<1.0	<10
7-8B	<1.0	1.2	<1.0	42	806
7-9A	<1.0	<1.0	<1.0	<1.0	<10
7-9B	<1.0	<1.0	<1.0	<1.0	<10
7-10A	<1.0	<1.0	<1.0	<1.0	<10
7-10B	<1.0	<1.0	<1.0	<1.0	<10
7-11A	1.2	<1.0	<1.0	2.8	12
7-11B	<1.0	<1.0	<1.0	<1.0	<10
7-12A	<1.0	<1.0	<1.0	<1.0	<10
7-12B	<1.0	<1.0	<1.0	<1.0	<10

** CALCULATED USING THE SUM OF THE AREAS OF ALL INTEGRATED CHROMATOGRAM PEAKS AND THE INSTRUMENT RESPONSE FACTOR FOR TOLUENE*

TABLE 1

ANALYTE CONCENTRATIONS VIA GC/FID (µg/l)

SAMPLE	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES	TOTAL FID VOLATILES*
REPORTING LIMIT	1.0	1.0	1.0	1.0	10
FMB-1	<1.0	<1.0	<1.0	<1.0	<10
FMB-2	<1.0	<1.0	<1.0	<1.0	<10
FMB-3	<1.0	<1.0	<1.0	<1.0	<10
FMB-4	<1.0	<1.0	<1.0	<1.0	<10
JFSL-1	<1.0	<1.0	<1.0	<1.0	<10
JFSL-2	<1.0	<1.0	<1.0	<1.0	<10
JFSL-3	<1.0	<1.0	<1.0	<1.0	<10
JFSL-4	<1.0	<1.0	<1.0	<1.0	<10
NFCB-1	<1.0	<1.0	<1.0	<1.0	<10
NFCB-2	<1.0	<1.0	<1.0	<1.0	<10
NFCB-3	<1.0	<1.0	<1.0	<1.0	<10
SPS-1	<1.0	<1.0	<1.0	<1.0	<10
SPS-2	<1.0	<1.0	<1.0	<1.0	<10
SPS-3	<1.0	<1.0	<1.0	<1.0	<10
SPS-4	<1.0	<1.0	<1.0	<1.0	<10
SPS-5	<1.0	<1.0	<1.0	<1.0	<10
SPS-6	<1.0	<1.0	<1.0	<1.0	<10
SPS-7	<1.0	<1.0	<1.0	<1.0	<10
SPS-8	<1.0	<1.0	<1.0	<1.0	<10
SPS-9	<1.0	<1.0	<1.0	<1.0	<10
SPS-10	<1.0	<1.0	<1.0	<1.0	<10
SPS2-1	<1.0	<1.0	<1.0	<1.0	<10
SPS2-2	<1.0	<1.0	<1.0	<1.0	<10
SPS2-3	<1.0	<1.0	<1.0	<1.0	<10
SPS2-4	<1.0	<1.0	<1.0	<1.0	<10
SPS2-5	<1.0	<1.0	<1.0	<1.0	<10
SPS2-6	<1.0	<1.0	<1.0	<1.0	<10
SPS2-7	<1.0	<1.0	<1.0	<1.0	<10
SPS2-8	<1.0	<1.0	<1.0	<1.0	<10
SPS2-9	<1.0	<1.0	<1.0	<1.0	<10
SPS2-10	<1.0	<1.0	<1.0	<1.0	<10
SPS2-11	<1.0	<1.0	<1.0	<1.0	<10
SPS2-12	<1.0	<1.0	<1.0	<1.0	<10
SPS2-13	<1.0	<1.0	<1.0	<1.0	<10
SPS2-14	<1.0	<1.0	<1.0	<1.0	<10
SPS2-15	<1.0	<1.0	<1.0	<1.0	<10
SPS2-16	<1.0	<1.0	<1.0	<1.0	<10

** CALCULATED USING THE SUM OF THE AREAS OF ALL INTEGRATED CHROMATOGRAM PEAKS AND THE INSTRUMENT RESPONSE FACTOR FOR TOLUENE*

TABLE 2

ANALYTE CONCENTRATIONS VIA GC/ECD (µg/l)

SAMPLE	11DCE	CH2Cl2	112DCE	11DCA	c12DCE	CHCl3	111TCA	CCl4	TCE	112TCA	PCE
REPORTING LIMIT	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
2-44A	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-44B	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-45A	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-45B	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-46A	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-46B	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-47A	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-47B	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	<1.0	3.8	<1.0	<1.0
2-48A	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-48B	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-49A	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-49B	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-50A	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-50B	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-51A	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-5[illegible]	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-[illegible]	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-52B	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-53A	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-53B	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-54A	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-54B	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-55A	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-55B	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-56A	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-56B	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-57A	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.3	<1.0	<1.0
2-57B	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.5	<1.0	3.0	<1.0	<1.0
2-58A	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.4	<1.0	<1.0
2-58B	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.6	<1.0	<1.0
2-59A	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-59B	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-60A	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-60B	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	3.5	<1.0	<1.0
2-61A	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-61B	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-62A	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-62B	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-63A	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-63B	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
5A-1A	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
5A-1B	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

ANALYTE ABBREVIATIONS DEFINED AT THE END OF THE TABLE

TABLE 2

ANALYTE CONCENTRATIONS VIA GC/ECD (µg/l)

SAMPLE	11DCE	CH2Cl2	t12DCE	11DCA	c12DCE	CHCl3	111TCA	CCl4	TCE	112TCA	PCE
REPORTING LIMIT	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
6A-24B	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
6A-25A	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
6A-25B	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
6A-26A	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
6A-26B	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
6A-27A	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
6A-27B	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
6A-28A	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
6A-28B	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
6A-29A	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
6A-29B	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
6A-30A	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
6A-30B	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
6A-31A	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
6A-31B	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
6A-32A	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
6A-32B	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
6A-33B	<1.0	<1.0	<1.0	3.7	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
6A-34A	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
6A-34B	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
6A-35A	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
6A-36A	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
6A-36B	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.7	<1.0	<1.0	<1.0	<1.0
6A-37A	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
6A-37B	<1.0	<1.0	<1.0	1.7	<1.0	<1.0	1.1	<1.0	<1.0	<1.0	<1.0
6A-38A	<1.0	<1.0	<1.0	4.4	<1.0	<1.0	1.9	<1.0	<1.0	<1.0	<1.0
6A-38B	<1.0	<1.0	<1.0	3.9	<1.0	<1.0	1.9	<1.0	<1.0	<1.0	<1.0
6A-39A	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
6A-39B	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
6A-40A	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
6A-40B	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
6A-41A	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
6A-41B	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
6A-42A	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
6A-42B	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
6A-43A	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
6A-43B	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
6A-44A	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
6A-44B	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
6A-45A	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
6A-45B	3.9	<1.0	<1.0	<1.0	<1.0	<1.0	2.6	<1.0	<1.0	<1.0	<1.0
6A-46A	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
6A-46B	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

ANALYTE ABBREVIATIONS DEFINED AT THE END OF THE TABLE

TABLE 2

ANALYTE CONCENTRATIONS VIA GC/ECD (µg/l)

MPLE	11DCE	CH2Cl2	t12DCE	11DCA	c12DCE	CHCl3	111TCA	CCl4	TCE	112TCA	PCE
ORTING	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
r											
47A	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
47B	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
48A	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
48B	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
49A	8.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
49B	72	<1.0	<1.0	<1.0	<1.0	<1.0	2.5	<1.0	<1.0	<1.0	<1.0
S.Ve 7											
A	27	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
B (1)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
A (2)	1.7	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
B	3.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
A (3)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
B	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
A (4)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
B	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
A (5)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
B	1.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
A	2.7	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
B	3.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
A	26	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
B	39	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
A	14	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
B	41	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
A	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
B	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
DA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
DB	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
IA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
IB	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2A	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2B	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
3A	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
3B	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
4A	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
4B	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
5A	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
5B	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
6A	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
6B	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
7A	34	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
7B	38	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
8A	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
8B	4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

ANALYTE ABBREVIATIONS DEFINED AT THE END OF THE TABLE

TABLE 2

ANALYTE CONCENTRATIONS VIA GC/ECD (µg/l)

SAMPLE	11DCE	CH2Cl2	t12DCE	11DCA	c12DCE	CHCl3	111TCA	CCl4	TCE	112TCA	PCE
REPORTING LIMIT	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
7-19A	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
7-19B	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
7-20A	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
7-20B	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
7-21A	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
7-21B	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
7-22A	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
7-22B	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
7-23A	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
7-23B	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
ANC-1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
ANC-2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
ANC-3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
ANC-4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
AN[illegible]5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
AN[illegible]3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
ANC-7	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
ANC-8	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
BG-A	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
ETH-1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
ETH-2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.6	<1.0	<1.0	<1.0	<1.0
ETH-3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.1	<1.0	<1.0	<1.0	<1.0
ETH-4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.7	<1.0	<1.0	<1.0	<1.0
ETH-5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.3	<1.0	<1.0	<1.0	<1.0
FMB-1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
FMB-2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
FMB-3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
FMB-4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
JFSL-1	4.3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
JFSL-2	2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
JFSL-3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
JFSL-4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
NFCB-1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
NFCB-2	6.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
NF[illegible]3	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

ANALYTE ABBREVIATIONS DEFINED AT THE END OF THE TABLE