FPM group — Engineering and Environmental Science

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RE: Long-Term Monitoring Report
Petroleum Source Removal Areas of Concern
Former Griffiss Air Force Base, Rome, New York
Contract No. F41624-03-D-8601-0027
FPM Project No. 40-05-27
Revision 0.0
December 2008

Submitted herewith for your review and comment is the subject report, provided in support of recently completed work at the former Griffiss Air Force Base. The work was completed under the above-referenced Performance-Based Contract (PBC).

Please provide written comments no later than Feb 2, 2009. If you have any questions pertaining to the report or the request for review, please call me at 315-336-7721 ext. 202, or e-mail me at g.atik@fpm-group.com.

Very truly yours,

Gaby A. Atik, P.E.
Director, Regional Operations

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Petroleum Source Removal Areas of Concern
Former Griffiss Air Force Base
Rome, New York

LONG-TERM MONITORING REPORT

(Fall 2008)

Contract No. F41624-03-D-8601

Revision 0.0
December 2008

FPM group

LONG TERM MONITORING REPORT (Spring 2008)

PETROLEUM SOURCE REMOVAL AREAS of CONCERN

Prepared for:

Air Force Real Property Agency
Former Griffiss Air Force Base
Rome, New York

through

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Contract No. F41624-03-D-8601
Delivery Order No. 0027

Revision 0.0
December 2008

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Appendix B Validated Lab Data
Appendix C Raw Lab Data

LIST OF ACRONYMS AND ABBREVIATIONS

AFB	Air Force Base
AFCEE	Air Force Center for Engineering and the Environment
AOI	Area of Interest
ARAR	Applicable or Relevant and Appropriate Requirements
AST	aboveground storage tank
AVGAS	aviation gasoline
bgs	below ground surface
BTEX	benzene, toluene, ethylbenzene, xylene
BTOIC	below top of inner casing
COC	contaminant of concern
CSM	Conceptual Site Model
c.y.	cubic yard
DO	dissolved oxygen
EBS	Environmental Baseline Survey
E&E	Ecology and Environmental, Inc.
ESI	Expanded Site Investigation
FID	flame ionization detector
FPM	FPM Group, Ltd.
FSP	field sampling plan
JP-4	jet propulsion fuel grade 4
LAW	Law Engineering and Environmental Services, Inc.
LTM	long-term monitoring
MOGAS	automotive gasoline
MSL	mean sea level
NYS	New York State
NYSBC	New York State Barge Canal
NYSDEC	New York State Department of Environmental Conservation
ORC®	Oxygen Release Compound®
ppm	parts per million

QAPP	Quality Assurance Project Plan
RI	Remedial Investigation
SAP	sampling and analysis plan
SI	site investigation
SRA	source removal area of concern
STARS	Spill Technology and Remediation Series
SVOC	semi-volatile organic compound
TAGM	Technical and Administrative Guidance Memorandum
TPH	Total Petroleum Hydrocarbon
USEPA	United States Environmental Protection Agency
UST	underground storage tank
VOC	volatile organic compound
µg/L	micrograms per liter

1 INTRODUCTION

FPM Group Ltd. (FPM) has been contracted by the Air Force Center for Engineering and the Environment (AFCEE), to conduct a long-term monitoring (LTM) program for groundwater at the Tank Farms 1&3 Petroleum Source Removal Area of Concern (SRA) at the former Griffiss Air Force Base (AFB), New York. The LTM program was conducted in accordance with provisions of the Basic Contract No. F41624-03-D-8601 Delivery Order No. 0027. The purpose of the LTM program is to monitor the presence of contaminants of concern (COCs), assess the potential for migration of the COCs, statistically identify groundwater trends for the COCs, and establish an early warning system for assuring compliance with potential COC receptors.

Data evaluation and report preparation for the LTM program includes semi-annual summary updates and a more detailed annual report. The LTM program will also be reviewed periodically to revise sampling locations and/or sampling frequencies for optimal functioning. This semi-annual LTM report includes collection, analysis, and reporting of COCs for the following SRA from June 2002 through March 2008:

- Tank Farm 1 and 3 SRA SS-20 (New York State Department of Environmental Conservation [NYSDEC] Spill #9111733)

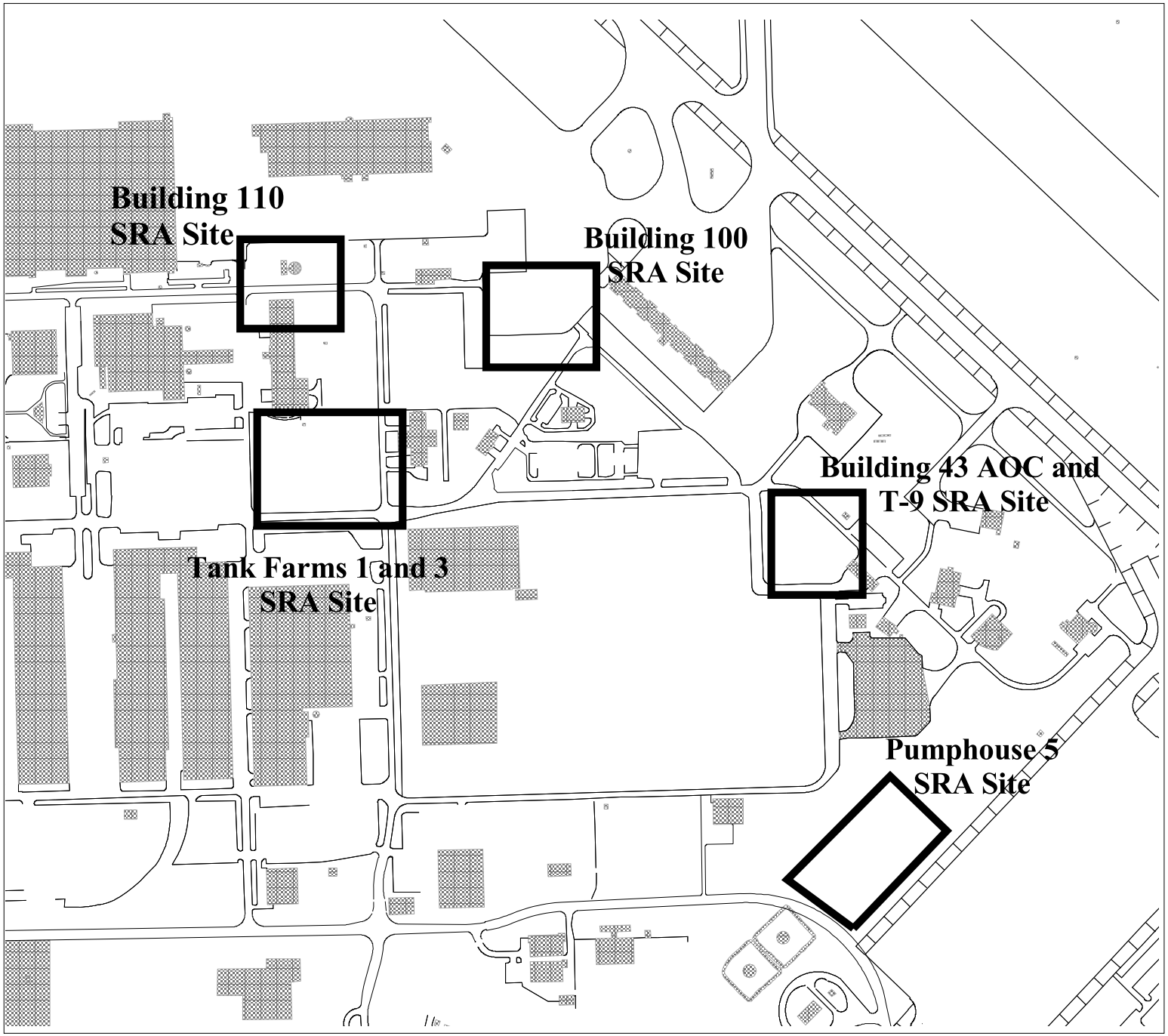
The locations of the Petroleum SRA can be reviewed in Figure 1-1. LTM was recommended by FPM and approved by NYSDEC by their approval of site-specific workplan and groundwater monitoring reports for Tank Farms 1 and 3 (FPM, November 2001).

As part of the performance based contract, it should be noted that the following sites were previously sampled under LTM, and were closed or proposed for closure.

- Building T-9 SRA SS-25 (NYSDEC Spill #9702173). Spill closed September 24, 2004
- Building 43 SRA ST-26 (NYSDEC Spill #9204543 and #9313076) proposed for closure, March 2005
- Building 110 SRA ST-36 (NYSDEC Spill #8603763). Spill closed September 29, 2004
- Building 771/Pumphouse 5 SRA ST-37 (NYSDEC Spill #8903144). Site closed October 20, 2004
- Building 100 SRA ST-51 (NYSDEC Spill #9704490). Spill closed September 29, 2004

Groundwater samples were collected from each of the sites listed and analyzed for the respective COCs as identified during previous investigations (e.g., volatile organic compounds [VOCs] and semivolatile organic compounds [SVOCs]). Both existing data and information from new sampling rounds are utilized for overall performance evaluation.

New wells were installed according to the protocol as described in the Field Sampling Plan (FSP) (FPM, August 2003). Reference is also made to the AFCEE Quality Assurance Project Plan (QAPP) Version 3.1 (AFCEE, 2001), prior to June 2006 and Version 4.0 (AFCEE, 2005) is



N

Legend

Road/Airfield

Demolished Building

Existing Building

200 0 200 Feet

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GRIFFISS AIR FORCE BASE
ROME, NEW YORK

Figure 1-1
Petroleum Source Removal Areas Location Map

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used currently, with project-specific variances. The QAPP together with the FSP form the Sampling and Analysis Plan (SAP).

1.1 Long-Term Monitoring Approach

1.1.1 Long-Term Monitoring Background

To illustrate how this LTM Program will operate, the following highlights the overall objectives, components, and constraints of the groundwater LTM Program.

The objectives of LTM are:

- To continue refining the conceptual site model (CSM) for groundwater flow so that the predictions regarding the fate and transport of COCs are accurate;
- To establish an early warning monitoring system for the protection of potential receptors prior to completion of exposure pathways;
- To evaluate COC degradation due to remedial action or natural attenuation processes; and
- To collect data that support attainment of spill closure.

Typical components of a groundwater LTM system include:

- One or more upgradient well(s) representative of background conditions; and
- LTM wells that track the COC migration or degradation trend.

Constraints associated with a groundwater LTM system include:

All monitoring wells must be screened in the same hydrogeologic unit as the COC plume or known/probable groundwater pathway from a potential source; and Downgradient LTM wells must be located to detect unexpected variations in groundwater quality as efficiently as possible (i.e., with respect to groundwater migration rates and downgradient flow direction).

Given the above objectives and constraints the design of an LTM system considers the following tasks:

1. Selecting water-level observation wells and water quality monitoring wells from existing monitoring wells and piezometers, or selecting locations for new wells, depending on the evaluation of existing data (i.e., well logs, water-level measurements, proximity to natural flow boundaries, trends and uncertainties in the existing data) and the specific intended and distinct role of that monitoring point;
2. Providing a statistical evaluation of water-level elevation data for groundwater flow direction, existing COC concentrations, and groundwater chemistry to predict long-term trends;

3. Identifying performance evaluation criteria (e.g., statistical tests), including appropriate analysis methods for evaluating data variations or closure attainment;
4. Identifying water quality sampling frequency at each monitoring point both for understanding the trends of COCs and/or their indicator analytes, and minimizing the costs and maximizing the benefits of the program;
5. Identifying physical and chemical parameters (e.g., transport and attenuation properties) for the COCs; and
6. Periodically assessing the LTM monitoring well network for addition of new monitoring wells or possible decommissioning of monitoring wells from the LTM program.

1.1.2 Purpose of LTM Program

Each site-specific LTM Work Plan has identified monitoring points that will best detect groundwater COCs that are known to exist at the Petroleum SRA, and track their transport over time to support a decision for either continued monitoring, remedial measures (i.e., free product recovery in those cases where free product is encountered), or spill closure. The LTM Program will use historic data and new information from annual and quarterly sampling rounds at specified existing and new monitoring wells.

2 ENVIRONMENTAL SETTING

2.1 PHYSIOGRAPHY AND TOPOGRAPHY

The former Griffiss AFB is located in the city of Rome in Oneida County, New York (refer to Figure 2-1). The former Base lies within the Mohawk Valley between the Appalachian plateau and the Adirondack Mountains. A rolling plateau northeast of the former Base reaches an elevation of 1300 feet above mean sea level (MSL). The New York State Barge Canal (NYSBC) and the Mohawk River valley south of the former Base lie below 430 feet above MSL. The topography across the former Base is relatively flat with elevations ranging from 435 feet above MSL in the southwest portion to 595 feet above MSL in the northwest portion of the former Base.

2.2 GEOLOGY

Unconsolidated sediments at the former Griffiss AFB consist primarily of glacial till with minor quantities of clay and sand and significant quantities of silt and gravel. The thickness of these sediments range from 12 feet in the northeast portion to more than 130 feet in the southern portion of the former Base. The average thickness of the unconsolidated sediments is 25 to 50 feet in the central portion and 100 to 130 feet in the south and southwest portions of the former Base. The bedrock beneath the former AFB generally dips from the northeast to the southwest and consists of Utica Shale, a gray and black carbonaceous unit with a high/medium organic content (Remedial Investigation (RI), Law Engineering and Environmental Services, Inc. (LAW), December 1996).

2.3 HYDROGEOLOGY

The shallow water table aquifer lies within the unconsolidated sediments, where depth to groundwater, during the December 1998 synoptic Base-wide water-level measurement of wells, ranged from just below the ground surface to approximately 57 feet below ground surface (bgs) in the southwest portion of the base and to 63 feet bgs in the northeast portion of the former Base (FPM, September 2000). Several surface water creeks act as discharge areas for shallow groundwater, and drainage culverts and sewers intercept surface water runoff.

A comprehensive description of regional and local geology, hydrogeology, lithology, and hydrology for the former Griffiss AFB was given in the RI (LAW, December 1996), and in the Supplemental Investigation (SI) prepared by Ecology and Environment, Inc. (E&E, July 1998). Detailed site descriptions and the hydrology for each Petroleum Source Removal Area are presented with each site-specific section.

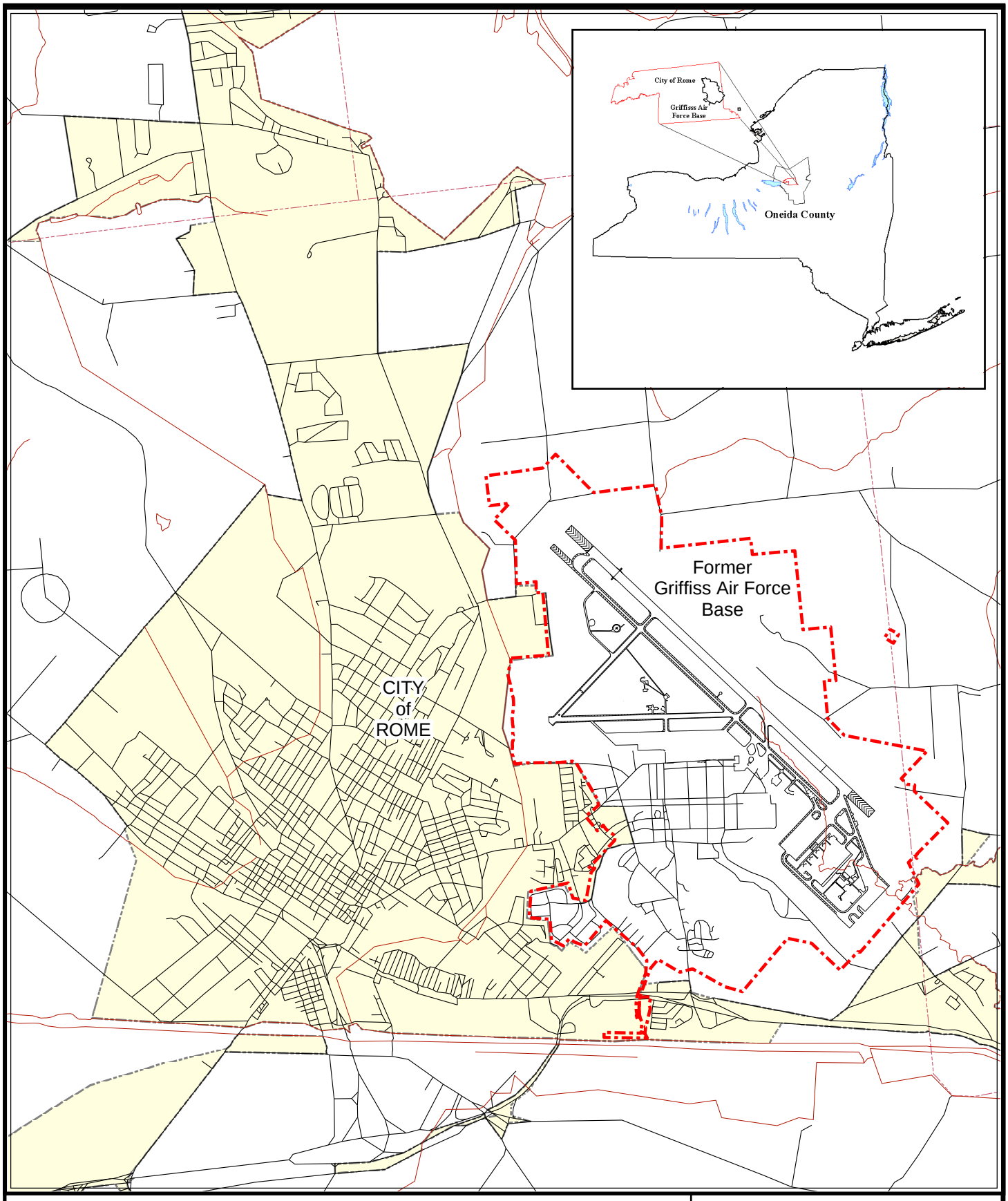

FIGURE 2-1
Base Location Map

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GRIFFISS AIR FORCE BASE
ROME,NEW YORK

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2.4 CLIMATE

The former Griffiss AFB experiences a continental climate characterized by warm, humid, moderately wet summers and cold winters with moderately heavy snowfalls. The mean annual precipitation is 45.6 inches, which includes the mean annual snowfall of 107 inches. The annual evapotranspiration rate is 23 inches. The average temperature during the winter season is 20 degrees Fahrenheit; temperatures during the spring, summer, and fall vary from 31 to 81 degrees Fahrenheit. The prevailing winds are from the southwest, with an average wind speed of 5 knots.

The former Griffiss AFB is located in a region prone to acid precipitation; the annual average pH of precipitation recorded for 1992 at the three closest stations ranged from 4.25 to 4.28. Fluctuations in pH have an inverse correlation to precipitation, such that lower pH levels correlate with higher amounts of precipitation (LAW, December 1996).

2.5 BIOLOGY

The former Griffiss AFB, covering 3,552 acres of property within the Erie-Ontario ecozone of the Great Lakes Physiographic Province, has been heavily disturbed from an ecological perspective. Although there are a few undisturbed communities within the former Base's boundary, the 1993 Inventory of Rare Plant Species and Significant Natural Communities identified six significant habitats of special concern occurring on the former Base (New York Natural Heritage Program, January 1994). None of these habitats occur adjacent to the Petroleum Source Removal Areas described in this report.

2.6 APPLICABLE OR RELEVANT AND APPROPRIATE REQUIREMENTS IDENTIFICATION

At the Petroleum SRA to be monitored under the LTM Program, the Applicable or Relevant and Appropriate Requirements (ARARs) and other criteria and guidelines to be considered include the NYSDEC Spill Technology and Remediation Series (STARS), Technical and Administrative Guidance Memorandum (TAGM): Determination of Soil Cleanup Objectives and Cleanup Levels, January 1994, NYSDEC Interim Procedures for Inactivation of Petroleum-Impacted Sites, January 1997, and NYSDEC Ambient Water Quality Standards and Guidance Values, June 1998.

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3 TANK FARMS 1 AND 3 SRA (IRP SITE SS-20, NYSDEC SPILL #9111733)

3.1 SITE LOCATION AND HISTORY

The Tank Farms 1 and 3 SRA is located in the central portion of the former Griffiss AFB, as shown in Figure 1-1. The site is a grass-covered area that is located southeast of Building 112 and is bounded by Brooks Road to the south, Otis Street to the east, and Moody Street to the west. The SRA encompasses the former fuel storage facilities for the following products: aviation gasoline (AVGAS), jet propulsion fuel grade 4 (JP-4), automotive gasoline (MOGAS), diesel fuel, fuel oil, and deicing fluid. The Tank Farms 1 and 3 site layout is shown in Figure 3-1.

Tank Farm 1 is the former location of eight 25,000-gallon underground storage tanks (USTs). The USTs are numerically identified as UST 114-1 through UST 114-8. The tanks originally contained AVGAS, then were used for diesel fuel, MOGAS, and finally fuel oil. Other former facilities associated with Tank Farm 1 include one 50,000-gallon aboveground storage tank (AST) for deicing fluid (AST 6045), one underground 50,000-gallon deicing fluid tank (UST 5885), one pumphouse (Building 114), one pump pit, separator tanks, and one water separator pit. The pumphouse was connected to a railroad car unloading stand with three outlets used to off-load fuel from railroad cars into the tanks (Tetra Tech, September 1994; E&E, December 1997). Open NYSDEC Spill #9111733 is associated with former USTs 114-1 through 114-8.

Tank Farm 3 is the former location of four 25,000-gallon USTs (UST 147-1 through -4) that contained JP-4. Other former facilities associated with Tank Farm 3 include two pumphouses (Buildings 147 and 165), one pump pit, separator tanks, one water separator pit, and three aboveground bulk fuel storage tanks (ASTs 161, 162, and 163). The former bulk fuel ASTs originally contained JP 4 but were later used to store fuel oil. Former AST 161 was 840,000 gallons in capacity and former ASTs 162 and 163 were both 420,000 gallons in capacity. Each bulk fuel AST was surrounded by a soil berm.

3.2 DESCRIPTION OF PREVIOUS SAMPLING AND INVESTIGATIONS

In November 1981, Base Fuels verified that 2 to 3 gallons per day of JP-4 leaked from eight valves at Tank Farm 3 for an indefinite period (LAW, February 1995).

In the fall of 1982, investigative soil borings associated with the construction of a steam line were installed to the south of Brooks Road and former Tank Farm 1, where free product was found floating above the water table in the area. In October 1983, the Base Civil Engineering Department installed and sampled well TF3-CE3, shown in Figure 3-1. The well was found to contain free product. When monitoring well TF3-CE3 was sampled again during the summer of 1984, no free product was detected.

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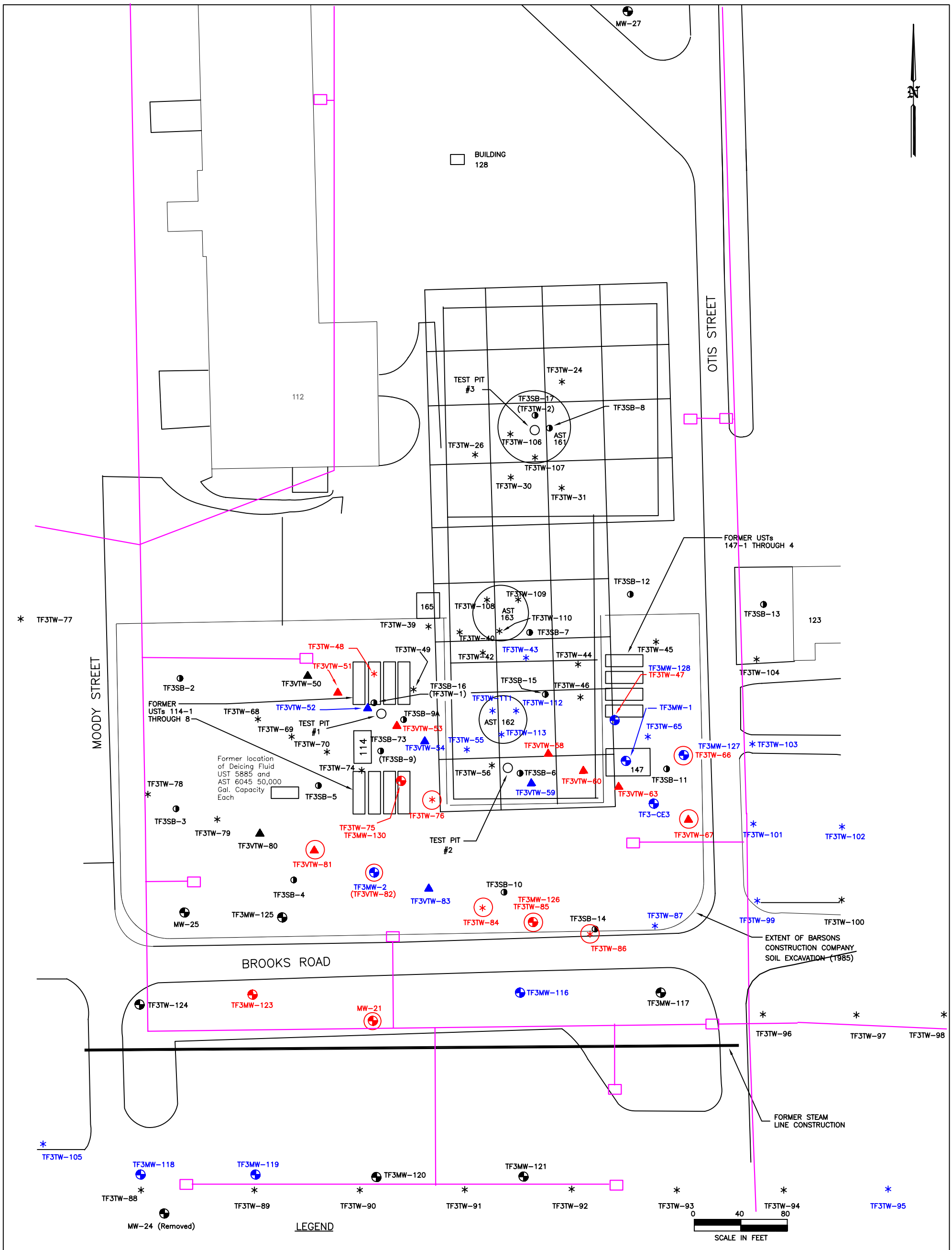

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FIGURE 3-1
TANK FARMS 1 & 3 SRA
SITE LAYOUT MAP

Drawn By: L.G. | Checked By: D.F. | Date: 1/14/03

In October 1983, the Base Civil Engineering Department installed and sampled well TF3-CE3, shown in Figure 3-1. The well was found to contain free product. When monitoring well TF3-CE3 was sampled again during the summer of 1984, no free product was detected.

In the summer of 1984, Roy F. Weston, Inc. installed 33 temporary wells and eight permanent wells. The Weston report hypothesized that the source of the fuel in the groundwater was potentially contributed by two sources: (1) numerous small spills and leaks from the Tank Farms, and (2) from a former truck maintenance shed that was located north of Building 3, where base personnel informed Weston that waste fuels were discharged to the subsurface via a drywell (Weston, November 1985). Review of the 1994 Environmental Baseline Survey (EBS) did not confirm information on drywells or a truck maintenance shed north of Building 3, prior to 1985. The Expanded Site Investigation (ESI) of Area of Interest (AOI) Site 58/101 detected minor SVOCs in surficial soils north of Building 3; however, the groundwater was not impacted (Tetra Tech, September 1994).

In November 1985, all ASTs and USTs associated with Tank Farms 1 and 3 were removed, with the exception of the bulk fuel ASTs (AST 161, 162, and 163). While underground piping was being cut and capped at Tank Farm 1, a 4-inch pipe was found to be full of AVGAS. While a similar action was being performed at Tank Farm 3, the contractor discovered 3 inches of fuel on the floor of Building 147 (Tank Farm 3 pumphouse) and fuel in a header pipe. Industrial Tank and Oil Company subsequently removed the fuel (1,200 gallons). There is no indication in the administrative records that endpoint sampling was performed following the removal of the ASTs and USTs.

In December 1985, Barsons Construction Company removed 60,000 cubic yards (c.y.) of contaminated soil and replaced it with clean fill.

In 1988, the bulk fuel ASTs (AST 161, 162, and 163) and associated underground facilities were removed, along with any contaminated soils. The soil berms surrounding the bulk fuel ASTs were used to fill the excavated area previously occupied by the removed contaminated soil and underground facilities. Additional cover soil was placed on top of the former berm material to bring the excavated area to grade.

In 1993 and 1994, monitoring wells TF3MW-21, -25, -27 and TF3-CE3 were sampled as part of the quarterly sampling program. The analytical results indicated no VOC or SVOC exceedances of the New York State (NYS) Groundwater Standards. No VOC, SVOC, or metal data were found to exist for wells TF3MW-22, -23, -24, -26, and -28. Based on the October 1998 well/piezometer inventory (E&E, January 1999), and visual inspection, these additional wells do not exist at the present time.

Groundwater observation wells TF3TW-1 and -2 were placed as close as practical to boring locations TF3SB-16 and -17, respectively, to identify the presence of free product. No free

product was observed in either temporary well. However, the boring logs and field notes from TF3TW-1 indicated flame ionization detector (FID) readings as high as 1,000 parts per million (ppm) near the surface of the water table (14 ft bgs) and sheen on all split-spoon samples. The field notes for TF3TW-2 indicated a maximum FID reading of 100 ppm at an interval from 4 to 6 ft bgs (vadose zone) and a slight sheen on all split-spoon samples, except the interval from 0 to 2 ft bgs.

In 1999 and 2000, FPM completed a Supplemental Study to fill data gaps and fully delineate groundwater contamination at the site (FPM, September 2000). A total of 96 soil borings were installed with 72 groundwater samples collected and analyzed using United States Environmental Protection Agency (USEPA) methods 8021 for VOCs and 8270 for SVOCs. In addition, groundwater samples were collected from existing monitoring wells TF3MW-1, TF3-CE3, and TF3MW-21 and newly installed TF3MW-2. These locations are shown in Figure 3-1.

In general, groundwater sample analysis showed numerous exceedances downgradient of USTs 114-1 through -8 (NYSDEC open Spill #9111733) and USTs 147-1 through -4. Except for minor exceedances at TF3TW-43 and -55, groundwater samples immediately downgradient from former Building 165, bulk fuel storage ASTs 161, 163, and 6045, and UST 5885 showed no groundwater exceedances.

In November 2001, monitoring wells TF3MW-116, -117, -118, -119, -120, -121, -123, -124, -125, -126, -127, -128, -129, and -130 were installed and developed prior to sampling. A source removal action in Fall 2002, at the Tank Farms 1 and 3 site, removed residual soil contamination that was identified during the previous soil boring activities and not removed during the Barson's excavation in 1985. Approximately 12,800 c.y. of soil was excavated from locations within the former bermed area and vicinity including the former building 147 footprint at Tank Farms site. Removal of the residual soil contamination continued into the saturated zone where contamination was located and stopped any additional leaching of contamination to groundwater from the vadose zone (Parsons, December 2003).

In December 2005, Oxygen Release Compound (ORC®) Advanced was injected into seventeen borings. Site utilities made injection impossible south of Brooks Road and ORC® socks were installed in existing monitoring wells instead. Five pounds of ORC® per foot were injected from 20 to 14 feet bgs. Injection took place in the source area of Tank Farms 1 & 3 as shown on Figure 3-1 and added to downgradient monitoring wells TF3MW-21, -116, -117, -119R, -121R and -123 by the use of ORC® socks in October 2005.

In summary, separate petroleum plumes may have originated from three locations including, USTs 114-1 through -8 and USTs 147-1 through -4, as well as the former truck maintenance shed north of Building 3, possibly in the vicinity of TF3MW-123 or -125. The dissolved groundwater plume appears to be well defined and to be naturally attenuating. Based on

observations at the site and based on the size and stability of the dissolved plume, residual free product has not been identified (FPM, February 2004).

3.3 LTM PLAN

Table 3-1 summarizes the original LTM sampling and analysis plan. The objectives of the Tank Farm 1 and 3 LTM program include the following:

- Monitor the groundwater to track plume migration.

Table 3-1
Tank Farms 1 and 3 Quarterly Sampling Analysis Summary

Site/ Sampling Locations	Screen Interval (ft. MSL)	Sampling Rationale	Target Analytes/ USEPA Method Numbers	Sampling Frequency
TF3-CE3	442-457	Downgradient, within plume	VOCs 8260 AFCEE QAPP 3.1 List	***Quarterly***
TF3MW-2	450-460	Downgradient, within plume		
TF3MW-21	445-465	Downgradient within plume		
TF3MW-25	444-464	Crossgradient	SVOCs 8270	
TF3MW-116	449-459	Downgradient within plume		
TF3MW-117	448-458	Crossgradient from plume	* Natural attenuation	
TF3MW-123	449-459	Downgradient within plume	parameters pH, temperature,	
TF3MW-124	449-459	Crossgradient from plume	redox potential, ferrous	
TF3MW-125	449-459	Downgradient	iron, and dissolved oxygen	
TF3MW-126	449-459	Downgradient within plume	will be measured in the	
TF3MW-127	450-460	Upgradient within plume	field.	
TF3MW-128	451-461	Upgradient within plume		
TF3MW-129	451-461	Upgradient from plume	Alkalinity, nitrate, sulfate,	
TF3MW-130	451-461	Upgradient within plume	sulfide	

3.4 Results

Eighteen sampling rounds were conducted at the Tank Farm 1 and 3 SRA site. In order to increase the readability of the report, all discussion of past sampling rounds has been eliminated. Only the sampling round relevant to this report (March 2008) is discussed in detail. Detailed descriptions of past sampling rounds can be found in a previously issued LTM report (FPM, August 2007). The discussion of site activities has been preserved to inform the reader of pertinent information. Sampling locations are identified on Figure 3-2. The detected groundwater analytical results are shown in Table 3-2, and total VOC detections and groundwater elevations are illustrated in Figures 3-3 and 3-4. Groundwater flow is to the south-southeast.

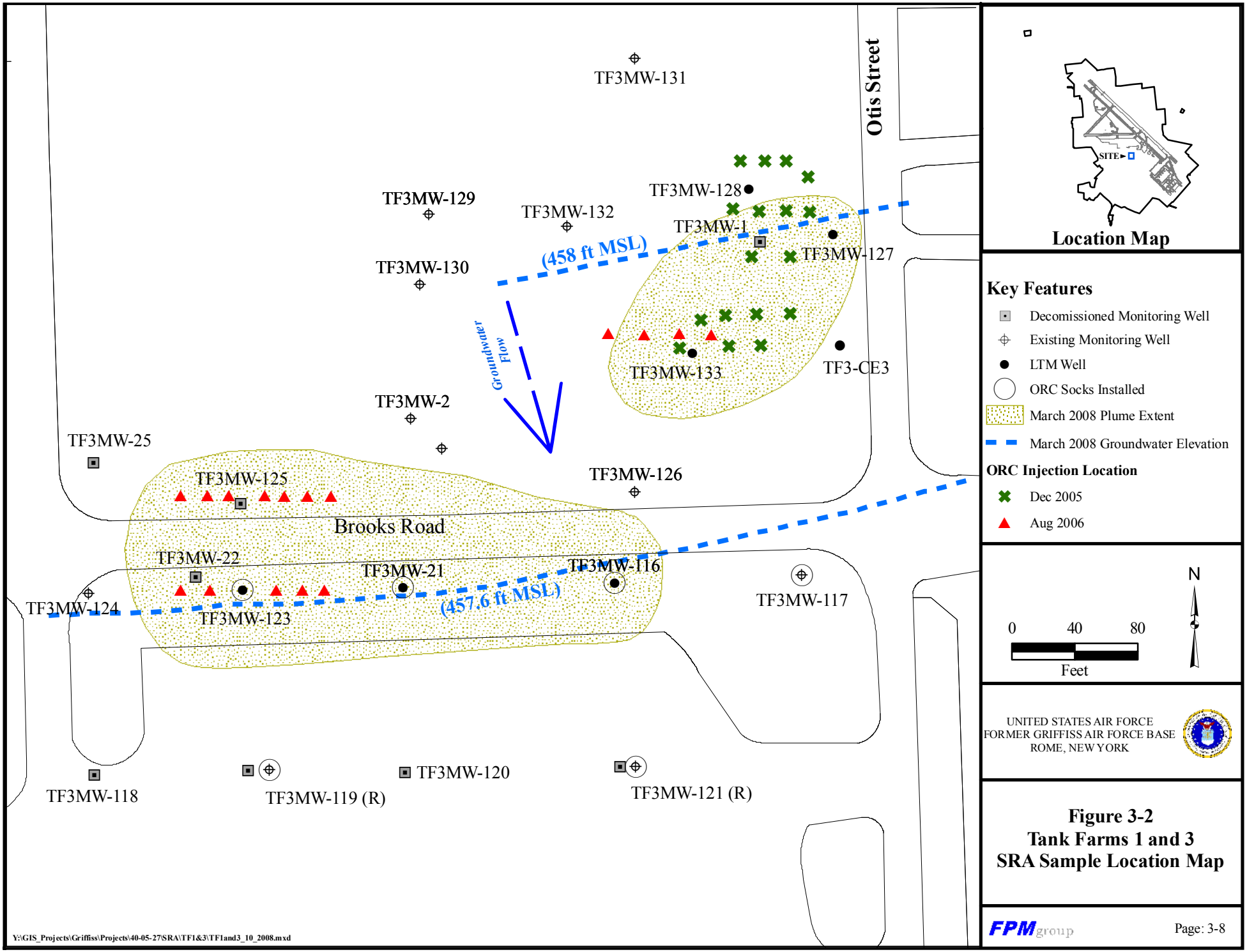
TF3MW-131
Otis Street
TF3MW-129
TF3MW-132
TF3MW-128
TF3MW-1
TF3MW-127
(458 ft MSL)
TF3MW-130
Groundwater Flow
TF3MW-133
TF3-CE3
TF3MW-2
TF3MW-25
TF3MW-125
TF3MW-126
Brooks Road
TF3MW-22
TF3MW-21
TF3MW-116
TF3MW-124
TF3MW-123
(457.6 ft MSL)
TF3MW-117
TF3MW-118
TF3MW-119 (R)
TF3MW-120
TF3MW-121 (R)
SITE
Location Map
Key Features
Decomissioned Monitoring Well
Existing Monitoring Well
LTM Well
ORC Socks Installed
March 2008 Plume Extent
March 2008 Groundwater Elevation
ORC Injection Location
Dec 2005
Aug 2006
N
0
40
80
Feet
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Figure 3-2
Tank Farms 1 and 3
SRA Sample Location Map
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Table 3-2
Tank Farms 1 and 3 Detected Analytical Results

Monitoring Well ID	NYSDEC	TF3-CE3																	
Sample ID	GW	TF3CE313AA	TF3CE312BB	TF3CE313CA	TF3CE312DA	TF3CE312EA	TF3CE313FA	TF3CE313GB	TF3CE313HB	TF3CE312IB	TF3CE313JB	TF3CE313KB	TF3CE313LB	TF3CE313MA	TF3CE312NA	TF3CE313OA	TF3CE313PA	TF3CE312RA	TF3CE312SA
Date of Collection	Standards[1]	2/19/02	6/19/02	9/13/02	12/12/02	3/12/03	6/20/03	9/12/03	12/12/2003	3/17/2004	6/17/2004	9/16/2004	1/3/2005	3/29/2005	3/28/2006	6/20/2006	9/26/2006	3/20/2007	3/20/2008
Sample Depth (ft)	(µg/L)	13	12	13	12	12	13	13	13	12	13	13	13	13	12	13	13	12	12
VOCs (ug/L)																			
1,1-dichloroethane	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	0.18 F	U
cis-1,2-dichloroethylene	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	0.11 F	U
n - butylbenzene	5	1.1	1.1	U	U	U	U	U	U	2.7	0.85 F	8.6	0.37 F	1.4	0.46 F	1.1	1.31	0.45 F	1.17
sec-butylbenzene	5	4.4	4.8	8.1	3.4 ♦	1.9	1.6	1.7	6.0	6.0	5.0	5.8	2.9	4.7	2.8	3.7	4.06	2.45 J	2.7
t-butylbenzene	5	0.85	1.1	1.2	0.83 ♦	0.39 F	U	0.34 F	0.79 F	0.71 F	0.69 F	0.78 F	0.46 F	0.7 F	0.50 F	0.59 F	0.85	0.54 F	0.63 F
chloroethane	5	U	U	0.21 F	U	U	U	U	U	U	U	U	U	0.22 F	U	0.29 F	U	U	U
chloromethane	5	U	U	0.24 F	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
ethylbenzene	5	0.21 F	U	0.37 F	U	U	U	U	U	0.28 F	U	0.22 F	U	U	U	U	U	U	U
isopropylbenzene	5	6.9	7.6	13	5.1 ♦	2.1	3.1	3.6	9.8	11	7.8	8.7	3.4	7.3	3.2	5.2	6.4	3.67 J	3.74
methyl ethyl ketone	5	U	U	U	U	1.6 UJ	U	U	U	U	U	U	U	U	U	U	U	U	U
methylene chloride	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	0.37 F	U
naphthalene	10	U	1.3	5.2	2 J	0.72 F	0.78 F	0.81 F	2.6	3.8	2.0	2.2	0.71 F	2.2	0.81 F	1.6 B	2.33	1.16	U
n-propylbenzene	5	8.1	5.8	11	4.8 ♦	2	2.3	2.1	10	13	8.4	U	3.4	8.6	3.4	5.8	6.68	3.16 J	5.38
trichloroethylene	5	1.7	0.98	1	2	2	1.4	3	1.6	1.3	1.1	1.2	1.7	0.95 F	1.7	1	1.13	U	1.15
Total VOCs	--	22.16	21.58	40.32	18.13	9.11	9.18	11.55	30.79	38.79	25.84	27.5	12.94	26.07	12.87	19.28	22.76	12.09	9.39
SVOCs (µg/L)																			
2-methylnaphthalene	--	6 F	U	U	U	U	2 F	4 F	3 F	U	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S
di-n-butyl phthalate	50	4 F	U	U	U	U	U	U	U	U	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S
Wet Chemistry Data (mg/L)																			
nitrate	10,000	0.36	0.087	0.32	N/A	0.38	0.71	0.60	0.56	0.63	0.46	0.52	0.17	0.4	N/S	N/S	N/S	N/S	N/S
sulfate	250,000	17.3	11.4 B	17.4	6.4	10.7 B	15	20.3	11.6	14.2	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S
sulfide	--	U	U	U	U	U	U	U	U	0.077 F	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S
total alkalinity	--	242	217	342	174	189	202	211	412	179 B	243	197	210	230	N/S	192	250	340	N/S
Field Parameters																			
dissolved iron (mg/L)	--	3.5	N/A	5.5	2.8	2.9	2.8	2.5	3.4	2.4	3	3	3.4	2.8	3	4	3.6	2.4	2.5
pH	--	7.11	7.88	6.68	7.12	7.09	7.29	7.32	6.61	7.32	7.22	7.74	7.93	7.01	6.84	7.46	7.29	7.59	6.84
specific conductance (µS/cm)	--	469	550	658	534	497	342	515	589	66	66	67	62	64	96.3	0.11	78.7	74.6	78
temperature (degrees C)	--	9.8	10.3	12.8	11.8	9.33	9.76	12.35	11.42	8.68	9.7	12	10.7	9.1	9.41	10.8	12.8	9.5	9.8
dissolved oxygen (mg/L)	--	4.23	1.05	1.62	2.78	4.62	3.12	6	2.95	3.3	3.5	4.03	5.6	6.41	2.49	6.05	4.77	10.54	5.92
oxidation reduction potential (mV)	--	-103	-127	-3	-114	-27	-122	-141	-110	-79	-108	-107	-88	50	-107	29	-26	-69	-97

Notes:

1 - Groundwater Standards are from Technical and Operational Guidance Series (TOGS) 1.1.1, June 1998. Amended in April 2000

-- Indicates no NYS GA Groundwater Standard

♦ - Indicates higher value detected in the sample duplicate or during the dilution phase.

B - The analyte was also detected in a blank.

F - Analyte was positively identified but the associated numerical value is below the reporting limit

N/A - Analyte was not analyzed during sampling

N/S- Analyte was not sampled.

R - The data is unusable due to deficiences in the ability to analyze the sample and meet QC criteria.

U - The analyte was analyzed for, but not detected. The associated numerical value is at or below the method detection limit.

UJ - The analyte was not detected above the RL. However the quantitation is an approximation.

Table 3-2
Tank Farms 1 and 3 Detected Analytical Results (continued)

Monitoring Well ID	NYSDEC GW Standards[1]	TF3MW-2									
Sample ID		**TF3M0214AA**	**TF3M0214BB**	**TF3M0219CA**	**TF3M0214DA**	**TF3M0214EA**	**TF3M0214FA**	**TF3M0215GB**	**TF3M0214HB**	**TF3M0214IB**	
Date of Collection		**2/26/02**	**6/19/02**	**9/13/02**	**12/12/02**	**3/12/03**	**6/23/03**	**9/12/03**	**12/12/2003**	**3/18/2004**	
Sample Depth (ft)	**(µg/L)**	**14**	**14**	**19**	**14**	**14**	**14**	**15**	**14**	**14**	
VOCs (ug/L)											
1,1,1-trichloroethane	5	U	0.68	0.31 F	0.41 F	0.54	0.35 F	U	U	U	
1,2,4-trimethylbenzene	5	0.71	U	U	0.24 F	U	0.24 F	0.39 F	U	U	
acetone	50	U	U	U	U	U	U	U	4.1 F	U	
chloroform	7	1.8	2	0.77	1.3	2.1	0.92	0.83	1.1 B	1	
ethylbenzene	5	0.54	0.3 F	0.24 F	0.21 F	U	0.3 F	U	U	U	
isopropylbenzene	5	0.66	U	0.58	0.38 F	U	0.29 F	0.29 F	0.43 F	U	
methyl ethyl ketone	5	U	U	U	U	1.6 UJ	U	U	U	U	
n-propylbenzene	5	0.39 F	U	0.31 F	0.23 F	U	0.23 F	U	U	U	
trichloroethylene	5	0.91	1	0.51	0.62	0.95	0.52 F	0.75 F	0.9 F	0.68 F	
m,p-xylene	5	0.45 F	U	U	U	U	U	U	U	U	
Total VOCs	--	5.46	3.98	2.72	3.39	3.59	2.85	0.83	5.43	1.68	
SVOCs (µg/L)											
Total SVOCs	--	0	0	0	0	0	0	0	0	0	
Wet Chemistry Data (mg/L)											
nitrate	10,000	1.3	1.1	1.5	N/A	1.3	0.8	0.94	1	1.3	
sulfate	250,000	27.2	17 B	13.1	9.1	17.6 B	16.5	15.7	15.3	18.1	
sulfide	--	U	U	U	U	U	U	U	U	U	
total alkalinity	--	144	120	148	87.2	132	148	158	222	218	
Field Parameters											
dissolved iron (mg/L)	--	0.3	N/A	0.8	0.8	0	0	0	0.4	0	
pH	--	7.35	7.58	7.26	7.17	7.49	7.26	7.42	6.44	7.4	
specific conductance (µS/cm)	--	326	360	544	469	277	287	426	459	48	
temperature (degrees C)	--	10.3	10.4	12.7	12.5	9.96	10.49	12.13	12.44	9.41	
dissolved oxygen (mg/L)	--	5.65	3.92	3.79	6.19	6.8	5.56	6.26	4.97	6.7	
oxidation reduction potential (mV)	--	-47	-19	-19	-35	226	-11	-73	78	52	

Well was not sampled after March 2004

Notes:

1 - Groundwater Standards are from Technical and Operational Guidance Series (TOGS) 1.1.1, June 1998. Amended in April 2000

-- Indicates no NYS GA Groundwater Standard

♦ - Indicates higher value detected in the sample duplicate or during the dilution phase.

B - The analyte was also detected in a blank.

F - Analyte was positively identified but the associated numerical value is below the reporting limit

N/A - Analyte was not analyzed during sampling

R - The data is unusable due to deficiences in the ability to analyze the sample and meet QC criteria.

U - The analyte was analyzed for, but not detected. The associated numerical value is at or below the method detection limit.

UJ - The analyte was not detected above the RL. However the quantitation is an approximation.

Table 3-2
Tank Farms 1 and 3 Detected Analytical Results (continued)

Monitoring Well ID	NYSDEC GW Standards[1]	TF3MW-21																		
Sample ID		TF3M2114AA	TF3M2114BB	TF3M2115CA	TF3M2113DA	TF3M2114EA	TF3M2114FA	TF3M2114GB	TF3M2114HB	TF3M2114IB	TF3M2114JB	TF3M2114KB	TF3M2114LB	TF3M2114MA	TF3M2114NA	TF3M2114OA	TF3M2114PA	TF3M2114RA	TF3M2114RA
Date of Collection		2/27/02	6/19/02	9/13/02	12/12/2002	3/12/2003	6/23/2003	9/11/2003	12/12/2003	3/18/2004	6/17/2004	9/13/2004	12/30/2004	3/29/2005	3/28/2006	6/20/2006	9/26/2006	3/21/2007	3/21/2008
Sample Depth (ft)	(µg/L)	14	14	15	13	14	14	14	14	14	14	14	14	14	14	14	14	14	14
VOCs (ug/L)																			
1,1-dichloroethane	5	0.33 F	0.25 F	U	0.23 F	0.24 F	U	U	U	U	U	U	U	U	U	U	U	U	U
1,1,2,2-tetrachloroethane	5	U	1.9	U	U	0.16 UJ	U	U	U	U	U	U	U	U	U	U	U	U	U
1,2-dibromo-3-chloropropane	0.04	U	U	2.1 J ♦	U	0.25 UJ	U	U	U	U	U	U	U	U	U	U	U	U	U
1,2,3-trichloropropane	0.04	U	1.1	U	U	0.16 UJ	U	U	U	U	U	U	U	U	U	U	U	U	U
1,2,4-trimethylbenzene	5	3.3	2.4 ♦	11	0.41 F	2.2 J ♦	0.9 F	9.6	1.8	U	1.9 F	U	U	U	0.56 F	U	1.04 ♦	U	U
1,3,5-trimethylbenzene	5	1.3	U	0.4 F	U	0.5 J ♦	U	2.6	U	U	U	U	U	U	U	U	U	U	U
benzene	1	0.75	0.55	0.56 ♦	U	0.15 UJ	U	U	U	U	U	U	U	U	U	U	0.23	U	U
n - butylbenzene	5	5.1	4.4	6.9 J ♦	4.3	0.22 UJ	U	8.1	U	3.8 F	3 F	2.5 F	1.8 F	2.2 F	2	4 ♦	3.2 ♦	0.96 F	U
sec-butylbenzene	5	6.4	6.4	9.8	4.8	4.7 J ♦	U	7.2	6.4	2.9 F	5.4	5.3	3.8 F	3.3 F	4.6	5.3 J	5.1	2.26 F	1.24
t-butylbenzene	5	1.8	1.6	2.3	1.2	1.3 J ♦	1.2 J	2	U	U	0.69 F	1.5 F	U	U	1.2	1.4 J	1.84 ♦	0.8 F	0.680 F
chloroethane	5	U	U	0.82 J ♦	0.55	0.16 UJ	0.44 F	U	U	U	U	U	U	U	U	1.3 J	U	U	U
chloromethane	5	U	U	0.85 ♦	0.33 F	0.26 J ♦	0.28 F	U	U	U	U	U	U	U	U	1 J	U	U	U
ethylbenzene	5	U	0.28 F	U	U	0.18 UJ	0.71 F	3.5	U	U	U	U	U	U	U	U	U	U	U
Hexachlorobutadiene	0.5	U	U	U	U	U	U	U	U	U	1.4 F	U	U	U	U	U	U	U	U
isopropylbenzene	5	34	28	50	36	25 J ♦	32 J	71	63	23	30	41	29	24	48 ♦	54 ♦	64	24.9	13.2
p-isopropyltoluene	5	8.9	7	10 ♦	4	4.4 J ♦	3.5 J	7.6	6.3	2.4 F	4.4 F	4.1 F	4 F	3.8 F	3.8	3.2 F ♦	4.1 ♦	1.1 F	1.04 F
methylene chloride	5	U	U	U	U	U	U	U	U	2.6 F	U	U	U	U	U	U	U	0.5 F	U
naphthalene	10	U	U	1.6 J ♦	0.78 J	0.21 UJ	0.7 F	2.2	2	U	1.1 F	1.2 F	1.2 F	1.6 F	2	1.8 J	3.26 ♦	1.58 F	U
n-propylbenzene	5	7.8	6.7	10	6.9	5.2 J ♦	5.2 J	12	11	4.2	6.7	8.8	6.7	5.4	8.4	8.1 ♦	10.8	4.18 F	2.52
tetrachloroethylene	5	U	U	U	U	0.18 UJ	U	U	U	U	U	U	U	U	U	U	U	U	U
trichloroethylene	5	U	U	U	U	0.17 UJ	U	U	U	U	U	U	U	U	U	U	U	U	U
toluene	5	0.31 F	U	0.48 F	U	0.16 UJ	U	U	U	U	U	2 F	U	U	U	U	0.24	U	U
m,p-xylene	5	4.4	4.5	8.2	1.2	1.9 J ♦	2.3 J	18	5.2	2 F	3.7 F	2.4 F	2.8 F	3.2 F	4.2	1.1 F	1.18	U	U
Total VOCs	--	74.39	65.08	108.11	60.7	40.5	42.03	143.8	95.7	40.9	58.29	68.8	49.3	43.5	74.76	81.2	94.99	36.28	18.68
SVOCs (µg/L)																			
2-methylnaphthalene	--	5 F	U	6	U	U	3 F	4 F	4 F	U	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S
acenapthene		U	U	U	U	U	U	U	2 F	U	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S
benzoic acid	--	U	U	U	U	13 UJ	17 R	18 R	U	U	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S
phenanthrene		U	U	U	U	U	U	U	2 F	U	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S
di-n-butyl phthalate	50	3 F	U	3	U	U	U	U	U	U	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S
2,4,5-trichlorophenol	1*	U	3 M	U	U	U	U	U	U	U	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S
2,4,6 - trichlorophenol	1*	U	4 M	U	U	U	U	U	U	U	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S
2,4-dichlorophenol	1*	U	5 M	U	U	U	U	U	U	U	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S
2,4-dinitrophenol	1*	U	13 M	U	U	11 UJ	U	U	U	U	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S
4,6-dinitro-2-methylphenol	1*	U	18 M	U	U	U	U	U	U	U	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S
4 - nitrophenol	1*	U	4 M	U	U	U	U	U	U	U	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S
Total SVOCs	--	8 F	0	9	0	0	3F	4 F	8 F	0	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S
Wet Chemistry Data (mg/L)																			
nitrate	10000	U	U	U	U	U	U	U	U	U	U	U	U	U	N/S	N/S	N/S	N/S	N/S
sulfate	250000	4	9	3.7 B	4.5	10.5 B ♦	34.9	8.4	6.9	10.9	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S
sulfide	--	U	U	U	U	U	U	U	U	U	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S
total alkalinity	--	233	185	210 ♦	158	178	182	221	456	215	210	187	174	166	N/S	147	240	190	N/S
Field Parameters																			
dissolved iron (mg/L)	--	3.8	N/A	3.2	2	1.9	1.9	1.6	2.4	1.6	2.4	3.2	3.6	3.6	3.8	3.7	2.8	1.9	3.4
pH	--	7.26	8.19	6.92	7.09	9.95	7.36	7.43	8.99	7.41	6.92	6.98	6.73	7.83	7.58	7.26	7.27	7.82	7.36
specific conductance (µS/cm)	--	591	665	940	524	443	749	898	979	62	60	60	68	92.8	114	89.2	0.12	69.5	84.2
temperature (degrees C)	--	10.5	10.5	12.8	12.3	10.1	10.4	12.05	12.79	10.11	10.6	13.2	12.5	10.7	11.1	11.4	14.1	10.6	10.83
dissolved oxygen (mg/L)	--	3.26	1.08	1.54	6.99	4.24	4.28	4.35	8.13	4.1	2.4	5.2	8.19	7.06	3.66	7.68	3.34	1.45	0.53
oxidation reduction potential (mV)	--	-130	-139	108	-101	-121	-156	-149	-144	-90	-95	-107	-133	-90	-27	-97	-116	-119	-124

Notes:

1 - Groundwater Standards are from Technical and Operational Guidance Series (TOGS) 1.1.1, June 1998. Amended in April 2000

* - Sum of total phenolic compounds may not exceed 1 (µg/L)

♦ - Indicates higher value detected in the sample duplicate or during the dilution phase.

-- Indicates no NYS GA Groundwater Standard

B - The analyte was also detected in a blank.

F - Analyte was positively identified but the associated numerical value is below the reporting limit

M - Matrix effect present

N/A - Analyte was not analyzed during sampling

N/S- Analyte was not sampled.

R - The data is unusable due to deficiences in the ability to analyze the sample and meet QC criteria.

U - The analyte was analyzed for, but not detected. The associated numerical value is at or below the method detection limit.

Table 3-2
Tank Farms 1 and 3 Detected Analytical Results (continued)

Monitoring Well ID	**NYSDEC**	**TF3MW-25**							
Sample ID	**GW**	**TF3M2513AA**	**TF3M2513BB**	**TF3M2514CA**	**TF3M2512DA**	**TF3M2513EA**	**TF3M2513FA**	**TF3M2513GB**	
Date of Collection	**Standards[1]**	**2/26/02**	**6/19/02**	**9/13/02**	**12/12/2002**	**3/12/2003**	**6/20/2003**	**9/11/2003**	
Sample Depth (ft)	**(µg/L)**	**13**	**13**	**14**	**12**	**13**	**13**	**14**	
VOCs (ug/L)									
acetone	50	U	U	U	U	U	U	2.4 F	
t-butylbenzene	5	1.8	U	U	U	U	U	U	
bromomethane	5	U	U	U	U	0.19 UJ	U	U	
chloroform	7	1.2	1.2	1.1	0.97	1.1	0.61	0.63	
ethylbenzene	5	0.23 F	U	U	U	U	U	U	
tetrachloroethylene	5	0.29 F	0.27 F	0.33 F	0.28 F	0.31 F	U	0.29 F	
trichloroethylene	5	0.4 F	0.35 F	0.38 F	0.38 F	0.35 F	U	0.31 F	
toluene	5	U	U	U	U	U	U	U	
m,p-xylene	5	U	U	U	U	U	U	U	
Total VOCs	--	3	1.2	1.1	0.97	1.1	0.61	3.94	
SVOCs (µg/L)									
benzoic acid	--	U	U	U	U	13 UJ	17 R	18 R	
isophorone	50	U	U	U	U	U	1 R	U	
2,4-dinitrophenol	1*	U	U	U	U	11 UJ	U	U	
Total SVOCs	--	0	0	0	0	0	0	0	
Wet Chemistry Data (mg/L)									
nitrate	10000	1	0.83	0.85	N/A	1.5	0.92	0.7	
sulfate	250000	27.9	17.9 B	178 B	7.7	16.1 B	17.9	17.4	
sulfide	--	U	U	U	U	U	U	U	
total alkalinity	--	160	122	148	106	131	140	139	
Field Parameters									
Dissolved Iron (mg/L)	--	0.5	N/A	0.6	0.8	0.1	1.8	N/S	
pH	--	7.38	7.94	7.1	7.1	7.06	7.28	N/S	
Specific Conductance (µS/cm)	--	483	573	876	506	385	503	N/S	
Temperature (degrees C)	--	10.3	10.4	13.2	12.5	10.14	10.15	N/S	
Dissolved Oxygen (mg/L)	--	4.35	2.76	3.12	3.89	9.07	4.45	N/S	
Oxidation Reduction Potential (mV)	--	-77	-101	-22	-88	235	-108	N/S	

Decomissioned well not sampled after September 2003

Notes:

1 - Groundwater Standards are from Technical and Operational Guidance Series (TOGS) 1.1.1, June 1998. Amended in April 2000

* - Sum of total phenolic compounds may not exceed 1 (µg/L)

♦ - Indicates higher value detected in the sample duplicate or during the dilution phase.

-- Indicates no NYS GA Groundwater Standard

B - The analyte was also detected in a blank.

F - Analyte was positively identified but the associated numerical value is below the reporting limit

M - Matrix effect present

N/A - Analyte was not analyzed during sampling

R - The data is unusable due to deficiences in the ability to analyze the sample and meet QC criteria.

U - The analyte was analyzed for, but not detected. The associated numerical value is at or below the method detection limit.

Table 3-2
Tank Farms 1 and 3 Detected Analytical Results (continued)

Monitoring Well ID	NYSDEC	TF3MW-116																			
Sample ID	GW	TF3M11613AA	TF3M11613AA	TF3M11613BB	TF3M11614CA	TF3M11613DA	TF3M11613EA	TF3M11613FA	TF3M11614GB	TF3M11613HB	TF3M11613IB	TF3M11613JB	TF3M11613KB	TF3M11613LB	TF3M11613MA	TF3M11613NA	TF3M11614OA	TF3M11614PA	TF3M11613RA	TF3M11613SA
Date of Collection	Standards[1]	12/13/01	2/27/02	6/18/02	9/13/02	12/19/02	3/12/03	6/23/03	9/12/2003	12/12/2003	3/17/2004	6/17/2004	9/13/2004	12/30/2004	3/29/2005	3/28/2006	6/20/2006	9/26/2006	3/20/2007	3/21/2008
Sample Depth (ft)	(µg/L)	13	13	13	14	13	13	13		13	13	13	16	13	13	13	14	14	13	13
VOCs (ug/L)																				
1,2,4-trimethylbenzene	5	U	U	U	U	U	U	U	U	U	U	0.26 F	UM	U	U	U	U	U	U	U
1,2-dichloropropane	1	U	0.82	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
p-isopropyltoluene	5	U	U	U	0.65	0.38 F	0.22 F	U	U	U	U	U	U	U	U	U	U	U	U	U
sec-butylbenzene	5	10	8.1 ♦	7.3	10	10	4.1	7.9	3.1 ♦	3.5 ♦	4.9 ♦	6.5	13 M	14	8 M	8.7	4.5	4.03	4.44 J	7.79
t-butylbenzene	5	2.1	1.5 ♦	2.2	2.1	2.1	1.2	1.7 J	0.86 ♦	1.2 ♦	1.8 ♦	1.9	2.8 M	2.3	1.8 J	1.6	1.5	1.54	1.27	2.03
cis-1,2-dichloroethylene	5	U	0.26 F	U	U	U	U	U	U	0.24 F	U	U	U	U	U	U	U	U	U	U
chloroethane	5	U	U	U	U	U	U	U	U	U	U	U	U	U	0.36 F	U	0.54 F	U	U	U
ethylbenzene	5	U	U	U	U	U	U	U	U	U	U	0.24 F	U	0.21 F	U	U	U	U	U	U
isopropylbenzene	5	15	7.9 ♦	12	6.3	14	4.9	9	2.8 ♦	5.8 ♦	9.4 ♦	14	22	18	9.4 M	9.9	5.8	7.44	5.55 J	10.7
n - butylbenzene	5	3.8	3.6	4.4	7.8	3.8	U	3.1 J	2 ♦	1.5 ♦	1.8 ♦	1.5	3.6 M	3.8	3.3 J	4.2	2	1.8	1.26 J	1.59
methylene chloride	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	0.37 F	U
methyl ethyl ketone	5	U	U	U	U	U	1.6 UJ	U	U	U	U	U			U	U	U	U	U	U
n-propylbenzene	5	8.3	10 ♦	11	9.5	6.8	4.6	9.4	2.7 ♦	3.7 ♦	6 ♦	6.8	16	18	9.3 M	4.4	4.4	4.18	3.36 J	8.17
toluene	5	U	U	U	0.22 F	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,2 - dichloropropane	1	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
napthalene	10	U	U	U	U	U	U	U	U	U	U	U	U	U	0.21 F	U	U	U	0.7 F	U
Total VOCs	--	39.2	32.18	36.9	36.57	37.08	15.02	31.1	11.46	15.94	23.9	31.2	57.6	56.31	32.37	33.2	18.79	18.99	16.95	30.28
SVOCs (µg/L)																				
2-methylnaphthalene	--	8	10	11	4	11	10	3	10	7 F ♦	6 F ♦	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S
2,4-dichlorophenol	1*	U	U	5 M	U	U	U	U	U	U	U	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S
2,4-dinitrophenol	1*	U	U	13 M	U	U	11 UJ	U	U	U	U	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S
2,4,5-trichlorophenol	1*	U	U	3 M	U	U	U	U	U	U	U	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S
4,6-dinitro-2-methylphenol	1*	U	U	18 M	U	U	U	U	U	U	U	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S
4-nitrophenol	1*	U	U	4 M	U	U	U	U	U	U	U	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S
2,4,6-trichlorophenol	1*	U	U	4 M	U	U	U	U	U	U	U	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S
napthalene	10	U	U	U	U	U	U	4	U	U	U	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S
phenanthrene	50	U	U	U	U	U	U	2	U	U	U	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S
pyrene	50	U	U	U	U	U	U	2	U	U	U	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S
di-n-octyl phthalate	50	U	U	3 F	U	U	U	U	U	U	U	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S
Total SVOCs	--	8	10	14	4	11	10	11	10	7	6	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S
Wet Chemistry Data (mg/L)																				
nitrate	10000	N/A	U	U	U	U	0.056	U	U	U	0.1 ♦	0.052	U	0.31	U	N/S	N/S	N/S	N/S	N/S
sulfate	250000	N/A	U	11.1	2.9 B	7.9	11.4 B	U	13.2	21.6 ♦	10.1	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S
sulfide	--	N/A	U	U	U	U	U	U	U	U	0.091 F ♦	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S
total alkalinity	--	N/A	232 ♦	215	252	181	260	252	227 ♦	487	161 B ♦	222	191	224 ♦	201	N/S	178	250	250	N/S
Field Parameters																				
dissolved iron (mg/L)	--	N/A	6	N/A	6.8	3.5	2.4	5.6	2.8	N/A	4.4	5	5	4.2	1.8	3.2	4.5	3.2	4	2.6
pH	--	7.5	7.05	7.96	6.91	6.92	9.9	7.09	6.85	8.78	6.74	6.8	6.65	6.49	8	7.4	7.02	7.3	47.57	7.27
specific conductance (µS/cm)	--	1020	437	668	821	674	471	519	582	767	66	83	79	63	90	86.7	0.169	140	88.3	94.9
temperature (degrees C)	--	12.91	10.5	10.7	13.1	12.5	10.3	10.78	12.22	12.9	9.38	10.4	13.1	12.2	10.2	10.6	11	14.1	10.2	10.18
dissolved oxygen (mg/L)	--	5.06	3.55	0.62	1.16	5.55	3.71	4.46	5.24	4.36	3.5	3.9	2.65	7.29	6.78	3.19	6.82	0.7	0	9.73
oxidation reduction potential (mV)	--	-124	-117	-135	-16	-105	-120	-142	-136	-135	-63	-99	-106	-131	-113	-72	-92	-122	-109	-123

Notes:

1 - Groundwater Standards are from Technical and Operational Guidance Series (TOGS) 1.1.1, June 1998. Amended in April 2000

♦ - Indicates higher value detected in the sample duplicate or during the dilution phase.

* - Sum of total phenolic compounds may not exceed 1 (µg/L)

-- Indicates no NYS GA Groundwater Standard

B - The analyte was also detected in a blank.

F - Analyte was positively identified but the associated numerical value is below the reporting limit

M - Matrix effect present

N/A - Analyte was not analyzed during sampling

N/S- Analyte was not sampled.

R - The data is unusable due to deficiences in the ability to analyze the sample and meet QC criteria.

U - The analyte was analyzed for, but not detected. The associated numerical value is at or below the method detection limit.

Table 3-2
Tank Farms 1 and 3 Detected Analytical Results (continued)

Monitoring Well ID	NYSDEC	TF3MW-117																			
Sample ID	GW	TF3M11713AA	TF3M11713AA	TF3M11713BB	TF3M11713CA	TF3M11712DA	TF3M11713EA	TF3M11713FA	TF3M11713GB	TF3M11713HB	TF3M11713IB	TF3M11713JB	TF3M11713KB	TF3M11713LB	TF3M11713MA	TF3M11713NA	TF3M11713OA	TF3M11713PA	TF3M11713RA	TF3M11710SA
Date of Collection	Standards[1]	12/13/01	2/27/02	6/18/02	9/13/02	12/12/2002	3/12/03	6/20/03	9/12/2003	12/12/2003	3/18/2004	6/17/2004	9/13/2004	12/30/2004	3/29/2005	3/28/2006	6/20/2006	9/26/2006	3/20/2007	3/21/2008
Sample Depth (ft)	(µg/L)	13	13	13	13	12	13	13	13	13	13	13	13	13	13	13	13	14	13	10
VOCs (ug/L)																				
1,1,2 -trichloroethane	1	U	U	0.42 M	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,2-dibromo-3-chloropropane	5	U	U	U	U	U	0.25 UJ	U	U	U	U	U	U	U	U	U	U	U	U	U
benzene	1	0.29 F	0.35 F	U	0.28 F	0.31 F	U	0.28	0.24 F	U	0.26 F	U	U	U	U	U	U	0.12	0.11 F	U
bromomethane	5	U	U	U	U	U	0.19 UJ	U	U	U	U	U	U	U	U	U	U	U	U	U
chloroethane	5	U	U	U	U	U	U	U	U	U	U	U	U	U	0.38 F	U	0.41 F	U	U	U
chloromethane	5	U	U	U	U	0.21 F	U	U	U	U	U	U	U	U	0.49 F	U	0.4 F	U	U	U
sec-butylbenzene	5	1.9	1.6	1.4	2.8	1.9	U	6.1	2.4	5.6	2.1	4.8	6.4	U	U	0.95 F	0.86 F	0.55	0.93 F	U
t-butylbenzene	5	1	2.5	2.6	2	2.1	2.2	2	2.7	1.9	2.8	2.9	2.8	U	2	2.2	1.8	1.36	2.14	1.72
methylene chloride	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	0.3 F	U
cis-1,2-dichloroethylene	5	0.4 F	0.29 F	U	U	U	0.36 F	0.22 F	U	0.48 F	0.33 F	U	U	U	U	U	0.34 F	0.2	0.15 F	0.19 F
isopropylbenzene	5	2	0.52	1.1	4.7	1.1	0.8	7.7	2.9	6.1	2.9	6.4	12	5.9	3.9	1.1	0.73 F	0.15	2.19	0.78 F
p-isopropyltoluene	5	1.8	4.5	U	U	U	3.8	U	5.5	U	5.2	6	5.5	U	U	U	U	U	U	U
n-butylbenzene	5	U	U	U	U	U	U	U	U	U	U	U	U	0.48 F	U	U	U	U	U	U
n-propylbenzene	5	0.32 F	U	U	0.52	U	U	0.83 F	0.37 F	2.5	0.39 F	2.5	5.2	3.7	0.66 F	U	U	U	U	U
Total VOCs	--	7.71	9.76	5.1	10.3	5.62	7.16	17.13	14.11	16.58	13.98	22.6	31.9	10.08	7.43	4.25	4.95	2.38	5.82	2.69
SVOCs (µg/L)																				
2,4-dichlorophenol	1*	U	U	4 M	U	U	U	U	U	U	U	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S
2,4-dinitrophenol	1*	U	U	12 M	U	U	11UJ	U	U	U	U	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S
2,4,5-trichlorophenol	1*	U	U	3 M	U	U	U	U	U	U	U	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S
4,6-dinitro-2-methylphenol	1*	U	U	16 M	U	U	U	U	U	U	U	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S
4-nitrophenol	1*	U	U	3 M	U	U	U	U	U	U	U	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S
2,4,6-trichlorophenol	1*	U	U	4 M	U	U	U	U	U	U	U	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S
benzoic acid	--	U	U	U	U	U	13 UJ	17 R	7 R	U	U	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S
Wet Chemistry Data (mg/L)																				
nitrate	10000	N/A	0.064	U	U	U	U	U	U	0.061	0.11	0.069	2.5	0.67	0.29	N/S	N/S	N/S	N/S	N/S
sulfate	250000	N/A	U	7.7	6.2 B	3.2	5.8 B	83.4	U	6.3	1.3	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S
sulfide	--	N/A	U	U	U	U	U	U	U	U	U	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S
total alkalinity	--	N/A	298	274	312	206	251	264	307	445	336	316	269	244	237	N/S	224	280	200	N/S
Field Parameters																				
dissolved iron (mg/L)	--	N/A	6	N/A	6.2	5.6	4.6	4.9	4	3.3	4.2	4.4	3.6	3.2	3.5	3	4.2	4	3.8	3.2
pH	--	7.57	6.87	7.82	6.92	6.84	9.58	6.93	6.98	8.63	6.82	6.64	6.78	6.45	7.87	7.41	7.06	7.14	6.4	7.18
specific conductance (µS/cm)	--	1340	1190	1840	1620	1330	158	209	180	179	13	95	82	80	98	133	14	16	78.4	0.122
temperature (degrees C)	--	13.71	10	11	14.8	13.4	9.5	10.72	14.03	13.88	8.81	10.7	15	12	8.8	9.5	11.7	15.7	9.4	8.76
dissolved oxygen (mg/L)	--	4.31	4.19	6.93	1.39	3.55	5.35	4.13	5.53	6.71	4.9	2.5	4.42	9.22	5.46	4.78	7.47	0.51	3.05	1.12
oxidation reduction potential (mV)	--	-93	-98	-123	88	-102	-102	-119	-141	-112	-68	-53	-97	-122	-94	-10	-85	-113	-70	-96

Notes:

1 - Groundwater Standards are from Technical and Operational Guidance Series (TOGS) 1.1.1, June 1998. Amended in April 2000

-- Indicates no NYS GA Groundwater Standard

* - Sum of total phenolic compounds may not exceed 1 (µg/L)

B - The analyte was also detected in a blank.

F - Analyte was positively identified but the associated numerical value is below the reporting limit

N/A - Analyte was not analyzed during sampling

N/S- Analyte was not sampled.

M - Matrix effect present

R - The data is unusable due to deficiences in the ability to analyze the sample and meet QC criteria.

U - The analyte was analyzed for, but not detected. The associated numerical value is at or below the method detection limit.

UJ - The analyte was not detected above the RL. However the quantitation is an approximation.

Table 3-2
Tank Farms 1 and 3 Detected Analytical Results (continued)
Decommissioned Monitoring Wells (November 2001) Including Replacement Wells (September 2004)

Monitoring Well ID	NYSDEC	TF3MW-118			TF3MW-119			TF3MW-119R										TF3MW-120			TF3MW-121			TF3MW-121R							
Sample ID	GW	TF3M11810AA	TF3M11810AA		FF3M11913AA	TF3M11913AA		TF3M119R12KB	TF3M119R12LB	TF3M119R13MA	TF3M119R12NA	TF3M119R12OA	TF3M119R12PA	TF3M119R11RA	TF3M119R11RA	TF3M12010AA	TF3M12010AA		TF3M12110AA	TF3M12110AA		TF3M121R12KB	TF3M121R12LB	TF3M121R12MA	TF3M121R12NA	TF3M121R12OA	TF3M121R12PA	TF3M121R11RA	TF3M121R11RA
Date of Collection	Standards*	12/13/2001	2/27/2002		12/13/2001	2/27/2002		9/13/2004	12/30/2004	3/29/2005	3/28/2006	6/20/2006	9/26/2006	3/27/2007	4/8/2008	12/13/2001	2/27/2002		12/20/2001	2/27/2002		9/13/2004	12/30/2004	3/29/2005	3/28/2006	6/20/2006	9/26/2006	3/27/2007	3/20/2008
Sample Depth (ft)	(µg/L)	10	10		13	13		12	12	13	12	12	12	11	11	11	11		11	11		12	12	12	12	12	12	11	11
VOCs (ug/L)																													
1,1-dichloroethane	5	U	U		U	U		U	U	U	U	U	U	U	U	U	U		U	0.23 F		U	U	U	U	U	U	U	U
1,2,4-trimethylbenzene	5	U	U		U	U		U	U	U	U	U	U	U	U	4.1	U		U	1.4		U	U	U	U	U	U	U	U
1,3,5-trimethylbenzene	5	U	U		U	U		U	U	U	U	U	U	2.85 F	U	1.2	U		U	0.54		U	U	U	U	U	U	U	U
t-butylbenzene	5	0.6 F	0.54		1.2	0.41 F		1.4 F	U	U	0.5 F ♦	0.5 F ♦	U	0.34 F	U	0.3 F	U		U	0.43 F		U	U	U	U	U	U	0.13 F	U
ethylbenzene	5	U	U		U	U		U	U	U	U	U	U	U	U	0.56 F	U		U	U		U	U	U	U	U	U	U	U
isopropylbenzene	5	6.8	0.21 F		2.3	8.5		6.3	U	U	U	U	U	U	U	U	U		U	U		U	U	U	U	U	U	U	U
n-butylbenzene	5	U	U		0.53 F	U		U	U	U	U	U	U	U	U	U	U		U	U		U	U	U	U	U	U	U	U
sec-butylbenzene	5	0.36 F	0.28 F		1.4	0.43 F		1.9 F	U	U	U	U	U	U	U	U	U		U	U		U	U	U	U	U	U	U	U
n-propylbenzene	5	0.33 F	U		0.24 F	0.57		U	U	U	U	U	U	U	U	0.24 F	U		U	U		U	U	U	U	U	U	U	U
naphthalene	10	U	U		U	U		U	U	U	U	0.2 F ♦	U	U	U	U	U		U	U		U	U	U	U	U	U	U	U
acetone	50	U	U		U	U		U	U	U	30 B	U	U	U	U	U	U		U	U		5.1 F	U	U	U	U	U	U	U
chlorobenzene	5	U	U		U	U		1.8 F	U	U	U	U	U	U	U	U	U		U	U		U	U	U	U	U	U	U	U
chloroethane	5	U	U		U	U		U	U	U	U	0.7 F	U	U	U	U	U		U	U		U	U	U	U	U	U	U	U
chloroform	5	U	U		U	U		U	U	U	U	U	U	U	U	U	0.29 F		0.49 F	U		0.29 F	U	U	U	U	U	U	U
cis-1,2-dichloroethylene	5	U	U		U	U		2.9 F	U	U	U	U	U	U	U	U	U		U	U		U	U	U	U	U	U	U	U
toluene	5	U	U		U	U		U	U	U	U	U	U	U	U	3.8	U		U	U		U	U	U	U	U	U	U	U
trichloroethylene	5	U	0.44 F		0.31 F	U		U	U	U	0.38 F	0.26 F	1.2	0.65 F	U	U	2.8		2.5	U		2.6	1.8	1.6	1.5	1.6	1.2	0.88 F	1.18
o-xylene	5	U	U		U	U		U	U	U	U	U	U	U	U	2.1	U		U	U		U	U	U	U	U	U	U	U
m,p,-xylene	5	U	U		U	U		U	U	U	U	U	U	U	U	3.8	U		U	0.46 F		U	U	U	U	U	U	U	U
Total VOCs		8.09	1.47		5.98	9.91		14.3	0	0	U	1.67	1.2	3.84	0	16.1	3.09		2.99	3.06		7.99	1.8	1.6	1.5	1.6	1.2	1.01	0
SVOCs (µg/L)																													
4-nitrophenol		U	U		U	U		U	U	U	U	U	U	N/S	N/S	U	U		U	U		N/S	N/S	U	U	U	U	N/S	N/S
anthracene	50	U	U		7 J	U		N/S	N/S	U	U	U	U	N/S	N/S	U	U		U	U		N/S	N/S	U	U	U	U	N/S	N/S
acenapthene	20	U	U		U	U		U	U	U	U	U	0.56	N/S	N/S	U	U		U	U		N/S	N/S	U	U	U	U	N/S	N/S
bis (2-chloroisopropyl) ethe	1.0	U	U		U	U		N/S	N/S	U	U	U	U	N/S	N/S	U	U		U	U		N/S	N/S	U	U	U	U	N/S	N/S
bis(2-ethylhexyl)phthalate	5	U	2		8 J	5		N/S	N/S	U	U	U	0.82	N/S	N/S	U	U		U	U		N/S	N/S	U	U	U	0.824	N/S	N/S
di-n-octyl phthalate	--	8	U		U	U		N/S	N/S	U	U	U	U	N/S	N/S	U	U		U	U		N/S	N/S	U	U	U	U	N/S	N/S
chrysene	0.002	U	U		8 J	3		N/S	N/S	U	U	U	U	N/S	N/S	U	U		U	U		N/S	N/S	U	U	U	U	N/S	N/S
benzo(a)anthracene	0.002	U	U		8 J	3		N/S	N/S	U	U	U	U	N/S	N/S	U	U		U	U		N/S	N/S	U	U	U	U	N/S	N/S
benzo(b)fluoranthene	0.002	U	U		7 J	U		N/S	N/S	U	U	U	U	N/S	N/S	U	U		U	U		N/S	N/S	U	U	U	U	N/S	N/S
benzo(a)pyrene	0.002	U	U		6 J	2		N/S	N/S	U	U	U	U	N/S	N/S	U	U		U	U		N/S	N/S	U	U	U	U	N/S	N/S
fluoranthne	50	U	U		8 J	8		N/S	N/S	U	U	0.6 F	0.7	N/S	N/S	U	U		U	U		N/S	N/S	U	U	U	U	N/S	N/S
phenanthrene	50	U	U		7 J	U		N/S	N/S	U	U	U	U	N/S	N/S	U	U		U	U		N/S	N/S	U	U	U	U	N/S	N/S
pyrene	50	U	U		7 J	8		N/S	N/S	U	U	0.7 F	0.66	N/S	N/S	U	U		U	U		N/S	N/S	U	U	U	U	N/S	N/S
Total SVOCs	--	8	2		0	26		N/S	N/S	0	0	1.3	4.12	N/S	N/S	0	0		0	0		N/S	N/S	0	0	0	0.57	N/S	N/S
Wet Chemistry Data (mg/L)																													
nitrate	10000	N/S	0.16		N/S	U		U	U	U	N/S	N/S	N/S	N/S	N/S	N/S	0.37		N/S	0.054		1.2	1.4	1	N/S	N/S	N/S	N/S	N/S
sulfate	250000	N/S	U		N/S	U		U	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	U		N/S	U		N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S
sulfide	--	N/S	U		N/S	U		U	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	U		N/S	U		N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S
total alkalinity	--	N/S	90.8		N/S	176		127	97.7	163	N/S	159	210	190	N/S	N/S	233		N/S	232		156	202	144	N/S	203	0	260	N/S
Field Parameters																													
dissolved iron (mg/L)	--	N/A	0		N/A	2		0	1.2	2.5	0	0.7	0.6	1	2.5	N/A	0		N/A	0		0	0	0	0	0.8	0	0.1	0.4
pH	--	6.79	6.61		7.64	7.12		7.14	6.74	7.65	6.82	7.33	6.52	7.27	7.11	7.76	7.13		7.71	7.12		6.95	6.61	7.25	7.34	7.34	7.06	7.14	7.04
specific conductance (µS/cm)	--	242	1520		815	794		0.14 *	0.18 *	0.2 *	149	0.133 *	0.120 *	0.139 *	0.15 *	1030	601		819	743		0.13 *	0.13 *	97.5	154	0.134 *	0.13 *	0.134 *	0.12 *
temperature (degrees C)	--	14.62	7.4		14.88	11.3		16	13.9	10.1	11.1	14.1	16.8	10.9	10.5	15.5	12		16.07	12.6		15.7	14	11.6	12.3	17.6	18.4	12.1	13.6
dissolved oxygen (mg/L)	--	6.71	4.44		6.09	3.34		5.6	6.9	4.13	3.7	9.19	1.65	1.67	4.2	3.6	3.2		5.62	4.02		4.78	8.29	4.31	5.78	5.17	0	9.44	5.06
oxidation reduction potential (mV)	--	-79	-40		-87	-94		47	-95	-46	299	-53	-22	-73	73	-62	-94		179	83		101	64	128	290	63	29	71	215

Monitoring well decommissioned in March 2002

Notes:
1 - Groundwater Standards are from Technical and Operational Guidance Series (TOGS) 1.1.1, June 1998. Amended in April 2000
* - specific conductance is measured in S/m.
-- Indicates no NYS GA Groundwater Standard
F - Analyte was positively identified but the associated numerical value is below the reporting limit
J - The analyte was positively identified, the quantitation is an approximate value of the analyte in the sample
N/A - Analyte was not analyzed during sampling
N/S- Analyte was not sampled.
U - The analyte was analyzed for, but not detected. The associated numerical value is at or below the method detection limit.

Table 3-2
Tank Farms 1 and 3 Detected Analytical Results (continued)

Monitoring Well ID	NYSDEC	TF3MW-123																		
Sample ID	GW	TF3M12313AA	TF3M12313AA	TF3M12313BB	TF3M12313CA	TF3M12313DA	TF3M12313EA	TF3M12313FA	TF3M12313GB	TF3M12313HB	TF3M12313IB	TF3MW12313JB	TF3M12313KB	TF3M12313LB	TF3M12313MA	TF3M12313NB	TF3M12314OA	TF3M12314PA	TF3M12313RA	TF3M12313SA
Date of Collection	Standards[1]	12/13/01	2/26/02	6/19/02	9/13/02	12/12/02	3/12/03	6/23/03	9/12/2003	12/12/2003	3/18/2004	6/17/2004	9/13/2004	12/30/2004	3/29/2005	3/28/2006	6/20/2006	9/26/2006	3/21/2007	3/20/2008
Sample Depth (ft)	(µg/L)	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	14	14	13	13
VOCs (ug/L)																				
1,2,3-trichlorobenzene	5	U	U	U	0.9 M	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,2,4-trimethylbenzene	5	350 ♦	88 ♦	46 ♦	78 M♦	28	31 ♦	60	72	37	54	45	66	28	19	8.1	5.5 ♦	22.5	23.7	11.4
1,1,2-trichloroethylene	5	U	U	U	2.6	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,3,5-trimethylbenzene	5	26 ♦	10	6.1 ♦	12	4	4.1	8.9	9.9	4.9	7.1	7	10	4.4	2.7 F	1.5 F	0.88 F	3.88	3.9	2.94
1,2-dibromo-3-chloropropane	0.04	5.6	U	1.4 ♦	U	.5 UJ	0.5 UJ	U	U	U	U	U	U	U	U	U	U	U	U	U
1,1-dichloroethene	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	0.37 F	U	U	U
benzene	1	0.38 F	0.32 F	U	U	0.25 F	U	U	U	U	U	U	U	U	U	U	U	U	U	U
chloroethane	5	U	U	U	U	0.29 F	U	U	U	U	U	U	U	U	U	0.72 F	0.69 F	U	U	U
chloromethane	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	0.68 F	U	U	U
t-butylbenzene	5	8.2 ♦	2.5	1.4	3.9 M	1.3	1.2 ♦	U	2.2	U	U	1.5 F	2.1 F	1 F	0.96 F	0.89 F	0.77 F	1.42	0.96 F	1 F
isopropylbenzene	5	480 ♦	140 ♦	73 ♦	130 M♦	53	62 J ♦	120	130	63	110	85	120	56	51	62	41 J	67.9	70.3	63.9
n-butylbenzene	5	20 ♦	4.7	2.1 ♦	U	U	U	U	5.2	U	U	1.4 F	1.9 F	0.9 F	1.2 F	U	U	1.44	0.54 F	2.2
ethylbenzene	5	2.4	1.7	0.95 ♦	U	0.33 F	U	U	U	U	U	U	U	U	U	U	U	0.17	0.26 F	U
methylene chloride	5	U	U	U	U	U	U	6.5 B	U	3 B	U	U	U	U	U	U	U	U	0.28 F	U
n-propylbenzene	5	63 ♦	16 ♦	10 ♦	15	U	6.4 J ♦	11	U	U	U	11	U	U	6.2	U	U	U	8	U
p-isopropyltoluene	5	21 ♦	6.4	3 ♦	5 ♦	2.4	1.9 ♦	U	4.6	1.2	U	2.6 F	3.7 F	1.6 F	1.4 F	0.84 F	0.46 F	1.82	1.12 F	1.92 F
sec-butylbenzene	5	22 ♦	6.1	2.7 ♦	5 ♦	2.5	2 ♦	2.7	4.8	1.4	U	2.8 F	4.3	2 F	1.6 F	1.2 F	0.79 F	1.52	1.4 F	1.84 F
n-propylbenzene	5	U	23	U	26	9.1	U	U	16	7	11	11	15	7.1	6.2	7.1	4.1 J	7.35	U	7.22
naphthalene	10	U	U	2.2 ♦	3.4	U	U	U	U	U	U	U	U	U	U	U	U	U	0.96 F	U
toluene	5	1.1	0.27 F	U	2	U	U	U	U	U	U	U	1 F	U	U	U	U	U	U	U
m,p-xylene	5	22 ♦	7	2.5 ♦	4.3	1.8	1.2	U	U	1.3 F	U	1.4 F	1.4 F	U	U	U	U	0.34	0.3 F	U
Total VOCs	--	1021.3	305.99	151.35	288.1	102.97	109.8	209.1	244.7	118.8	182.1	168.7	225.4	101	84.06	82.35	54.19	107.03	111.72	92.42
SVOCs (µg/L)																				
not sampled at this location																				
Wet Chemistry Data (mg/L)																				
nitrate	10000	N/A	0.8	U	U	U	0.063	U	U	0.29	0.06	U	0.12	0.04 F	U	N/S	N/S	N/S	N/S	N/S
sulfate	250000	N/A	U	11	4.7 B	4	9.3 B	25.5	17	6.3	4.4	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S
sulfide	--	N/A	U	U	U	U	U	U	U	U	0.06 F	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S
total alkalinity	--	N/A	202	156	204	150	160	159	167	352	222	202	186	205	188	N/S	156	200	200	N/S
Field Parameters																				
dissolved iron (mg/L)	--	N/A	4	N/A	3	2.8	1.9	2.8	2.2	NA	1.8	1	3	N/A	1.4	2.4	3.6	3	N/S	3
pH	--	7.75	6.94	7.89	7.14	6.73	9.9	7.03	7.16	8.76	7.12	6.99	6.57	6.6	7.81	7.46	7.26	7.33	7.65	6.92
specific conductance (µS/cm)	--	721	751	686	615	594	531	590	600	830	64	77	90	88	98	94.3	74.3	81	56.1	0.12
temperature (degrees C)	--	12.48	9.1	10.8	14.4	11.8	9	11.56	13.38	13.82	8.5	11.1	14.2	11.9	8.9	9.4	11.5	14.4	9.3	9
dissolved oxygen (mg/L)	--	3.98	3.29	0.86	1.05	4.02	4.24	3.89	4.8	4.58	2.3	4.8	7.32	8.02	4.99	4.36	6.08	3.09	3.22	8.77
oxidation reduction potential (mV)	--	-99	-84	-118	-19	-65	-109	-130	-128	-113	-67	-84	-71	-111	-90	176	-99	-108	-89	-69

Notes:

1 - Groundwater Standards are from Technical and Operational Guidance Series (TOGS) 1.1.1, June 1998. Amended in April 2000

2 - When the guidance value or standard is below the method detection limit, ahieving the method detection limit is considered acceptable for meeting the guidance value or standard

♦ - Concentrations are from duplicate sample, which was greater than the original sample.

-- Indicates no NYS GA Groundwater Standard

B - The analyte was also detected in a blank.

F - Analyte was positively identified but the associated numerical value is below the reporting limit

J - Analyte was positively identified, quantitation is an approximation

M - Matrix effect present

N/A - Analyte was not analyzed during sampling

N/S- Analyte was not sampled.

R - The data is unusable due to deficiences in the ability to analyze the sample and meet QC criteria.

U - The analyte was analyzed for, but not detected. The associated numerical value is at or below the method detection limit.

UJ - The analyte was not detected above the RL, however the quantitation is an approximation.

Table 3-2
Tank Farms 1 and 3 Detected Analytical Results (continued)

Monitoring Well ID	NYSDEC	TF3MW-124										
Sample ID	GW	TF3M12413AA	TF3M12413AA	TF3M12413BB	TF3M12414CA	TF3M12412DA	TF3M12413EA	TF3M12413HA	TF3M12413GB	TF3M12413HB	TF3M12413IB	
Date of Collection	Standards[1]	12/13/01	2/25/02	6/18/02	9/13/02	12/12/2002	3/12/2003	6/19/2003	9/12/2003	12/12/2003	3/17/2004	
Sample Depth (ft)	(µg/L)	13	13	13	14	12	13	13	13	13	13	
VOCs (ug/L)												
1,2-dibromo-3-chloropropane	0.04	U	U	U	U	U	0.25 UJ	U	U	U	U	Monitoring well not sampled after March 2004
acetone	50	U	U	U	U	U	U	U	U	4.4 F	3.3 F	
benzene	1	0.76 F	0.76	0.43 F	0.5	U	U	U	U	U	U	
1-chlorohexane	--	U	U	U	U	U	U	0.14 M	0.14 M	U	U	
1,2,3-trichloropropane	5	U	U	U	U	U	U	0.21 M	U	U	U	
1,2,4-trimethylbenzene	5	U	U	U	U	U	U	0.23 M	U	U	U	
1,3,5-trimethylbenzene	5	U	U	U	U	U	U	0.25 M	U	U	U	
chloromethane	5	U	U	U	U	0.22 F	U	U	U	U	U	
t-butylbenzene	5	0.45 F	0.3 F	U	U	U	U	U	U	U	U	
bromodichloromethane	50	U	U	U	U	U	U	0.11 M	U	U	U	
bromomethane	5	U	U	U	U	U	0.19 UJ	U	0.13 M	U	U	
isopropylbenzene	5	2.3	0.23 F	U	U	U	U	U	U	U	U	
p - isopropyltoluene	5	0.21 F	U	U	U	U	U	U	U	U	U	
sec - butylbenzene	5	0.47 F	U	U	U	U	U	U	U	U	U	
m,p-xylene	5	U	U	U	U	U	U	0.34 M	U	U	U	
2-hexanone	--	U	U	11	U	U	U	U	U	U	U	
toluene	5	U	U	U	U	U	U	0.17 M	U	U	U	
trichloroethylene	5	0.52 F	0.57	0.59	0.61	0.48 F	0.62 J	0.33 F	U	0.6 F	0.55 F	
styrene	5	U	U	U	U	U	U	0.12 M	U	U	U	
tetrachloroethylene	5	U	U	U	U	U	U	U	0.18 M	U	U	
trichlorofluoromethane	5	U	U	U	U	U	U	U	0.14 M	U	U	
Total VOCs	--	4.71	1.86	12.02	1.11	0.7	0.62	1.9	0.59	5 F	3.85 F	
SVOCs (µg/L)												
2,4,5-trichlorophenol	1*	U	U	3 M	U	U	3 UJ	U	U	U	U	
2,4,6-trichlorophenol	1*	U	U	4 M	U	U	4 UJ	U	U	U	U	
2,4-dichlorophenol	1*	U	U	5 M	U	U	4 UJ	U	U	U	U	
2,4-dinitrophenol	1*	U	U	12 M	UJ	U	11 UJ	U	U	U	U	
4,6-dinitro-2-methylphenol	1*	U	U	16 M	U	U	15 UJ	U	U	U	U	
4-nitrophenol	1*	U	U	4 M	U	U	3 UJ	U	U	U	U	
benzoic acid	--	U	U	U	U	U	13 UJ	17 R	17 R	U	U	
isophorone	50	U	U	U	U	U	5 UJ	R	U	U	U	
benzo(a)anthracene	1*	U	U	U	U	U	2 UJ	3 M	U	U	U	
Wet Chemistry Data (mg/L)												
nitrate	10000	N/A	U	U	U	U	0.12	0.056	U	U	U	
sulfate	250000	N/A	U	27.9	22 B	24.3	28.8 B	198	35.5	114	33.1 M	
sulfide	--	N/A	U	U	U	U	U	U	U	U	0.049 M	
total alkalinity	--	N/A	165	132	160	116	150	129	148	154	167	
Field Parameters												
dissolved iron (mg/L)	--	N/A	1.4	N/A	1.5	1.3	0.2	2.5	2	0.6	3.2	
pH	--	7.98	7.31	7.96	7.12	6.79	10.15	7.17	7.29	7.2	7.19	
specific conductance (µS/cm)	--	867	581	799	856	658	526	700	937	880	240	
temperature (degrees C)	--	13.68	10.4	11.6	15.6	13.3	9.6	11.52	14.95	14.1	8.63	
dissolved oxygen (mg/L)	--	3.88	3.35	0.63	1.56	3.98	4.61	3.9	5.52	8.17	2.6	
oxidation reduction potential (mV)	--	-73	-90	-129	4	-39	-107	-110	-128	-106	-10	

Notes:

1 - Groundwater Standards are from Technical and Operational Guidance Series (TOGS) 1.1.1, June 1998. Amended in April 2000

2 - When the guidance value or standard is below the method detection limit, ahieving the method detection limit is considered acceptable for meeting the guidance value or standard

* - Sum of total phenolic compounds may not exceed 1 (µg/L)

-- Indicates no NYS GA Groundwater Standard

F - Analyte was positively identified but the associated numerical value is below the reporting limit

M - Matrix effect present

N/A - Analyte was not analyzed during sampling

N/S- Analyte was not sampled.

U - The analyte was analyzed for, but not detected. The associated numerical value is at or below the method detection limit.

UJ - The analyte was not detected above the RL, however the quantitation is an approximation.

Table 3-2
Tank Farms 1 and 3 Detected Analytical Results (continued)

Monitoring Well ID	NYSDEC GW Standards[1] (µg/L)	TF3MW-125							
Sample ID		TF3M12513AA	TF3M12513BB	TF3M12514CA	TF3M12513DA	TF3M12513EA	TF3M12513FA	TF3M12514GB	
Date of Collection		2/12/02	6/19/02	9/13/02	12/20/2002	3/12/2003	6/23/2003	9/2/2003	
Sample Depth (ft)		13	13	14	13	13	13	14	
VOCs (ug/L)									
1,2-dichloropropane	1	U	U	U	U	.32 UJ	U	U	
1,2,4-trimethylbenzene	5	81 ♦	48 ♦	56 ♦	29	28	23	36	
1,3,5-trimethylbenzene	5	33 ♦	19	21 ♦	14	10 M	8.3	13	
benzene	1	0.36 F	U	U	U	0.30 UJ	U	U	
n-butylbenzene	5	U	2.3	3 J	U	0.44 UJ	U	U	
sec-butylbenzene	5	2.7 ♦	2	2.6 ♦	1.4	1.8 M	U	U	
t-butylbenzene	5	1.6 ♦	0.98	1.3 ♦	0.9	0.92 J	U	U	
chloroethane	5	U	U	0.63	U	0.32 UJ	U	U	
chloromethane	5	U	U	0.66	U	0.28 UJ	U	U	
ethylbenzene	5	94 ♦	82 ♦	90 ♦	53	61 M	51	62	
isopropylbenzene	5	80 ♦	62 ♦	85 ♦	40	50 M	37	43	
p-isopropyltoluene	5	4.2 ♦	2.9 ♦	3.6	U	2.1 M	U	U	
methylene chloride	5	U	U	U	U	0.5	7 B	8.5	
methyl ethyl ketone	5	U	U	U	U	3.1 UJ	U	U	
n-propylbenzene	5	14	15	18 ♦	9.5	11 M	7.8	11	
naphthalene	10	U	11	14 ♦	7.8	10 J	6.8	9.1	
toluene	5	1.1 ♦	0.86	1.1 ♦	U	0.54 M	U	U	
o-xylene	5	2.5	1.1	1.4 ♦	0.87	0.78 M	U	U	
m,p-xylene	5	89 ♦	47 ♦	42 ♦	26	28 J	26	37	
Total VOCs	--	403.46	294.14	337.29	182.47	204.64	159.9	219.6	
SVOCs (µg/L)									
bis-(2-ethylhexyl) phthalate	5	5 F	U	U	U	U	U	U	
benzoic acid	--	U	U	U	U	U	17 R	18 R	
naphthalene	10	4 F	U	U	6 F	6 F	4 F	6 F	
phenanthrene	50	U	U	U	U	3 F	U	U	
pyrene	50	3 F	U	U	U	U	U	U	
2-methylnaphthalene	--	U	U	U	U	5 F	2 F	2 F	
bis (2-etylhexyl) phthalate	5	U	U	U	U	4 M	U	U	
Total SVOCs	--	12	0	0	6	18	6	8	
Wet Chemistry Data (mg/L)									
nitrate	10000	U	U	U	N/A	U	U	U	
sulfate	250000	U	5.4	5.2 B	2.7	10.9 B	39.7	4.3	
sulfide	--	U	U	U	U	1 M	U	U	
total alkalinity	--	106	97.6	137	96.3	143	116	116	
Field Parameters									
dissolved iron (mg/L)	--	3.5	N/A	5.6	4.4	2.8	3.5	N/S	
pH	--	6.64	6.55	6.9	6.87	6.84	6.8	N/S	
specific conductance (µS/cm)	--	380	403	422	481	391	228	N/S	
temperature (degrees C)	--	9.6	9.9	13	12.8	9.38	9.99	N/S	
dissolved oxygen (mg/L)	--	4.90	3.87	1.09	2.88	4.51	3.56	N/S	
oxidation reduction potential (mV)	--	-50	-83	-22	-112	-3	-132	N/S	

Monitoring well decomissioned in September 2003

Notes:

1 - Groundwater Standards are from Technical and Operational Guidance Series (TOGS) 1.1.1, June 1998. Amended in April 2000

2 - When the guidance value or standard is below the method detection limit, ahieving the method detection limit is considered acceptable for meeting the guidance value or standard

♦ - Indicates higher value detected in the sample duplicate or during the dilution phase.

-- Indicates no NYS GA Groundwater Standard

B - The analyte was also detected in a blank

F - Analyte was positively identified but the associated numerical value is below the reporting limit

J - Analyte was positively identified, quantitation is an approximation

N/A - Analyte was not analyzed during sampling

N/S- Analyte was not sampled.

U - The analyte was analyzed for, but not detected. The associated numerical value is at or below the method detection limit.

UJ - The analyte was not detected above the RL. However the quantitation is an approximation.

Table 3-2
Tank Farms 1 and 3 Detected Analytical Results (continued)

Monitoring Well ID	NYSDEC	TF3MW-126																		
Sample ID	GW	TF3M112613AA	TF3M112613BB	TF3M12614CA	TF3M12612DA	TF3M12613EA	TF3M12613FA	TF3M12614GB	TF3M12612HB	TF3M12613IB	TF3M12613JB	TF3M12613KB	TF3M12613LB	TF3M12613MA	TF3M12613NA	TF3M12614OA	TF3M12614PA	TF3M12613RA	TF3M12613SA
Date of Collection	Standards[1]	2/12/02	6/19/02	9/13/02	12/20/2002	3/12/03	6/20/03	9/12/2003	12/12/2003	3/18/2004	6/17/2004	9/13/2004	1/3/2005	3/29/2005	3/28/2006	6/20/2006	9/26/2006	3/21/2007	3/20/2008
Sample Depth (ft)	(µg/L)	13	13	14	12	13	13	14	12	13	13	13	13	13	13	14	14	13	13
VOCs (ug/L)																			
1,2-dichloropropane	1	U	U	0.42 F	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1-2-dichloroethane	5	U	U	U	U	U	U	U	U	U	U	U	U	0.26 F	U	U	U	U	U
1,2,4-trimethylbenzene	5	0.55	U	1.6	U	U	U	U	U	U	0.39 F	U	U	U	U	U	U	U	U
1,3,5-trimethylbenzene	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,1,2-trichlorethane	1	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	3.24	U
cis-1,2-dichloroethylene	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	0.15 F	U
acetone	50	U	U	U	U	U	U	U	5.7 F	U	U	U	U	U	U	U	U	U	U
benzene	1	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
n-butylbenzene	5	7.8	4.7	U	U	U	U	U	U	U	U	U	U	U	U	U	U	0.17 F	U
sec-butylbenzene	5	11	6.5	6	2.4	2.4	1.9 J ♦	1.8	1.1	1.4	2	1.2	0.77 F	U	2.4	4.4	5.33	1.18 J	1.97
Trichloroethylene	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
t-butylbenzene	5	2.5	1.5	1.5	1.4	0.88	0.6 F ♦	1.2	1.4	1.1	1.6	1.5	0.96 F	0.87 F	1.4	2.4	1.58	0.75 F	0.610 F
Tetrachloroethylene	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
chloroethane	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
chloroform	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
chloroethane	5	U	U	U	U	U	U	U	U	U	U	U	U	0.29 F	U	0.62 F	U	U	U
chloromethane	5	U	U	U	0.26 F	U	U	U	U	U	U	U	U	0.33 F	U	0.69 F	U	U	U
ethylbenzene	5	U	0.37 F	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
isopropylbenzene	5	11	4.2	8.1	3.1	U	0.35 F ♦	1.6	1	1.1	3	0.39 F	1	0.86 F	0.31 F	9.6	6.28	U	U
p-isopropyltoluene	5	1	0.38 F	0.31 F	0.3 F	U	U	U	U	2.5	U	3.2	U	U	U	U	U	U	U
methylene chloride	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	0.12 F	U
methyl ethyl ketone	5	U	U	U	U	1.6 UJ	U	U	U	U	U	U	U	U	U	U	U	U	U
n-propylbenzene	5	18	2.9	6.9	1	0.99	0.33 F ♦	0.77 F	0.49 F	0.83 F	0.8 F	U	U	0.25 F	U	1.4	5.81	U	U
naphthalene	10	U	U	U	U	U	U	U	U	U	U	U	U	U	U	0.22 F	U	0.52 F	U
toluene	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
o-xylene	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
m,p-xylene	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Total VOCs	--	51.85	20.55	24.41	8.46	4.27	3.18	5.37	9.69	6.93	7.79	6.29	2.73	2.86	4.11	19.33	19	6.13	2.58
SVOCs (µg/L)																			
benzoic acid	--	U	U	U	U	U	17 R	17 R	U	U	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S
2-methylnaphthalene	--	12	U	10	U	U	U	U	U	U	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S
Wet Chemistry Data (mg/L)																			
nitrate	10000	U	U	U	N/A	U	U	U	U	0.58	0.18	0.065	0.67	U	N/S	N/S	N/S	N/S	N/S
sulfate	250000	U	13.8	4.9 B	8.9	16.8 B	50	9.2	35.4	22.7	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S
sulfide	--	U	U	U	U	U	U	U	U	U	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S
total alkalinity	--	267	220	233	182	233	241	243	400	308	275	218	271	243	N/S	217	260	300	N/S
Field Parameters																			
dissolved iron (mg/L)	--	3.5	N/A	5.4	6	3.4	4.4	2.5	1.8	2	3.2	4.8	2.3	2.8	3.5	4.8	2.6	4.5	2
pH	--	7.12	6.64	6.74	6.94	6.9	7.15	7.17	6.7	6.95	7.11	6.88	7.48	7.65	7.18	7.5	7.28	7.67	6.28
specific conductance (µS/cm)	--	451	479	660	590	509	414	581	686	68	58	59	65.8	70.4	99	88	87	70.6	69
temperature (degrees C)	--	10	9.8	13.2	12.7	9.6	10.11	13.32	12.52	8.5	9.9	13.4	11.3	9.3	8.77	10.4	14.4	9.4	9.2
dissolved oxygen (mg/L)	--	5.18	3.51	1.13	2.18	4.5	3.75	3.54	0.9	4.8	2.9	6.08	8.82	4.44	3.33	2.92	3	8.7	5.33
oxidation reduction potential (mV)	--	-84	-91	-8	-118	-30	-125	-152	-122	-70	-104	-100	-10	-102	-122	-57	-121	-100	-31

Notes:

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2 - When the guidance value or standard is below the method detection limit, ahieving the method detection limit is considered acceptable for meeting the guidance value or standard

♦ - Indicates higher value detected in the sample duplicate or during the dilution phase.

-- Indicates no NYS GA Groundwater Standard

B - The analyte was also detected in a blank.

F - Analyte was positively identified but the associated numerical value is below the reporting limit

J - Analyte was positively identified, quantitation is an approximation

N/A - Analyte was not analyzed during sampling

N/S- Analyte was not sampled.

U - The analyte was analyzed for, but not detected. The associated numerical value is at or below the method detection limit.

UJ - The analyte was not detected above the RL. However the quantitation is an approximation.

Table 3-2
Tank Farms 1 and 3 Detected Analytical Results (continued)

Monitoring Well ID	NYSDEC	TF3MW-127																		
Sample ID	GW	TF3M12713AA	TF3M12713BB	TF3M12714CA	TF3M12712DA	TF3M12713EA	TF3M12713FA	TF3M12713GB	TF3M12713HB	TF3M12713IB	TF3M12713JB	TF3M12713KB	TF3M12713LB	TF3M12713MA	TF3M12713NA	TF3M12713OA	TF3M12713PA	TF3M12713PA	TF3M12712SA
Date of Collection	Standards[1]	2/12/02	6/19/02	9/13/02	12/20/2002	3/12/2003	6/20/2003	9/12/2003	12/12/2003	3/17/2004	6/17/2004	9/13/2004	12/30/2004	3/29/2005	3/28/2006	6/20/2006	9/26/2006	3/21/2007	3/20/2008
Sample Depth (ft)	(µg/L)	13	13	14	12	13	13	13	13	13	13	13	13	13	13	13	13	13	12
VOCs (ug/L)																			
1,2,4-trimethylbenzene	5	180 ♦	16	190 ♦	14	15	5.6	56 J	56	21	72	43	70	6.2	28	15	101	59.6	14.5
1,3,5-trimethylbenzene	5	66 ♦	6.6	74 ♦	7.9	6.3	2.5	30	20	7.1	0.83 F	13	U	2.9	9.2	U	U	U	U
benzene	1	2.6	0.94	5.7	1.3	0.54	2.2	5.2	2.1	2.9	4.2	3.3	2.2	0.97	1.7	1.4	3.05	0.94 F	0.73
n-butylbenzene	5	9	1.2	U	U	U	U	3.5	U	U	0.87 F	0.64 F	0.49 F	0.41 F	0.26 F	U	1.56	0.74 F	U
sec-butylbenzene	5	12	2.1	15 ♦	2.7	1.5	1.3	6.7	5.1	2.7	3.2	2.7	1.7 F	1.2	0.87 F	1.4	3.7 ♦	2.48 J	0.26 F
t-butylbenzene	5	1.7	0.24 F	1.7 ♦	0.34 F	U	U	0.87 F	0.52 F	0.26 F	0.87 F	U	U	U	U	U	U	0.32 F	U
chloroethane	5	U	U	0.44 F	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
chloromethane	5	U	U	0.47 F	U	U	U	U	U	U	U	U	U	U	U	0.22 F	U	U	U
ethylbenzene	5	81	15	120 B	20	35	12	41 J	47	25	50	26	30	5.2	16	17	47.8	23.2	15.6
isopropylbenzene	5	37	5.9	67 ♦	8.7	7.6	3.1	24	18	8.6	18	10	10	3.6	6.5	9.9	25.5	U	3.79
p-isopropyltoluene	5	14	1.3	11	1.2	0.56	U	2.5	1.7	0.48 F	1.7 F	0.89 F	0.74 F	0.34 F	0.60 F	0.66 F	3.9 ♦	1.08 F	0.4 F
methyl ethyl ketone	5	U	U	U	U	1.6 UJ	U	U	U	U	U	U	U	U	U	U	U	U	U
n-propylbenzene	5	48	7.3	80 ♦	9.6	7.1	3.1	28	20	7.7	19	11	10	3.9	6.5	9.8	27.5	15.3 J	3.39
naphthalene	10	U	5.1	44	7.6 J	8.5	2.2	22	19	8.2	19	12	12	2.6	7.2	7.9 B	25.8	12.3	3.83
trichloroethylene	5	0.54	0.44 F	0.26 F	0.49 F	0.43 F	U	0.23 F	U	U	U	U	U	U	0.28 F	U	U	U	0.13 F
m,p-xylene	5	45	7	49	7.7	20	4.6	45	40	18	41	24	25	2.7	11	8.3	31.6	14.6	12.3
methylene chloride	5	U	U	U	U	U	U	U	0.8 F	U	2.2	0.53 F	U	U	U	U	U	0.44 F	U
Total VOCs	--	451.84	62.12	659.77	73.83	82.53	36.6	220	230.22	101.94	230.67	147.06	162.13	30.02	77.11	71.5	271.41	131	54.93
SVOCs (µg/L) MCL[2]																			
2-methylnaphthalene	--	35	23	140	9 F	8 F	3 F	9 F	2 F	U	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S
Wet Chemistry Data (mg/L)																			
nitrate	10000	0.11	U	U	N/A	U	0.055	U	0.15	0.83	0.36	0.13	0.36	0.24	N/S	N/S	N/S	N/S	N/S
sulfate	250000	U	24.8	14.8	11.5	10.6 B	14.2	21	21.6	24.8	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S
sulfide	--	U	U	U	U	U	U	U	U	0.061 F	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S
total alkalinity	--	284	218	268	214	252	253	231	389	233 B	341	246	314	298	N/S	217	380	310	N/S
Field Parameters																			
dissolved iron (mg/L)	--	3.2	N/A	6.5	3.5	2	1.8	4	2.5	2	2.8	1	2	1.8	0.5	3.7	4.2	1.9	0
pH	--	6.81	7.85	6.56	7.03	7.08	7.15	7.07	6.44	7.07	6.99	7.59	6.24	6.82	6.93	7.15	7.27	7.28	6.95
specific conductance (µS/cm)	--	524	752	839	566	451	353	517	543	76	81	68.8	71	74	95.6	112	82	84.3	77
temperature (degrees C)	--	9.6	10.2	13.3	11.5	8.3	9.37	13.22	11.69	7.79	9.9	13.2	10.4	8.4	8.57	10.6	13.5	8.9	8.41
dissolved oxygen (mg/L)	--	3.55	0.8	1.2	2.66	4.88	4.02	6.28	3.41	4.1	2.9	4.59	8.11	6.87	5.22	2.86	5.12	2.75	3.12
oxidation reduction potential (mV)	--	-90	-111	6	-99	52	-89	-129	-73	-21	-70	-38	-51	75	-50	118	23	18	243

Notes:

1 - Groundwater Standards are from Technical and Operational Guidance Series (TOGS) 1.1.1, June 1998. Amended in April 2000

* - Sum of total phenolic compounds may not exceed 1 (µg/L)

♦ - Concentrations are from duplicate sample or dilution, which was greater than the original sample

-- Indicates no NYS GA Groundwater Standard

B - The analyte was also detected in a blank.

F - Analyte was positively identified but the associated numerical value is below the reporting limit

J - Analyte was positively identified, quantitation is an approximation

N/A - Analyte was not analyzed during sampling

N/S- Analyte was not sampled.

U - The analyte was analyzed for, but not detected. The associated numerical value is at or below the method detection limit.

UJ - The analyte was not detected above the RL, however the quantitation is an approximation.

Table 3-2
Tank Farms 1 and 3 Detected Analytical Results (continued)

Monitoring Well ID	NYSDEC	TF3MW-128																		
Sample ID	GW	TF3M112813AA	TF3M112813BB	TF3M12814CA	TF3M12813DA	TF3M12814EA	TF3M12813FA	TF3M12814GB	TF3M12813HB	TF3M12813IB	TF3M12814JB	TF3M12813KB	TF3M12814LB	TF3M12814MA	TF3M12814NA	TF3M12814OA	TF3M12814PA	TF3M12813RA	TF3M12813SA
Date of Collection	Standards[1]	2/12/02	6/19/02	9/13/02	12/20/2002	3/12/2003	6/20/2003	9/11/2003	12/12/2003	3/17/2004	6/17/2004	9/13/2004	12/30/2004	3/29/2005	3/28/2006	6/20/2006	9/26/2006	3/21/2007	3/21/2008
Sample Depth (ft)	(µg/L)	13	13	14	13	14	13	14	13	13	14	13	14	14	14	14	14	13	13
VOCs (ug/L)																			
1,2,4-trimethylbenzene	5	140 ♦	98 ♦	53	33	31	60 ♦	44	24	16	32	20	8.3	25	17	8	4.25	5.61	0.64 F
1,3,5-trimethylbenzene	5	54	39 ♦	23	14	10	24 ♦	18	7.9	5.5	12	6.7	2.7	11	9.8	U	U	U	U
acetone	50	U	U	U	U	U	U	U	3.4 F	U	U	U	U	U	U	U	U	U	U
benzene	1	4.2	2.2 ♦	3.3	1.4	0.62	0.99 ♦	1.4	0.42 F	0.63	0.8	0.42 F	.25 F	1.2	0.9	0.85	0.33	0.98	U
n-butylbenzene	5	6	3.6	U	U	U	U	3	0.89 F	U	0.74 F	0.59 F	U	1.8	1.2	2	U	1.59 J	U
sec-butylbenzene	5	9.3	6.8	6	3.1	2	4.5 ♦	3.8	1.2	1.4	2.2	1.5	0.44 F	3.4	3.2	3.4	0.89	4.36 J	U
t-butylbenzene	5	1.2	0.75	0.8	0.42 F	0.24 F	0.3 F	0.47 F	U	U	0.3 F	U	U	0.34 F	0.38 F	0.4 F	U	0.5 F	U
chloroethane	5	U	U	0.29 F	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
chloromethane	5	U	U	0.31 F	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
ethylbenzene	5	98 ♦	58 ♦	54 B	19	12	22 ♦	21	9.1	10	15	8.6	5.5	17	14	14	6.5	14.9	0.63 F
isopropylbenzene	5	32	21 ♦	24	9.3	5.5	10 ♦	9.8	3.9	4.7	7.3	3.9	2.1	9	7.4	7.7	2.05	9.07 J	0.39 F
p-isopropyltoluene	5	40	17 ♦	19	9.8	3.9	5.6 ♦	3.8	1.2	2	5.3	2.4	0.75 F	5	2.1	2	0.86	1.67	U
methyl ethyl ketone	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
n-propylbenzene	5	41	30 ♦	30	13	7.3	16 ♦	14	5.4	5.2	9.6	5.5	2.5	12	10	10	2.49	13.2 J	0.26 F
naphthalene	10	U	23	30	9.9 J	5.4	9	8.3	3.1	4.8	6.5	3.4	2.4	7.4	6.5	6.4 B	3.04	7.36	0.68 F
toluene	5	1 ♦	0.5	0.36 F	0.23 F	U	U	U	U	U	U	U	U	U	U	U	U	U	U
o-xylene	5	1.1	U	0.44 F	0.25 F	U	U	U	U	U	U	U	U	U	U	U	U	U	U
m,p-xylene	5	82	47 ♦	32 B	14	11	21 ♦	20	9.4	8.4	14	8	4.2	12	9.9	7.2	4.37	4.2	0.38 F
methylene chloride	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	0.45 F	U
Total VOCs	--	427.8	346.85	276.5	127.4	88.96	173.39	147.57	69.91	58.63	105.74	61.01	29.14	105.14	82.38	61.95	24.78	63.89	2.98
SVOCs (µg/L) MCL[2]																			
2-methylnaphthalene	--	24	17	12	U	4 F	6 F	8 F	U	5 F	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S
benzo(a)anthracene	0.002	U	U	U	2 F	U	U	U	U	U	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S
acenaphthene	20	8 F	U	5 F	U	U	U	U	U	U	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S
anthracene	50	5 F	U	U	U	U	U	U	U	U	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S
benzoic acid	--	U	U	U	U	13 UJ	17 R	18 R	U	U	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S
dibenzofuran	--	4 F	U	U	U	U	U	U	U	U	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S
flouranthene	50	6 F	U	U	U	U	U	U	U	U	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S
flourene	50	6 F	U	U	U	U	U	U	U	U	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S
naphthalene	10	26	15	17	6 F	4 F	5 F	7 F	U	4 F	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S
phenanthrene	50	20	4 F	8 F	U	U	U	U	U	U	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S
pyrene	50	4 F	U	3	U	U	U	U	U	U	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S
Total SVOCs	--	103	32	45	8 F	8 F	11 F	15 F	0	9 F	N/S	N/S	N/S	N/S	N/S	N/S	N/S	0	0
Wet Chemistry Data (mg/L)																			
nitrate	10000	U	U	U	N/A	0.73	0.32	U	0.074	0.19	U	U	0.59	U	N/S	N/S	N/S	N/S	N/S
sulfate	250000	12.9	6.1	5.8	31.8	9.3 B	25.8	6.1	4	2.6	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S
sulfide	--	U	U	U	U	U	U	U	U	U	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S
total alkalinity	--	247	233	293	212	203	253	329	573	314 B	362	371	381	402	N/S	332	400	340	N/S
Field Parameters																			
dissolved iron (mg/L)	--	0.7	N/A	3.2	1.6	0	1.6	0.4	0.2	0.4	0.5	0	0	0.8	0	0	0	0.3	0
pH	--	7.29	7.74	7.13	7.05	7.34	7.05	7.09	5.83	6.8	6.72	7.21	6.3	6.86	6.92	6.93	7.43	7.12	6.96
specific conductance (µS/cm)	--	377	457	612	609	338	609	500	659	75	75	76.5	73	71	91.3	84	70	61.2	54.1
temperature (degrees C)	--	9.7	9.9	13.4	11.2	6.72	11.2	12.05	10.83	7.92	9.8	13.4	10.6	9	8.89	10.7	13.5	8.8	8.24
dissolved oxygen (mg/L)	--	4.8	1.81	4.46	4.27	6.89	4.27	5.89	3.48	4.2	5.3	5.93	7.81	7.5	4.5	4.47	5.11	4.22	9.84
oxidation reduction potential (mV)	--	-124	-90	-15	-79	162	-79	-61	246	91	-12	65	99	92	20	231	135	70	283

Notes:

1 - Groundwater Standards are from Technical and Operational Guidance Series (TOGS) 1.1.1, June 1998. Amended in April 2000

* - Sum of total phenolic compounds may not exceed 1 (µg/L)

♦ - Concentrations are from duplicate sample or dilution, which was greater than the original sample

-- Indicates no NYS GA Groundwater Standard

B - The analyte was also detected in a blank.

F - Analyte was positively identified but the associated numerical value is below the reporting limit

J - Analyte was positively identified, quantitation is an approximation

N/A - Analyte was not analyzed during sampling

N/S- Analyte was not sampled.

U - The analyte was analyzed for, but not detected. The associated numerical value is at or below the method detection limit.

UJ - The analyte was not detected above the RL, however the quantitation is an approximation.

Table 3-2
Tank Farms 1 and 3 Detected Analytical Results (continued)

Monitoring Well ID	NYSDEC	TF3MW-129									
Sample ID	GW	TF3M12918AA	TF3M12918BB	TF3M12915CA	TF3M12917DA	TF3M12918EA	TF3M12918FA	TF3M12918GB	TF3M12918HB	TF3M12918IB	Monitoring well not sampled after March 2004
Date of Collection	Standards[1]	2/12/02	6/19/02	9/13/02	12/20/2002	3/12/2003	6/20/03	9/12/03	12/12/2003	3/17/2004	
Sample Depth (ft)	(µg/L)	13	13	15	17	18	17	18	18	18	
VOCs (ug/L)											
1,1,1-trichloroethane	5	U	0.41 F	0.25 F	U	0.35 F	0.24 F	U	U	U	
1,3,5-trimethylbenzene	5	U	U	U	U	U	U	U	U	0.39 F	
acetone	50	U	U	U	U	U	U	U	4.4 F	U	
benzene	1	0.44 F	U	U	U	U	0.61	0.58	0.31 F	2.2	
chloroform	7	U	0.45 F	U	U	0.31 F	0.39 F	0.22 F	0.21 F	U	
sec - butylbenzene	5	0.21 F	U	U	U	U	U	U	U	U	
ethylbenzene	5	0.78	0.25 F	0.42 F	0.23 F	1.1	0.95 F	1.2	0.61 F	3.9	
isopropylbenzene	5	1	0.29 F	0.34 F	U	1.3	0.65 F	0.67 F	0.3 F	4.5	
n-propylbenzene	5	U	U	U	U	U	U	U	U	0.22 F	
naphthalene	10	U	U	U	UJ	0.21 F	U	U	U	U	
trichloroethylene	5	0.34 F	0.41 F	0.32 F	0.4 F	0.33 F	0.2 F	0.27 F	0.3 F	0.28 F	
o-xylene	5	U	U	U	U	U	U	U	U	0.31 F	
Total VOCs	--	2.77	1.81	1.33	0.63	3.6	3.04	2.94	6.13	11.8	
SVOCs (µg/L)											
bis(2-ethylhexyl)phthalate	5	3 F	U	U	U	U	U	U	U	U	
benzoic acid	--	U	U	U	U	U	17 R	7 R	U	U	
di-n-butyl phthalate	50	3 F	U	U	U	U	U	U	U	U	
flouranthene	50	23	4 F	4 F	5 F	4 F	U	U	U	U	
phenanthrene	50	8 F	U	U	U	U	U	U	U	U	
pyrene	50	16	U	3 F	4 F	3 F	U	2 F	U	U	
Total SVOCs	--	53	4 F	7 F	9 F	7 F	0	2 F	0	0	
Wet Chemistry Data (mg/L)											
nitrate	10000	0.22	0.28	0.14	N/A	0.46	0.84	0.4	0.82	0.8	
sulfate	250000	U	14.7	17.6	9.3	14.2 B	24	12.6	23.6	18.3	
sulfide	--	U	U	U	U	U	U	U	U	U	
total alkalinity	--	216	208	223	149	202	235	221	324	175 B	
Field Parameters											
dissolved iron (mg/L)	--	0.3	N/A	0.2	0.4	0.2	0.02	0	0.6	0.5	
pH	--	7.17	7.59	6.75	7.39	9.09	7.39	7.37	6.83	7.17	
specific conductance (µS/cm)	--	563	478	537	512	439	293	480	584	61	
temperature (degrees C)	--	11	11	12.4	12.7	11.1	11.12	12.06	12.86	10.48	
dissolved oxygen (mg/L)	--	3.90	1.36	1.22	3.09	3.97	3.89	5.06	7.71	3.2	
oxidation reduction potential (mV)	--	-59	-75	29	-50	-73	-61	-102	-43	151	

Notes:

1 - Groundwater Standards are from Technical and Operational Guidance Series (TOGS) 1.1.1, June 1998. Amended in April 2000

♦ - Indicates higher value detected in the sample duplicate or during the dilution phase.

-- Indicates no NYS GA Groundwater Standard

F - Analyte was positively identified but the associated numerical value is below the reporting limit

N/A - Analyte was not analyzed during sampling

U - The analyte was analyzed for, but not detected. The associated numerical value is at or below the method detection limit.

Table 3-2
Tank Farms 1 and 3 Detected Analytical Results (continued)

Monitoring Well ID	NYSDEC GW Standards[1] (µg/L)	TF3MW-130									
Sample ID		**TF3M13016AA**	**TF3M13017BB**	**TF3M13018CA**	**TF3M13016DA**	**TF3M13017EA**	**TF3M13017FA**	**TF3M13017GB**	**TF3M13017HB**	**TF3M13017IB**	**Monitoring well not sampled after March 2004**
Date of Collection		**2/12/02**	**6/19/02**	**9/13/02**	**12/20/2002**	**3/12/2003**	**6/23/2003**	**9/12/2003**	**12/12/2003**	**3/17/2004**	
Sample Depth (ft)		**16**	**16**	**16**	**16**	**17**	**17**	**17**	**17**	**17**	
VOCs (ug/L)											
1,1,2-trichloroethane	1	1.1	U	U	U	U	U	U	U	U	
1,2,4-trimethylbenzene	5	12	U	0.75	0.59	0.37 F	0.67 F	0.87 F	0.83 F	1.8	
1,3,5-trimethylbenzene	5	2.5	U	U	U	U	0.37 F	0.74 F	0.89 F	U	
bromodichloromethane	5	0.25 F	U	U	U	U	U	U	U	U	
chloroethane	5	U	U	0.25 F	0.26 F	U	U	U	U	U	
chloroform	7	0.25 F	U	U	U	U	U	U	U	U	
sec - butylbenzene	5	0.61	U	1.2	0.21 F	U	U	0.65 F	0.39 F	0.48 F	
ethylbenzene	5	1.7	0.74	0.98 B	1.3	0.68	0.41 F	3.8	3.3	1.7	
isopropylbenzene	5	2.4	0.23 F	1.2	1.4	0.46 F	0.72 F	1.8	2.5	2.3	
methylene chloride	5	U	U	U	U	0.53	U	U	U	U	
p-isopropyltoluene	5	0.45 F	U	0.49 F	U	U	U	U	U	U	
n-propylbenzene	5	1.3	U	1.4	0.78	0.44 F	0.34 F	2.4	2	2.1	
naphthalene	10	U	0.53 F	0.61 F	1.9	0.47 F	1.7	0.98 F	3	1	
o-xylene	5	1.3	0.26 F	U	0.47 F	U	U	0.48 F	0.55	0.38 F	
m,p-xylene	5	1.5	0.47 F	U	0.38 F	U	U	1.4 F	1.1 F	0.68 F	
Total VOCs	--	25.36	2.23	6.88	7.29	2.95	4.21	13.12	14.56	48.78	
SVOCs (µg/L)											
bis(2-ethylhexyl)phthalate	5	U	U	2 F ♦	U	U	U	U	U	U	
benzoic acid	--	U	U	U	U	U	17 R	7 R	U	U	
Wet Chemistry Data (mg/L)											
nitrate	10000	0.29	1.5	U	N/A	1.3	1.8	0.86	1.5	0.75	
sulfate	250000	48	13.1	12.3	70	13.2 B	17.6	8.4	13.2	12.6	
sulfide	--	U	U	U	U	U	U	U	U	0.056 F	
total alkalinity	--	225	136	246	120	157	149	212	240	137 B	
Field Parameters											
dissolved iron (mg/L)	--	1	N/A	0.6	0.8	0.4	0	0	0.2	0	
pH	--	6.92	7.18	7.11	7	7.02	6.63	7.1	6.18	6.76	
specific conductance (µS/cm)	--	465	301	591	340	345	226	412	343	50	
temperature (degrees C)	--	10.3	10.2	13	12.6	9.88	10.34	12.88	12.89	9.38	
dissolved oxygen (mg/L)	--	3.69	2.57	1.22	3.65	5.19	6.3	4.48	3.81	2.7	
oxidation reduction potential (mV)	--	-41	4	-12	-17	163	32	-38	48	81	

Notes:

1 - Groundwater Standards are from Technical and Operational Guidance Series (TOGS) 1.1.1, June 1998. Amended in April 2000

♦ - Indicates higher value detected in the sample duplicate or during the dilution phase.

-- Indicates no NYS GA Groundwater Standard

F - Analyte was positively identified but the associated numerical value is below the reporting limit

N/A - Analyte was not analyzed during sampling

U - The analyte was analyzed for, but not detected. The associated numerical value is at or below the method detection limit.

Table 3-2
Tank Farms 1 and 3 Detected Analytical Results (continued)

Monitoring Well ID	NYSDEC	TF3MW-131							TF3MW-132						
Sample ID	GW	TF3M13117HB	TF3M13114IB	TF3M13115JB	TF3M13115KB	TF3M13114LB	TF3M13114MA		TF3M13217HB	TF3M13217IB	TF3M13217JB	TF3M13217KB	TF3M13217LB	TF3M13217MA	
Date of Collection	Standards[1]	11/25/2003	3/17/2004	6/17/2004	9/13/2004	12/30/2004	3/29/2005		11/25/2003	3/17/2004	6/17/2004	9/13/2004	12/30/2004	3/29/2005	
Sample Depth (ft)	(µg/L)	17	14	15	15	15	14		17	17	16	17	17	17	
VOCs (ug/L)															
1,2,4-trimethylbenzene	5	U	U	U	U	U	U		U	U	U	U	U	U	
1,3,5-trimethylbenzene	5	U	U	U	U	U	U		U	U	U	U	U	U	
acetone	5	U	U	1.5 F	U	U	U		U	U	1.8 F	1.9 F	U	U	
chloroform	7	0.34 F	U	0.55	0.4 F	0.47 F	0.3 F		0.93	U	0.79	0.63 B	0.57	0.78	
chloroethane	5	U	U	U	U	U	U		U	U	U	U	U	U	
cis-1,2-dichloroethylene	5	U	U	U	U	U	U		U	U	0.21 F	0.22 F	U	U	
sec - butylbenzene	5	U	U	U	U	U	U		U	U	U	U	U	U	
ethylbenzene	5	U	U	U	U	U	U		U	U	U	U	U	U	
isopropylbenzene	5	U	U	U	U	U	U		U	U	U	U	U	U	
methylene chloride	5	U	U	U	U	U	U		U	U	U	U	U	U	
p-isopropyltoluene	5	U	U	U	U	U	U		U	U	U	U	U	U	
n-butylbenzene	5	U	U	U	U	U	U		U	U	U	U	U	U	
n-propylbenzene	5	U	U	U	U	U	U		U	U	U	U	U	U	
naphthalene	10	U	U	U	U	U	U		U	U	U	U	U	U	
trichloroethylene	5	0.43 F	0.32 F	0.36 F	0.38 F	0.27 F	0.29 F		0.8 F	0.67 F	0.64 F	0.69 F	0.6 F	0.65 F	
t-butylbenzene	5	U	U	U	U	U	U		U	U	U	U	U	U	
m,p-xylene	5	U	U	U	U	U	U		U	U	U	U	U	U	
methylene chloride	5	U	U	U	U	U	U		U	U	U	U	U	U	
Total VOCs	--	0.77	0.32	2.41	0.78	0.74	0.59		1.73	0.67	3.44	3.44	1.17	1.43	
SVOCs (µg/L)															
2-methylnapthalene	--	U	U	N/S	N/S	N/S	N/S		U	U	N/S	N/S	N/S	N/S	
naphthalene	10	U	U	N/S	N/S	N/S	N/S		U	U	N/S	N/S	N/S	N/S	
Total SVOCs	--	0	0	N/S	N/S	N/S	N/S		0	0	N/S	N/S	N/S	N/S	
Wet Chemistry Data (mg/L)															
nitrate	10000	1	1.1	1.1	0.73	0.95	0.55		2	2	1.8	1.6	1.7	1.4	
sulfate	250000	16.7	14.9	N/S	N/S	N/S	N/S		19.3	20.4	N/S	N/S	N/S	N/S	
sulfide	--	U	0.26 F	N/S	N/S	N/S	N/S		U	U	N/S	N/S	N/S	N/S	
total alkalinity	--	416	146 B	200	226	187	222		346	182 B	268	236	233	237	
Field Parameters															
dissolved iron (mg/L)	--	0	N/A	0	0	0	0		0.8	0	0	0	0	0	
pH	--	5.9	6.89	6.98	7.46	6.57	6.65		6.02	7.18	7.13	7.31	6.57	7.01	
specific conductance (µS/cm)	--	626	80	0.11 *	84.8	65	0.1 *		682	66	63	76.7	90	0.071 *	
temperature (degrees C)	--	13.15	9.21	11	14.6	11.7	9		12.03	9.94	10.1	12.1	11.4	10.2	
dissolved oxygen (mg/L)	--	2.43	1.6	4.8	3.64	7.58	6.39		2.63	2.9	4.9	6.52	8.78	9.52	
oxidation reduction potential (mV)	--	249	169	59	154	141	152		274	169	77	269	118	204	

Monitoring well not sampled after March 2005

Notes:

1 - Groundwater Standards are from Technical and Operational Guidance Series (TOGS) 1.1.1, June 1998. Amended in April 2000

* - specific conductance is measured in S/m.

♦ - Indicates higher value detected in the sample duplicate or during the dilution phase.

-- Indicates no NYS GA Groundwater Standard

F - Analyte was positively identified but the associated numerical value is below the reporting limit

N/A - Analyte was not analyzed during sampling

N/S- Analyte was not sampled.

U - The analyte was analyzed for, but not detected. The associated numerical value is at or below the method detection limit.

Table 3-2
Tank Farms 1 and 3 Detected Analytical Results (continued)

Monitoring Well ID	NYSDEC	TF3MW-133										
Sample ID	GW	TF3M13316HB	TF3M13317IB	TF3M13316JB	TF3M13316KB	TF3M13316LB	TF3M13316MA	TF3M13316NA	TF3M13316OA	TF3M13316PA	TF3M13316RA	TF3M13316RA
Date of Collection	Standards[1]	11/25/2003	3/17/2004	6/17/2004	9/13/2004	12/30/2004	3/29/2005	3/28/2006	6/20/2006	9/29/2006	3/21/2007	3/20/2008
Sample Depth (ft)	(µg/L)	17	16	16	16	16	16	16	16	16	16	16
VOCs (ug/L)												
1,2,4-trimethylbenzene	5	80	72	49	15	12	9.3	22	9.2 ♦	2.88	4.16	U
1,3,5-trimethylbenzene	5	44	26	16	6.2	5.7	8.6	12	U	U	U	18.2 ♦
chloroethane	5	U	U	U	U	U	0.33 F	U	U	U	U	U
cis-1,2-dichloroethylene	5	U	U	U	U	U	U	U	U	U	U	U
sec - butylbenzene	5	11	12	8.4	4.8	4.1	6.3	5.9	8.3 ♦	4.53	5.77 J	4.82 ♦
ethylbenzene	5	U	0.73 F	0.97 F	U	U	0.2 F	0.38 F	0.31 F ♦	0.16	0.25 F	0.28 F ♦
isopropylbenzene	5	13	20	14	5.3	4.3	6.8	8.5	11 ♦	5.16	6.75 J	9.75 ♦
methylene chloride	5	2.9 B	0.56 F	1.8 F	U	U	U	U	U	U	U	U
p-isopropyltoluene	5	18	3.5	1.9 F	0.8 F	0.88 F	1.5	2.4	2.2 ♦	1.29	1.53	2.21 ♦
n-butylbenzene	5	5.1	3.1	1.8 F	0.77 F	0.68 F	1.4	0.83 F	2.2 ♦	1.19	0.83 F	1.02 ♦
n-propylbenzene	5	16	20	14	6.6	5.4	7.6	8.7	13 ♦	6.59	7.61 J	10.4 ♦
naphthalene	10	3.7	5.2	3	0.87 F	0.98 F	1.6	1.6	2.5 B ♦	2.09	2.1 J	1.69
trichloroethylene	5	U	U	U	U	U	U	U	U	U	U	U
t-butylbenzene	5	1.9	1.3 F	1 F	0.54 F	0.45 F	0.75 F	0.66 F	1 ♦	0.92	0.6 F	0.71 F ♦
m,p-xylene	5	8.2	5	3.4 F	1.2 F	0.95 F	1 F	1.3	1.1 F ♦	0.49	0.6 F	0.7 F ♦
methylene chloride	5	U	U	U	U	U		U	U	U	0.29 F	U
Total VOCs	--	200.9	169.39	115.27	42.08	35.44	38.08	62.97	50.81	25.3	30.39	49.78
SVOCs (µg/L)												
2-methylnapthalene	--	15	9 F	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S
naphthalene	10	3 F	3 F	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S
Total SVOCs	--	18	12 F	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S
Wet Chemistry Data (mg/L)												
nitrate	10000	0.064	0.45	0.14	0.098	0.59	U	N/S	N/S	N/S	N/S	N/S
sulfate	250000	36.8	9.4	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S
sulfide	--	U	U	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S
total alkalinity	--	310	153 B	263	223	226	272	N/S	273	330	300 ♦	N/S
Field Parameters												
dissolved iron (mg/L)	--	0.8	1.8	3.3	2.8	2	3.2	0.7	0.4	0.4	0.7	0
pH	--	6.61	7.05	7.15	7.29	6.09	6.98	7.22	7.51	6.71	7.89	6.55
specific conductance (µS/cm)	--	542	41	58	62.7	62	70	82.4	94	67	61.3	54.3
temperature (degrees C)	--	11.63	8.12	9.7	12.7	11	8.9	8.95	10.3	13.2	9.2	9.19
dissolved oxygen (mg/L)	--	1.1	2.8	4.1	3.82	8.41	6.89	4.65	280	4.76	4.65	6.67
oxidation reduction potential (mV)	--	-101	-37	-96	-94	-31	32	-60	90	164	-16	65

Notes:

1 - Groundwater Standards are from Technical and Operational Guidance Series (TOGS) 1.1.1, June 1998. Amended in April 2000

* - specific conductance is measured in S/m.

♦ - Indicates higher value detected in the sample duplicate or during the dilution phase.

-- Indicates no NYS GA Groundwater Standard

F - Analyte was positively identified but the associated numerical value is below the reporting limit

N/S- Analyte was not sampled.

U - The analyte was analyzed for, but not detected. The associated numerical value is at or below the method detection limit.

Figure 3-3
Tank Farms 1 and 3 SRA VOC Concentrations and Groundwater Elevation Trends

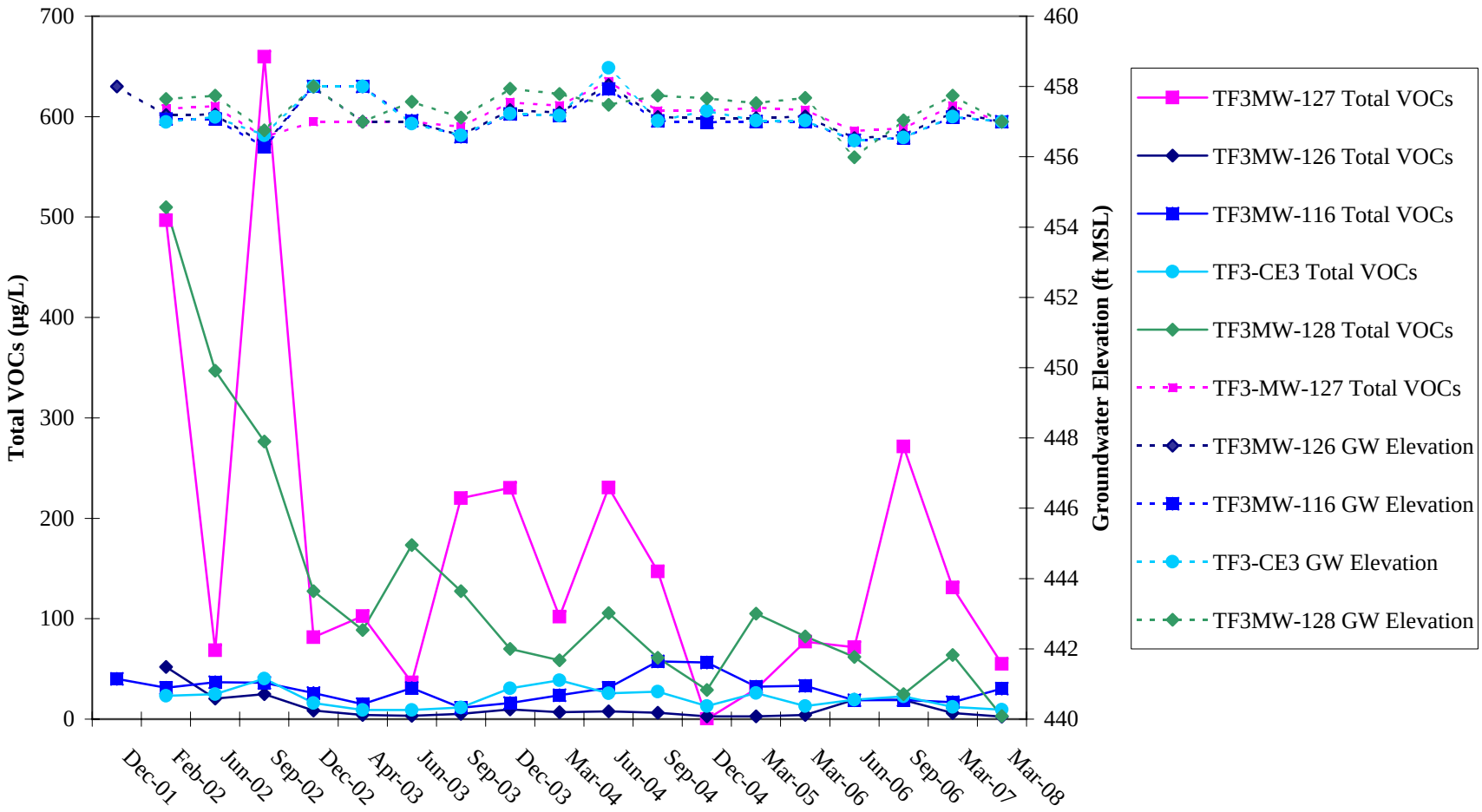
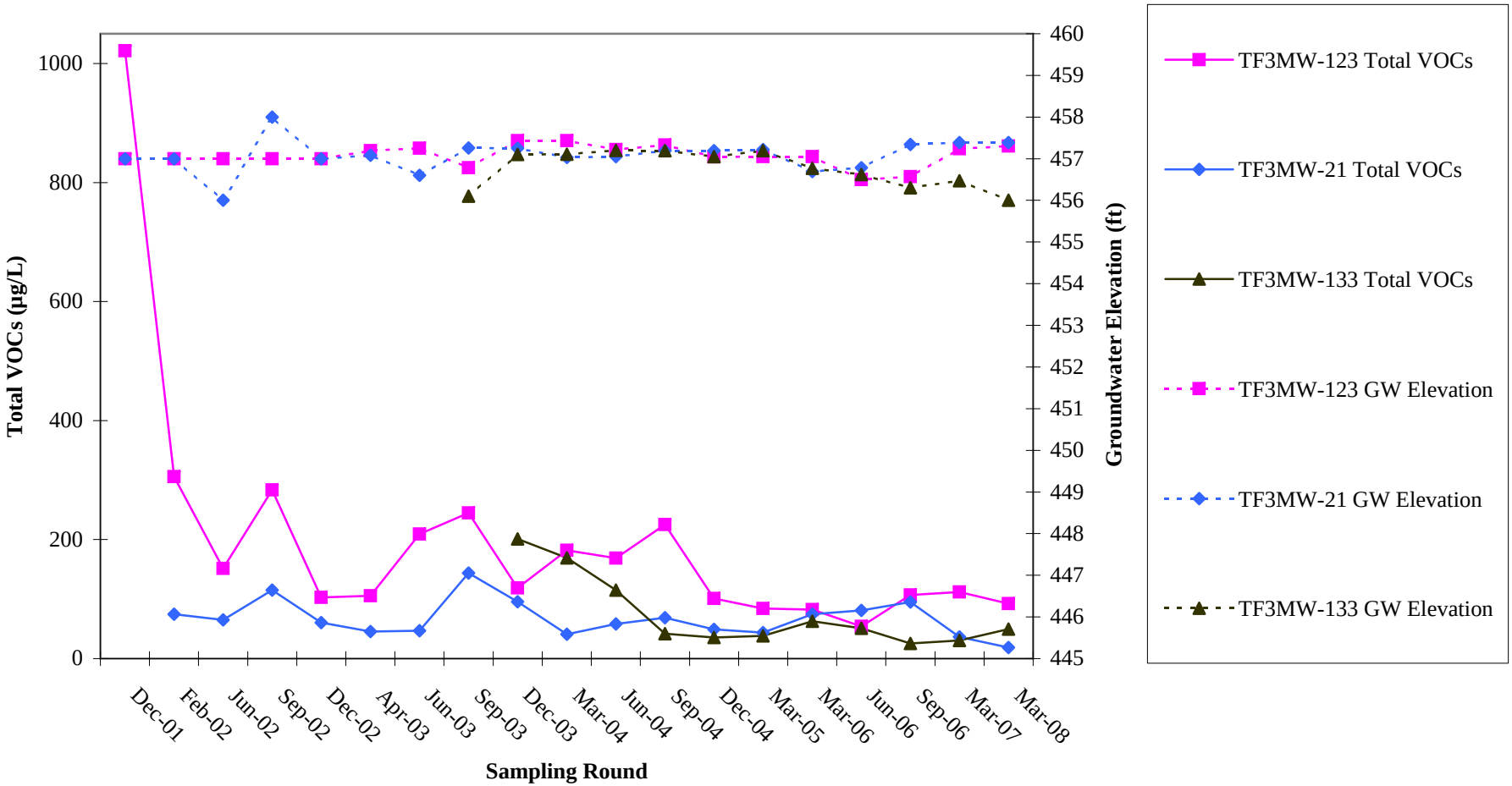


Figure 3-4
Tank Farms 1 and 3 SRA VOC Concentrations and Groundwater Elevation Trends



March 2008

VOC contaminated groundwater plumes are shown on Figure 3-2. Two plumes from two source areas have stabilized and are attenuating. The plume located near monitoring wells TF3MW-127, -128, and -133 is associated with former UST 147-1 through 4, while the second plume is located in the vicinity of TF3MW-21, -116, -123 and decommissioned well TF3MW-125, where the source was most likely former USTs 114-1 through -8 and the former truck maintenance shed that was located north of Building 3 (possibly near TF3MW-123 and -125).

Monitoring wells TF3-CE3, TF3MW-21,-116, -123, -127, and -133 contained VOC exceedances. The only areas with residual contamination are in the vicinity of TF3MW-127, and at TF3MW-123 located on Brooks Rd. These areas have been previously injected with ORC® and have shown measured attenuation over time. In addition temporary biosparging has taken place at TF3MW-123 and -127. Most of the contaminants at the site have attenuated to within one order of magnitude of the applicable groundwater standard.

3.5 CONCLUSIONS AND RECOMMENDATIONS

The 2002 source removal excavation (Parsons, December 2003) positively affected localized groundwater conditions. The original LTM plan is summarized in Table 3-1. In Fall 2005, ORC® Advanced was injected into the source area of Tank Farms 1 & 3 near TF3MW-128 (as shown on Figure 3-2) and added to monitoring wells TF3MW-21, -116, -117, -118R, -121R and -123 by the use of ORC® socks. In summer 2006, additional ORC® was injected in the vicinity of monitoring wells TF3MW-133, TF3MW-123 and former well TF3MW-125 to promote biodegradation. An intermittent application of mobile biosparging at the most contaminated wells (TF3MW-123, and -127) enhances bioremediation and speeds groundwater cleanup. Previous sampling rounds have shown that the bioremediation process appears to be electron-acceptor limited at the site. Iron reduction appears to be the remaining indicator of microbial degradation at wells TF3MW-123 and -21 at the Tank Farms 1&3 site. Many of the perimeter wells have shown no contamination for several years and were removed from the sampling list. An optimized LTM network is listed in Table 3-3 and shown on Figure 3-2.

Monitoring wells TF3MW-123, -127, and -133 appear to be the remaining contaminated wells, with VOC contamination that is primarily isopropylbenzene, ethylbenzene, and 1,2,4-trimethylbenzene. Contaminant levels are generally within one order of magnitude from the groundwater standard and appear to be attenuating naturally. Downgradient sampling locations showed no increases in contamination. Based on the December 2001 through March 2008 sampling rounds and review of analytical results, two groundwater plumes exist as shown on Figure 3-2. Site closure is expected once residual contamination areas surrounding TF3MW-123, -127, and -133 are fully attenuated and all associated analytical data is below NYS Class GA Groundwater Standards.

Table 3-3
Tank Farms 1 and 3 Proposed Future LTM Sampling

Sampling Locations	Sampling Rationale	Target Analytes/ Method Numbers	Sampling Frequency	Evaluation Criteria/ Modification Justification
TF3-CE3 TF3MW-21 TF3MW-116 TF3MW-123 TF3MW-127 TF3MW-128 TF3MW-133	Within plume Within plume Within plume Within plume Within plume Within plume Within plume	VOCs (AFCEE QAPP 4.0 List)/SW8260	Annually	The plume is stable.
Recommended LTM Changes				
September 2008				
Removed Sampling Locations				
TF3MW-117 TF3MW-126 TF3MW-119R TF3MW-121R	Crossgradient of plume Crossgradient of plume Downgradient of plume Downgradient of plume	VOCs (AFCEE QAPP 4.0 List)/SW8260	Annually	The plume is stable and consistently contains contamination at or below the NYSDEC Class GA groundwater Standards, historical analysis shows that wells are no longer needed to track contamination.
September 2007				
Analysis Changes				
All sampled wells	_ _	Alkalinity/310.2	Annually	Analysis is no longer needed

Table 3-3 (continued)
Tank Farms 1 and 3 Proposed Future LTM Sampling

Sampling Locations	Sampling Rationale	Target Analytes/ Method Numbers	Sampling Frequency	Evaluation Criteria/ Modification Justification
Historical LTM Network Changes				
June 2006 Analysis/Frequency Change				
TF3MW-119R TF3MW-121R	Downgradient of plume Downgradient of plume	SVOCs/SW8270	_ _	SVOCs were not identified at these wells following six sampling rounds. SVOC sampling is no longer needed.
All sampled wells	_ _	Nitrate/353.2		Nitrate is no longer a useful biodegradation indicator at the Tank Farms 1 and 3 site, and will not be sampled after the Winter 2006 sampling round.
November 2005 Removed Sampling Locations				
TF3MW-131 TF3MW-132	Upgradient of plume Upgradient of plume			Previous quarterly LTM samples indicate that no contamination is present and additional groundwater sampling is not needed.
February 2005 Removed Sampling Locations				
TF3MW-124 TF3MW-129 TF3MW-130	Crossgradient of plume Upgradient of plume Upgradient of plume			Previous quarterly LTM samples indicate that no contamination is present and additional groundwater sampling is not needed.
June 2004				
Analysis/Frequency Changes				
All sampled wells	_ _	Sulfate/376.3 Sulfide/375.4	_ _	Sulfate reduction is depleted and will no longer be sampled during June 2004 round.

Table 3-3 (continued)
Tank Farms 1 and 3 Proposed Future LTM Sampling

Sampling Locations	Sampling Rationale	Target Analytes/ Method Numbers	Sampling Frequency	Evaluation Criteria/ Modification Justification
Added Sampling Locations				
TF3MW-119R TF3MW-121R	Downgradient of plume Downgradient of plume	VOCs and SVOCs(AFCEE QAPP 3.1 List)/SW8260 and SW8270 Alkalinity/310.2 Nitrate/353.2	Quarterly	Quarterly monitoring with semi-annual evaluation and recommendations. SVOC analysis was added due to previous identification of SVOC contamination. Monitoring well locations were replacements for previous well locations.
Removed Sampling Locations				
TF3MW-118 TF3MW-119 TF3MW-120 TF3MW-121	Downgradient of plume Downgradient of plume Downgradient of plume Downgradient of plume	VOCs (AFCEE QAPP 3.1 List)/SW8260	Quarterly	Decomissioned March 2002 due to site construction. Its
TF3MW-1 TF3MW-25 TF3MW-125	Within plume Crossgradient of plume Within plume	VOCs (AFCEE QAPP 3.1 List)/SW8260	Quarterly	Destroyed 2003 due to site construction.

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4 REFERENCES

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AFCEE (Air Force Center for Environmental Excellence). Quality Assurance Project Plan, Version 4.0, February 2005.

E&E, Basewide Environmental Baseline Survey Supplement (Update 3), Griffiss AFB, New York, December 1997.

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FPM, Draft Supplemental Study Report Tank Farms 1 and 3 Source Removal Area of Concern, September 2000.

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FPM, Field Sampling Plan, Long Term Monitoring Program at the Former Griffiss Air Force Base, June 2003.

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Law Engineering and Environmental Services, Inc., Draft Final Primary Report, Remedial Investigation at Griffiss Air Force Base, December 1996.

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NYSDEC, Interim Procedures for Inactivation of Petroleum-Impacted Sites, January 1997.

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NYSDEC, TAGM 4046, Determination of RSCOs and Cleanup Levels, January 1994.

Parsons, Remedial Action Report for Source Removal Area of Concern, AOC SS-20 Tank Farms 1 & 3 at the Former Griffiss AFB, Rome, NY, December 2003.

Tetra Tech, Basewide Environmental Baseline Survey, Griffiss AFB, New York, September 1994.

Weston, Roy F., Subsurface Investigations At Tank Farms 1 and 3, November 1985 (Note: document was contained in Appendix D of the Engineering Evaluation. Cost Analysis Report for Tank Farms 1 and 3).

Daily Chemical Quality Control Report

Project/Delivery Order Number: F41624-03-D-8601-0027 Date: 3/20/08

Project Name/Site Number: Griffiss Petroleum Spills Sites sampling (Tank Farms 1 and 3).

Weather conditions: Temperature: 38 Barometric reading: 29.64
Wind direction and speed: Northwest 7.8 mph
Significant wind changes: None.

General description of tasks completed: Bailer sampling at Site Tank Farms 1 and 3 (TF3MW-21, -116, -117, -123, -126, -127, -128, -133, and -CE).

Explain any departures from the SAP or deviations from approved procedures during the day's field activities: Monitoring wells TF2MW-119R and -121R were not sampled because they were under water.

Explain any technical problems encountered in the field or field equipment/field analytical instrument malfunction: None.

Corrective actions taken or instructions obtained from AFCEE personnel: No corrective actions necessary.

Sampling shipment completed: √ Yes □ No LSL Courier.

DCQCR Prepared by: Niels van Hoesel, FOM Date: 31 March 2008

CQCC Signature: Concordia van Hoesel Date: 4/2/08

ATTACHMENTS:

Checklist	Daily Chemical Quality Control Report Attachments
√	✓ Field sampling forms
√	✓ Equipment Calibration Log
√	✓ Copies of COCs
	✓ SDG Table (See accompanying COCs)
√	✓ Daily Health and Safety Meeting Form

WELL PURGING & SAMPLING FORM

Project: 40-05-27 Sampled by: CS-DF

Location and Site Code (SITEID): Tank Farm

Well No. (LOCID): MW-CE Well Diameter (SDIAM): 4in

Date (LOGDATE): 3.20.08 Weather: Cloudy, Rainy 30°

CASING VOLUME INFORMATION:

Casing ID (inch)	1.0	1.5	2.0	2.2	3.0	4.0	4.3	5.0	6.0	7.0	
Unit Casing Volume (A) (gal/ft)	0.04	0.09	0.16	0.2	0.37	0.65	0.75	1.0	1.5	2.0	2.6

PURGING INFORMATION:

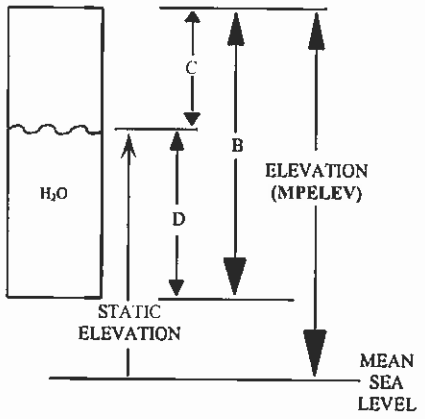
Measured Well Depth (B) (TOTDEPTH) 27.5 ft.

Measured Water Level Depth (C) (STATDEP) 11.9 ft.

Length of Static Water Column (D) = 27.5 (B) - 11.9 (C) = 15.6 (D) ft.

Casing Water Volume (E) = .65 (A) x 15.6 (D) = 10.14 gal

Minimum Purge Volume = 30.42 gal (3 well volumes)



Purge Date and Method: Bailer

Physical Appearance/Comments: Dark grey, ~~silty~~ CS petso odor, water gets cleaner Fe: 2.5

FIELD MEASUREMENTS:

Allowable Range:		± 0.1	± 5%	±1°C			
Time	Volume Removed (gal)	pH	EC (mS/cm)	Temp. (F or C)	Turbidity (NTU)	D.O. (mg/L)	ORP (mV)
1007	5	6.55	72	8.5	>999	6.94	31
1012	10	6.54	76	9.6	>999	4.67	-53
1018	15	6.71	77	9.5	969	3.20	-83
1023	20	6.78	77	9.5	930	5.76	-80
1027	25	6.80	78	9.6	>999	3.96	-94
1032	30	6.84	78	9.8	>999	5.92	-97

Sample Time: 1035 Sample ID: TF3CE3125A

Note: Attempt to get at least 5 sets of field measurements during purging. Sample may be collected after 3 to 5 well volumes have been removed and parameters have stabilized. Sample may be collected after 6 well volumes if parameters do not stabilize. VOC and gas sensitive (e.g. alkalinity, Fe^{2+}, CH_4, H_2S) parameters should be sampled first.

WELL PURGING & SAMPLING FORM

Project: 40.05.27 Sampled by: TP/JW

Location and Site Code (**SITEID**): TF 1+3

Well No. (**LOCID**): WL-TF3MW-21 Well Diameter (**SDIAM**): 4"

Date (**LOGDATE**): 3.2008 Weather: 25°/OVERCAST

CASING VOLUME INFORMATION:

Casing ID (inch)	1.0	1.5	2.0	2.2	3.0	4.0	4.3	5.0	6.0	7.0	
Unit Casing Volume (A) (gal/ft)	0.04	0.09	0.16	0.2	0.37	0.65	0.75	1.0	1.5	2.0	2.6

PURGING INFORMATION:

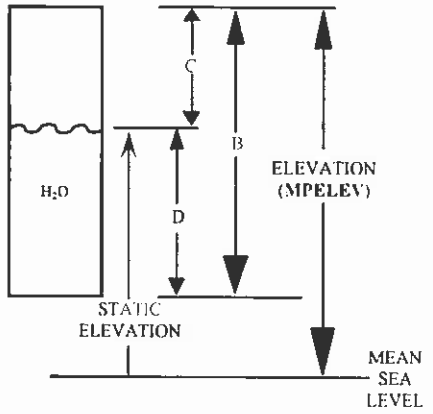
Measured Well Depth (B) (**TOTDEPTH**) 26.26 ft.

Measured Water Level Depth (C) (**STATDEP**) 13.30 ft

Length of Static Water Column (D) = ____ (B) - ____ (C) = 12.96 (D) ft

Casing Water Volume (E) = ____ (A) x ____ (D) = 8.424 gal

Minimum Purge Volume = 25.27 gal (3 well volumes)



Purge Date and Method: Bailer

Physical Appearance/Comments: FE 3# / clear / slight petro odor

FIELD MEASUREMENTS:

Allowable Range: ± 0.1 ± 5% ±1°C

Time	Volume Removed (gal)	pH	EC (mS/cm)	Temp. (F or C)	Turbidity (NTU)	D.O. (mg/L)	ORP (mV)
1128	5	7.16	0.111	10.27	168	3.95	-87
1132	10	7.25	94.8	10.93	69.1	1.05	-104
1136	15	7.29	89.7	10.87	90.4	1.23	-116
1140	20	7.33	85.6	10.83	78.4	0.0	-121
1144	25	7.37	82.0	10.85	84.9	0.0	-124
1146	27.5	7.36	84.2	10.83	89.0	0.53	-124

Sample Time: 1150 Sample ID: TF3MW2113SA

Note: Attempt to get at least 5 sets of field measurements during purging. Sample may be collected after 3 to 5 well volumes have been removed and parameters have stabilized. Sample may be collected after 6 well volumes if parameters do not stabilize. VOC and gas sensitive (e.g. alkalinity, Fe^{2+}, CH_4, H_2S) parameters should be sampled first.

WELL PURGING & SAMPLING FORM

Project: 40.05.27 Sampled by: JP/JW

Location and Site Code (**SITEID**): TF 123

Well No. (**LOCID**): MW-TF3MW-116 Well Diameter (**SDIAM**): 2"

Date (**LOGDATE**): 3.20.08 Weather: 25°/overcast

CASING VOLUME INFORMATION:

Casing ID (inch)	1.0	1.5	2.0	2.2	3.0	4.0	4.3	5.0	6.0	7.0	
Unit Casing Volume (A) (gal/ft)	0.04	0.09	0.16	0.2	0.37	0.65	0.75	1.0	1.5	2.0	2.6

PURGING INFORMATION:

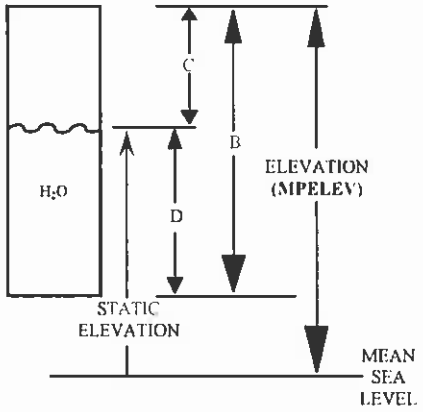
Measured Well Depth (B) (**TOTDEPTH**) 21.39 ft.

Measured Water Level Depth (C) (**STATDEP**) 12.60 ft.

Length of Static Water Column (D) = ____ (B) - ____ (C) = 6.79 (D) ft.

Casing Water Volume (E) = ____ (A) x ____ (D) = 1.4064 gal

Minimum Purge Volume = 4.21 gal (3 well volumes)



Purge Date and Method: Bailer

Physical Appearance/Comments: FE- 2.6 / slight petro odor

FIELD MEASUREMENTS:

Allowable Range: ± 0.1 ± 5% ±1°C

Time	Volume Removed (gal)	pH	EC (mS/cm)	Temp. (F or C)	Turbidity (NTU)	D.O. (mg/L)	ORP (mV)
1209	.75	7.34	61.2	9.58	719	9.43	-8
1210	1.5	7.29	.096	9.90	282	7.39	-87
1211	2.25	7.28	90.5	10.13	222	6.84	-108
1212	3.0	7.28	92.1	10.16	208	5.49	-117
1213	3.75	7.29	91.9	10.18	165	10.12	-123
1214	4.5	7.27	94.9	10.18	152	9.73	-123

Sample Time: 1215 Sample ID: TF3MW11613 SA

Note: Attempt to get at least 5 sets of field measurements during purging. Sample may be collected after 3 to 5 well volumes have been removed and parameters have stabilized. Sample may be collected after 6 well volumes if parameters do not stabilize. VOC and gas sensitive (e.g. alkalinity, ~~Fe^{2+}~~, ~~CH_4~~, ~~H_2S~~) parameters should be sampled first.

WELL PURGING & SAMPLING FORM

Project: 40.05.27 Sampled by: SP/SW

Location and Site Code (**SITEID**): TF143

Well No. (**LOCID**): WL-TF3MW-117 Well Diameter (**SDIAM**): 2"

Date (**LOGDATE**): 7.20.08 Weather: 25°/overcast

CASING VOLUME INFORMATION:

Casing ID (inch)	1.0	1.5	2.0	2.2	3.0	4.0	4.3	5.0	6.0	7.0	
Unit Casing Volume (A) (gal/ft)	0.04	0.09	0.16	0.2	0.37	0.65	0.75	1.0	1.5	2.0	2.6

PURGING INFORMATION:

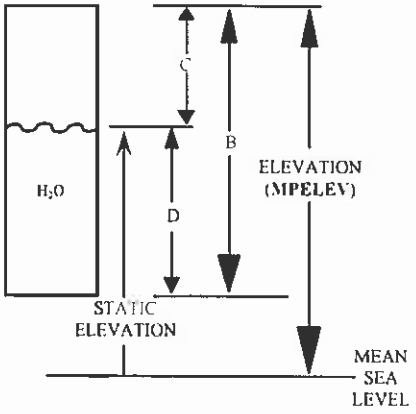
Measured Well Depth (B) (**TOTDEPTH**) 18.37 ft.

Measured Water Level Depth (C) (**STATDEP**) 10.02 ft.

Length of Static Water Column (D) = ____ (B) - ____ (C) = 8.35 (D) ft.

Casing Water Volume (E) = ____ (A) x ____ (D) = 1.336 gal

Minimum Purge Volume = 4.008 gal (3 well volumes)



Purge Date and Method: BAILER

Physical Appearance/Comments: FE - 3.2 / silty orange - petro odor

FIELD MEASUREMENTS:

Allowable Range:		± 0.1	± 5%	±1°C			
Time	Volume Removed (gal)	pH	EC (mS/cm)	Temp. (F or C)	Turbidity (NTU)	D.O. (mg/L)	ORP (mV)
1234	.25	7.25	0.107	8.72	>999	10.08	55
1236	1.25	7.18	0.121	8.83	487	2.59	-50
1237	2.25	7.17	0.122	8.82	172	1.84	-76
1238	3.25	7.17	0.122	8.72	149	2.43	-84
1239	4.25	7.18	0.122	8.76	88.9	1.12	-96

Sample Time: 1240 Sample ID: TF3MW117 10 SA

Note: Attempt to get at least 5 sets of field measurements during purging. Sample may be collected after 3 to 5 well volumes have been removed and parameters have stabilized. Sample may be collected after 6 well volumes if parameters do not stabilize. VOC and gas sensitive (e.g. alkalinity, Fe^{2+}, CH_4, H_2S) parameters should be sampled first.

WELL PURGING & SAMPLING FORM

Project: 40-05-27 Sampled by: DA/CS

Location and Site Code (**SITEID**): Tank Farm

Well No. (**LOCID**): TF3 MW-123 Well Diameter (**SDIAM**): 2 in

Date (**LOGDATE**): 3-20-08 Weather: Cloudy 30°

CASING VOLUME INFORMATION:

Casing ID (inch)	1.0	1.5	2.0	2.2	3.0	4.0	4.3	5.0	6.0	7.0	
Unit Casing Volume (A) (gal/ft)	0.04	0.09	0.16	0.2	0.37	0.65	0.75	1.0	1.5	2.0	2.6

PURGING INFORMATION:

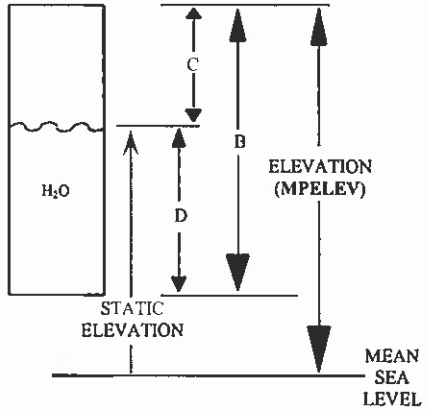
Measured Well Depth (B) (**TOTDEPTH**) 20.8 ft.

Measured Water Level Depth (C) (**STATDEP**) 12.61 ft.

Length of Static Water Column (D) = ____ (B) - ____ (C) = 8.19 (D) ft.

Casing Water Volume (E) = ____ (A) x ____ (D) = 1.31 gal

Minimum Purge Volume = 3.93 gal (3 well volumes)



Purge Date and Method: Bailer.

Physical Appearance/Comments: Clear with slight orange and heavy Petro odor. Fe 3

FIELD MEASUREMENTS:

Allowable Range: ± 0.1 ± 5% ±1°C

Time	Volume Removed (gal)	pH	EC (mS/cm)	Temp. (F or C)	Turbidity (NTU)	D.O. (mg/L)	ORP (mV)
1106	.75	6.89	0.12	8.0	660	3.59	-4
1108	1.5	6.90	0.12	8.9	510	3.61	-47
1109	2.25	6.90	0.12	9.0	560	4.46	-61
1111	3	6.90	0.12	9.2	460	6.78	-66
1117	~~3.75~~ 4	6.92	0.12	9.0	510	8.77	-69

Sample Time: 1117 Sample ID: TF3M123135A/SC/SS/SD

Note: Attempt to get at least 5 sets of field measurements during purging. Sample may be collected after 3 to 5 well volumes have been removed and parameters have stabilized. Sample may be collected after 6 well volumes if parameters do not stabilize. VOC and gas sensitive (e.g. alkalinity, Fe^{2+}, CH_4, H_2S) parameters should be sampled first.

WELL PURGING & SAMPLING FORM

Project: 40-05-27 Sampled by: CS-DF

Location and Site Code (**SITEID**): Tank Farm

Well No. (**LOCID**): TF3 MW-126 Well Diameter (**SDIAM**): 2 in.

Date (**LOGDATE**): 3-20-08 Weather: Cloudy, 30°

CASING VOLUME INFORMATION:

Casing ID (inch)	1.0	1.5	2.0	2.2	3.0	4.0	4.3	5.0	6.0	7.0	
Unit Casing Volume (A) (gal/ft)	0.04	0.09	0.16	0.2	0.37	0.65	0.75	1.0	1.5	2.0	2.6

PURGING INFORMATION:

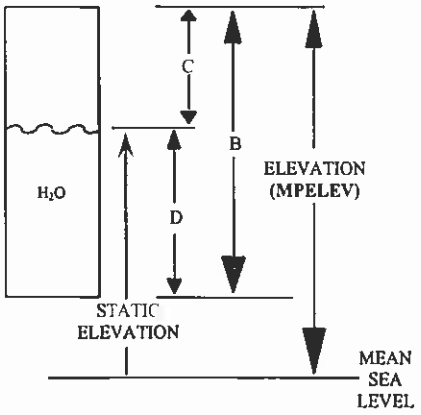
Measured Well Depth (B) (**TOTDEPTH**) 20.9 ft.

Measured Water Level Depth (C) (**STATDEP**) 12.5 ft.

Length of Static Water Column (D) = ____ (B) - ____ (C) = 8.4 (D) ft.

Casing Water Volume (E) = ____ (A) x ____ (D) = 1.346 gal

Minimum Purge Volume = 4.032 gal (3 well volumes)



Purge Date and Method: Bailer

Physical Appearance/Comments: Orange, Petro odor FE=2

FIELD MEASUREMENTS:

Allowable Range: ± 0.1 ± 5% ±1°C

Time	Volume Removed (gal)	pH	EC (mS/cm)	Temp. (F or C)	Turbidity (NTU)	D.O. (mg/L)	ORP (mV)
0929	CSE .75	5.89	73	8.3	>999	4.96	268
0931	1.5	6.00	71	8.8	>999	4.88	186
0932	2.25	6.16	70	9.2	590	4.95	104
0934	3	6.16	70	9.1	640	4.56	16
0935	3.75	6.18	69	9.2	580	6.00	17
0936	4.5	6.28	69	9.2	620	5.33	-31

Sample Time: 0943 Sample ID: TF3M126135A

Note: Attempt to get at least 5 sets of field measurements during purging. Sample may be collected after 3 to 5 well volumes have been removed and parameters have stabilized. Sample may be collected after 6 well volumes if parameters do not stabilize. VOC and gas sensitive (e.g. alkalinity, Fe^{2+}, CH_4, H_2S) parameters should be sampled first.

WELL PURGING & SAMPLING FORM

Project: 40-05-27 Sampled by: DP/TW

Location and Site Code (**SITEID**): TF 143

Well No. (**LOCID**): WL-TF3MW-127 Well Diameter (**SDIAM**): 2"

Date (**LOGDATE**): 3.20.08 Weather: OVERCAST / 25°

CASING VOLUME INFORMATION:

Casing ID (inch)	1 0	1 5	2 0	2 2	3 0	4 0	4 3	5 0	6 0	7 0	
Unit Casing Volume (A) (gal/ft)	0 04	0 09	0 16	0 2	0.37	0.65	0.75	1 0	1 5	2 0	2 6

PURGING INFORMATION:

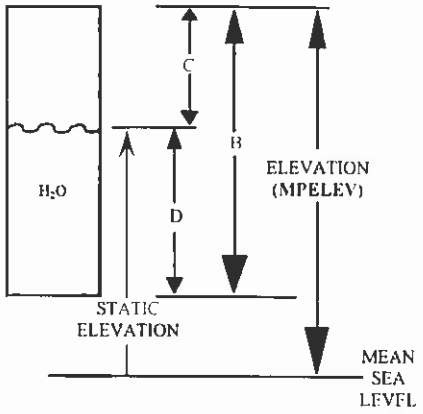
Measured Well Depth (B) (**TOTDEPTH**) 19.86 ft.

Measured Water Level Depth (C) (**STATDEP**) 12.23 ft.

Length of Static Water Column (D) = ____ (B) - ____ (C) = 7.63 (D) ft.

Casing Water Volume (E) = ____ (A) x ____ (D) = 1.22 gal

Minimum Purge Volume = 3.66 gal (3 well volumes)



Purge Date and Method: BAILER

Physical Appearance/Comments: FE- 0.0 / Clear

FIELD MEASUREMENTS:

Allowable Range: ± 0.1 ± 5% ±1°C

Time	Volume Removed (gal)	pH	EC (mS/cm)	Temp. (F or C)	Turbidity (NTU)	D.O. (mg/L)	ORP (mV)
1057	.75	6.85	86.2	7.60	98.2	8.62	324
1100	1.5	6.96	80.5	8.02	112.0	6.42	305
1101	2.25	6.91	77.4	8.29	143	4.26	291
1102	3.0	6.93	76.2	8.60	130	3.73	269
1103	3.75	6.95	77.0	8.41	130	3.12	243

Sample Time: 1110 Sample ID: TF3MW127RSA

Note: Attempt to get at least 5 sets of field measurements during purging. Sample may be collected after 3 to 5 well volumes have been removed and parameters have stabilized. Sample may be collected after 6 well volumes if parameters do not stabilize. VOC and gas sensitive (e.g. alkalinity, Fe^{2+}, CH_4, H_2S) parameters should be sampled first.

WELL PURGING & SAMPLING FORM

Project: 40-05-27 Sampled by: TP/TW

Location and Site Code (**SITEID**): TF 1+3

Well No. (**LOCID**): GW-TF3MW-128 Well Diameter (**SDIAM**): 2"

Date (**LOGDATE**): 8.20.08 Weather: OVERCAST / 78°

CASING VOLUME INFORMATION:

Casing ID (inch)	1.0	1.5	2.0	2.2	3.0	4.0	4.3	5.0	6.0	7.0	
Unit Casing Volume (A) (gal/ft)	0.04	0.09	0.16	0.2	0.37	0.65	0.75	1.0	1.5	2.0	2.6

PURGING INFORMATION:

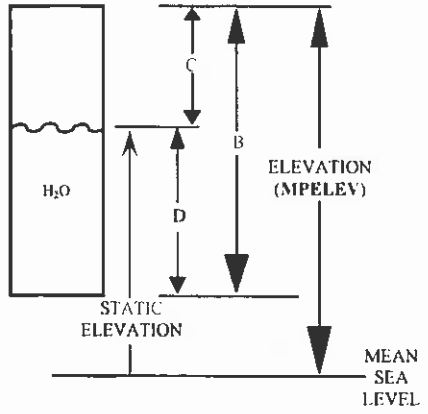
Measured Well Depth (B) (**TOTDEPTH**) 20.05 ft.

Measured Water Level Depth (C) (**STATDEP**) 12.67 ft

Length of Static Water Column (D) = ___ (B) - ___ (C) = 7.38 (D) ft.

Casing Water Volume (E) = ___ (A) x ___ (D) = 1.1808 gal

Minimum Purge Volume = 3.54 gal (3 well volumes)



Purge Date and Method: BAILER

Physical Appearance/Comments: FE - 0.0 / Silty Brown no odor

FIELD MEASUREMENTS:

Allowable Range: ± 0.1 ± 5% ±1°C

Time	Volume Removed (gal)	pH	EC (mS/cm)	Temp. (F or C)	Turbidity (NTU)	D.O. (mg/L)	ORP (mV)
1026	.75	6.84	52.3	7.65	>999	10.38	266
1027	1.5	6.94	52.7	7.60	>999	10.02	272
1028	2.25	6.99	53.0	7.94	232	8.55	276
1029	3.0	6.93	53.9	8.15	59.6	10.16	278
1030	3.75	6.96	54.1	8.24	37.2	7.84	283

Sample Time: 1040 Sample ID: TF3MW08135A

Note: Attempt to get at least 5 sets of field measurements during purging. Sample may be collected after 3 to 5 well volumes have been removed and parameters have stabilized. Sample may be collected after 6 well volumes if parameters do not stabilize. VOC and gas sensitive (e.g. alkalinity, Fe^{2+}, CH_4, H_2S) parameters should be sampled first.

WELL PURGING & SAMPLING FORM

Project: 40-05-27 Sampled by: DP/JW

Location and Site Code (**SITEID**): TF 143

Well No. (**LOCID**): NL-TF3MW-133 Well Diameter (**SDIAM**): 2"

Date (**LOGDATE**): 3.20.08 Weather: OVERCAST / 25-30°

CASING VOLUME INFORMATION:

Casing ID (inch)	1.0	1.5	2.0	2.2	3.0	4.0	4.3	5.0	6.0	7.0	
Unit Casing Volume (A) (gal/ft)	0.04	0.09	0.16	0.2	0.37	0.65	0.75	1.0	1.5	2.0	2.6

PURGING INFORMATION

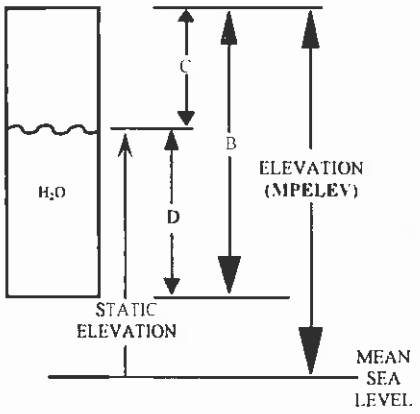
Measured Well Depth (B) (**TOTDEPTH**) 22.15 ft.

Measured Water Level Depth (C) (**STATDEP**) 15.31 ft.

Length of Static Water Column (D) = (B) 22.15 - (C) 15.31 = (D) 6.84 ft.

Casing Water Volume (E) = (A) 0.16 x (D) 6.84 = 1.094 gal

Minimum Purge Volume = 3.283 gal (3 well volumes)



Purge Date and Method: BAILER

Physical Appearance/Comments: FE- 0.1

FIELD MEASUREMENTS:

Allowable Range:		± 0.1	± 5%	±1°C			
Time	Volume Removed (gal)	pH	EC (mS/cm)	Temp. (F or C)	Turbidity (NTU)	D.O. (mg/L)	ORP (mV)
0944	.25	5.78	32.7	8.66	126	11.15	335
0945	1.00	5.79	32.5	8.51	248	9.39	327
0947	1.75	5.79	36.1	8.79	101	5.43	313
0949	2.5	6.00	40.4	9.03	35.5	6.32	260
0951	3.25	6.28	44.9	8.85	77.4	4.29	185
0952	4.0	6.28	48.3	9.06	83.6	5.55	137
0955	4.75	6.38	50.5	9.04	54.1	4.80	110
0957	5.5	6.46	52.3	9.25	57.8	6.66	80
0959	6.3	6.55	54.3	9.19	171	6.67	69
		6 WELL VOLUMES REMOVED					

Sample Time: 1000 Sample ID: TF3MW133 155A/SC

Note: Attempt to get at least 5 sets of field measurements during purging. Sample may be collected after 3 to 5 well volumes have been removed and parameters have stabilized. Sample may be collected after 6 well volumes if parameters do not stabilize. VOC and gas sensitive (e.g. alkalinity, Fe^{2+}, CH_4, H_2S) parameters should be sampled first.

Equipment Calibration Log

Instrument Name: Horiba U-22

Model Number: FPM #2

Date	First Standard Concentration	First Standard Reading	Second Standard Concentration	Second Standard Reading	Comments
6-19	4.00	3.91	4.00	4.00	
6/20	4.00	4.00	4.00		
6/21	4.00	3.99			
6/22	4.00	4.00			
6/25	4.00	4.00			
12-6	4.00	3.98			
12-10	4.00	3.98	4. .	3.99	
12-23	4.00	3.95	4.00	4.00	
2-04	4.00	4.06	4.00	3.99	
3-3	4.00	3.98	4.00	4.00	
3-17	4.00	3.92	4.00	4.00	
3-18	4.00	3.94	4.00	4.00	
3-19	4.00	3.98	4.00	4.00	
3-20	4.00	3.98	4.00	4.00	
3-24	4.00	4.00			
3-25	4.00	4.00			
3-31	4.00	4.00	4.00	4.00	

Equipment Calibration Log

Instrument Name: Horiba

Model Number: #1

Date	First Standard Concentration	First Standard Reading	Second Standard Concentration	Second Standard Reading	Comments
9-24	4.00	3.99			
9-25	4.00	3.93	4.00	4.00	
9-26	4.00	4.00			
9-27	4.00	3.94	4.00	4.00	
9-28	4.00	3.99			
10-1	4.00	4.00			
12-10	4.00	4.00			
12-11	4.00	3.97			
12-12	4	3.99			
12-13	4	3.99			
12/20	4.00	3.99			
3-17	4.00	4.10	4.00	4.00	
3-18	4	3.95	4	3.99	
3-19	4.00	3.92	4.00	4.00	
3-24	4.00	3.99			
3-25	4.00	3.99	4.00	3.99	
3-31	4.00	3.99	4.00	4.08	

AFCEE
CHAIN OF CUSTODY RECORD

COC#: _2_ SDG#: _177_ Cooler ID: _A_

Ship to: Monika Santucci Life Science Laboratories, Inc. 5000 Brittonfield Pkwy, Suite 200 East Syracuse, NY 13057 Tel: (315)437-0200	Project Name: Griffiss AFB TF 1 and 3 Sampling Sampler Name: David Forse	Send Results to: Niels van Hoesel FPM Group 153 Brooks Road Rome, NY 13441
Carrier: LSL courier.	Sampler Signature: David P Forse	Phone: (315) 336-7721 Ext. 205

Analyses Requested

Field Sample ID	Location ID (LOCID)	Date 2008	Time	MATRIX	SMCODE	SBD/SED	SACODE	Preservative	Filt./UnFilt.	No. of Containers	VOC note 1 40 mL vials (HCl)	SVOCs note 2 1 L amber	Total Alkalinity note 3 (zero headspace)	Nitrogen (Nitrate) note 4 16 oz poly	Total Sulfide Note 5 16 oz poly (ZnAC and NaOH)	Comments
TF3CE312SA	MW-CE	3/20	1035	WG	B	0/0	N	HCl	Unf.	3	3	-	-	-	-	
TF3M2113SA	TF3MW21	3/20	1150	WG	B	0/0	N	HCl	Unf.	3	3	-	-	-	-	
TF3M11613SA	WL-TF3MW-116	3/20	1215	WG	B	0/0	N	HCl	Unf.	3	3	-	-	-	-	
TF3M11710SA	WL-TF3MW-117	3/20	1240	WG	B	0/0	N	HCl	Unf.	3	3	-	-	-	-	
TF3M12313SA	WL-TF3MW-123	3/20	1117	WG	B	0/0	N	HCl	Unf.	3	3	-	-	-	-	
TF3M12313SC	WL-TF3MW-123	3/20	1117	WG	B	0/0	FD	HCl	Unf.	3	3	-	-	-	-	
TF3M12313SS	WL-TF3MW-123	3/20	1117	WG	B	0/0	MS	HCl	Unf.	3	3	-	-	-	-	
TF3M12313SD	WL-TF3MW-123	3/20	1117	WG	B	0/0	SD	HCl	Unf.	3	3	-	-	-	-	
TF3M12613SA	WL-TF3MW-126	3/20	0943	WG	B	0/0	N	HCl	Unf.	3	3	-	-	-	-	
TF3M12712SA	WL-TF3MW-127	3/20	1110	WG	B	0/0	N	HCl	Unf.	3	3	-	-	-	-	
TF3M12813SA	WL-TF3MW-128	3/20	1040	WG	B	0/0	N	HCl	Unf.	3	3	-	-	-	-	
TF3M13315SA	WL-TF3MW-133	3/20	1000	WG	B	0/0	N	HCl	Unf.	3	3	-	-	-	-	
TF3M13315SC	WL-TF3MW-133	3/20	1000	WG	B	0/0	FD	HCl	Unf.	3	3	-	-	-	-	

Sample Condition Upon Receipt at Laboratory: Cooler Temperature:

Special Instructions/Comments: Analyses to be conducted in compliance with AFCEE QAPP 4.0

Note 1: VOCs: SW8260, AFCEE QAPP 4.0 List.

Note 2: SVOCs: SW8270, AFCEE QAPP 4.0 List.
Note 3: Total Alkalinity, 310.2.
Note 4: Nitrogen: 353.2, Nitrate: Automated.
Note 5: Total Sulfide: 376.2.

#1 Released by: (Sig)	Date:	#2 Released by: (Sig)	Date: 3/20/08	#3 Released by: (Sig)	Date:
Company Name:	Time:	Company Name: FPM Group Ltd	Time: 1700	Company Name:	Time
#1 Received by: (Sig) Niels van Hoesel	Date: 2/20/07	#2 Received by: (Sig)	Date 3/20/08	#3 Received by: (Sig)	Date
Company Name: FPM Group Ltd	Time: 1000	Company Name:	Time: 17 25	Company Name:	Time:

MATRIX
WG = Ground water
WQ = Water Quality Control Matrix
SO = Soil

SMCODE
B = Bailer
G = Grab (only for EB).
NA = Not Applicable (only for AB/TB)
PP = Peristaltic Pump
BP = Bladder Pump
SP = Submersible Pump
SS = Split Spoon

SACODE
N = Normal Sample
AB = Ambient Blank
TB = Trip Blank
EB = Equipment Blank
FD = Field Duplicate
MS = Matrix Spike
SD = Matrix Spike Duplicate

Daily Health and Safety Meeting Form

Date: 3-20-08 *Time :* 0830

Location: FPM office (garage)

Weather Conditions: rain / 40

Meeting Type: Daily Health and Safety

Personnel Present:
D. Forse, J. Ratt, J. Wentzel, D. Baldyga, C. Smith

Visitors Present: None

Visitor Training: None

PPE Required: Modified D

Possible risks, injuries, concerns:
Slip / trip / fall, cold / damp / wet exposure

Anticipated Releases to Environment (if so, describe and detail response action/control measures implemented):
None

Property Damage:
None

Description (include sequence of events describing step by step how incident happened):
None

Analysis for, and Implementation of Corrective/Preventative Procedure to Prevent Future Occurrences (to be formulated by SSHO + FOM, approved by PM, and SSHO implemented):
None

Report made by (Name): D Baldyga

SSHP Organization Title: Site Safety and Health Officer

FPM-GROUP
Data Verification and Usability Report
GRIFFISS AIR FORCE BASE
Site Griffiss AFB TANK FARM 1/3
Water Sampling
Contract No. F41624-03-D-8601

FPM Project No. 40-05-27

LSL Job # 0803106

Laboratory:	Life Sciences Laboratories, Inc.
Sample Matrix:	Water
Number of Samples:	13
Analytical Protocol:	AFCEE QAPP, Version 4.0, with AFCEE-approved lab variances
Data Reviewer:	Connie van Hoesel
Sample Date:	March 20, 2008

LIST OF DATA VERIFICATION SAMPLES

This verification report pertains to the following environmental samples and corresponding QC samples:

Sample ID	Date	QC Samples	Date
TF3CE312SA	3/20/08		
TF3M11613SA	3/20/08		
TF3M12712SA	3/20/08		
TF3M12813SA	3/20/08		
TF3M13315SA	3/20/08	TF3M13315SC	3/20/08
TF3M2113SA	3/20/08		
TF3M11710SA	3/20/08		
TF3M12613SA	3/20/08		
TF3M12313SA	3/20/08	TF3M12313SC, TF3M12313SD, TF3M12313SSS	3/20/08

Notes:

Refer to attached chain-of-custody for detailed sampling information and sample specific analyses requested.

SA – Primary environmental samples

SC – Field duplicate sample

SD – Matrix spike (MS)

SS – Matrix spike duplicate (MSD)

DELIVERABLES

The data deliverable report was per requirements of the AFCEE QAPP 4.0 and approved variances. The report consisted of the following major sections: lab attachment letter, case narrative, chain-of-custody, lab qualifier definitions, analytical results (sheet 2) based on analytical batch, calibration summaries, method blank summaries, laboratory control sample summaries, matrix spike/matrix spike duplicate summaries, holding time forms, performance checks, surrogate and internal standard recoveries, as applicable.

ANALYTICAL METHODS

The analytical test methods and QA/QC requirements used for the soil sample analysis was per methods as specified in the AFCEE Quality Assurance Project Plan, Version 4.0 and AFCEE approved laboratory variances. The analytical methods employed included SW-846: Volatile Organic Compounds (VOCs) by Method SW8260.

VERIFICATION GUIDANCE

The analytical work was performed by Life Sciences Laboratories, Inc. in accordance with the Air Force Center for Environmental Excellence (AFCEE), Quality Assurance Project Plan (QAPP), Version 4.0, with AFCEE-approved laboratory variances. The data was verified according to the protocols and QC requirements of the respective analytical methods and of the QAPP Version 4.0. For data usability purposes all values were further evaluated, including positive and non-detect results that were qualified "Q" according to the QAPP. The data usability analysis was based on the reviewer's professional judgment and on an assessment of how this data would fare with respect to the U.S. Environmental Protection Agency (USEPA) Contract Laboratory Program (CLP) National Functional Guidelines for Organic (and Inorganic) Data Review (February 1994), and the AFCEE QAPP, Version 4.0.

QA/QC CRITERIA

The following QA/QC criteria were reviewed, as applicable and available:

- Method detection limits and reporting limits (MDL, RL)
- Holding times, sample preservation and storage
- MS tune performance
- Initial and Continuing calibration summaries
- Second source calibration verification summary
- Method blanks
- Ambient, equipment, and trip blanks (as applicable)
- Field duplicate results
- Surrogate spike recoveries
- Internal standard areas counts and retention times

- Laboratory control samples (LCS)
- Results reported between MDL and RL (F-flag)
- Sample storage and preservation
- Data system printouts
- Qualitative and quantitative compound identification
- Chain-of-custody (COC)
- Case narrative and deliverables compliance

The items listed above were in compliance with AFCEE QAPP and USEPA criteria and protocols with exceptions discussed in the text below. The data have been verified according to the procedures outlined above and qualified accordingly.

GENERAL NOTES:

MISSING SAMPLES

None. All samples documented on the chain of custody were received by the laboratory.

BLANKS

Whenever blanks, including method, ambient, equipment, and trip, contained low levels of contaminants (between MDL and RL), the laboratory and/or data verifier qualified the subject results with an "F" flag. Since no qualification of associated field samples are required for blanks less than half the RL, no further action was taken in such instances.

VOLATILE ORGANIC COMPOUNDS (VOCs)

- According to the case narrative, the following samples were analyzed at a dilution of 1:2: TF3M2113SA, TF3M12313SA, and TF3M12313SC. The dilution results only are reported and are used in data verification as representing original results.

- According to the case narrative, due to instrument malfunction, carryover contamination was observed in method blank MB-1311, which was analyzed within the 12-hour tune period. The blank was reanalyzed outside the 12-hour tune period (2 hours, 2 minutes outside of the 12-hour BFB tune window). The laboratory provided results for the reanalysis of MB-1311 only. Using professional judgment, no corrective action was considered necessary.

- The following table summarizes QC exceedances of the matrix spike/matrix spike duplicate (MS/MSD) percent recoveries and/or RPDs for parent samples TF3M12313SA/SC. The spike analytes, MS recoveries, MSD recoveries, spike recovery QC limits, and RPDs and their QC limit between the MS and MSD are listed.

Parent Samples: TF3M12313SA/SC

Spike Compounds	MS %Rec	MSD %Rec	AFCEE QC Limits	RPD % (AFCEE limit 20%)	Flag Applied	Rationale
2-Butanone	***217***	***240***	49-136	10	M	%Rec outside AFCEE QC limits
4-methyl-2-pentanone	***154***	***156***	58-134	1	M	%Rec outside AFCEE QC limits
Acetone	***225***	***222***	40-135	2	M	%Rec outside AFCEE QC limits

Data for matrix spike/matrix spike duplicates (MS/MSD) are generated to determine long-term precision and accuracy of the analytical method on various matrices. Generally, these data alone cannot be used to evaluate the precision and accuracy of individual samples. A matrix spike and matrix spike duplicate analysis is an aliquot of sample spiked with known concentrations of all the analytes in the method. According to the AFCEE QAPP, the MS/MSD result is used to assess whether the sample matrix may bias the results. The AFCEE recommended frequency of analysis is one MS/MSD per 20 samples. Exceedances of either percent recovery (%Rec) control limits of spike concentrations or relative percent difference (RPD) control limits between the MS and MSD results, according to the QAPP require a "M" (matrix effect) qualifier for the specific analyte in all samples collected from the same site matrix as the parent. However, due to the varied nature of environmental samples, such as locations, depths, physical characteristics (dissolved and suspended solids, turbidity, pH, organic content, etc.), it is difficult to assign one set of MS/MSD sample analysis as truly representative of an entire site matrix. Therefore, based on the definition of this type of QA/QC sample, using professional judgment it is deemed inappropriate to qualify more than the actual parent sample due to a percent recovery or RPD exceedance. This approach is in accordance with the EPA National Functional guidelines, which states that the MS/MSD results are not used alone to qualify the entire data package, however, can be used in conjunction with other QC criteria to determine the need for some qualification of the data. Using professional judgment, no corrective action and/or flagging is deemed required for minimal exceedances (i.e., within 1% of the control limits).

Corrective Action: An "M" flag was applied to the sulfate results in parent samples TF3M12313SA/SC.

- Field duplicate samples, which are collected at the same location and at the same time using identical collection, handling, and analytical procedures, are used to assess precision of the sample collection process. The AFCEE QAPP requires qualification of data for field duplicates criterion if the duplicate samples contain detected compounds with concentrations above the reporting limits (RLs) and the relative percent differences (RPDs) between the duplicate sample results exceed AFCEE QAPP's RPD control limits. If these conditions are met for any analytes in the field duplicate samples, per the AFCEE QAPP, the specific analytes in all samples collected on the same sampling date are to be qualified as estimated ("J") for positive results and rejected ("R") for nondetects. Using professional judgment, it is deemed inappropriate to consider any set of field duplicate samples to be truly representative of a site or sampling event. Therefore, if qualification of data is needed, then only the parent-duplicate sample set will be qualified as estimated ("J") for positive results and rejected ("R") for non-detects, and no action will be taken for this criterion in all the other samples collected on the same sampling date.

  The following table summarizes QC exceedances of the relative percent differences (RPD's) of field duplicate samples TF3M12313SA and TF3M12313SC.

Sample ID, Normal	Sample ID, Field Duplicate	Analyte	Normal Result (µg/L)	Field Dup Result (µg/L)	MDL (µg/L) Normal, Dup	RPD	Flag Applied	Rationale
TF3M12313SA	TF3M12313SC	1,3,5-trimethylbenzene	2.94	2.16	0.320	***30.6***	J	RPD > 20%
TF3M12313SA	TF3M12313SC	n-propylbenzene	7.22	5.62	0.200	***24.9***	J	RPD > 20%

- **Corrective Action:** The analyte above exhibited RPD exceedances (above AFCEE's 20% limit). As discussed above, "J" qualifiers were applied to the results of samples TF3M12313SA and TF3M12313SC only, and these results are considered estimated.

DATA USABILITY RESULTS

VOCs

Based on the evaluation of all information in the analytical data groups, the results of the samples for VOCs are highly usable with the data qualifiers as noted. Using the verification approach as presented above, the results for all above samples are 100% usable.

AFCEE SUMMARY

All data in Job # 0803106 are valid and usable with qualifications as noted in the data review.

Signed: Concordia van Hoesel Date: 4/16/08

ATTACHMENTS

- Chain-of-Custody
- Laboratory's Case Narrative
- Definition of AFCEE Data Qualifiers
- Definition of USEPA Data Qualifiers
- Qualified final data verification results on annotated Lab Sheet 2s

AFCEE
ORGANIC ANALYSES DATA PACKAGE

Analytical Method: SW8260B

AAB #: R13058

Lab Name: Life Science Laboratories, Inc.

Contract Number:

Base/Command:

Prime Contractor: FPM Group

Field Sample ID	Lab Sample ID
TF3CE312SA	0803106-001A
TF3M2113SA	0803106-002A
TF3M11613SA	0803106-003A
TF3M11710SA	0803106-004A
TF3M12313SC	0803106-006A
TF3M12613SA	0803106-007A
TF3M12813SA	0803106-009A
TF3M13315SA	0803106-010A
TF3M13315SC	0803106-011A

Comments:

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager's designee, as verified by the following signature.

Signature: Monika Santucci Name: Monika Santucci

Date: 4/7/08 Title: Project Manager

Analytical Results

AFCEE
ORGANIC ANALYSES DATA PACKAGE

Analytical Method:	SW8260B	**AAB #:**	R13066
Lab Name:	Life Science Laboratories, Inc.	**Contract Number:**	
Base/Command:		**Prime Contractor:**	FPM Group

Field Sample ID	Lab Sample ID
TF3M12712SA	0803106-008A

Comments:

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager's designee, as verified by the following signature.

Signature: Monika Santucci Name: Monika Santucci

Date: 4/7/08 Title: Project Manager

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ORGANIC ANALYSES DATA PACKAGE

Analytical Method: SW8260B **AAB #:** R13111

Lab Name: Life Science Laboratories, Inc. **Contract Number:**

Base/Command: **Prime Contractor:** FPM Group

Field Sample ID	Lab Sample ID
TF3M12313SA	0803106-005A
TF3M12313SA	0803106-005AMS
TF3M12313SA	0803106-005AMSD

Comments:

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager's designee, as verified by the following signature.

Signature: Monika Santucci Name: Monika Santucci

Date: 4/7/08 Title: Project Manager

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R13058
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	TF3CE312SA	**Lab Sample ID:**	0803106-001A	**Matrix:**	Groundwater
% Solids:	0	**Initial Calibration ID:**	1204	**File ID:**	T1966.D
Date Received:	21-Mar-08	**Date Extracted:**		**Date Analyzed:**	24-Mar-08
Concentration Units (ug/L or mg/Kg dry weight):	ug/L			**Sample Size:**	10 mL

Analyte	MDL	RL	Concentration	Dilution	Comment	Qualifier
(m+p)-Xylene	0.100	2.00	0.100	1		U
1,1,1,2-Tetrachloroethane	0.250	0.500	0.250	1		U
1,1,1-Trichloroethane	0.160	1.00	0.160	1		U
1,1,2,2-Tetrachloroethane	0.160	0.500	0.160	1		U
1,1,2-Trichloroethane	0.250	1.00	0.250	1		U
1,1-Dichloroethane	0.160	1.00	0.160	1		U
1,1-Dichloroethene	0.250	1.00	0.250	1		U
1,1-Dichloropropene	0.250	1.00	0.250	1		U
1,2,3-Trichlorobenzene	0.500	1.00	0.500	1		U
1,2,3-Trichloropropane	1.00	2.00	1.00	1		U
1,2,4-Trichlorobenzene	0.500	1.00	0.500	1		U
1,2,4-Trimethylbenzene	0.160	1.00	0.160	1		U
1,2-Dibromo-3-chloropropane	2.50	5.00	2.50	1		U
1,2-Dibromoethane	0.250	1.00	0.250	1		U
1,2-Dichlorobenzene	0.160	1.00	0.160	1		U
1,2-Dichloroethane	0.250	0.500	0.250	1		U
1,2-Dichloropropane	0.160	1.00	0.160	1		U
1,3,5-Trimethylbenzene	0.160	1.00	0.160	1		U
1,3-Dichlorobenzene	0.160	1.00	0.160	1		U
1,3-Dichloropropane	0.160	0.500	0.160	1		U
1,4-Dichlorobenzene	0.160	0.500	0.160	1		U
1-Chlorohexane	0.250	1.00	0.250	1		U
2,2-Dichloropropane	0.500	1.00	0.500	1		U
2-Butanone	2.50	10.0	2.50	1		U
2-Chlorotoluene	0.100	1.00	0.100	1		U
4-Chlorotoluene	0.100	1.00	0.100	1		U
4-Methyl-2-pentanone	1.00	10.0	1.00	1		U
Acetone	2.50	10.0	2.50	1		U
Benzene	0.160	0.500	0.160	1		U
Bromobenzene	0.160	1.00	0.160	1		U
Bromochloromethane	0.160	1.00	0.160	1		U
Bromodichloromethane	0.160	0.500	0.160	1		U

Comments:

4/16/08

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ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R13058
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	TF3CE312SA	**Lab Sample ID:**	0803106-001A	**Matrix:**	Groundwater
% Solids:	0	**Initial Calibration ID:**	1204	**File ID:**	T1966.D
Date Received:	21-Mar-08	**Date Extracted:**		**Date Analyzed:**	24-Mar-08
Concentration Units (ug/L or mg/Kg dry weight):	ug/L			**Sample Size:**	10 mL

Analyte	MDL	RL	Concentration	Dilution	Column	Qualifier
Bromoform	0.500	1.00	0.500	1		U
Bromomethane	0.190	3.00	0.190	1		U
Carbon tetrachloride	0.250	1.00	0.250	1		U
Chlorobenzene	0.160	0.500	0.160	1		U
Chloroethane	0.500	1.00	0.500	1		U
Chloroform	0.100	0.500	0.100	1		U
Chloromethane	0.500	1.00	0.500	1		U
cis-1,2-Dichloroethene	0.160	1.00	0.160	1		U
cis-1,3-Dichloropropene	0.250	0.500	0.250	1		U
Dibromochloromethane	0.160	0.500	0.160	1		U
Dibromomethane	0.160	1.00	0.160	1		U
Dichlorodifluoromethane	0.250	1.00	0.250	1		U
Ethylbenzene	0.100	1.00	0.100	1		U
Hexachlorobutadiene	0.500	1.00	0.500	1		U
Isopropylbenzene	0.160	1.00	3.74	1		
Methyl tert-butyl ether	0.500	5.00	0.500	1		U
Methylene chloride	0.160	1.00	0.160	1		U
n-Butylbenzene	0.160	1.00	1.17	1		
n-Propylbenzene	0.100	1.00	5.38	1		
Naphthalene	0.500	1.00	0.500	1		U
o-Xylene	0.160	1.00	0.160	1		U
p-Isopropyltoluene	0.160	1.00	0.160	1		U
sec-Butylbenzene	0.160	1.00	2.70	1		
Styrene	0.160	1.00	0.160	1		U
tert-Butylbenzene	0.160	1.00	0.630	1		F
Tetrachloroethene	0.100	1.00	0.100	1		U
Toluene	0.100	1.00	0.100	1		U
trans-1,2-Dichloroethene	0.160	1.00	0.160	1		U
trans-1,3-Dichloropropene	0.250	1.00	0.250	1		U
Trichloroethene	0.100	1.00	1.15	1		
Trichlorofluoromethane	0.100	1.00	0.100	1		U
Vinyl chloride	0.500	1.00	0.500	1		U

Comments:

CMA 4/16/08

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ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R13058
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	TF3CE312SA	**Lab Sample ID:**	0803106-001A	**Matrix:**	Groundwater
% Solids:	0	**Initial Calibration ID:**	1204	**File ID:**	T1966.D
Date Received:	21-Mar-08	**Date Extracted:**		**Date Analyzed:**	24-Mar-08
Concentration Units (ug/L or mg/Kg dry weight):	ug/L			**Sample Size:**	10 mL

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
Xylenes (total)	0.260	2.00	0.260	1		U

Surrogate	Recovery	Control Limits	Qualifier
1,2-Dichloroethane-d4	107	72 - 119	
4-Bromofluorobenzene	104	76 - 119	
Toluene-d8	111	81 - 120	

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Internal Std	Area Counts	Area Count Limits	Qualifier
1,4-Dichlorobenzene-d4	713025	306228 - 1224912	
Chlorobenzene-d5	814046	370666 - 1482666	
Fluorobenzene	1826780	849584 - 3398336	

Comments:

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ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R13058
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	TF3M2113SA	**Lab Sample ID:**	0803106-002A	**Matrix:**	Groundwater
% Solids:	0	**Initial Calibration ID:**	1204	**File ID:**	T1967.D
Date Received:	21-Mar-08	**Date Extracted:**		**Date Analyzed:**	24-Mar-08
Concentration Units (ug/L or mg/Kg dry weight):	ug/L			**Sample Size:**	10 mL

Analyte	MDL	PL	Concentration	Dilution	Comment	Qualifier
(m+p)-Xylene	0.200	4.00	0.200	2		U
1,1,1,2-Tetrachloroethane	0.500	1.00	0.500	2		U
1,1,1-Trichloroethane	0.320	2.00	0.320	2		U
1,1,2,2-Tetrachloroethane	0.320	1.00	0.320	2		U
1,1,2-Trichloroethane	0.500	2.00	0.500	2		U
1,1-Dichloroethane	0.320	2.00	0.320	2		U
1,1-Dichloroethene	0.500	2.00	0.500	2		U
1,1-Dichloropropene	0.500	2.00	0.500	2		U
1,2,3-Trichlorobenzene	1.00	2.00	1.00	2		U
1,2,3-Trichloropropane	2.00	4.00	2.00	2		U
1,2,4-Trichlorobenzene	1.00	2.00	1.00	2		U
1,2,4-Trimethylbenzene	0.320	2.00	0.320	2		U
1,2-Dibromo-3-chloropropane	5.00	10.0	5.00	2		U
1,2-Dibromoethane	0.500	2.00	0.500	2		U
1,2-Dichlorobenzene	0.320	2.00	0.320	2		U
1,2-Dichloroethane	0.500	1.00	0.500	2		U
1,2-Dichloropropane	0.320	2.00	0.320	2		U
1,3,5-Trimethylbenzene	0.320	2.00	0.320	2		U
1,3-Dichlorobenzene	0.320	2.00	0.320	2		U
1,3-Dichloropropane	0.320	1.00	0.320	2		U
1,4-Dichlorobenzene	0.320	1.00	0.320	2		U
1-Chlorohexane	0.500	2.00	0.500	2		U
2,2-Dichloropropane	1.00	2.00	1.00	2		U
2-Butanone	5.00	20.0	5.00	2		U
2-Chlorotoluene	0.200	2.00	0.200	2		U
4-Chlorotoluene	0.200	2.00	0.200	2		U
4-Methyl-2-pentanone	2.00	20.0	2.00	2		U
Acetone	5.00	20.0	5.00	2		U
Benzene	0.320	1.00	0.320	2		U
Bromobenzene	0.320	2.00	0.320	2		U
Bromochloromethane	0.320	2.00	0.320	2		U
Bromodichloromethane	0.320	1.00	0.320	2		U

Comments:

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ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R13058
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	TF3M2113SA	**Lab Sample ID:**	0803106-002A	**Matrix:**	Groundwater
% Solids:	0	**Initial Calibration ID:**	1204	**File ID:**	T1967.D
Date Received:	21-Mar-08	**Date Extracted:**		**Date Analyzed:**	24-Mar-08
Concentration Units (ug/L or mg/Kg dry weight):	ug/L			**Sample Size:**	10 mL

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
Bromoform	1.00	2.00	1.00	2		U
Bromomethane	0.380	6.00	0.380	2		U
Carbon tetrachloride	0.500	2.00	0.500	2		U
Chlorobenzene	0.320	1.00	0.320	2		U
Chloroethane	1.00	2.00	1.00	2		U
Chloroform	0.200	1.00	0.200	2		U
Chloromethane	1.00	2.00	1.00	2		U
cis-1,2-Dichloroethene	0.320	2.00	0.320	2		U
cis-1,3-Dichloropropene	0.500	1.00	0.500	2		U
Dibromochloromethane	0.320	1.00	0.320	2		U
Dibromomethane	0.320	2.00	0.320	2		U
Dichlorodifluoromethane	0.500	2.00	0.500	2		U
Ethylbenzene	0.200	2.00	0.200	2		U
Hexachlorobutadiene	1.00	2.00	1.00	2		U
Isopropylbenzene	0.320	2.00	13.2	2		
Methyl tert-butyl ether	1.00	10.0	1.00	2		U
Methylene chloride	0.320	2.00	0.320	2		U
n-Butylbenzene	0.320	2.00	1.26	2		F
n-Propylbenzene	0.200	2.00	2.52	2		
Naphthalene	1.00	2.00	1.00	2		U
o-Xylene	0.320	2.00	0.320	2		U
p-Isopropyltoluene	0.320	2.00	1.04	2		F
sec-Butylbenzene	0.320	2.00	1.24	2		F
Styrene	0.320	2.00	0.320	2		U
tert-Butylbenzene	0.320	2.00	0.680	2		F
Tetrachloroethene	0.200	2.00	0.200	2		U
Toluene	0.200	2.00	0.200	2		U
trans-1,2-Dichloroethene	0.320	2.00	0.320	2		U
trans-1,3-Dichloropropene	0.500	2.00	0.500	2		U
Trichloroethene	0.200	2.00	0.200	2		U
Trichlorofluoromethane	0.200	2.00	0.200	2		U
Vinyl chloride	1.00	2.00	1.00	2		U

Comments:

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ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R13058
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	TF3M2113SA	**Lab Sample ID:**	0803106-002A	**Matrix:**	Groundwater
% Solids:	0	**Initial Calibration ID:**	1204	**File ID:**	T1967.D
Date Received:	21-Mar-08	**Date Extracted:**		**Date Analyzed:**	24-Mar-08
Concentration Units (ug/L or mg/Kg dry weight):	ug/L			**Sample Size:**	10 mL

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
Xylenes (total)	0.520	4.00	0.520	2		U

Surrogate	Recovery	Control Limits	Qualifier
1,2-Dichloroethane-d4	106	72 - 119	
4-Bromofluorobenzene	102	76 - 119	
Toluene-d8	103	81 - 120	

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Internal Std	Area Counts	Area Count Limits	Qualifier
1,4-Dichlorobenzene-d4	709856	306228 - 1224912	
Chlorobenzene-d5	815938	370666 - 1482666	
Fluorobenzene	1875739	849584 - 3398336	

Comments:

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ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R13058
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	TF3M11613SA	**Lab Sample ID:**	0803106-003A	**Matrix:**	Groundwater
% Solids:	0	**Initial Calibration ID:**	1204	**File ID:**	T1968.D
Date Received:	21-Mar-08	**Date Extracted:**		**Date Analyzed:**	24-Mar-08
Concentration Units (ug/L or mg/Kg dry weight):	ug/L			**Sample Size:**	10 mL

Analyte	MDL	RL	Concentration	Dilution	Qualifier	Qualifier
(m+p)-Xylene	0.100	2.00	0.100	1		U
1,1,1,2-Tetrachloroethane	0.250	0.500	0.250	1		U
1,1,1-Trichloroethane	0.160	1.00	0.160	1		U
1,1,2,2-Tetrachloroethane	0.160	0.500	0.160	1		U
1,1,2-Trichloroethane	0.250	1.00	0.250	1		U
1,1-Dichloroethane	0.160	1.00	0.160	1		U
1,1-Dichloroethene	0.250	1.00	0.250	1		U
1,1-Dichloropropene	0.250	1.00	0.250	1		U
1,2,3-Trichlorobenzene	0.500	1.00	0.500	1		U
1,2,3-Trichloropropane	1.00	2.00	1.00	1		U
1,2,4-Trichlorobenzene	0.500	1.00	0.500	1		U
1,2,4-Trimethylbenzene	0.160	1.00	0.160	1		U
1,2-Dibromo-3-chloropropane	2.50	5.00	2.50	1		U
1,2-Dibromoethane	0.250	1.00	0.250	1		U
1,2-Dichlorobenzene	0.160	1.00	0.160	1		U
1,2-Dichloroethane	0.250	0.500	0.250	1		U
1,2-Dichloropropane	0.160	1.00	0.160	1		U
1,3,5-Trimethylbenzene	0.160	1.00	0.160	1		U
1,3-Dichlorobenzene	0.160	1.00	0.160	1		U
1,3-Dichloropropane	0.160	0.500	0.160	1		U
1,4-Dichlorobenzene	0.160	0.500	0.160	1		U
1-Chlorohexane	0.250	1.00	0.250	1		U
2,2-Dichloropropane	0.500	1.00	0.500	1		U
2-Butanone	2.50	10.0	2.50	1		U
2-Chlorotoluene	0.100	1.00	0.100	1		U
4-Chlorotoluene	0.100	1.00	0.100	1		U
4-Methyl-2-pentanone	1.00	10.0	1.00	1		U
Acetone	2.50	10.0	2.50	1		U
Benzene	0.160	0.500	0.160	1		U
Bromobenzene	0.160	1.00	0.160	1		U
Bromochloromethane	0.160	1.00	0.160	1		U
Bromodichloromethane	0.160	0.500	0.160	1		U

Comments:

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ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R13058
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	TF3M11613SA	**Lab Sample ID:**	0803106-003A	**Matrix:**	Groundwater
% Solids:	0	**Initial Calibration ID:**	1204	**File ID:**	T1968.D
Date Received:	21-Mar-08	**Date Extracted:**		**Date Analyzed:**	24-Mar-08
Concentration Units (ug/L or mg/Kg dry weight):	ug/L			**Sample Size:**	10 mL

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
Bromoform	0.500	1.00	0.500	1		U
Bromomethane	0.190	3.00	0.190	1		U
Carbon tetrachloride	0.250	1.00	0.250	1		U
Chlorobenzene	0.160	0.500	0.160	1		U
Chloroethane	0.500	1.00	0.500	1		U
Chloroform	0.100	0.500	0.100	1		U
Chloromethane	0.500	1.00	0.500	1		U
cis-1,2-Dichloroethene	0.160	1.00	0.160	1		U
cis-1,3-Dichloropropene	0.250	0.500	0.250	1		U
Dibromochloromethane	0.160	0.500	0.160	1		U
Dibromomethane	0.160	1.00	0.160	1		U
Dichlorodifluoromethane	0.250	1.00	0.250	1		U
Ethylbenzene	0.100	1.00	0.100	1		U
Hexachlorobutadiene	0.500	1.00	0.500	1		U
Isopropylbenzene	0.160	1.00	10.7	1		
Methyl tert-butyl ether	0.500	5.00	0.500	1		U
Methylene chloride	0.160	1.00	0.160	1		U
n-Butylbenzene	0.160	1.00	1.59	1		
n-Propylbenzene	0.100	1.00	8.17	1		
Naphthalene	0.500	1.00	0.500	1		U
o-Xylene	0.160	1.00	0.160	1		U
p-Isopropyltoluene	0.160	1.00	0.160	1		U
sec-Butylbenzene	0.160	1.00	7.79	1		
Styrene	0.160	1.00	0.160	1		U
tert-Butylbenzene	0.160	1.00	2.03	1		
Tetrachloroethene	0.100	1.00	0.100	1		U
Toluene	0.100	1.00	0.100	1		U
trans-1,2-Dichloroethene	0.160	1.00	0.160	1		U
trans-1,3-Dichloropropene	0.250	1.00	0.250	1		U
Trichloroethene	0.100	1.00	0.100	1		U
Trichlorofluoromethane	0.100	1.00	0.100	1		U
Vinyl chloride	0.500	1.00	0.500	1		U

Comments:

CMK 4/16/08

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ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R13058
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	TF3M11613SA	**Lab Sample ID:**	0803106-003A	**Matrix:**	Groundwater
% Solids:	0	**Initial Calibration ID:**	1204	**File ID:**	T1968.D
Date Received:	21-Mar-08	**Date Extracted:**		**Date Analyzed:**	24-Mar-08
Concentration Units (ug/L or mg/Kg dry weight):	ug/L			**Sample Size:**	10 mL

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
Xylenes (total)	0.260	2.00	0.260	1		U

Surrogate	Recovery	Control Limits	Qualifier
1,2-Dichloroethane-d4	106	72 - 119	
4-Bromofluorobenzene	99	76 - 119	
Toluene-d8	116	81 - 120	

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Internal Std	Area Counts	Area Count Limits	Qualifier
1,4-Dichlorobenzene-d4	722132	306228 - 1224912	
Chlorobenzene-d5	859847	370666 - 1482666	
Fluorobenzene	1890124	849584 - 3398336	

Comments:

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ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R13058
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	TF3M11710SA	**Lab Sample ID:**	0803106-004A	**Matrix:**	Groundwater
% Solids:	0	**Initial Calibration ID:**	1204	**File ID:**	T1969.D
Date Received:	21-Mar-08	**Date Extracted:**		**Date Analyzed:**	24-Mar-08
Concentration Units (ug/L or mg/Kg dry weight):	ug/L			**Sample Size:**	10 mL

Analyte	MDL	RL	Concentration	Dilution	Comment	Qualifier
(m+p)-Xylene	0.100	2.00	0.100	1		U
1,1,1,2-Tetrachloroethane	0.250	0.500	0.250	1		U
1,1,1-Trichloroethane	0.160	1.00	0.160	1		U
1,1,2,2-Tetrachloroethane	0.160	0.500	0.160	1		U
1,1,2-Trichloroethane	0.250	1.00	0.250	1		U
1,1-Dichloroethane	0.160	1.00	0.160	1		U
1,1-Dichloroethene	0.250	1.00	0.250	1		U
1,1-Dichloropropene	0.250	1.00	0.250	1		U
1,2,3-Trichlorobenzene	0.500	1.00	0.500	1		U
1,2,3-Trichloropropane	1.00	2.00	1.00	1		U
1,2,4-Trichlorobenzene	0.500	1.00	0.500	1		U
1,2,4-Trimethylbenzene	0.160	1.00	0.160	1		U
1,2-Dibromo-3-chloropropane	2.50	5.00	2.50	1		U
1,2-Dibromoethane	0.250	1.00	0.250	1		U
1,2-Dichlorobenzene	0.160	1.00	0.160	1		U
1,2-Dichloroethane	0.250	0.500	0.250	1		U
1,2-Dichloropropane	0.160	1.00	0.160	1		U
1,3,5-Trimethylbenzene	0.160	1.00	0.160	1		U
1,3-Dichlorobenzene	0.160	1.00	0.160	1		U
1,3-Dichloropropane	0.160	0.500	0.160	1		U
1,4-Dichlorobenzene	0.160	0.500	0.160	1		U
1-Chlorohexane	0.250	1.00	0.250	1		U
2,2-Dichloropropane	0.500	1.00	0.500	1		U
2-Butanone	2.50	10.0	2.50	1		U
2-Chlorotoluene	0.100	1.00	0.100	1		U
4-Chlorotoluene	0.100	1.00	0.100	1		U
4-Methyl-2-pentanone	1.00	10.0	1.00	1		U
Acetone	2.50	10.0	2.50	1		U
Benzene	0.160	0.500	0.160	1		U
Bromobenzene	0.160	1.00	0.160	1		U
Bromochloromethane	0.160	1.00	0.160	1		U
Bromodichloromethane	0.160	0.500	0.160	1		U

Comments:

cwk 4/16/08

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R13058
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	TF3M11710SA	**Lab Sample ID:**	0803106-004A	**Matrix:**	Groundwater
% Solids:	0	**Initial Calibration ID:**	1204	**File ID:**	T1969.D
Date Received:	21-Mar-08	**Date Extracted:**		**Date Analyzed:**	24-Mar-08
Concentration Units (ug/L or mg/Kg dry weight):	ug/L			**Sample Size:**	10 mL

Analyte	MDL	RL	Concentration	Dilution	Comm	Qualifier
Bromoform	0.500	1.00	0.500	1		U
Bromomethane	0.190	3.00	0.190	1		U
Carbon tetrachloride	0.250	1.00	0.250	1		U
Chlorobenzene	0.160	0.500	0.160	1		U
Chloroethane	0.500	1.00	0.500	1		U
Chloroform	0.100	0.500	0.100	1		U
Chloromethane	0.500	1.00	0.500	1		U
cis-1,2-Dichloroethene	0.160	1.00	0.190	1		F
cis-1,3-Dichloropropene	0.250	0.500	0.250	1		U
Dibromochloromethane	0.160	0.500	0.160	1		U
Dibromomethane	0.160	1.00	0.160	1		U
Dichlorodifluoromethane	0.250	1.00	0.250	1		U
Ethylbenzene	0.100	1.00	0.100	1		U
Hexachlorobutadiene	0.500	1.00	0.500	1		U
Isopropylbenzene	0.160	1.00	0.780	1		F
Methyl tert-butyl ether	0.500	5.00	0.500	1		U
Methylene chloride	0.160	1.00	0.160	1		U
n-Butylbenzene	0.160	1.00	0.160	1		U
n-Propylbenzene	0.100	1.00	0.100	1		U
Naphthalene	0.500	1.00	0.500	1		U
o-Xylene	0.160	1.00	0.160	1		U
p-Isopropyltoluene	0.160	1.00	0.160	1		U
sec-Butylbenzene	0.160	1.00	0.160	1		U
Styrene	0.160	1.00	0.160	1		U
tert-Butylbenzene	0.160	1.00	1.72	1		
Tetrachloroethene	0.100	1.00	0.100	1		U
Toluene	0.100	1.00	0.100	1		U
trans-1,2-Dichloroethene	0.160	1.00	0.160	1		U
trans-1,3-Dichloropropene	0.250	1.00	0.250	1		U
Trichloroethene	0.100	1.00	0.100	1		U
Trichlorofluoromethane	0.100	1.00	0.100	1		U
Vinyl chloride	0.500	1.00	0.500	1		U

Comments:

dwt
4/16/08

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R13058
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	TF3M11710SA	**Lab Sample ID:**	0803106-004A	**Matrix:**	Groundwater
% Solids:	0	**Initial Calibration ID:**	1204	**File ID:**	T1969.D
Date Received:	21-Mar-08	**Date Extracted:**		**Date Analyzed:**	24-Mar-08
Concentration Units (ug/L or mg/Kg dry weight):	ug/L			**Sample Size:**	10 mL

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifiers
Xylenes (total)	0.260	2.00	0.260	1		U

Surrogate	Recovery	Control Limits	Qualifier
1,2-Dichloroethane-d4	102	72 - 119	
4-Bromofluorobenzene	100	76 - 119	
Toluene-d8	113	81 - 120	

cwt 4/16/08

Internal Std	Area Counts	Area Count Limits	Qualifier
1,4-Dichlorobenzene-d4	735795	306228 - 1224912	
Chlorobenzene-d5	873886	370666 - 1482666	
Fluorobenzene	1939391	849584 - 3398336	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R13111
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	TF3M12313SA	**Lab Sample ID:**	0803106-005A	**Matrix:**	Groundwater
% Solids:	0	**Initial Calibration ID:**	1212	**File ID:**	M4730.D
Date Received:	21-Mar-08	**Date Extracted:**		**Date Analyzed:**	28-Mar-08
Concentration Units (ug/L or mg/Kg dry weight):	µg/L			**Sample Size:**	25 mL

Analyte	MDL	RL	Concentration	Dilution	Comment	Qualifier
(m+p)-Xylene	0.200	4.00	0.200	2		U
1,1,1,2-Tetrachloroethane	0.500	1.00	0.500	2		U
1,1,1-Trichloroethane	0.320	2.00	0.320	2		U
1,1,2,2-Tetrachloroethane	0.320	1.00	0.320	2		U
1,1,2-Trichloroethane	0.500	2.00	0.500	2		U
1,1-Dichloroethane	0.320	2.00	0.320	2		U
1,1-Dichloroethene	0.500	2.00	0.500	2		U
1,1-Dichloropropene	0.500	2.00	0.500	2		U
1,2,3-Trichlorobenzene	1.00	2.00	1.00	2		U
1,2,3-Trichloropropane	2.00	4.00	2.00	2		U
1,2,4-Trichlorobenzene	1.00	2.00	1.00	2		U
1,2,4-Trimethylbenzene	0.320	2.00	11.4	2		
1,2-Dibromo-3-chloropropane	5.00	10.0	5.00	2		U
1,2-Dibromoethane	0.500	2.00	0.500	2		U
1,2-Dichlorobenzene	0.320	2.00	0.320	2		U
1,2-Dichloroethane	0.500	1.00	0.500	2		U
1,2-Dichloropropane	0.320	2.00	0.320	2		U
1,3,5-Trimethylbenzene	0.320	2.00	2.94	2		J
1,3-Dichlorobenzene	0.320	2.00	0.320	2		U
1,3-Dichloropropane	0.320	1.00	0.320	2		U
1,4-Dichlorobenzene	0.320	1.00	0.320	2		U
1-Chlorohexane	0.500	2.00	0.500	2		U
2,2-Dichloropropane	1.00	2.00	1.00	2		U
2-Butanone	5.00	20.0	5.00	2		UM
2-Chlorotoluene	0.200	2.00	0.200	2		U
4-Chlorotoluene	0.200	2.00	0.200	2		U
4-Methyl-2-pentanone	2.00	20.0	2.00	2		UM
Acetone	5.00	20.0	5.00	2		UM
Benzene	0.320	1.00	0.320	2		U
Bromobenzene	0.320	2.00	0.320	2		U
Bromochloromethane	0.320	2.00	0.320	2		U
Bromodichloromethane	0.320	1.00	0.320	2		U

Comments:

cvt
4/16/08

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ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R13111
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	TF3M12313SA	**Lab Sample ID:**	0803106-005A	**Matrix:**	Groundwater
% Solids:	0	**Initial Calibration ID:**	1212	**File ID:**	M4730.D
Date Received:	21-Mar-08	**Date Extracted:**		**Date Analyzed:**	28-Mar-08
Concentration Units (ug/L or mg/Kg dry weight):	ug/L			**Sample Size:**	25 mL

Analyte	MDL	RL	Concentration	Dilution	Comment	Qualifier
Bromoform	1.00	2.00	1.00	2		U
Bromomethane	0.380	6.00	0.380	2		U
Carbon tetrachloride	0.500	2.00	0.500	2		U
Chlorobenzene	0.320	1.00	0.320	2		U
Chloroethane	1.00	2.00	1.00	2		U
Chloroform	0.200	1.00	0.200	2		U
Chloromethane	1.00	2.00	1.00	2		U
cis-1,2-Dichloroethene	0.320	2.00	0.320	2		U
cis-1,3-Dichloropropene	0.500	1.00	0.500	2		U
Dibromochloromethane	0.320	1.00	0.320	2		U
Dibromomethane	0.320	2.00	0.320	2		U
Dichlorodifluoromethane	0.500	2.00	0.500	2		U
Ethylbenzene	0.200	2.00	0.200	2		U
Hexachlorobutadiene	1.00	2.00	1.00	2		U
Isopropylbenzene	0.320	2.00	63.9	2		
Methyl tert-butyl ether	1.00	10.0	1.00	2		U
Methylene chloride	0.320	2.00	0.320	2		U
n-Butylbenzene	0.320	2.00	2.20	2		
n-Propylbenzene	0.200	2.00	7.22	2		J
Naphthalene	1.00	2.00	1.00	2		U
o-Xylene	0.320	2.00	0.320	2		U
p-Isopropyltoluene	0.320	2.00	1.92	2		F
sec-Butylbenzene	0.320	2.00	1.84	2		F
Styrene	0.320	2.00	0.320	2		U
tert-Butylbenzene	0.320	2.00	0.320	2		U
Tetrachloroethene	0.200	2.00	0.200	2		U
Toluene	0.200	2.00	0.200	2		U
trans-1,2-Dichloroethene	0.320	2.00	0.320	2		U
trans-1,3-Dichloropropene	0.500	2.00	0.500	2		U
Trichloroethene	0.200	2.00	0.200	2		U
Trichlorofluoromethane	0.200	2.00	0.200	2		U
Vinyl chloride	1.00	2.00	1.00	2		U

Comments:

cnt 4/16/08

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ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R13111
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	TF3M12313SA	**Lab Sample ID:**	0803106-005A	**Matrix:**	Groundwater
% Solids:	0	**Initial Calibration ID:**	1212	**File ID:**	M4730.D
Date Received:	21-Mar-08	**Date Extracted:**		**Date Analyzed:**	28-Mar-08
Concentration Units (ug/L or mg/Kg dry weight):	ug/L			**Sample Size:**	25 mL

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
Xylenes (total)	0.520	4.00	0.520	2		U

Surrogate	Recovery	Control Limits	Qualifier
1,2-Dichloroethane-d4	115	72 - 119	
4-Bromofluorobenzene	116	76 - 119	
Toluene-d8	115	81 - 120	

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Internal Std	Area Counts	Area Count Limits	Qualifier
1,4-Dichlorobenzene-d4	1917740	992054 - 3968218	
Chlorobenzene-d5	2981066	1470392 - 5881570	
Fluorobenzene	5863087	2867034 - 11468136	

Comments:

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ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R13111
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	TF3M12313SA	**Lab Sample ID:**	0803106-005AMS	**Matrix:**	Aqueous
% Solids:	0	**Initial Calibration ID:**	1212	**File ID:**	M4726.D
Date Received:	21-Mar-08	**Date Extracted:**		**Date Analyzed:**	28-Mar-08
Concentration Units (ug/L or mg/Kg dry weight):	ug/L			**Sample Size:**	25 mL

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
(m+p)-Xylene	0.200	4.00	41.6	2		
1,1,1,2-Tetrachloroethane	0.500	1.00	21.3	2		
1,1,1-Trichloroethane	0.320	2.00	19.3	2		
1,1,2,2-Tetrachloroethane	0.320	1.00	21.4	2		
1,1,2-Trichloroethane	0.500	2.00	23.8	2		
1,1-Dichloroethane	0.320	2.00	22.2	2		
1,1-Dichloroethene	0.500	2.00	23.5	2		
1,1-Dichloropropene	0.500	2.00	19.6	2		
1,2,3-Trichlorobenzene	1.00	2.00	20.1	2		
1,2,3-Trichloropropane	2.00	4.00	18.8	2		
1,2,4-Trichlorobenzene	1.00	2.00	20.3	2		
1,2,4-Trimethylbenzene	0.320	2.00	31.2	2		
1,2-Dibromo-3-chloropropane	5.00	10.0	21.4	2		
1,2-Dibromoethane	0.500	2.00	21.9	2		
1,2-Dichlorobenzene	0.320	2.00	21.1	2		
1,2-Dichloroethane	0.500	1.00	21.5	2		
1,2-Dichloropropane	0.320	2.00	21.6	2		
1,3,5-Trimethylbenzene	0.320	2.00	26.2	2		
1,3-Dichlorobenzene	0.320	2.00	21.8	2		
1,3-Dichloropropane	0.320	1.00	21.4	2		
1,4-Dichlorobenzene	0.320	1.00	21.2	2		
1-Chlorohexane	0.500	2.00	20.2	2		
2,2-Dichloropropane	1.00	2.00	20.0	2		
2-Butanone	5.00	20.0	86.9	2		M
2-Chlorotoluene	0.200	2.00	20.6	2		
4-Chlorotoluene	0.200	2.00	23.2	2		
4-Methyl-2-pentanone	2.00	20.0	61.7	2		M
Acetone	5.00	20.0	90.1	2		M
Benzene	0.320	1.00	22.1	2		
Bromobenzene	0.320	2.00	20.3	2		
Bromochloromethane	0.320	2.00	20.5	2		
Bromodichloromethane	0.320	1.00	21.3	2		

Comments:

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ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R13058
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	TF3M12313SC	**Lab Sample ID:**	0803106-006A	**Matrix:**	Groundwater
% Solids:	0	**Initial Calibration ID:**	1204	**File ID:**	T1970.D
Date Received:	21-Mar-08	**Date Extracted:**		**Date Analyzed:**	24-Mar-08
Concentration Units (ug/L or mg/Kg dry weight):	ug/L			**Sample Size:**	10 mL

Analyte	MDL	RL	Concentration	Dilution	Comment	Qualifier
(m+p)-Xylene	0.200	4.00	0.200	2		U
1,1,1,2-Tetrachloroethane	0.500	1.00	0.500	2		U
1,1,1-Trichloroethane	0.320	2.00	0.320	2		U
1,1,2,2-Tetrachloroethane	0.320	1.00	0.320	2		U
1,1,2-Trichloroethane	0.500	2.00	0.500	2		U
1,1-Dichloroethane	0.320	2.00	0.320	2		U
1,1-Dichloroethene	0.500	2.00	0.500	2		U
1,1-Dichloropropene	0.500	2.00	0.500	2		U
1,2,3-Trichlorobenzene	1.00	2.00	1.00	2		U
1,2,3-Trichloropropane	2.00	4.00	2.00	2		U
1,2,4-Trichlorobenzene	1.00	2.00	1.00	2		U
1,2,4-Trimethylbenzene	0.320	2.00	9.56	2		
1,2-Dibromo-3-chloropropane	5.00	10.0	5.00	2		U
1,2-Dibromoethane	0.500	2.00	0.500	2		U
1,2-Dichlorobenzene	0.320	2.00	0.320	2		U
1,2-Dichloroethane	0.500	1.00	0.500	2		U
1,2-Dichloropropane	0.320	2.00	0.320	2		U
1,3,5-Trimethylbenzene	0.320	2.00	2.16	2		J
1,3-Dichlorobenzene	0.320	2.00	0.320	2		U
1,3-Dichloropropane	0.320	1.00	0.320	2		U
1,4-Dichlorobenzene	0.320	1.00	0.320	2		U
1-Chlorohexane	0.500	2.00	0.500	2		U
2,2-Dichloropropane	1.00	2.00	1.00	2		U
2-Butanone	5.00	20.0	5.00	2		UM
2-Chlorotoluene	0.200	2.00	0.200	2		U
4-Chlorotoluene	0.200	2.00	0.200	2		U
4-Methyl-2-pentanone	2.00	20.0	2.00	2		UM
Acetone	5.00	20.0	5.00	2		U M
Benzene	0.320	1.00	0.320	2		U
Bromobenzene	0.320	2.00	0.320	2		U
Bromochloromethane	0.320	2.00	0.320	2		U
Bromodichloromethane	0.320	1.00	0.320	2		U

Comments:

CWA 4/16/08

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R13111
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	TF3M12313SA	**Lab Sample ID:**	0803106-005AMSD	**Matrix:**	Aqueous
% Solids:	0	**Initial Calibration ID:**	1212	**File ID:**	M4727.D
Date Received:	21-Mar-08	**Date Extracted:**		**Date Analyzed:**	28-Mar-08
Concentration Units (ug/L or mg/Kg dry weight):	ug/L			**Sample Size:**	25 mL

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
Xylenes (total)	0.520	4.00	64.9	2		

Surrogate	Recovery	Control Limits	Qualifier
1,2-Dichloroethane-d4	106	72 - 119	
4-Bromofluorobenzene	109	76 - 119	
Toluene-d8	110	81 - 120	

Internal Std	Area Counts	Area Count Limits	Qualifier
1,4-Dichlorobenzene-d4	1952252	992054 - 3968218	
Chlorobenzene-d5	2870196	1470392 - 5881570	
Fluorobenzene	5529068	2867034 - 11468136	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R13058
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	TF3M12313SC	**Lab Sample ID:**	0803106-006A	**Matrix:**	Groundwater
% Solids:	0	**Initial Calibration ID:**	1204	**File ID:**	T1970.D
Date Received:	21-Mar-08	**Date Extracted:**		**Date Analyzed:**	24-Mar-08
Concentration Units (ug/L or mg/Kg dry weight):	ug/L			**Sample Size:**	10 mL

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
Bromoform	1.00	2.00	1.00	2		U
Bromomethane	0.380	6.00	0.380	2		U
Carbon tetrachloride	0.500	2.00	0.500	2		U
Chlorobenzene	0.320	1.00	0.320	2		U
Chloroethane	1.00	2.00	1.00	2		U
Chloroform	0.200	1.00	0.200	2		U
Chloromethane	1.00	2.00	1.00	2		U
cis-1,2-Dichloroethene	0.320	2.00	0.320	2		U
cis-1,3-Dichloropropene	0.500	1.00	0.500	2		U
Dibromochloromethane	0.320	1.00	0.320	2		U
Dibromomethane	0.320	2.00	0.320	2		U
Dichlorodifluoromethane	0.500	2.00	0.500	2		U
Ethylbenzene	0.200	2.00	0.200	2		U
Hexachlorobutadiene	1.00	2.00	1.00	2		U
Isopropylbenzene	0.320	2.00	52.6	2		
Methyl tert-butyl ether	1.00	10.0	1.00	2		U
Methylene chloride	0.320	2.00	0.320	2		U
n-Butylbenzene	0.320	2.00	1.06	2		F
n-Propylbenzene	0.200	2.00	5.62	2		J
Naphthalene	1.00	2.00	1.00	2		U
o-Xylene	0.320	2.00	0.320	2		U
p-Isopropyltoluene	0.320	2.00	1.20	2		F
sec-Butylbenzene	0.320	2.00	1.02	2		F
Styrene	0.320	2.00	0.320	2		U
tert-Butylbenzene	0.320	2.00	1.00	2		F
Tetrachloroethene	0.200	2.00	0.200	2		U
Toluene	0.200	2.00	0.200	2		U
trans-1,2-Dichloroethene	0.320	2.00	0.320	2		U
trans-1,3-Dichloropropene	0.500	2.00	0.500	2		U
Trichloroethene	0.200	2.00	0.200	2		U
Trichlorofluoromethane	0.200	2.00	0.200	2		U
Vinyl chloride	1.00	2.00	1.00	2		U

Comments:

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AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R13058
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	TF3M12313SC	**Lab Sample ID:**	0803106-006A	**Matrix:**	Groundwater
% Solids:	0	**Initial Calibration ID:**	1204	**File ID:**	T1970.D
Date Received:	21-Mar-08	**Date Extracted:**		**Date Analyzed:**	24-Mar-08
Concentration Units (ug/L or mg/Kg dry weight):	ug/L			**Sample Size:**	10 mL

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
Xylenes (total)	0.520	4.00	0.520	2		U

Surrogate	Recovery	Control Limits	Qualifier
1,2-Dichloroethane-d4	102	72 - 119	
4-Bromofluorobenzene	101	76 - 119	
Toluene-d8	104	81 - 120	

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Internal Std	Area Counts	Area Count Limits	Qualifier
1,4-Dichlorobenzene-d4	745650	306228 - 1224912	
Chlorobenzene-d5	831035	370666 - 1482666	
Fluorobenzene	1937094	849584 - 3398336	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R13058
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	TF3M12613SA	**Lab Sample ID:**	0803106-007A	**Matrix:**	Groundwater
% Solids:	0	**Initial Calibration ID:**	1204	**File ID:**	T1971.D
Date Received:	21-Mar-08	**Date Extracted:**		**Date Analyzed:**	24-Mar-08
Concentration Units (ug/L or mg/Kg dry weight):	ug/L			**Sample Size:**	10 mL

Analyte	MDL	RL	Concentration	Dilution	Comment	Qualifier
(m+p)-Xylene	0.100	2.00	0.100	1		U
1,1,1,2-Tetrachloroethane	0.250	0.500	0.250	1		U
1,1,1-Trichloroethane	0.160	1.00	0.160	1		U
1,1,2,2-Tetrachloroethane	0.160	0.500	0.160	1		U
1,1,2-Trichloroethane	0.250	1.00	0.250	1		U
1,1-Dichloroethane	0.160	1.00	0.160	1		U
1,1-Dichloroethene	0.250	1.00	0.250	1		U
1,1-Dichloropropene	0.250	1.00	0.250	1		U
1,2,3-Trichlorobenzene	0.500	1.00	0.500	1		U
1,2,3-Trichloropropane	1.00	2.00	1.00	1		U
1,2,4-Trichlorobenzene	0.500	1.00	0.500	1		U
1,2,4-Trimethylbenzene	0.160	1.00	0.160	1		U
1,2-Dibromo-3-chloropropane	2.50	5.00	2.50	1		U
1,2-Dibromoethane	0.250	1.00	0.250	1		U
1,2-Dichlorobenzene	0.160	1.00	0.160	1		U
1,2-Dichloroethane	0.250	0.500	0.250	1		U
1,2-Dichloropropane	0.160	1.00	0.160	1		U
1,3,5-Trimethylbenzene	0.160	1.00	0.160	1		U
1,3-Dichlorobenzene	0.160	1.00	0.160	1		U
1,3-Dichloropropane	0.160	0.500	0.160	1		U
1,4-Dichlorobenzene	0.160	0.500	0.160	1		U
1-Chlorohexane	0.250	1.00	0.250	1		U
2,2-Dichloropropane	0.500	1.00	0.500	1		U
2-Butanone	2.50	10.0	2.50	1		U
2-Chlorotoluene	0.100	1.00	0.100	1		U
4-Chlorotoluene	0.100	1.00	0.100	1		U
4-Methyl-2-pentanone	1.00	10.0	1.00	1		U
Acetone	2.50	10.0	2.50	1		U
Benzene	0.160	0.500	0.160	1		U
Bromobenzene	0.160	1.00	0.160	1		U
Bromochloromethane	0.160	1.00	0.160	1		U
Bromodichloromethane	0.160	0.500	0.160	1		U

Comments:

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ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R13058
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	TF3M12613SA	**Lab Sample ID:**	0803106-007A	**Matrix:**	Groundwater
% Solids:	0	**Initial Calibration ID:**	1204	**File ID:**	T1971.D
Date Received:	21-Mar-08	**Date Extracted:**		**Date Analyzed:**	24-Mar-08
Concentration Units (ug/L or mg/Kg dry weight):	ug/L			**Sample Size:**	10 mL

Analyte	MDL	RL	Concentration	Dilution Factor	Confirm	Qualifier
Bromoform	0.500	1.00	0.500	1		U
Bromomethane	0.190	3.00	0.190	1		U
Carbon tetrachloride	0.250	1.00	0.250	1		U
Chlorobenzene	0.160	0.500	0.160	1		U
Chloroethane	0.500	1.00	0.500	1		U
Chloroform	0.100	0.500	0.100	1		U
Chloromethane	0.500	1.00	0.500	1		U
cis-1,2-Dichloroethene	0.160	1.00	0.160	1		U
cis-1,3-Dichloropropene	0.250	0.500	0.250	1		U
Dibromochloromethane	0.160	0.500	0.160	1		U
Dibromomethane	0.160	1.00	0.160	1		U
Dichlorodifluoromethane	0.250	1.00	0.250	1		U
Ethylbenzene	0.100	1.00	0.100	1		U
Hexachlorobutadiene	0.500	1.00	0.500	1		U
Isopropylbenzene	0.160	1.00	0.160	1		U
Methyl tert-butyl ether	0.500	5.00	0.500	1		U
Methylene chloride	0.160	1.00	0.160	1		U
n-Butylbenzene	0.160	1.00	0.160	1		U
n-Propylbenzene	0.100	1.00	0.100	1		U
Naphthalene	0.500	1.00	0.500	1		U
o-Xylene	0.160	1.00	0.160	1		U
p-Isopropyltoluene	0.160	1.00	0.160	1		U
sec-Butylbenzene	0.160	1.00	1.97	1		
Styrene	0.160	1.00	0.160	1		U
tert-Butylbenzene	0.160	1.00	0.610	1		F
Tetrachloroethene	0.100	1.00	0.100	1		U
Toluene	0.100	1.00	0.100	1		U
trans-1,2-Dichloroethene	0.160	1.00	0.160	1		U
trans-1,3-Dichloropropene	0.250	1.00	0.250	1		U
Trichloroethene	0.100	1.00	0.100	1		U
Trichlorofluoromethane	0.100	1.00	0.100	1		U
Vinyl chloride	0.500	1.00	0.500	1		U

Comments:

cwt 4/16/08

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ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R13058
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	TF3M12613SA	**Lab Sample ID:**	0803106-007A	**Matrix:**	Groundwater
% Solids:	0	**Initial Calibration ID:**	1204	**File ID:**	T1971.D
Date Received:	21-Mar-08	**Date Extracted:**		**Date Analyzed:**	24-Mar-08
Concentration Units (ug/L or mg/Kg dry weight):	ug/L			**Sample Size:**	10 mL

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifiers
Xylenes (total)	0.260	2.00	0.260	1		U

Surrogate	Recovery	Control Limits	Qualifier
1,2-Dichloroethane-d4	104	72 - 119	
4-Bromofluorobenzene	104	76 - 119	
Toluene-d8	110	81 - 120	

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Internal Std	Area Counts	Area Count Limits	Qualifier
1,4-Dichlorobenzene-d4	721397	306228 - 1224912	
Chlorobenzene-d5	844654	370666 - 1482666	
Fluorobenzene	1901815	849584 - 3398336	

Comments:

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ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R13066
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	TF3M12712SA	**Lab Sample ID:**	0803106-008A	**Matrix:**	Groundwater
% Solids:	0	**Initial Calibration ID:**	1204	**File ID:**	T1991.D
Date Received:	21-Mar-08	**Date Extracted:**		**Date Analyzed:**	25-Mar-08
Concentration Units (ug/L or mg/Kg dry weight):	ug/L			**Sample Size:**	10 mL

Analyte	MDL	RL	Concentration	Dilution	Comment	Qualifier
(m+p)-Xylene	0.100	2.00	12.3	1		
1,1,1,2-Tetrachloroethane	0.250	0.500	0.250	1		U
1,1,1-Trichloroethane	0.160	1.00	0.160	1		U
1,1,2,2-Tetrachloroethane	0.160	0.500	0.160	1		U
1,1,2-Trichloroethane	0.250	1.00	0.250	1		U
1,1-Dichloroethane	0.160	1.00	0.160	1		U
1,1-Dichloroethene	0.250	1.00	0.250	1		U
1,1-Dichloropropene	0.250	1.00	0.250	1		U
1,2,3-Trichlorobenzene	0.500	1.00	0.500	1		U
1,2,3-Trichloropropane	1.00	2.00	1.00	1		U
1,2,4-Trichlorobenzene	0.500	1.00	0.500	1		U
1,2,4-Trimethylbenzene	0.160	1.00	14.5	1		
1,2-Dibromo-3-chloropropane	2.50	5.00	2.50	1		U
1,2-Dibromoethane	0.250	1.00	0.250	1		U
1,2-Dichlorobenzene	0.160	1.00	0.160	1		U
1,2-Dichloroethane	0.250	0.500	0.250	1		U
1,2-Dichloropropane	0.160	1.00	0.160	1		U
1,3,5-Trimethylbenzene	0.160	1.00	0.160	1		U
1,3-Dichlorobenzene	0.160	1.00	0.160	1		U
1,3-Dichloropropane	0.160	0.500	0.160	1		U
1,4-Dichlorobenzene	0.160	0.500	0.160	1		U
1-Chlorohexane	0.250	1.00	0.250	1		U
2,2-Dichloropropane	0.500	1.00	0.500	1		U
2-Butanone	2.50	10.0	2.50	1		U
2-Chlorotoluene	0.100	1.00	0.100	1		U
4-Chlorotoluene	0.100	1.00	0.100	1		U
4-Methyl-2-pentanone	1.00	10.0	1.00	1		U
Acetone	2.50	10.0	2.50	1		U
Benzene	0.160	0.500	0.730	1		
Bromobenzene	0.160	1.00	0.160	1		U
Bromochloromethane	0.160	1.00	0.160	1		U
Bromodichloromethane	0.160	0.500	0.160	1		U

Comments:

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ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R13066
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	TF3M12712SA	**Lab Sample ID:**	0803106-008A	**Matrix:**	Groundwater
% Solids:	0	**Initial Calibration ID:**	1204	**File ID:**	T1991.D
Date Received:	21-Mar-08	**Date Extracted:**		**Date Analyzed:**	25-Mar-08
Concentration Units (ug/L or mg/Kg dry weight):	ug/L			**Sample Size:**	10 mL

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
Bromoform	0.500	1.00	0.500	1		U
Bromomethane	0.190	3.00	0.190	1		U
Carbon tetrachloride	0.250	1.00	0.250	1		U
Chlorobenzene	0.160	0.500	0.160	1		U
Chloroethane	0.500	1.00	0.500	1		U
Chloroform	0.100	0.500	0.100	1		U
Chloromethane	0.500	1.00	0.500	1		U
cis-1,2-Dichloroethene	0.160	1.00	0.160	1		U
cis-1,3-Dichloropropene	0.250	0.500	0.250	1		U
Dibromochloromethane	0.160	0.500	0.160	1		U
Dibromomethane	0.160	1.00	0.160	1		U
Dichlorodifluoromethane	0.250	1.00	0.250	1		U
Ethylbenzene	0.100	1.00	15.6	1		
Hexachlorobutadiene	0.500	1.00	0.500	1		U
Isopropylbenzene	0.160	1.00	3.79	1		
Methyl tert-butyl ether	0.500	5.00	0.500	1		U
Methylene chloride	0.160	1.00	0.160	1		U
n-Butylbenzene	0.160	1.00	0.160	1		U
n-Propylbenzene	0.100	1.00	3.39	1		
Naphthalene	0.500	1.00	3.83	1		
o-Xylene	0.160	1.00	0.160	1		U
p-Isopropyltoluene	0.160	1.00	0.400	1		F
sec-Butylbenzene	0.160	1.00	0.260	1		F
Styrene	0.160	1.00	0.160	1		U
tert-Butylbenzene	0.160	1.00	0.160	1		U
Tetrachloroethene	0.100	1.00	0.100	1		U
Toluene	0.100	1.00	0.100	1		U
trans-1,2-Dichloroethene	0.160	1.00	0.160	1		U
trans-1,3-Dichloropropene	0.250	1.00	0.250	1		U
Trichloroethene	0.100	1.00	0.130	1		F
Trichlorofluoromethane	0.100	1.00	0.100	1		U
Vinyl chloride	0.500	1.00	0.500	1		U

Comments:

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ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R13066
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	TF3M12712SA	**Lab Sample ID:**	0803106-008A	**Matrix:**	Groundwater
% Solids:	0	**Initial Calibration ID:**	1204	**File ID:**	T1991.D
Date Received:	21-Mar-08	**Date Extracted:**		**Date Analyzed:**	25-Mar-08
Concentration Units (ug/L or mg/Kg dry weight):	ug/L			**Sample Size:**	10 mL

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
Xylenes (total)	0.260	2.00	12.3	1		

Surrogate	Recovery	Control Limits	Qualifier
1,2-Dichloroethane-d4	111	72 - 119	
4-Bromofluorobenzene	100	76 - 119	
Toluene-d8	103	81 - 120	

Internal Std	Area Counts	Area Count Limits	Qualifier
1,4-Dichlorobenzene-d4	714543	306228 - 1224912	
Chlorobenzene-d5	785982	370666 - 1482666	
Fluorobenzene	1750969	849584 - 3398336	

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Comments:

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ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R13058
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	TF3M12813SA	**Lab Sample ID:**	0803106-009A	**Matrix:**	Groundwater
% Solids:	0	**Initial Calibration ID:**	1204	**File ID:**	T1973.D
Date Received:	21-Mar-08	**Date Extracted:**		**Date Analyzed:**	24-Mar-08
Concentration Units (ug/L or mg/Kg dry weight):	ug/L			**Sample Size:**	10 mL

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
(m+p)-Xylene	0.100	2.00	0.380	1		F
1,1,1,2-Tetrachloroethane	0.250	0.500	0.250	1		U
1,1,1-Trichloroethane	0.160	1.00	0.160	1		U
1,1,2,2-Tetrachloroethane	0.160	0.500	0.160	1		U
1,1,2-Trichloroethane	0.250	1.00	0.250	1		U
1,1-Dichloroethane	0.160	1.00	0.160	1		U
1,1-Dichloroethene	0.250	1.00	0.250	1		U
1,1-Dichloropropene	0.250	1.00	0.250	1		U
1,2,3-Trichlorobenzene	0.500	1.00	0.500	1		U
1,2,3-Trichloropropane	1.00	2.00	1.00	1		U
1,2,4-Trichlorobenzene	0.500	1.00	0.500	1		U
1,2,4-Trimethylbenzene	0.160	1.00	0.640	1		F
1,2-Dibromo-3-chloropropane	2.50	5.00	2.50	1		U
1,2-Dibromoethane	0.250	1.00	0.250	1		U
1,2-Dichlorobenzene	0.160	1.00	0.160	1		U
1,2-Dichloroethane	0.250	0.500	0.250	1		U
1,2-Dichloropropane	0.160	1.00	0.160	1		U
1,3,5-Trimethylbenzene	0.160	1.00	0.160	1		U
1,3-Dichlorobenzene	0.160	1.00	0.160	1		U
1,3-Dichloropropane	0.160	0.500	0.160	1		U
1,4-Dichlorobenzene	0.160	0.500	0.160	1		U
1-Chlorohexane	0.250	1.00	0.250	1		U
2,2-Dichloropropane	0.500	1.00	0.500	1		U
2-Butanone	2.50	10.0	2.50	1		U
2-Chlorotoluene	0.100	1.00	0.100	1		U
4-Chlorotoluene	0.100	1.00	0.100	1		U
4-Methyl-2-pentanone	1.00	10.0	1.00	1		U
Acetone	2.50	10.0	2.50	1		U
Benzene	0.160	0.500	0.160	1		U
Bromobenzene	0.160	1.00	0.160	1		U
Bromochloromethane	0.160	1.00	0.160	1		U
Bromodichloromethane	0.160	0.500	0.160	1		U

Comments:

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4/16/08

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ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R13058
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	TF3M12813SA	**Lab Sample ID:**	0803106-009A	**Matrix:**	Groundwater
% Solids:	0	**Initial Calibration ID:**	1204	**File ID:**	T1973.D
Date Received:	21-Mar-08	**Date Extracted:**		**Date Analyzed:**	24-Mar-08
Concentration Units (ug/L or mg/Kg dry weight):	ug/L			**Sample Size:**	10 mL

Analyte	MDL	RL	Concentration	Dilution	Confirmation	Qualifier
Bromoform	0.500	1.00	0.500	1		U
Bromomethane	0.190	3.00	0.190	1		U
Carbon tetrachloride	0.250	1.00	0.250	1		U
Chlorobenzene	0.160	0.500	0.160	1		U
Chloroethane	0.500	1.00	0.500	1		U
Chloroform	0.100	0.500	0.100	1		U
Chloromethane	0.500	1.00	0.500	1		U
cis-1,2-Dichloroethene	0.160	1.00	0.160	1		U
cis-1,3-Dichloropropene	0.250	0.500	0.250	1		U
Dibromochloromethane	0.160	0.500	0.160	1		U
Dibromomethane	0.160	1.00	0.160	1		U
Dichlorodifluoromethane	0.250	1.00	0.250	1		U
Ethylbenzene	0.100	1.00	0.630	1		F
Hexachlorobutadiene	0.500	1.00	0.500	1		U
Isopropylbenzene	0.160	1.00	0.390	1		F
Methyl tert-butyl ether	0.500	5.00	0.500	1		U
Methylene chloride	0.160	1.00	0.160	1		U
n-Butylbenzene	0.160	1.00	0.160	1		U
n-Propylbenzene	0.100	1.00	0.260	1		F
Naphthalene	0.500	1.00	0.680	1		F
o-Xylene	0.160	1.00	0.160	1		U
p-Isopropyltoluene	0.160	1.00	0.160	1		U
sec-Butylbenzene	0.160	1.00	0.160	1		U
Styrene	0.160	1.00	0.160	1		U
tert-Butylbenzene	0.160	1.00	0.160	1		U
Tetrachloroethene	0.100	1.00	0.100	1		U
Toluene	0.100	1.00	0.100	1		U
trans-1,2-Dichloroethene	0.160	1.00	0.160	1		U
trans-1,3-Dichloropropene	0.250	1.00	0.250	1		U
Trichloroethene	0.100	1.00	0.100	1		U
Trichlorofluoromethane	0.100	1.00	0.100	1		U
Vinyl chloride	0.500	1.00	0.500	1		U

Comments:

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ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R13058
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	TF3M12813SA	**Lab Sample ID:**	0803106-009A	**Matrix:**	Groundwater
% Solids:	0	**Initial Calibration ID:**	1204	**File ID:**	T1973.D
Date Received:	21-Mar-08	**Date Extracted:**		**Date Analyzed:**	24-Mar-08
Concentration Units (ug/L or mg/Kg dry weight):	ug/L			**Sample Size:**	10 mL

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
Xylenes (total)	0.260	2.00	0.380	1		F

Surrogate	Recovery	Control Limits	Qualifier
1,2-Dichloroethane-d4	107	72 - 119	
4-Bromofluorobenzene	101	76 - 119	
Toluene-d8	103	81 - 120	

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Internal Std	Area Counts	Area Count Limits	Qualifier
1,4-Dichlorobenzene-d4	711486	306228 - 1224912	
Chlorobenzene-d5	827511	370666 - 1482666	
Fluorobenzene	1885202	849584 - 3398336	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R13058
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	TF3M13315SA	**Lab Sample ID:**	0803106-010A	**Matrix:**	Groundwater
% Solids:	0	**Initial Calibration ID:**	1204	**File ID:**	T1974.D
Date Received:	21-Mar-08	**Date Extracted:**		**Date Analyzed:**	24-Mar-08
Concentration Units (ug/L or mg/Kg dry weight):	ug/L			**Sample Size:**	10 mL

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
(m+p)-Xylene	0.100	2.00	0.590	1		F
1,1,1,2-Tetrachloroethane	0.250	0.500	0.250	1		U
1,1,1-Trichloroethane	0.160	1.00	0.160	1		U
1,1,2,2-Tetrachloroethane	0.160	0.500	0.160	1		U
1,1,2-Trichloroethane	0.250	1.00	0.250	1		U
1,1-Dichloroethane	0.160	1.00	0.160	1		U
1,1-Dichloroethene	0.250	1.00	0.250	1		U
1,1-Dichloropropene	0.250	1.00	0.250	1		U
1,2,3-Trichlorobenzene	0.500	1.00	0.500	1		U
1,2,3-Trichloropropane	1.00	2.00	1.00	1		U
1,2,4-Trichlorobenzene	0.500	1.00	0.500	1		U
1,2,4-Trimethylbenzene	0.160	1.00	16.2	1		
1,2-Dibromo-3-chloropropane	2.50	5.00	2.50	1		U
1,2-Dibromoethane	0.250	1.00	0.250	1		U
1,2-Dichlorobenzene	0.160	1.00	0.160	1		U
1,2-Dichloroethane	0.250	0.500	0.250	1		U
1,2-Dichloropropane	0.160	1.00	0.160	1		U
1,3,5-Trimethylbenzene	0.160	1.00	0.160	1		U
1,3-Dichlorobenzene	0.160	1.00	0.160	1		U
1,3-Dichloropropane	0.160	0.500	0.160	1		U
1,4-Dichlorobenzene	0.160	0.500	0.160	1		U
1-Chlorohexane	0.250	1.00	0.250	1		U
2,2-Dichloropropane	0.500	1.00	0.500	1		U
2-Butanone	2.50	10.0	2.50	1		U
2-Chlorotoluene	0.100	1.00	0.100	1		U
4-Chlorotoluene	0.100	1.00	0.100	1		U
4-Methyl-2-pentanone	1.00	10.0	1.00	1		U
Acetone	2.50	10.0	2.50	1		U
Benzene	0.160	0.500	0.160	1		U
Bromobenzene	0.160	1.00	0.160	1		U
Bromochloromethane	0.160	1.00	0.160	1		U
Bromodichloromethane	0.160	0.500	0.160	1		U

Comments:

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AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R13058
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	TF3M13315SA	**Lab Sample ID:**	0803106-010A	**Matrix:**	Groundwater
% Solids:	0	**Initial Calibration ID:**	1204	**File ID:**	T1974.D
Date Received:	21-Mar-08	**Date Extracted:**		**Date Analyzed:**	24-Mar-08
Concentration Units (ug/L or mg/Kg dry weight):	ug/L			**Sample Size:**	10 mL

Analyte	MDL	RL	Concentration	Dilution	Comment	Qualifier
Bromoform	0.500	1.00	0.500	1		U
Bromomethane	0.190	3.00	0.190	1		U
Carbon tetrachloride	0.250	1.00	0.250	1		U
Chlorobenzene	0.160	0.500	0.160	1		U
Chloroethane	0.500	1.00	0.500	1		U
Chloroform	0.100	0.500	0.100	1		U
Chloromethane	0.500	1.00	0.500	1		U
cis-1,2-Dichloroethene	0.160	1.00	0.160	1		U
cis-1,3-Dichloropropene	0.250	0.500	0.250	1		U
Dibromochloromethane	0.160	0.500	0.160	1		U
Dibromomethane	0.160	1.00	0.160	1		U
Dichlorodifluoromethane	0.250	1.00	0.250	1		U
Ethylbenzene	0.100	1.00	0.240	1		F
Hexachlorobutadiene	0.500	1.00	0.500	1		U
Isopropylbenzene	0.160	1.00	8.70	1		
Methyl tert-butyl ether	0.500	5.00	0.500	1		U
Methylene chloride	0.160	1.00	0.160	1		U
n-Butylbenzene	0.160	1.00	0.960	1		F
n-Propylbenzene	0.100	1.00	9.23	1		
Naphthalene	0.500	1.00	1.69	1		
o-Xylene	0.160	1.00	0.160	1		U
p-Isopropyltoluene	0.160	1.00	1.98	1		
sec-Butylbenzene	0.160	1.00	4.31	1		
Styrene	0.160	1.00	0.160	1		U
tert-Butylbenzene	0.160	1.00	0.640	1		F
Tetrachloroethene	0.100	1.00	0.100	1		U
Toluene	0.100	1.00	0.100	1		U
trans-1,2-Dichloroethene	0.160	1.00	0.160	1		U
trans-1,3-Dichloropropene	0.250	1.00	0.250	1		U
Trichloroethene	0.100	1.00	0.100	1		U
Trichlorofluoromethane	0.100	1.00	0.100	1		U
Vinyl chloride	0.500	1.00	0.500	1		U

Comments:

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AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R13058
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	TF3M13315SA	**Lab Sample ID:**	0803106-010A	**Matrix:**	Groundwater
% Solids:	0	**Initial Calibration ID:**	1204	**File ID:**	T1974.D
Date Received:	21-Mar-08	**Date Extracted:**		**Date Analyzed:**	24-Mar-08
Concentration Units (ug/L or mg/Kg dry weight):	ug/L			**Sample Size:**	10 mL

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
Xylenes (total)	0.260	2.00	0.590	1		F

Surrogate	Recovery	Control Limits	Qualifier
1,2-Dichloroethane-d4	102	72 - 119	
4-Bromofluorobenzene	99	76 - 119	
Toluene-d8	108	81 - 120	

Internal Std	Area Counts	Area Count Limits	Qualifier
1,4-Dichlorobenzene-d4	726032	306228 - 1224912	
Chlorobenzene-d5	835070	370666 - 1482666	
Fluorobenzene	1896765	849584 - 3398336	

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Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R13058
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	TF3M13315SC	**Lab Sample ID:**	0803106-011A	**Matrix:**	Groundwater
% Solids:	0	**Initial Calibration ID:**	1204	**File ID:**	T1975.D
Date Received:	21-Mar-08	**Date Extracted:**		**Date Analyzed:**	24-Mar-08
Concentration Units (ug/L or mg/Kg dry weight):	ug/L			**Sample Size:**	10 mL

Analyte	MDL	RL	Concentration	Dilution	Column	Qualifier
(m+p)-Xylene	0.100	2.00	0.700	1		F
1,1,1,2-Tetrachloroethane	0.250	0.500	0.250	1		U
1,1,1-Trichloroethane	0.160	1.00	0.160	1		U
1,1,2,2-Tetrachloroethane	0.160	0.500	0.160	1		U
1,1,2-Trichloroethane	0.250	1.00	0.250	1		U
1,1-Dichloroethane	0.160	1.00	0.160	1		U
1,1-Dichloroethene	0.250	1.00	0.250	1		U
1,1-Dichloropropene	0.250	1.00	0.250	1		U
1,2,3-Trichlorobenzene	0.500	1.00	0.500	1		U
1,2,3-Trichloropropane	1.00	2.00	1.00	1		U
1,2,4-Trichlorobenzene	0.500	1.00	0.500	1		U
1,2,4-Trimethylbenzene	0.160	1.00	18.2	1		
1,2-Dibromo-3-chloropropane	2.50	5.00	2.50	1		U
1,2-Dibromoethane	0.250	1.00	0.250	1		U
1,2-Dichlorobenzene	0.160	1.00	0.160	1		U
1,2-Dichloroethane	0.250	0.500	0.250	1		U
1,2-Dichloropropane	0.160	1.00	0.160	1		U
1,3,5-Trimethylbenzene	0.160	1.00	0.160	1		U
1,3-Dichlorobenzene	0.160	1.00	0.160	1		U
1,3-Dichloropropane	0.160	0.500	0.160	1		U
1,4-Dichlorobenzene	0.160	0.500	0.160	1		U
1-Chlorohexane	0.250	1.00	0.250	1		U
2,2-Dichloropropane	0.500	1.00	0.500	1		U
2-Butanone	2.50	10.0	2.50	1		U
2-Chlorotoluene	0.100	1.00	0.100	1		U
4-Chlorotoluene	0.100	1.00	0.100	1		U
4-Methyl-2-pentanone	1.00	10.0	1.00	1		U
Acetone	2.50	10.0	2.50	1		U
Benzene	0.160	0.500	0.160	1		U
Bromobenzene	0.160	1.00	0.160	1		U
Bromochloromethane	0.160	1.00	0.160	1		U
Bromodichloromethane	0.160	0.500	0.160	1		U

Comments:

4/16/08

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R13058
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	TF3M13315SC	**Lab Sample ID:**	0803106-011A	**Matrix:**	Groundwater
% Solids:	0	**Initial Calibration ID:**	1204	**File ID:**	T1975.D
Date Received:	21-Mar-08	**Date Extracted:**		**Date Analyzed:**	24-Mar-08
Concentration Units (ug/L or mg/Kg dry weight):	ug/L			**Sample Size:**	10 mL

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
Bromoform	0.500	1.00	0.500	1		U
Bromomethane	0.190	3.00	0.190	1		U
Carbon tetrachloride	0.250	1.00	0.250	1		U
Chlorobenzene	0.160	0.500	0.160	1		U
Chloroethane	0.500	1.00	0.500	1		U
Chloroform	0.100	0.500	0.100	1		U
Chloromethane	0.500	1.00	0.500	1		U
cis-1,2-Dichloroethene	0.160	1.00	0.160	1		U
cis-1,3-Dichloropropene	0.250	0.500	0.250	1		U
Dibromochloromethane	0.160	0.500	0.160	1		U
Dibromomethane	0.160	1.00	0.160	1		U
Dichlorodifluoromethane	0.250	1.00	0.250	1		U
Ethylbenzene	0.100	1.00	0.280	1		F
Hexachlorobutadiene	0.500	1.00	0.500	1		U
Isopropylbenzene	0.160	1.00	9.75	1		
Methyl tert-butyl ether	0.500	5.00	0.500	1		U
Methylene chloride	0.160	1.00	0.160	1		U
n-Butylbenzene	0.160	1.00	1.02	1		
n-Propylbenzene	0.100	1.00	10.4	1		
Naphthalene	0.500	1.00	1.77	1		
o-Xylene	0.160	1.00	0.160	1		U
p-Isopropyltoluene	0.160	1.00	2.21	1		
sec-Butylbenzene	0.160	1.00	4.82	1		
Styrene	0.160	1.00	0.160	1		U
tert-Butylbenzene	0.160	1.00	0.710	1		F
Tetrachloroethene	0.100	1.00	0.100	1		U
Toluene	0.100	1.00	0.100	1		U
trans-1,2-Dichloroethene	0.160	1.00	0.160	1		U
trans-1,3-Dichloropropene	0.250	1.00	0.250	1		U
Trichloroethene	0.100	1.00	0.100	1		U
Trichlorofluoromethane	0.100	1.00	0.100	1		U
Vinyl chloride	0.500	1.00	0.500	1		U

Comments:

4/16/08

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R13058
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	TF3M13315SC	**Lab Sample ID:**	0803106-011A	**Matrix:**	Groundwater
% Solids:	0	**Initial Calibration ID:**	1204	**File ID:**	T1975.D
Date Received:	21-Mar-08	**Date Extracted:**		**Date Analyzed:**	24-Mar-08
Concentration Units (ug/L or mg/Kg dry weight):	ug/L			**Sample Size:**	10 mL

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
Xylenes (total)	0.260	2.00	0.700	1		F

Surrogate	Recovery	Control Limits	Qualifier
1,2-Dichloroethane-d4	102	72 - 119	
4-Bromofluorobenzene	100	76 - 119	
Toluene-d8	108	81 - 120	

Internal Std	Area Counts	Area Count Limits	Qualifier
1,4-Dichlorobenzene-d4	724238	306228 - 1224912	
Chlorobenzene-d5	842690	370666 - 1482666	
Fluorobenzene	1908082	849584 - 3398336	

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Comments:

GRIFFISS ENVIRONMENTAL SAMPLES - PETROLEUM SITES
CHEMICAL DATA QUALITY CONTROL SUMMARY MEMORANDUM: RESULTS FOR ORGANICS

Laboratory:	LSL, Inc.	FPM Contract#: 40-05-27		Method:	8260
Job Number:	0803123	LSL Project: Apron 2		Reviewer:	Connie van Hoesel
Sample Date:	3/24/08			Review Date:	5/9/08

Review Questions	Yes	No	N/A	Compounds/Samples Affected and/or Comments	Flag
1a. Were sample preservation requirements met?	X				
1b. Were sample storage requirements met?	X				
2. Were QAPP-specified RLs achieved?	X			As per approved variance.	None
3. Were measurement results for all QAPP-specified target analytes reported?	X				
4. Were all results reported between the MDL and the RL flagged F?	X				
5a. Were surrogate spikes added to every sample, control, standard, and method blank?	X				
5b. Was the %R for each surrogate spike within QAPP specifications?	X				
6. If dilutions were performed, which results should be reported?	X			Samples AP2M1411XA and AP2M1411XC were analyzed at a dilution of 1:2.5. Samples 782M10208XA and 782M10208XC were analyzed at a dilution of 1:10. Samples AP2M0319XA and AP2VM01M15XA were analyzed at a dilution of 1:50. The dilution results only are reported and used in the data verification.	None
7. Were target analytes in the field blank analyses (trip, field or equipment) reported below half the RL?					
8a. Was a method blank analyzed with each batch?	X				
8b. Were target analytes in the method blank reported below the RL?	X				

Signed: Concordia van Hoesel Dated: 4/16/08

FPM-GROUP
Data Verification and Usability Report
GRIFFISS AIR FORCE BASE
Site Griffiss AFB TANK FARM 1/3
Water Sampling
Contract No. F41624-03-D-8601

FPM Project No. 40-05-27

LSL Job # 0804056

Laboratory:	Life Sciences Laboratories, Inc.
Sample Matrix:	Water
Number of Samples:	2
Analytical Protocol:	AFCEE QAPP, Version 4.0, with AFCEE-approved lab variances
Data Reviewer:	Connie van Hoesel
Sample Date:	April 8, 2008

LIST OF DATA VERIFICATION SAMPLES

This verification report pertains to the following environmental samples and corresponding QC samples:

Sample ID	Date	QC Samples	Date
TF3M119R11SA	4/8/08		
TF3M121R11SA	4/8/08		

Notes:

Refer to attached chain-of-custody for detailed sampling information and sample specific analyses requested.
SA – Primary environmental samples

DELIVERABLES

The data deliverable report was per requirements of the AFCEE QAPP 4.0 and approved variances. The report consisted of the following major sections: lab attachment letter, case narrative, chain-of-custody, lab qualifier definitions, analytical results (sheet 2) based on analytical batch, calibration summaries, method blank summaries, laboratory control sample summaries, matrix spike/matrix spike duplicate summaries, holding time forms, performance checks, surrogate and internal standard recoveries, as applicable.

ANALYTICAL METHODS

The analytical test methods and QA/QC requirements used for the soil sample analysis was per methods as specified in the AFCEE Quality Assurance Project Plan, Version 4.0 and AFCEE approved laboratory variances. The analytical methods employed included SW-846: Volatile Organic Compounds (VOCs) by Method SW8260.

VERIFICATION GUIDANCE

The analytical work was performed by Life Sciences Laboratories, Inc. in accordance with the Air Force Center for Environmental Excellence (AFCEE), Quality Assurance Project Plan (QAPP), Version 4.0, with AFCEE-approved laboratory variances. The data was verified according to the protocols and QC requirements of the respective analytical methods and of the QAPP Version 4.0. For data usability purposes all values were further evaluated, including positive and non-detect results that were qualified "Q" according to the QAPP. The data usability analysis was based on the reviewer's professional judgment and on an assessment of how this data would fare with respect to the U.S. Environmental Protection Agency (USEPA) Contract Laboratory Program (CLP) National Functional Guidelines for Organic (and Inorganic) Data Review (February 1994), and the AFCEE QAPP, Version 4.0.

QA/QC CRITERIA

The following QA/QC criteria were reviewed, as applicable and available:

- Method detection limits and reporting limits (MDL, RL)
- Holding times, sample preservation and storage
- MS tune performance
- Initial and Continuing calibration summaries
- Second source calibration verification summary
- Method blanks
- Ambient, equipment, and trip blanks (as applicable)
- Field duplicate results
- Surrogate spike recoveries
- Internal standard areas counts and retention times

- Laboratory control samples (LCS)
- Results reported between MDL and RL (F-flag)
- Sample storage and preservation
- Data system printouts
- Qualitative and quantitative compound identification
- Chain-of-custody (COC)
- Case narrative and deliverables compliance

The items listed above were in compliance with AFCEE QAPP and USEPA criteria and protocols with exceptions discussed in the text below. The data have been verified according to the procedures outlined above and qualified accordingly.

GENERAL NOTES:

MISSING SAMPLES

None. All samples documented on the chain of custody were received by the laboratory.

BLANKS

Whenever blanks, including method, ambient, equipment, and trip, contained low levels of contaminants (between MDL and RL), the laboratory and/or data verifier qualified the subject results with an "F" flag. Since no qualification of associated field samples are required for blanks less than half the RL, no further action was taken in such instances.

VOLATILE ORGANIC COMPOUNDS (VOCs)

- According to the case narrative, the following sample was analyzed at a dilution of 1:2.5: TF3M119R11SA, due to matrix interference. The dilution results only are reported and are used in data verification as representing original results.

DATA USABILITY RESULTS

VOCs

Based on the evaluation of all information in the analytical data groups, the results of the samples for VOCs are highly usable with the data qualifiers as noted. Using the verification approach as presented above, the results for all above samples are 100% usable.

AFCEE SUMMARY

All data in Job # 0804056 are valid and usable with qualifications as noted in the data review.

Signed: Concordia van Hoesel Date: 5/21/08

ATTACHMENTS

- Chain-of-Custody
- Laboratory's Case Narrative
- Definition of AFCEE Data Qualifiers
- Definition of USEPA Data Qualifiers
- Qualified final data verification results on annotated Lab Sheet 2s

AFCEE
ORGANIC ANALYSES DATA PACKAGE

Analytical Method: SW8260B

AAB #: R13266

Lab Name: Life Science Laboratories, Inc.

Contract Number:

Base/Command:

Prime Contractor: FPM Group

Field Sample ID	Lab Sample ID
TF3M119R11SA	0804056-001A
TF3M121R11SA	0804056-002A

Comments:

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager's designee, as verified by the following signature.

Signature: Monika Santucci Name: Monika Santucci

Date: 4/28/08 Title: Project Manager

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R13266
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	TF3M119R11SA	**Lab Sample ID:**	0804056-001A	**Matrix:**	Groundwater
% Solids:	0	**Initial Calibration ID:**	1221	**File ID:**	M4890.D
Date Received:	09-Apr-08	**Date Extracted:**		**Date Analyzed:**	10-Apr-08
Concentration Units (ug/L or mg/Kg dry weight):	ug/L			**Sample Size:**	25 mL

Analyte	MDL	RL	Concentration	Dilution	Comment	Qualifier
(m+p)-Xylene	0.250	5.00	0.250	2.5		U
1,1,1,2-Tetrachloroethane	0.625	1.25	0.625	2.5		U
1,1,1-Trichloroethane	0.400	2.50	0.400	2.5		U
1,1,2,2-Tetrachloroethane	0.400	1.25	0.400	2.5		U
1,1,2-Trichloroethane	0.625	2.50	0.625	2.5		U
1,1-Dichloroethane	0.400	2.50	0.400	2.5		U
1,1-Dichloroethene	0.625	2.50	0.625	2.5		U
1,1-Dichloropropene	0.625	2.50	0.625	2.5		U
1,2,3-Trichlorobenzene	1.25	2.50	1.25	2.5		U
1,2,3-Trichloropropane	2.50	5.00	2.50	2.5		U
1,2,4-Trichlorobenzene	1.25	2.50	1.25	2.5		U
1,2,4-Trimethylbenzene	0.400	2.50	0.400	2.5		U
1,2-Dibromo-3-chloropropane	6.25	12.5	6.25	2.5		U
1,2-Dibromoethane	0.625	2.50	0.625	2.5		U
1,2-Dichlorobenzene	0.400	2.50	0.400	2.5		U
1,2-Dichloroethane	0.625	1.25	0.625	2.5		U
1,2-Dichloropropane	0.400	2.50	0.400	2.5		U
1,3,5-Trimethylbenzene	0.400	2.50	0.400	2.5		U
1,3-Dichlorobenzene	0.400	2.50	0.400	2.5		U
1,3-Dichloropropane	0.400	1.25	0.400	2.5		U
1,4-Dichlorobenzene	0.400	1.25	0.400	2.5		U
1-Chlorohexane	0.625	2.50	0.625	2.5		U
2,2-Dichloropropane	1.25	2.50	1.25	2.5		U
2-Butanone	6.25	25.0	6.25	2.5		U
2-Chlorotoluene	0.250	2.50	0.250	2.5		U
4-Chlorotoluene	0.250	2.50	0.250	2.5		U
4-Methyl-2-pentanone	2.50	25.0	2.50	2.5		U
Acetone	6.25	25.0	6.25	2.5		U
Benzene	0.400	1.25	0.400	2.5		U
Bromobenzene	0.400	2.50	0.400	2.5		U
Bromochloromethane	0.400	2.50	0.400	2.5		U
Bromodichloromethane	0.400	1.25	0.400	2.5		U

Comments:

WT 5/21/08

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R13266
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	TF3M119R11SA	**Lab Sample ID:**	0804056-001A	**Matrix:**	Groundwater
% Solids:	0	**Initial Calibration ID:**	1221	**File ID:**	M4890.D
Date Received:	09-Apr-08	**Date Extracted:**		**Date Analyzed:**	10-Apr-08
Concentration Units (ug/L or mg/Kg dry weight):	ug/L			**Sample Size:**	25 mL

Analyte	MDL	RL	Concentration	Dilution	Comment	Qualifier
Bromoform	1.25	2.50	1.25	2.5		U
Bromomethane	0.475	7.50	0.475	2.5		U
Carbon tetrachloride	0.625	2.50	0.625	2.5		U
Chlorobenzene	0.400	1.25	0.400	2.5		U
Chloroethane	1.25	2.50	1.25	2.5		U
Chloroform	0.250	1.25	0.250	2.5		U
Chloromethane	1.25	2.50	1.25	2.5		U
cis-1,2-Dichloroethene	0.400	2.50	0.400	2.5		U
cis-1,3-Dichloropropene	0.625	1.25	0.625	2.5		U
Dibromochloromethane	0.400	1.25	0.400	2.5		U
Dibromomethane	0.400	2.50	0.400	2.5		U
Dichlorodifluoromethane	0.625	2.50	0.625	2.5		U
Ethylbenzene	0.250	2.50	0.250	2.5		U
Hexachlorobutadiene	1.25	2.50	1.25	2.5		U
Isopropylbenzene	0.400	2.50	0.400	2.5		U
Methyl tert-butyl ether	1.25	12.5	1.25	2.5		U
Methylene chloride	0.400	2.50	0.400	2.5		U
n-Butylbenzene	0.400	2.50	0.400	2.5		U
n-Propylbenzene	0.250	2.50	0.250	2.5		U
Naphthalene	1.25	2.50	1.25	2.5		U
o-Xylene	0.400	2.50	0.400	2.5		U
p-Isopropyltoluene	0.400	2.50	0.400	2.5		U
sec-Butylbenzene	0.400	2.50	0.400	2.5		U
Styrene	0.400	2.50	0.400	2.5		U
tert-Butylbenzene	0.400	2.50	0.400	2.5		U
Tetrachloroethene	0.250	2.50	0.250	2.5		U
Toluene	0.250	2.50	0.250	2.5		U
trans-1,2-Dichloroethene	0.400	2.50	0.400	2.5		U
trans-1,3-Dichloropropene	0.625	2.50	0.625	2.5		U
Trichloroethene	0.250	2.50	0.250	2.5		U
Trichlorofluoromethane	0.250	2.50	0.250	2.5		U
Vinyl chloride	1.25	2.50	1.25	2.5		U

Comments:

WK 5/21/08

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R13266
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	TF3M119R11SA	**Lab Sample ID:**	0804056-001A	**Matrix:**	Groundwater
% Solids:	0	**Initial Calibration ID:**	1221	**File ID:**	M4890.D
Date Received:	09-Apr-08	**Date Extracted:**		**Date Analyzed:**	10-Apr-08
Concentration Units (ug/L or mg/Kg dry weight):	ug/L			**Sample Size:**	25 mL

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
Xylenes (total)	0.650	5.00	0.650	2.5		U

Surrogate	Recovery	Control Limits	Qualifier
1,2-Dichloroethane-d4	106	72 - 119	
4-Bromofluorobenzene	110	76 - 119	
Toluene-d8	115	81 - 120	

Internal Std	Area Counts	Area Count Limits	Qualifier
1,4-Dichlorobenzene-d4	1542709	811362 - 3245448	
Chlorobenzene-d5	2218231	1119858 - 4479430	
Fluorobenzene	4291135	1972798 - 7891190	

cwt 5/21/08

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R13266
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	TF3M121R11SA	**Lab Sample ID:**	0804056-002A	**Matrix:**	Groundwater
% Solids:	0	**Initial Calibration ID:**	1221	**File ID:**	M4888.D
Date Received:	09-Apr-08	**Date Extracted:**		**Date Analyzed:**	10-Apr-08
Concentration Units (ug/L or mg/Kg dry weight):	ug/L			**Sample Size:**	25 mL

Analyte	MDL	PRL	Concentration	Dilution	Confirm	Qualifier
(m+p)-Xylene	0.100	2.00	0.100	1		U
1,1,1,2-Tetrachloroethane	0.250	0.500	0.250	1		U
1,1,1-Trichloroethane	0.160	1.00	0.160	1		U
1,1,2,2-Tetrachloroethane	0.160	0.500	0.160	1		U
1,1,2-Trichloroethane	0.250	1.00	0.250	1		U
1,1-Dichloroethane	0.160	1.00	0.160	1		U
1,1-Dichloroethene	0.250	1.00	0.250	1		U
1,1-Dichloropropene	0.250	1.00	0.250	1		U
1,2,3-Trichlorobenzene	0.500	1.00	0.500	1		U
1,2,3-Trichloropropane	1.00	2.00	1.00	1		U
1,2,4-Trichlorobenzene	0.500	1.00	0.500	1		U
1,2,4-Trimethylbenzene	0.160	1.00	0.160	1		U
1,2-Dibromo-3-chloropropane	2.50	5.00	2.50	1		U
1,2-Dibromoethane	0.250	1.00	0.250	1		U
1,2-Dichlorobenzene	0.160	1.00	0.160	1		U
1,2-Dichloroethane	0.250	0.500	0.250	1		U
1,2-Dichloropropane	0.160	1.00	0.160	1		U
1,3,5-Trimethylbenzene	0.160	1.00	0.160	1		U
1,3-Dichlorobenzene	0.160	1.00	0.160	1		U
1,3-Dichloropropane	0.160	0.500	0.160	1		U
1,4-Dichlorobenzene	0.160	0.500	0.160	1		U
1-Chlorohexane	0.250	1.00	0.250	1		U
2,2-Dichloropropane	0.500	1.00	0.500	1		U
2-Butanone	2.50	10.0	2.50	1		U
2-Chlorotoluene	0.100	1.00	0.100	1		U
4-Chlorotoluene	0.100	1.00	0.100	1		U
4-Methyl-2-pentanone	1.00	10.0	1.00	1		U
Acetone	2.50	10.0	2.50	1		U
Benzene	0.160	0.500	0.160	1		U
Bromobenzene	0.160	1.00	0.160	1		U
Bromochloromethane	0.160	1.00	0.160	1		U
Bromodichloromethane	0.160	0.500	0.160	1		U

Comments:

Cwk 5/21/08

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R13266
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% Solids:	0	**Initial Calibration ID:**	1221	**File ID:**	M4888.D
Date Received:	09-Apr-08	**Date Extracted:**		**Date Analyzed:**	10-Apr-08
Concentration Units (ug/L or mg/Kg dry weight):	ug/L			**Sample Size:**	25 mL

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
Bromoform	0.500	1.00	0.500	1		U
Bromomethane	0.190	3.00	0.190	1		U
Carbon tetrachloride	0.250	1.00	0.250	1		U
Chlorobenzene	0.160	0.500	0.160	1		U
Chloroethane	0.500	1.00	0.500	1		U
Chloroform	0.100	0.500	0.100	1		U
Chloromethane	0.500	1.00	0.500	1		U
cis-1,2-Dichloroethene	0.160	1.00	0.160	1		U
cis-1,3-Dichloropropene	0.250	0.500	0.250	1		U
Dibromochloromethane	0.160	0.500	0.160	1		U
Dibromomethane	0.160	1.00	0.160	1		U
Dichlorodifluoromethane	0.250	1.00	0.250	1		U
Ethylbenzene	0.100	1.00	0.100	1		U
Hexachlorobutadiene	0.500	1.00	0.500	1		U
Isopropylbenzene	0.160	1.00	0.160	1		U
Methyl tert-butyl ether	0.500	5.00	0.500	1		U
Methylene chloride	0.160	1.00	0.160	1		U
n-Butylbenzene	0.160	1.00	0.160	1		U
n-Propylbenzene	0.100	1.00	0.100	1		U
Naphthalene	0.500	1.00	0.500	1		U
o-Xylene	0.160	1.00	0.160	1		U
p-Isopropyltoluene	0.160	1.00	0.160	1		U
sec-Butylbenzene	0.160	1.00	0.160	1		U
Styrene	0.160	1.00	0.160	1		U
tert-Butylbenzene	0.160	1.00	0.160	1		U
Tetrachloroethene	0.100	1.00	0.100	1		U
Toluene	0.100	1.00	0.100	1		U
trans-1,2-Dichloroethene	0.160	1.00	0.160	1		U
trans-1,3-Dichloropropene	0.250	1.00	0.250	1		U
Trichloroethene	0.100	1.00	1.18	1		
Trichlorofluoromethane	0.100	1.00	0.100	1		U
Vinyl chloride	0.500	1.00	0.500	1		U

Comments:

CWA 5/21/08

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R13266
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Concentration Units (ug/L or mg/Kg dry weight):	ug/L			**Sample Size:**	25 mL

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
Xylenes (total)	0.260	2.00	0.260	1		U

Surrogate	Recovery	Control Limits	Qualifier
1,2-Dichloroethane-d4	110	72 - 119	
4-Bromofluorobenzene	113	76 - 119	
Toluene-d8	109	81 - 120	

CWA 5/21/08

Internal Std	Area Counts	Area Count Limits	Qualifier
1,4-Dichlorobenzene-d4	1462540	811362 - 3245448	
Chlorobenzene-d5	2206059	1119858 - 4479430	
Fluorobenzene	3913963	1972798 - 7891190	

Comments:

Life Science Laboratories, Inc.
5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Monday, April 07, 2008

Niels van Hoesel
FPM Group
153 Brooks Road
Rome, NY 13441

TEL:

Project: GRIFFISS AFB - TF 1 AND 3
RE: Analytical Result Order No.: 0803106

Dear Niels van Hoesel:

Life Science Laboratories, Inc. received 11 sample(s) on 3/21/2008 for the analyses presented in the following report.

Very truly yours,
Life Science Laboratories, Inc.

Monika Santucci

Monika Santucci
Project Manager

Laboratory Report

Project Management Case Narrative

INTRODUCTION/ANALYTICAL RESULTS

This report summarizes the laboratory results for samples from FPM, for the Griffiss AFB-TF 1 and 3- Rome, NY project.

CONDITION UPON RECEIPT/CHAIN OF CUSTODY

The cooler(s) were received intact. When the cooler(s) were received by the laboratory, the sample custodian(s) opened and inspected the shipment(s) for damage and custody inconsistencies. Chains of custody documenting receipt are presented in the chain of custody section. Each sample was assigned a unique laboratory number and a custody file created. The samples were placed in a secured walk-in cooler and signed in and out by the chemists performing the tests. The sign out record, or lab chronicle, is presented in the chain of custody section.

There were no discrepancies noted upon receipt. The temperature of the cooler was 1.8°C.

METHODOLOGY

The following methods were used to perform the analyses:

PARAMETER	METHOD	REFERENCE
Volatile Organics	SW8260B	1

1) Test Methods for Evaluating Solid Wastes, SW-846 Third Edition, Final Update III, December 1996 (including the QC requirements specified in AFCEE 4.0 + variances).

QUALITY CONTROL

QA/QC results are summarized in the Laboratory Report.

RAW DATA

The raw data is not requested for this report. Life Science Laboratories, Inc. will keep the raw data on file.

Total # of pages in this report: _____

GC/MS Volatile Organics Case Narrative - Page 1

Client:	FPM
Project/Order:	Griffiss AFB-TF 1 and 3
Work Order #:	0803106
Methodology:	8260B

Analyzed/Reviewed by (Initials/Date): JMA 4/7/08

Supervisor/Reviewed by (Initials/Date): [illegible] 4/7/08

QA/QC Review (Initials/Date): MS for LK 4/7/08

File Name: G:\Narratives\MSVoa\0803106vnar.doc

GC/MS Volatile Organics
The GC/MS Volatile instruments are equipped with a Restek Rtx-VMS, 40 m x 0.18 mm ID capillary column (MS01 & MS03), Restek Rtx-502.2, 105 m x 0.53 mm ID capillary column (MS02), and Restek Rtx-VMS, 60 m x 0.25mm ID capillary column (MS04), and a Vocarb 3000 adsorbent trap.

Holding Times and Sample Preservation
All samples were prepared and analyzed within the method and/or QAPP specified holding time requirements. Samples had a pH of < 2.

Laboratory Control Sample
All spike recoveries met method and/or project specific QC criteria.

MS/MSD/MSB
The following compound(s) did not meet matrix spike/matrix spike duplicate percent recovery and/or RPD criteria:

Sample Description	Sample #	Compound	% REC	RPD	Corrective Action
TF3M12313SA	0803106-005A	2-Butanone	X		1
		4-Methyl-2-pentanone	X		1
		Acetone	X		1

1 The recovery for this compound in the associated LCS and/or duplicate LCS was within acceptance limits. Matrix effects are suspected. The chromatogram showed evidence of a hydrocarbon/fuel pattern. No corrective action was taken.

Surrogate Standards
All surrogate standard recoveries met method and/or project specific QC criteria.

Internal Standards
All internal standard areas met method and/or project specific QC criteria.

Calibrations
All initial calibrations and calibration verifications met method and/or project specific QC criteria.

Client:	FPM
Project/Order:	Griffiss AFB-TF 1 and 3
Work Order #:	0803106
Methodology:	8260B

Preparation Blanks
All preparation blanks met method and/or project specific QC criteria.

Miscellaneous
Due to an instrument malfunction, carry-over contamination was observed in the method blank [MB-1311] that was analyzed within the 12-hour tune period. The blank was reanalyzed outside the 12-hour tune period and used for reporting.

Life Science Laboratories, Inc.

Date: *07-Apr-08*

CLIENT: FPM Group
Project: Griffiss AFB - TF 1 and 3
Lab Order: 0803106

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
0803106-001A	TF3CE312SA	MW-CE	3/20/2008	3/21/2008
0803106-002A	TF3M2113SA	TF3MW21	3/20/2008	3/21/2008
0803106-003A	TF3M11613SA	WL-TF3MW-116	3/20/2008	3/21/2008
0803106-004A	TF3M11710SA	WL-TF3MW-117	3/20/2008	3/21/2008
0803106-005A	TF3M12313SA	WL-TF3MW-123	3/20/2008	3/21/2008
0803106-006A	TF3M12313SC	WL-TF3MW-123	3/20/2008	3/21/2008
0803106-007A	TF3M12613SA	WL-TF3MW-126	3/20/2008	3/21/2008
0803106-008A	TF3M12712SA	WL-TF3MW-127	3/20/2008	3/21/2008
0803106-009A	TF3M12813SA	WL-TF3MW-128	3/20/2008	3/21/2008
0803106-010A	TF3M13315SA	WL-TF3MW-133	3/20/2008	3/21/2008
0803106-011A	TF3M13315SC	WL-TF3MW-133	3/20/2008	3/21/2008

Lab Order: 0803106
Client: FPM Group
Project: Griffiss AFB - TF 1 and 3

DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
0803106-001A	TF3CE312SA	3/20/2008 10:35:00 AM	Groundwater	Volatile Organic Compounds by GC/MS			3/24/2008
0803106-002A	TF3M2113SA	3/20/2008 11:50:00 AM		Volatile Organic Compounds by GC/MS			3/24/2008
0803106-003A	TF3M11613SA	3/20/2008 12:15:00 PM		Volatile Organic Compounds by GC/MS			3/24/2008
0803106-004A	TF3M11710SA	3/20/2008 12:40:00 PM		Volatile Organic Compounds by GC/MS			3/24/2008
0803106-005A	TF3M12313SA	3/20/2008 11:17:00 AM		Volatile Organic Compounds by GC/MS			3/28/2008
0803106-006A	TF3M12313SC			Volatile Organic Compounds by GC/MS			3/24/2008
0803106-007A	TF3M12613SA	3/20/2008 9:43:00 AM		Volatile Organic Compounds by GC/MS			3/24/2008
0803106-008A	TF3M12712SA	3/20/2008 11:10:00 AM		Volatile Organic Compounds by GC/MS			3/25/2008
0803106-009A	TF3M12813SA	3/20/2008 10:40:00 AM		Volatile Organic Compounds by GC/MS			3/24/2008
0803106-010A	TF3M13315SA	3/20/2008 10:00:00 AM		Volatile Organic Compounds by GC/MS			3/24/2008
0803106-011A	TF3M13315SC			Volatile Organic Compounds by GC/MS			3/24/2008

Chain of Custody

External Chain of Custody

AFCEE
CHAIN OF CUSTODY RECORD

COC#: _2_ SDG#: _177_ Cooler ID: _A_

Ship to: Monika Santucci Life Science Laboratories, Inc. 5000 Brittonfield Pkwy, Suite 200 East Syracuse, NY 13057 Tel: (315)437-0200	Project Name: Griffiss AFB TF 1 and 3 Sampling Sampler Name: David Forse	Send Results to: Niels van Hoesel FPM Group 153 Brooks Road Rome, NY 13441
Carrier: LSL courier.	Sampler Signature: David P Forse	Phone: (315) 336-7721 Ext. 205

Analyses Requested

Field Sample ID	Location ID (LOCID)	Date 2008	Time	MATRIX	SMCODE	SBD/SED	SACODE	Preservative	Filt./UnFilt.	No. of Containers	VOC note 1 40 mL vials (HCl)	SVOCs note 2 1 L amber	Total Alkalinity note 3 (zero headspace)	Nitrogen (Nitrate) note 4 16 oz poly	Total Sulfide Note 5 16 oz poly (ZnAC and NaOH)	Comments
TF3CE312SA	MW-CE	3/20	1035	WG	B	0/0	N	HCl	Unf.	3	3	-	-	-	-	
TF3M2113SA	TF3MW21	3/20	1150	WG	B	0/0	N	HCl	Unf.	3	3	-	-	-	-	
TF3M11613SA	WL-TF3MW-116	3/20	1215	WG	B	0/0	N	HCl	Unf.	3	3	-	-	-	-	
TF3M11710SA	WL-TF3MW-117	3/20	1240	WG	B	0/0	N	HCl	Unf.	3	3	-	-	-	-	
TF3M12313SA	WL-TF3MW-123	3/20	1117	WG	B	0/0	N	HCl	Unf.	3	3	-	-	-	-	
TF3M12313SC	WL-TF3MW-123	3/20	1117	WG	B	0/0	FD	HCl	Unf.	3	3	-	-	-	-	
TF3M12313SS	WL-TF3MW-123	3/20	1117	WG	B	0/0	MS	HCl	Unf.	3	3	-	-	-	-	
TF3M12313SD	WL-TF3MW-123	3/20	1117	WG	B	0/0	SD	HCl	Unf.	3	3	-	-	-	-	
TF3M12613SA	WL-TF3MW-126	3/20	0943	WG	B	0/0	N	HCl	Unf.	3	3	-	-	-	-	
TF3M12712SA	WL-TF3MW-127	3/20	1110	WG	B	0/0	N	HCl	Unf.	3	3	-	-	-	-	
TF3M12813SA	WL-TF3MW-128	3/20	1040	WG	B	0/0	N	HCl	Unf.	3	3	-	-	-	-	
TF3M13315SA	WL-TF3MW-133	3/20	1000	WG	B	0/0	N	HCl	Unf.	3	3	-	-	-	-	
TF3M13315SC	WL-TF3MW-133	3/20	1000	WG	B	0/0	FD	HCl	Unf.	3	3	-	-	-	-	

Sample Condition Upon Receipt at Laboratory: Cooler Temperature: 1.8°C

Special Instructions/Comments: Analyses to be conducted in compliance with AFCEE QAPP 4.0

Note 1: VOCs: SW8260, AFCEE QAPP 4.0 List.

Custody SEAL ATTACHED

Note 2: SVOCs: SW8270, AFCEE QAPP 4.0 List.
Note 3: Total Alkalinity, 310.2.
Note 4: Nitrogen: 353.2, Nitrate: Automated.
Note 5: Total Sulfide: 376.2.

#1 Released by: (Sig)	Date:	#2 Released by: (Sig)	Date: 3/20/08	#3 Released by: (Sig)	Date 3/20/08
Company Name:	Time:	Company Name: FPM Group Ltd	Time: 1700	Company Name:	Time 7:42
#1 Received by: (Sig) Niels van Hoesel	Date: 2/20/07	#2 Received by: (Sig)	Date 3/20/08	#3 Received by: (Sig)	Date 3/21/08
Company Name: FPM Group Ltd	Time: 1000	Company Name:	Time: 17 00	Company Name:	Time: 7:40

MATRIX
WG = Ground water
WQ = Water Quality Control Matrix
SO = Soil

SMCODE
B = Bailer
G = Grab (only for EB).
NA = Not Applicable (only for AB/TB)
PP = Peristaltic Pump
BP = Bladder Pump
SP = Submersible Pump
SS = Split Spoon

SACODE
N = Normal Sample
AB = Ambient Blank
TB = Trip Blank
EB = Equipment Blank
FD = Field Duplicate
MS = Matrix Spike
SD = Matrix Spike Duplicate

Life Science Laboratories, Inc.

Sample Receipt Checklist

Client Name: **FPM**

Date and Time Received: **3/21/2008 7:40:00 AM**

Work Order Number **0803106**

Received by: AC

Checklist completed by: _____ Initials 3/21/08 Date

Reviewed by: MS Initials 3/21/08 Date

Matrix: Carrier name: Courier

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☐	No ☐	Not Applicable ☑

Comments:

Corrective Action::

Client/Project FPM . Griffiss AFB - TF 1 and 3

Sample Control Record

Sample ID	Frac	Client Sample ID	Removed By	Date and Time Removed	Analysis	Date and Time Returned
0803106-001 -> 011	A		MT	3-24-08 11:00	B260	NR

Analytical Results

AFCEE
ORGANIC ANALYSES DATA PACKAGE

Analytical Method: SW8260B **AAB #:** R13058

Lab Name: Life Science Laboratories, Inc. **Contract Number:**

Base/Command: **Prime Contractor:** FPM Group

Field Sample ID	Lab Sample ID
TF3CE312SA	0803106-001A
TF3M2113SA	0803106-002A
TF3M11613SA	0803106-003A
TF3M11710SA	0803106-004A
TF3M12313SC	0803106-006A
TF3M12613SA	0803106-007A
TF3M12813SA	0803106-009A
TF3M13315SA	0803106-010A
TF3M13315SC	0803106-011A

Comments:

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager's designee, as verified by the following signature.

Signature: Monika Santucci Name: Monika Santucci

Date: 4/7/08 Title: Project Manager

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ORGANIC ANALYSES DATA PACKAGE

Analytical Method:	SW8260B	**AAB #:**	R13066
Lab Name:	Life Science Laboratories, Inc.	**Contract Number:**	
Base/Command:		**Prime Contractor:**	FPM Group

Field Sample ID	Lab Sample ID
TF3M12712SA	0803106-008A

Comments:

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager's designee, as verified by the following signature.

Signature: Monika Santucci Name: Monika Santucci

Date: 4/7/08 Title: Project Manager

AFCEE
ORGANIC ANALYSES DATA PACKAGE

Analytical Method: SW8260B

AAB #: R13111

Lab Name: Life Science Laboratories, Inc.

Contract Number:

Base/Command:

Prime Contractor: FPM Group

Field Sample ID	Lab Sample ID
TF3M12313SA	0803106-005A
TF3M12313SA	0803106-005AMS
TF3M12313SA	0803106-005AMSD

Comments:

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager's designee, as verified by the following signature.

Signature: Monika Santucci Name: Monika Santucci

Date: 4/7/08 Title: Project Manager

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R13058
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	TF3CE312SA	**Lab Sample ID:**	0803106-001A	**Matrix:**	Groundwater
% Solids:	0	**Initial Calibration ID:**	1204	**File ID:**	T1966.D
Date Received:	21-Mar-08	**Date Extracted:**		**Date Analyzed:**	24-Mar-08
Concentration Units (ug/L or mg/Kg dry weight):	µg/L			**Sample Size:**	10 mL

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
(m+p)-Xylene	0.100	2.00	0.100	1		U
1,1,1,2-Tetrachloroethane	0.250	0.500	0.250	1		U
1,1,1-Trichloroethane	0.160	1.00	0.160	1		U
1,1,2,2-Tetrachloroethane	0.160	0.500	0.160	1		U
1,1,2-Trichloroethane	0.250	1.00	0.250	1		U
1,1-Dichloroethane	0.160	1.00	0.160	1		U
1,1-Dichloroethene	0.250	1.00	0.250	1		U
1,1-Dichloropropene	0.250	1.00	0.250	1		U
1,2,3-Trichlorobenzene	0.500	1.00	0.500	1		U
1,2,3-Trichloropropane	1.00	2.00	1.00	1		U
1,2,4-Trichlorobenzene	0.500	1.00	0.500	1		U
1,2,4-Trimethylbenzene	0.160	1.00	0.160	1		U
1,2-Dibromo-3-chloropropane	2.50	5.00	2.50	1		U
1,2-Dibromoethane	0.250	1.00	0.250	1		U
1,2-Dichlorobenzene	0.160	1.00	0.160	1		U
1,2-Dichloroethane	0.250	0.500	0.250	1		U
1,2-Dichloropropane	0.160	1.00	0.160	1		U
1,3,5-Trimethylbenzene	0.160	1.00	0.160	1		U
1,3-Dichlorobenzene	0.160	1.00	0.160	1		U
1,3-Dichloropropane	0.160	0.500	0.160	1		U
1,4-Dichlorobenzene	0.160	0.500	0.160	1		U
1-Chlorohexane	0.250	1.00	0.250	1		U
2,2-Dichloropropane	0.500	1.00	0.500	1		U
2-Butanone	2.50	10.0	2.50	1		U
2-Chlorotoluene	0.100	1.00	0.100	1		U
4-Chlorotoluene	0.100	1.00	0.100	1		U
4-Methyl-2-pentanone	1.00	10.0	1.00	1		U
Acetone	2.50	10.0	2.50	1		U
Benzene	0.160	0.500	0.160	1		U
Bromobenzene	0.160	1.00	0.160	1		U
Bromochloromethane	0.160	1.00	0.160	1		U
Bromodichloromethane	0.160	0.500	0.160	1		U

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R13058
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	TF3CE312SA	**Lab Sample ID:**	0803106-001A	**Matrix:**	Groundwater
% Solids:	0	**Initial Calibration ID:**	1204	**File ID:**	T1966.D
Date Received:	21-Mar-08	**Date Extracted:**		**Date Analyzed:**	24-Mar-08
Concentration Units (ug/L or mg/Kg dry weight):	µg/L			**Sample Size:**	10 mL

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
Bromoform	0.500	1.00	0.500	1		U
Bromomethane	0.190	3.00	0.190	1		U
Carbon tetrachloride	0.250	1.00	0.250	1		U
Chlorobenzene	0.160	0.500	0.160	1		U
Chloroethane	0.500	1.00	0.500	1		U
Chloroform	0.100	0.500	0.100	1		U
Chloromethane	0.500	1.00	0.500	1		U
cis-1,2-Dichloroethene	0.160	1.00	0.160	1		U
cis-1,3-Dichloropropene	0.250	0.500	0.250	1		U
Dibromochloromethane	0.160	0.500	0.160	1		U
Dibromomethane	0.160	1.00	0.160	1		U
Dichlorodifluoromethane	0.250	1.00	0.250	1		U
Ethylbenzene	0.100	1.00	0.100	1		U
Hexachlorobutadiene	0.500	1.00	0.500	1		U
Isopropylbenzene	0.160	1.00	3.74	1		
Methyl tert-butyl ether	0.500	5.00	0.500	1		U
Methylene chloride	0.160	1.00	0.160	1		U
n-Butylbenzene	0.160	1.00	1.17	1		
n-Propylbenzene	0.100	1.00	5.38	1		
Naphthalene	0.500	1.00	0.500	1		U
o-Xylene	0.160	1.00	0.160	1		U
p-Isopropyltoluene	0.160	1.00	0.160	1		U
sec-Butylbenzene	0.160	1.00	2.70	1		
Styrene	0.160	1.00	0.160	1		U
tert-Butylbenzene	0.160	1.00	0.630	1		F
Tetrachloroethene	0.100	1.00	0.100	1		U
Toluene	0.100	1.00	0.100	1		U
trans-1,2-Dichloroethene	0.160	1.00	0.160	1		U
trans-1,3-Dichloropropene	0.250	1.00	0.250	1		U
Trichloroethene	0.100	1.00	1.15	1		
Trichlorofluoromethane	0.100	1.00	0.100	1		U
Vinyl chloride	0.500	1.00	0.500	1		U

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R13058
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	TF3CE312SA	**Lab Sample ID:**	0803106-001A	**Matrix:**	Groundwater
% Solids:	0	**Initial Calibration ID:**	1204	**File ID:**	T1966.D
Date Received:	21-Mar-08	**Date Extracted:**		**Date Analyzed:**	24-Mar-08
Concentration Units (ug/L or mg/Kg dry weight):	ug/L			**Sample Size:**	10 mL

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
Xylenes (total)	0.260	2.00	0.260	1		U

Surrogate	Recovery	Control Limits	Qualifier
1,2-Dichloroethane-d4	107	72 - 119	
4-Bromofluorobenzene	104	76 - 119	
Toluene-d8	111	81 - 120	

Internal Std	Area Counts	Area Count Limits	Qualifier
1,4-Dichlorobenzene-d4	713025	306228 - 1224912	
Chlorobenzene-d5	814046	370666 - 1482666	
Fluorobenzene	1826780	849584 - 3398336	

Comments:

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ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R13058
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	TF3M2113SA	**Lab Sample ID:**	0803106-002A	**Matrix:**	Groundwater
% Solids:	0	**Initial Calibration ID:**	1204	**File ID:**	T1967.D
Date Received:	21-Mar-08	**Date Extracted:**		**Date Analyzed:**	24-Mar-08
Concentration Units (ug/L or mg/Kg dry weight):	µg/L			**Sample Size:**	10 mL

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
(m+p)-Xylene	0.200	4.00	0.200	2		U
1,1,1,2-Tetrachloroethane	0.500	1.00	0.500	2		U
1,1,1-Trichloroethane	0.320	2.00	0.320	2		U
1,1,2,2-Tetrachloroethane	0.320	1.00	0.320	2		U
1,1,2-Trichloroethane	0.500	2.00	0.500	2		U
1,1-Dichloroethane	0.320	2.00	0.320	2		U
1,1-Dichloroethene	0.500	2.00	0.500	2		U
1,1-Dichloropropene	0.500	2.00	0.500	2		U
1,2,3-Trichlorobenzene	1.00	2.00	1.00	2		U
1,2,3-Trichloropropane	2.00	4.00	2.00	2		U
1,2,4-Trichlorobenzene	1.00	2.00	1.00	2		U
1,2,4-Trimethylbenzene	0.320	2.00	0.320	2		U
1,2-Dibromo-3-chloropropane	5.00	10.0	5.00	2		U
1,2-Dibromoethane	0.500	2.00	0.500	2		U
1,2-Dichlorobenzene	0.320	2.00	0.320	2		U
1,2-Dichloroethane	0.500	1.00	0.500	2		U
1,2-Dichloropropane	0.320	2.00	0.320	2		U
1,3,5-Trimethylbenzene	0.320	2.00	0.320	2		U
1,3-Dichlorobenzene	0.320	2.00	0.320	2		U
1,3-Dichloropropane	0.320	1.00	0.320	2		U
1,4-Dichlorobenzene	0.320	1.00	0.320	2		U
1-Chlorohexane	0.500	2.00	0.500	2		U
2,2-Dichloropropane	1.00	2.00	1.00	2		U
2-Butanone	5.00	20.0	5.00	2		U
2-Chlorotoluene	0.200	2.00	0.200	2		U
4-Chlorotoluene	0.200	2.00	0.200	2		U
4-Methyl-2-pentanone	2.00	20.0	2.00	2		U
Acetone	5.00	20.0	5.00	2		U
Benzene	0.320	1.00	0.320	2		U
Bromobenzene	0.320	2.00	0.320	2		U
Bromochloromethane	0.320	2.00	0.320	2		U
Bromodichloromethane	0.320	1.00	0.320	2		U

Comments:

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ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R13058
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	TF3M2113SA	**Lab Sample ID:**	0803106-002A	**Matrix:**	Groundwater
% Solids:	0	**Initial Calibration ID:**	1204	**File ID:**	T1967.D
Date Received:	21-Mar-08	**Date Extracted:**		**Date Analyzed:**	24-Mar-08
Concentration Units (ug/L or mg/Kg dry weight):	ug/L			**Sample Size:**	10 mL

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
Bromoform	1.00	2.00	1.00	2		U
Bromomethane	0.380	6.00	0.380	2		U
Carbon tetrachloride	0.500	2.00	0.500	2		U
Chlorobenzene	0.320	1.00	0.320	2		U
Chloroethane	1.00	2.00	1.00	2		U
Chloroform	0.200	1.00	0.200	2		U
Chloromethane	1.00	2.00	1.00	2		U
cis-1,2-Dichloroethene	0.320	2.00	0.320	2		U
cis-1,3-Dichloropropene	0.500	1.00	0.500	2		U
Dibromochloromethane	0.320	1.00	0.320	2		U
Dibromomethane	0.320	2.00	0.320	2		U
Dichlorodifluoromethane	0.500	2.00	0.500	2		U
Ethylbenzene	0.200	2.00	0.200	2		U
Hexachlorobutadiene	1.00	2.00	1.00	2		U
Isopropylbenzene	0.320	2.00	13.2	2		
Methyl tert-butyl ether	1.00	10.0	1.00	2		U
Methylene chloride	0.320	2.00	0.320	2		U
n-Butylbenzene	0.320	2.00	1.26	2		F
n-Propylbenzene	0.200	2.00	2.52	2		
Naphthalene	1.00	2.00	1.00	2		U
o-Xylene	0.320	2.00	0.320	2		U
p-Isopropyltoluene	0.320	2.00	1.04	2		F
sec-Butylbenzene	0.320	2.00	1.24	2		F
Styrene	0.320	2.00	0.320	2		U
tert-Butylbenzene	0.320	2.00	0.680	2		F
Tetrachloroethene	0.200	2.00	0.200	2		U
Toluene	0.200	2.00	0.200	2		U
trans-1,2-Dichloroethene	0.320	2.00	0.320	2		U
trans-1,3-Dichloropropene	0.500	2.00	0.500	2		U
Trichloroethene	0.200	2.00	0.200	2		U
Trichlorofluoromethane	0.200	2.00	0.200	2		U
Vinyl chloride	1.00	2.00	1.00	2		U

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R13058
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	TF3M2113SA	**Lab Sample ID:**	0803106-002A	**Matrix:**	Groundwater
% Solids:	0	**Initial Calibration ID:**	1204	**File ID:**	T1967.D
Date Received:	21-Mar-08	**Date Extracted:**		**Date Analyzed:**	24-Mar-08
Concentration Units (ug/L or mg/Kg dry weight):	µg/L			**Sample Size:**	10 mL

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
Xylenes (total)	0.520	4.00	0.520	2		U

Surrogate	Recovery	Control Limits	Qualifier
1,2-Dichloroethane-d4	106	72 - 119	
4-Bromofluorobenzene	102	76 - 119	
Toluene-d8	103	81 - 120	

Internal Std	Area Counts	Area Count Limits	Qualifier
1,4-Dichlorobenzene-d4	709856	306228 - 1224912	
Chlorobenzene-d5	815938	370666 - 1482666	
Fluorobenzene	1875739	849584 - 3398336	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R13058
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	TF3M11613SA	**Lab Sample ID:**	0803106-003A	**Matrix:**	Groundwater
% Solids:	0	**Initial Calibration ID:**	1204	**File ID:**	T1968.D
Date Received:	21-Mar-08	**Date Extracted:**		**Date Analyzed:**	24-Mar-08
Concentration Units (ug/L or mg/Kg dry weight):	µg/L			**Sample Size:**	10 mL

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
(m+p)-Xylene	0.100	2.00	0.100	1		U
1,1,1,2-Tetrachloroethane	0.250	0.500	0.250	1		U
1,1,1-Trichloroethane	0.160	1.00	0.160	1		U
1,1,2,2-Tetrachloroethane	0.160	0.500	0.160	1		U
1,1,2-Trichloroethane	0.250	1.00	0.250	1		U
1,1-Dichloroethane	0.160	1.00	0.160	1		U
1,1-Dichloroethene	0.250	1.00	0.250	1		U
1,1-Dichloropropene	0.250	1.00	0.250	1		U
1,2,3-Trichlorobenzene	0.500	1.00	0.500	1		U
1,2,3-Trichloropropane	1.00	2.00	1.00	1		U
1,2,4-Trichlorobenzene	0.500	1.00	0.500	1		U
1,2,4-Trimethylbenzene	0.160	1.00	0.160	1		U
1,2-Dibromo-3-chloropropane	2.50	5.00	2.50	1		U
1,2-Dibromoethane	0.250	1.00	0.250	1		U
1,2-Dichlorobenzene	0.160	1.00	0.160	1		U
1,2-Dichloroethane	0.250	0.500	0.250	1		U
1,2-Dichloropropane	0.160	1.00	0.160	1		U
1,3,5-Trimethylbenzene	0.160	1.00	0.160	1		U
1,3-Dichlorobenzene	0.160	1.00	0.160	1		U
1,3-Dichloropropane	0.160	0.500	0.160	1		U
1,4-Dichlorobenzene	0.160	0.500	0.160	1		U
1-Chlorohexane	0.250	1.00	0.250	1		U
2,2-Dichloropropane	0.500	1.00	0.500	1		U
2-Butanone	2.50	10.0	2.50	1		U
2-Chlorotoluene	0.100	1.00	0.100	1		U
4-Chlorotoluene	0.100	1.00	0.100	1		U
4-Methyl-2-pentanone	1.00	10.0	1.00	1		U
Acetone	2.50	10.0	2.50	1		U
Benzene	0.160	0.500	0.160	1		U
Bromobenzene	0.160	1.00	0.160	1		U
Bromochloromethane	0.160	1.00	0.160	1		U
Bromodichloromethane	0.160	0.500	0.160	1		U

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R13058
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	TF3M11613SA	**Lab Sample ID:**	0803106-003A	**Matrix:**	Groundwater
% Solids:	0	**Initial Calibration ID:**	1204	**File ID:**	T1968.D
Date Received:	21-Mar-08	**Date Extracted:**		**Date Analyzed:**	24-Mar-08
Concentration Units (ug/L or mg/Kg dry weight):	ug/L			**Sample Size:**	10 mL

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
Bromoform	0.500	1.00	0.500	1		U
Bromomethane	0.190	3.00	0.190	1		U
Carbon tetrachloride	0.250	1.00	0.250	1		U
Chlorobenzene	0.160	0.500	0.160	1		U
Chloroethane	0.500	1.00	0.500	1		U
Chloroform	0.100	0.500	0.100	1		U
Chloromethane	0.500	1.00	0.500	1		U
cis-1,2-Dichloroethene	0.160	1.00	0.160	1		U
cis-1,3-Dichloropropene	0.250	0.500	0.250	1		U
Dibromochloromethane	0.160	0.500	0.160	1		U
Dibromomethane	0.160	1.00	0.160	1		U
Dichlorodifluoromethane	0.250	1.00	0.250	1		U
Ethylbenzene	0.100	1.00	0.100	1		U
Hexachlorobutadiene	0.500	1.00	0.500	1		U
Isopropylbenzene	0.160	1.00	10.7	1		
Methyl tert-butyl ether	0.500	5.00	0.500	1		U
Methylene chloride	0.160	1.00	0.160	1		U
n-Butylbenzene	0.160	1.00	1.59	1		
n-Propylbenzene	0.100	1.00	8.17	1		
Naphthalene	0.500	1.00	0.500	1		U
o-Xylene	0.160	1.00	0.160	1		U
p-Isopropyltoluene	0.160	1.00	0.160	1		U
sec-Butylbenzene	0.160	1.00	7.79	1		
Styrene	0.160	1.00	0.160	1		U
tert-Butylbenzene	0.160	1.00	2.03	1		
Tetrachloroethene	0.100	1.00	0.100	1		U
Toluene	0.100	1.00	0.100	1		U
trans-1,2-Dichloroethene	0.160	1.00	0.160	1		U
trans-1,3-Dichloropropene	0.250	1.00	0.250	1		U
Trichloroethene	0.100	1.00	0.100	1		U
Trichlorofluoromethane	0.100	1.00	0.100	1		U
Vinyl chloride	0.500	1.00	0.500	1		U

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R13058
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	TF3M11613SA	**Lab Sample ID:**	0803106-003A	**Matrix:**	Groundwater
% Solids:	0	**Initial Calibration ID:**	1204	**File ID:**	T1968.D
Date Received:	21-Mar-08	**Date Extracted:**		**Date Analyzed:**	24-Mar-08
Concentration Units (ug/L or mg/Kg dry weight):	ug/L			**Sample Size:**	10 mL

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
Xylenes (total)	0.260	2.00	0.260	1		U

Surrogate	Recovery	Control Limits	Qualifier
1,2-Dichloroethane-d4	106	72 - 119	
4-Bromofluorobenzene	99	76 - 119	
Toluene-d8	116	81 - 120	

Internal Std	Area Counts	Area Count Limits	Qualifier
1,4-Dichlorobenzene-d4	722132	306228 - 1224912	
Chlorobenzene-d5	859847	370666 - 1482666	
Fluorobenzene	1890124	849584 - 3398336	

Comments:

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ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R13058
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	TF3M11710SA	**Lab Sample ID:**	0803106-004A	**Matrix:**	Groundwater
% Solids:	0	**Initial Calibration ID:**	1204	**File ID:**	T1969.D
Date Received:	21-Mar-08	**Date Extracted:**		**Date Analyzed:**	24-Mar-08
Concentration Units (ug/L or mg/Kg dry weight):	ug/L			**Sample Size:**	10 mL

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
(m+p)-Xylene	0.100	2.00	0.100	1		U
1,1,1,2-Tetrachloroethane	0.250	0.500	0.250	1		U
1,1,1-Trichloroethane	0.160	1.00	0.160	1		U
1,1,2,2-Tetrachloroethane	0.160	0.500	0.160	1		U
1,1,2-Trichloroethane	0.250	1.00	0.250	1		U
1,1-Dichloroethane	0.160	1.00	0.160	1		U
1,1-Dichloroethene	0.250	1.00	0.250	1		U
1,1-Dichloropropene	0.250	1.00	0.250	1		U
1,2,3-Trichlorobenzene	0.500	1.00	0.500	1		U
1,2,3-Trichloropropane	1.00	2.00	1.00	1		U
1,2,4-Trichlorobenzene	0.500	1.00	0.500	1		U
1,2,4-Trimethylbenzene	0.160	1.00	0.160	1		U
1,2-Dibromo-3-chloropropane	2.50	5.00	2.50	1		U
1,2-Dibromoethane	0.250	1.00	0.250	1		U
1,2-Dichlorobenzene	0.160	1.00	0.160	1		U
1,2-Dichloroethane	0.250	0.500	0.250	1		U
1,2-Dichloropropane	0.160	1.00	0.160	1		U
1,3,5-Trimethylbenzene	0.160	1.00	0.160	1		U
1,3-Dichlorobenzene	0.160	1.00	0.160	1		U
1,3-Dichloropropane	0.160	0.500	0.160	1		U
1,4-Dichlorobenzene	0.160	0.500	0.160	1		U
1-Chlorohexane	0.250	1.00	0.250	1		U
2,2-Dichloropropane	0.500	1.00	0.500	1		U
2-Butanone	2.50	10.0	2.50	1		U
2-Chlorotoluene	0.100	1.00	0.100	1		U
4-Chlorotoluene	0.100	1.00	0.100	1		U
4-Methyl-2-pentanone	1.00	10.0	1.00	1		U
Acetone	2.50	10.0	2.50	1		U
Benzene	0.160	0.500	0.160	1		U
Bromobenzene	0.160	1.00	0.160	1		U
Bromochloromethane	0.160	1.00	0.160	1		U
Bromodichloromethane	0.160	0.500	0.160	1		U

Comments:

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ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R13058
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	TF3M11710SA	**Lab Sample ID:**	0803106-004A	**Matrix:**	Groundwater
% Solids:	0	**Initial Calibration ID:**	1204	**File ID:**	T1969.D
Date Received:	21-Mar-08	**Date Extracted:**		**Date Analyzed:**	24-Mar-08
Concentration Units (ug/L or mg/Kg dry weight):	ug/L			**Sample Size:**	10 mL

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
Bromoform	0.500	1.00	0.500	1		U
Bromomethane	0.190	3.00	0.190	1		U
Carbon tetrachloride	0.250	1.00	0.250	1		U
Chlorobenzene	0.160	0.500	0.160	1		U
Chloroethane	0.500	1.00	0.500	1		U
Chloroform	0.100	0.500	0.100	1		U
Chloromethane	0.500	1.00	0.500	1		U
cis-1,2-Dichloroethene	0.160	1.00	0.190	1		F
cis-1,3-Dichloropropene	0.250	0.500	0.250	1		U
Dibromochloromethane	0.160	0.500	0.160	1		U
Dibromomethane	0.160	1.00	0.160	1		U
Dichlorodifluoromethane	0.250	1.00	0.250	1		U
Ethylbenzene	0.100	1.00	0.100	1		U
Hexachlorobutadiene	0.500	1.00	0.500	1		U
Isopropylbenzene	0.160	1.00	0.780	1		F
Methyl tert-butyl ether	0.500	5.00	0.500	1		U
Methylene chloride	0.160	1.00	0.160	1		U
n-Butylbenzene	0.160	1.00	0.160	1		U
n-Propylbenzene	0.100	1.00	0.100	1		U
Naphthalene	0.500	1.00	0.500	1		U
o-Xylene	0.160	1.00	0.160	1		U
p-Isopropyltoluene	0.160	1.00	0.160	1		U
sec-Butylbenzene	0.160	1.00	0.160	1		U
Styrene	0.160	1.00	0.160	1		U
tert-Butylbenzene	0.160	1.00	1.72	1		
Tetrachloroethene	0.100	1.00	0.100	1		U
Toluene	0.100	1.00	0.100	1		U
trans-1,2-Dichloroethene	0.160	1.00	0.160	1		U
trans-1,3-Dichloropropene	0.250	1.00	0.250	1		U
Trichloroethene	0.100	1.00	0.100	1		U
Trichlorofluoromethane	0.100	1.00	0.100	1		U
Vinyl chloride	0.500	1.00	0.500	1		U

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R13058
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	TF3M11710SA	**Lab Sample ID:**	0803106-004A	**Matrix:**	Groundwater
% Solids:	0	**Initial Calibration ID:**	1204	**File ID:**	T1969.D
Date Received:	21-Mar-08	**Date Extracted:**		**Date Analyzed:**	24-Mar-08
Concentration Units (ug/L or mg/Kg dry weight):	ug/L			**Sample Size:**	10 mL

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
Xylenes (total)	0.260	2.00	0.260	1		U

Surrogate	Recovery	Control Limits	Qualifier
1,2-Dichloroethane-d4	102	72 - 119	
4-Bromofluorobenzene	100	76 - 119	
Toluene-d8	113	81 - 120	

Internal Std	Area Counts	Area Count Limits	Qualifier
1,4-Dichlorobenzene-d4	735795	306228 - 1224912	
Chlorobenzene-d5	873886	370666 - 1482666	
Fluorobenzene	1939391	849584 - 3398336	

Comments:

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ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R13111
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	TF3M12313SA	**Lab Sample ID:**	0803106-005A	**Matrix:**	Groundwater
% Solids:	0	**Initial Calibration ID:**	1212	**File ID:**	M4730.D
Date Received:	21-Mar-08	**Date Extracted:**		**Date Analyzed:**	28-Mar-08
Concentration Units (ug/L or mg/Kg dry weight):	µg/L			**Sample Size:**	25 mL

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
(m+p)-Xylene	0.200	4.00	0.200	2		U
1,1,1,2-Tetrachloroethane	0.500	1.00	0.500	2		U
1,1,1-Trichloroethane	0.320	2.00	0.320	2		U
1,1,2,2-Tetrachloroethane	0.320	1.00	0.320	2		U
1,1,2-Trichloroethane	0.500	2.00	0.500	2		U
1,1-Dichloroethane	0.320	2.00	0.320	2		U
1,1-Dichloroethene	0.500	2.00	0.500	2		U
1,1-Dichloropropene	0.500	2.00	0.500	2		U
1,2,3-Trichlorobenzene	1.00	2.00	1.00	2		U
1,2,3-Trichloropropane	2.00	4.00	2.00	2		U
1,2,4-Trichlorobenzene	1.00	2.00	1.00	2		U
1,2,4-Trimethylbenzene	0.320	2.00	11.4	2		
1,2-Dibromo-3-chloropropane	5.00	10.0	5.00	2		U
1,2-Dibromoethane	0.500	2.00	0.500	2		U
1,2-Dichlorobenzene	0.320	2.00	0.320	2		U
1,2-Dichloroethane	0.500	1.00	0.500	2		U
1,2-Dichloropropane	0.320	2.00	0.320	2		U
1,3,5-Trimethylbenzene	0.320	2.00	2.94	2		
1,3-Dichlorobenzene	0.320	2.00	0.320	2		U
1,3-Dichloropropane	0.320	1.00	0.320	2		U
1,4-Dichlorobenzene	0.320	1.00	0.320	2		U
1-Chlorohexane	0.500	2.00	0.500	2		U
2,2-Dichloropropane	1.00	2.00	1.00	2		U
2-Butanone	5.00	20.0	5.00	2		UM
2-Chlorotoluene	0.200	2.00	0.200	2		U
4-Chlorotoluene	0.200	2.00	0.200	2		U
4-Methyl-2-pentanone	2.00	20.0	2.00	2		UM
Acetone	5.00	20.0	5.00	2		UM
Benzene	0.320	1.00	0.320	2		U
Bromobenzene	0.320	2.00	0.320	2		U
Bromochloromethane	0.320	2.00	0.320	2		U
Bromodichloromethane	0.320	1.00	0.320	2		U

Comments:

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ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R13111
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	TF3M12313SA	**Lab Sample ID:**	0803106-005A	**Matrix:**	Groundwater
% Solids:	0	**Initial Calibration ID:**	1212	**File ID:**	M4730.D
Date Received:	21-Mar-08	**Date Extracted:**		**Date Analyzed:**	28-Mar-08
Concentration Units (ug/L or mg/Kg dry weight):	µg/L			**Sample Size:**	25 mL

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
Bromoform	1.00	2.00	1.00	2		U
Bromomethane	0.380	6.00	0.380	2		U
Carbon tetrachloride	0.500	2.00	0.500	2		U
Chlorobenzene	0.320	1.00	0.320	2		U
Chloroethane	1.00	2.00	1.00	2		U
Chloroform	0.200	1.00	0.200	2		U
Chloromethane	1.00	2.00	1.00	2		U
cis-1,2-Dichloroethene	0.320	2.00	0.320	2		U
cis-1,3-Dichloropropene	0.500	1.00	0.500	2		U
Dibromochloromethane	0.320	1.00	0.320	2		U
Dibromomethane	0.320	2.00	0.320	2		U
Dichlorodifluoromethane	0.500	2.00	0.500	2		U
Ethylbenzene	0.200	2.00	0.200	2		U
Hexachlorobutadiene	1.00	2.00	1.00	2		U
Isopropylbenzene	0.320	2.00	63.9	2		
Methyl tert-butyl ether	1.00	10.0	1.00	2		U
Methylene chloride	0.320	2.00	0.320	2		U
n-Butylbenzene	0.320	2.00	2.20	2		
n-Propylbenzene	0.200	2.00	7.22	2		
Naphthalene	1.00	2.00	1.00	2		U
o-Xylene	0.320	2.00	0.320	2		U
p-Isopropyltoluene	0.320	2.00	1.92	2		F
sec-Butylbenzene	0.320	2.00	1.84	2		F
Styrene	0.320	2.00	0.320	2		U
tert-Butylbenzene	0.320	2.00	0.320	2		U
Tetrachloroethene	0.200	2.00	0.200	2		U
Toluene	0.200	2.00	0.200	2		U
trans-1,2-Dichloroethene	0.320	2.00	0.320	2		U
trans-1,3-Dichloropropene	0.500	2.00	0.500	2		U
Trichloroethene	0.200	2.00	0.200	2		U
Trichlorofluoromethane	0.200	2.00	0.200	2		U
Vinyl chloride	1.00	2.00	1.00	2		U

Comments:

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ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R13111
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	TF3M12313SA	**Lab Sample ID:**	0803106-005A	**Matrix:**	Groundwater
% Solids:	0	**Initial Calibration ID:**	1212	**File ID:**	M4730.D
Date Received:	21-Mar-08	**Date Extracted:**		**Date Analyzed:**	28-Mar-08
Concentration Units (ug/L or mg/Kg dry weight):	ug/L			**Sample Size:**	25 mL

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
Xylenes (total)	0.520	4.00	0.520	2		U

Surrogate	Recovery	Control Limits	Qualifier
1,2-Dichloroethane-d4	115	72 - 119	
4-Bromofluorobenzene	116	76 - 119	
Toluene-d8	115	81 - 120	

Internal Std	Area Counts	Area Count Limits	Qualifier
1,4-Dichlorobenzene-d4	1917740	992054 - 3968218	
Chlorobenzene-d5	2981066	1470392 - 5881570	
Fluorobenzene	5863087	2867034 - 11468136	

Comments:

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ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R13111
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	TF3M12313SA	**Lab Sample ID:**	0803106-005AMS	**Matrix:**	Aqueous
% Solids:	0	**Initial Calibration ID:**	1212	**File ID:**	M4726.D
Date Received:	21-Mar-08	**Date Extracted:**		**Date Analyzed:**	28-Mar-08
Concentration Units (ug/L or mg/Kg dry weight):	ug/L			**Sample Size:**	25 mL

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
(m+p)-Xylene	0.200	4.00	41.6	2		
1,1,1,2-Tetrachloroethane	0.500	1.00	21.3	2		
1,1,1-Trichloroethane	0.320	2.00	19.3	2		
1,1,2,2-Tetrachloroethane	0.320	1.00	21.4	2		
1,1,2-Trichloroethane	0.500	2.00	23.8	2		
1,1-Dichloroethane	0.320	2.00	22.2	2		
1,1-Dichloroethene	0.500	2.00	23.5	2		
1,1-Dichloropropene	0.500	2.00	19.6	2		
1,2,3-Trichlorobenzene	1.00	2.00	20.1	2		
1,2,3-Trichloropropane	2.00	4.00	18.8	2		
1,2,4-Trichlorobenzene	1.00	2.00	20.3	2		
1,2,4-Trimethylbenzene	0.320	2.00	31.2	2		
1,2-Dibromo-3-chloropropane	5.00	10.0	21.4	2		
1,2-Dibromoethane	0.500	2.00	21.9	2		
1,2-Dichlorobenzene	0.320	2.00	21.1	2		
1,2-Dichloroethane	0.500	1.00	21.5	2		
1,2-Dichloropropane	0.320	2.00	21.6	2		
1,3,5-Trimethylbenzene	0.320	2.00	26.2	2		
1,3-Dichlorobenzene	0.320	2.00	21.8	2		
1,3-Dichloropropane	0.320	1.00	21.4	2		
1,4-Dichlorobenzene	0.320	1.00	21.2	2		
1-Chlorohexane	0.500	2.00	20.2	2		
2,2-Dichloropropane	1.00	2.00	20.0	2		
2-Butanone	5.00	20.0	86.9	2		M
2-Chlorotoluene	0.200	2.00	20.6	2		
4-Chlorotoluene	0.200	2.00	23.2	2		
4-Methyl-2-pentanone	2.00	20.0	61.7	2		M
Acetone	5.00	20.0	90.1	2		M
Benzene	0.320	1.00	22.1	2		
Bromobenzene	0.320	2.00	20.3	2		
Bromochloromethane	0.320	2.00	20.5	2		
Bromodichloromethane	0.320	1.00	21.3	2		

Comments:

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ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R13111
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	TF3M12313SA	**Lab Sample ID:**	0803106-005AMS	**Matrix:**	Aqueous
% Solids:	0	**Initial Calibration ID:**	1212	**File ID:**	M4726.D
Date Received:	21-Mar-08	**Date Extracted:**		**Date Analyzed:**	28-Mar-08
Concentration Units (ug/L or mg/Kg dry weight):	µg/L			**Sample Size:**	25 mL

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
Bromoform	1.00	2.00	18.8	2		
Bromomethane	0.380	6.00	16.9	2		
Carbon tetrachloride	0.500	2.00	19.5	2		
Chlorobenzene	0.320	1.00	21.4	2		
Chloroethane	1.00	2.00	17.8	2		
Chloroform	0.200	1.00	21.2	2		
Chloromethane	1.00	2.00	20.6	2		
cis-1,2-Dichloroethene	0.320	2.00	23.2	2		
cis-1,3-Dichloropropene	0.500	1.00	22.3	2		
Dibromochloromethane	0.320	1.00	22.1	2		
Dibromomethane	0.320	2.00	20.1	2		
Dichlorodifluoromethane	0.500	2.00	20.4	2		
Ethylbenzene	0.200	2.00	22.5	2		
Hexachlorobutadiene	1.00	2.00	22.2	2		
Isopropylbenzene	0.320	2.00	84.7	2		J
Methyl tert-butyl ether	1.00	10.0	22.6	2		
Methylene chloride	0.320	2.00	21.7	2		
n-Butylbenzene	0.320	2.00	21.0	2		
n-Propylbenzene	0.200	2.00	30.5	2		
Naphthalene	1.00	2.00	25.0	2		
o-Xylene	0.320	2.00	20.9	2		
p-Isopropyltoluene	0.320	2.00	21.4	2		
sec-Butylbenzene	0.320	2.00	22.2	2		
Styrene	0.320	2.00	19.3	2		
tert-Butylbenzene	0.320	2.00	22.7	2		
Tetrachloroethene	0.200	2.00	21.8	2		
Toluene	0.200	2.00	22.7	2		
trans-1,2-Dichloroethene	0.320	2.00	20.7	2		
trans-1,3-Dichloropropene	0.500	2.00	20.3	2		
Trichloroethene	0.200	2.00	21.6	2		
Trichlorofluoromethane	0.200	2.00	20.7	2		
Vinyl chloride	1.00	2.00	20.2	2		

Comments:

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ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R13111
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	TF3M12313SA	**Lab Sample ID:**	0803106-005AMS	**Matrix:**	Aqueous
% Solids:	0	**Initial Calibration ID:**	1212	**File ID:**	M4726.D
Date Received:	21-Mar-08	**Date Extracted:**		**Date Analyzed:**	28-Mar-08
Concentration Units (ug/L or mg/Kg dry weight):	µg/L			**Sample Size:**	25 mL

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
Xylenes (total)	0.520	4.00	62.5	2		

Surrogate	Recovery	Control Limits	Qualifier
1,2-Dichloroethane-d4	108	72 - 119	
4-Bromofluorobenzene	106	76 - 119	
Toluene-d8	112	81 - 120	

Internal Std	Area Counts	Area Count Limits	Qualifier
1,4-Dichlorobenzene-d4	1909951	992054 - 3968218	
Chlorobenzene-d5	2776834	1470392 - 5881570	
Fluorobenzene	5274990	2867034 - 11468136	

Comments:

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ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R13111
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	TF3M12313SA	**Lab Sample ID:**	0803106-005AMSD	**Matrix:**	Aqueous
% Solids:	0	**Initial Calibration ID:**	1212	**File ID:**	M4727.D
Date Received:	21-Mar-08	**Date Extracted:**		**Date Analyzed:**	28-Mar-08
Concentration Units (ug/L or mg/Kg dry weight):		µg/L		**Sample Size:**	25 mL

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
(m+p)-Xylene	0.200	4.00	43.2	2		
1,1,1,2-Tetrachloroethane	0.500	1.00	22.2	2		
1,1,1-Trichloroethane	0.320	2.00	19.9	2		
1,1,2,2-Tetrachloroethane	0.320	1.00	22.9	2		
1,1,2-Trichloroethane	0.500	2.00	24.2	2		
1,1-Dichloroethane	0.320	2.00	23.0	2		
1,1-Dichloroethene	0.500	2.00	24.9	2		
1,1-Dichloropropene	0.500	2.00	20.2	2		
1,2,3-Trichlorobenzene	1.00	2.00	20.1	2		
1,2,3-Trichloropropane	2.00	4.00	17.5	2		
1,2,4-Trichlorobenzene	1.00	2.00	21.3	2		
1,2,4-Trimethylbenzene	0.320	2.00	32.6	2		
1,2-Dibromo-3-chloropropane	5.00	10.0	22.6	2		
1,2-Dibromoethane	0.500	2.00	22.5	2		
1,2-Dichlorobenzene	0.320	2.00	22.2	2		
1,2-Dichloroethane	0.500	1.00	22.4	2		
1,2-Dichloropropane	0.320	2.00	22.5	2		
1,3,5-Trimethylbenzene	0.320	2.00	27.2	2		
1,3-Dichlorobenzene	0.320	2.00	23.0	2		
1,3-Dichloropropane	0.320	1.00	22.0	2		
1,4-Dichlorobenzene	0.320	1.00	22.2	2		
1-Chlorohexane	0.500	2.00	20.2	2		
2,2-Dichloropropane	1.00	2.00	20.5	2		
2-Butanone	5.00	20.0	96.0	2		M
2-Chlorotoluene	0.200	2.00	23.3	2		
4-Chlorotoluene	0.200	2.00	22.9	2		
4-Methyl-2-pentanone	2.00	20.0	62.5	2		M
Acetone	5.00	20.0	88.7	2		M
Benzene	0.320	1.00	23.0	2		
Bromobenzene	0.320	2.00	21.4	2		
Bromochloromethane	0.320	2.00	21.2	2		
Bromodichloromethane	0.320	1.00	22.0	2		

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R13111
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	TF3M12313SA	**Lab Sample ID:**	0803106-005AMSD	**Matrix:**	Aqueous
% Solids:	0	**Initial Calibration ID:**	1212	**File ID:**	M4727.D
Date Received:	21-Mar-08	**Date Extracted:**		**Date Analyzed:**	28-Mar-08
Concentration Units (ug/L or mg/Kg dry weight):	µg/L			**Sample Size:**	25 mL

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
Bromoform	1.00	2.00	19.5	2		
Bromomethane	0.380	6.00	16.4	2		
Carbon tetrachloride	0.500	2.00	20.1	2		
Chlorobenzene	0.320	1.00	22.0	2		
Chloroethane	1.00	2.00	17.3	2		
Chloroform	0.200	1.00	22.1	2		
Chloromethane	1.00	2.00	19.4	2		
cis-1,2-Dichloroethene	0.320	2.00	23.9	2		
cis-1,3-Dichloropropene	0.500	1.00	22.2	2		
Dibromochloromethane	0.320	1.00	22.2	2		
Dibromomethane	0.320	2.00	20.6	2		
Dichlorodifluoromethane	0.500	2.00	19.4	2		
Ethylbenzene	0.200	2.00	23.5	2		
Hexachlorobutadiene	1.00	2.00	22.8	2		
Isopropylbenzene	0.320	2.00	85.0	2		J
Methyl tert-butyl ether	1.00	10.0	23.8	2		
Methylene chloride	0.320	2.00	23.0	2		
n-Butylbenzene	0.320	2.00	22.5	2		
n-Propylbenzene	0.200	2.00	31.8	2		
Naphthalene	1.00	2.00	25.5	2		
o-Xylene	0.320	2.00	21.7	2		
p-Isopropyltoluene	0.320	2.00	22.1	2		
sec-Butylbenzene	0.320	2.00	23.0	2		
Styrene	0.320	2.00	19.9	2		
tert-Butylbenzene	0.320	2.00	23.8	2		
Tetrachloroethene	0.200	2.00	21.9	2		
Toluene	0.200	2.00	22.6	2		
trans-1,2-Dichloroethene	0.320	2.00	20.8	2		
trans-1,3-Dichloropropene	0.500	2.00	20.2	2		
Trichloroethene	0.200	2.00	22.2	2		
Trichlorofluoromethane	0.200	2.00	20.1	2		
Vinyl chloride	1.00	2.00	19.9	2		

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R13111
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	TF3M12313SA	**Lab Sample ID:**	0803106-005AMSD	**Matrix:**	Aqueous
% Solids:	0	**Initial Calibration ID:**	1212	**File ID:**	M4727.D
Date Received:	21-Mar-08	**Date Extracted:**		**Date Analyzed:**	28-Mar-08
Concentration Units (ug/L or mg/Kg dry weight):	µg/L			**Sample Size:**	25 mL

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
Xylenes (total)	0.520	4.00	64.9	2		

Surrogate	Recovery	Control Limits	Qualifier
1,2-Dichloroethane-d4	106	72 - 119	
4-Bromofluorobenzene	109	76 - 119	
Toluene-d8	110	81 - 120	

Internal Std	Area Counts	Area Count Limits	Qualifier
1,4-Dichlorobenzene-d4	1952252	992054 - 3968218	
Chlorobenzene-d5	2870196	1470392 - 5881570	
Fluorobenzene	5529068	2867034 - 11468136	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R13058
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	TF3M12313SC	**Lab Sample ID:**	0803106-006A	**Matrix:**	Groundwater
% Solids:	0	**Initial Calibration ID:**	1204	**File ID:**	T1970.D
Date Received:	21-Mar-08	**Date Extracted:**		**Date Analyzed:**	24-Mar-08
Concentration Units (ug/L or mg/Kg dry weight):	µg/L			**Sample Size:**	10 mL

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
(m+p)-Xylene	0.200	4.00	0.200	2		U
1,1,1,2-Tetrachloroethane	0.500	1.00	0.500	2		U
1,1,1-Trichloroethane	0.320	2.00	0.320	2		U
1,1,2,2-Tetrachloroethane	0.320	1.00	0.320	2		U
1,1,2-Trichloroethane	0.500	2.00	0.500	2		U
1,1-Dichloroethane	0.320	2.00	0.320	2		U
1,1-Dichloroethene	0.500	2.00	0.500	2		U
1,1-Dichloropropene	0.500	2.00	0.500	2		U
1,2,3-Trichlorobenzene	1.00	2.00	1.00	2		U
1,2,3-Trichloropropane	2.00	4.00	2.00	2		U
1,2,4-Trichlorobenzene	1.00	2.00	1.00	2		U
1,2,4-Trimethylbenzene	0.320	2.00	9.56	2		
1,2-Dibromo-3-chloropropane	5.00	10.0	5.00	2		U
1,2-Dibromoethane	0.500	2.00	0.500	2		U
1,2-Dichlorobenzene	0.320	2.00	0.320	2		U
1,2-Dichloroethane	0.500	1.00	0.500	2		U
1,2-Dichloropropane	0.320	2.00	0.320	2		U
1,3,5-Trimethylbenzene	0.320	2.00	2.16	2		
1,3-Dichlorobenzene	0.320	2.00	0.320	2		U
1,3-Dichloropropane	0.320	1.00	0.320	2		U
1,4-Dichlorobenzene	0.320	1.00	0.320	2		U
1-Chlorohexane	0.500	2.00	0.500	2		U
2,2-Dichloropropane	1.00	2.00	1.00	2		U
2-Butanone	5.00	20.0	5.00	2		U
2-Chlorotoluene	0.200	2.00	0.200	2		U
4-Chlorotoluene	0.200	2.00	0.200	2		U
4-Methyl-2-pentanone	2.00	20.0	2.00	2		U
Acetone	5.00	20.0	5.00	2		U
Benzene	0.320	1.00	0.320	2		U
Bromobenzene	0.320	2.00	0.320	2		U
Bromochloromethane	0.320	2.00	0.320	2		U
Bromodichloromethane	0.320	1.00	0.320	2		U

Comments:

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ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R13058
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	TF3M12313SC	**Lab Sample ID:**	0803106-006A	**Matrix:**	Groundwater
% Solids:	0	**Initial Calibration ID:**	1204	**File ID:**	T1970.D
Date Received:	21-Mar-08	**Date Extracted:**		**Date Analyzed:**	24-Mar-08
Concentration Units (ug/L or mg/Kg dry weight):	µg/L			**Sample Size:**	10 mL

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
Bromoform	1.00	2.00	1.00	2		U
Bromomethane	0.380	6.00	0.380	2		U
Carbon tetrachloride	0.500	2.00	0.500	2		U
Chlorobenzene	0.320	1.00	0.320	2		U
Chloroethane	1.00	2.00	1.00	2		U
Chloroform	0.200	1.00	0.200	2		U
Chloromethane	1.00	2.00	1.00	2		U
cis-1,2-Dichloroethene	0.320	2.00	0.320	2		U
cis-1,3-Dichloropropene	0.500	1.00	0.500	2		U
Dibromochloromethane	0.320	1.00	0.320	2		U
Dibromomethane	0.320	2.00	0.320	2		U
Dichlorodifluoromethane	0.500	2.00	0.500	2		U
Ethylbenzene	0.200	2.00	0.200	2		U
Hexachlorobutadiene	1.00	2.00	1.00	2		U
Isopropylbenzene	0.320	2.00	52.6	2		
Methyl tert-butyl ether	1.00	10.0	1.00	2		U
Methylene chloride	0.320	2.00	0.320	2		U
n-Butylbenzene	0.320	2.00	1.06	2		F
n-Propylbenzene	0.200	2.00	5.62	2		
Naphthalene	1.00	2.00	1.00	2		U
o-Xylene	0.320	2.00	0.320	2		U
p-Isopropyltoluene	0.320	2.00	1.20	2		F
sec-Butylbenzene	0.320	2.00	1.02	2		F
Styrene	0.320	2.00	0.320	2		U
tert-Butylbenzene	0.320	2.00	1.00	2		F
Tetrachloroethene	0.200	2.00	0.200	2		U
Toluene	0.200	2.00	0.200	2		U
trans-1,2-Dichloroethene	0.320	2.00	0.320	2		U
trans-1,3-Dichloropropene	0.500	2.00	0.500	2		U
Trichloroethene	0.200	2.00	0.200	2		U
Trichlorofluoromethane	0.200	2.00	0.200	2		U
Vinyl chloride	1.00	2.00	1.00	2		U

Comments:

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ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R13058
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	TF3M12313SC	**Lab Sample ID:**	0803106-006A	**Matrix:**	Groundwater
% Solids:	0	**Initial Calibration ID:**	1204	**File ID:**	T1970.D
Date Received:	21-Mar-08	**Date Extracted:**		**Date Analyzed:**	24-Mar-08
Concentration Units (ug/L or mg/Kg dry weight):	µg/L			**Sample Size:**	10 mL

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
Xylenes (total)	0.520	4.00	0.520	2		U

Surrogate	Recovery	Control Limits	Qualifier
1,2-Dichloroethane-d4	102	72 - 119	
4-Bromofluorobenzene	101	76 - 119	
Toluene-d8	104	81 - 120	

Internal Std	Area Counts	Area Count Limits	Qualifier
1,4-Dichlorobenzene-d4	745650	306228 - 1224912	
Chlorobenzene-d5	831035	370666 - 1482666	
Fluorobenzene	1937094	849584 - 3398336	

Comments:

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ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R13058
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	TF3M12613SA	**Lab Sample ID:**	0803106-007A	**Matrix:**	Groundwater
% Solids:	0	**Initial Calibration ID:**	1204	**File ID:**	T1971.D
Date Received:	21-Mar-08	**Date Extracted:**		**Date Analyzed:**	24-Mar-08
Concentration Units (ug/L or mg/Kg dry weight):	µg/L			**Sample Size:**	10 mL

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
(m+p)-Xylene	0.100	2.00	0.100	1		U
1,1,1,2-Tetrachloroethane	0.250	0.500	0.250	1		U
1,1,1-Trichloroethane	0.160	1.00	0.160	1		U
1,1,2,2-Tetrachloroethane	0.160	0.500	0.160	1		U
1,1,2-Trichloroethane	0.250	1.00	0.250	1		U
1,1-Dichloroethane	0.160	1.00	0.160	1		U
1,1-Dichloroethene	0.250	1.00	0.250	1		U
1,1-Dichloropropene	0.250	1.00	0.250	1		U
1,2,3-Trichlorobenzene	0.500	1.00	0.500	1		U
1,2,3-Trichloropropane	1.00	2.00	1.00	1		U
1,2,4-Trichlorobenzene	0.500	1.00	0.500	1		U
1,2,4-Trimethylbenzene	0.160	1.00	0.160	1		U
1,2-Dibromo-3-chloropropane	2.50	5.00	2.50	1		U
1,2-Dibromoethane	0.250	1.00	0.250	1		U
1,2-Dichlorobenzene	0.160	1.00	0.160	1		U
1,2-Dichloroethane	0.250	0.500	0.250	1		U
1,2-Dichloropropane	0.160	1.00	0.160	1		U
1,3,5-Trimethylbenzene	0.160	1.00	0.160	1		U
1,3-Dichlorobenzene	0.160	1.00	0.160	1		U
1,3-Dichloropropane	0.160	0.500	0.160	1		U
1,4-Dichlorobenzene	0.160	0.500	0.160	1		U
1-Chlorohexane	0.250	1.00	0.250	1		U
2,2-Dichloropropane	0.500	1.00	0.500	1		U
2-Butanone	2.50	10.0	2.50	1		U
2-Chlorotoluene	0.100	1.00	0.100	1		U
4-Chlorotoluene	0.100	1.00	0.100	1		U
4-Methyl-2-pentanone	1.00	10.0	1.00	1		U
Acetone	2.50	10.0	2.50	1		U
Benzene	0.160	0.500	0.160	1		U
Bromobenzene	0.160	1.00	0.160	1		U
Bromochloromethane	0.160	1.00	0.160	1		U
Bromodichloromethane	0.160	0.500	0.160	1		U

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R13058
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	TF3M12613SA	**Lab Sample ID:**	0803106-007A	**Matrix:**	Groundwater
% Solids:	0	**Initial Calibration ID:**	1204	**File ID:**	T1971.D
Date Received:	21-Mar-08	**Date Extracted:**		**Date Analyzed:**	24-Mar-08
Concentration Units (ug/L or mg/Kg dry weight):	µg/L			**Sample Size:**	10 mL

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
Bromoform	0.500	1.00	0.500	1		U
Bromomethane	0.190	3.00	0.190	1		U
Carbon tetrachloride	0.250	1.00	0.250	1		U
Chlorobenzene	0.160	0.500	0.160	1		U
Chloroethane	0.500	1.00	0.500	1		U
Chloroform	0.100	0.500	0.100	1		U
Chloromethane	0.500	1.00	0.500	1		U
cis-1,2-Dichloroethene	0.160	1.00	0.160	1		U
cis-1,3-Dichloropropene	0.250	0.500	0.250	1		U
Dibromochloromethane	0.160	0.500	0.160	1		U
Dibromomethane	0.160	1.00	0.160	1		U
Dichlorodifluoromethane	0.250	1.00	0.250	1		U
Ethylbenzene	0.100	1.00	0.100	1		U
Hexachlorobutadiene	0.500	1.00	0.500	1		U
Isopropylbenzene	0.160	1.00	0.160	1		U
Methyl tert-butyl ether	0.500	5.00	0.500	1		U
Methylene chloride	0.160	1.00	0.160	1		U
n-Butylbenzene	0.160	1.00	0.160	1		U
n-Propylbenzene	0.100	1.00	0.100	1		U
Naphthalene	0.500	1.00	0.500	1		U
o-Xylene	0.160	1.00	0.160	1		U
p-Isopropyltoluene	0.160	1.00	0.160	1		U
sec-Butylbenzene	0.160	1.00	1.97	1		
Styrene	0.160	1.00	0.160	1		U
tert-Butylbenzene	0.160	1.00	0.610	1		F
Tetrachloroethene	0.100	1.00	0.100	1		U
Toluene	0.100	1.00	0.100	1		U
trans-1,2-Dichloroethene	0.160	1.00	0.160	1		U
trans-1,3-Dichloropropene	0.250	1.00	0.250	1		U
Trichloroethene	0.100	1.00	0.100	1		U
Trichlorofluoromethane	0.100	1.00	0.100	1		U
Vinyl chloride	0.500	1.00	0.500	1		U

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R13058
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	TF3M12613SA	**Lab Sample ID:**	0803106-007A	**Matrix:**	Groundwater
% Solids:	0	**Initial Calibration ID:**	1204	**File ID:**	T1971.D
Date Received:	21-Mar-08	**Date Extracted:**		**Date Analyzed:**	24-Mar-08
Concentration Units (ug/L or mg/Kg dry weight):	µg/L			**Sample Size:**	10 mL

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
Xylenes (total)	0.260	2.00	0.260	1		U

Surrogate	Recovery	Control Limits	Qualifier
1,2-Dichloroethane-d4	104	72 - 119	
4-Bromofluorobenzene	104	76 - 119	
Toluene-d8	110	81 - 120	

Internal Std	Area Counts	Area Count Limits	Qualifier
1,4-Dichlorobenzene-d4	721397	306228 - 1224912	
Chlorobenzene-d5	844654	370666 - 1482666	
Fluorobenzene	1901815	849584 - 3398336	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R13066
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	TF3M12712SA	**Lab Sample ID:**	0803106-008A	**Matrix:**	Groundwater
% Solids:	0	**Initial Calibration ID:**	1204	**File ID:**	T1991.D
Date Received:	21-Mar-08	**Date Extracted:**		**Date Analyzed:**	25-Mar-08
Concentration Units (ug/L or mg/Kg dry weight):	µg/L			**Sample Size:**	10 mL

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
(m+p)-Xylene	0.100	2.00	12.3	1		
1,1,1,2-Tetrachloroethane	0.250	0.500	0.250	1		U
1,1,1-Trichloroethane	0.160	1.00	0.160	1		U
1,1,2,2-Tetrachloroethane	0.160	0.500	0.160	1		U
1,1,2-Trichloroethane	0.250	1.00	0.250	1		U
1,1-Dichloroethane	0.160	1.00	0.160	1		U
1,1-Dichloroethene	0.250	1.00	0.250	1		U
1,1-Dichloropropene	0.250	1.00	0.250	1		U
1,2,3-Trichlorobenzene	0.500	1.00	0.500	1		U
1,2,3-Trichloropropane	1.00	2.00	1.00	1		U
1,2,4-Trichlorobenzene	0.500	1.00	0.500	1		U
1,2,4-Trimethylbenzene	0.160	1.00	14.5	1		
1,2-Dibromo-3-chloropropane	2.50	5.00	2.50	1		U
1,2-Dibromoethane	0.250	1.00	0.250	1		U
1,2-Dichlorobenzene	0.160	1.00	0.160	1		U
1,2-Dichloroethane	0.250	0.500	0.250	1		U
1,2-Dichloropropane	0.160	1.00	0.160	1		U
1,3,5-Trimethylbenzene	0.160	1.00	0.160	1		U
1,3-Dichlorobenzene	0.160	1.00	0.160	1		U
1,3-Dichloropropane	0.160	0.500	0.160	1		U
1,4-Dichlorobenzene	0.160	0.500	0.160	1		U
1-Chlorohexane	0.250	1.00	0.250	1		U
2,2-Dichloropropane	0.500	1.00	0.500	1		U
2-Butanone	2.50	10.0	2.50	1		U
2-Chlorotoluene	0.100	1.00	0.100	1		U
4-Chlorotoluene	0.100	1.00	0.100	1		U
4-Methyl-2-pentanone	1.00	10.0	1.00	1		U
Acetone	2.50	10.0	2.50	1		U
Benzene	0.160	0.500	0.730	1		
Bromobenzene	0.160	1.00	0.160	1		U
Bromochloromethane	0.160	1.00	0.160	1		U
Bromodichloromethane	0.160	0.500	0.160	1		U

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R13066
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	TF3M12712SA	**Lab Sample ID:**	0803106-008A	**Matrix:**	Groundwater
% Solids:	0	**Initial Calibration ID:**	1204	**File ID:**	T1991.D
Date Received:	21-Mar-08	**Date Extracted:**		**Date Analyzed:**	25-Mar-08
Concentration Units (ug/L or mg/Kg dry weight):	ug/L			**Sample Size:**	10 mL

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
Bromoform	0.500	1.00	0.500	1		U
Bromomethane	0.190	3.00	0.190	1		U
Carbon tetrachloride	0.250	1.00	0.250	1		U
Chlorobenzene	0.160	0.500	0.160	1		U
Chloroethane	0.500	1.00	0.500	1		U
Chloroform	0.100	0.500	0.100	1		U
Chloromethane	0.500	1.00	0.500	1		U
cis-1,2-Dichloroethene	0.160	1.00	0.160	1		U
cis-1,3-Dichloropropene	0.250	0.500	0.250	1		U
Dibromochloromethane	0.160	0.500	0.160	1		U
Dibromomethane	0.160	1.00	0.160	1		U
Dichlorodifluoromethane	0.250	1.00	0.250	1		U
Ethylbenzene	0.100	1.00	15.6	1		
Hexachlorobutadiene	0.500	1.00	0.500	1		U
Isopropylbenzene	0.160	1.00	3.79	1		
Methyl tert-butyl ether	0.500	5.00	0.500	1		U
Methylene chloride	0.160	1.00	0.160	1		U
n-Butylbenzene	0.160	1.00	0.160	1		U
n-Propylbenzene	0.100	1.00	3.39	1		
Naphthalene	0.500	1.00	3.83	1		
o-Xylene	0.160	1.00	0.160	1		U
p-Isopropyltoluene	0.160	1.00	0.400	1		F
sec-Butylbenzene	0.160	1.00	0.260	1		F
Styrene	0.160	1.00	0.160	1		U
tert-Butylbenzene	0.160	1.00	0.160	1		U
Tetrachloroethene	0.100	1.00	0.100	1		U
Toluene	0.100	1.00	0.100	1		U
trans-1,2-Dichloroethene	0.160	1.00	0.160	1		U
trans-1,3-Dichloropropene	0.250	1.00	0.250	1		U
Trichloroethene	0.100	1.00	0.130	1		F
Trichlorofluoromethane	0.100	1.00	0.100	1		U
Vinyl chloride	0.500	1.00	0.500	1		U

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R13066
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	TF3M12712SA	**Lab Sample ID:**	0803106-008A	**Matrix:**	Groundwater
% Solids:	0	**Initial Calibration ID:**	1204	**File ID:**	T1991.D
Date Received:	21-Mar-08	**Date Extracted:**		**Date Analyzed:**	25-Mar-08
Concentration Units (ug/L or mg/Kg dry weight):	µg/L			**Sample Size:**	10 mL

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
Xylenes (total)	0.260	2.00	12.3	1		

Surrogate	Recovery	Control Limits	Qualifier
1,2-Dichloroethane-d4	111	72 - 119	
4-Bromofluorobenzene	100	76 - 119	
Toluene-d8	103	81 - 120	

Internal Std	Area Counts	Area Count Limits	Qualifier
1,4-Dichlorobenzene-d4	714543	306228 - 1224912	
Chlorobenzene-d5	785982	370666 - 1482666	
Fluorobenzene	1750969	849584 - 3398336	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R13058
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	TF3M12813SA	**Lab Sample ID:**	0803106-009A	**Matrix:**	Groundwater
% Solids:	0	**Initial Calibration ID:**	1204	**File ID:**	T1973.D
Date Received:	21-Mar-08	**Date Extracted:**		**Date Analyzed:**	24-Mar-08
Concentration Units (ug/L or mg/Kg dry weight):	µg/L			**Sample Size:**	10 mL

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
(m+p)-Xylene	0.100	2.00	0.380	1		F
1,1,1,2-Tetrachloroethane	0.250	0.500	0.250	1		U
1,1,1-Trichloroethane	0.160	1.00	0.160	1		U
1,1,2,2-Tetrachloroethane	0.160	0.500	0.160	1		U
1,1,2-Trichloroethane	0.250	1.00	0.250	1		U
1,1-Dichloroethane	0.160	1.00	0.160	1		U
1,1-Dichloroethene	0.250	1.00	0.250	1		U
1,1-Dichloropropene	0.250	1.00	0.250	1		U
1,2,3-Trichlorobenzene	0.500	1.00	0.500	1		U
1,2,3-Trichloropropane	1.00	2.00	1.00	1		U
1,2,4-Trichlorobenzene	0.500	1.00	0.500	1		U
1,2,4-Trimethylbenzene	0.160	1.00	0.640	1		F
1,2-Dibromo-3-chloropropane	2.50	5.00	2.50	1		U
1,2-Dibromoethane	0.250	1.00	0.250	1		U
1,2-Dichlorobenzene	0.160	1.00	0.160	1		U
1,2-Dichloroethane	0.250	0.500	0.250	1		U
1,2-Dichloropropane	0.160	1.00	0.160	1		U
1,3,5-Trimethylbenzene	0.160	1.00	0.160	1		U
1,3-Dichlorobenzene	0.160	1.00	0.160	1		U
1,3-Dichloropropane	0.160	0.500	0.160	1		U
1,4-Dichlorobenzene	0.160	0.500	0.160	1		U
1-Chlorohexane	0.250	1.00	0.250	1		U
2,2-Dichloropropane	0.500	1.00	0.500	1		U
2-Butanone	2.50	10.0	2.50	1		U
2-Chlorotoluene	0.100	1.00	0.100	1		U
4-Chlorotoluene	0.100	1.00	0.100	1		U
4-Methyl-2-pentanone	1.00	10.0	1.00	1		U
Acetone	2.50	10.0	2.50	1		U
Benzene	0.160	0.500	0.160	1		U
Bromobenzene	0.160	1.00	0.160	1		U
Bromochloromethane	0.160	1.00	0.160	1		U
Bromodichloromethane	0.160	0.500	0.160	1		U

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R13058
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	TF3M12813SA	**Lab Sample ID:**	0803106-009A	**Matrix:**	Groundwater
% Solids:	0	**Initial Calibration ID:**	1204	**File ID:**	T1973.D
Date Received:	21-Mar-08	**Date Extracted:**		**Date Analyzed:**	24-Mar-08
Concentration Units (ug/L or mg/Kg dry weight):	µg/L			**Sample Size:**	10 mL

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
Bromoform	0.500	1.00	0.500	1		U
Bromomethane	0.190	3.00	0.190	1		U
Carbon tetrachloride	0.250	1.00	0.250	1		U
Chlorobenzene	0.160	0.500	0.160	1		U
Chloroethane	0.500	1.00	0.500	1		U
Chloroform	0.100	0.500	0.100	1		U
Chloromethane	0.500	1.00	0.500	1		U
cis-1,2-Dichloroethene	0.160	1.00	0.160	1		U
cis-1,3-Dichloropropene	0.250	0.500	0.250	1		U
Dibromochloromethane	0.160	0.500	0.160	1		U
Dibromomethane	0.160	1.00	0.160	1		U
Dichlorodifluoromethane	0.250	1.00	0.250	1		U
Ethylbenzene	0.100	1.00	0.630	1		F
Hexachlorobutadiene	0.500	1.00	0.500	1		U
Isopropylbenzene	0.160	1.00	0.390	1		F
Methyl tert-butyl ether	0.500	5.00	0.500	1		U
Methylene chloride	0.160	1.00	0.160	1		U
n-Butylbenzene	0.160	1.00	0.160	1		U
n-Propylbenzene	0.100	1.00	0.260	1		F
Naphthalene	0.500	1.00	0.680	1		F
o-Xylene	0.160	1.00	0.160	1		U
p-Isopropyltoluene	0.160	1.00	0.160	1		U
sec-Butylbenzene	0.160	1.00	0.160	1		U
Styrene	0.160	1.00	0.160	1		U
tert-Butylbenzene	0.160	1.00	0.160	1		U
Tetrachloroethene	0.100	1.00	0.100	1		U
Toluene	0.100	1.00	0.100	1		U
trans-1,2-Dichloroethene	0.160	1.00	0.160	1		U
trans-1,3-Dichloropropene	0.250	1.00	0.250	1		U
Trichloroethene	0.100	1.00	0.100	1		U
Trichlorofluoromethane	0.100	1.00	0.100	1		U
Vinyl chloride	0.500	1.00	0.500	1		U

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R13058
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	TF3M12813SA	**Lab Sample ID:**	0803106-009A	**Matrix:**	Groundwater
% Solids:	0	**Initial Calibration ID:**	1204	**File ID:**	T1973.D
Date Received:	21-Mar-08	**Date Extracted:**		**Date Analyzed:**	24-Mar-08
Concentration Units (ug/L or mg/Kg dry weight):	µg/L			**Sample Size:**	10 mL

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
Xylenes (total)	0.260	2.00	0.380	1		F

Surrogate	Recovery	Control Limits	Qualifier
1,2-Dichloroethane-d4	107	72 - 119	
4-Bromofluorobenzene	101	76 - 119	
Toluene-d8	103	81 - 120	

Internal Std	Area Counts	Area Count Limits	Qualifier
1,4-Dichlorobenzene-d4	711486	306228 - 1224912	
Chlorobenzene-d5	827511	370666 - 1482666	
Fluorobenzene	1885202	849584 - 3398336	

Comments:

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ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R13058
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	TF3M13315SA	**Lab Sample ID:**	0803106-010A	**Matrix:**	Groundwater
% Solids:	0	**Initial Calibration ID:**	1204	**File ID:**	T1974.D
Date Received:	21-Mar-08	**Date Extracted:**		**Date Analyzed:**	24-Mar-08
Concentration Units (ug/L or mg/Kg dry weight):	µg/L			**Sample Size:**	10 mL

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
(m+p)-Xylene	0.100	2.00	0.590	1		F
1,1,1,2-Tetrachloroethane	0.250	0.500	0.250	1		U
1,1,1-Trichloroethane	0.160	1.00	0.160	1		U
1,1,2,2-Tetrachloroethane	0.160	0.500	0.160	1		U
1,1,2-Trichloroethane	0.250	1.00	0.250	1		U
1,1-Dichloroethane	0.160	1.00	0.160	1		U
1,1-Dichloroethene	0.250	1.00	0.250	1		U
1,1-Dichloropropene	0.250	1.00	0.250	1		U
1,2,3-Trichlorobenzene	0.500	1.00	0.500	1		U
1,2,3-Trichloropropane	1.00	2.00	1.00	1		U
1,2,4-Trichlorobenzene	0.500	1.00	0.500	1		U
1,2,4-Trimethylbenzene	0.160	1.00	16.2	1		
1,2-Dibromo-3-chloropropane	2.50	5.00	2.50	1		U
1,2-Dibromoethane	0.250	1.00	0.250	1		U
1,2-Dichlorobenzene	0.160	1.00	0.160	1		U
1,2-Dichloroethane	0.250	0.500	0.250	1		U
1,2-Dichloropropane	0.160	1.00	0.160	1		U
1,3,5-Trimethylbenzene	0.160	1.00	0.160	1		U
1,3-Dichlorobenzene	0.160	1.00	0.160	1		U
1,3-Dichloropropane	0.160	0.500	0.160	1		U
1,4-Dichlorobenzene	0.160	0.500	0.160	1		U
1-Chlorohexane	0.250	1.00	0.250	1		U
2,2-Dichloropropane	0.500	1.00	0.500	1		U
2-Butanone	2.50	10.0	2.50	1		U
2-Chlorotoluene	0.100	1.00	0.100	1		U
4-Chlorotoluene	0.100	1.00	0.100	1		U
4-Methyl-2-pentanone	1.00	10.0	1.00	1		U
Acetone	2.50	10.0	2.50	1		U
Benzene	0.160	0.500	0.160	1		U
Bromobenzene	0.160	1.00	0.160	1		U
Bromochloromethane	0.160	1.00	0.160	1		U
Bromodichloromethane	0.160	0.500	0.160	1		U

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R13058
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	TF3M13315SA	**Lab Sample ID:**	0803106-010A	**Matrix:**	Groundwater
% Solids:	0	**Initial Calibration ID:**	1204	**File ID:**	T1974.D
Date Received:	21-Mar-08	**Date Extracted:**		**Date Analyzed:**	24-Mar-08
Concentration Units (ug/L or mg/Kg dry weight):	ug/L			**Sample Size:**	10 mL

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
Bromoform	0.500	1.00	0.500	1		U
Bromomethane	0.190	3.00	0.190	1		U
Carbon tetrachloride	0.250	1.00	0.250	1		U
Chlorobenzene	0.160	0.500	0.160	1		U
Chloroethane	0.500	1.00	0.500	1		U
Chloroform	0.100	0.500	0.100	1		U
Chloromethane	0.500	1.00	0.500	1		U
cis-1,2-Dichloroethene	0.160	1.00	0.160	1		U
cis-1,3-Dichloropropene	0.250	0.500	0.250	1		U
Dibromochloromethane	0.160	0.500	0.160	1		U
Dibromomethane	0.160	1.00	0.160	1		U
Dichlorodifluoromethane	0.250	1.00	0.250	1		U
Ethylbenzene	0.100	1.00	0.240	1		F
Hexachlorobutadiene	0.500	1.00	0.500	1		U
Isopropylbenzene	0.160	1.00	8.70	1		
Methyl tert-butyl ether	0.500	5.00	0.500	1		U
Methylene chloride	0.160	1.00	0.160	1		U
n-Butylbenzene	0.160	1.00	0.960	1		F
n-Propylbenzene	0.100	1.00	9.23	1		
Naphthalene	0.500	1.00	1.69	1		
o-Xylene	0.160	1.00	0.160	1		U
p-Isopropyltoluene	0.160	1.00	1.98	1		
sec-Butylbenzene	0.160	1.00	4.31	1		
Styrene	0.160	1.00	0.160	1		U
tert-Butylbenzene	0.160	1.00	0.640	1		F
Tetrachloroethene	0.100	1.00	0.100	1		U
Toluene	0.100	1.00	0.100	1		U
trans-1,2-Dichloroethene	0.160	1.00	0.160	1		U
trans-1,3-Dichloropropene	0.250	1.00	0.250	1		U
Trichloroethene	0.100	1.00	0.100	1		U
Trichlorofluoromethane	0.100	1.00	0.100	1		U
Vinyl chloride	0.500	1.00	0.500	1		U

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R13058
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	TF3M13315SA	**Lab Sample ID:**	0803106-010A	**Matrix:**	Groundwater
% Solids:	0	**Initial Calibration ID:**	1204	**File ID:**	T1974.D
Date Received:	21-Mar-08	**Date Extracted:**		**Date Analyzed:**	24-Mar-08
Concentration Units (ug/L or mg/Kg dry weight):	ug/L			**Sample Size:**	10 mL

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
Xylenes (total)	0.260	2.00	0.590	1		F

Surrogate	Recovery	Control Limits	Qualifier
1,2-Dichloroethane-d4	102	72 - 119	
4-Bromofluorobenzene	99	76 - 119	
Toluene-d8	108	81 - 120	

Internal Std	Area Counts	Area Count Limits	Qualifier
1,4-Dichlorobenzene-d4	726032	306228 - 1224912	
Chlorobenzene-d5	835070	370666 - 1482666	
Fluorobenzene	1896765	849584 - 3398336	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R13058
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	TF3M13315SC	**Lab Sample ID:**	0803106-011A	**Matrix:**	Groundwater
% Solids:	0	**Initial Calibration ID:**	1204	**File ID:**	T1975.D
Date Received:	21-Mar-08	**Date Extracted:**		**Date Analyzed:**	24-Mar-08
Concentration Units (ug/L or mg/Kg dry weight):	µg/L			**Sample Size:**	10 mL

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
(m+p)-Xylene	0.100	2.00	0.700	1		F
1,1,1,2-Tetrachloroethane	0.250	0.500	0.250	1		U
1,1,1-Trichloroethane	0.160	1.00	0.160	1		U
1,1,2,2-Tetrachloroethane	0.160	0.500	0.160	1		U
1,1,2-Trichloroethane	0.250	1.00	0.250	1		U
1,1-Dichloroethane	0.160	1.00	0.160	1		U
1,1-Dichloroethene	0.250	1.00	0.250	1		U
1,1-Dichloropropene	0.250	1.00	0.250	1		U
1,2,3-Trichlorobenzene	0.500	1.00	0.500	1		U
1,2,3-Trichloropropane	1.00	2.00	1.00	1		U
1,2,4-Trichlorobenzene	0.500	1.00	0.500	1		U
1,2,4-Trimethylbenzene	0.160	1.00	18.2	1		
1,2-Dibromo-3-chloropropane	2.50	5.00	2.50	1		U
1,2-Dibromoethane	0.250	1.00	0.250	1		U
1,2-Dichlorobenzene	0.160	1.00	0.160	1		U
1,2-Dichloroethane	0.250	0.500	0.250	1		U
1,2-Dichloropropane	0.160	1.00	0.160	1		U
1,3,5-Trimethylbenzene	0.160	1.00	0.160	1		U
1,3-Dichlorobenzene	0.160	1.00	0.160	1		U
1,3-Dichloropropane	0.160	0.500	0.160	1		U
1,4-Dichlorobenzene	0.160	0.500	0.160	1		U
1-Chlorohexane	0.250	1.00	0.250	1		U
2,2-Dichloropropane	0.500	1.00	0.500	1		U
2-Butanone	2.50	10.0	2.50	1		U
2-Chlorotoluene	0.100	1.00	0.100	1		U
4-Chlorotoluene	0.100	1.00	0.100	1		U
4-Methyl-2-pentanone	1.00	10.0	1.00	1		U
Acetone	2.50	10.0	2.50	1		U
Benzene	0.160	0.500	0.160	1		U
Bromobenzene	0.160	1.00	0.160	1		U
Bromochloromethane	0.160	1.00	0.160	1		U
Bromodichloromethane	0.160	0.500	0.160	1		U

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R13058
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	TF3M13315SC	**Lab Sample ID:**	0803106-011A	**Matrix:**	Groundwater
% Solids:	0	**Initial Calibration ID:**	1204	**File ID:**	T1975.D
Date Received:	21-Mar-08	**Date Extracted:**		**Date Analyzed:**	24-Mar-08
Concentration Units (ug/L or mg/Kg dry weight):	µg/L			**Sample Size:**	10 mL

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
Bromoform	0.500	1.00	0.500	1		U
Bromomethane	0.190	3.00	0.190	1		U
Carbon tetrachloride	0.250	1.00	0.250	1		U
Chlorobenzene	0.160	0.500	0.160	1		U
Chloroethane	0.500	1.00	0.500	1		U
Chloroform	0.100	0.500	0.100	1		U
Chloromethane	0.500	1.00	0.500	1		U
cis-1,2-Dichloroethene	0.160	1.00	0.160	1		U
cis-1,3-Dichloropropene	0.250	0.500	0.250	1		U
Dibromochloromethane	0.160	0.500	0.160	1		U
Dibromomethane	0.160	1.00	0.160	1		U
Dichlorodifluoromethane	0.250	1.00	0.250	1		U
Ethylbenzene	0.100	1.00	0.280	1		F
Hexachlorobutadiene	0.500	1.00	0.500	1		U
Isopropylbenzene	0.160	1.00	9.75	1		
Methyl tert-butyl ether	0.500	5.00	0.500	1		U
Methylene chloride	0.160	1.00	0.160	1		U
n-Butylbenzene	0.160	1.00	1.02	1		
n-Propylbenzene	0.100	1.00	10.4	1		
Naphthalene	0.500	1.00	1.77	1		
o-Xylene	0.160	1.00	0.160	1		U
p-Isopropyltoluene	0.160	1.00	2.21	1		
sec-Butylbenzene	0.160	1.00	4.82	1		
Styrene	0.160	1.00	0.160	1		U
tert-Butylbenzene	0.160	1.00	0.710	1		F
Tetrachloroethene	0.100	1.00	0.100	1		U
Toluene	0.100	1.00	0.100	1		U
trans-1,2-Dichloroethene	0.160	1.00	0.160	1		U
trans-1,3-Dichloropropene	0.250	1.00	0.250	1		U
Trichloroethene	0.100	1.00	0.100	1		U
Trichlorofluoromethane	0.100	1.00	0.100	1		U
Vinyl chloride	0.500	1.00	0.500	1		U

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R13058
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	TF3M13315SC	**Lab Sample ID:**	0803106-011A	**Matrix:**	Groundwater
% Solids:	0	**Initial Calibration ID:**	1204	**File ID:**	T1975.D
Date Received:	21-Mar-08	**Date Extracted:**		**Date Analyzed:**	24-Mar-08
Concentration Units (ug/L or mg/Kg dry weight):	ug/L			**Sample Size:**	10 mL

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
Xylenes (total)	0.260	2.00	0.700	1		F

Surrogate	Recovery	Control Limits	Qualifier
1,2-Dichloroethane-d4	102	72 - 119	
4-Bromofluorobenzene	100	76 - 119	
Toluene-d8	108	81 - 120	

Internal Std	Area Counts	Area Count Limits	Qualifier
1,4-Dichlorobenzene-d4	724238	306228 - 1224912	
Chlorobenzene-d5	842690	370666 - 1482666	
Fluorobenzene	1908082	849584 - 3398336	

Comments:

Quality Control Results

GC/MS Volatile Organics Data

AFCEE
ORGANIC ANALYSES DATA SHEET 3
INITIAL MULTIPOINT CALIBRATION-GC/MS ANALYSIS

Analytical Method: 8260B

AAB #:

Lab Name: Life Science Laboratories, Inc.

Contract #:

Instrument ID: HP5973 GCMS#1

Date of Initial Calibration: 18-MAR-08

Initial Calibration ID: 1204

Concentration Units (ug/L or mg/kg): ug/L

SEE ATTACHED

Comments:

AFCEE FORM O-3

Response Factor Report #1MS11

Method : C:\HPCHEM\1\METHODS\T318VOCW.M (RTE Integrator)
Title : VOC's w/Restek Rtx-VMS, 0.18 mm x 40 m, 1.0 df
Last Update : Tue Mar 18 16:12:25 2008
Response via : Continuing Calibration

ICAL # 1204

Calibration Files
0.5 =T1901.D 1.0 =T1902.D 2.0 =T1903.D
10 =T1904.D 20 =T1905.D 30 =T1906.D

		Compound	0.5	1.0	2.0	10	20	30	Avg	%RSD
1)	I	Fluorobenzene	----------	----------	----------	ISTD	----------	----------		
2)		Dichlorodifluoromet	0.240	0.265	0.237	0.348	0.327	0.348	0.299	16.73
3)	P	Chloromethane	0.368	0.360	0.338	0.423	0.405	0.428	0.389	8.76
4)	CP	Vinyl chloride	0.281	0.292	0.263	0.367	0.349	0.369	0.324	13.51
5)		Bromomethane	0.131	0.125	0.112	0.145	0.143	0.159	0.140	13.19
6)		Chloroethane	0.146	0.163	0.155	0.198	0.193	0.205	0.179	13.11
7)		Trichlorofluorometh	0.322	0.343	0.310	0.441	0.418	0.451	0.387	15.47
8)		Acetone	0.061	0.055	0.047	0.051	0.048	0.052	0.052	9.23
9)		Acrolein	0.020	0.022	0.023	0.029	0.029	0.032	0.027	18.97
10)	CPM	1,1-Dichloroethene	0.155	0.148	0.146	0.210	0.196	0.201	0.180	16.02
11)		Methyl iodide		0.037	0.074	0.201	0.223	0.227	0.168	53.01
12)		1,1,2-Trichloro-1,2	0.170	0.182	0.164	0.260	0.244	0.247	0.217	19.62
13)		Methyl acetate	0.116	0.128	0.108	0.130	0.124	0.127	0.122	6.47
14)		Acrylonitrile	0.050	0.050	0.049	0.059	0.056	0.060	0.055	8.20
15)		Methylene chloride	0.296	0.257	0.225	0.266	0.245	0.247	0.255	8.73
16)		Carbon disulfide	0.676	0.704	0.647	0.883	0.838	0.891	0.782	13.12
17)		trans-1,2-Dichloroe	0.189	0.204	0.183	0.261	0.243	0.246	0.225	14.20
18)		Methyl tert-Butyl e	0.507	0.532	0.492	0.608	0.546	0.472	0.527	8.34
19)	P	1,1-Dichloroethane	0.417	0.427	0.391	0.511	0.480	0.486	0.457	9.80
20)		Vinyl acetate	0.262	0.304	0.278	0.350	0.327	0.369	0.318	12.18
21)		2-Butanone	0.070	0.063	0.061	0.068	0.065	0.071	0.066	5.36
22)		cis-1,2-Dichloroeth	0.232	0.229	0.223	0.283	0.268	0.271	0.254	9.79
23)		Bromochloromethane	0.084	0.093	0.092	0.116	0.107	0.110	0.102	11.70
24)	CP	Chloroform	0.423	0.407	0.369	0.472	0.438	0.449	0.429	7.84
25)		2,2-Dichloropropane	0.329	0.344	0.311	0.441	0.413	0.426	0.385	14.31
26)		Cyclohexane	0.378	0.386	0.356	0.551	0.515	0.522	0.462	18.26
27)	S	1,2-Dichloroethane-	0.225	0.231	0.216	0.272	0.255	0.261	0.245	8.60
28)		1,2-Dichloroethane	0.271	0.270	0.264	0.323	0.304	0.313	0.293	8.26
29)		1,1,1-Trichloroetha	0.316	0.309	0.300	0.431	0.407	0.420	0.372	16.09
30)		1,1-Dichloropropene	0.285	0.289	0.276	0.398	0.378	0.383	0.342	16.25
31)		Carbon tetrachlorid	0.199	0.204	0.189	0.304	0.302	0.318	0.263	23.69
32)	M	Benzene	0.972	1.015	0.943	1.236	1.158	1.167	1.093	10.40
33)	M	Trichloroethene	0.229	0.231	0.220	0.294	0.278	0.281	0.259	12.14
34)		Dibromomethane	0.095	0.101	0.103	0.123	0.118	0.118	0.111	9.73
35)		Methylcyclohexane	0.358	0.372	0.349	0.548	0.521	0.530	0.460	20.63
36)	CP	1,2-Dichloropropane	0.234	0.236	0.228	0.286	0.268	0.271	0.256	9.02
37)		Bromodichloromethan	0.221	0.248	0.222	0.307	0.298	0.310	0.275	15.40
38)		2-Chloroethylvinyl				0.003	0.002	0.001	0.001	83.62
39)		4-Methyl-2-pentanon	0.120	0.130	0.121	0.146	0.142	0.157	0.138	10.35
40)		cis-1,3-Dichloropro	0.306	0.319	0.305	0.413	0.402	0.418	0.369	15.10
41)	S	Toluene-d8	0.809	0.871	0.819	1.072	1.000	1.014	0.943	11.31
42)	CPM	Toluene	0.644	0.671	0.623	0.822	0.770	0.783	0.728	10.97
43)		trans-1,3-Dichlorop	0.246	0.247	0.238	0.334	0.327	0.341	0.297	16.94

(#) = Out of Range ### Number of calibration levels exceeded format ###

Response Factor Report #1MS11

Method : C:\HPCHEM\1\METHODS\T318VOCW.M (RTE Integrator)
Title : VOC's w/Restek Rtx-VMS, 0.18 mm x 40 m, 1.0 df
Last Update : Tue Mar 18 16:12:25 2008
Response via : Continuing Calibration

Calibration Files
0.5 =T1901.D 1.0 =T1902.D 2.0 =T1903.D
10 =T1904.D 20 =T1905.D 30 =T1906.D

		Compound	0.5	1.0	2.0	10	20	30	Avg	%RSD
44)		1,1,2-Trichloroetha	0.117	0.134	0.129	0.157	0.149	0.150	0.141	10.31
45)		2-Hexanone	0.084	0.089	0.084	0.103	0.103	0.113	0.098	12.33
46)	I	Chlorobenzene-d5	----------	----------	----------	ISTD	----------	----------		
47)		1,2-Dibromoethane	0.301	0.318	0.313	0.389	0.382	0.390	0.355	11.61
48)		1,3-Dichloropropane	0.691	0.689	0.668	0.824	0.785	0.788	0.747	8.27
49)		Dibromochloromethan	0.296	0.312	0.295	0.428	0.438	0.459	0.385	20.88
50)		Tetrachloroethene	0.509	0.571	0.504	0.733	0.695	0.689	0.630	15.63
51)		1-Chlorohexane	0.730	0.729	0.695	0.998	0.969	0.971	0.869	16.36
52)		1,1,1,2-Tetrachloro	0.364	0.368	0.364	0.510	0.513	0.529	0.456	18.70
53)	PM	Chlorobenzene	1.584	1.595	1.502	1.892	1.794	1.791	1.708	8.49
54)	CP	Ethylbenzene	2.904	3.020	2.801	3.700	3.478	3.462	3.255	10.51
55)		(m+p)-Xylene	1.033	1.080	1.053	1.378	1.311	1.307	1.209	12.14
56)		o-Xylene	1.010	1.062	0.995	1.333	1.270	1.278	1.175	12.44
57)		Styrene	1.477	1.679	1.609	2.194	2.116	2.137	1.908	16.01
58)	P	Bromoform	0.155	0.142	0.159	0.229	0.244	0.262	0.210	26.77
59)	S	Bromofluorobenzene	0.857	0.846	0.747	0.952	0.904	0.906	0.875	7.62
60)	I	1,4-Dichlorobenzene-d	----------	----------	----------	ISTD	----------	----------		
61)		trans-1,4-Dichloro-		0.044	0.053	0.082	0.090	0.098	0.078	31.05
62)	P	1,1,2,2-Tetrachloro	0.521	0.541	0.517	0.604	0.570	0.579	0.558	5.85
63)		Isopropylbenzene	3.549	3.628	3.377	4.552	4.219	4.204	3.950	10.94
64)		1,2,3-Trichloroprop	0.467	0.499	0.455	0.544	0.514	0.513	0.501	6.17
65)		Bromobenzene	0.805	0.826	0.741	0.943	0.890	0.898	0.858	8.12
66)		n-Propylbenzene	4.027	4.179	4.002	5.468	5.122	5.058	4.683	12.80
67)		2-Chlorotoluene	2.900	2.876	2.709	3.524	3.275	3.292	3.125	9.47
68)		4-Chlorotoluene	2.436	2.592	2.438	3.107	2.923	2.923	2.764	9.79
69)		1,3,5-Trimethylbenz	2.664	2.818	2.774	3.760	3.605	3.608	3.262	14.78
70)		tert-Butylbenzene	2.390	2.467	2.343	3.305	3.132	3.150	2.849	14.93
71)		1,2,4-Trimethylbenz	2.337	2.506	2.443	3.435	3.346	3.365	2.977	17.33
72)		sec-Butylbenzene	3.421	3.560	3.392	4.975	4.732	4.700	4.197	16.74
73)		1,3-Dichlorobenzene	1.536	1.593	1.478	1.890	1.769	1.784	1.694	9.23
74)		p-Isopropyltoluene	2.615	2.780	2.728	3.997	3.883	3.879	3.396	19.05
75)		1,4-Dichlorobenzene	1.515	1.549	1.437	1.813	1.718	1.727	1.644	8.62
76)		n-Butylbenzene	1.885	1.947	1.958	3.151	3.206	3.241	2.678	26.23 QUAD
77)		1,2-Dichlorobenzene	1.435	1.465	1.355	1.685	1.587	1.619	1.539	7.83
78)		1,2-Dibromo-3-chlor	0.047	0.073	0.070	0.094	0.093	0.096	0.081	22.95
79)		1,2,4-Trichlorobenz	0.662	0.645	0.673	0.955	0.994	1.017	0.862	22.45
80)		Hexachlorobutadiene	0.500	0.549	0.520	0.759	0.741	0.758	0.660	19.62
81)		Naphthalene	0.673	0.688	0.736	1.120	1.297	1.339	1.044	32.32 QUAD
82)		1,2,3-Trichlorobenz	0.600	0.639	0.631	0.899	0.930	0.947	0.808	21.78

(#) = Out of Range ### Number of calibration levels exceeded format ###

Response Factor Report #1MS11

Method : C:\HPCHEM\1\METHODS\T318VOCW.M (RTE Integrator)
Title : VOC's w/Restek Rtx-VMS, 0.18 mm x 40 m, 1.0 df
Last Update : Thu Mar 20 09:38:45 2008
Response via : Initial Calibration

Calibration Files
40 =T1907.D = =
= = =

		Compound	40
1)	I	Fluorobenzene	----------ISTD----
2)		Dichlorodifluoromet	0.328
3)	P	Chloromethane	0.400
4)	CP	Vinyl chloride	0.345
5)		Bromomethane	0.163
6)		Chloroethane	0.191
7)		Trichlorofluorometh	0.424
8)		Acetone	0.049
9)		Acrolein	0.032
10)	CPM	1,1-Dichloroethene	0.204
11)		Methyl iodide	0.246
12)		1,1,2-Trichloro-1,2	0.252
13)		Methyl acetate	0.122
14)		Acrylonitrile	0.056
15)		Methylene chloride	0.248
16)		Carbon disulfide	0.832
17)		trans-1,2-Dichloroe	0.248
18)		Methyl tert-Butyl e	0.531
19)	P	1,1-Dichloroethane	0.485
20)		Vinyl acetate	0.336
21)		2-Butanone	0.067
22)		cis-1,2-Dichloroeth	0.271
23)		Bromochloromethane	0.109
24)	CP	Chloroform	0.448
25)		2,2-Dichloropropane	0.432
26)		Cyclohexane	0.528
27)	S	1,2-Dichloroethane-	0.256
28)		1,2-Dichloroethane	0.308
29)		1,1,1-Trichloroetha	0.419
30)		1,1-Dichloropropene	0.386
31)		Carbon tetrachlorid	0.326
32)	M	Benzene	1.156
33)	M	Trichloroethene	0.284
34)		Dibromomethane	0.119
35)		Methylcyclohexane	0.543
36)	CP	1,2-Dichloropropane	0.271
37)		Bromodichloromethan	0.314
38)		2-Chloroethylvinyl	0.000
39)		4-Methyl-2-pentanon	0.148
40)		cis-1,3-Dichloropro	0.420
41)	S	Toluene-d8	1.013
42)	CPM	Toluene	0.786
43)		trans-1,3-Dichlorop	0.346

(#) = Out of Range ### Number of calibration levels exceeded format ###

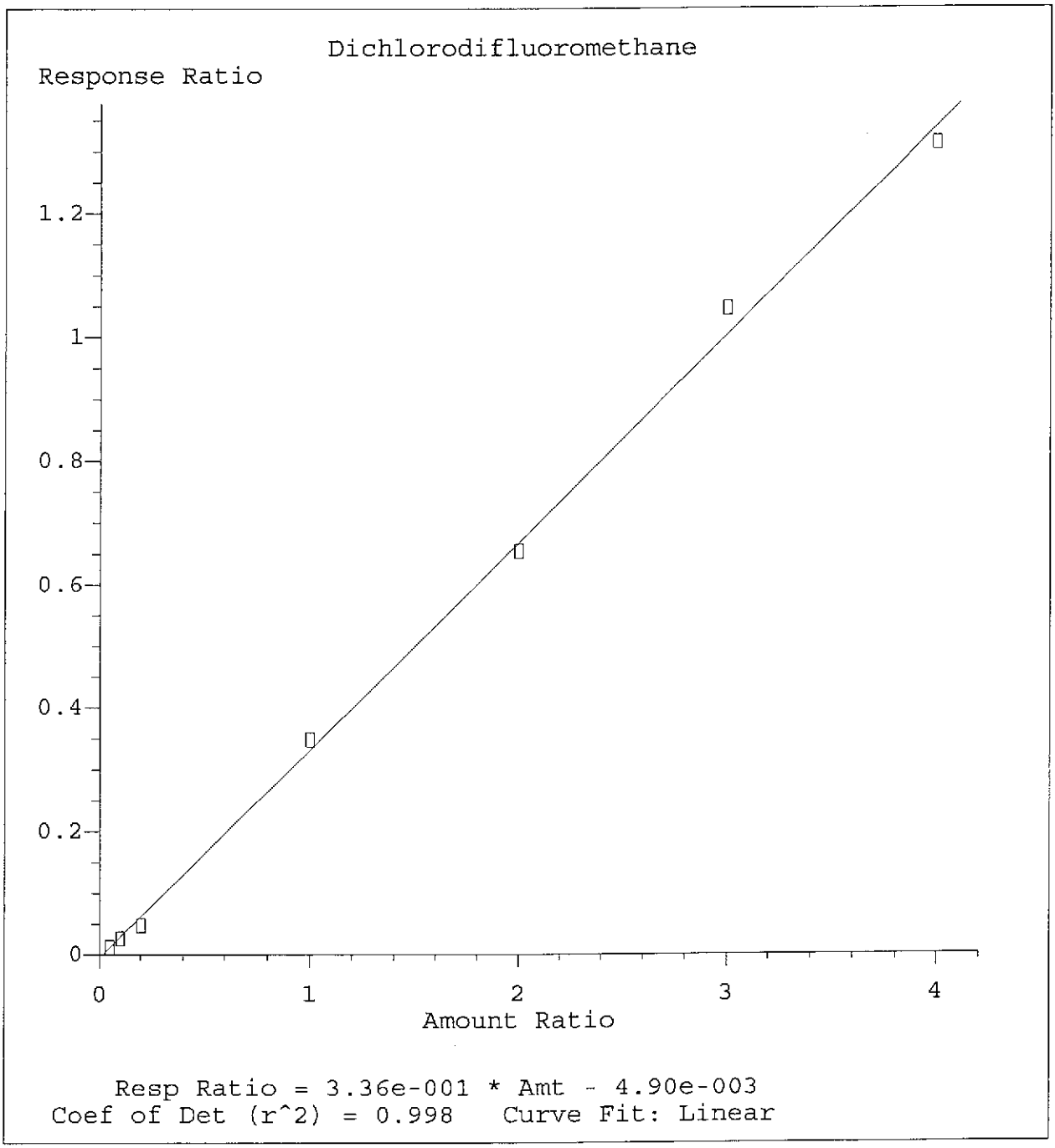
Response Factor Report #1MS11

Method : C:\HPCHEM\1\METHODS\T318VOCW.M (RTE Integrator)
Title : VOC's w/Restek Rtx-VMS, 0.18 mm x 40 m, 1.0 df
Last Update : Thu Mar 20 09:38:45 2008
Response via : Initial Calibration

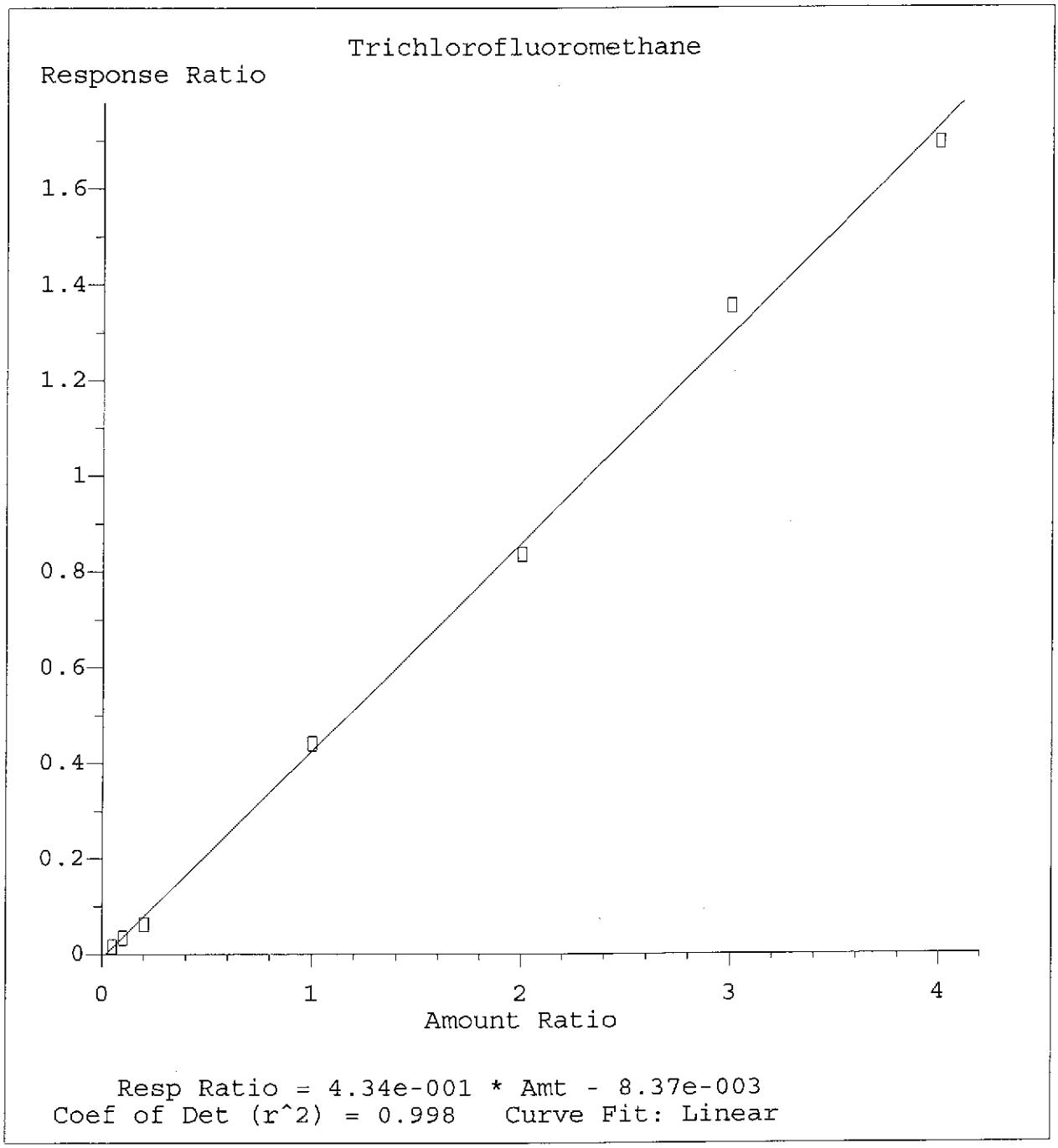
Calibration Files
40 =T1907.D = =
= = =

		Compound	40
44)		1,1,2-Trichloroetha	0.151
45)		2-Hexanone	0.108
46)	I	Chlorobenzene-d5	----------ISTD----------
47)		1,2-Dibromoethane	0.388
48)		1,3-Dichloropropane	0.782
49)		Dibromochloromethan	0.470
50)		Tetrachloroethene	0.706
51)		1-Chlorohexane	0.990
52)		1,1,1,2-Tetrachloro	0.543
53)	PM	Chlorobenzene	1.795
54)	CP	Ethylbenzene	3.423
55)		(m+p)-Xylene	1.303
56)		o-Xylene	1.281
57)		Styrene	2.142
58)	P	Bromoform	0.276
59)	S	Bromofluorobenzene	0.913
60)	I	1,4-Dichlorobenzene-d	----------ISTD----------
61)		trans-1,4-Dichloro-	0.101
62)	P	1,1,2,2-Tetrachloro	0.577
63)		Isopropylbenzene	4.123
64)		1,2,3-Trichloroprop	0.517
65)		Bromobenzene	0.901
66)		n-Propylbenzene	4.927
67)		2-Chlorotoluene	3.300
68)		4-Chlorotoluene	2.932
69)		1,3,5-Trimethylbenz	3.605
70)		tert-Butylbenzene	3.157
71)		1,2,4-Trimethylbenz	3.405
72)		sec-Butylbenzene	4.600
73)		1,3-Dichlorobenzene	1.806
74)		p-Isopropyltoluene	3.892
75)		1,4-Dichlorobenzene	1.748
76)		n-Butylbenzene	3.356
77)		1,2-Dichlorobenzene	1.624
78)		1,2-Dibromo-3-chlor	0.097
79)		1,2,4-Trichlorobenz	1.091
80)		Hexachlorobutadiene	0.791
81)		Naphthalene	1.453
82)		1,2,3-Trichlorobenz	1.010

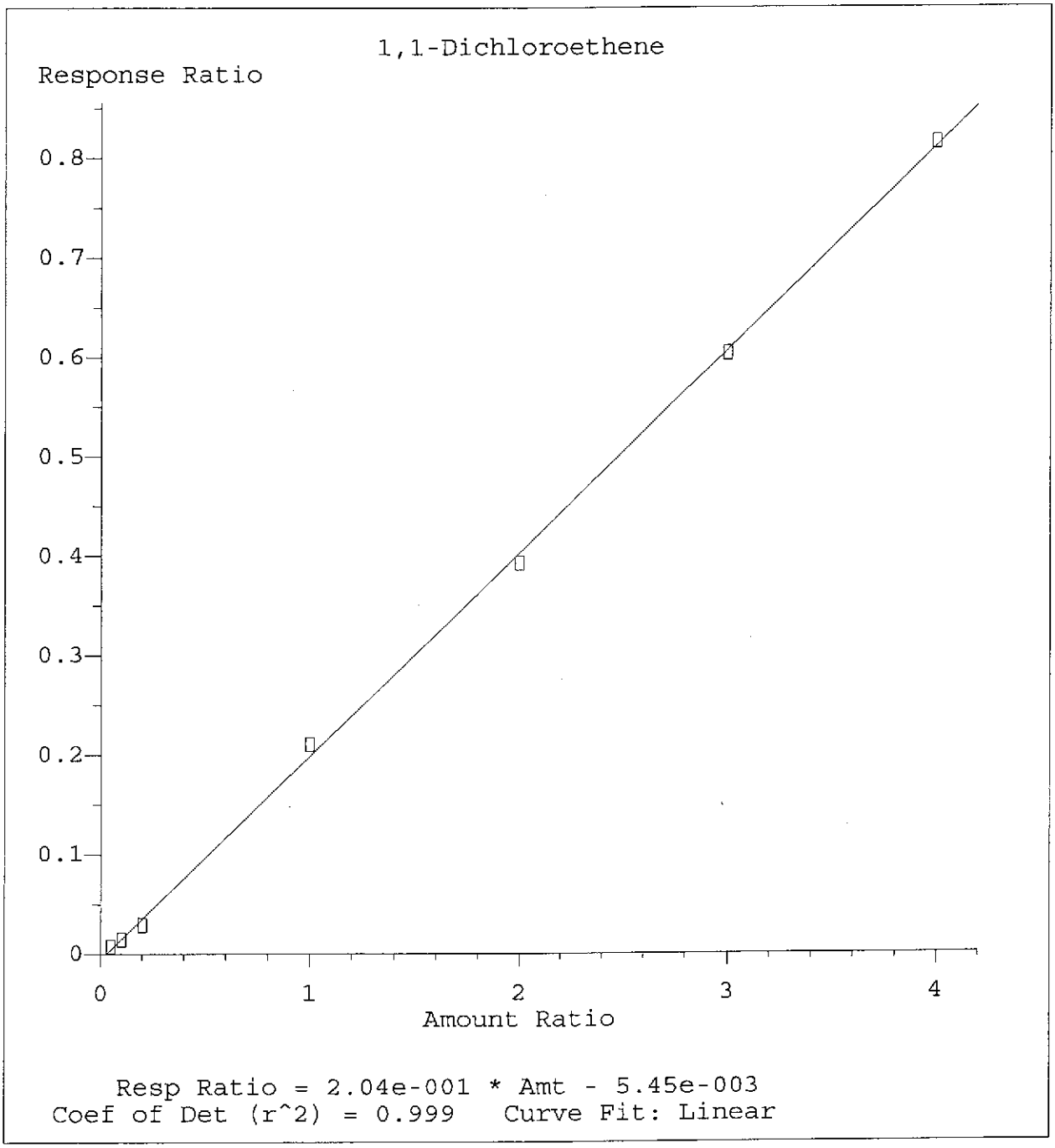
(#) = Out of Range ### Number of calibration levels exceeded format ###



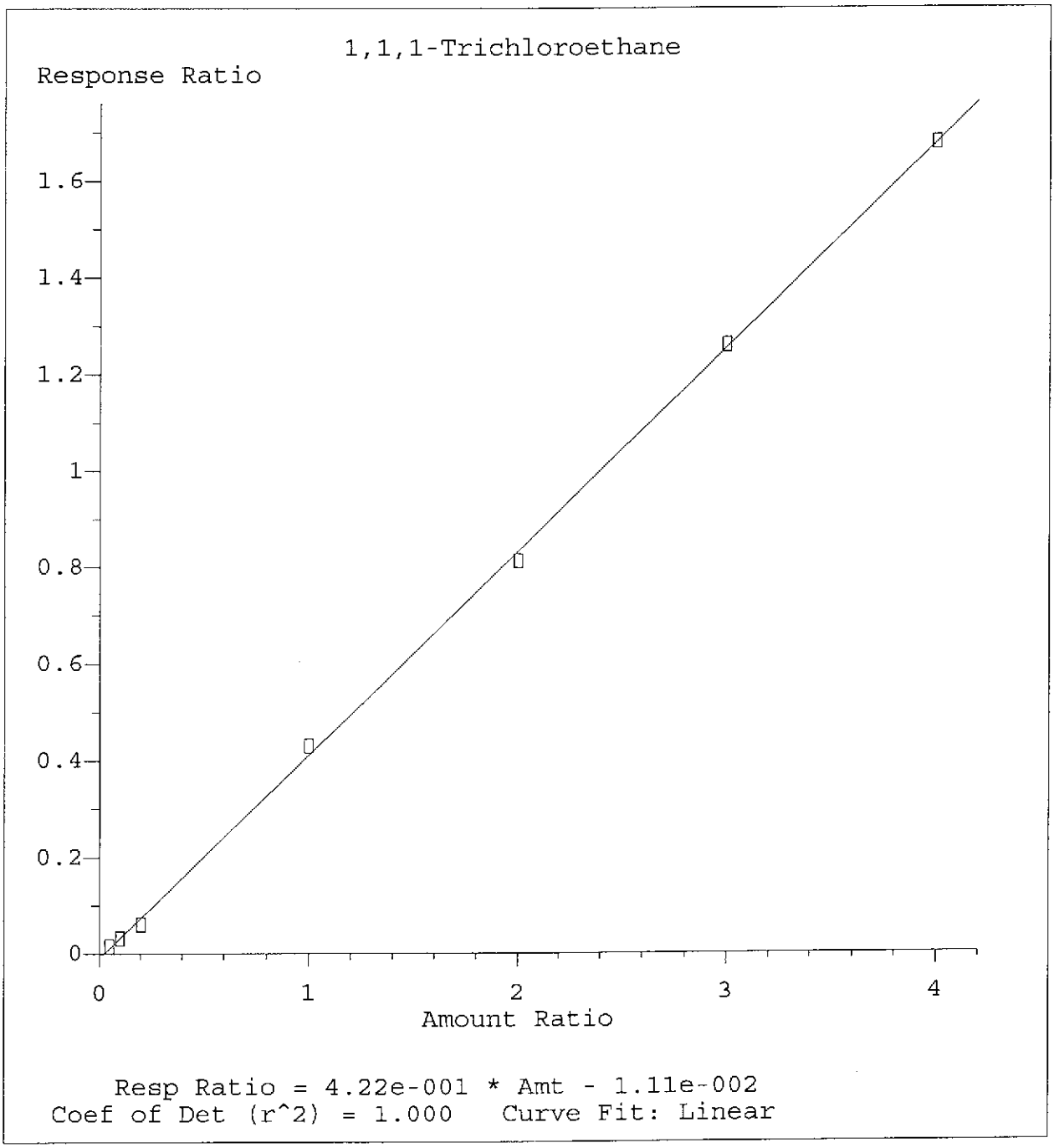
Method Name: C:\HPCHEM\1\METHODS\T318VOCW.M
Calibration Table Last Updated: Thu Mar 20 09:19:57 2008



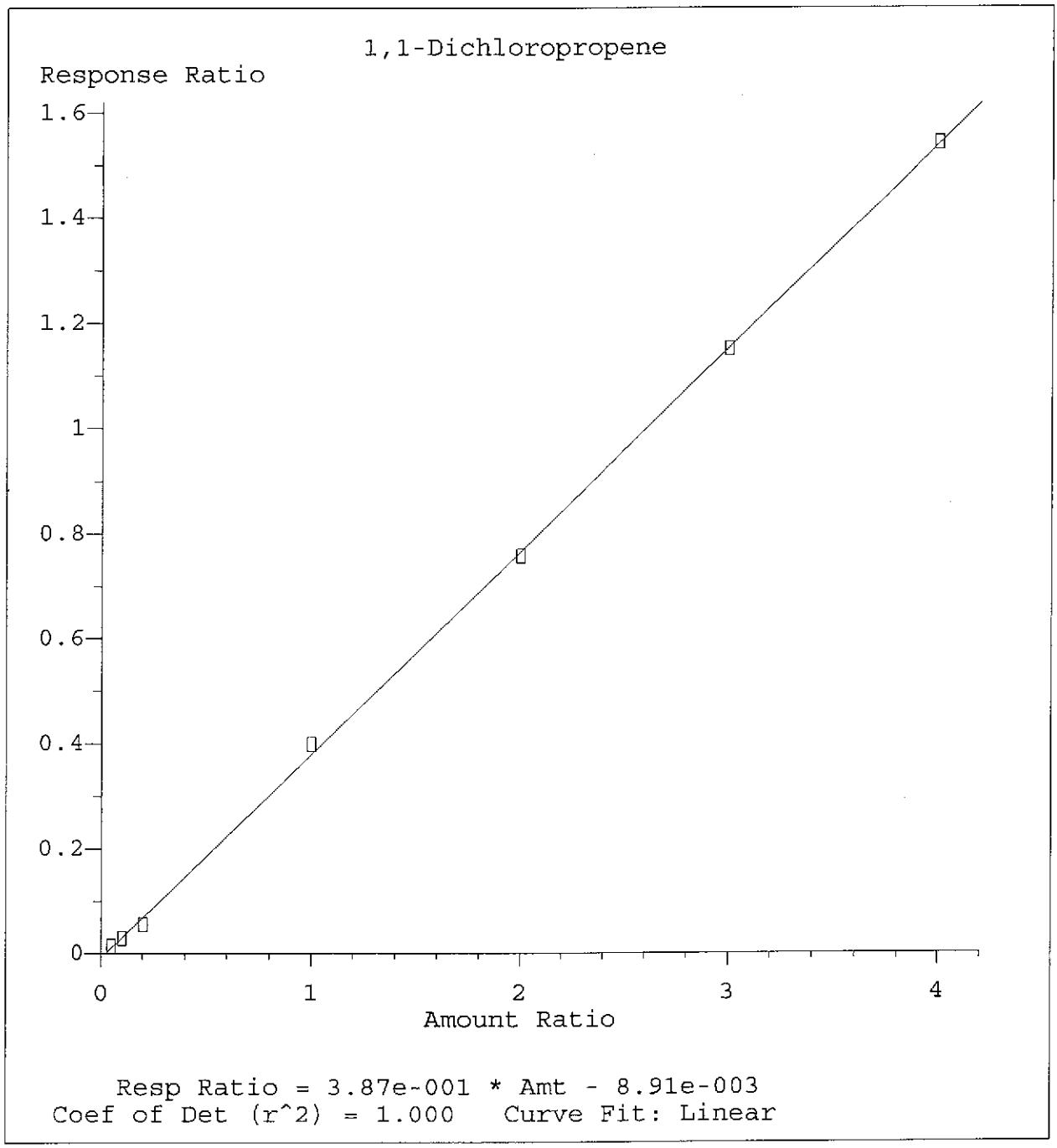
Method Name: C:\HPCHEM\1\METHODS\T318VOCW.M
Calibration Table Last Updated: Thu Mar 20 09:19:57 2008



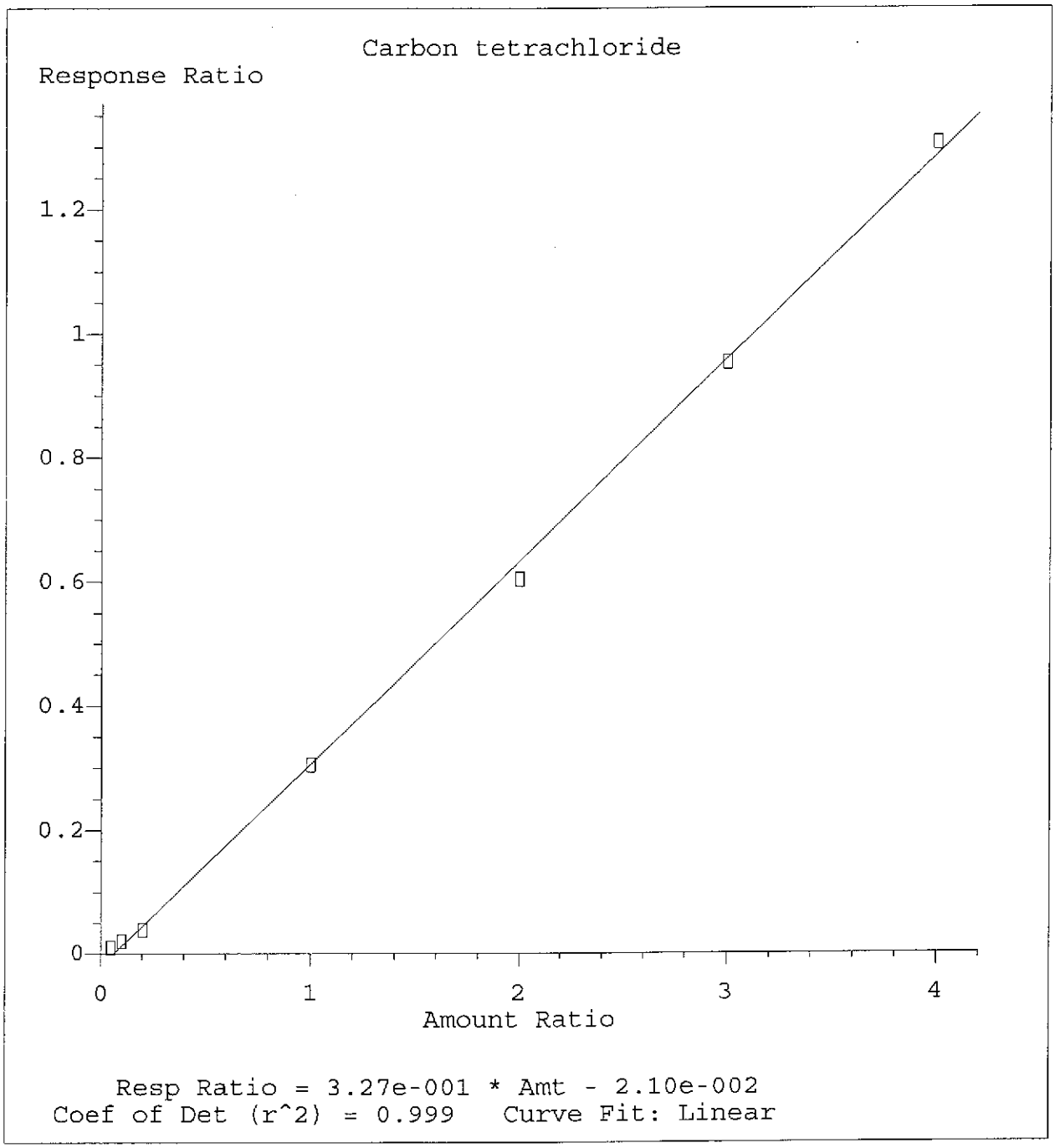
Method Name: C:\HPCHEM\1\METHODS\T318VOCW.M
Calibration Table Last Updated: Thu Mar 20 09:19:57 2008



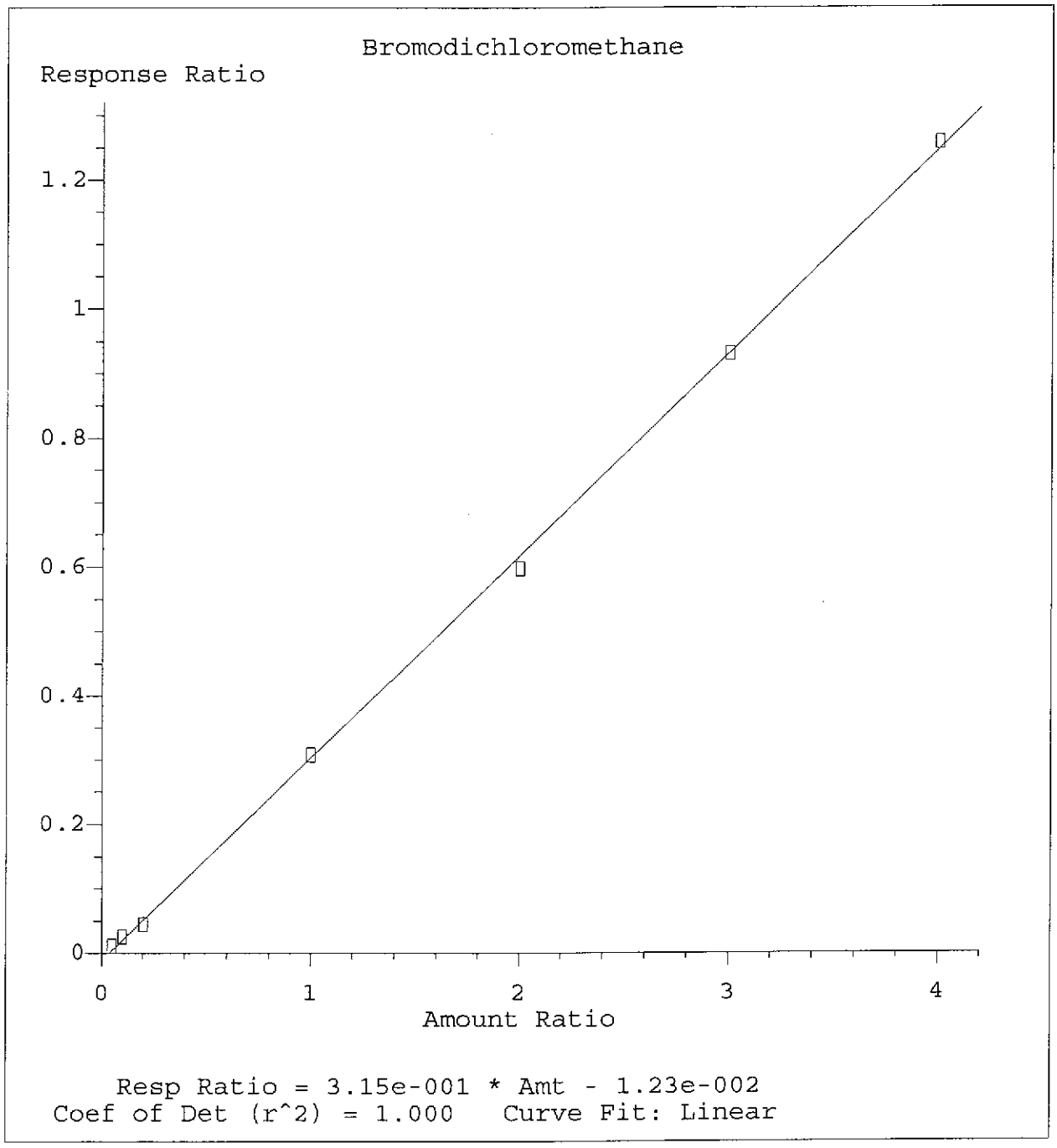
Method Name: C:\HPCHEM\1\METHODS\T318VOCW.M
Calibration Table Last Updated: Thu Mar 20 09:19:57 2008



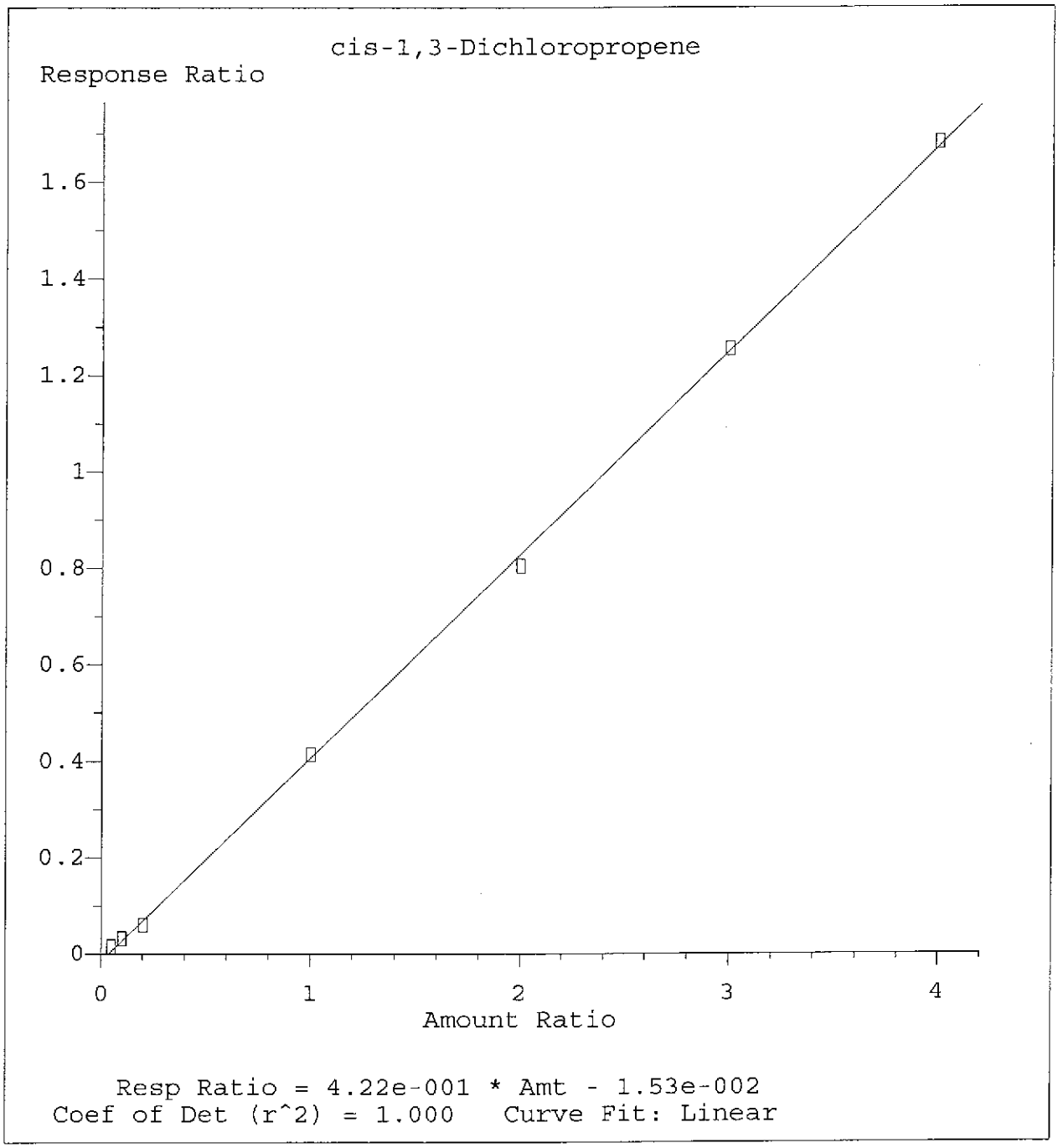
Method Name: C:\HPCHEM\1\METHODS\T318VOCW.M
Calibration Table Last Updated: Thu Mar 20 09:19:57 2008



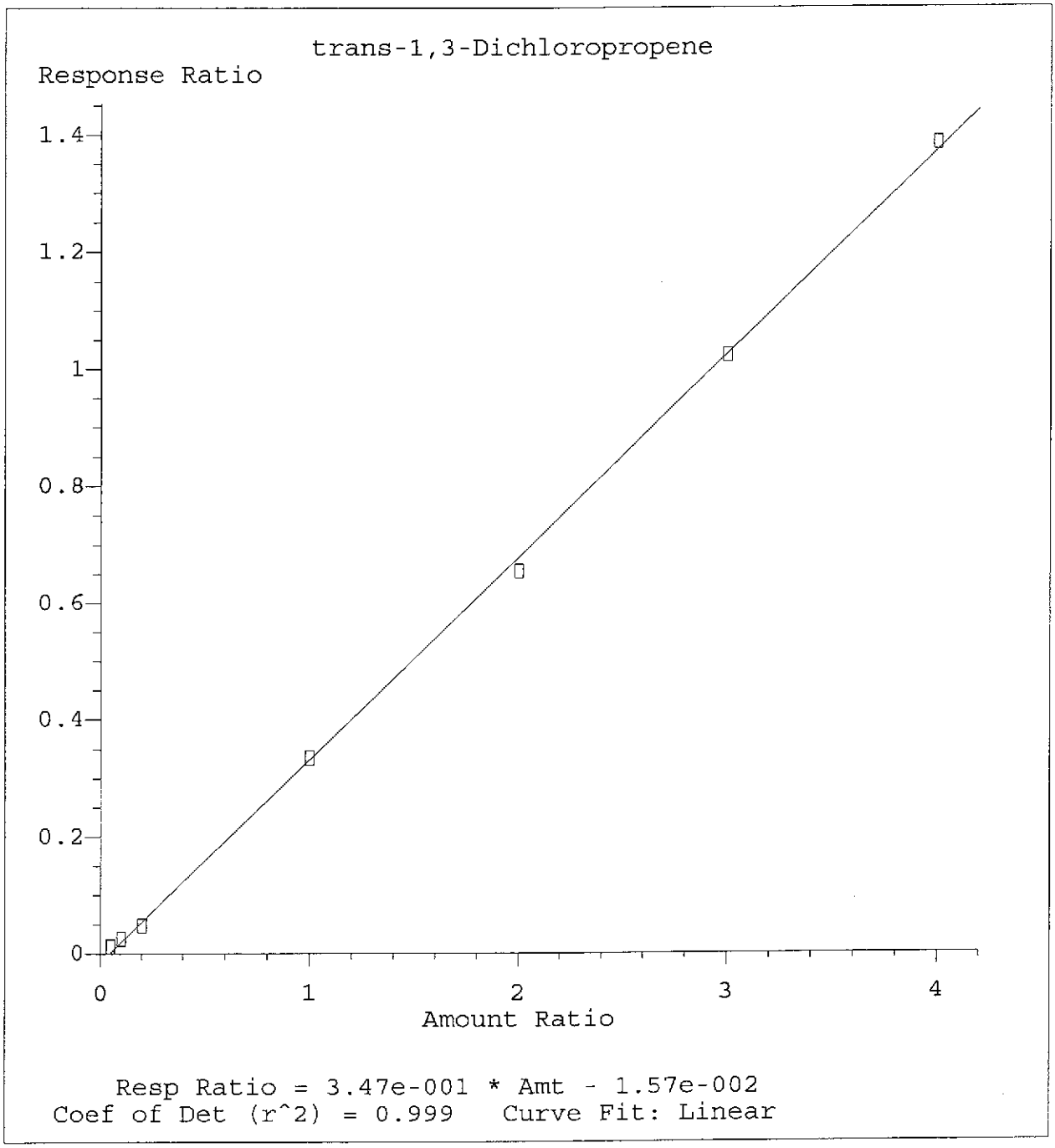
Method Name: C:\HPCHEM\1\METHODS\T318VOCW.M
Calibration Table Last Updated: Thu Mar 20 09:19:57 2008



Method Name: C:\HPCHEM\1\METHODS\T318VOCW.M
Calibration Table Last Updated: Thu Mar 20 09:19:57 2008



Method Name: C:\HPCHEM\1\METHODS\T318VOCW.M
Calibration Table Last Updated: Thu Mar 20 09:19:57 2008



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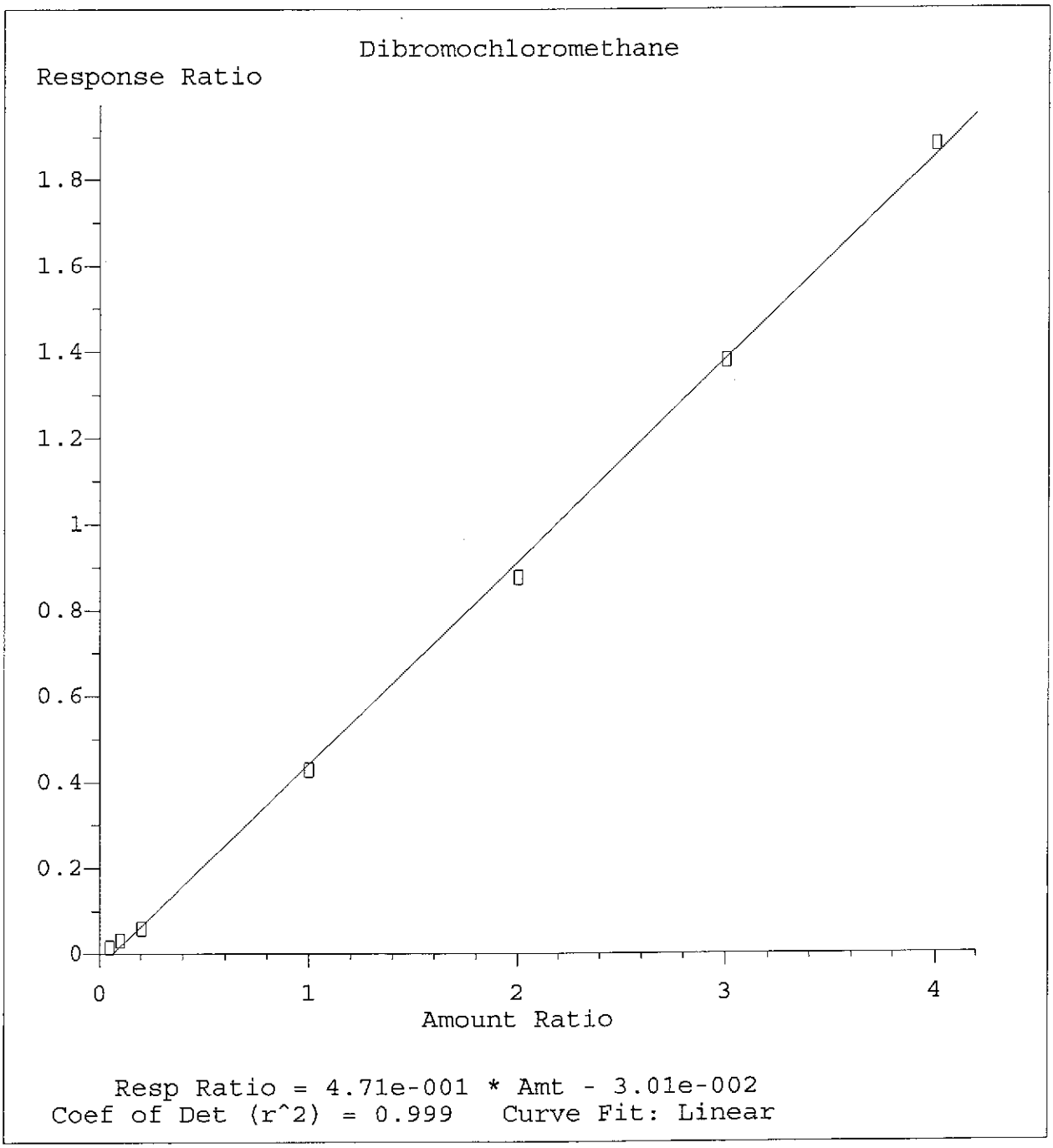
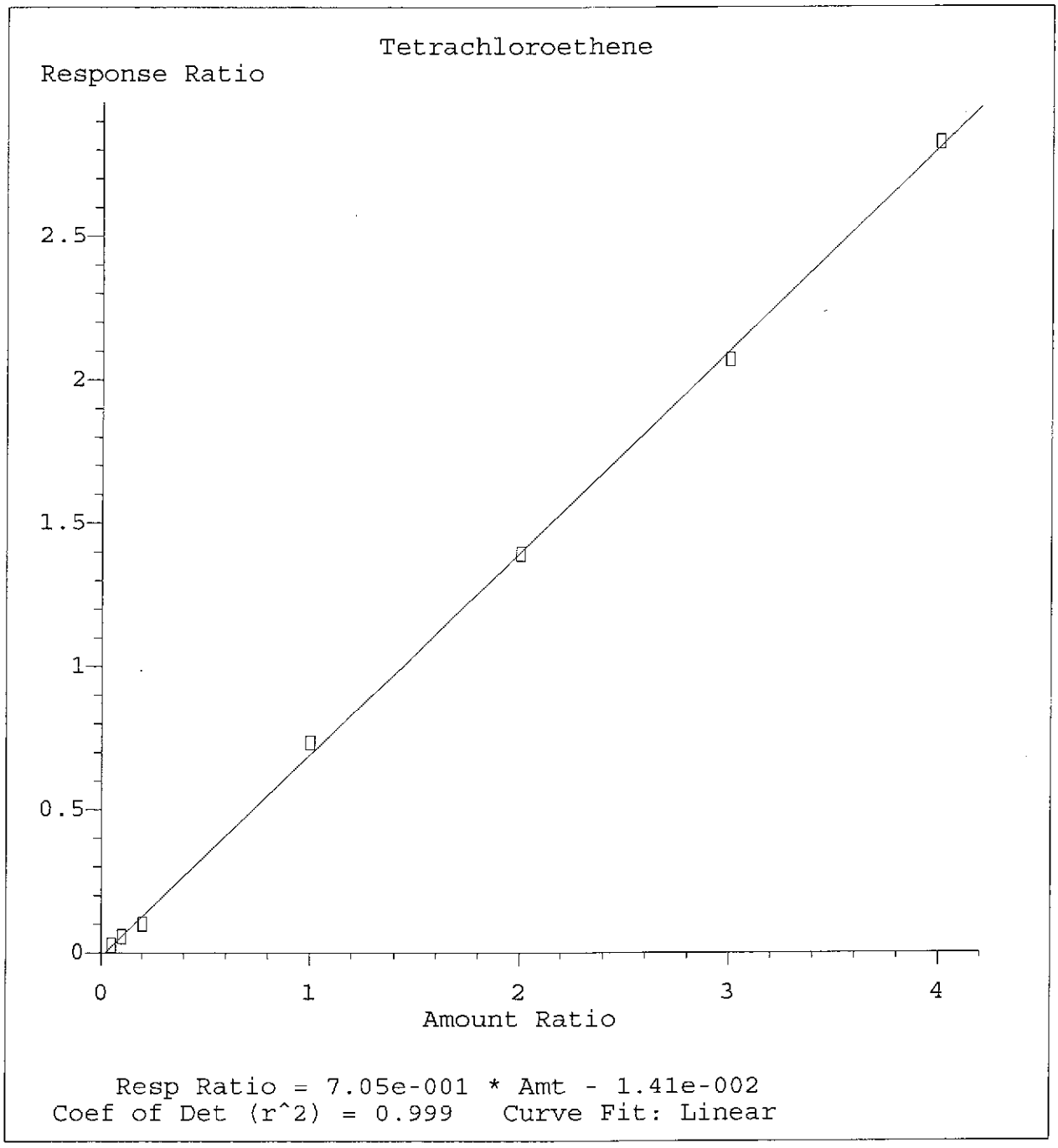
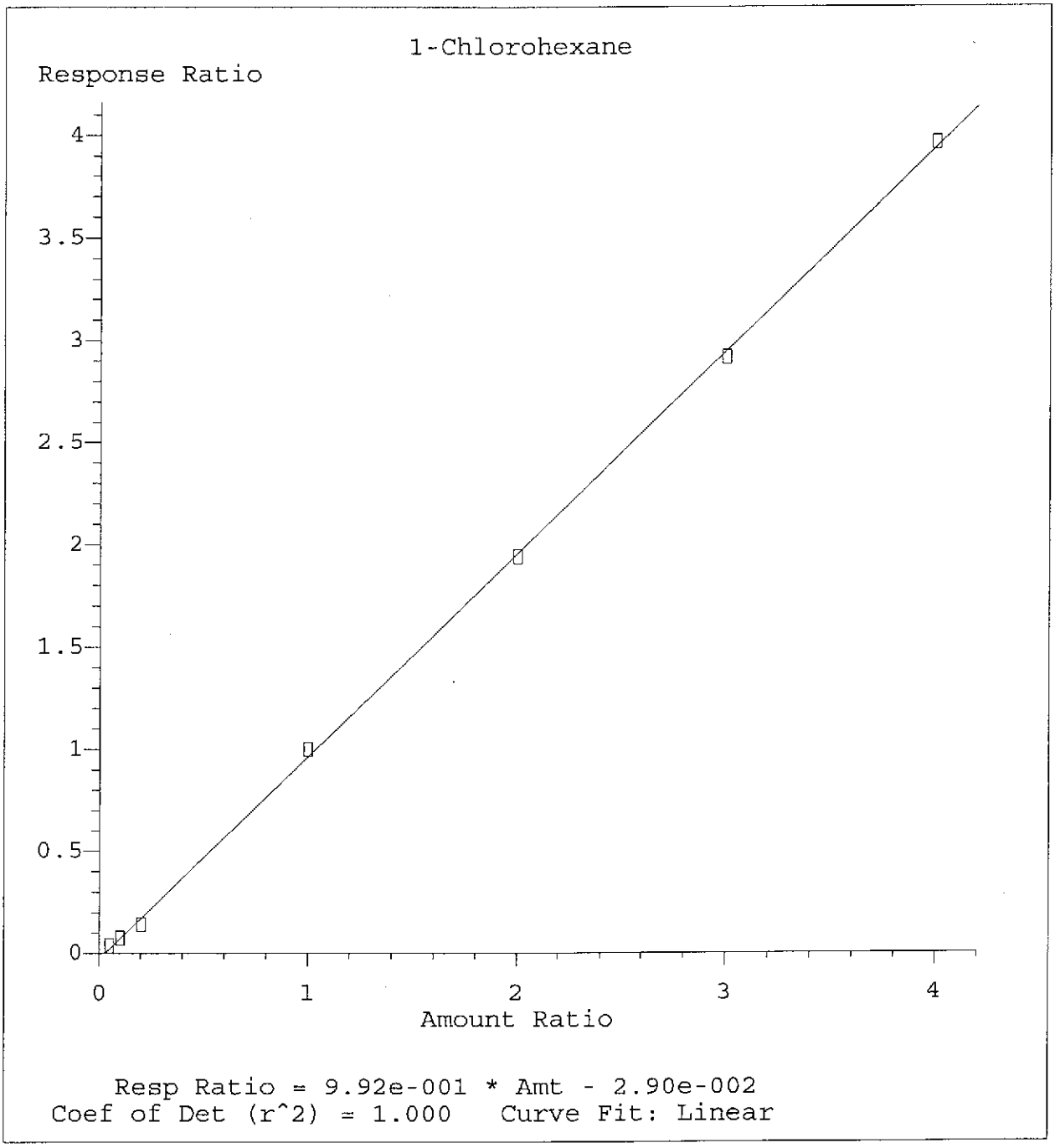


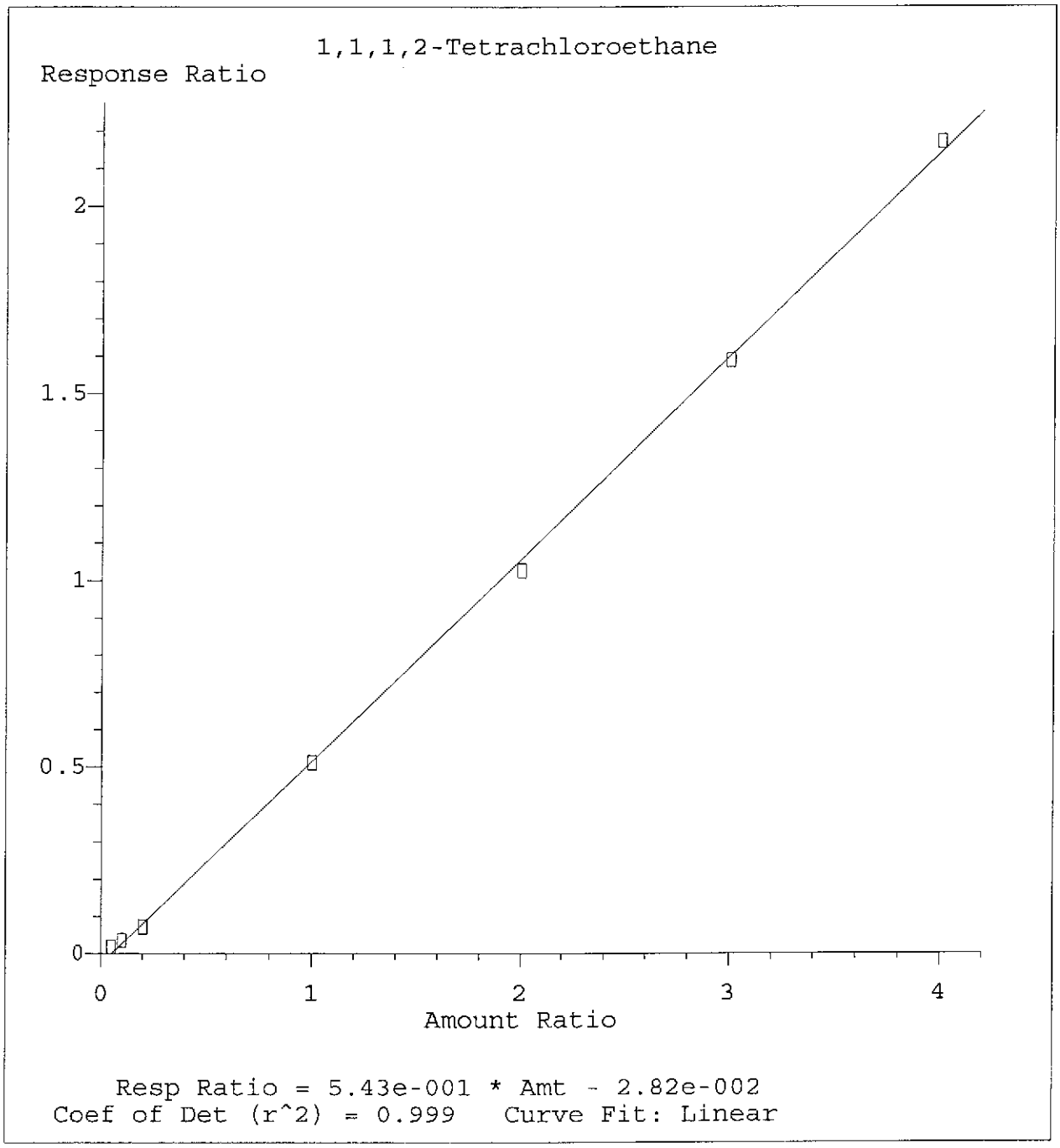
Method Name: C:\HPCHEM\1\METHODS\T318VOCW.M
Calibration Table Last Updated: Thu Mar 20 09:19:57 2008



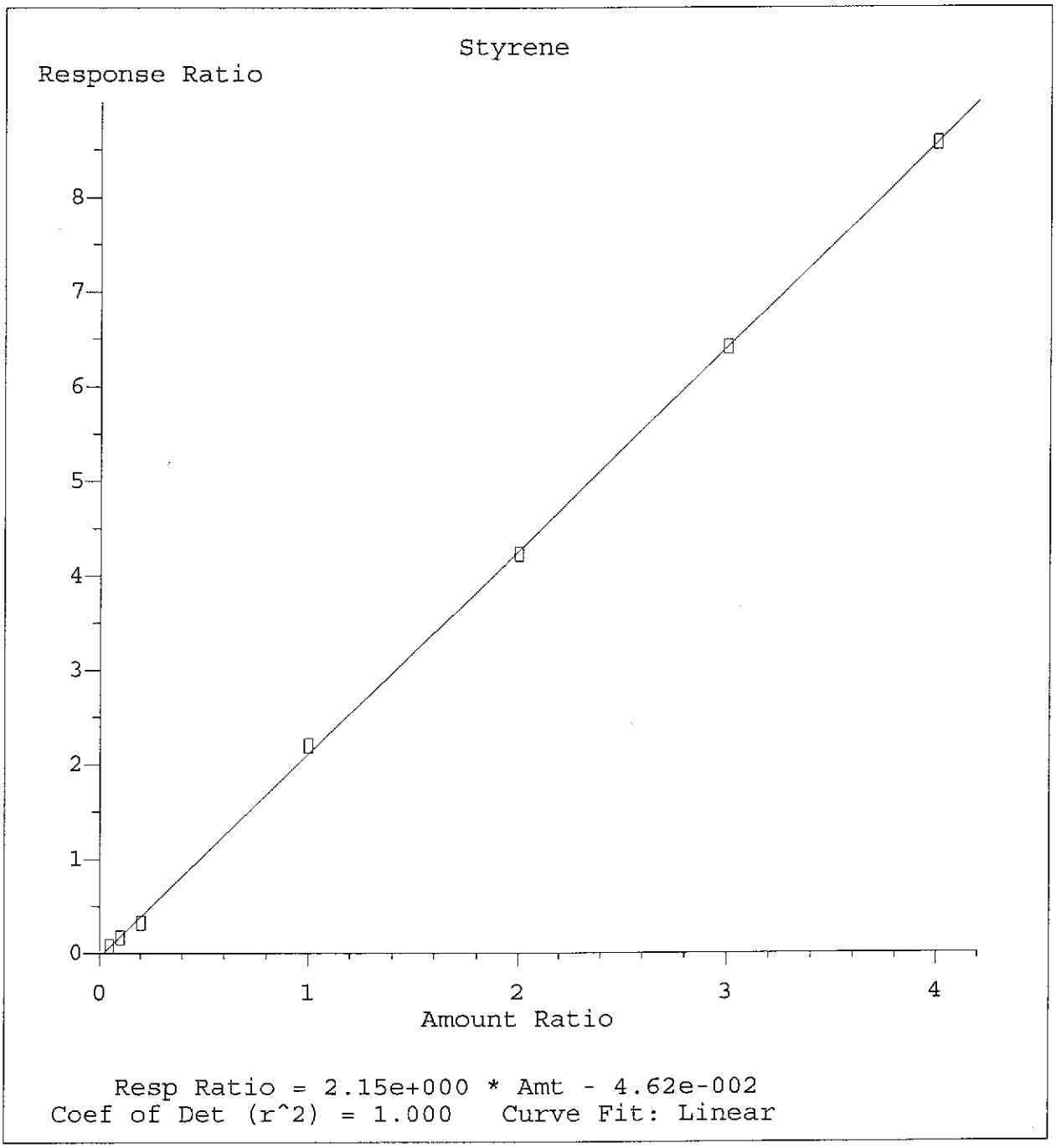
Method Name: C:\HPCHEM\1\METHODS\T318VOCW.M
Calibration Table Last Updated: Thu Mar 20 09:19:57 2008



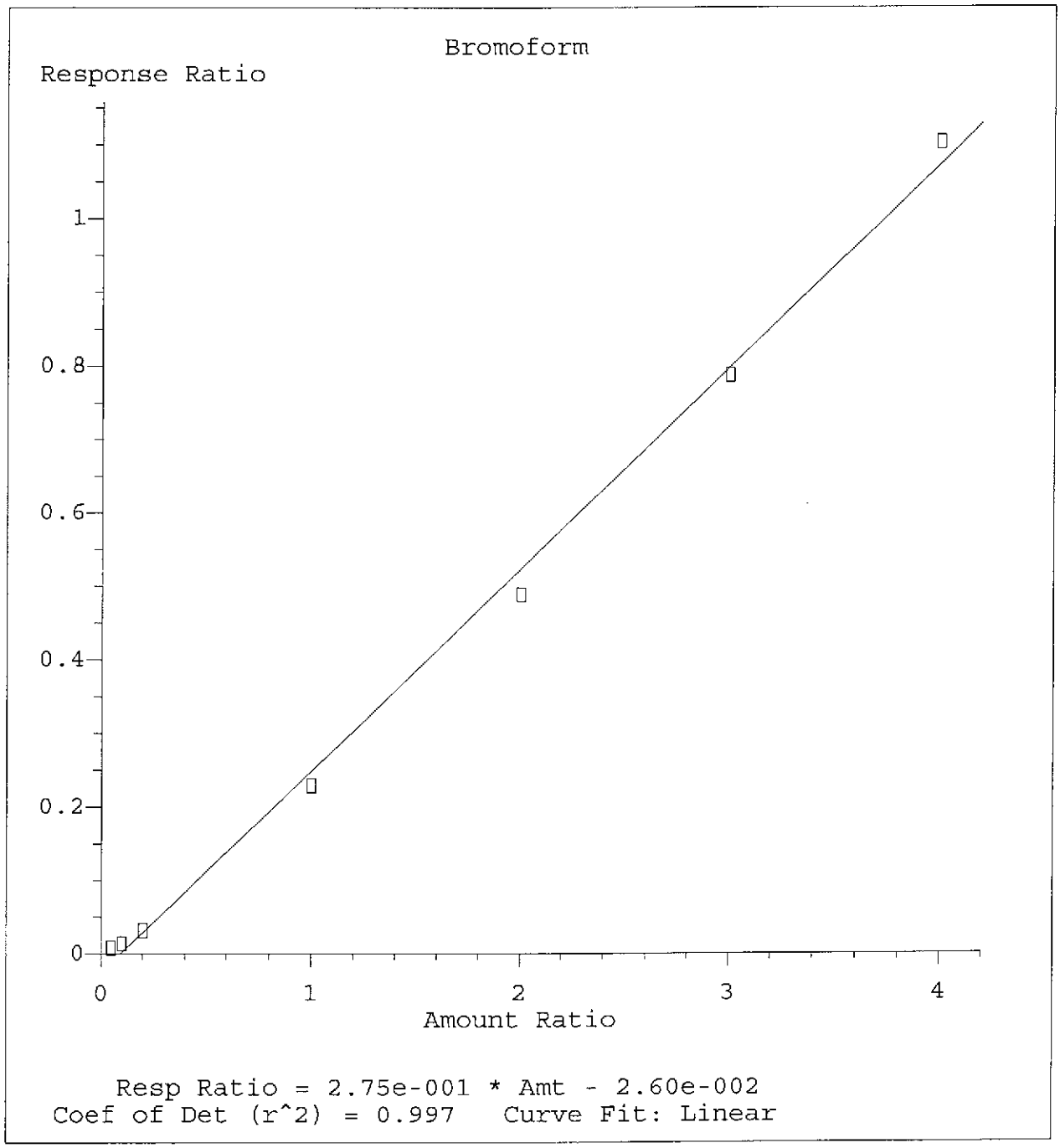
Method Name: C:\HPCHEM\1\METHODS\T318VOCW.M
Calibration Table Last Updated: Thu Mar 20 09:19:57 2008



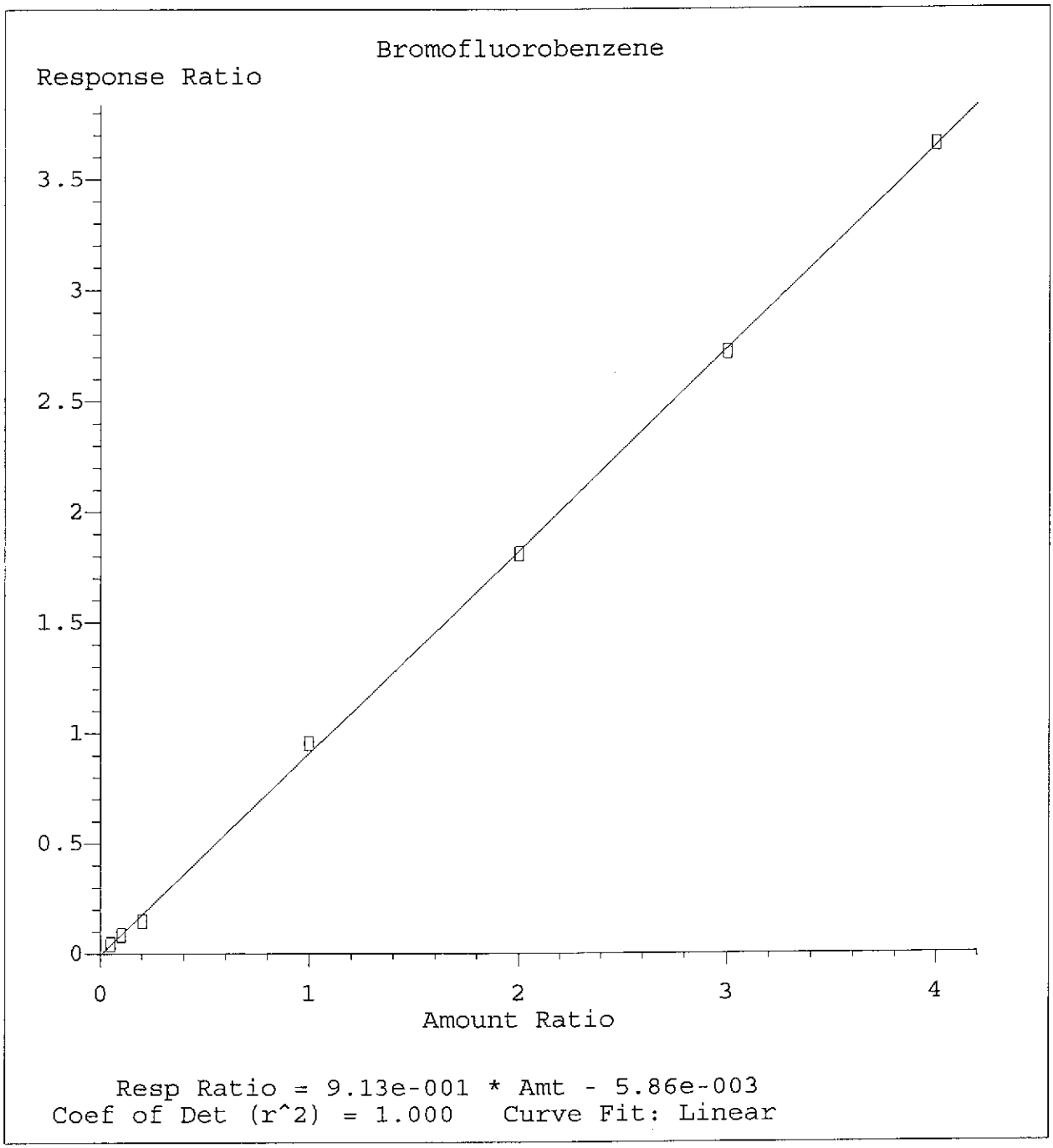
Method Name: C:\HPCHEM\1\METHODS\T318VOCW.M
Calibration Table Last Updated: Thu Mar 20 09:19:57 2008



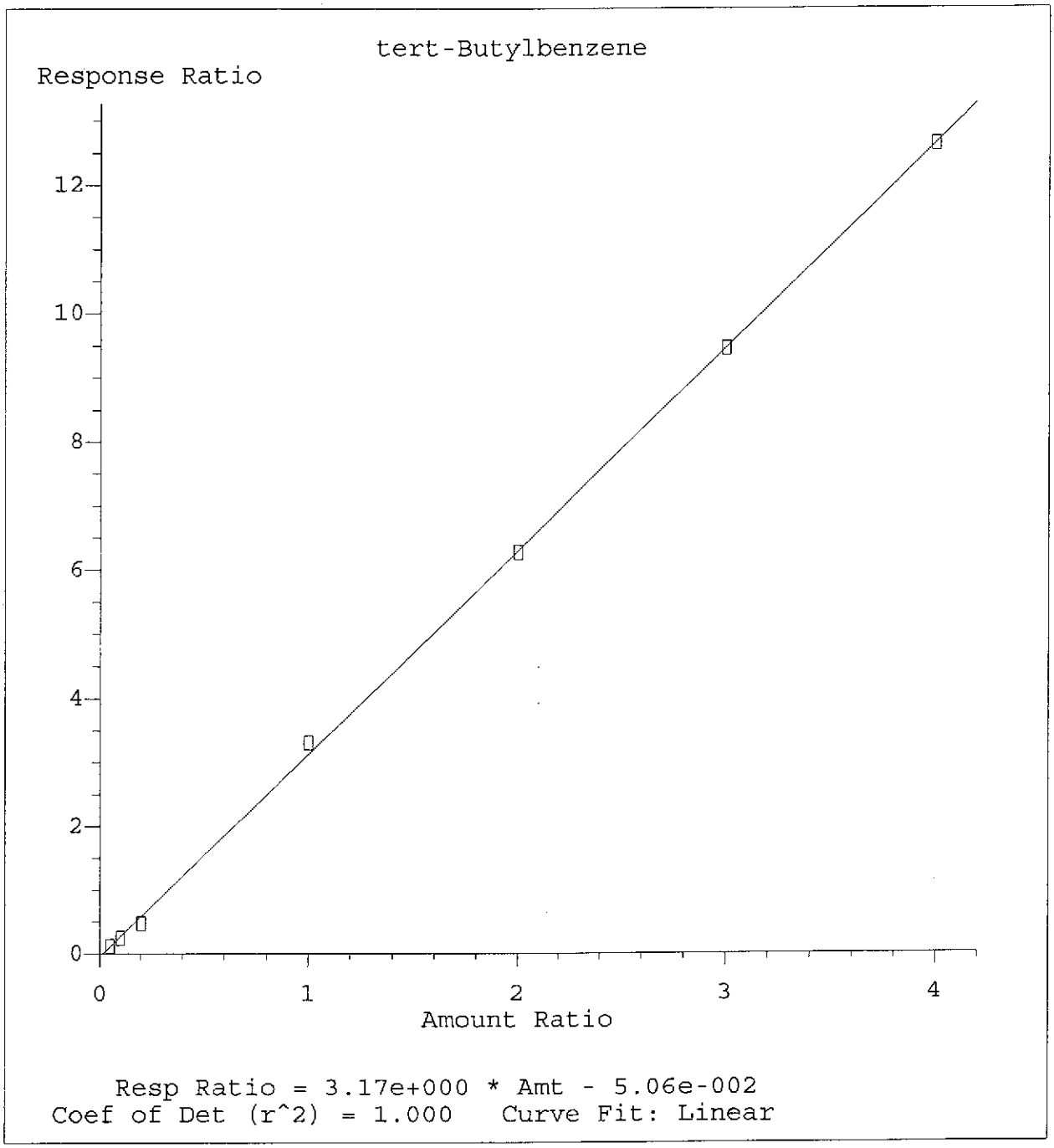
Method Name: C:\HPCHEM\1\METHODS\T318VOCW.M
Calibration Table Last Updated: Thu Mar 20 09:19:57 2008



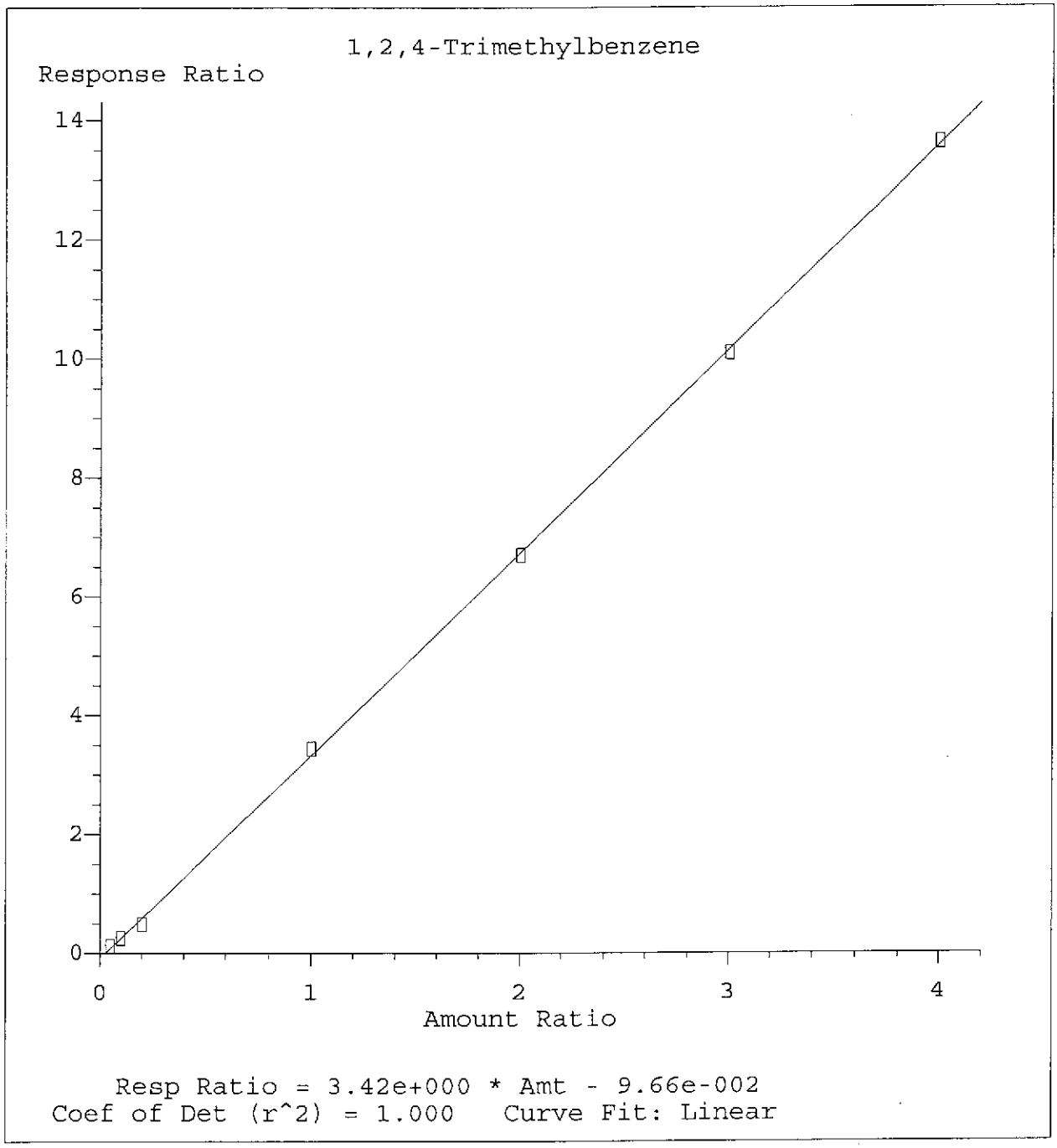
Method Name: C:\HPCHEM\1\METHODS\T318VOCW.M
Calibration Table Last Updated: Thu Mar 20 09:19:57 2008



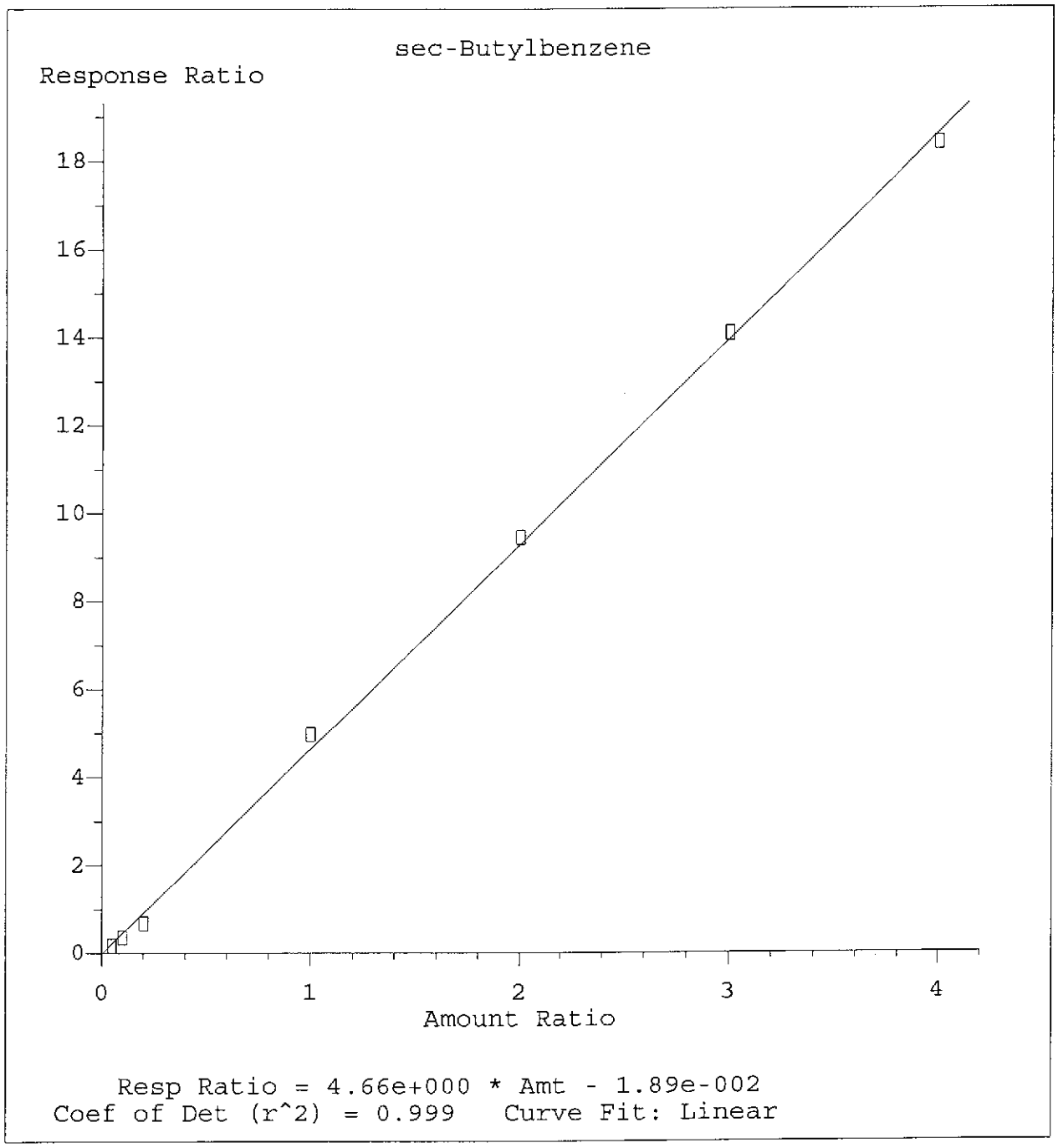
Method Name: C:\HPCHEM\1\METHODS\T318VOCW.M
Calibration Table Last Updated: Thu Mar 20 09:19:57 2008



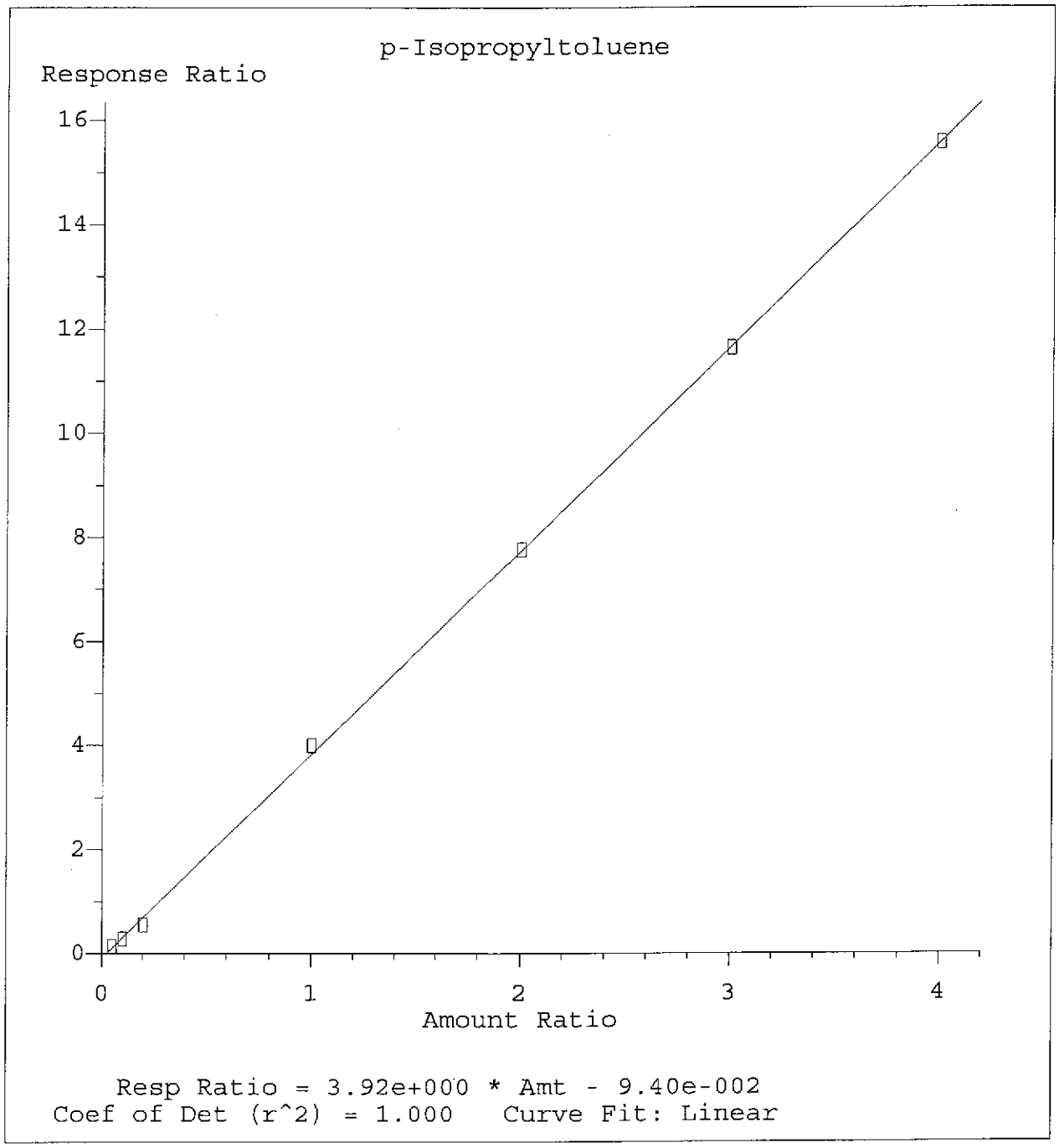
Method Name: C:\HPCHEM\1\METHODS\T318VOCW.M
Calibration Table Last Updated: Thu Mar 20 09:19:57 2008



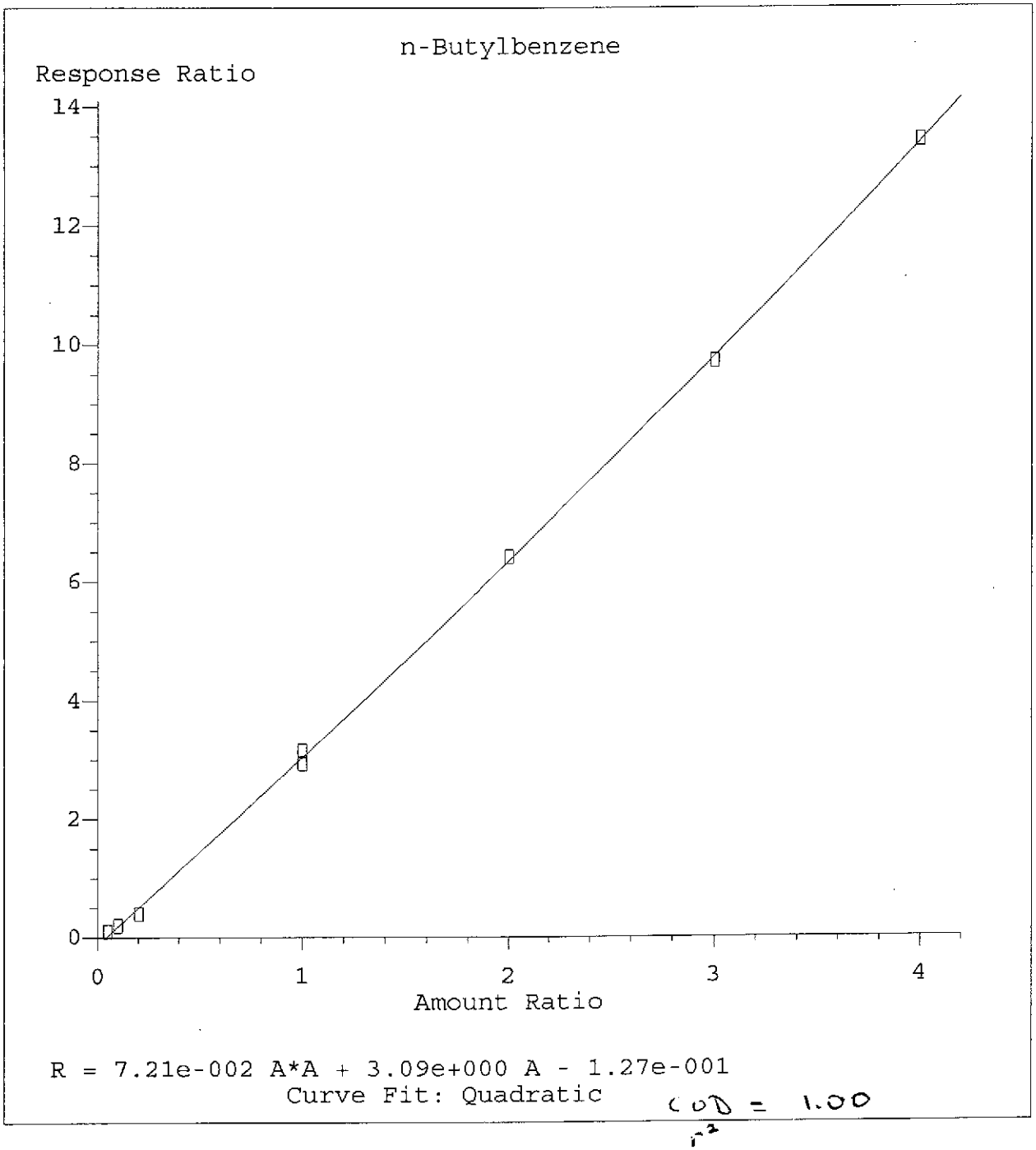
Method Name: C:\HPCHEM\1\METHODS\T318VOCW.M
Calibration Table Last Updated: Thu Mar 20 09:19:57 2008



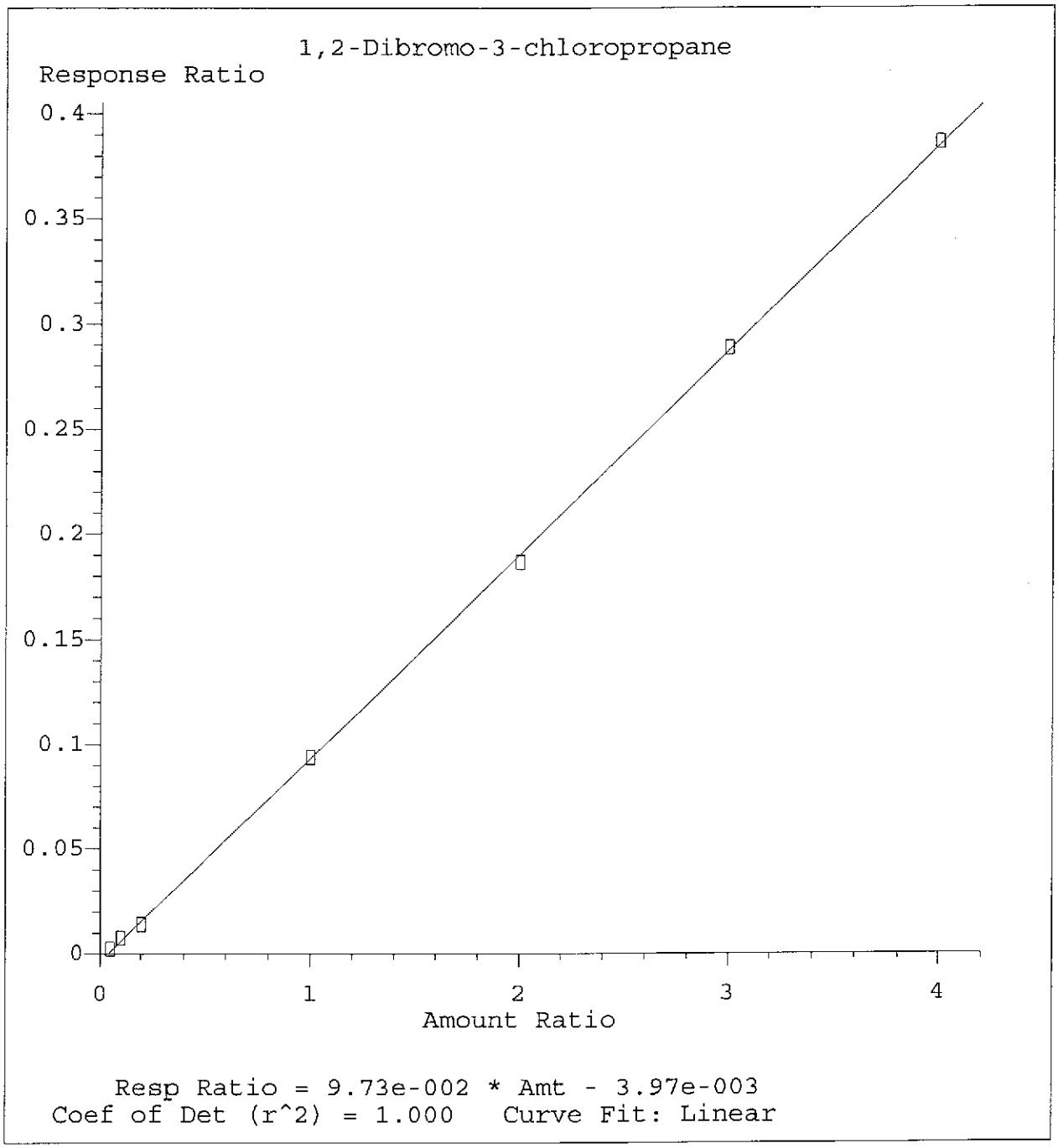
Method Name: C:\HPCHEM\1\METHODS\T318VOCW.M
Calibration Table Last Updated: Thu Mar 20 09:19:57 2008



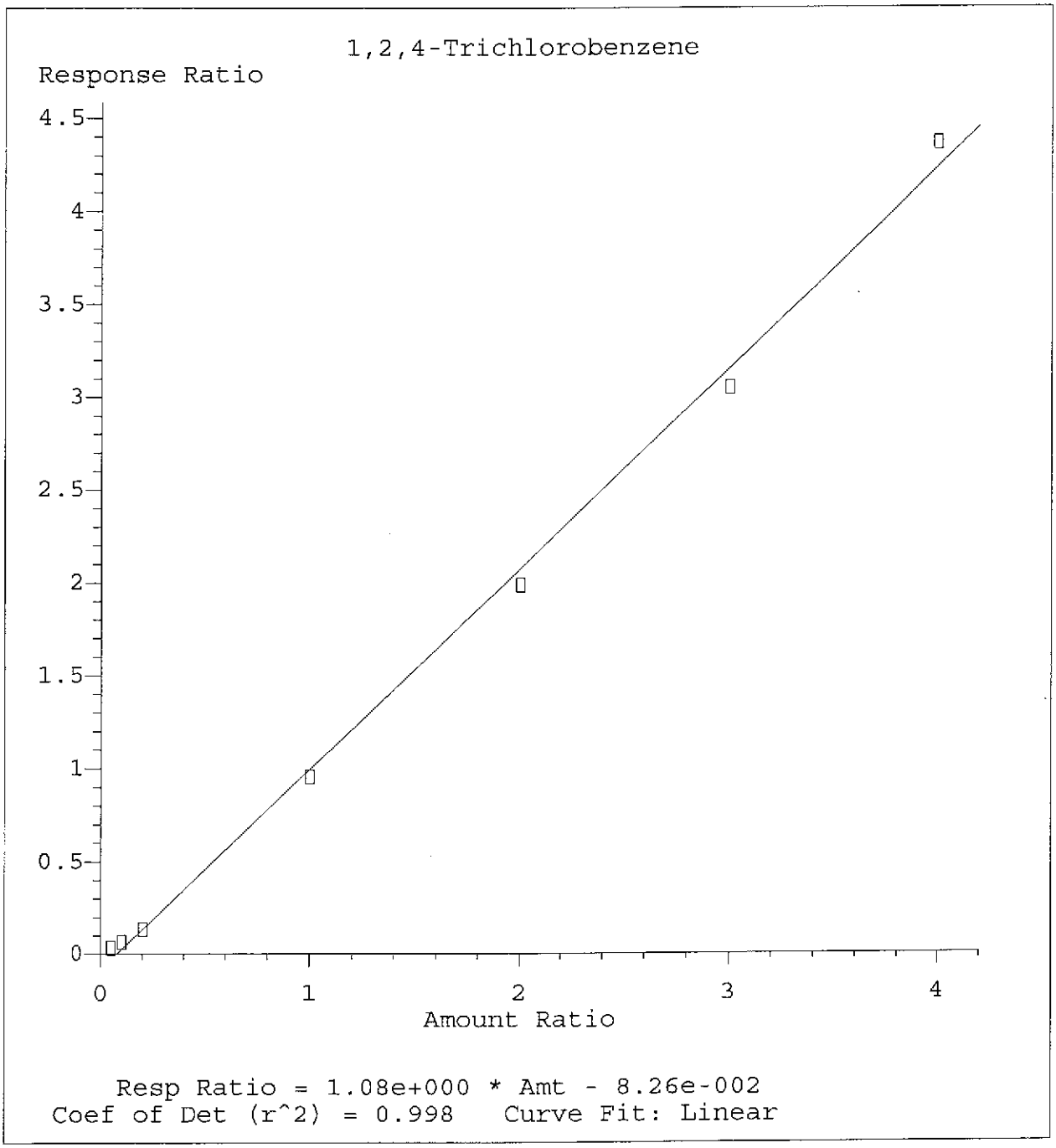
Method Name: C:\HPCHEM\1\METHODS\T318VOCW.M
Calibration Table Last Updated: Thu Mar 20 09:19:57 2008



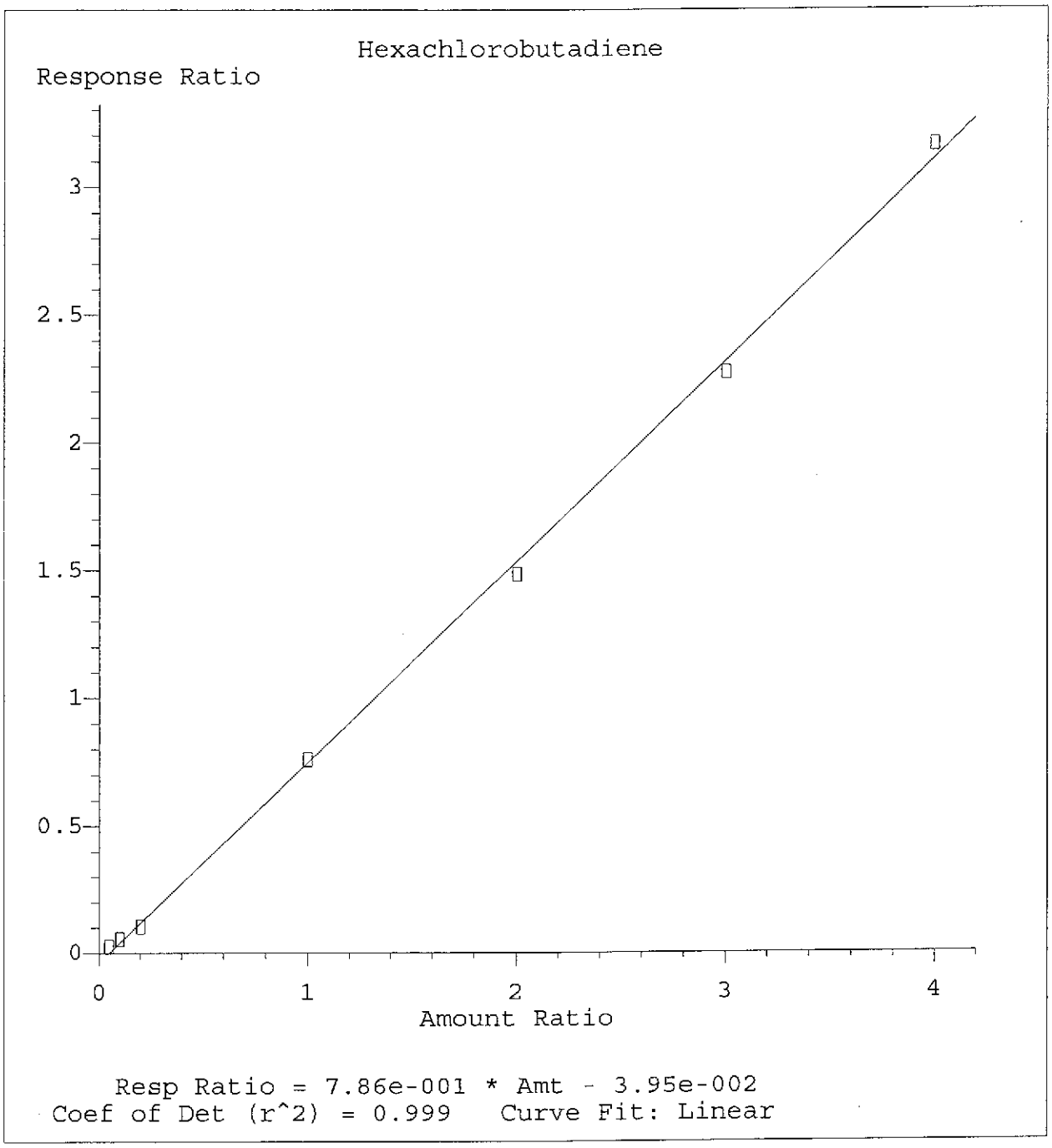
Method Name: C:\HPCHEM\1\METHODS\T318VOCW.M
Calibration Table Last Updated: Mon Mar 24 11:53:24 2008



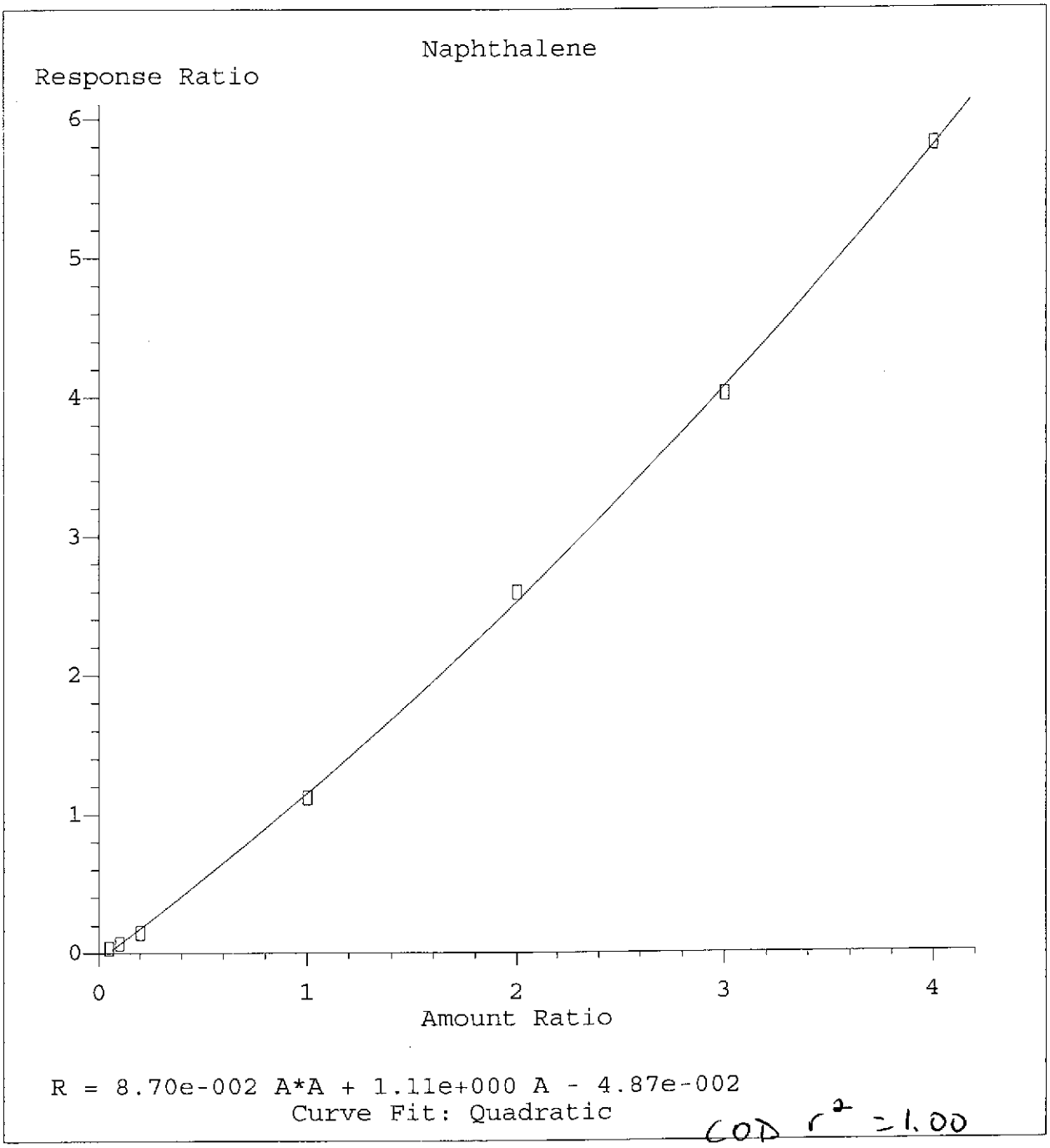
Method Name: C:\HPCHEM\1\METHODS\T318VOCW.M
Calibration Table Last Updated: Thu Mar 20 09:19:57 2008



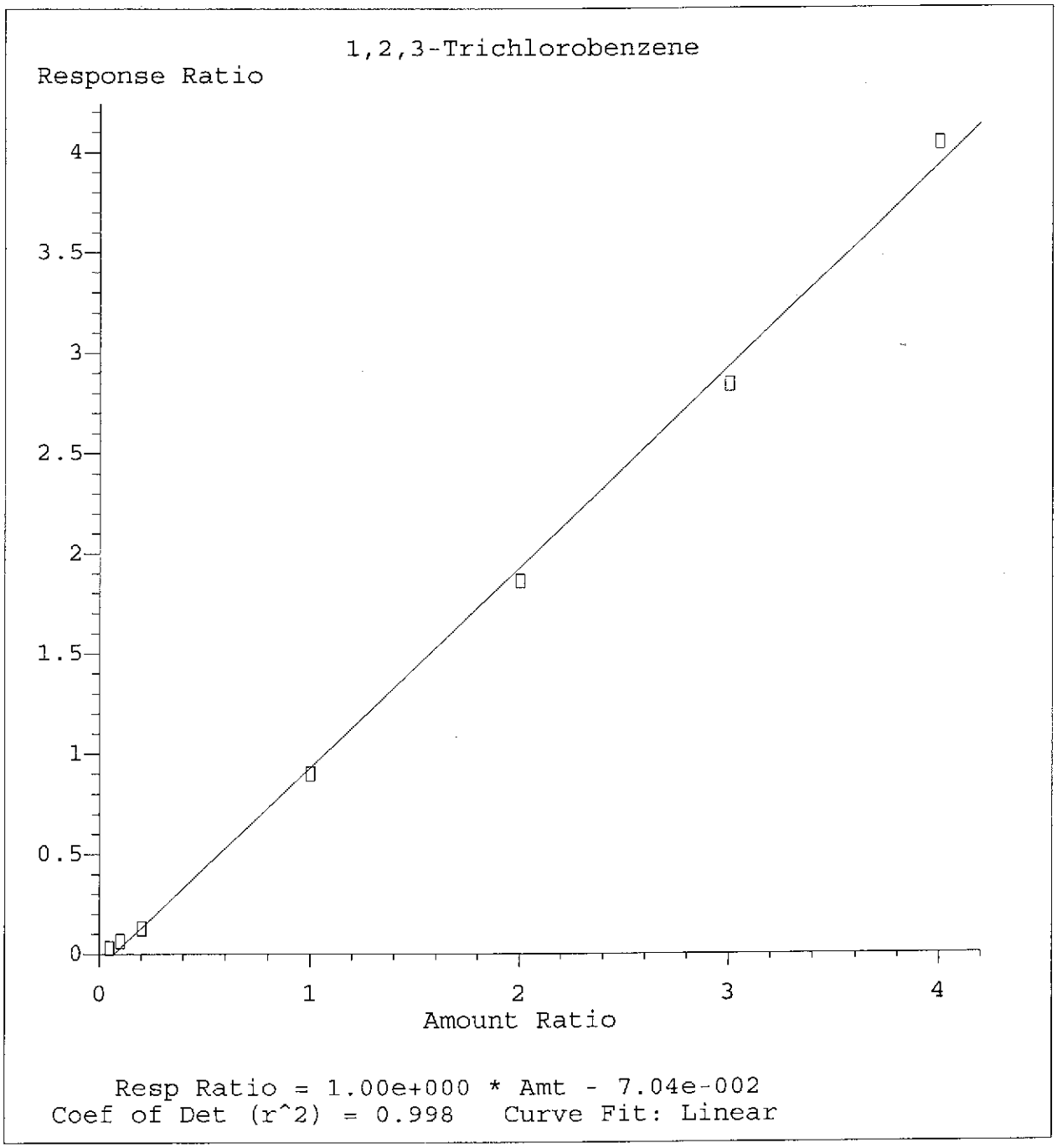
Method Name: C:\HPCHEM\1\METHODS\T318VOCW.M
Calibration Table Last Updated: Thu Mar 20 09:19:57 2008



Method Name: C:\HPCHEM\1\METHODS\T318VOCW.M
Calibration Table Last Updated: Thu Mar 20 09:19:57 2008



Method Name: C:\HPCHEM\1\METHODS\T318VOCW.M
Calibration Table Last Updated: Thu Mar 20 09:19:57 2008



Method Name: C:\HPCHEM\1\METHODS\T318VOCW.M
Calibration Table Last Updated: Thu Mar 20 09:19:57 2008

AFCEE
ORGANIC ANALYSES DATA SHEET 3
INITIAL MULTIPOINT CALIBRATION-GC/MS ANALYSIS

Analytical Method: 8260B

AAB #:

Lab Name: Life Science Laboratories, Inc.

Contract #:

Instrument ID: HP5970 GCMS#2

Date of Initial Calibration: 24-MAR-08

Initial Calibration ID: 1212

Concentration Units (ug/L or mg/kg): ug/L

SEE ATTACHED

Comments:

AFCEE FORM O-3

Response Factor Report #2MS12

Method : C:\HPCHEM\1\METHODS\M324VOCW.M (RTE Integrator)
Title : VOC's w/Restek RTX-502.2, 0.53mm x 105m, 3.0 df
Last Update : Mon Mar 31 11:53:16 2008
Response via : Initial Calibration

ICAL #1212

Calibration Files
0.5 =M4663.D 1.0 =M4664.D 2.0 =M4665.D
10 =M4666.D 20 =M4667.D 30 =M4668.D

		Compound	0.5	1.0	2.0	10	20	30	Avg	%RSD
1)	I	Fluorobenzene	ISTD							
2)		Dichlorodifluoromet	0.648	0.541	0.579	0.875	0.777	0.777	0.711	17.26
3)	P	Chloromethane	0.266	0.224	0.226	0.291	0.260	0.264	0.257	9.25
4)	CP	Vinyl chloride	0.154	0.174	0.186	0.276	0.247	0.254	0.221	21.80
5)		Bromomethane	0.227	0.183	0.182	0.262	0.246	0.258	0.232	15.69
6)		Chloroethane	0.088	0.046	0.127	0.180	0.161	0.164	0.133	36.99
7)		Trichlorofluorometh	0.578	0.487	0.529	0.761	0.713	0.711	0.642	16.86
8)		Acetone	0.030	0.029	0.027	0.026	0.024	0.024	0.026#	9.03
9)		Acrolein	0.006	0.005	0.006	0.007	0.006	0.006	0.006#	6.58
10)	CPM	1,1-Dichloroethene	0.175	0.168	0.176	0.241	0.236	0.237	0.211	16.89
11)		Methyl iodide	0.225	0.298	0.358	0.583	0.616	0.631	0.480	37.36
12)		1,1,2-Trichloro-1,2	0.477	0.510	0.509	0.699	0.667	0.656	0.596	15.60
13)		Methyl acetate	0.056	0.064	0.072	0.071	0.075	0.075	0.070	10.74
14)		Acrylonitrile	0.014	0.017	0.020	0.021	0.022	0.022	0.020#	15.46
15)		Methylene chloride	0.396	0.315	0.269	0.272	0.269	0.267	0.294	16.36
16)		Carbon disulfide	0.663	0.592	0.585	0.794	0.762	0.776	0.709	13.22
17)		trans-1,2-Dichloroe	0.239	0.238	0.253	0.324	0.327	0.327	0.292	15.89
18)		Methyl tert-Butyl e	0.330	0.352	0.335	0.368	0.374	0.366	0.358	5.46
19)	P	1,1-Dichloroethane	0.474	0.467	0.480	0.583	0.596	0.596	0.543	12.08
20)		Vinyl acetate	0.183	0.195	0.192	0.220	0.241	0.229	0.213	10.52
21)		2-Butanone	0.037	0.040	0.034	0.046	0.045	0.045	0.042#	11.89
22)		cis-1,2-Dichloroeth	0.255	0.276	0.273	0.333	0.335	0.334	0.306	12.01
23)		Bromochloromethane	0.143	0.164	0.158	0.189	0.193	0.189	0.176	11.68
24)	CP	Chloroform	0.642	0.614	0.601	0.712	0.726	0.717	0.676	8.04
25)		2,2-Dichloropropane	0.329	0.352	0.349	0.465	0.473	0.460	0.413	15.87
26)		Cyclohexane	0.261	0.279	0.274	0.384	0.373	0.371	0.331	17.02
27)	S	1,2-Dichloroethane-	0.226	0.233	0.217	0.233	0.236	0.220	0.227	3.40
28)		1,2-Dichloroethane	0.255	0.255	0.237	0.280	0.290	0.281	0.269	7.44
29)		1,1,1-Trichloroetha	0.408	0.423	0.429	0.578	0.585	0.582	0.514	17.16
30)		1,1-Dichloropropene	0.316	0.335	0.336	0.469	0.470	0.469	0.410	18.66
31)		Carbon tetrachlorid	0.387	0.416	0.417	0.593	0.601	0.598	0.517	20.05
32)	M	Benzene	0.722	0.684	0.687	0.860	0.853	0.849	0.789	10.95
33)	M	Trichloroethene	0.362	0.358	0.360	0.453	0.451	0.442	0.410	11.45
34)		Dibromomethane	0.257	0.280	0.260	0.296	0.307	0.289	0.284	6.88
35)		Methylcyclohexane	0.239	0.261	0.264	0.382	0.380	0.377	0.327	20.72
36)	CP	1,2-Dichloropropane	0.266	0.273	0.271	0.317	0.323	0.314	0.298	8.97
37)		Bromodichloromethan	0.576	0.611	0.593	0.737	0.753	0.723	0.675	11.49
38)		2-Chloroethylvinyl	0.063	0.062	0.066	0.073	0.077	0.077	0.071	10.23
39)		4-Methyl-2-pentanon	0.095	0.076	0.103	0.090	0.108	0.093	0.097	13.34
40)		cis-1,3-Dichloropro	0.339	0.360	0.352	0.454	0.472	0.458	0.416	14.93
41)	S	Toluene-d8	0.698	0.684	0.670	0.851	0.866	0.836	0.780	11.60
42)	CPM	Toluene	0.438	0.421	0.429	0.556	0.554	0.546	0.501	13.35
43)		trans-1,3-Dichlorop	0.215	0.227	0.230	0.298	0.317	0.314	0.275	17.71

(#) = Out of Range ### Number of calibration levels exceeded format ###

Response Factor Report #2MS12

Method : C:\HPCHEM\1\METHODS\M324VOCW.M (RTE Integrator)
Title : VOC's w/Restek RTX-502.2, 0.53mm x 105m, 3.0 df
Last Update : Mon Mar 31 11:53:16 2008
Response via : Initial Calibration

Calibration Files
0.5 =M4663.D 1.0 =M4664.D 2.0 =M4665.D
10 =M4666.D 20 =M4667.D 30 =M4668.D

		Compound	0.5	1.0	2.0	10	20	30	Avg	%RSD
44)		1,1,2-Trichloroetha	0.164	0.182	0.172	0.207	0.210	0.205	0.193	10.18
45)		2-Hexanone	0.064	0.065	0.064	0.081	0.082	0.083	0.075	13.38
46)	I	Chlorobenzene-d5	----------	----------	----------	ISTD	----------	----------	----------	
47)		1,2-Dibromoethane	0.549	0.614	0.579	0.680	0.715	0.694	0.651	10.79
48)		1,3-Dichloropropane	0.568	0.609	0.566	0.675	0.675	0.658	0.634	8.30
49)		Dibromochloromethan	0.828	0.851	0.867	1.064	1.099	1.060	0.981	12.77
50)		Tetrachloroethene	0.739	0.783	0.798	1.022	0.992	0.975	0.900	13.41
51)		1-Chlorohexane	0.405	0.484	0.478	0.715	0.706	0.705	0.604	23.35
52)		1,1,1,2-Tetrachloro	0.661	0.662	0.634	0.759	0.748	0.731	0.707	7.47
53)	PM	Chlorobenzene	1.221	1.193	1.164	1.382	1.337	1.285	1.268	6.20
54)	CP	Ethylbenzene	1.586	1.489	1.545	1.858	1.813	1.775	1.687	8.56
55)		(m+p)-Xylene	0.480	0.513	0.502	0.678	0.681	0.682	0.605	16.60
56)		o-Xylene	0.479	0.481	0.510	0.679	0.700	0.686	0.608	18.32
57)		Styrene	0.776	0.801	0.831	1.115	1.149	1.142	0.999	18.55
58)	P	Bromoform	0.414	0.464	0.479	0.591	0.625	0.609	0.546	16.60
59)	S	Bromofluorobenzene	1.079	1.151	1.063	1.253	1.314	1.246	1.191	8.00
60)	I	1,4-Dichlorobenzene-d	----------	----------	----------	ISTD	----------	----------	----------	
61)		trans-1,4-Dichloro-	0.032	0.056	0.054	0.070	0.075	0.078	0.064	28.22
62)	P	1,1,2,2-Tetrachloro	1.003	1.017	0.951	0.968	0.979	0.930	0.970	3.29
63)		Isopropylbenzene	2.361	2.349	2.328	2.941	2.824	2.761	2.622	10.07
64)		1,2,3-Trichloroprop	0.541	0.676	0.491	0.633	0.538	0.595	0.585	11.04
65)		Bromobenzene	1.043	1.035	1.013	1.087	1.050	1.025	1.042	2.24
66)		n-Propylbenzene	2.554	2.462	2.446	3.267	3.221	3.254	2.928	14.15
67)		2-Chlorotoluene	2.519	2.528	2.413	2.569	2.533	2.677	2.518	3.87
68)		4-Chlorotoluene	2.067	1.946	1.884	2.569	2.480	2.255	2.250	12.86
69)		1,3,5-Trimethylbenz	1.372	1.428	1.388	1.814	1.867	1.874	1.663	15.15
70)		tert-Butylbenzene	1.447	1.472	1.488	1.982	2.006	2.033	1.785	16.61
71)		1,2,4-Trimethylbenz	1.198	1.251	1.184	1.595	1.655	1.670	1.466	16.52
72)		sec-Butylbenzene	1.950	1.941	1.985	2.796	2.791	2.833	2.451	18.82
73)		1,3-Dichlorobenzene	1.451	1.465	1.386	1.671	1.681	1.639	1.564	7.97
74)		p-Isopropyltoluene	1.328	1.309	1.327	1.906	1.967	2.016	1.702	21.13
75)		1,4-Dichlorobenzene	1.338	1.261	1.272	1.483	1.493	1.491	1.408	8.05
76)		n-Butylbenzene	1.024	1.067	1.052	1.577	1.639	1.717	1.403	23.99
77)		1,2-Dichlorobenzene	1.331	1.369	1.227	1.482	1.514	1.406	1.402	7.29
78)		1,2-Dibromo-3-chlor	0.132	0.150	0.153	0.160	0.178	0.171	0.160	10.19
79)		1,2,4-Trichlorobenz	0.480	0.472	0.451	0.614	0.657	0.646	0.573	17.66
80)		Hexachlorobutadiene	0.578	0.530	0.543	0.725	0.706	0.711	0.644	13.86
81)		Naphthalene	0.414	0.382	0.340	0.367	0.415	0.419	0.399	9.69
82)		1,2,3-Trichlorobenz	0.327	0.377	0.358	0.441	0.474	0.477	0.422	16.08

(#) = Out of Range ### Number of calibration levels exceeded format ###

Response Factor Report #2MS12

Method : C:\HPCHEM\1\METHODS\M324VOCW.M (RTE Integrator)
Title : VOC's w/Restek RTX-502.2, 0.53mm x 105m, 3.0 df
Last Update : Mon Mar 31 11:55:32 2008
Response via : Initial Calibration

Calibration Files
40 =M4669.D = =
= = =

		Compound	40	Avg	%RSD
1)	I	Fluorobenzene	----------ISTD----------		
2)		Dichlorodifluoromet	0.777		
3)	P	Chloromethane	0.265		
4)	CP	Vinyl chloride	0.256		
5)		Bromomethane	0.269		
6)		Chloroethane	0.164		
7)		Trichlorofluorometh	0.718		
8)		Acetone	0.024		
9)		Acrolein	0.006		
10)	CPM	1,1-Dichloroethene	0.243		
11)		Methyl iodide	0.647		
12)		1,1,2-Trichloro-1,2	0.653		
13)		Methyl acetate	0.078		
14)		Acrylonitrile	0.022		
15)		Methylene chloride	0.272		
16)		Carbon disulfide	0.793		
17)		trans-1,2-Dichloroe	0.339		
18)		Methyl tert-Butyl e	0.381		
19)	P	1,1-Dichloroethane	0.607		
20)		Vinyl acetate	0.230		
21)		2-Butanone	0.046		
22)		cis-1,2-Dichloroeth	0.340		
23)		Bromochloromethane	0.195		
24)	CP	Chloroform	0.717		
25)		2,2-Dichloropropane	0.463		
26)		Cyclohexane	0.375		
27)	S	1,2-Dichloroethane-	0.220		
28)		1,2-Dichloroethane	0.286		
29)		1,1,1-Trichloroetha	0.593		
30)		1,1-Dichloropropene	0.477		
31)		Carbon tetrachlorid	0.606		
32)	M	Benzene	0.866		
33)	M	Trichloroethene	0.444		
34)		Dibromomethane	0.301		
35)		Methylcyclohexane	0.382		
36)	CP	1,2-Dichloropropane	0.323		
37)		Bromodichloromethan	0.732		
38)		2-Chloroethylvinyl	0.080		
39)		4-Methyl-2-pentanon	0.116		
40)		cis-1,3-Dichloropro	0.478		
41)	S	Toluene-d8	0.854		
42)	CPM	Toluene	0.560		
43)		trans-1,3-Dichlorop	0.325		

(#) = Out of Range ### Number of calibration levels exceeded format ###

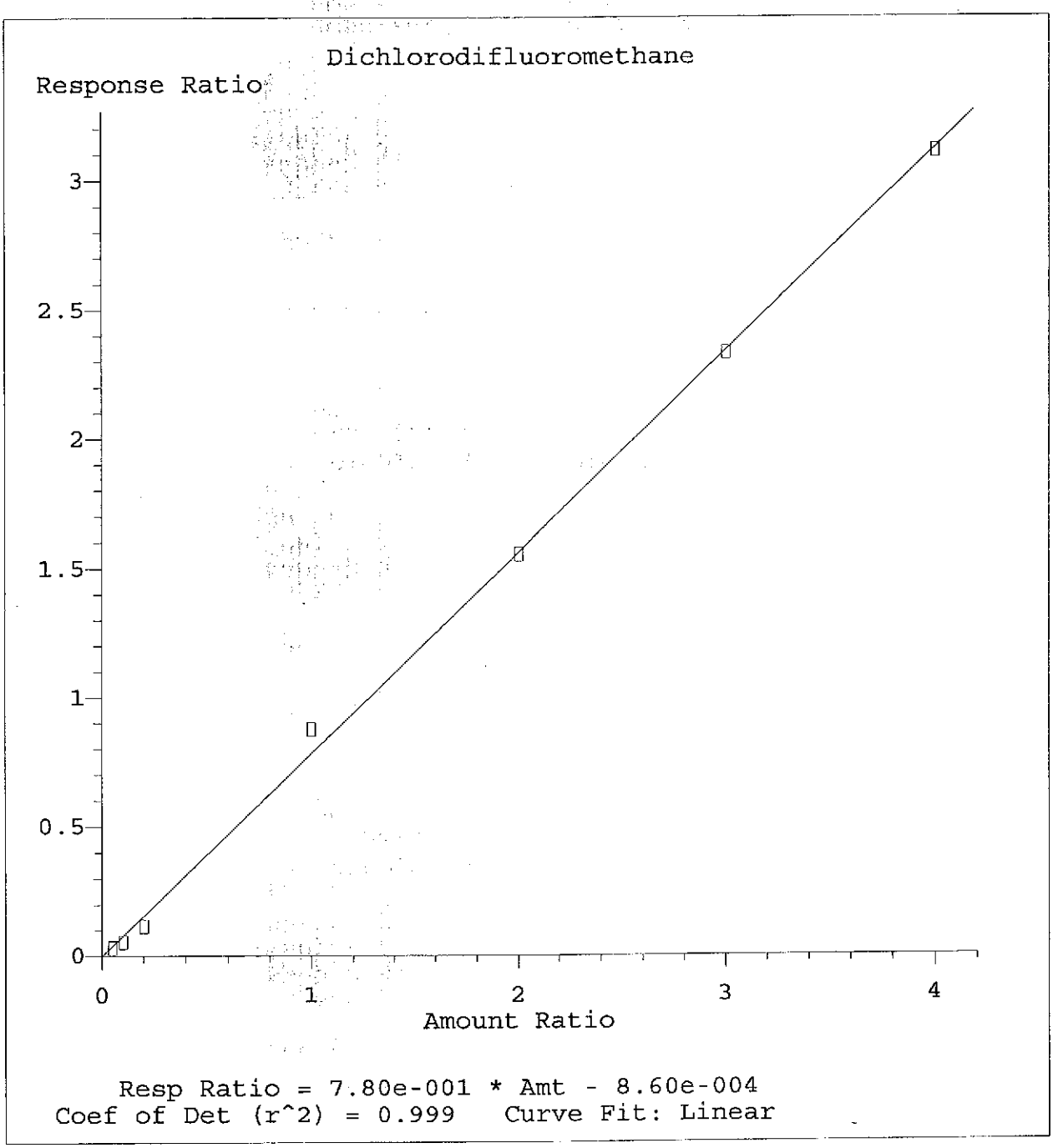
Response Factor Report #2MS12

Method : C:\HPCHEM\1\METHODS\M324VOCW.M (RTE Integrator)
Title : VOC's w/Restek RTX-502.2, 0.53mm x 105m, 3.0 df
Last Update : Mon Mar 31 11:55:32 2008
Response via : Initial Calibration

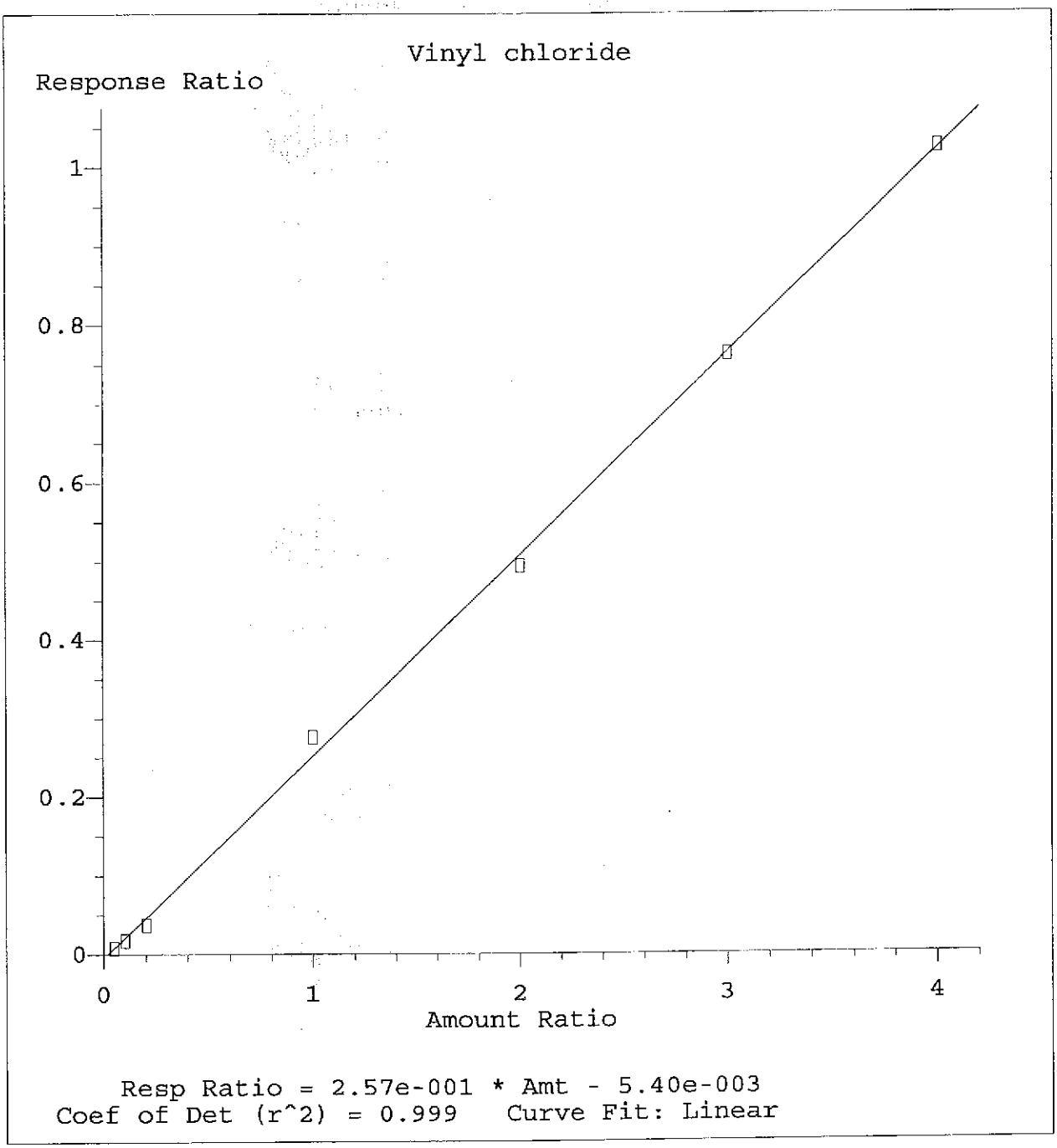
Calibration Files
40 =M4669.D = =
= = =

		Compound	40	Avg	%RSD
44)		1,1,2-Trichloroetha	0.209		
45)		2-Hexanone	0.085		
46)	I	Chlorobenzene-d5	----------ISTD----------		
47)		1,2-Dibromoethane	0.728		
48)		1,3-Dichloropropane	0.689		
49)		Dibromochloromethan	1.099		
50)		Tetrachloroethene	0.992		
51)		1-Chlorohexane	0.732		
52)		1,1,1,2-Tetrachloro	0.754		
53)	PM	Chlorobenzene	1.295		
54)	CP	Ethylbenzene	1.741		
55)		(m+p)-Xylene	0.699		
56)		o-Xylene	0.721		
57)		Styrene	1.180		
58)	P	Bromoform	0.639		
59)	S	Bromofluorobenzene	1.233		
60)	I	1,4-Dichlorobenzene-d	----------ISTD----------		
61)		trans-1,4-Dichloro-	0.085		
62)	P	1,1,2,2-Tetrachloro	0.943		
63)		Isopropylbenzene	2.787		
64)		1,2,3-Trichloroprop	0.623		
65)		Bromobenzene	1.042		
66)		n-Propylbenzene	3.293		
67)		2-Chlorotoluene	2.385		
68)		4-Chlorotoluene	2.546		
69)		1,3,5-Trimethylbenz	1.901		
70)		tert-Butylbenzene	2.064		
71)		1,2,4-Trimethylbenz	1.711		
72)		sec-Butylbenzene	2.862		
73)		1,3-Dichlorobenzene	1.656		
74)		p-Isopropyltoluene	2.063		
75)		1,4-Dichlorobenzene	1.520		
76)		n-Butylbenzene	1.743		
77)		1,2-Dichlorobenzene	1.486		
78)		1,2-Dibromo-3-chlor	0.173		
79)		1,2,4-Trichlorobenz	0.689		
80)		Hexachlorobutadiene	0.716		
81)		Naphthalene	0.456		
82)		1,2,3-Trichlorobenz	0.502		

(#) = Out of Range ### Number of calibration levels exceeded format ###



Method Name: C:\HPCHEM\1\METHODS\M324VOCW.M
Calibration Table Last Updated: Mon Mar 31 11:54:06 2008



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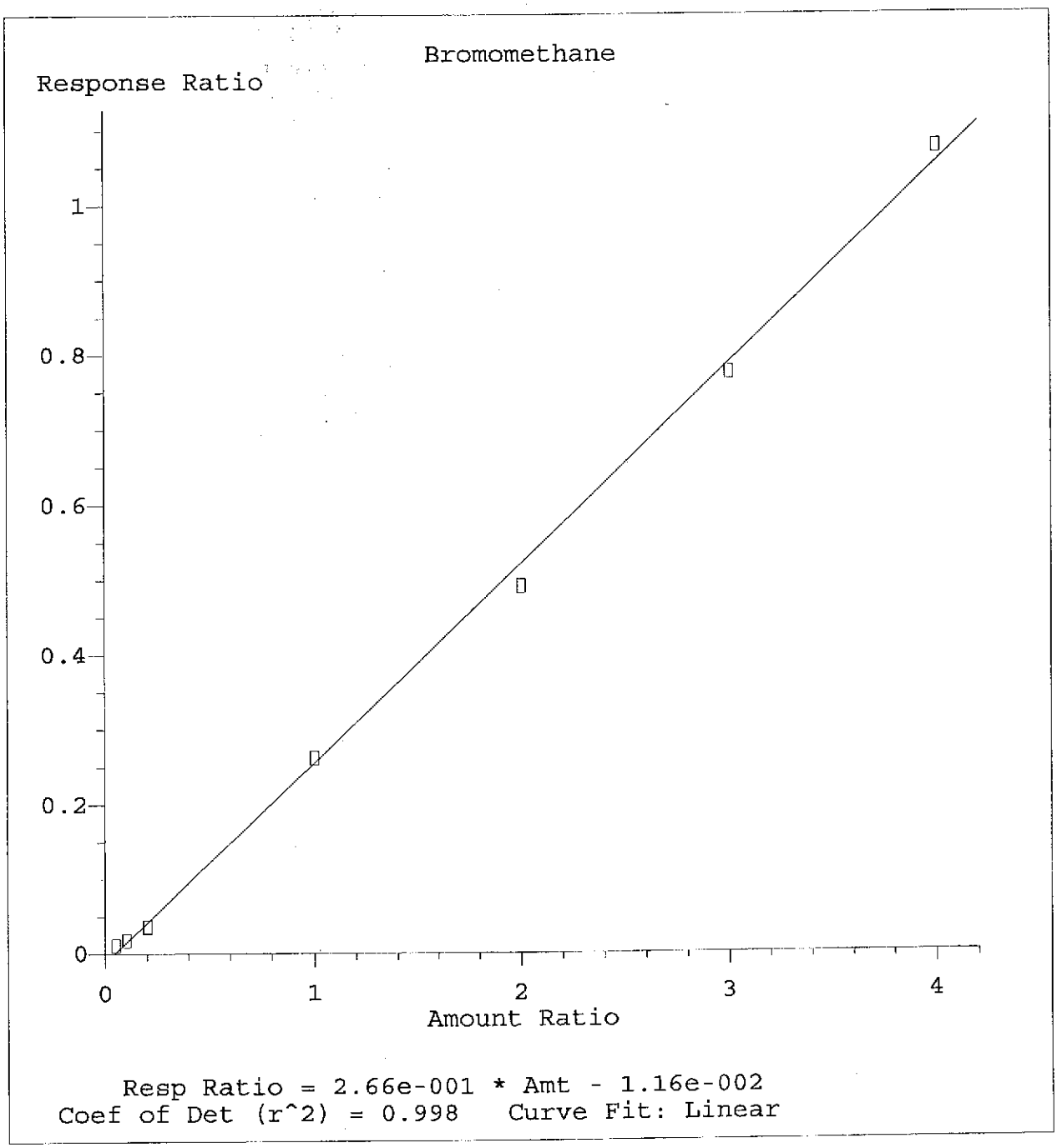
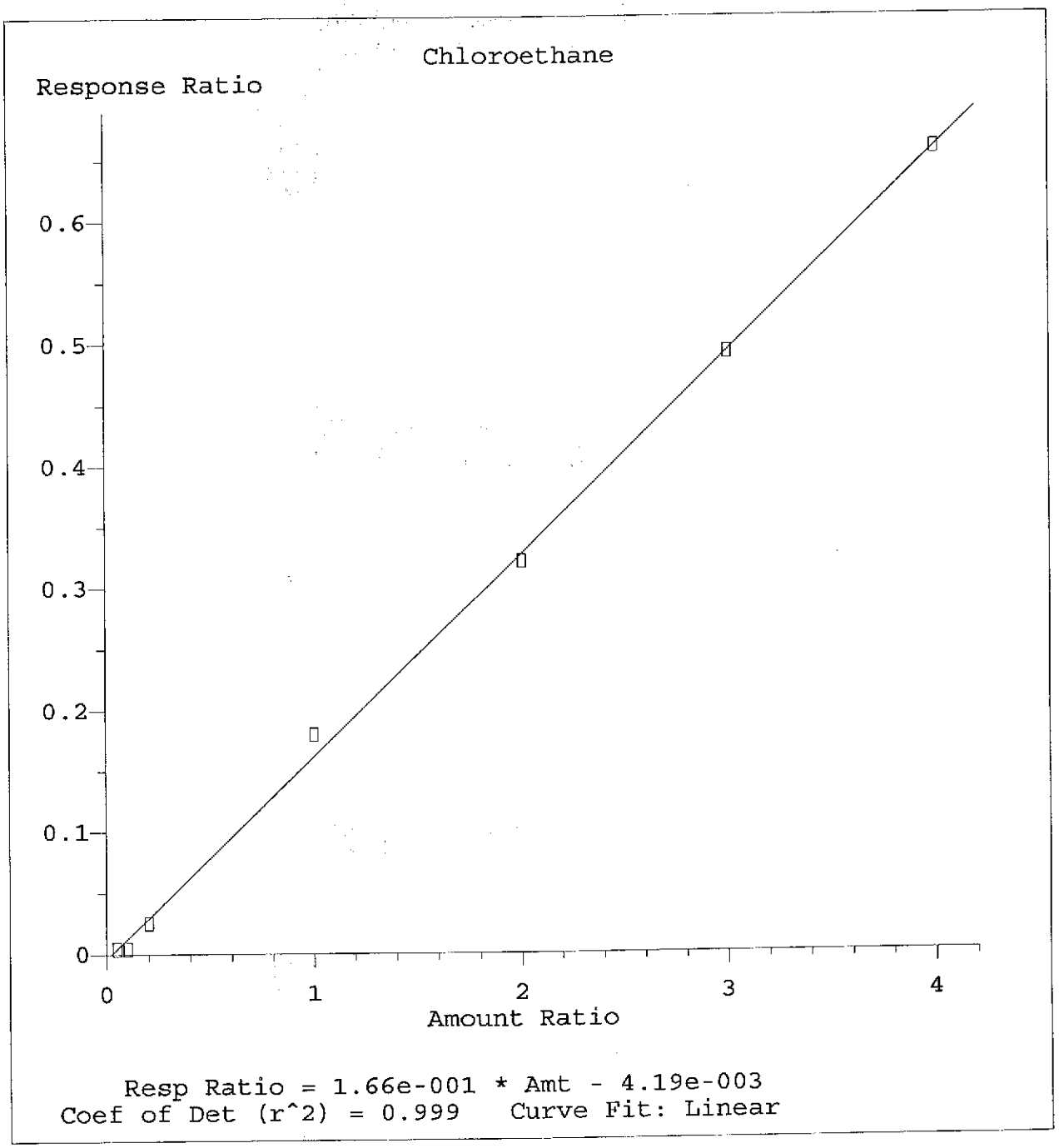
Calibration Table Last Updated: Mon Mar 31 11:54:06 2008



Method Name: C:\HPCHEM\1\METHODS\M324VOCW.M
Calibration Table Last Updated: Mon Mar 31 11:54:06 2008



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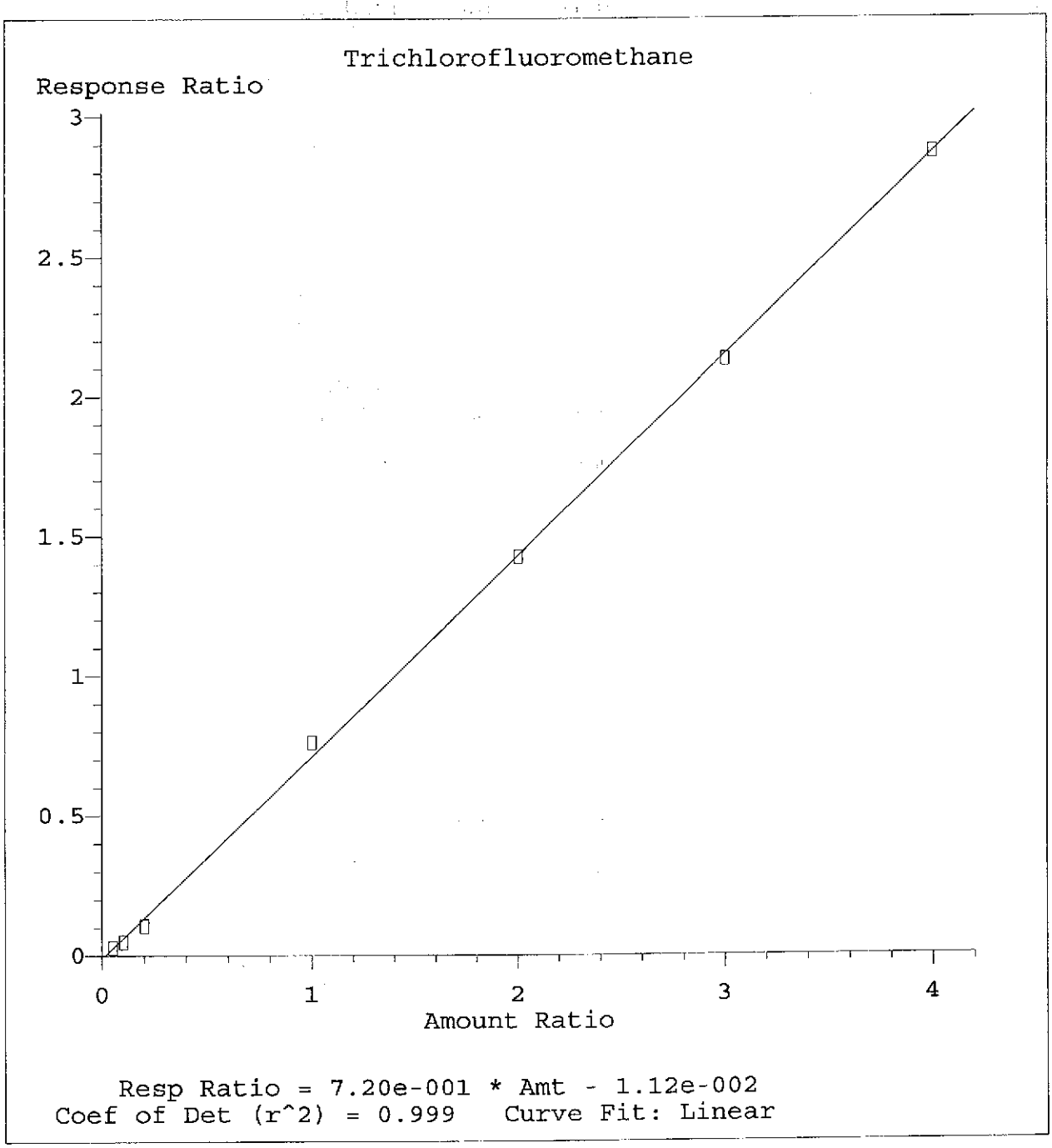
Calibration Table Last Updated: Mon Mar 31 11:54:06 2008



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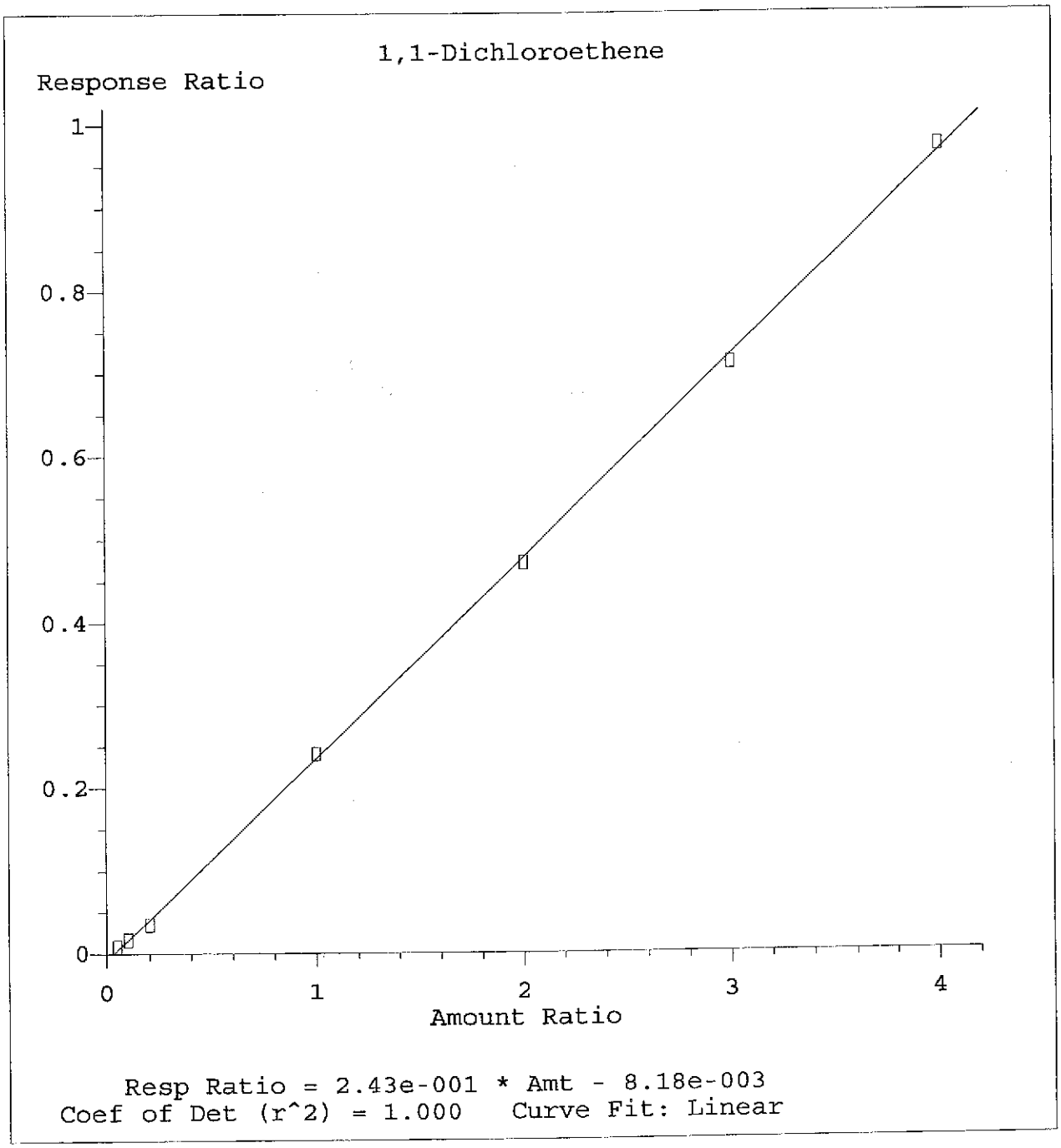
Calibration Table Last Updated: Mon Mar 31 11:54:06 2008



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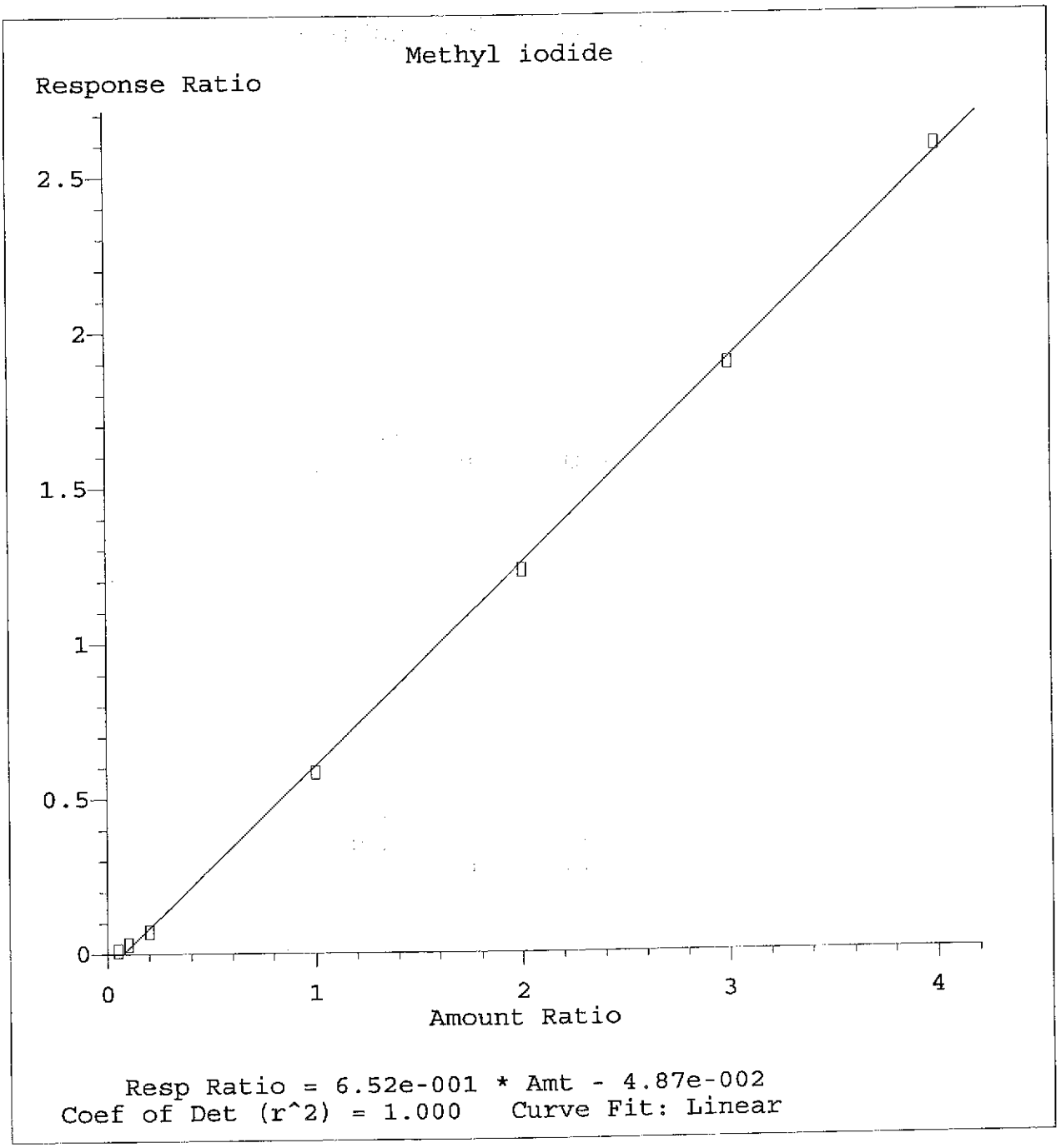
Calibration Table Last Updated: Mon Mar 31 11:54:06 2008



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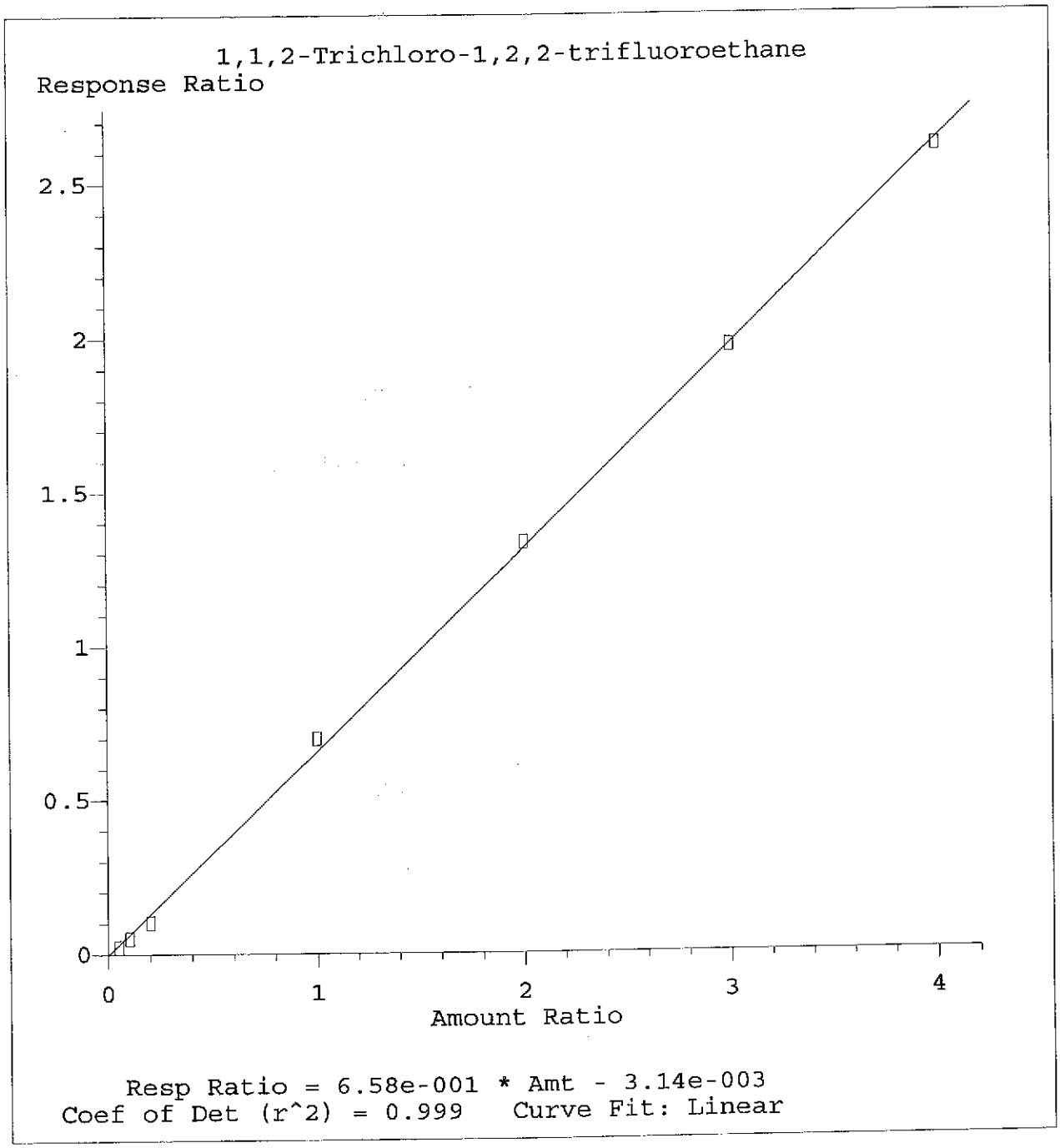
Calibration Table Last Updated: Mon Mar 31 11:54:06 2008



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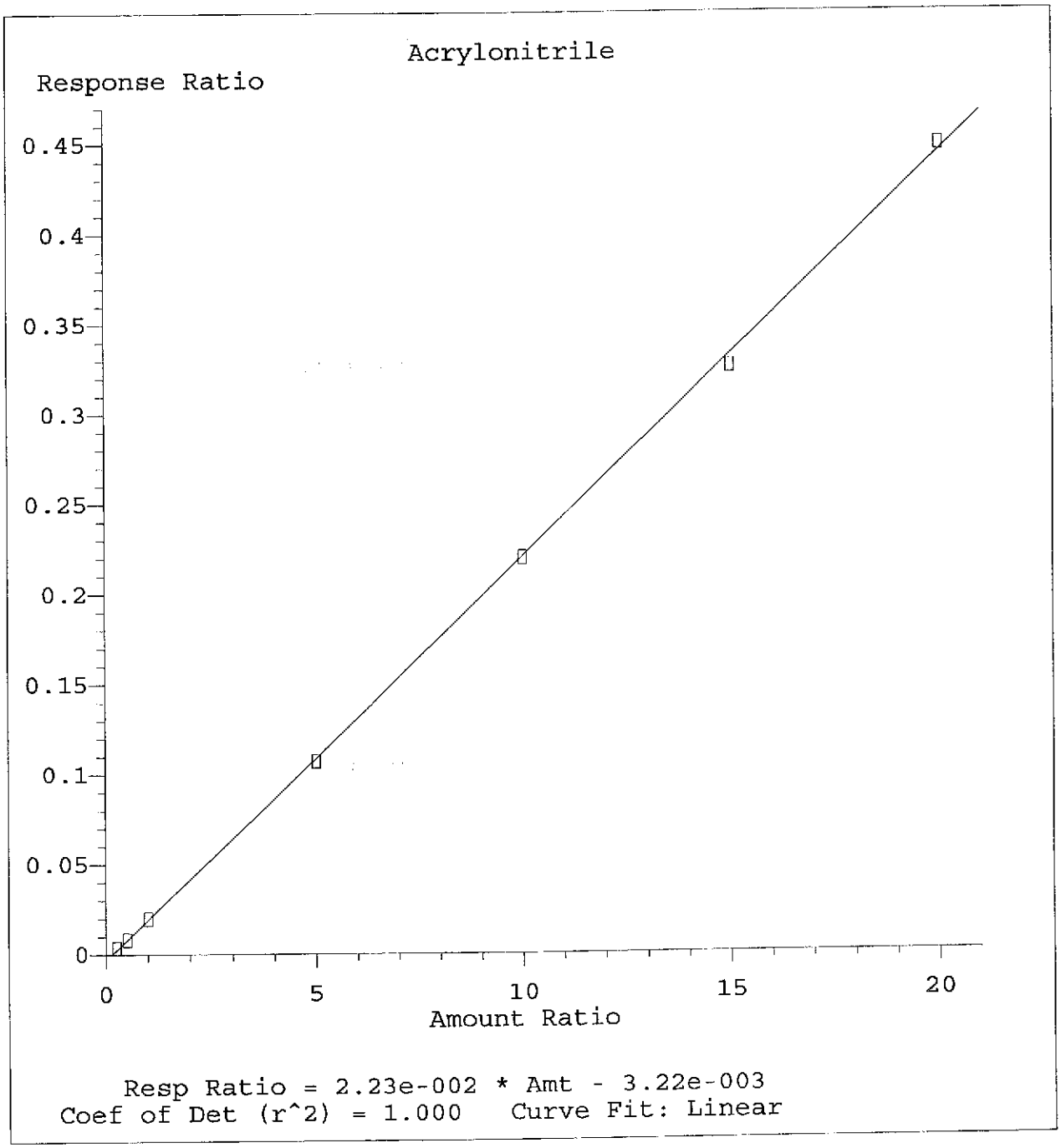
Calibration Table Last Updated: Mon Mar 31 11:54:06 2008



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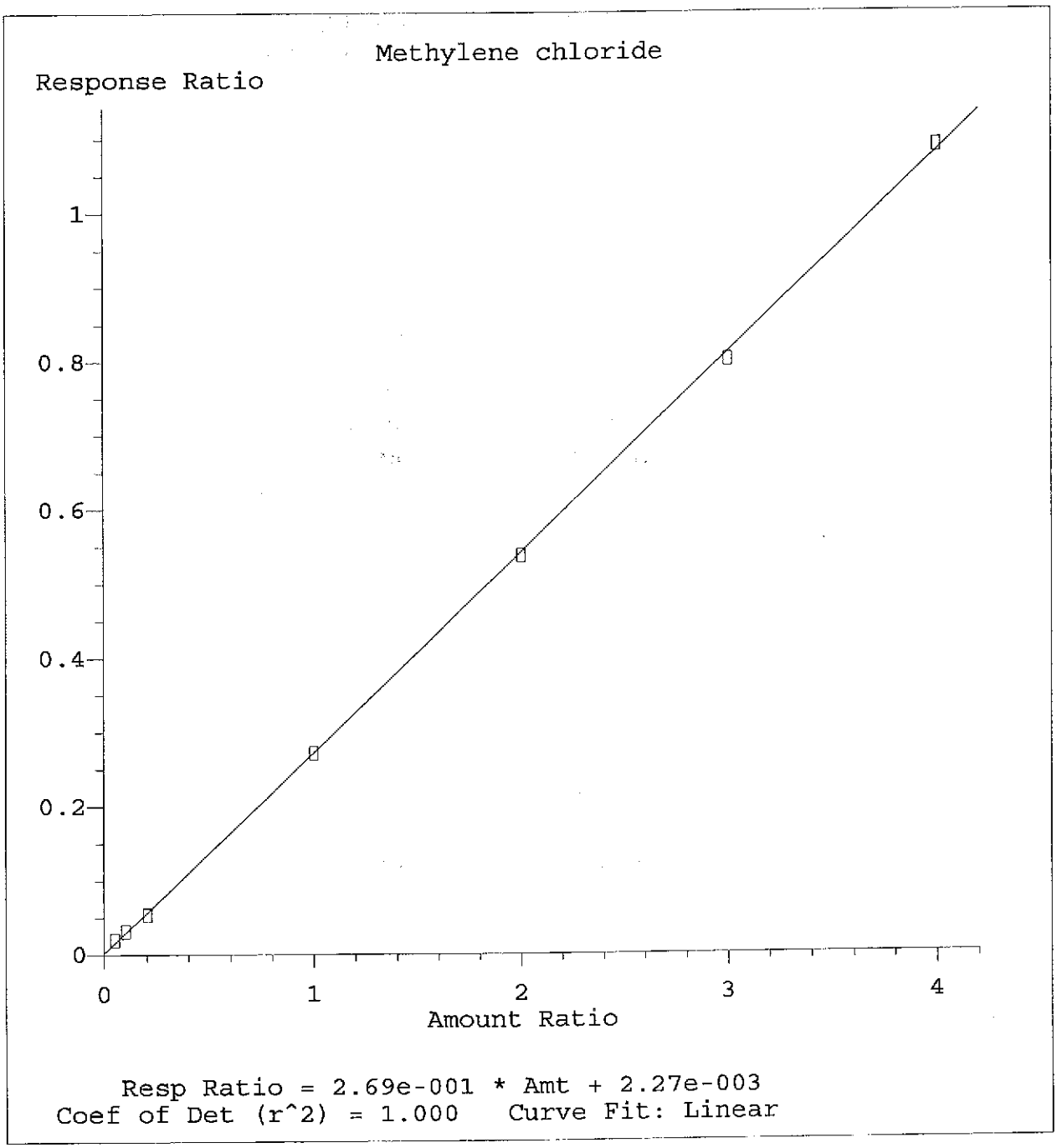

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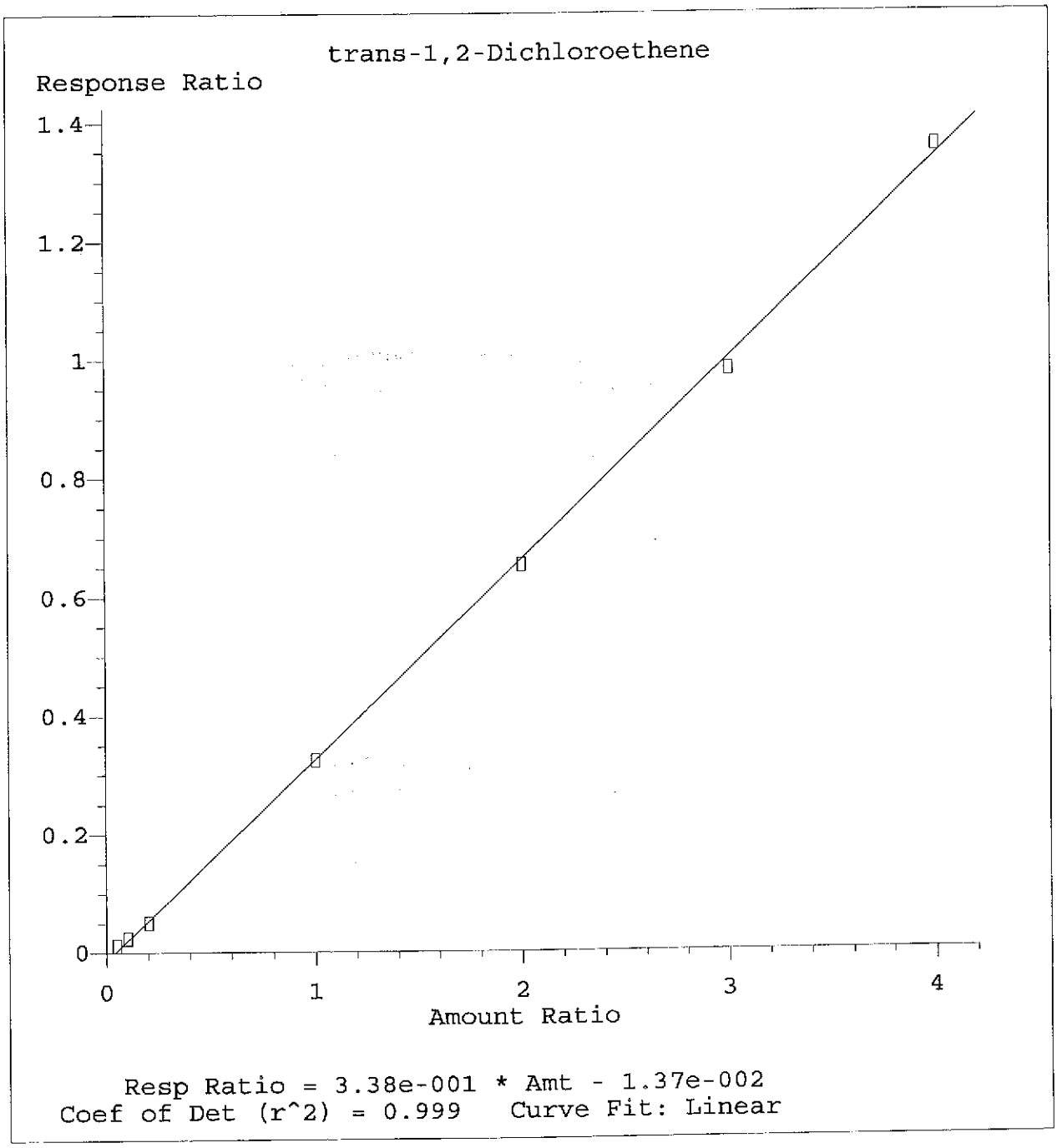

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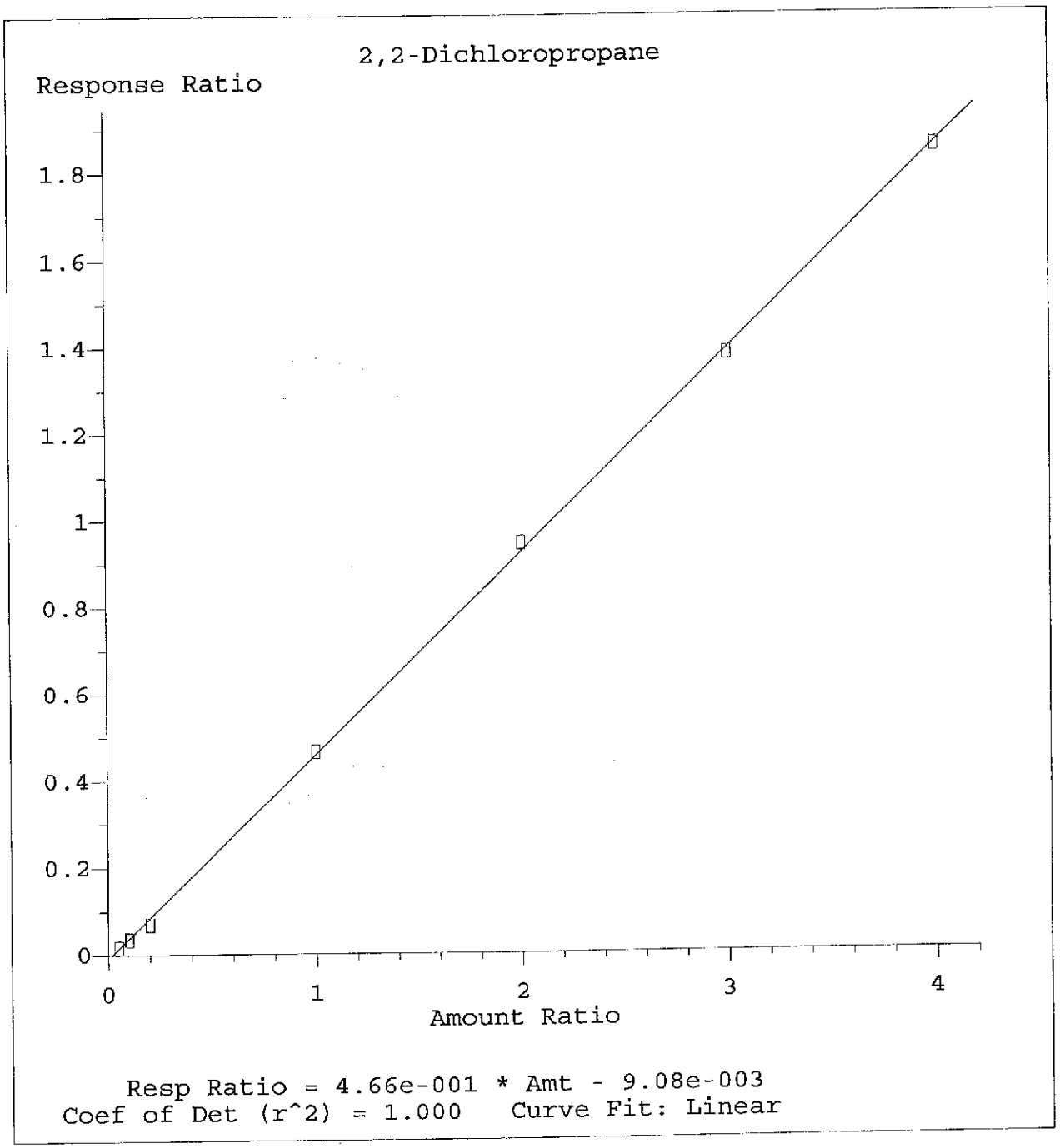

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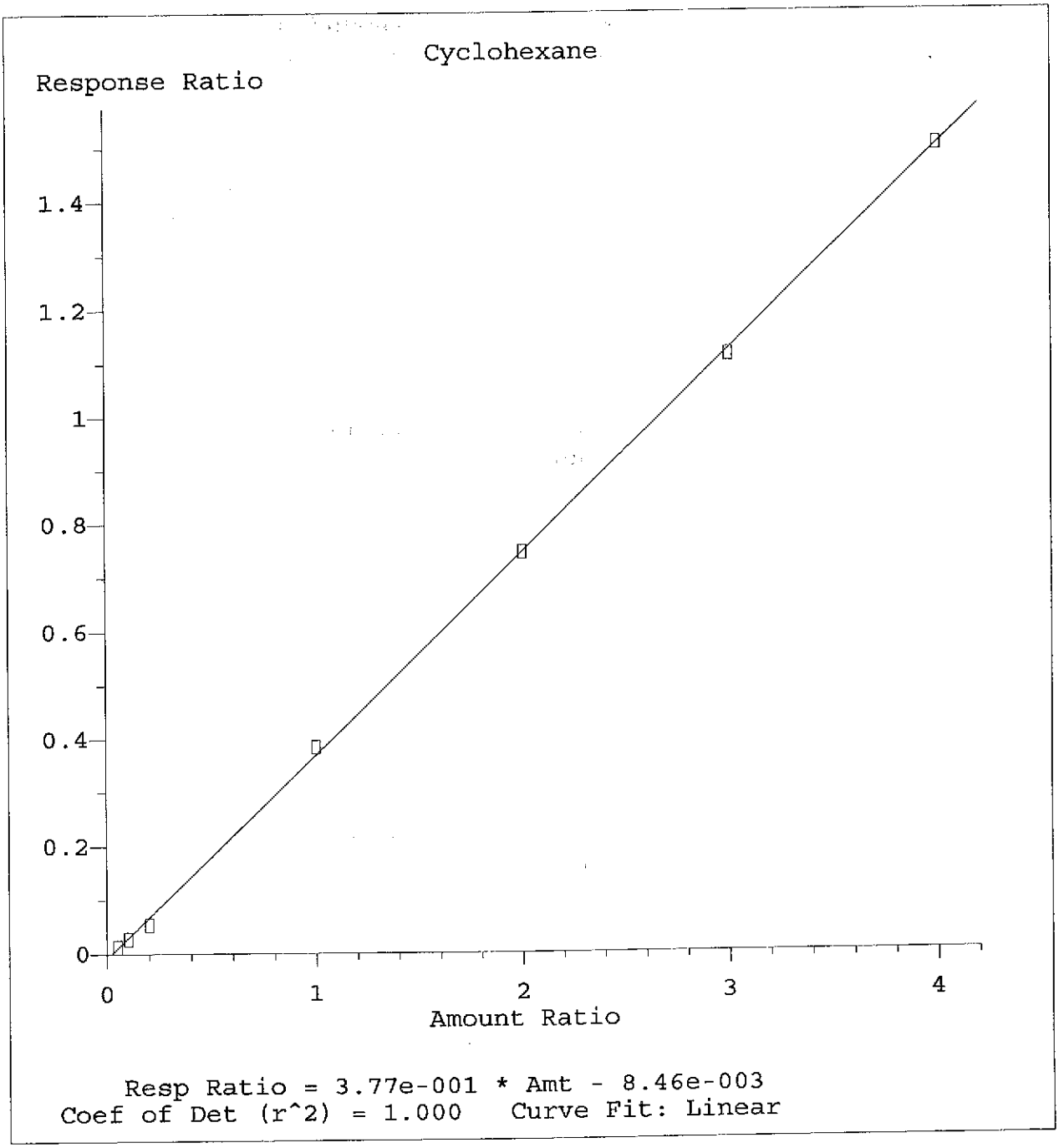

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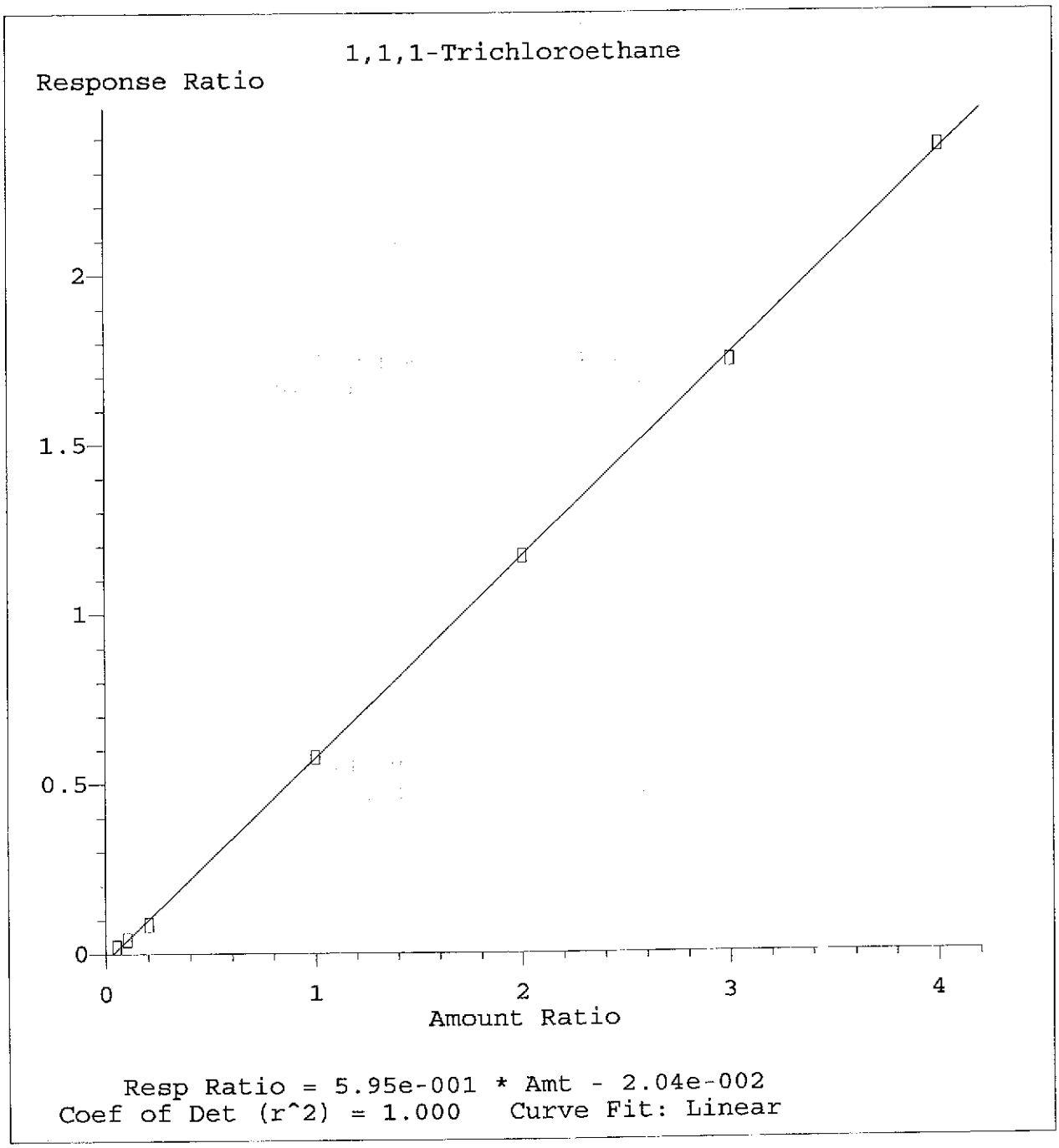

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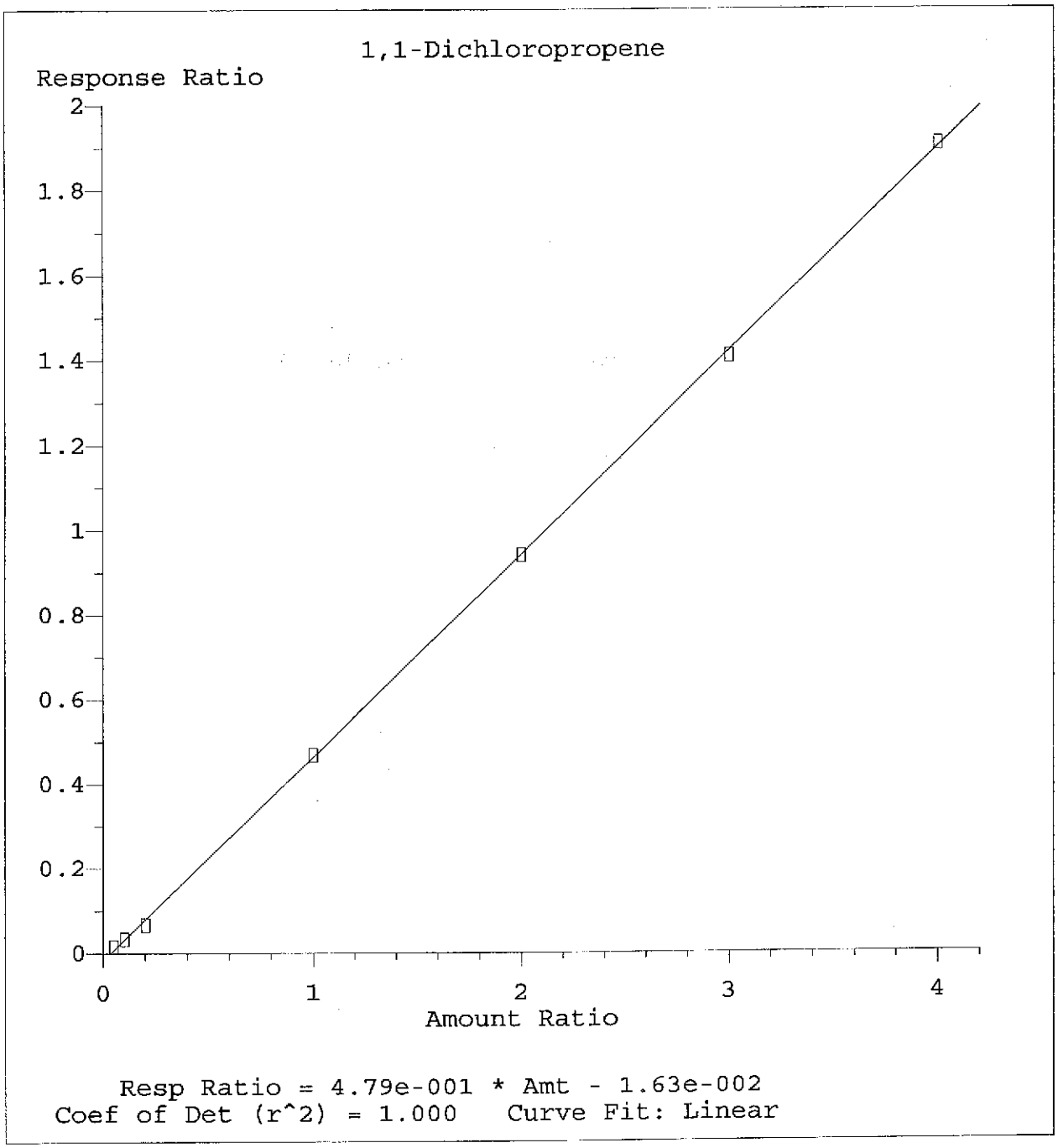

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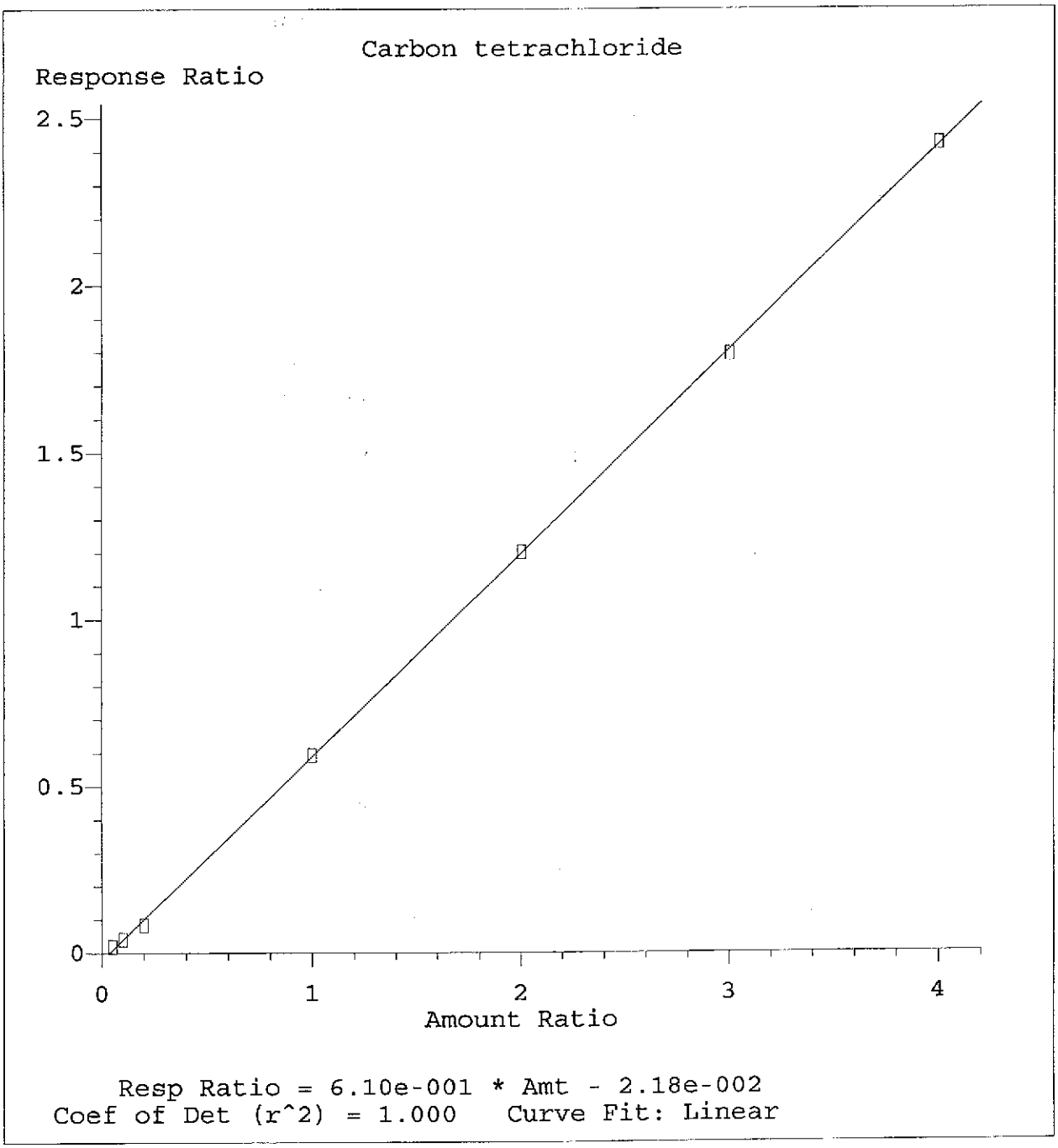

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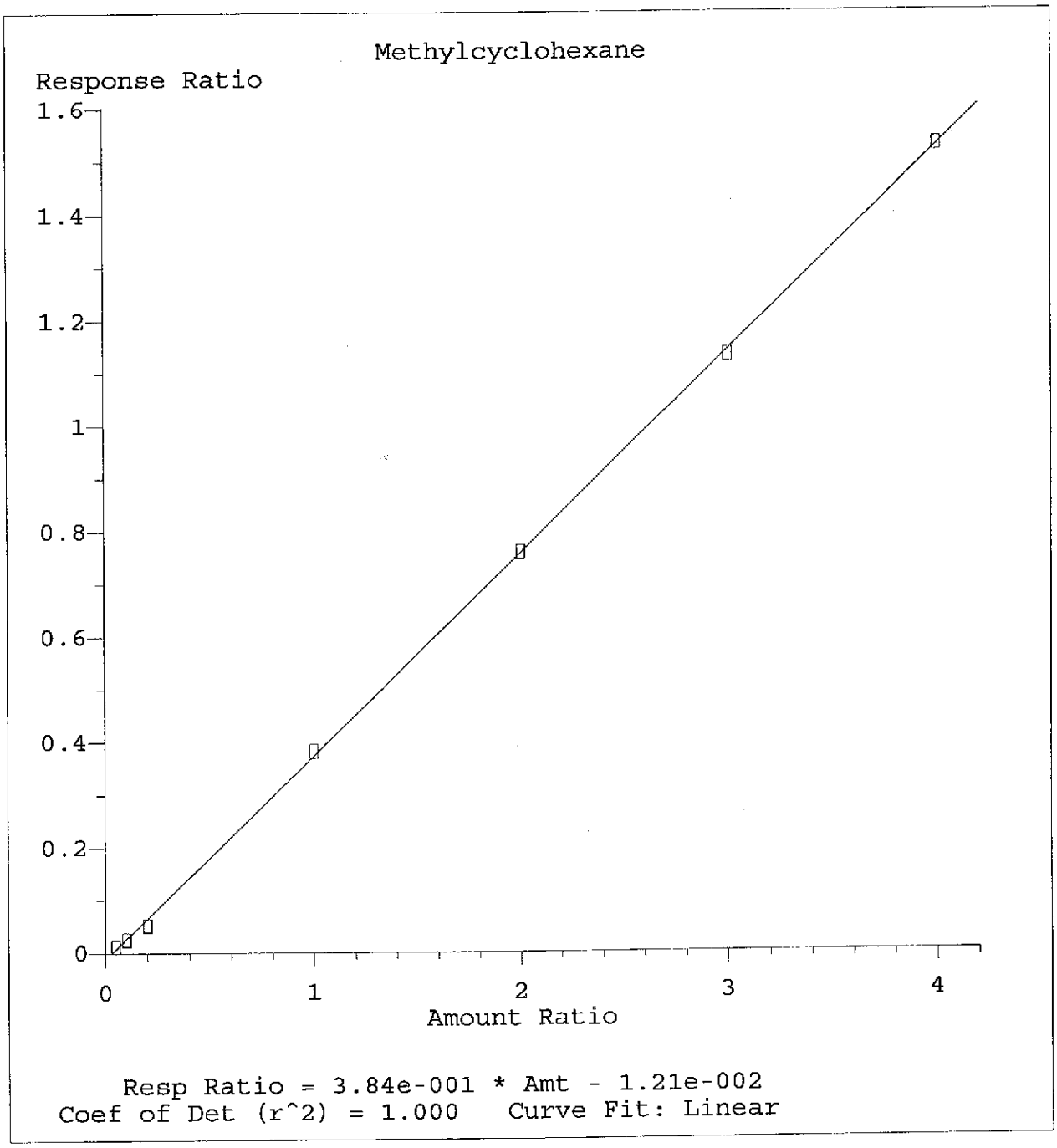

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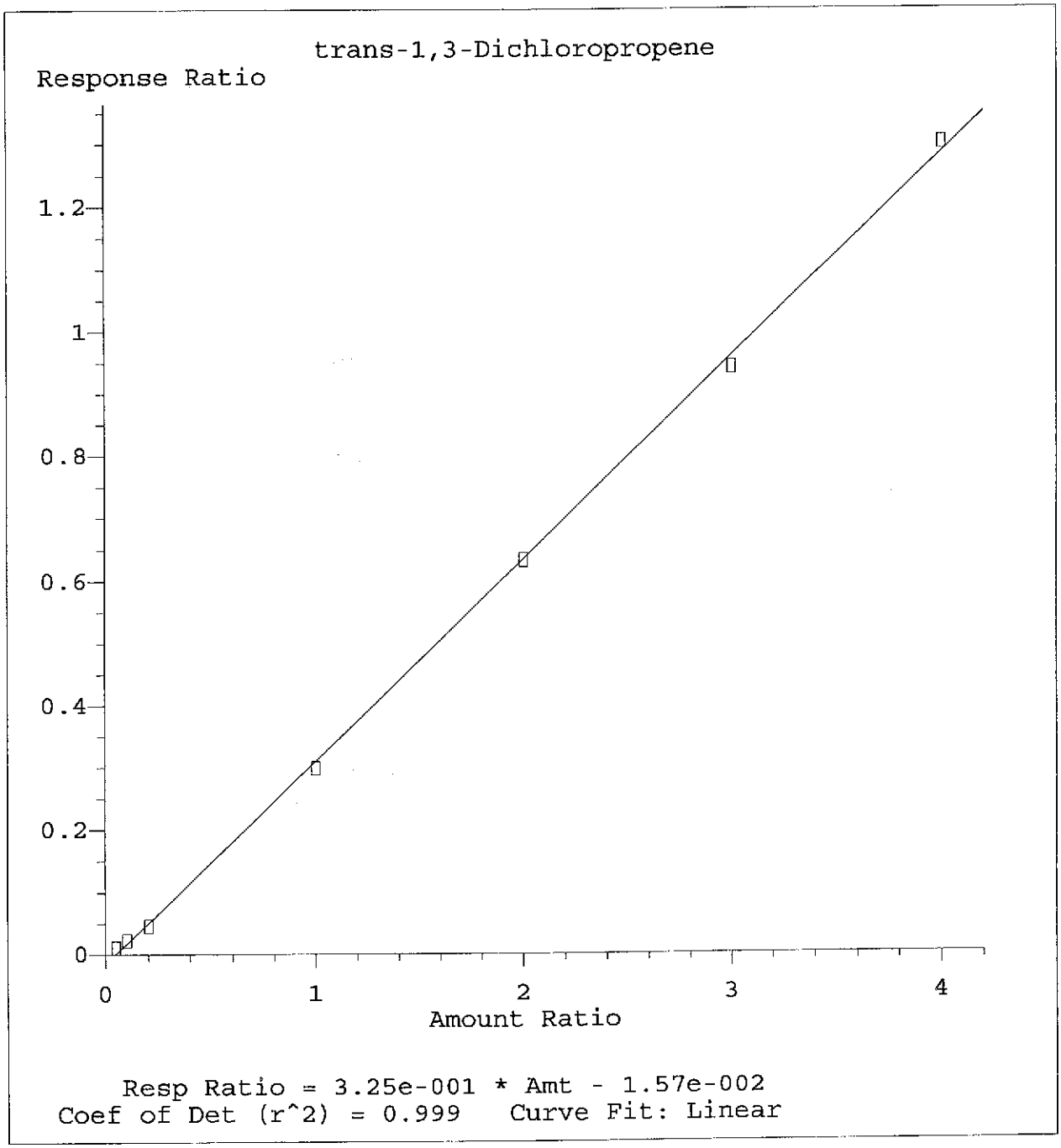

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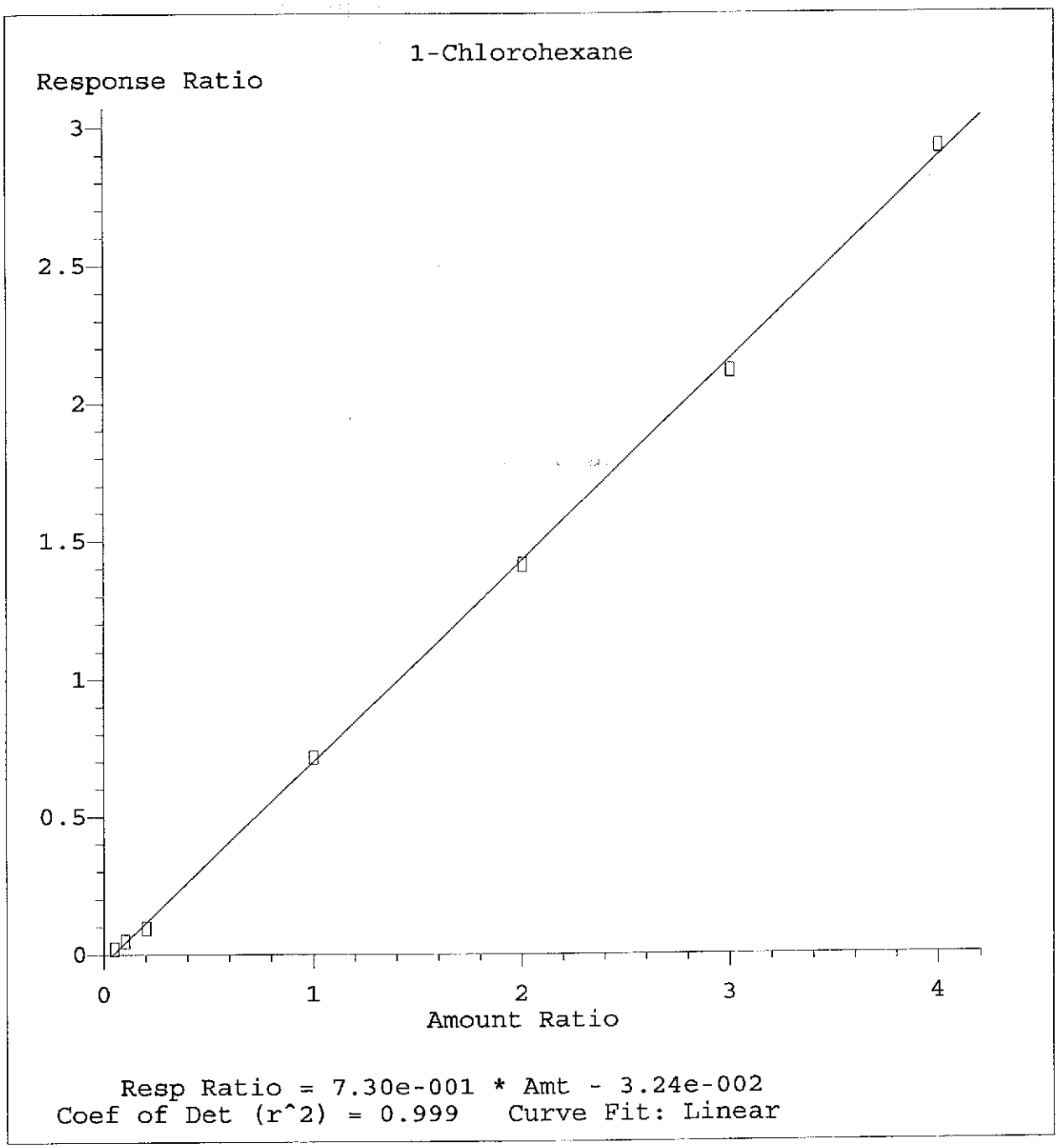

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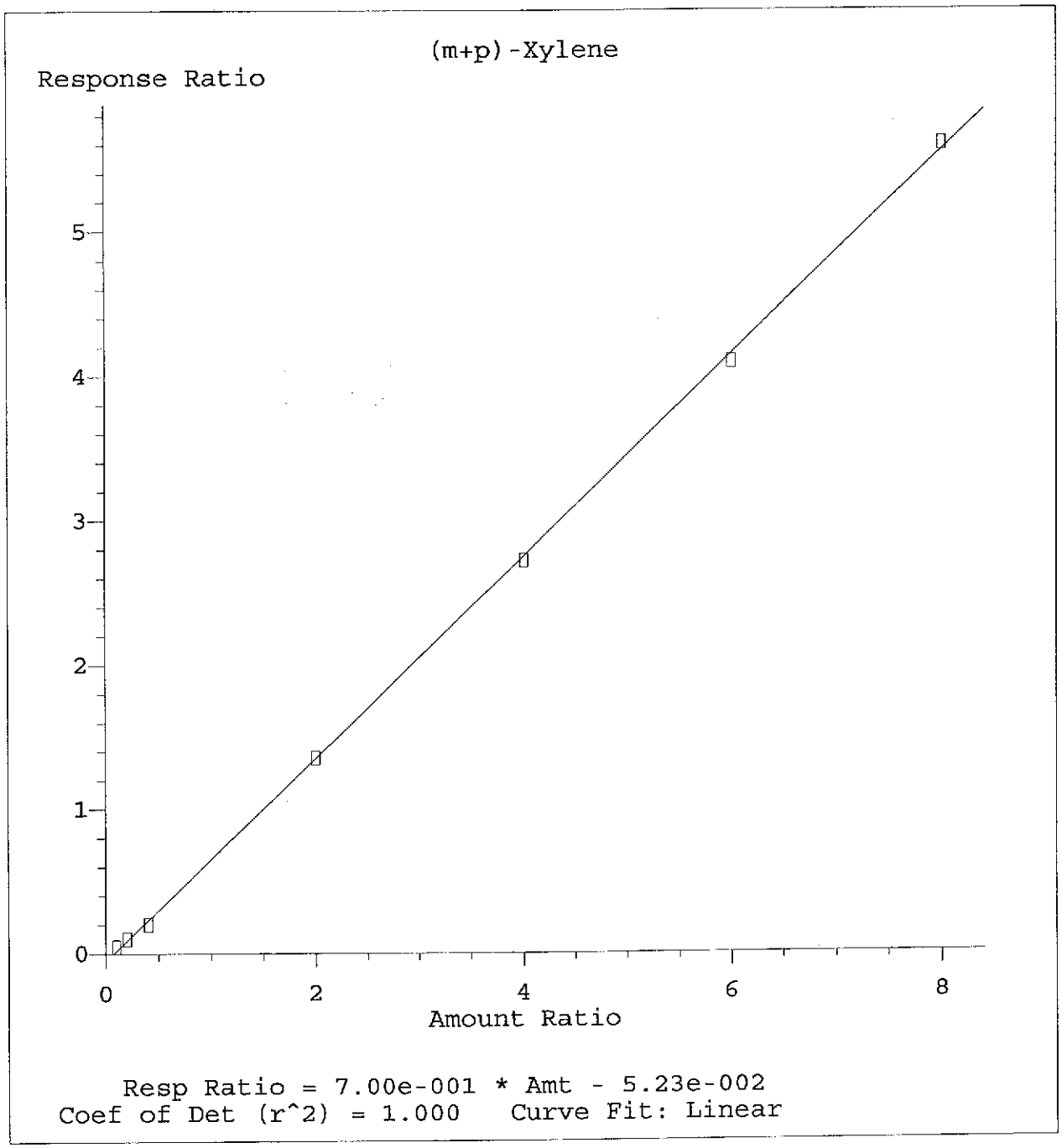
Calibration Table Last Updated: Mon Mar 31 11:54:06 2008



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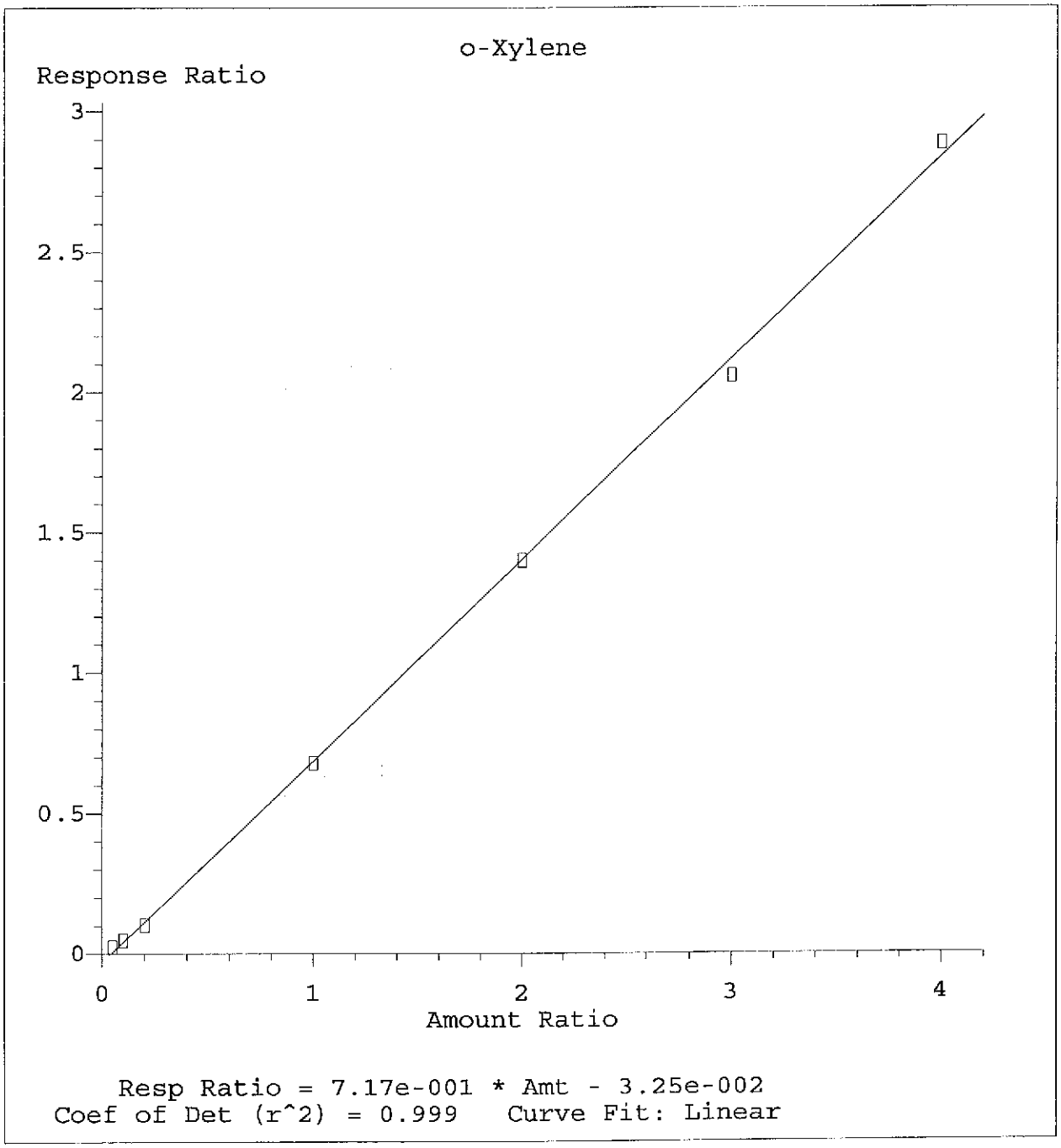

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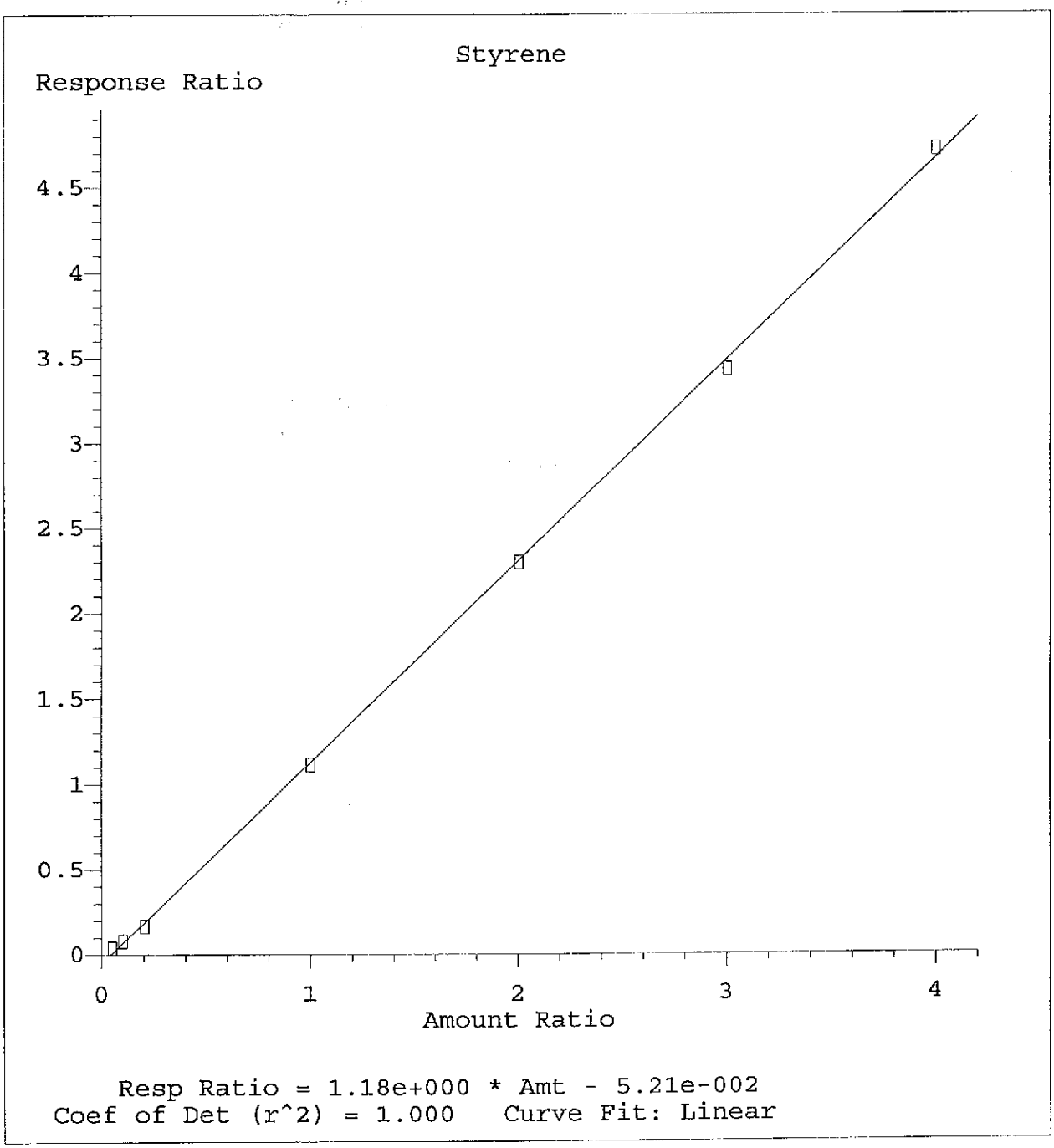
Calibration Table Last Updated: Mon Mar 31 11:54:06 2008



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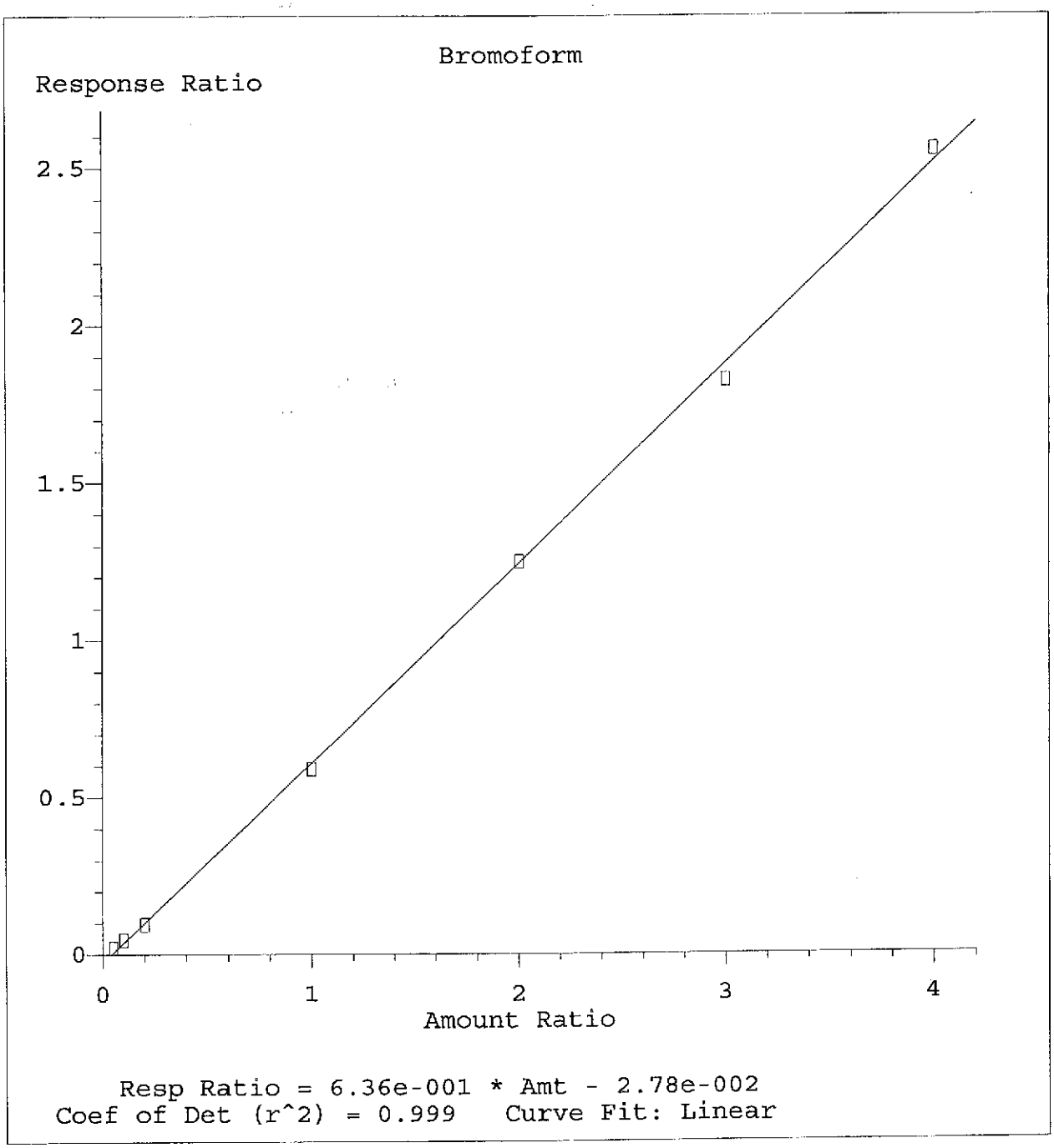

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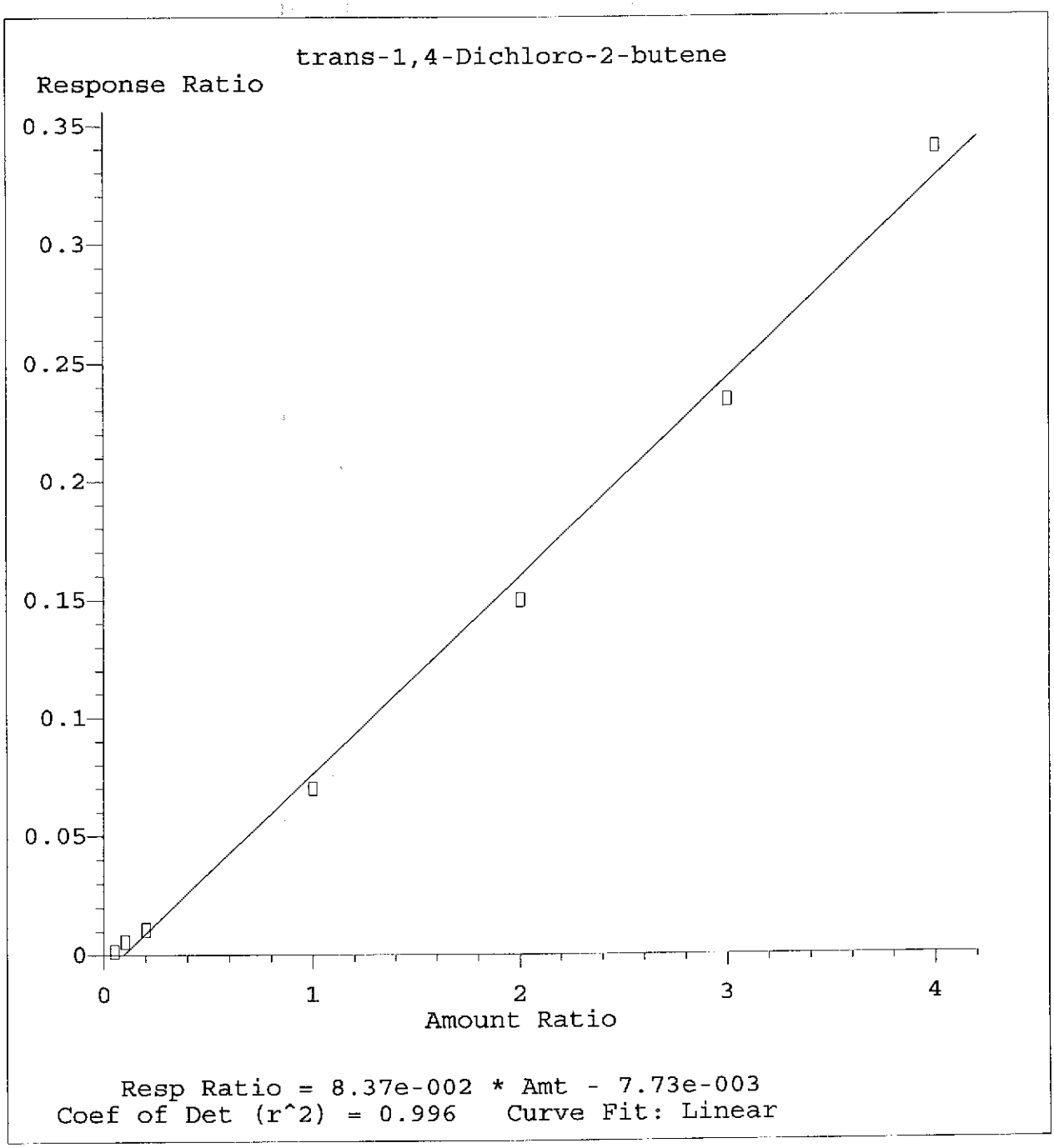
Calibration Table Last Updated: Mon Mar 31 11:54:06 2008



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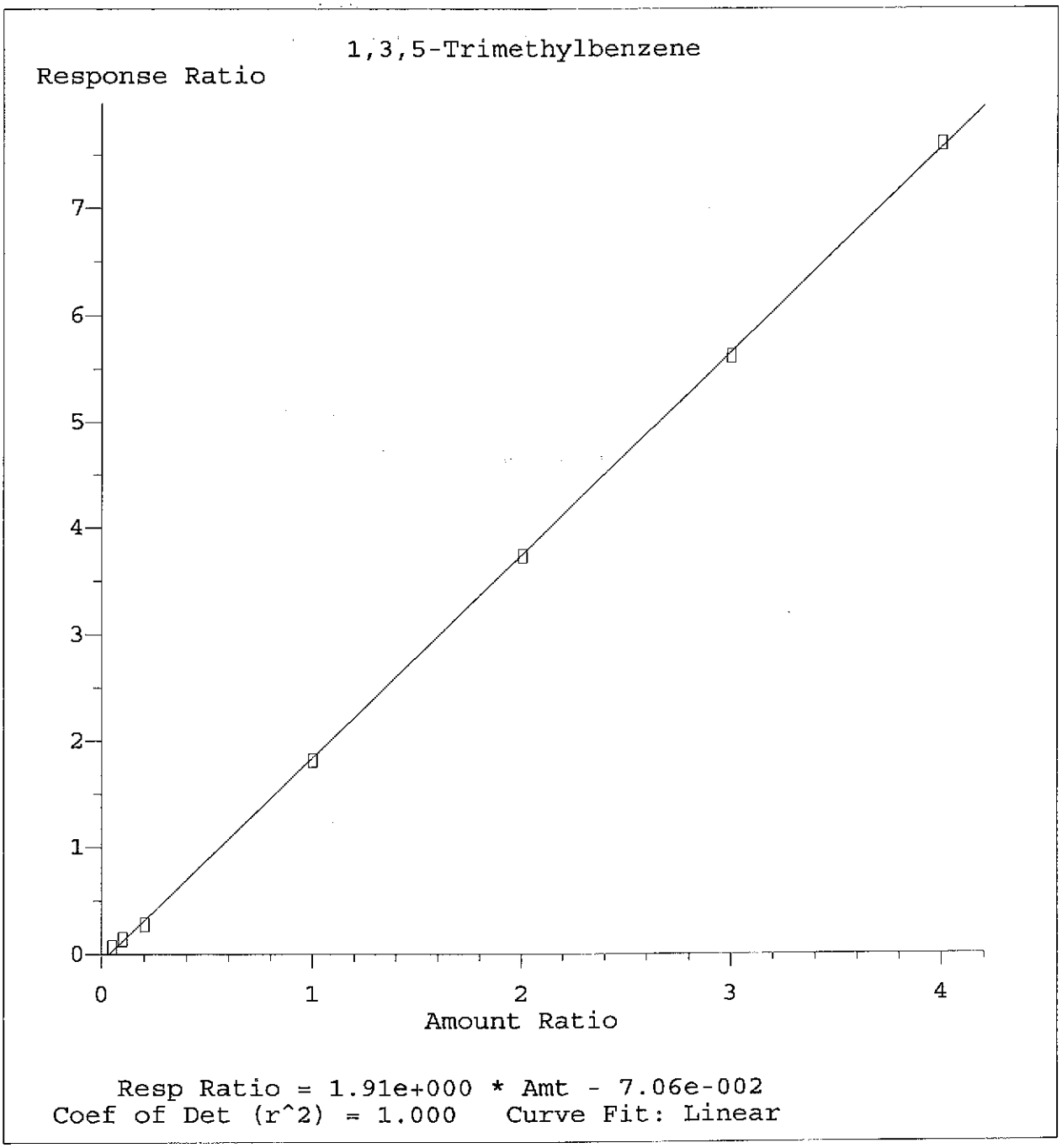

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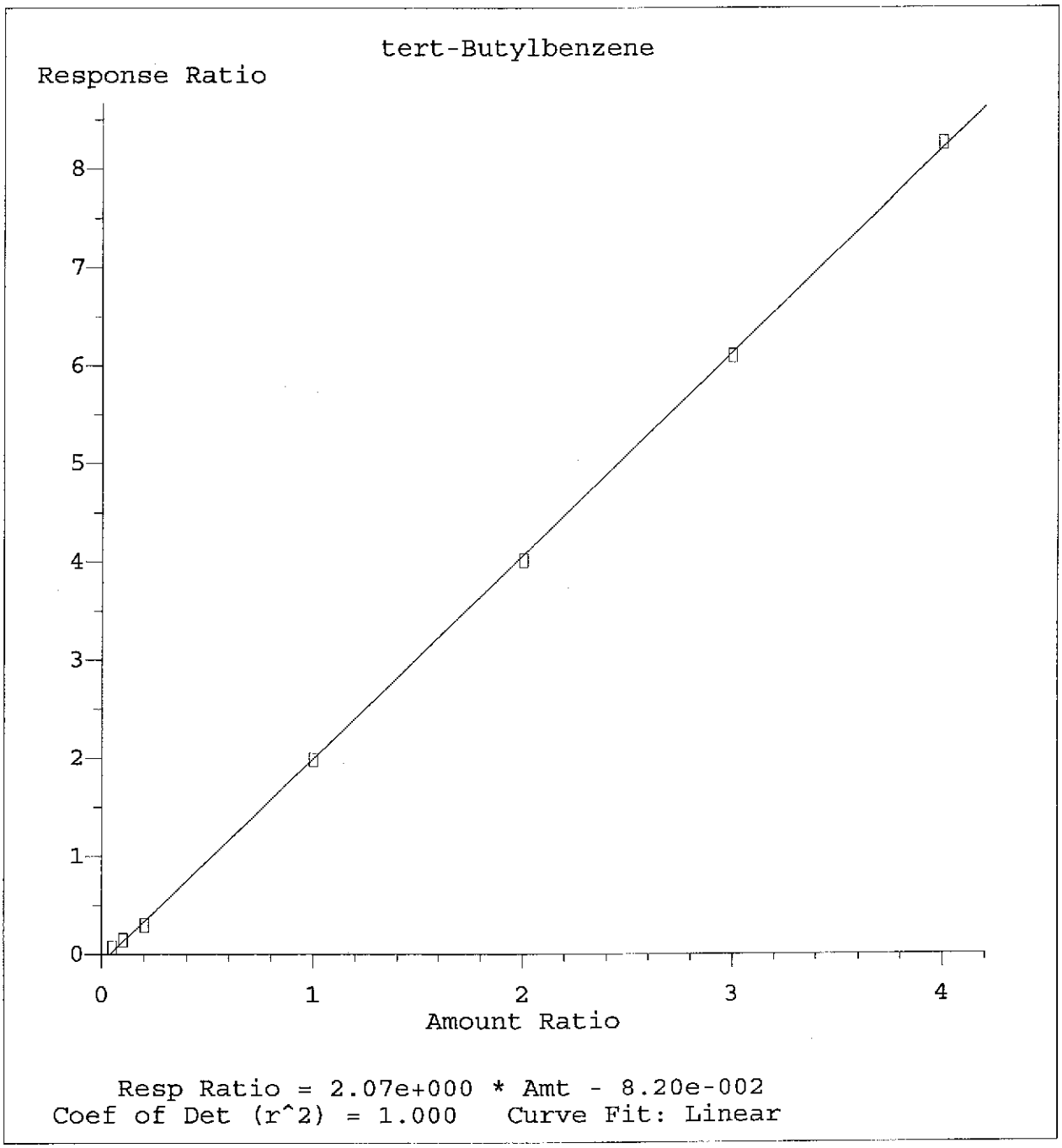

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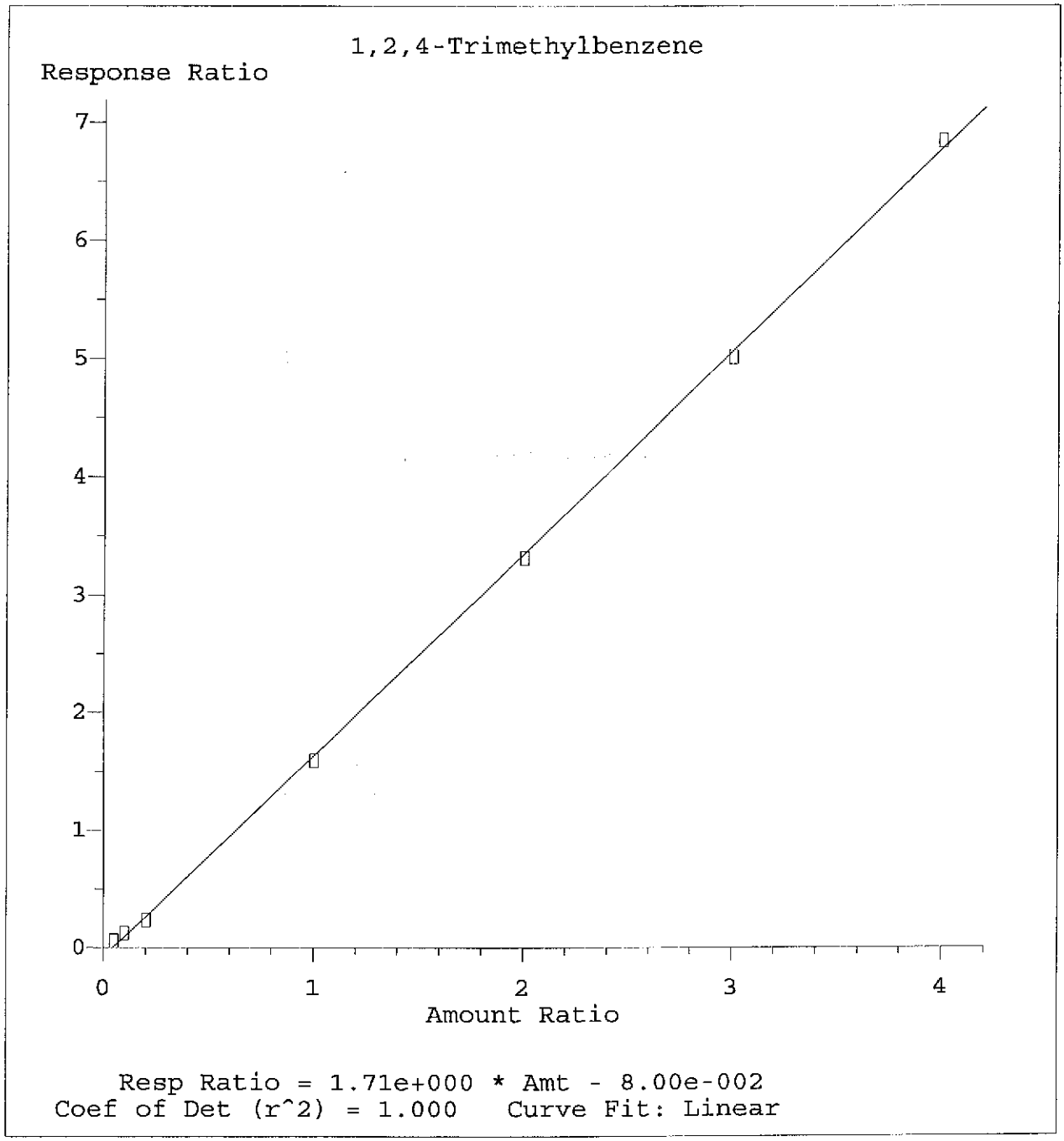

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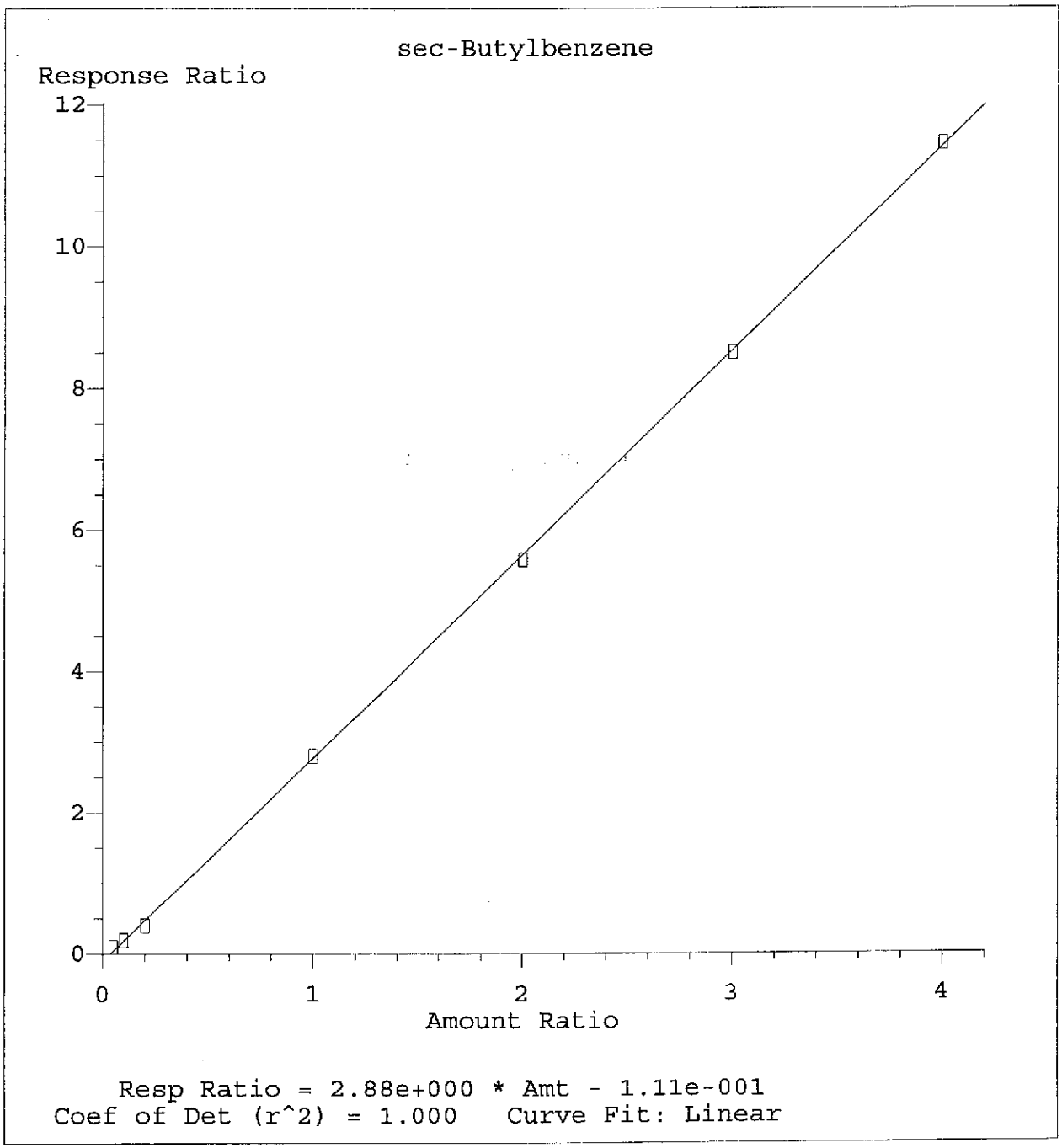
Calibration Table Last Updated: Mon Mar 31 11:54:06 2008



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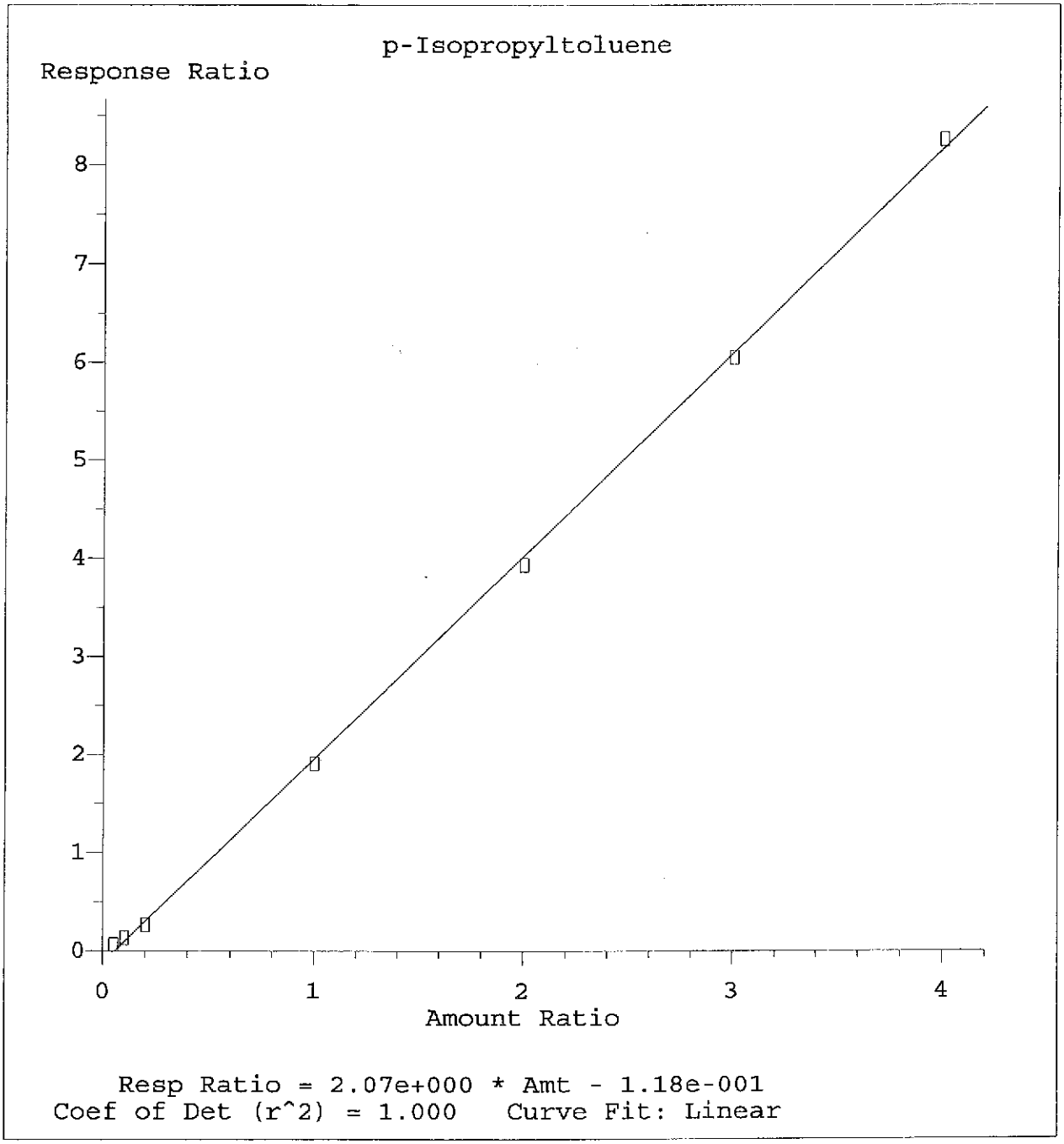

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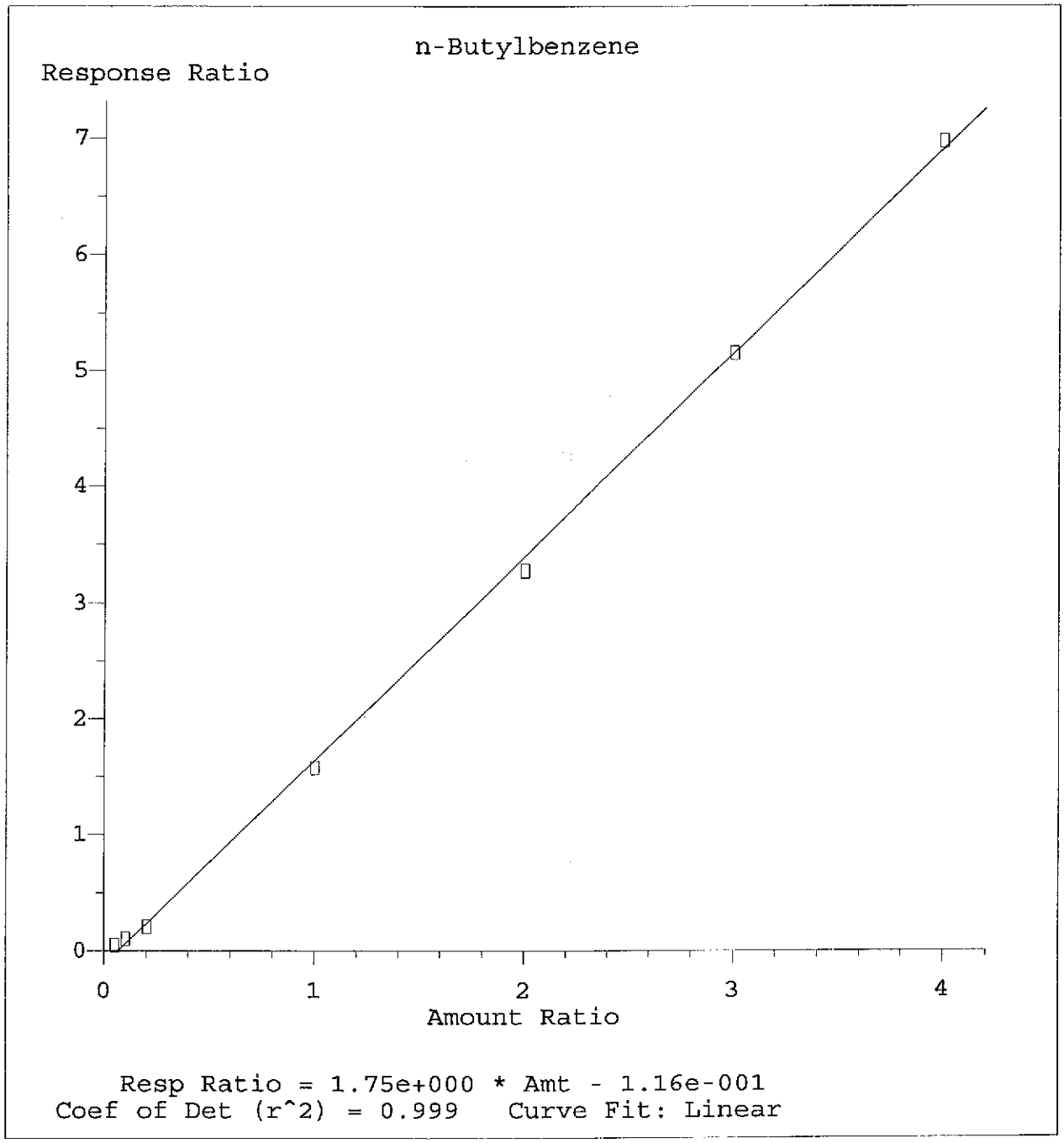

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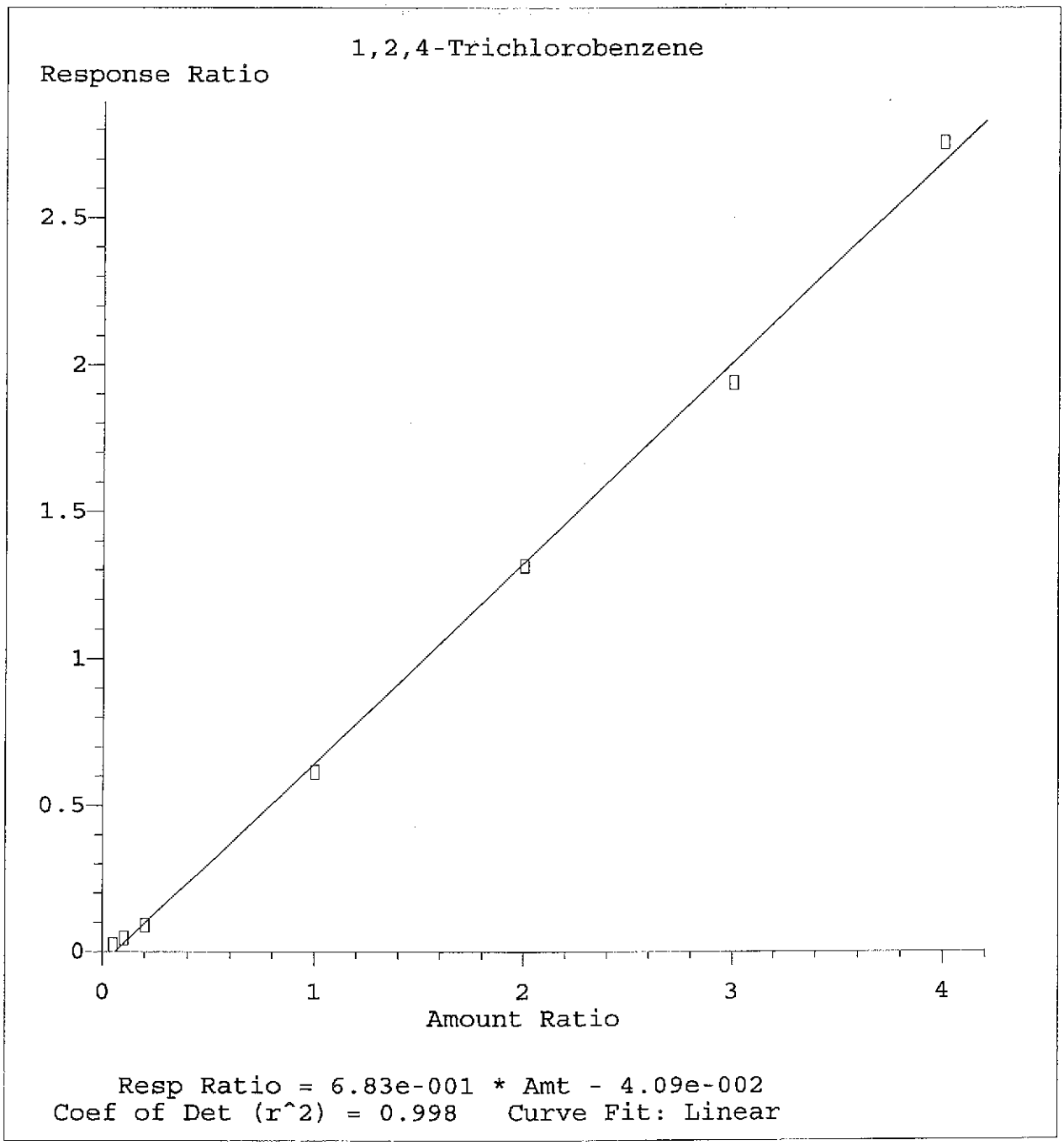
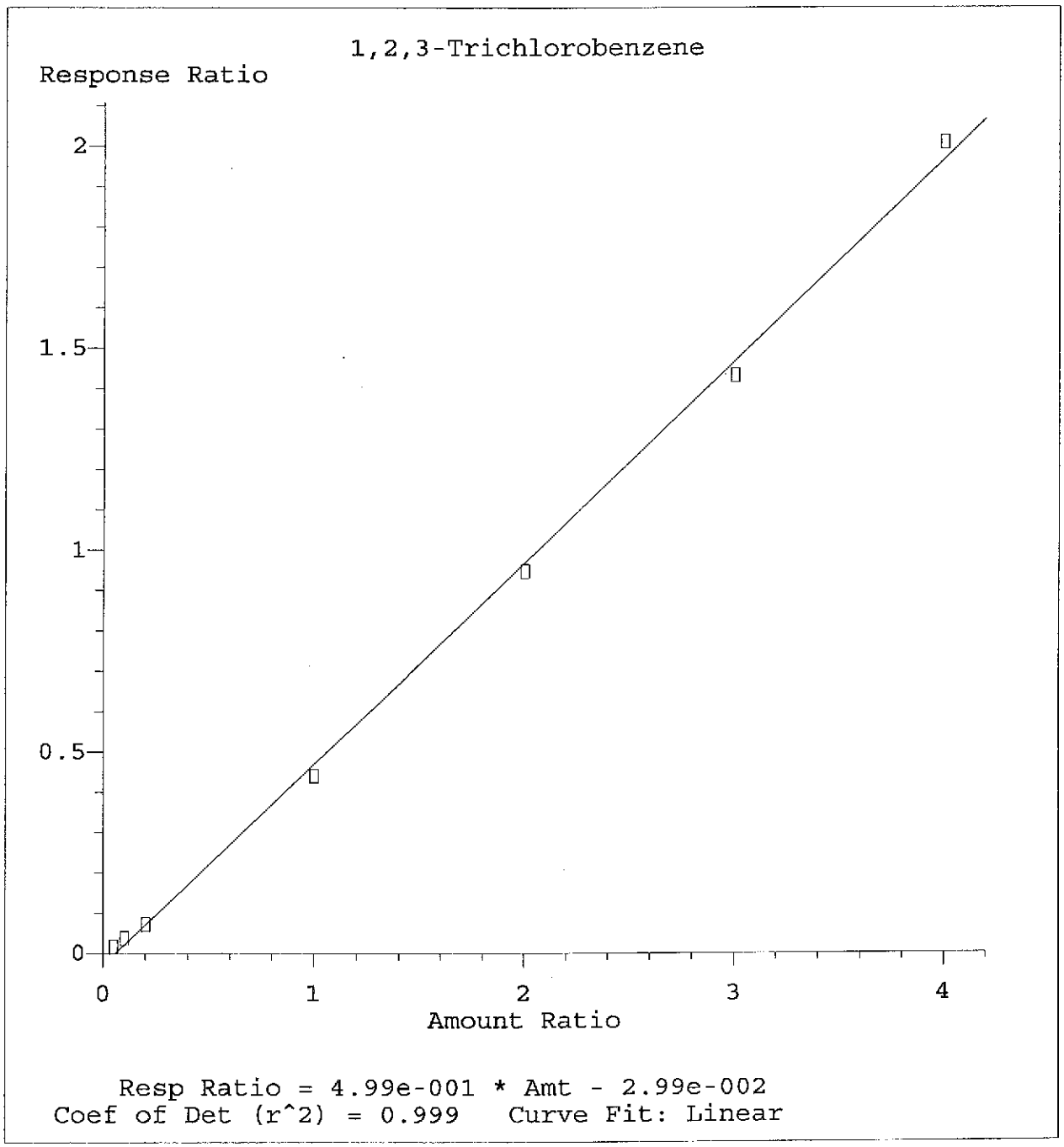


Method Name: C:\HPCHEM\1\METHODS\M324VOCW.M
Calibration Table Last Updated: Mon Mar 31 11:54:06 2008



Method Name: C:\HPCHEM\1\METHODS\M324VOCW.M
Calibration Table Last Updated: Mon Mar 31 11:54:06 2008

AFCEE
ORGANIC ANALYSES DATA SHEET 4
SECOND SOURCE CALIBRATION VERIFICATION

Analytical Method:	SW8260B	**AAB #:**	R13052
Lab Name:	Life Science Laboratories, In	**Contract Number:**	
Instrument ID:	MS02_12	**Initial Calibration ID:**	1212
Second Source ID:	ICV-13052	**Concentration Units (mg/L or mg/kg):**	µg/L

Analyte	Expected	Found	%D	Q
(m+p)-Xylene	20	21.1	-5.5	
1,1,1,2-Tetrachloroethane	10	11.2	-12.1	
1,1,1-Trichloroethane	10	10.8	-8.0	
1,1,2,2-Tetrachloroethane	10	10.5	-4.7	
1,1,2-Trichloroethane	10	11.4	-14.5	
1,1-Dichloroethane	10	11.6	-15.5	
1,1-Dichloroethene	10	12	-20.4	
1,1-Dichloropropene	10	10.7	-6.6	
1,2,3-Trichlorobenzene	10	9.87	1.3	
1,2,3-Trichloropropane	10	11.6	-16.1	
1,2,4-Trichlorobenzene	10	11	-10.1	
1,2,4-Trimethylbenzene	10	10.1	-1.3	
1,2-Dibromo-3-chloropropane	10	11.8	-18.1	
1,2-Dibromoethane	10	11.4	-13.8	
1,2-Dichlorobenzene	10	10.9	-9.2	
1,2-Dichloroethane	10	10.8	-7.8	
1,2-Dichloroethane-d4	10	10.8	-8.1	
1,2-Dichloropropane	10	11.2	-11.8	
1,3,5-Trimethylbenzene	10	10.4	-3.5	
1,3-Dichlorobenzene	10	11.3	-13.4	
1,3-Dichloropropane	10	10.9	-9.4	
1,4-Dichlorobenzene	10	10.8	-8.2	
1-Chlorohexane	10	10.3	-3.3	
2,2-Dichloropropane	10	9.92	0.8	
2-Butanone	20	21.5	-7.7	
2-Chlorotoluene	10	11.2	-12.5	
4-Bromofluorobenzene	10	11.3	-13.0	
4-Chlorotoluene	10	11.1	-11.1	
4-Methyl-2-pentanone	20	19.3	3.4	
Acetone	20	18.1	9.7	
Benzene	10	11.4	-14.0	
Bromobenzene	10	10.8	-8.4	
Bromochloromethane	10	11.2	-11.6	
Bromodichloromethane	10	11.5	-15.3	
Bromoform	10	10.1	-1.0	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 4
SECOND SOURCE CALIBRATION VERIFICATION

Analytical Method:	SW8260B	**AAB #:**	R13052
Lab Name:	Life Science Laboratories, In	**Contract Number:**	
Instrument ID:	MS02_12	**Initial Calibration ID:**	1212
Second Source ID:	ICV-13052	**Concentration Units (mg/L or mg/kg):**	ug/L

Analyte	Expected	Found	%D	Q
Bromomethane	10	10.1	-0.7	
Carbon tetrachloride	10	10.5	-4.8	
Chlorobenzene	10	11.2	-11.8	
Chloroethane	10	11.1	-10.8	
Chloroform	10	11.4	-14.5	
Chloromethane	10	11.7	-17.0	
cis-1,2-Dichloroethene	10	11.9	-19.3	
cis-1,3-Dichloropropene	10	11.2	-11.9	
Dibromochloromethane	10	11.3	-13.2	
Dibromomethane	10	11.1	-11.3	
Dichlorodifluoromethane	10	10.6	-5.9	
Ethylbenzene	10	11.8	-18.5	
Hexachlorobutadiene	10	12	-20.1	
Isopropylbenzene	10	11	-10.1	
Methyl tert-butyl ether	10	11.2	-11.7	
Methylene chloride	10	10.7	-6.9	
n-Butylbenzene	10	9.99	0.1	
n-Propylbenzene	10	11.6	-16.1	
Naphthalene	10	11.2	-11.5	
o-Xylene	10	10.6	-6.4	
p-Isopropyltoluene	10	10	-0.2	
sec-Butylbenzene	10	10.4	-3.5	
Styrene	10	9.71	2.9	
tert-Butylbenzene	10	10.3	-2.9	
Tetrachloroethene	10	11.6	-15.7	
Toluene	10	11.3	-13.2	
Toluene-d8	10	11.1	-11.3	
trans-1,2-Dichloroethene	10	10.7	-7.2	
trans-1,3-Dichloropropene	10	10	0	
Trichloroethene	10	11.8	-17.9	
Trichlorofluoromethane	10	10.7	-6.9	
Vinyl chloride	10	10.7	-6.8	
Xylenes (total)	30	31.7	-5.8	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 4
SECOND SOURCE CALIBRATION VERIFICATION

Analytical Method:	SW8260B	**AAB #:**	R13065
Lab Name:	Life Science Laboratories, In	**Contract Number:**	
Instrument ID:	MS01_11	**Initial Calibration ID:**	1204
Second Source ID:	ICV-13065	**Concentration Units (mg/L or mg/kg):**	ug/L

Analyte	Expected	Found	%D	Q
(m+p)-Xylene	20	23.6	-17.8	
1,1,1,2-Tetrachloroethane	10	10.3	-2.6	
1,1,1-Trichloroethane	10	10.8	-7.7	
1,1,2,2-Tetrachloroethane	10	11.1	-10.9	
1,1,2-Trichloroethane	10	11.5	-14.6	
1,1-Dichloroethane	10	11.2	-12.3	
1,1-Dichloroethene	10	12	-19.9	
1,1-Dichloropropene	10	10.8	-7.6	
1,2,3-Trichlorobenzene	10	9.55	4.5	
1,2,3-Trichloropropane	10	11	-9.5	
1,2,4-Trichlorobenzene	10	10.4	-4.1	
1,2,4-Trimethylbenzene	10	10.4	-4.1	
1,2-Dibromo-3-chloropropane	10	10	-0.5	
1,2-Dibromoethane	10	11.6	-15.7	
1,2-Dichlorobenzene	10	11.2	-11.7	
1,2-Dichloroethane	10	11.1	-11.2	
1,2-Dichloroethane-d4	10	10.3	-2.8	
1,2-Dichloropropane	10	11.1	-11.4	
1,3,5-Trimethylbenzene	10	11.6	-15.8	
1,3-Dichlorobenzene	10	11.4	-13.5	
1,3-Dichloropropane	10	10.8	-8.0	
1,4-Dichlorobenzene	10	11	-10.4	
1-Chlorohexane	10	10.4	-4.0	
2,2-Dichloropropane	10	11.6	-15.5	
2-Butanone	20	20.2	-1.1	
2-Chlorotoluene	10	11	-9.7	
4-Bromofluorobenzene	10	9.81	1.9	
4-Chlorotoluene	10	11.2	-12.5	
4-Methyl-2-pentanone	20	22	-9.9	
Acetone	20	17.4	12.8	
Benzene	10	11.4	-14.0	
Bromobenzene	10	10.9	-8.9	
Bromochloromethane	10	11.3	-13.0	
Bromodichloromethane	10	10.7	-7.2	
Bromoform	10	10	-0.3	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 4
SECOND SOURCE CALIBRATION VERIFICATION

Analytical Method:	SW8260B	**AAB #:**	R13065
Lab Name:	Life Science Laboratories, In	**Contract Number:**	
Instrument ID:	MS01_11	**Initial Calibration ID:**	1204
Second Source ID:	ICV-13065	**Concentration Units (mg/L or mg/kg):**	µg/L

Analyte	Expected	Found	%D	Q
Bromomethane	10	11.8	-18.2	
Carbon tetrachloride	10	10.6	-6.3	
Chlorobenzene	10	11	-9.5	
Chloroethane	10	11.2	-12.5	
Chloroform	10	11.1	-11.0	
Chloromethane	10	11.1	-11.1	
cis-1,2-Dichloroethene	10	11.6	-15.6	
cis-1,3-Dichloropropene	10	10.3	-3.4	
Dibromochloromethane	10	10.3	-3.1	
Dibromomethane	10	11.6	-15.8	
Dichlorodifluoromethane	10	11.3	-13.3	
Ethylbenzene	10	11.3	-13.1	
Hexachlorobutadiene	10	10.7	-7.2	
Isopropylbenzene	10	10.9	-9.4	
Methyl tert-butyl ether	10	11.8	-18.2	
Methylene chloride	10	10.2	-2.0	
n-Butylbenzene	10	10.3	-3.4	
n-Propylbenzene	10	11.7	-16.7	
Naphthalene	10	10.7	-7.1	
o-Xylene	10	11.8	-17.7	
p-Isopropyltoluene	10	10.7	-6.7	
sec-Butylbenzene	10	10.9	-8.8	
Styrene	10	9.8	2.0	
tert-Butylbenzene	10	10.9	-8.6	
Tetrachloroethene	10	10.3	-3.4	
Toluene	10	11.3	-13.0	
Toluene-d8	10	10.1	-0.7	
trans-1,2-Dichloroethene	10	11.7	-16.9	
trans-1,3-Dichloropropene	10	10.5	-4.8	
Trichloroethene	10	11.4	-14.1	
Trichlorofluoromethane	10	10.6	-6.3	
Vinyl chloride	10	11.4	-14.5	
Xylenes (total)	30	35.3	-17.8	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 5
CALIBRATION VERIFICATION

Analytical Method: 8260

AAB #:

Lab Name: Life Science Laboratories, Inc.

Contract #:

Instrument ID: HP5973 GCMS#1

Initial Calibration -ID: 1204

ICV ID: ICV-13065

CCV #1 ID: CCV-13058

SEE ATTACHED

Comments:

AFCEE FORM O-5

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\T1961.D
Acq On : 24 Mar 2008 11:18
Sample : CCV-13058
Misc : CCV ,8260WAF_40CAL,
MS Integration Params: RTEINT.P

Vial: 19
Operator: MT
Inst : #1MS11
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\T318AF31.M (RTE Integrator)
Title : VOC's w/Restek Rtx-VMS, 0.18 mm x 40 m, 1.0 df
Last Update : Tue Mar 25 17:20:35 2008
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	98	0.00
2		Dichlorodifluoromethane	0.299	0.372	-24.4#	104	0.00
3	P	Chloromethane	0.389	0.375	3.6	86	0.00
4	CP	Vinyl chloride	0.324	0.338	-4.3	90	0.00
5		Bromomethane	0.140	0.159	-13.6	107	0.00
6		Chloroethane	0.179	0.186	-3.9	92	0.00
7		Trichlorofluoromethane	0.387	0.495	-27.9#	109	0.00
8		Acetone	0.052	0.056	-7.7	108	0.00
9	CPM	1,1-Dichloroethene	0.180	0.184	-2.2	86	0.00
10		Methylene chloride	0.255	0.242	5.1	89	0.00
11		trans-1,2-Dichloroethene	0.225	0.228	-1.3	85	0.00
12		Methyl tert-Butyl ether	0.527	0.606	-15.0	97	0.00
13	P	1,1-Dichloroethane	0.457	0.445	2.6	85	0.00
14		2-Butanone	0.066	0.072	-9.1	102	0.00
		cis-1,2-Dichloroethene	0.254	0.252	0.8	87	0.00
16		Bromochloromethane	0.102	0.109	-6.9	92	0.00
17	CP	Chloroform	0.429	0.448	-4.4	93	0.00
18		2,2-Dichloropropane	0.385	0.429	-11.4	95	0.00
19	S	1,2-Dichloroethane-d4	0.245	0.269	-9.8	96	0.00
20		1,2-Dichloroethane	0.293	0.322	-9.9	97	0.00
21		1,1,1-Trichloroethane	0.372	0.421	-13.2	95	0.00
22		1,1-Dichloropropene	0.342	0.352	-2.9	86	0.00
23		Carbon tetrachloride	0.263	0.331	-25.9#	106	0.00
24	M	Benzene	1.093	1.059	3.1	84	0.00
25	M	Trichloroethene	0.259	0.268	-3.5	89	0.00
26		Dibromomethane	0.111	0.120	-8.1	95	0.00
27	CP	1,2-Dichloropropane	0.256	0.238	7.0	81	0.00
28		Bromodichloromethane	0.275	0.310	-12.7	99	0.00
29		4-Methyl-2-pentanone	0.138	0.156	-13.0	104	0.00
30		cis-1,3-Dichloropropene	0.369	0.384	-4.1	91	0.00
31	S	Toluene-d8	0.943	0.971	-3.0	88	0.00
32	CPM	Toluene	0.728	0.730	-0.3	87	0.00
33		trans-1,3-Dichloropropene	0.297	0.326	-9.8	95	0.00
34		1,1,2-Trichloroethane	0.141	0.147	-4.3	91	0.00
35	I	Chlorobenzene-d5	1.000	1.000	0.0	101	0.00
36		1,2-Dibromoethane	0.355	0.375	-5.6	98	0.00
37		1,3-Dichloropropane	0.747	0.746	0.1	92	0.00
38		Dibromochloromethane	0.385	0.458	-19.0	108	0.00
39		Tetrachloroethene	0.630	0.678	-7.6	94	0.00
40		1-Chlorohexane	0.869	0.865	0.5	88	0.00

(#) = Out of Range

MT 3-25-08

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\T1961.D Vial: 19
Acq On : 24 Mar 2008 11:18 Operator: MT
Sample : CCV-13058 Inst : #1MS11
Misc : CCV ,8260WAF_40CAL, Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\T318AF31.M (RTE Integrator)
Title : VOC's w/Restek Rtx-VMS, 0.18 mm x 40 m, 1.0 df
Last Update : Tue Mar 25 17:20:35 2008
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
41		1,1,1,2-Tetrachloroethane	0.456	0.511	-12.1	101	0.00
42	PM	Chlorobenzene	1.708	1.724	-0.9	92	0.00
43	CP	Ethylbenzene	3.255	3.252	0.1	89	0.00
44		(m+p)-Xylene	1.209	1.214	-0.4	89	0.00
45		o-Xylene	1.175	1.192	-1.4	90	0.00
46		Styrene	1.908	1.936	-1.5	89	0.00
47	P	Bromoform	0.210	0.268	-27.6#	118	0.00
48	S	Bromofluorobenzene	0.875	0.895	-2.3	95	0.00
49	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	109	0.00
50	P	1,1,2,2-Tetrachloroethane	0.558	0.531	4.8	96	0.00
51		Isopropylbenzene	3.950	3.791	4.0	91	0.00
52		1,2,3-Trichloropropane	0.501	0.495	1.2	99	0.00
53		Bromobenzene	0.858	0.830	3.3	96	0.00
[illegible]		n-Propylbenzene	4.683	4.486	4.2	90	0.00
[illegible]		2-Chlorotoluene	3.125	2.944	5.8	91	0.00
56		4-Chlorotoluene	2.764	2.640	4.5	93	0.00
57		1,3,5-Trimethylbenzene	3.262	3.158	3.2	92	0.00
58		tert-Butylbenzene	2.849	2.819	1.1	93	0.00
59		1,2,4-Trimethylbenzene	2.977	2.788	6.3	89	0.00
60		sec-Butylbenzene	4.197	4.151	1.1	91	0.00
61		1,3-Dichlorobenzene	1.694	1.675	1.1	97	0.00
62		p-Isopropyltoluene	3.396	3.308	2.6	90	0.00
63		1,4-Dichlorobenzene	1.644	1.614	1.8	97	0.00
64		n-Butylbenzene	2.678	2.460	8.1	85	0.00
65		1,2-Dichlorobenzene	1.539	1.503	2.3	97	0.00
66		1,2-Dibromo-3-chloropropane	0.081	0.094	-16.0	110	0.00
67		1,2,4-Trichlorobenzene	0.862	0.853	1.0	98	0.00
68		Hexachlorobutadiene	0.660	0.741	-12.3	107	0.00
69		Naphthalene	1.044	1.015	2.8	99	0.00
70		1,2,3-Trichlorobenzene	0.808	0.821	-1.6	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\T1961.D
Acq On : 24 Mar 2008 11:18
Sample : CCV-13058
Misc : CCV ,8260WAF_40CAL,
MS Integration Params: RTEINT.P

Vial: 19
Operator: MT
Inst : #1MS11
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\T318AF31.M (RTE Integrator)
Title : VOC's w/Restek Rtx-VMS, 0.18 mm x 40 m, 1.0 df
Last Update : Tue Mar 25 17:20:35 2008
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	10.000	10.000	0.0	98	0.00
2		Dichlorodifluoromethane	10.000	11.225	-12.2	104	0.00
3	P	Chloromethane	10.000	9.644	3.6	86	0.00
4	CP	Vinyl chloride	10.000	10.448	-4.5	90	0.00
5		Bromomethane	10.000	11.400	-14.0	107	0.00
6		Chloroethane	10.000	10.414	-4.1	92	0.00
7		Trichlorofluoromethane	10.000	11.588	-15.9	109	0.00
8		Acetone	20.000	21.779	-8.9	108	0.00
9	CPM	1,1-Dichloroethene	10.000	9.316	6.8	86	0.00
10		Methylene chloride	10.000	9.512	4.9	89	0.00
11		trans-1,2-Dichloroethene	10.000	10.132	-1.3	85	0.00
12		Methyl tert-Butyl ether	10.000	11.500	-15.0	97	0.00
13	P	1,1-Dichloroethane	10.000	9.750	2.5	85	0.00
14		2-Butanone	20.000	21.600	-8.0	102	0.00
15		cis-1,2-Dichloroethene	10.000	9.951	0.5	87	0.00
16		Bromochloromethane	10.000	10.757	-7.6	92	0.00
17	CP	Chloroform	10.000	10.444	-4.4	93	0.00
18		2,2-Dichloropropane	10.000	11.133	-11.3	95	0.00
19	S	1,2-Dichloroethane-d4	10.000	10.955	-9.6	96	0.00
20		1,2-Dichloroethane	10.000	10.969	-9.7	97	0.00
21		1,1,1-Trichloroethane	10.000	10.240	-2.4	95	0.00
22		1,1-Dichloropropene	10.000	9.315	6.9	86	0.00
23		Carbon tetrachloride	10.000	10.781	-7.8	106	0.00
24	M	Benzene	10.000	9.696	3.0	84	0.00
25	M	Trichloroethene	10.000	10.338	-3.4	89	0.00
26		Dibromomethane	10.000	10.803	-8.0	95	0.00
27	CP	1,2-Dichloropropane	10.000	9.271	7.3	81	0.00
28		Bromodichloromethane	10.000	10.244	-2.4	99	0.00
29		4-Methyl-2-pentanone	20.000	22.661	-13.3	104	0.00
30		cis-1,3-Dichloropropene	10.000	9.465	5.4	91	0.00
31	S	Toluene-d8	10.000	10.302	-3.0	88	0.00
32	CPM	Toluene	10.000	10.027	-0.3	87	0.00
33		trans-1,3-Dichloropropene	10.000	9.849	1.5	95	0.00
34		1,1,2-Trichloroethane	10.000	10.396	-4.0	91	0.00
35	I	Chlorobenzene-d5	10.000	10.000	0.0	101	0.00
36		1,2-Dibromoethane	10.000	10.583	-5.8	98	0.00
37		1,3-Dichloropropane	10.000	9.987	0.1	92	0.00
38		Dibromochloromethane	10.000	10.349	-3.5	108	0.00
39		Tetrachloroethene	10.000	9.819	1.8	94	0.00
40		1-Chlorohexane	10.000	9.017	9.8	88	0.00

(#) = Out of Range

MT 3-25-08

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\T1961.D Vial: 19
Acq On : 24 Mar 2008 11:18 Operator: MT
Sample : CCV-13058 Inst : #1MS11
Misc : CCV ,8260WAF_40CAL, Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\T318AF31.M (RTE Integrator)
Title : VOC's w/Restek Rtx-VMS, 0.18 mm x 40 m, 1.0 df
Last Update : Tue Mar 25 17:20:35 2008
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
41		1,1,1,2-Tetrachloroethane	10.000	9.938	0.6	101	0.00
42	PM	Chlorobenzene	10.000	10.097	-1.0	92	0.00
43	CP	Ethylbenzene	10.000	9.990	0.1	89	0.00
44		(m+p)-Xylene	20.000	20.079	-0.4	89	0.00
45		o-Xylene	10.000	10.140	-1.4	90	0.00
46		Styrene	10.000	9.203	8.0	89	0.00
47	P	Bromoform	10.000	10.685	-6.9	118	0.00
48	S	Bromofluorobenzene	10.000	9.870	1.3	95	0.00
49	I	1,4-Dichlorobenzene-d4	10.000	10.000	0.0	109	0.00
50	P	1,1,2,2-Tetrachloroethane	10.000	9.517	4.8	96	0.00
51		Isopropylbenzene	10.000	9.596	4.0	91	0.00
52		1,2,3-Trichloropropane	10.000	9.870	1.3	99	0.00
53		Bromobenzene	10.000	9.679	3.2	96	0.00
		n-Propylbenzene	10.000	9.578	4.2	90	0.00
55		2-Chlorotoluene	10.000	9.421	5.8	91	0.00
56		4-Chlorotoluene	10.000	9.548	4.5	93	0.00
57		1,3,5-Trimethylbenzene	10.000	9.681	3.2	92	0.00
58		tert-Butylbenzene	10.000	9.046	9.5	93	0.00
59		1,2,4-Trimethylbenzene	10.000	8.439	15.6	89	0.00
60		sec-Butylbenzene	10.000	8.940	10.6	91	0.00
61		1,3-Dichlorobenzene	10.000	9.887	1.1	97	0.00
62		p-Isopropyltoluene	10.000	8.676	13.2	90	0.00
63		1,4-Dichlorobenzene	10.000	9.820	1.8	97	0.00
64		n-Butylbenzene	10.000	8.123	18.8	85	0.00
65		1,2-Dichlorobenzene	10.000	9.767	2.3	97	0.00
66		1,2-Dibromo-3-chloropropane	10.000	10.083	-0.8	110	0.00
67		1,2,4-Trichlorobenzene	10.000	8.671	13.3	98	0.00
68		Hexachlorobutadiene	10.000	9.929	0.7	107	0.00
69		Naphthalene	10.000	8.929	10.7	99	0.00
70		1,2,3-Trichlorobenzene	10.000	8.917	10.8	100	0.00

AFCEE
ORGANIC ANALYSES DATA SHEET 5
CALIBRATION VERIFICATION

Analytical Method: 8260

AAB #:

Lab Name: Life Science Laboratories, Inc.

Contract #:

Instrument ID: HP5973 GCMS#1

Initial Calibration -ID: 1204

ICV ID: ICV-13065

CCV #1 ID: CCV-13066

SEE ATTACHED

Comments:

AFCEE FORM O-5

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\T1982.D
Acq On : 25 Mar 2008 10:54
Sample : CCV-13066
Misc : CCV ,8260WAF_40CAL,
MS Integration Params: RTEINT.P

Vial: 17
Operator: MT
Inst : #1MS11
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\T318AF31.M (RTE Integrator)
Title : VOC's w/Restek Rtx-VMS, 0.18 mm x 40 m, 1.0 df
Last Update : Wed Mar 26 15:15:39 2008
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	95	0.00
2		Dichlorodifluoromethane	0.299	0.339	-13.4	93	0.00
3	P	Chloromethane	0.389	0.343	11.8	77	0.00
4	CP	Vinyl chloride	0.324	0.320	1.2	83	0.00
5		Bromomethane	0.140	0.149	-6.4	98	0.00
6		Chloroethane	0.179	0.180	-0.6	87	0.00
7		Trichlorofluoromethane	0.387	0.487	-25.8#	105	0.00
8		Acetone	0.052	0.052	0.0	98	0.00
9	CPM	1,1-Dichloroethene	0.180	0.181	-0.6	82	0.00
10		Methylene chloride	0.255	0.228	10.6	82	0.00
11		trans-1,2-Dichloroethene	0.225	0.222	1.3	81	0.00
12		Methyl tert-Butyl ether	0.527	0.587	-11.4	92	0.00
13	P	1,1-Dichloroethane	0.457	0.437	4.4	81	0.00
14		2-Butanone	0.066	0.066	0.0	92	0.00
		cis-1,2-Dichloroethene	0.254	0.254	0.0	86	0.00
[illegible]		Bromochloromethane	0.102	0.106	-3.9	88	0.00
17	CP	Chloroform	0.429	0.438	-2.1	88	0.00
18		2,2-Dichloropropane	0.385	0.419	-8.8	91	0.00
19	S	1,2-Dichloroethane-d4	0.245	0.260	-6.1	91	0.00
20		1,2-Dichloroethane	0.293	0.307	-4.8	91	0.00
21		1,1,1-Trichloroethane	0.372	0.409	-9.9	90	0.00
22		1,1-Dichloropropene	0.342	0.337	1.5	81	0.00
23		Carbon tetrachloride	0.263	0.307	-16.7	96	0.00
24	M	Benzene	1.093	1.032	5.6	80	0.00
25	M	Trichloroethene	0.259	0.261	-0.8	85	0.00
26		Dibromomethane	0.111	0.115	-3.6	89	0.00
27	CP	1,2-Dichloropropane	0.256	0.237	7.4	79	0.00
28		Bromodichloromethane	0.275	0.299	-8.7	93	0.00
29		4-Methyl-2-pentanone	0.138	0.139	-0.7	91	0.00
30		cis-1,3-Dichloropropene	0.369	0.367	0.5	85	0.00
31	S	Toluene-d8	0.943	0.943	0.0	84	0.00
32	CPM	Toluene	0.728	0.717	1.5	83	0.00
33		trans-1,3-Dichloropropene	0.297	0.316	-6.4	90	0.00
34		1,1,2-Trichloroethane	0.141	0.142	-0.7	86	0.00
35	I	Chlorobenzene-d5	1.000	1.000	0.0	98	0.00
36		1,2-Dibromoethane	0.355	0.368	-3.7	93	0.00
37		1,3-Dichloropropane	0.747	0.725	2.9	86	0.00
38		Dibromochloromethane	0.385	0.436	-13.2	100	0.00
[illegible]		Tetrachloroethene	0.630	0.657	-4.3	88	0.00
		1-Chlorohexane	0.869	0.842	3.1	83	0.00

(#) = Out of Range

MT 3-26-08

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\T1982.D
Acq On : 25 Mar 2008 10:54
Sample : CCV-13066
Misc : CCV ,8260WAF_40CAL,
MS Integration Params: RTEINT.P

Vial: 17
Operator: MT
Inst : #1MS11
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\T318AF31.M (RTE Integrator)
Title : VOC's w/Restek Rtx-VMS, 0.18 mm x 40 m, 1.0 df
Last Update : Wed Mar 26 15:15:39 2008
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
41		1,1,1,2-Tetrachloroethane	0.456	0.514	-12.7	99	0.00
42	PM	Chlorobenzene	1.708	1.678	1.8	87	0.00
43	CP	Ethylbenzene	3.255	3.201	1.7	85	0.00
44		(m+p)-Xylene	1.209	1.195	1.2	85	0.00
45		o-Xylene	1.175	1.162	1.1	86	0.00
46		Styrene	1.908	1.928	-1.0	86	0.00
47	P	Bromoform	0.210	0.254	-21.0#	109	0.00
48	S	Bromofluorobenzene	0.875	0.861	1.6	89	0.00
49	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	106	0.00
50	P	1,1,2,2-Tetrachloroethane	0.558	0.514	7.9	90	0.00
51		Isopropylbenzene	3.950	3.759	4.8	87	0.00
52		1,2,3-Trichloropropane	0.501	0.468	6.6	91	0.00
53		Bromobenzene	0.858	0.823	4.1	92	0.00
		n-Propylbenzene	4.683	4.389	6.3	85	0.00
[illegible]		2-Chlorotoluene	3.125	2.895	7.4	87	0.00
56		4-Chlorotoluene	2.764	2.575	6.8	88	0.00
57		1,3,5-Trimethylbenzene	3.262	3.144	3.6	89	0.00
58		tert-Butylbenzene	2.849	2.794	1.9	89	0.00
59		1,2,4-Trimethylbenzene	2.977	2.814	5.5	87	0.00
60		sec-Butylbenzene	4.197	4.072	3.0	87	0.00
61		1,3-Dichlorobenzene	1.694	1.626	4.0	91	0.00
62		p-Isopropyltoluene	3.396	3.286	3.2	87	0.00
63		1,4-Dichlorobenzene	1.644	1.573	4.3	92	0.00
64		n-Butylbenzene	2.678	2.421	9.6	81	0.00
65		1,2-Dichlorobenzene	1.539	1.474	4.2	93	0.00
66		1,2-Dibromo-3-chloropropane	0.081	0.083	-2.5	94	0.00
67		1,2,4-Trichlorobenzene	0.862	0.846	1.9	94	0.00
68		Hexachlorobutadiene	0.660	0.707	-7.1	98	0.00
69		Naphthalene	1.044	1.010	3.3	95	0.00
70		1,2,3-Trichlorobenzene	0.808	0.809	-0.1	95	0.00

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\T1982.D
Acq On : 25 Mar 2008 10:54
Sample : CCV-13066
Misc : CCV ,8260WAF_40CAL,
MS Integration Params: RTEINT.P

Vial: 17
Operator: MT
Inst : #1MS11
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\T318AF31.M (RTE Integrator)
Title : VOC's w/Restek Rtx-VMS, 0.18 mm x 40 m, 1.0 df
Last Update : Wed Mar 26 15:15:39 2008
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	10.000	10.000	0.0	95	0.00
2		Dichlorodifluoromethane	10.000	10.221	-2.2	93	0.00
3	P	Chloromethane	10.000	8.809	11.9	77	0.00
4	CP	Vinyl chloride	10.000	9.891	1.1	83	0.00
5		Bromomethane	10.000	10.672	-6.7	98	0.00
6		Chloroethane	10.000	10.088	-0.9	87	0.00
7		Trichlorofluoromethane	10.000	11.400	-14.0	105	0.00
8		Acetone	20.000	20.079	-0.4	98	0.00
9	CPM	1,1-Dichloroethene	10.000	9.171	8.3	82	0.00
10		Methylene chloride	10.000	8.951	10.5	82	0.00
11		trans-1,2-Dichloroethene	10.000	9.846	1.5	81	0.00
12		Methyl tert-Butyl ether	10.000	11.141	-11.4	92	0.00
13	P	1,1-Dichloroethane	10.000	9.569	4.3	81	0.00
14		2-Butanone	20.000	19.833	0.8	92	0.00
		cis-1,2-Dichloroethene	10.000	10.025	-0.3	86	0.00
16		Bromochloromethane	10.000	10.482	-4.8	88	0.00
17	CP	Chloroform	10.000	10.195	-2.0	88	0.00
18		2,2-Dichloropropane	10.000	10.882	-8.8	91	0.00
19	S	1,2-Dichloroethane-d4	10.000	10.593	-5.9	91	0.00
20		1,2-Dichloroethane	10.000	10.473	-4.7	91	0.00
21		1,1,1-Trichloroethane	10.000	9.952	0.5	90	0.00
22		1,1-Dichloropropene	10.000	8.933	10.7	81	0.00
23		Carbon tetrachloride	10.000	10.045	-0.4	96	0.00
24	M	Benzene	10.000	9.442	5.6	80	0.00
25	M	Trichloroethene	10.000	10.064	-0.6	85	0.00
26		Dibromomethane	10.000	10.397	-4.0	89	0.00
27	CP	1,2-Dichloropropane	10.000	9.252	7.5	79	0.00
28		Bromodichloromethane	10.000	9.889	1.1	93	0.00
29		4-Methyl-2-pentanone	20.000	20.164	-0.8	91	0.00
30		cis-1,3-Dichloropropene	10.000	9.065	9.4	85	0.00
31	S	Toluene-d8	10.000	10.009	-0.1	84	0.00
32	CPM	Toluene	10.000	9.839	1.6	83	0.00
33		trans-1,3-Dichloropropene	10.000	9.550	4.5	90	0.00
34		1,1,2-Trichloroethane	10.000	10.094	-0.9	86	0.00
35	I	Chlorobenzene-d5	10.000	10.000	0.0	98	0.00
36		1,2-Dibromoethane	10.000	10.381	-3.8	93	0.00
37		1,3-Dichloropropane	10.000	9.705	2.9	86	0.00
38		Dibromochloromethane	10.000	9.885	1.2	100	0.00
[illegible]		Tetrachloroethene	10.000	9.514	4.9	88	0.00
[illegible]		1-Chlorohexane	10.000	8.788	12.1	83	0.00

(#) = Out of Range

KI 3-26-08

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\T1982.D Vial: 17
Acq On : 25 Mar 2008 10:54 Operator: MT
Sample : CCV-13066 Inst : #1MS11
Misc : CCV ,8260WAF_40CAL, Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\T318AF31.M (RTE Integrator)
Title : VOC's w/Restek Rtx-VMS, 0.18 mm x 40 m, 1.0 df
Last Update : Wed Mar 26 15:15:39 2008
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
41		1,1,1,2-Tetrachloroethane	10.000	9.987	0.1	99	0.00
42	PM	Chlorobenzene	10.000	9.826	1.7	87	0.00
43	CP	Ethylbenzene	10.000	9.831	1.7	85	0.00
44		(m+p)-Xylene	20.000	19.756	1.2	85	0.00
45		o-Xylene	10.000	9.887	1.1	86	0.00
46		Styrene	10.000	9.164	8.4	86	0.00
47	P	Bromoform	10.000	10.185	-1.9	109	0.00
48	S	Bromofluorobenzene	10.000	9.499	5.0	89	0.00
49	I	1,4-Dichlorobenzene-d4	10.000	10.000	0.0	106	0.00
50	P	1,1,2,2-Tetrachloroethane	10.000	9.198	8.0	90	0.00
51		Isopropylbenzene	10.000	9.515	4.8	87	0.00
52		1,2,3-Trichloropropane	10.000	9.343	6.6	91	0.00
53		Bromobenzene	10.000	9.599	4.0	92	0.00
		n-Propylbenzene	10.000	9.372	6.3	85	0.00
[illegible]		2-Chlorotoluene	10.000	9.262	7.4	87	0.00
56		4-Chlorotoluene	10.000	9.315	6.9	88	0.00
57		1,3,5-Trimethylbenzene	10.000	9.639	3.6	89	0.00
58		tert-Butylbenzene	10.000	8.966	10.3	89	0.00
59		1,2,4-Trimethylbenzene	10.000	8.515	14.8	87	0.00
60		sec-Butylbenzene	10.000	8.771	12.3	87	0.00
61		1,3-Dichlorobenzene	10.000	9.599	4.0	91	0.00
62		p-Isopropyltoluene	10.000	8.621	13.8	87	0.00
63		1,4-Dichlorobenzene	10.000	9.573	4.3	92	0.00
64		n-Butylbenzene	10.000	8.000	20.0	81	0.00
65		1,2-Dichlorobenzene	10.000	9.581	4.2	93	0.00
66		1,2-Dibromo-3-chloropropane	10.000	8.946	10.5	94	0.00
67		1,2,4-Trichlorobenzene	10.000	8.607	13.9	94	0.00
68		Hexachlorobutadiene	10.000	9.490	5.1	98	0.00
69		Naphthalene	10.000	8.896	11.0	95	0.00
70		1,2,3-Trichlorobenzene	10.000	8.792	12.1	95	0.00

AFCEE
ORGANIC ANALYSES DATA SHEET 5
CALIBRATION VERIFICATION

Analytical Method: 8260B

AAB #:

Lab Name: Life Science Laboratories, Inc.

Contract #:

Instrument ID: HP5970 GCMS#2

Initial Calibration -ID: 1212

ICV ID: ICV-13052

CCV #1 ID: CCV-13111

SEE ATTACHED

Comments:

AFCEE FORM O-5

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\M4724.D
Acq On : 28 Mar 2008 10:06
Sample : CCV-13111
Misc : CCV ,8260WAF_40CAL,
MS Integration Params: RTEINT.P

Vial: 2
Operator: GS
Inst : #2MS12
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\M324AF31.M (RTE Integrator)
Title : VOC's w/Restek RTX-502.2, 0.53mm x 105m, 3.0 df
Last Update : Tue Apr 01 09:12:14 2008
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	95	0.00
2		Dichlorodifluoromethane	0.711	0.742	-4.4	81	0.00
3	P	Chloromethane	0.257	0.252	1.9	83	0.00
4	CP	Vinyl chloride	0.221	0.247	-11.8	85	0.00
5		Bromomethane	0.232	0.203	12.5	74	0.00
6		Chloroethane	0.133	0.162	-21.8#	86	0.00
7		Trichlorofluoromethane	0.642	0.717	-11.7	90	0.00
8		Acetone	0.026	0.026#	0.0	93	0.00
9	CPM	1,1-Dichloroethene	0.211	0.241	-14.2	96	0.00
10		Methylene chloride	0.294	0.307	-4.4	108	0.00
11		trans-1,2-Dichloroethene	0.292	0.329	-12.7	97	0.00
12		Methyl tert-Butyl ether	0.358	0.429	-19.8	111	0.00
13	P	1,1-Dichloroethane	0.543	0.582	-7.2	95	0.00
14		2-Butanone	0.042	0.043#	-2.4	90	0.00
		cis-1,2-Dichloroethene	0.306	0.340	-11.1	98	0.00
16		Bromochloromethane	0.176	0.192	-9.1	97	0.00
17	CP	Chloroform	0.676	0.708	-4.7	95	0.00
18		2,2-Dichloropropane	0.413	0.469	-13.6	96	0.00
19	S	1,2-Dichloroethane-d4	0.227	0.247	-8.8	101	0.00
20		1,2-Dichloroethane	0.269	0.295	-9.7	101	0.00
21		1,1,1-Trichloroethane	0.514	0.566	-10.1	93	0.00
22		1,1-Dichloropropene	0.410	0.466	-13.7	95	0.00
23		Carbon tetrachloride	0.517	0.568	-9.9	91	0.00
24	M	Benzene	0.789	0.831	-5.3	92	0.00
25	M	Trichloroethene	0.410	0.440	-7.3	93	0.00
26		Dibromomethane	0.284	0.311	-9.5	100	0.00
27	CP	1,2-Dichloropropane	0.298	0.326	-9.4	98	0.00
28		Bromodichloromethane	0.675	0.760	-12.6	98	0.00
29		4-Methyl-2-pentanone	0.097	0.115	-18.6	123	0.00
30		cis-1,3-Dichloropropene	0.416	0.466	-12.0	98	0.00
31	S	Toluene-d8	0.780	0.838	-7.4	94	0.00
32	CPM	Toluene	0.501	0.541	-8.0	93	0.00
33		trans-1,3-Dichloropropene	0.275	0.310	-12.7	99	0.00
34		1,1,2-Trichloroethane	0.193	0.220	-14.0	102	0.00
35	I	Chlorobenzene-d5	1.000	1.000	0.0	93	0.00
36		1,2-Dibromoethane	0.651	0.734	-12.7	101	0.00
37		1,3-Dichloropropane	0.634	0.735	-15.9	102	0.00
38		Dibromochloromethane	0.981	1.125	-14.7	99	0.00
		Tetrachloroethene	0.900	0.998	-10.9	91	0.00
		1-Chlorohexane	0.604	0.717	-18.7	94	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\M4724.D
Acq On : 28 Mar 2008 10:06
Sample : CCV-13111
Misc : CCV ,8260WAF_40CAL,
MS Integration Params: RTEINT.P

Vial: 2
Operator: GS
Inst : #2MS12
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\M324AF31.M (RTE Integrator)
Title : VOC's w/Restek RTX-502.2, 0.53mm x 105m, 3.0 df
Last Update : Tue Apr 01 09:12:14 2008
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
41		1,1,1,2-Tetrachloroethane	0.707	0.766	-8.3	94	0.00
42	PM	Chlorobenzene	1.268	1.390	-9.6	94	0.00
43	CP	Ethylbenzene	1.687	1.938	-14.9	97	0.00
44		(m+p)-Xylene	0.605	0.672	-11.1	93	0.00
45		o-Xylene	0.608	0.683	-12.3	94	0.00
46		Styrene	0.999	1.147	-14.8	96	0.00
47	P	Bromoform	0.546	0.635	-16.3	101	0.00
48	S	Bromofluorobenzene	1.191	1.295	-8.7	97	0.00
49	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	96	0.00
50	P	1,1,2,2-Tetrachloroethane	0.970	1.075	-10.8	107	0.00
51		Isopropylbenzene	2.622	2.900	-10.6	95	0.00
52		1,2,3-Trichloropropane	0.585	0.631	-7.9	96	0.07
53		Bromobenzene	1.042	1.077	-3.4	95	0.00
		n-Propylbenzene	2.928	3.210	-9.6	94	0.00
55		2-Chlorotoluene	2.518	2.627	-4.3	98	0.00
56		4-Chlorotoluene	2.250	2.439	-8.4	91	0.00
57		1,3,5-Trimethylbenzene	1.663	1.799	-8.2	95	0.00
58		tert-Butylbenzene	1.785	1.970	-10.4	95	0.00
59		1,2,4-Trimethylbenzene	1.466	1.578	-7.6	95	0.00
60		sec-Butylbenzene	2.451	2.706	-10.4	93	0.00
61		1,3-Dichlorobenzene	1.564	1.667	-6.6	96	0.00
62		p-Isopropyltoluene	1.702	1.845	-8.4	93	0.00
63		1,4-Dichlorobenzene	1.408	1.493	-6.0	97	0.00
64		n-Butylbenzene	1.403	1.535	-9.4	93	0.00
65		1,2-Dichlorobenzene	1.402	1.446	-3.1	94	0.00
66		1,2-Dibromo-3-chloropropane	0.160	0.180	-12.5	108	0.00
67		1,2,4-Trichlorobenzene	0.573	0.629	-9.8	98	0.00
68		Hexachlorobutadiene	0.644	0.661	-2.6	88	0.00
69		Naphthalene	0.399	0.440	-10.3	115	0.00
70		1,2,3-Trichlorobenzene	0.422	0.500	-18.5	109	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\M4724.D
Acq On : 28 Mar 2008 10:06
Sample : CCV-13111
Misc : CCV ,8260WAF_40CAL,
MS Integration Params: RTEINT.P

Vial: 2
Operator: GS
Inst : #2MS12
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\M324AF31.M (RTE Integrator)
Title : VOC's w/Restek RTX-502.2, 0.53mm x 105m, 3.0 df
Last Update : Tue Apr 01 09:12:14 2008
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	10.000	10.000	0.0	95	0.00
2		Dichlorodifluoromethane	10.000	9.519	4.8	81	0.00
3	P	Chloromethane	10.000	9.821	1.8	83	0.00
4	CP	Vinyl chloride	10.000	9.817	1.8	85	0.00
5		Bromomethane	10.000	8.117	18.8	74	0.00
6		Chloroethane	10.000	10.019	-0.2	86	0.00
7		Trichlorofluoromethane	10.000	10.110	-1.1	90	0.00
8		Acetone	20.000	19.377	3.1	93	0.00
9	CPM	1,1-Dichloroethene	10.000	10.267	-2.7	96	0.00
10		Methylene chloride	10.000	11.297	-13.0	108	0.00
11		trans-1,2-Dichloroethene	10.000	10.135	-1.3	97	0.00
12		Methyl tert-Butyl ether	10.000	11.989	-19.9	111	0.00
13	P	1,1-Dichloroethane	10.000	10.709	-7.1	95	0.00
14		2-Butanone	20.000	20.726	-3.6	90	0.00
		cis-1,2-Dichloroethene	10.000	11.098	-11.0	98	0.00
16		Bromochloromethane	10.000	10.922	-9.2	97	0.00
17	CP	Chloroform	10.000	10.473	-4.7	95	0.00
18		2,2-Dichloropropane	10.000	10.257	-2.6	96	0.00
19	S	1,2-Dichloroethane-d4	10.000	10.907	-9.1	101	0.00
20		1,2-Dichloroethane	10.000	10.965	-9.6	101	0.00
21		1,1,1-Trichloroethane	10.000	9.856	1.4	93	0.00
22		1,1-Dichloropropene	10.000	10.064	-0.6	95	0.00
23		Carbon tetrachloride	10.000	9.674	3.3	91	0.00
24	M	Benzene	10.000	10.540	-5.4	92	0.00
25	M	Trichloroethene	10.000	10.728	-7.3	93	0.00
26		Dibromomethane	10.000	10.924	-9.2	100	0.00
27	CP	1,2-Dichloropropane	10.000	10.917	-9.2	98	0.00
28		Bromodichloromethane	10.000	11.261	-12.6	98	0.00
29		4-Methyl-2-pentanone	20.000	23.705	-18.5	123	0.00
30		cis-1,3-Dichloropropene	10.000	11.192	-11.9	98	0.00
31	S	Toluene-d8	10.000	10.746	-7.5	94	0.00
32	CPM	Toluene	10.000	10.809	-8.1	93	0.00
33		trans-1,3-Dichloropropene	10.000	10.034	-0.3	99	0.00
34		1,1,2-Trichloroethane	10.000	11.444	-14.4	102	0.00
35	I	Chlorobenzene-d5	10.000	10.000	0.0	93	0.00
36		1,2-Dibromoethane	10.000	11.267	-12.7	101	0.00
37		1,3-Dichloropropane	10.000	11.581	-15.8	102	0.00
38		Dibromochloromethane	10.000	11.465	-14.7	99	0.00
		Tetrachloroethene	10.000	11.085	-10.9	91	0.00
		1-Chlorohexane	10.000	10.266	-2.7	94	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\M4724.D Vial: 2
Acq On : 28 Mar 2008 10:06 Operator: GS
Sample : CCV-13111 Inst : #2MS12
Misc : CCV ,8260WAF_40CAL, Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\M324AF31.M (RTE Integrator)
Title : VOC's w/Restek RTX-502.2, 0.53mm x 105m, 3.0 df
Last Update : Tue Apr 01 09:12:14 2008
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
41		1,1,1,2-Tetrachloroethane	10.000	10.833	-8.3	94	0.00
42	PM	Chlorobenzene	10.000	10.964	-9.6	94	0.00
43	CP	Ethylbenzene	10.000	11.490	-14.9	97	0.00
44		(m+p)-Xylene	20.000	19.953	0.2	93	0.00
45		o-Xylene	10.000	9.981	0.2	94	0.00
46		Styrene	10.000	10.165	-1.6	96	0.00
47	P	Bromoform	10.000	10.430	-4.3	101	0.00
48	S	Bromofluorobenzene	10.000	10.874	-8.7	97	0.00
49	I	1,4-Dichlorobenzene-d4	10.000	10.000	0.0	96	0.00
50	P	1,1,2,2-Tetrachloroethane	10.000	11.078	-10.8	107	0.00
51		Isopropylbenzene	10.000	11.062	-10.6	95	0.00
52		1,2,3-Trichloropropane	10.000	10.786	-7.9	96	0.07
53		Bromobenzene	10.000	10.329	-3.3	95	0.00
		n-Propylbenzene	10.000	10.964	-9.6	94	0.00
55		2-Chlorotoluene	10.000	10.434	-4.3	98	0.00
56		4-Chlorotoluene	10.000	10.842	-8.4	91	0.00
57		1,3,5-Trimethylbenzene	10.000	9.797	2.0	95	0.00
58		tert-Butylbenzene	10.000	9.907	0.9	95	0.00
59		1,2,4-Trimethylbenzene	10.000	9.671	3.3	95	0.00
60		sec-Butylbenzene	10.000	9.785	2.1	93	0.00
61		1,3-Dichlorobenzene	10.000	10.659	-6.6	96	0.00
62		p-Isopropyltoluene	10.000	9.482	5.2	93	0.00
63		1,4-Dichlorobenzene	10.000	10.604	-6.0	97	0.00
64		n-Butylbenzene	10.000	9.414	5.9	93	0.00
65		1,2-Dichlorobenzene	10.000	10.312	-3.1	94	0.00
66		1,2-Dibromo-3-chloropropane	10.000	11.284	-12.8	108	0.00
67		1,2,4-Trichlorobenzene	10.000	9.799	2.0	98	0.00
68		Hexachlorobutadiene	10.000	10.260	-2.6	88	0.00
69		Naphthalene	10.000	11.032	-10.3	115	0.00
70		1,2,3-Trichlorobenzene	10.000	10.627	-6.3	109	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

AFCEE
ORGANIC ANALYSES DATA SHEET 7
BLANKS

Analytical Method:	SW8260B	**AAB #:**	R13058
Lab Name:	Life Science Laboratories, Inc.	**Contract Number:**	
Units:	µg/L	**Method Blank ID:**	MB-13058
Initial Calibration ID:	1204	**File ID:**	T1964.D

Analyte	Method Blank	RL	Q
(m+p)-Xylene	0.100	2.00	U
1,1,1,2-Tetrachloroethane	0.250	0.500	U
1,1,1-Trichloroethane	0.160	1.00	U
1,1,2,2-Tetrachloroethane	0.160	0.500	U
1,1,2-Trichloroethane	0.250	1.00	U
1,1-Dichloroethane	0.160	1.00	U
1,1-Dichloroethene	0.250	1.00	U
1,1-Dichloropropene	0.250	1.00	U
1,2,3-Trichlorobenzene	0.500	1.00	U
1,2,3-Trichloropropane	1.00	2.00	U
1,2,4-Trichlorobenzene	0.500	1.00	U
1,2,4-Trimethylbenzene	0.160	1.00	U
1,2-Dibromo-3-chloropropane	2.50	5.00	U
1,2-Dibromoethane	0.250	1.00	U
1,2-Dichlorobenzene	0.160	1.00	U
1,2-Dichloroethane	0.250	0.500	U
1,2-Dichloropropane	0.160	1.00	U
1,3,5-Trimethylbenzene	0.160	1.00	U
1,3-Dichlorobenzene	0.160	1.00	U
1,3-Dichloropropane	0.160	0.500	U
1,4-Dichlorobenzene	0.160	0.500	U
1-Chlorohexane	0.250	1.00	U
2,2-Dichloropropane	0.500	1.00	U
2-Butanone	2.50	10.0	U
2-Chlorotoluene	0.100	1.00	U
4-Chlorotoluene	0.100	1.00	U
4-Methyl-2-pentanone	1.00	10.0	U
Acetone	2.50	10.0	U
Benzene	0.160	0.500	U
Bromobenzene	0.160	1.00	U
Bromochloromethane	0.160	1.00	U
Bromodichloromethane	0.160	0.500	U
Bromoform	0.500	1.00	U
Bromomethane	0.190	3.00	U
Carbon tetrachloride	0.250	1.00	U

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 7
BLANKS

Analytical Method:	SW8260B	**AAB #:**	R13058
Lab Name:	Life Science Laboratories, Inc.	**Contract Number:**	
Units:	µg/L	**Method Blank ID:**	MB-13058
Initial Calibration ID:	1204	**File ID:**	T1964.D

Analyte	Method Blank	RL	Q
Chlorobenzene	0.160	0.500	U
Chloroethane	0.500	1.00	U
Chloroform	0.100	0.500	U
Chloromethane	0.500	1.00	U
cis-1,2-Dichloroethene	0.160	1.00	U
cis-1,3-Dichloropropene	0.250	0.500	U
Dibromochloromethane	0.160	0.500	U
Dibromomethane	0.160	1.00	U
Dichlorodifluoromethane	0.250	1.00	U
Ethylbenzene	0.100	1.00	U
Hexachlorobutadiene	0.500	1.00	U
Isopropylbenzene	0.160	1.00	U
Methyl tert-butyl ether	0.500	5.00	U
Methylene chloride	0.160	1.00	U
n-Butylbenzene	0.160	1.00	U
n-Propylbenzene	0.100	1.00	U
Naphthalene	0.500	1.00	U
o-Xylene	0.160	1.00	U
p-Isopropyltoluene	0.160	1.00	U
sec-Butylbenzene	0.160	1.00	U
Styrene	0.160	1.00	U
tert-Butylbenzene	0.160	1.00	U
Tetrachloroethene	0.100	1.00	U
Toluene	0.100	1.00	U
trans-1,2-Dichloroethene	0.160	1.00	U
trans-1,3-Dichloropropene	0.250	1.00	U
Trichloroethene	0.100	1.00	U
Trichlorofluoromethane	0.100	1.00	U
Vinyl chloride	0.500	1.00	U
Xylenes (total)	0.260	2.00	U

Surrogate	Recovery	Control Limits	Qualifier
1,2-Dichloroethane-d4	107	72 - 119	
4-Bromofluorobenzene	100	76 - 119	
Toluene-d8	103	81 - 120	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 7
BLANKS

Analytical Method:	SW8260B	**AAB #:**	R13058
Lab Name:	Life Science Laboratories, Inc.	**Contract Number:**	
Units:	µg/L	**Method Blank ID:**	MB-13058
Initial Calibration ID:	1204	**File ID:**	T1964.D

Internal Std	Area Counts	Area Count Limits	Qualifier
1,4-Dichlorobenzene-d4	695100	306228 - 1224912	
Chlorobenzene-d5	804227	370666 - 1482666	
Fluorobenzene	1839333	849584 - 3398336	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 7
BLANKS

Analytical Method:	SW8260B	**AAB #:**	R13066
Lab Name:	Life Science Laboratories, Inc.	**Contract Number:**	
Units:	µg/L	**Method Blank ID:**	MB-13066
Initial Calibration ID:	1204	**File ID:**	T1986.D

Analyte	Method Blank	RL	Q
(m+p)-Xylene	0.100	2.00	U
1,1,1,2-Tetrachloroethane	0.250	0.500	U
1,1,1-Trichloroethane	0.160	1.00	U
1,1,2,2-Tetrachloroethane	0.160	0.500	U
1,1,2-Trichloroethane	0.250	1.00	U
1,1-Dichloroethane	0.160	1.00	U
1,1-Dichloroethene	0.250	1.00	U
1,1-Dichloropropene	0.250	1.00	U
1,2,3-Trichlorobenzene	0.500	1.00	U
1,2,3-Trichloropropane	1.00	2.00	U
1,2,4-Trichlorobenzene	0.500	1.00	U
1,2,4-Trimethylbenzene	0.160	1.00	U
1,2-Dibromo-3-chloropropane	2.50	5.00	U
1,2-Dibromoethane	0.250	1.00	U
1,2-Dichlorobenzene	0.160	1.00	U
1,2-Dichloroethane	0.250	0.500	U
1,2-Dichloropropane	0.160	1.00	U
1,3,5-Trimethylbenzene	0.160	1.00	U
1,3-Dichlorobenzene	0.160	1.00	U
1,3-Dichloropropane	0.160	0.500	U
1,4-Dichlorobenzene	0.160	0.500	U
1-Chlorohexane	0.250	1.00	U
2,2-Dichloropropane	0.500	1.00	U
2-Butanone	2.50	10.0	U
2-Chlorotoluene	0.100	1.00	U
4-Chlorotoluene	0.100	1.00	U
4-Methyl-2-pentanone	1.00	10.0	U
Acetone	2.50	10.0	U
Benzene	0.160	0.500	U
Bromobenzene	0.160	1.00	U
Bromochloromethane	0.160	1.00	U
Bromodichloromethane	0.160	0.500	U
Bromoform	0.500	1.00	U
Bromomethane	0.190	3.00	U
Carbon tetrachloride	0.250	1.00	U

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 7
BLANKS

Analytical Method:	SW8260B	**AAB #:**	R13066
Lab Name:	Life Science Laboratories, Inc.	**Contract Number:**	
Units:	µg/L	**Method Blank ID:**	MB-13066
Initial Calibration ID:	1204	**File ID:**	T1986.D

Analyte	Method Blank	RL	Q
Chlorobenzene	0.160	0.500	U
Chloroethane	0.500	1.00	U
Chloroform	0.100	0.500	U
Chloromethane	0.500	1.00	U
cis-1,2-Dichloroethene	0.160	1.00	U
cis-1,3-Dichloropropene	0.250	0.500	U
Dibromochloromethane	0.160	0.500	U
Dibromomethane	0.160	1.00	U
Dichlorodifluoromethane	0.250	1.00	U
Ethylbenzene	0.100	1.00	U
Hexachlorobutadiene	0.500	1.00	U
Isopropylbenzene	0.160	1.00	U
Methyl tert-butyl ether	0.500	5.00	U
Methylene chloride	0.160	1.00	U
n-Butylbenzene	0.160	1.00	U
n-Propylbenzene	0.100	1.00	U
Naphthalene	0.500	1.00	U
o-Xylene	0.160	1.00	U
p-Isopropyltoluene	0.160	1.00	U
sec-Butylbenzene	0.160	1.00	U
Styrene	0.160	1.00	U
tert-Butylbenzene	0.160	1.00	U
Tetrachloroethene	0.100	1.00	U
Toluene	0.100	1.00	U
trans-1,2-Dichloroethene	0.160	1.00	U
trans-1,3-Dichloropropene	0.250	1.00	U
Trichloroethene	0.100	1.00	U
Trichlorofluoromethane	0.100	1.00	U
Vinyl chloride	0.500	1.00	U
Xylenes (total)	0.260	2.00	U

Surrogate	Recovery	Control Limits	Qualifier
1,2-Dichloroethane-d4	108	72 - 119	
4-Bromofluorobenzene	96	76 - 119	
Toluene-d8	103	81 - 120	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 7
BLANKS

Analytical Method:	SW8260B	**AAB #:**	R13066
Lab Name:	Life Science Laboratories, Inc.	**Contract Number:**	
Units:	µg/L	**Method Blank ID:**	MB-13066
Initial Calibration ID:	1204	**File ID:**	T1986.D

Internal Std	Area Counts	Area Count Limits	Qualifier
1,4-Dichlorobenzene-d4	694308	306228 - 1224912	
Chlorobenzene-d5	825441	370666 - 1482666	
Fluorobenzene	1847105	849584 - 3398336	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 7
BLANKS

Analytical Method:	SW8260B	**AAB #:**	R13111
Lab Name:	Life Science Laboratories, Inc.	**Contract Number:**	
Units:	µg/L	**Method Blank ID:**	MB-13111
Initial Calibration ID:	1212	**File ID:**	M4742.D

Analyte	Method Blank	RL	Q
(m+p)-Xylene	0.100	2.00	U
1,1,1,2-Tetrachloroethane	0.250	0.500	U
1,1,1-Trichloroethane	0.160	1.00	U
1,1,2,2-Tetrachloroethane	0.160	0.500	U
1,1,2-Trichloroethane	0.250	1.00	U
1,1-Dichloroethane	0.160	1.00	U
1,1-Dichloroethene	0.250	1.00	U
1,1-Dichloropropene	0.250	1.00	U
1,2,3-Trichlorobenzene	0.500	1.00	U
1,2,3-Trichloropropane	1.00	2.00	U
1,2,4-Trichlorobenzene	0.500	1.00	U
1,2,4-Trimethylbenzene	0.160	1.00	U
1,2-Dibromo-3-chloropropane	2.50	5.00	U
1,2-Dibromoethane	0.250	1.00	U
1,2-Dichlorobenzene	0.160	1.00	U
1,2-Dichloroethane	0.250	0.500	U
1,2-Dichloropropane	0.160	1.00	U
1,3,5-Trimethylbenzene	0.160	1.00	U
1,3-Dichlorobenzene	0.160	1.00	U
1,3-Dichloropropane	0.160	0.500	U
1,4-Dichlorobenzene	0.160	0.500	U
1-Chlorohexane	0.250	1.00	U
2,2-Dichloropropane	0.500	1.00	U
2-Butanone	2.50	10.0	U
2-Chlorotoluene	0.100	1.00	U
4-Chlorotoluene	0.100	1.00	U
4-Methyl-2-pentanone	1.00	10.0	U
Acetone	2.50	10.0	U
Benzene	0.160	0.500	U
Bromobenzene	0.160	1.00	U
Bromochloromethane	0.160	1.00	U
Bromodichloromethane	0.160	0.500	U
Bromoform	0.500	1.00	U
Bromomethane	0.190	3.00	U
Carbon tetrachloride	0.250	1.00	U

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 7
BLANKS

Analytical Method:	SW8260B	**AAB #:**	R13111
Lab Name:	Life Science Laboratories, Inc.	**Contract Number:**	
Units:	µg/L	**Method Blank ID:**	MB-13111
Initial Calibration ID:	1212	**File ID:**	M4742.D

Analyte	Method Blank	RL	Q
Chlorobenzene	0.160	0.500	U
Chloroethane	0.500	1.00	U
Chloroform	0.100	0.500	U
Chloromethane	0.500	1.00	U
cis-1,2-Dichloroethene	0.160	1.00	U
cis-1,3-Dichloropropene	0.250	0.500	U
Dibromochloromethane	0.160	0.500	U
Dibromomethane	0.160	1.00	U
Dichlorodifluoromethane	0.250	1.00	U
Ethylbenzene	0.100	1.00	U
Hexachlorobutadiene	0.500	1.00	U
Isopropylbenzene	0.160	1.00	U
Methyl tert-butyl ether	0.500	5.00	U
Methylene chloride	0.160	1.00	U
n-Butylbenzene	0.160	1.00	U
n-Propylbenzene	0.100	1.00	U
Naphthalene	0.500	1.00	U
o-Xylene	0.160	1.00	U
p-Isopropyltoluene	0.160	1.00	U
sec-Butylbenzene	0.160	1.00	U
Styrene	0.160	1.00	U
tert-Butylbenzene	0.160	1.00	U
Tetrachloroethene	0.100	1.00	U
Toluene	0.100	1.00	U
trans-1,2-Dichloroethene	0.160	1.00	U
trans-1,3-Dichloropropene	0.250	1.00	U
Trichloroethene	0.100	1.00	U
Trichlorofluoromethane	0.100	1.00	U
Vinyl chloride	0.500	1.00	U
Xylenes (total)	0.260	2.00	U

Surrogate	Recovery	Control Limits	Qualifier
1,2-Dichloroethane-d4	117	72 - 119	
4-Bromofluorobenzene	102	76 - 119	
Toluene-d8	106	81 - 120	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 7
BLANKS

Analytical Method:	SW8260B	**AAB #:**	R13111
Lab Name:	Life Science Laboratories, Inc.	**Contract Number:**	
Units:	µg/L	**Method Blank ID:**	MB-13111
Initial Calibration ID:	1212	**File ID:**	M4742.D

Internal Std	Area Counts	Area Count Limits	Qualifier
1,4-Dichlorobenzene-d4	1630799	992054 - 3968218	
Chlorobenzene-d5	2782371	1470392 - 5881570	
Fluorobenzene	5556240	2867034 - 11468136	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 8
LABORATORY CONTROL SAMPLE

Analytical Method: SW8260B **AAB #:** R13058

Lab Name: Life Science Laboratories, Inc. **Contract #:**

LCS ID: LCS-13058 **Initial Calibration ID:** 1204

Concentration Units (mg/L or mg/kg): µg/L **File ID:** T1979.D

Analyte	Expected	Found	%R	Control Limits	Q
(m+p)-Xylene	20	20.6	103	76 - 128	
1,1,1,2-Tetrachloroethane	10	9.53	95	81 - 129	
1,1,1-Trichloroethane	10	9.81	98	67 - 132	
1,1,2,2-Tetrachloroethane	10	8.26	83	63 - 128	
1,1,2-Trichloroethane	10	9.88	99	75 - 125	
1,1-Dichloroethane	10	9.32	93	69 - 133	
1,1-Dichloroethene	10	10.3	103	68 - 130	
1,1-Dichloropropene	10	9.05	90	73 - 132	
1,2,3-Trichlorobenzene	10	7.91	79	67 - 137	
1,2,3-Trichloropropane	10	8.83	88	73 - 124	
1,2,4-Trichlorobenzene	10	8.62	86	66 - 134	
1,2,4-Trimethylbenzene	10	8.42	84	74 - 132	
1,2-Dibromo-3-chloropropane	10	7.92	79	50 - 132	
1,2-Dibromoethane	10	10.5	105	80 - 121	
1,2-Dichlorobenzene	10	9.52	95	71 - 122	
1,2-Dichloroethane	10	9.89	99	69 - 132	
1,2-Dichloropropane	10	9.05	90	75 - 125	
1,3,5-Trimethylbenzene	10	9.46	95	74 - 131	
1,3-Dichlorobenzene	10	9.47	95	75 - 124	
1,3-Dichloropropane	10	9.44	94	73 - 126	
1,4-Dichlorobenzene	10	9.20	92	74 - 123	
1-Chlorohexane	10	8.87	89	70 - 125	
2,2-Dichloropropane	10	8.96	90	69 - 137	
2-Butanone	20	13.6	68	49 - 136	
2-Chlorotoluene	10	9.06	91	73 - 126	
4-Chlorotoluene	10	9.16	92	74 - 128	
4-Methyl-2-pentanone	20	14.4	72	58 - 134	
Acetone	20	12.5	63	40 - 135	
Benzene	10	9.62	96	81 - 122	
Bromobenzene	10	9.26	93	76 - 124	
Bromochloromethane	10	9.97	100	65 - 129	
Bromodichloromethane	10	9.55	96	76 - 121	
Bromoform	10	9.31	93	69 - 128	
Bromomethane	10	9.32	93	30 - 141	
Carbon tetrachloride	10	9.63	96	66 - 138	
Chlorobenzene	10	9.95	100	81 - 122	
Chloroethane	10	9.66	97	58 - 133	
Chloroform	10	9.91	99	69 - 128	
Chloromethane	10	8.57	86	56 - 131	
cis-1,2-Dichloroethene	10	10.1	101	72 - 126	
cis-1,3-Dichloropropene	10	8.64	86	69 - 131	
Dibromochloromethane	10	9.19	92	66 - 133	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 8
LABORATORY CONTROL SAMPLE

Analytical Method: SW8260B **AAB #:** R13058

Lab Name: Life Science Laboratories, Inc. **Contract #:**

LCS ID: LCS-13058 **Initial Calibration ID:** 1204

Concentration Units (mg/L or mg/kg): µg/L **File ID:** T1979.D

Analyte	Expected	Found	%R	Control Limits	Q
Dibromomethane	10	10.2	102	76 - 125	
Dichlorodifluoromethane	10	9.92	99	30 - 153	
Ethylbenzene	10	9.95	100	73 - 127	
Hexachlorobutadiene	10	9.00	90	67 - 131	
Isopropylbenzene	10	9.02	90	75 - 127	
Methyl tert-butyl ether	10	10.4	104	65 - 123	
Methylene chloride	10	8.88	89	63 - 137	
n-Butylbenzene	10	7.90	79	69 - 137	
n-Propylbenzene	10	9.26	93	72 - 129	
Naphthalene	10	8.52	85	54 - 138	
o-Xylene	10	10.4	104	80 - 121	
p-Isopropyltoluene	10	8.53	85	73 - 130	
sec-Butylbenzene	10	8.77	88	72 - 127	
Styrene	10	8.72	87	65 - 134	
tert-Butylbenzene	10	8.98	90	70 - 129	
Tetrachloroethene	10	9.62	96	66 - 128	
Toluene	10	9.81	98	77 - 122	
trans-1,2-Dichloroethene	10	9.82	98	63 - 137	
trans-1,3-Dichloropropene	10	8.77	88	59 - 135	
Trichloroethene	10	10.4	104	70 - 127	
Trichlorofluoromethane	10	10.0	100	57 - 129	
Vinyl chloride	10	9.27	93	50 - 134	
Xylenes (total)	30	31.1	104	80 - 121	

Surrogate	Recovery	Control Limits	Qualifier
1,2-Dichloroethane-d4	102	72 - 119	
4-Bromofluorobenzene	97	76 - 119	
Toluene-d8	103	81 - 120	

Internal Std	Area Counts	Area Count Limits	Qualifier
1,4-Dichlorobenzene-d4	736770	306228 - 1224912	
Chlorobenzene-d5	808539	370666 - 1482666	
Fluorobenzene	1847014	849584 - 3398336	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 8
LABORATORY CONTROL SAMPLE

Analytical Method: SW8260B **AAB #:** R13066

Lab Name: Life Science Laboratories, Inc. **Contract #:**

LCS ID: LCS-13066 **Initial Calibration ID:** 1204

Concentration Units (mg/L or mg/kg): µg/L **File ID:** T1983.D

Analyte	Expected	Found	%R	Control Limits	Q
(m+p)-Xylene	20	19.2	96	76 - 128	
1,1,1,2-Tetrachloroethane	10	9.35	94	81 - 129	
1,1,1-Trichloroethane	10	9.34	93	67 - 132	
1,1,2,2-Tetrachloroethane	10	8.21	82	63 - 128	
1,1,2-Trichloroethane	10	9.57	96	75 - 125	
1,1-Dichloroethane	10	8.69	87	69 - 133	
1,1-Dichloroethene	10	9.48	95	68 - 130	
1,1-Dichloropropene	10	8.47	85	73 - 132	
1,2,3-Trichlorobenzene	10	7.76	78	67 - 137	
1,2,3-Trichloropropane	10	8.22	82	73 - 124	
1,2,4-Trichlorobenzene	10	8.34	83	66 - 134	
1,2,4-Trimethylbenzene	10	7.81	78	74 - 132	
1,2-Dibromo-3-chloropropane	10	7.92	79	50 - 132	
1,2-Dibromoethane	10	9.71	97	80 - 121	
1,2-Dichlorobenzene	10	8.87	89	71 - 122	
1,2-Dichloroethane	10	9.66	97	69 - 132	
1,2-Dichloropropane	10	8.43	84	75 - 125	
1,3,5-Trimethylbenzene	10	8.76	88	74 - 131	
1,3-Dichlorobenzene	10	8.80	88	75 - 124	
1,3-Dichloropropane	10	8.81	88	73 - 126	
1,4-Dichlorobenzene	10	8.61	86	74 - 123	
1-Chlorohexane	10	8.34	83	70 - 125	
2,2-Dichloropropane	10	9.90	99	69 - 137	
2-Butanone	20	16.0	80	49 - 136	
2-Chlorotoluene	10	8.29	83	73 - 126	
4-Chlorotoluene	10	8.49	85	74 - 128	
4-Methyl-2-pentanone	20	17.7	88	58 - 134	
Acetone	20	15.4	77	40 - 135	
Benzene	10	8.93	89	81 - 122	
Bromobenzene	10	8.69	87	76 - 124	
Bromochloromethane	10	9.56	96	65 - 129	
Bromodichloromethane	10	9.27	93	76 - 121	
Bromoform	10	9.55	96	69 - 128	
Bromomethane	10	9.61	96	30 - 141	
Carbon tetrachloride	10	9.37	94	66 - 138	
Chlorobenzene	10	9.17	92	81 - 122	
Chloroethane	10	9.15	92	58 - 133	
Chloroform	10	9.34	93	69 - 128	
Chloromethane	10	8.28	83	56 - 131	
cis-1,2-Dichloroethene	10	9.47	95	72 - 126	
cis-1,3-Dichloropropene	10	8.43	84	69 - 131	
Dibromochloromethane	10	9.18	92	66 - 133	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 8
LABORATORY CONTROL SAMPLE

Analytical Method: SW8260B **AAB #:** R13066

Lab Name: Life Science Laboratories, Inc. **Contract #:**

LCS ID: LCS-13066 **Initial Calibration ID:** 1204

Concentration Units (mg/L or mg/kg): ug/L **File ID:** T1983.D

Analyte	Expected	Found	%R	Control Limits	Q
Dibromomethane	10	9.72	97	76 - 125	
Dichlorodifluoromethane	10	10.0	100	30 - 153	
Ethylbenzene	10	9.16	92	73 - 127	
Hexachlorobutadiene	10	8.77	88	67 - 131	
Isopropylbenzene	10	8.18	82	75 - 127	
Methyl tert-butyl ether	10	10.1	101	65 - 123	
Methylene chloride	10	8.36	84	63 - 137	
n-Butylbenzene	10	7.52	75	69 - 137	
n-Propylbenzene	10	8.51	85	72 - 129	
Naphthalene	10	8.33	83	54 - 138	
o-Xylene	10	9.77	98	80 - 121	
p-Isopropyltoluene	10	7.97	80	73 - 130	
sec-Butylbenzene	10	8.00	80	72 - 127	
Styrene	10	8.07	81	65 - 134	
tert-Butylbenzene	10	8.19	82	70 - 129	
Tetrachloroethene	10	8.96	90	66 - 128	
Toluene	10	9.03	90	77 - 122	
trans-1,2-Dichloroethene	10	9.29	93	63 - 137	
trans-1,3-Dichloropropene	10	8.75	88	59 - 135	
Trichloroethene	10	9.26	93	70 - 127	
Trichlorofluoromethane	10	10.1	101	57 - 129	
Vinyl chloride	10	9.12	91	50 - 134	
Xylenes (total)	30	29.0	97	80 - 121	

Surrogate	Recovery	Control Limits	Qualifier
1,2-Dichloroethane-d4	104	72 - 119	
4-Bromofluorobenzene	97	76 - 119	
Toluene-d8	101	81 - 120	

Internal Std	Area Counts	Area Count Limits	Qualifier
1,4-Dichlorobenzene-d4	765993	306228 - 1224912	
Chlorobenzene-d5	829926	370666 - 1482666	
Fluorobenzene	1869607	849584 - 3398336	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 8
LABORATORY CONTROL SAMPLE

Analytical Method: SW8260B **AAB #:** R13066

Lab Name: Life Science Laboratories, Inc. **Contract #:**

LCS ID: LCSD-13066 **Initial Calibration ID:** 1204

Concentration Units (mg/L or mg/kg): µg/L **File ID:** T1984.D

Analyte	Expected	Found	%R	Control Limits	Q
(m+p)-Xylene	20	20.9	104	76 - 128	
1,1,1,2-Tetrachloroethane	10	10.0	101	81 - 129	
1,1,1-Trichloroethane	10	10.2	102	67 - 132	
1,1,2,2-Tetrachloroethane	10	9.14	91	63 - 128	
1,1,2-Trichloroethane	10	10.1	101	75 - 125	
1,1-Dichloroethane	10	9.38	94	69 - 133	
1,1-Dichloroethene	10	10.2	102	68 - 130	
1,1-Dichloropropene	10	9.29	93	73 - 132	
1,2,3-Trichlorobenzene	10	8.59	86	67 - 137	
1,2,3-Trichloropropane	10	9.27	93	73 - 124	
1,2,4-Trichlorobenzene	10	9.19	92	66 - 134	
1,2,4-Trimethylbenzene	10	8.62	86	74 - 132	
1,2-Dibromo-3-chloropropane	10	9.05	90	50 - 132	
1,2-Dibromoethane	10	10.6	106	80 - 121	
1,2-Dichlorobenzene	10	9.85	98	71 - 122	
1,2-Dichloroethane	10	10.6	106	69 - 132	
1,2-Dichloropropane	10	9.18	92	75 - 125	
1,3,5-Trimethylbenzene	10	9.72	97	74 - 131	
1,3-Dichlorobenzene	10	9.81	98	75 - 124	
1,3-Dichloropropane	10	9.63	96	73 - 126	
1,4-Dichlorobenzene	10	9.56	96	74 - 123	
1-Chlorohexane	10	8.98	90	70 - 125	
2,2-Dichloropropane	10	10.6	106	69 - 137	
2-Butanone	20	16.2	81	49 - 136	
2-Chlorotoluene	10	9.18	92	73 - 126	
4-Chlorotoluene	10	9.46	95	74 - 128	
4-Methyl-2-pentanone	20	17.4	87	58 - 134	
Acetone	20	15.0	75	40 - 135	
Benzene	10	9.56	96	81 - 122	
Bromobenzene	10	9.58	96	76 - 124	
Bromochloromethane	10	10.3	103	65 - 129	
Bromodichloromethane	10	10.1	101	76 - 121	
Bromoform	10	10.2	103	69 - 128	
Bromomethane	10	10.1	101	30 - 141	
Carbon tetrachloride	10	10.2	102	66 - 138	
Chlorobenzene	10	10.1	101	81 - 122	
Chloroethane	10	9.44	94	58 - 133	
Chloroform	10	10.2	102	69 - 128	
Chloromethane	10	8.38	84	56 - 131	
cis-1,2-Dichloroethene	10	10.1	101	72 - 126	
cis-1,3-Dichloropropene	10	9.08	91	69 - 131	
Dibromochloromethane	10	10.1	101	66 - 133	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 8
LABORATORY CONTROL SAMPLE

Analytical Method: SW8260B **AAB #:** R13066

Lab Name: Life Science Laboratories, Inc. **Contract #:**

LCS ID: LCSD-13066 **Initial Calibration ID:** 1204

Concentration Units (mg/L or mg/kg): µg/L **File ID:** T1984.D

Analyte	Expected	Found	%R	Control Limits	Q
Dibromomethane	10	10.5	105	76 - 125	
Dichlorodifluoromethane	10	10.0	100	30 - 153	
Ethylbenzene	10	9.97	100	73 - 127	
Hexachlorobutadiene	10	9.43	94	67 - 131	
Isopropylbenzene	10	9.05	90	75 - 127	
Methyl tert-butyl ether	10	10.9	109	65 - 123	
Methylene chloride	10	9.01	90	63 - 137	
n-Butylbenzene	10	8.34	83	69 - 137	
n-Propylbenzene	10	9.42	94	72 - 129	
Naphthalene	10	9.37	94	54 - 138	
o-Xylene	10	10.6	106	80 - 121	
p-Isopropyltoluene	10	8.78	88	73 - 130	
sec-Butylbenzene	10	8.88	89	72 - 127	
Styrene	10	8.75	88	65 - 134	
tert-Butylbenzene	10	9.08	91	70 - 129	
Tetrachloroethene	10	9.52	95	66 - 128	
Toluene	10	9.90	99	77 - 122	
trans-1,2-Dichloroethene	10	9.85	98	63 - 137	
trans-1,3-Dichloropropene	10	9.50	95	59 - 135	
Trichloroethene	10	10.0	100	70 - 127	
Trichlorofluoromethane	10	10.4	104	57 - 129	
Vinyl chloride	10	9.28	93	50 - 134	
Xylenes (total)	30	31.5	105	80 - 121	

Surrogate	Recovery	Control Limits	Qualifier
1,2-Dichloroethane-d4	104	72 - 119	
4-Bromofluorobenzene	98	76 - 119	
Toluene-d8	101	81 - 120	

Internal Std	Area Counts	Area Count Limits	Qualifier
1,4-Dichlorobenzene-d4	723124	306228 - 1224912	
Chlorobenzene-d5	788575	370666 - 1482666	
Fluorobenzene	1780485	849584 - 3398336	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 8
LABORATORY CONTROL SAMPLE

Analytical Method: SW8260B **AAB #:** R13111

Lab Name: Life Science Laboratories, Inc. **Contract #:**

LCS ID: LCS-13111 **Initial Calibration ID:** 1212

Concentration Units (mg/L or mg/kg): µg/L **File ID:** M4725.D

Analyte	Expected	Found	%R	Control Limits	Q
(m+p)-Xylene	20	21.4	107	76 - 128	
1,1,1,2-Tetrachloroethane	10	11.0	110	81 - 129	
1,1,1-Trichloroethane	10	10.4	104	67 - 132	
1,1,2,2-Tetrachloroethane	10	11.1	111	63 - 128	
1,1,2-Trichloroethane	10	11.6	116	75 - 125	
1,1-Dichloroethane	10	10.9	109	69 - 133	
1,1-Dichloroethene	10	11.9	119	68 - 130	
1,1-Dichloropropene	10	10.7	107	73 - 132	
1,2,3-Trichlorobenzene	10	10.2	102	67 - 137	
1,2,3-Trichloropropane	10	9.66	97	73 - 124	
1,2,4-Trichlorobenzene	10	10.3	103	66 - 134	
1,2,4-Trimethylbenzene	10	9.80	98	74 - 132	
1,2-Dibromo-3-chloropropane	10	10.9	109	50 - 132	
1,2-Dibromoethane	10	11.6	116	80 - 121	
1,2-Dichlorobenzene	10	10.8	108	71 - 122	
1,2-Dichloroethane	10	11.1	111	69 - 132	
1,2-Dichloropropane	10	11.2	112	75 - 125	
1,3,5-Trimethylbenzene	10	10.2	102	74 - 131	
1,3-Dichlorobenzene	10	11.2	112	75 - 124	
1,3-Dichloropropane	10	11.5	115	73 - 126	
1,4-Dichlorobenzene	10	10.8	108	74 - 123	
1-Chlorohexane	10	10.6	106	70 - 125	
2,2-Dichloropropane	10	10.3	103	69 - 137	
2-Butanone	20	17.9	89	49 - 136	
2-Chlorotoluene	10	11.1	111	73 - 126	
4-Chlorotoluene	10	11.0	110	74 - 128	
4-Methyl-2-pentanone	20	22.4	112	58 - 134	
Acetone	20	17.5	87	40 - 135	
Benzene	10	11.1	111	81 - 122	
Bromobenzene	10	10.7	107	76 - 124	
Bromochloromethane	10	11.0	110	65 - 129	
Bromodichloromethane	10	11.7	117	76 - 121	
Bromoform	10	10.4	104	69 - 128	
Bromomethane	10	9.45	94	30 - 141	
Carbon tetrachloride	10	10.2	102	66 - 138	
Chlorobenzene	10	11.3	113	81 - 122	
Chloroethane	10	11.1	111	58 - 133	
Chloroform	10	10.7	107	69 - 128	
Chloromethane	10	10.9	109	56 - 131	
cis-1,2-Dichloroethene	10	11.9	119	72 - 126	
cis-1,3-Dichloropropene	10	11.5	115	69 - 131	
Dibromochloromethane	10	11.7	117	66 - 133	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 8
LABORATORY CONTROL SAMPLE

Analytical Method: SW8260B **AAB #:** R13111

Lab Name: Life Science Laboratories, Inc. **Contract #:**

LCS ID: LCS-13111 **Initial Calibration ID:** 1212

Concentration Units (mg/L or mg/kg): µg/L **File ID:** M4725.D

Analyte	Expected	Found	%R	Control Limits	Q
Dibromomethane	10	11.3	113	76 - 125	
Dichlorodifluoromethane	10	10.8	108	30 - 153	
Ethylbenzene	10	11.6	116	73 - 127	
Hexachlorobutadiene	10	12.0	120	67 - 131	
Isopropylbenzene	10	11.0	110	75 - 127	
Methyl tert-butyl ether	10	10.8	108	65 - 123	
Methylene chloride	10	10.4	104	63 - 137	
n-Butylbenzene	10	9.80	98	69 - 137	
n-Propylbenzene	10	11.3	113	72 - 129	
Naphthalene	10	12.9	129	54 - 138	
o-Xylene	10	10.7	107	80 - 121	
p-Isopropyltoluene	10	9.86	99	73 - 130	
sec-Butylbenzene	10	10.3	103	72 - 127	
Styrene	10	9.86	99	65 - 134	
tert-Butylbenzene	10	10.4	104	70 - 129	
Tetrachloroethene	10	11.5	115	66 - 128	
Toluene	10	11.4	114	77 - 122	
trans-1,2-Dichloroethene	10	10.6	106	63 - 137	
trans-1,3-Dichloropropene	10	10.4	104	59 - 135	
Trichloroethene	10	11.3	113	70 - 127	
Trichlorofluoromethane	10	10.8	108	57 - 129	
Vinyl chloride	10	10.6	106	50 - 134	
Xylenes (total)	30	32.1	107	80 - 121	

Surrogate	Recovery	Control Limits	Qualifier
1,2-Dichloroethane-d4	107	72 - 119	
4-Bromofluorobenzene	111	76 - 119	
Toluene-d8	110	81 - 120	

Internal Std	Area Counts	Area Count Limits	Qualifier
1,4-Dichlorobenzene-d4	1849984	992054 - 3968218	
Chlorobenzene-d5	2674535	1470392 - 5881570	
Fluorobenzene	5349304	2867034 - 11468136	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 9
MATRIX SPIKE/MATRIX SPIKE DUPLICATE SAMPLE RECOVERY

Analytical Method: SW8260B **AAB #:** R13111

Lab Name: Life Science Laboratories, Inc. **Contract #:**

Concentration Units (mg/L or mg/kg): µg/L **% Solids:** 0

Parent Field Sample ID: TF3M12313SA **MS ID:** 0803106-005AMS **MSD ID:** 0803106-005AMSD

Calibration ID: 1212

Analyte	Parent Sample Result	Spike Added	Spiked Sample Result	%R	Duplicate Spiked Sample Result	%R	%RPD	Control Limits %R	Control Limits %RPD	Q
(m+p)-Xylene		40.0	41.6	104	43.2	108	4	76 - 128	20	
1,1,1,2-Tetrachloroethane		20.0	21.3	107	22.2	111	4	81 - 129	20	
1,1,1-Trichloroethane		20.0	19.3	97	19.9	100	3	67 - 132	20	
1,1,2,2-Tetrachloroethane		20.0	21.4	107	22.9	115	7	63 - 128	20	
1,1,2-Trichloroethane		20.0	23.8	119	24.2	121	2	75 - 125	20	
1,1-Dichloroethane		20.0	22.2	111	23.0	115	4	69 - 133	20	
1,1-Dichloroethene		20.0	23.5	118	24.9	124	6	68 - 130	20	
1,1-Dichloropropene		20.0	19.6	98	20.2	101	3	73 - 132	20	
1,2,3-Trichlorobenzene		20.0	20.1	101	20.1	101	0	67 - 137	20	
1,2,3-Trichloropropane		20.0	18.8	94	17.5	87	7	73 - 124	20	
1,2,4-Trichlorobenzene		20.0	20.3	102	21.3	106	5	66 - 134	20	
1,2,4-Trimethylbenzene	11.4	20.0	31.2	99	32.6	106	4	74 - 132	20	
1,2-Dibromo-3-chloropropane		20.0	21.4	107	22.6	113	5	50 - 132	20	
1,2-Dibromoethane		20.0	21.9	110	22.5	112	2	80 - 121	20	
1,2-Dichlorobenzene		20.0	21.1	106	22.2	111	5	71 - 122	20	
1,2-Dichloroethane		20.0	21.5	108	22.4	112	4	69 - 132	20	
1,2-Dichloropropane		20.0	21.6	108	22.5	113	4	75 - 125	20	
1,3,5-Trimethylbenzene	2.94	20.0	26.2	116	27.2	121	4	74 - 131	20	
1,3-Dichlorobenzene		20.0	21.8	109	23.0	115	5	75 - 124	20	
1,3-Dichloropropane		20.0	21.4	107	22.0	110	3	73 - 126	20	
1,4-Dichlorobenzene		20.0	21.2	106	22.2	111	5	74 - 123	20	
1-Chlorohexane		20.0	20.2	101	20.2	101	0	70 - 125	20	
2,2-Dichloropropane		20.0	20.0	100	20.5	103	2	69 - 137	20	
2-Butanone		40.0	86.9	217	96.0	240	10	49 - 136	20	*
2-Chlorotoluene		20.0	20.6	103	23.3	116	12	73 - 126	20	
4-Chlorotoluene		20.0	23.2	116	22.9	115	1	74 - 128	20	
4-Methyl-2-pentanone		40.0	61.7	154	62.5	156	1	58 - 134	20	*
Acetone		40.0	90.1	225	88.7	222	2	40 - 135	20	*
Benzene		20.0	22.1	111	23.0	115	4	81 - 122	20	
Bromobenzene		20.0	20.3	102	21.4	107	5	76 - 124	20	
Bromochloromethane		20.0	20.5	103	21.2	106	3	65 - 129	20	
Bromodichloromethane		20.0	21.3	106	22.0	110	4	76 - 121	20	
Bromoform		20.0	18.8	94	19.5	98	4	69 - 128	20	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 9
MATRIX SPIKE/MATRIX SPIKE DUPLICATE SAMPLE RECOVERY

Analytical Method: SW8260B **AAB #:** R13111

Lab Name: Life Science Laboratories, Inc. **Contract #:**

Concentration Units (mg/L or mg/kg): µg/L **% Solids:** 0

Parent Field Sample ID: TF3M12313SA **MS ID:** 0803106-005AMS **MSD ID:** 0803106-005AMSD

Calibration ID: 1212

Analyte	Parent Sample Result	Spike Added	Spiked Sample Result	%R	Duplicate Spiked Sample Result	%R	%RPD	Control Limits %R	Control Limits %RPD	Q
Bromomethane		20.0	16.9	84	16.4	82	3	30 - 141	20	
Carbon tetrachloride		20.0	19.5	98	20.1	101	3	66 - 138	20	
Chlorobenzene		20.0	21.4	107	22.0	110	3	81 - 122	20	
Chloroethane		20.0	17.8	89	17.3	86	3	58 - 133	20	
Chloroform		20.0	21.2	106	22.1	111	4	69 - 128	20	
Chloromethane		20.0	20.6	103	19.4	97	6	56 - 131	20	
cis-1,2-Dichloroethene		20.0	23.2	116	23.9	119	3	72 - 126	20	
cis-1,3-Dichloropropene		20.0	22.3	111	22.2	111	0	69 - 131	20	
Dibromochloromethane		20.0	22.1	110	22.2	111	1	66 - 133	20	
Dibromomethane		20.0	20.1	100	20.6	103	3	76 - 125	20	
Dichlorodifluoromethane		20.0	20.4	102	19.4	97	5	30 - 153	20	
Ethylbenzene		20.0	22.5	113	23.5	118	4	73 - 127	20	
Hexachlorobutadiene		20.0	22.2	111	22.8	114	3	67 - 131	20	
Isopropylbenzene	63.9	20.0	84.7	104	85.0	106	0	75 - 127	20	
Methyl tert-butyl ether		20.0	22.6	113	23.8	119	5	65 - 123	20	
Methylene chloride		20.0	21.7	108	23.0	115	6	63 - 137	20	
n-Butylbenzene	2.20	20.0	21.0	94	22.5	102	7	69 - 137	20	
n-Propylbenzene	7.22	20.0	30.5	117	31.8	123	4	72 - 129	20	
Naphthalene		20.0	25.0	125	25.5	128	2	54 - 138	20	
o-Xylene		20.0	20.9	105	21.7	108	4	80 - 121	20	
p-Isopropyltoluene	1.92	20.0	21.4	98	22.1	101	3	73 - 130	20	
sec-Butylbenzene	1.84	20.0	22.2	102	23.0	106	4	72 - 127	20	
Styrene		20.0	19.3	96	19.9	99	3	65 - 134	20	
tert-Butylbenzene		20.0	22.7	113	23.8	119	5	70 - 129	20	
Tetrachloroethene		20.0	21.8	109	21.9	109	0	66 - 128	20	
Toluene		20.0	22.7	114	22.6	113	0	77 - 122	20	
trans-1,2-Dichloroethene		20.0	20.7	104	20.8	104	0	63 - 137	20	
trans-1,3-Dichloropropene		20.0	20.3	102	20.2	101	1	59 - 135	20	
Trichloroethene		20.0	21.6	108	22.2	111	3	70 - 127	20	
Trichlorofluoromethane		20.0	20.7	104	20.1	101	3	57 - 129	20	
Vinyl chloride		20.0	20.2	101	19.9	100	1	50 - 134	20	
Xylenes (total)		60.0	62.5	104	64.9	108	4	80 - 121	20	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 9
MATRIX SPIKE/MATRIX SPIKE DUPLICATE SAMPLE RECOVERY

Analytical Method: SW8260B **AAB #:** R13066

Lab Name: Life Science Laboratories, Inc. **Contract #:**

Concentration Units (mg/L or mg/kg): µg/L **% Solids:** 0

Parent Field Sample ID: LCSD-13066 **MS ID:** LCS-13066 **MSD ID:** LCSD-13066

Calibration ID: 1204

Analyte	Parent Sample Result	Spike Added	Spiked Sample Result	%R	Duplicate Spiked Sample Result	%R	%RPD	Control Limits %R	Control Limits %RPD	Q
(m+p)-Xylene		20.0	19.2	96	20.9	104	8	76 - 128	20	
1,1,1,2-Tetrachloroethane		10.0	9.35	94	10.0	101	7	81 - 129	20	
1,1,1-Trichloroethane		10.0	9.34	93	10.2	102	9	67 - 132	20	
1,1,2,2-Tetrachloroethane		10.0	8.21	82	9.14	91	11	63 - 128	20	
1,1,2-Trichloroethane		10.0	9.57	96	10.1	101	5	75 - 125	20	
1,1-Dichloroethane		10.0	8.69	87	9.38	94	8	69 - 133	20	
1,1-Dichloroethene		10.0	9.48	95	10.2	102	8	68 - 130	20	
1,1-Dichloropropene		10.0	8.47	85	9.29	93	9	73 - 132	20	
1,2,3-Trichlorobenzene		10.0	7.76	78	8.59	86	10	67 - 137	20	
1,2,3-Trichloropropane		10.0	8.22	82	9.27	93	12	73 - 124	20	
1,2,4-Trichlorobenzene		10.0	8.34	83	9.19	92	10	66 - 134	20	
1,2,4-Trimethylbenzene		10.0	7.81	78	8.62	86	10	74 - 132	20	
1,2-Dibromo-3-chloropropane		10.0	7.92	79	9.05	90	13	50 - 132	20	
1,2-Dibromoethane		10.0	9.71	97	10.6	106	8	80 - 121	20	
1,2-Dichlorobenzene		10.0	8.87	89	9.85	98	10	71 - 122	20	
1,2-Dichloroethane		10.0	9.66	97	10.6	106	9	69 - 132	20	
1,2-Dichloropropane		10.0	8.43	84	9.18	92	9	75 - 125	20	
1,3,5-Trimethylbenzene		10.0	8.76	88	9.72	97	10	74 - 131	20	
1,3-Dichlorobenzene		10.0	8.80	88	9.81	98	11	75 - 124	20	
1,3-Dichloropropane		10.0	8.81	88	9.63	96	9	73 - 126	20	
1,4-Dichlorobenzene		10.0	8.61	86	9.56	96	10	74 - 123	20	
1-Chlorohexane		10.0	8.34	83	8.98	90	7	70 - 125	20	
2,2-Dichloropropane		10.0	9.90	99	10.6	106	7	69 - 137	20	
2-Butanone		20.0	16.0	80	16.2	81	1	49 - 136	20	
2-Chlorotoluene		10.0	8.29	83	9.18	92	10	73 - 126	20	
4-Chlorotoluene		10.0	8.49	85	9.46	95	11	74 - 128	20	
4-Methyl-2-pentanone		20.0	17.7	88	17.4	87	2	58 - 134	20	
Acetone		20.0	15.4	77	15.0	75	3	40 - 135	20	
Benzene		10.0	8.93	89	9.56	96	7	81 - 122	20	
Bromobenzene		10.0	8.69	87	9.58	96	10	76 - 124	20	
Bromochloromethane		10.0	9.56	96	10.3	103	8	65 - 129	20	
Bromodichloromethane		10.0	9.27	93	10.1	101	9	76 - 121	20	
Bromoform		10.0	9.55	96	10.2	103	7	69 - 128	20	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 9
MATRIX SPIKE/MATRIX SPIKE DUPLICATE SAMPLE RECOVERY

Analytical Method: SW8260B **AAB #:** R13066

Lab Name: Life Science Laboratories, Inc. **Contract #:**

Concentration Units (mg/L or mg/kg): µg/L **% Solids:** 0

Parent Field Sample ID: LCSD-13066 **MS ID:** LCS-13066 **MSD ID:** LCSD-13066

Calibration ID: 1204

Analyte	Parent Sample Result	Spike Added	Spiked Sample Result	%R	Duplicate Spiked Sample Result	%R	%RPD	Control Limits %R	Control Limits %RPD	Q
Bromomethane		10.0	9.61	96	10.1	101	5	30 - 141	20	
Carbon tetrachloride		10.0	9.37	94	10.2	102	8	66 - 138	20	
Chlorobenzene		10.0	9.17	92	10.1	101	9	81 - 122	20	
Chloroethane		10.0	9.15	92	9.44	94	3	58 - 133	20	
Chloroform		10.0	9.34	93	10.2	102	8	69 - 128	20	
Chloromethane		10.0	8.28	83	8.38	84	1	56 - 131	20	
cis-1,2-Dichloroethene		10.0	9.47	95	10.1	101	6	72 - 126	20	
cis-1,3-Dichloropropene		10.0	8.43	84	9.08	91	7	69 - 131	20	
Dibromochloromethane		10.0	9.18	92	10.1	101	9	66 - 133	20	
Dibromomethane		10.0	9.72	97	10.5	105	8	76 - 125	20	
Dichlorodifluoromethane		10.0	10.0	100	10.0	100	0	30 - 153	20	
Ethylbenzene		10.0	9.16	92	9.97	100	8	73 - 127	20	
Hexachlorobutadiene		10.0	8.77	88	9.43	94	7	67 - 131	20	
Isopropylbenzene		10.0	8.18	82	9.05	90	10	75 - 127	20	
Methyl tert-butyl ether		10.0	10.1	101	10.9	109	7	65 - 123	20	
Methylene chloride		10.0	8.36	84	9.01	90	7	63 - 137	20	
n-Butylbenzene		10.0	7.52	75	8.34	83	10	69 - 137	20	
n-Propylbenzene		10.0	8.51	85	9.42	94	10	72 - 129	20	
Naphthalene		10.0	8.33	83	9.37	94	12	54 - 138	20	
o-Xylene		10.0	9.77	98	10.6	106	9	80 - 121	20	
p-Isopropyltoluene		10.0	7.97	80	8.78	88	10	73 - 130	20	
sec-Butylbenzene		10.0	8.00	80	8.88	89	10	72 - 127	20	
Styrene		10.0	8.07	81	8.75	88	8	65 - 134	20	
tert-Butylbenzene		10.0	8.19	82	9.08	91	10	70 - 129	20	
Tetrachloroethene		10.0	8.96	90	9.52	95	6	66 - 128	20	
Toluene		10.0	9.03	90	9.90	99	9	77 - 122	20	
trans-1,2-Dichloroethene		10.0	9.29	93	9.85	98	6	63 - 137	20	
trans-1,3-Dichloropropene		10.0	8.75	88	9.50	95	8	59 - 135	20	
Trichloroethene		10.0	9.26	93	10.0	100	8	70 - 127	20	
Trichlorofluoromethane		10.0	10.1	101	10.4	104	2	57 - 129	20	
Vinyl chloride		10.0	9.12	91	9.28	93	2	50 - 134	20	
Xylenes (total)		30.0	29.0	97	31.5	105	8	80 - 121	20	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 10
HOLDING TIMES

Analytical Method: SW8260B **AAB #:** R13058

Lab Name: Life Science Laboratories, Inc. **Contract #:**

Field Sample ID	Lab Sample ID	Date Collected	Date Received	Date Extracted	Max. Holding Time E	Time Held Ext.	Date Analyzed	Max. Holding Time A	Time Held Anal.	Q
TF3CE312SA	0803106-001A	20-Mar-08	21-Mar-08	24-Mar-08			24-Mar-08	14	4.2	
TF3M2113SA	0803106-002A	20-Mar-08	21-Mar-08	24-Mar-08			24-Mar-08	14	4.1	
TF3M11613SA	0803106-003A	20-Mar-08	21-Mar-08	24-Mar-08			24-Mar-08	14	4.1	
TF3M11710SA	0803106-004A	20-Mar-08	21-Mar-08	24-Mar-08			24-Mar-08	14	4.1	
TF3M12313SC	0803106-006A	20-Mar-08	21-Mar-08	24-Mar-08			24-Mar-08	14	4.2	
TF3M12613SA	0803106-007A	20-Mar-08	21-Mar-08	24-Mar-08			24-Mar-08	14	4.3	
TF3M12813SA	0803106-009A	20-Mar-08	21-Mar-08	24-Mar-08			24-Mar-08	14	4.3	
TF3M13315SA	0803106-010A	20-Mar-08	21-Mar-08	24-Mar-08			24-Mar-08	14	4.4	
TF3M13315SC	0803106-011A	20-Mar-08	21-Mar-08	24-Mar-08			24-Mar-08	14	4.4	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 10
HOLDING TIMES

Analytical Method: SW8260B **AAB #:** R13066

Lab Name: Life Science Laboratories, Inc. **Contract #:**

Field Sample ID	Lab Sample ID	Date Collected	Date Received	Date Extracted	Max. Holding Time E	Time Held Ext.	Date Analyzed	Max. Holding Time A	Time Held Anal.	Q
TF3M12712SA	0803106-008A	20-Mar-08	21-Mar-08	25-Mar-08			25-Mar-08	14	5.2	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 10
HOLDING TIMES

Analytical Method: SW8260B **AAB #:** R13111

Lab Name: Life Science Laboratories, Inc. **Contract #:**

Field Sample ID	Lab Sample ID	Date Collected	Date Received	Date Extracted	Max. Holding Time E	Time Held Ext.	Date Analyzed	Max. Holding Time A	Time Held Anal.	Q
TF3M12313SA	0803106-005A	20-Mar-08	21-Mar-08	28-Mar-08			28-Mar-08	14	8.1	
TF3M12313SA	0803106-005AMS	20-Mar-08	21-Mar-08	28-Mar-08			28-Mar-08	14	8	
TF3M12313SA	0803106-005AMSD	20-Mar-08	21-Mar-08	28-Mar-08			28-Mar-08	14	8.1	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 11
INSTRUMENT ANALYSIS SEQUENCE LOG

Analytical Method: SW8260B **AAB#:**

Lab Name: Life Science Laboratories, Inc. **Contract #:**

Instrument ID #: MS01_11 **Calibration ID:** 1204

Field Sample ID/Std ID/ Blank ID/QC Sample ID	Lab Sample ID	Date Analysis Started	Time Analysis Started	Date Analysis Completed	Time Analysis Completed
TB031808A1	TB031808A1	18-Mar-08	10:30	18-Mar-08	11:33
ICAL 0.5 PPB	ICAL 0.5 PPB	18-Mar-08	11:33	18-Mar-08	12:10
ICAL 1.0 PPB	ICAL 1.0 PPB	18-Mar-08	12:10	18-Mar-08	12:47
ICAL 2.0 PPB	ICAL 2.0 PPB	18-Mar-08	12:47	18-Mar-08	13:24
ICAL 10 PPB	ICAL 10 PPB	18-Mar-08	13:24	18-Mar-08	14:01
ICAL 20 PPB	ICAL 20 PPB	18-Mar-08	14:01	18-Mar-08	14:56
ICAL30 PPB	ICAL30 PPB	18-Mar-08	14:56	18-Mar-08	15:33
ICAL40 PPB	ICAL40 PPB	18-Mar-08	15:33	19-Mar-08	15:08
ICV-13065	ICV-13065	19-Mar-08	15:08	19-Mar-08	15:08
TB032408A1	TB032408A1	24-Mar-08	10:52	24-Mar-08	11:18
CCV-13058	CCV-13058	24-Mar-08	11:18	24-Mar-08	13:05
MB-13058	MB-13058	24-Mar-08	13:05	24-Mar-08	14:16
TF3CE312SA	0803106-001A	24-Mar-08	14:16	24-Mar-08	14:51
TF3M2113SA	0803106-002A	24-Mar-08	14:51	24-Mar-08	15:27
TF3M11613SA	0803106-003A	24-Mar-08	15:27	24-Mar-08	16:02
TF3M11710SA	0803106-004A	24-Mar-08	16:02	24-Mar-08	16:38
TF3M12313SC	0803106-006A	24-Mar-08	16:38	24-Mar-08	17:13
TF3M12613SA	0803106-007A	24-Mar-08	17:13	24-Mar-08	18:24
TF3M12813SA	0803106-009A	24-Mar-08	18:24	24-Mar-08	19:00
TF3M13315SA	0803106-010A	24-Mar-08	19:00	24-Mar-08	19:35
TF3M13315SC	0803106-011A	24-Mar-08	19:35	24-Mar-08	21:57
LCS-13058	LCS-13058	24-Mar-08	21:57	24-Mar-08	21:57
TB032508A1	TB032508A1	25-Mar-08	9:51	25-Mar-08	10:54
CCV-13066	CCV-13066	25-Mar-08	10:54	25-Mar-08	11:37
LCS-13066	LCS-13066	25-Mar-08	11:37	25-Mar-08	12:13
LCSD-13066	LCSD-13066	25-Mar-08	12:13	25-Mar-08	13:24
MB-13066	MB-13066	25-Mar-08	13:24	25-Mar-08	16:23
TF3M12712SA	0803106-008A	25-Mar-08	16:23	25-Mar-08	16:23

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 11
INSTRUMENT ANALYSIS SEQUENCE LOG

Analytical Method: SW8260B **AAB#:**

Lab Name: Life Science Laboratories, Inc. **Contract #:**

Instrument ID #: MS02_12 **Calibration ID:** 1212

Field Sample ID/Std ID/ Blank ID/QC Sample ID	Lab Sample ID	Date Analysis Started	Time Analysis Started	Date Analysis Completed	Time Analysis Completed
TB032408A2	TB032408A2	24-Mar-08	13:10	24-Mar-08	14:24
ICAL 0.5 PPB	ICAL 0.5 PPB	24-Mar-08	14:24	24-Mar-08	15:03
ICAL 1.0 PPB	ICAL 1.0 PPB	24-Mar-08	15:03	24-Mar-08	15:42
ICAL 2.0 PPB	ICAL 2.0 PPB	24-Mar-08	15:42	24-Mar-08	16:45
ICAL 10 PPB	ICAL 10 PPB	24-Mar-08	16:45	24-Mar-08	17:24
ICAL 20 PPB	ICAL 20 PPB	24-Mar-08	17:24	24-Mar-08	18:02
ICAL 30 PPB	ICAL 30 PPB	24-Mar-08	18:02	24-Mar-08	18:41
ICAL 40 PPB	ICAL 40 PPB	24-Mar-08	18:41	24-Mar-08	20:00
ICV-13052	ICV-13052	24-Mar-08	20:00	24-Mar-08	20:00
TB032808A2	TB032808A2	28-Mar-08	9:20	28-Mar-08	10:06
CCV-13111	CCV-13111	28-Mar-08	10:06	28-Mar-08	11:13
LCS-13111	LCS-13111	28-Mar-08	11:13	28-Mar-08	12:11
TF3M12313SA	0803106-005AMS	28-Mar-08	12:11	28-Mar-08	12:50
TF3M12313SA	0803106-005AMSD	28-Mar-08	12:50	28-Mar-08	14:49
TF3M12313SA	0803106-005A	28-Mar-08	14:49	28-Mar-08	23:22
MB-13111	MB-13111	28-Mar-08	23:22	28-Mar-08	23:22

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 12
INSTRUMENT PERFORMANCE CHECK
(BFB or DFTPP)

Analytical Method:	SW8260B	**AAB #:**	MS01_11_080318A
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**	
Instrument ID:	MS01_11	**Injection Date/Time:**	3/18/2008 10:30:00 AM
Initial Calibration ID:	1204	**File ID:**	C:\HPCHEM\1\DATA\T1899.D
Compound:	SW8260B	**Sample ID:**	TB031808A1

Mass	Ion Abundance Criteria	% Relative Abundance	Q
50	15 - 40% of m/z 95	21.0	
75	30 - 60% of m/z 95	51.9	
95	Base peak, 100% relative abundance	100	
96	5 - 9% of m/z 95	6.7	
173	Less than 2% of m/z 174	0	
174	Greater than 50% of m/z 95	70.2	
175	5 - 9% of m/z 174	7.3	
176	Greater than 95% but less than 101% of m/z 174	96.5	
177	5 - 9% of m/z 176	6.8	

AFCEE
ORGANIC ANALYSES DATA SHEET 12
INSTRUMENT PERFORMANCE CHECK
(BFB or DFTPP)

Analytical Method:	SW8260B	**AAB #:**	MS01_11_080324A
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**	
Instrument ID:	MS01_11	**Injection Date/Time:**	3/24/2008 10:52:00 AM
Initial Calibration ID:	1204	**File ID:**	C:\HPCHEM\1\DATA\T1960.D
Compound:	SW8260B	**Sample ID:**	TB032408A1

Mass	Ion Abundance Criteria	% Relative Abundance	Q
50	15 - 40% of m/z 95	19.9	
75	30 - 60% of m/z 95	51.5	
95	Base peak, 100% relative abundance	100	
96	5 - 9% of m/z 95	7.0	
173	Less than 2% of m/z 174	0	
174	Greater than 50% of m/z 95	75.5	
175	5 - 9% of m/z 174	7.4	
176	Greater than 95% but less than 101% of m/z 174	96.7	
177	5 - 9% of m/z 176	6.7	

AFCEE
ORGANIC ANALYSES DATA SHEET 12
INSTRUMENT PERFORMANCE CHECK
(BFB or DFTPP)

Analytical Method:	SW8260B	**AAB #:**	MS01_11_080325B
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**	
Instrument ID:	MS01_11	**Injection Date/Time:**	3/25/2008 9:51:00 AM
Initial Calibration ID:	1204	**File ID:**	C:\HPCHEM\1\DATA\T1980.D
Compound:	SW8260B	**Sample ID:**	TB032508A1

Mass	Ion Abundance Criteria	% Relative Abundance	Q
50	15 - 40% of m/z 95	19.8	
75	30 - 60% of m/z 95	51.9	
95	Base peak, 100% relative abundance	100	
96	5 - 9% of m/z 95	6.9	
173	Less than 2% of m/z 174	0	
174	Greater than 50% of m/z 95	75.1	
175	5 - 9% of m/z 174	7.4	
176	Greater than 95% but less than 101% of m/z 174	97.3	
177	5 - 9% of m/z 176	6.5	

AFCEE
ORGANIC ANALYSES DATA SHEET 12
INSTRUMENT PERFORMANCE CHECK
(BFB or DFTPP)

Analytical Method:	SW8260B	**AAB #:**	MS02_12_080324A
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**	
Instrument ID:	MS02_12	**Injection Date/Time:**	3/24/2008 1:10:00 PM
Initial Calibration ID:	1212	**File ID:**	C:\HPCHEM\1\DATA\M4661.D
Compound:	SW8260B	**Sample ID:**	TB032408A2

Mass	Ion Abundance Criteria	% Relative Abundance	Q
50	15 - 40% of m/z 95	22.2	
75	30 - 60% of m/z 95	52.9	
95	Base peak, 100% relative abundance	100	
96	5 - 9% of m/z 95	5.4	
173	Less than 2% of m/z 174	0	
174	Greater than 50% of m/z 95	50.7	
175	5 - 9% of m/z 174	6.6	
176	Greater than 95% but less than 101% of m/z 174	99.8	
177	5 - 9% of m/z 176	5.6	

AFCEE
ORGANIC ANALYSES DATA SHEET 12
INSTRUMENT PERFORMANCE CHECK
(BFB or DFTPP)

Analytical Method:	SW8260B	**AAB #:**	MS02_12_080328A
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**	
Instrument ID:	MS02_12	**Injection Date/Time:**	3/28/2008 9:20:00 AM
Initial Calibration ID:	1212	**File ID:**	C:\HPCHEM\1\DATA\M4723.D
Compound:	SW8260B	**Sample ID:**	TB032808A2

Mass	Ion Abundance Criteria	% Relative Abundance	Q
50	15 - 40% of m/z 95	20.6	
75	30 - 60% of m/z 95	46.0	
95	Base peak, 100% relative abundance	100	
96	5 - 9% of m/z 95	7.0	
173	Less than 2% of m/z 174	0	
174	Greater than 50% of m/z 95	65.5	
175	5 - 9% of m/z 174	7.2	
176	Greater than 95% but less than 101% of m/z 174	97.4	
177	5 - 9% of m/z 176	6.2	

Life Science Laboratories, Inc.
5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Tuesday, April 29, 2008

Niels van Hoesel
FPM Group
153 Brooks Road
Rome, NY 13441

TEL:

Project: GRIFFISS AFB - TF 1 AND 3
RE: Analytical Result Order No.: 0804056

Dear Niels van Hoesel:

Life Science Laboratories, Inc. received 2 sample(s) on 4/9/2008 for the analyses presented in the following report.

Very truly yours,
Life Science Laboratories, Inc.

Monika Santucci

Monika Santucci
Project Manager

Laboratory Report

Project Management Case Narrative

INTRODUCTION/ANALYTICAL RESULTS

This report summarizes the laboratory results for samples from FPM, for the Griffiss AFB-TF 1 and 3- Rome, NY project.

CONDITION UPON RECEIPT/CHAIN OF CUSTODY

The cooler(s) were received intact. When the cooler(s) were received by the laboratory, the sample custodian(s) opened and inspected the shipment(s) for damage and custody inconsistencies. Chains of custody documenting receipt are presented in the chain of custody section. Each sample was assigned a unique laboratory number and a custody file created. The samples were placed in a secured walk-in cooler and signed in and out by the chemists performing the tests. The sign out record, or lab chronicle, is presented in the chain of custody section.

There were no discrepancies noted upon receipt. The temperatures of the coolers ranged from -1.8°C to 2.4°C.

METHODOLOGY

The following methods were used to perform the analyses:

PARAMETER	METHOD	REFERENCE
Volatile Organics	SW8260B	1

1) Test Methods for Evaluating Solid Wastes, SW-846 Third Edition, Final Update III, December 1996 (including the QC requirements specified in AFCEE 4.0 + variances).

QUALITY CONTROL

QA/QC results are summarized in the Laboratory Report.

RAW DATA

The raw data is not requested for this report. Life Science Laboratories, Inc. will keep the raw data on file.

Total # of pages in this report: _____

GC/MS Volatile Organics Case Narrative

Client:	FPM
Project/Order:	Griffiss AFB-TF 1 and 3
Work Order #:	0804056
Methodology:	8260B

Analyzed/Reviewed by (Initials/Date): MA 4/25/08

Supervisor/Reviewed by (Initials/Date): PT (by MA) 4/25/08

QA/QC Review (Initials/Date): YK 4/25/08

File Name: G:\Narratives\MSVoa\0804056svnar.doc

GC/MS Volatile Organics
The GC/MS Volatile instruments are equipped with a Restek Rtx-VMS, 40 m x 0.18 mm ID capillary column (MS01 & MS03), Restek Rtx-502.2, 105 m x 0.53 mm ID capillary column (MS02), and Restek Rtx-VMS, 60 m x 0.25mm ID capillary column (MS04), and a Vocarb 3000 adsorbent trap.

There were no excursions to note. All QC results were within established control limits.

Holding Times and Sample Preservation
All samples were prepared and analyzed within the method and/or QAPP specified holding time requirements. Samples had a pH of < 2.

Laboratory Control Sample
All spike recoveries met method and/or project specific QC criteria.

Surrogate Standards
All surrogate standard recoveries met method and/or project specific QC criteria.

Internal Standards
All internal standard areas met method and/or project specific QC criteria.

Calibrations
All initial calibrations and calibration verifications met method and/or project specific QC criteria.

Preparation Blanks
All preparation blanks met method and/or project specific QC criteria.

Miscellaneous
The reporting limits for sample TF3M119R11SA[0804056-001A] were raised due to matrix interference.

Life Science Laboratories, Inc.

Date: *29-Apr-08*

CLIENT: FPM Group
Project: Griffiss AFB - TF 1 and 3
Lab Order: 0804056

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
0804056-001A	TF3M119R11SA	WL-TF3MW-119R	4/8/2008	4/9/2008
0804056-002A	TF3M121R11SA	WL-TF3MW-121R	4/8/2008	4/9/2008

Lab Order: 0804056
Client: FPM Group
Project: Griffiss AFB - TF 1 and 3

DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
0804056-001A	TF3M119R11SA	4/8/2008 1:17:00 PM	Groundwater	Volatile Organic Compounds by GC/MS			4/10/2008
0804056-002A	TF3M121R11SA	4/8/2008 1:43:00 PM		Volatile Organic Compounds by GC/MS			4/10/2008

Chain of Custody

External Chain of Custody

AFCEE
CHAIN OF CUSTODY RECORD

COC#: _2_ SDG#: _183_ Cooler ID: _A_

Ship to: Monika Santucci Life Science Laboratories, Inc. 5000 Brittonfield Pkwy, Suite 200 East Syracuse, NY 13057 Tel: (315)437-0200	Project Name: Griffiss AFB TF 1 and 3 Sampling Sampler Name: David Forse	Send Results to: Niels van Hoesel FPM Group 153 Brooks Road Rome, NY 13441
Carrier: LSL courier.	Sampler Signature: David P Forse	Phone: (315) 336-7721 Ext. 205

Analyses Requested

Field Sample ID	Location ID (LOCID)	Date 2008	Time	MATRIX	SMCODE	SBD/SED	SACODE	Preservative	Filt./UnFilt.	No. of Containers	VOC note 1 40 mL vials (HCl)	SVOCs note 2 1 L amber	Total Alkalinity note 3 (zero headspace)	Nitrogen (Nitrate) note 4 16 oz poly	Total Sulfide Note 5 16 oz poly (ZnAC and NaOH)	Comments
TF3M119R11SA	WL-TF3MW-119R	4/8	1317	WG	B	0/0	N	HCl	Unf.	3	3	-	-	-	-	
TF3M121R11SA	WL-TF3MW-121R	4/8	1343	WG	B	0/0	N	HCl	Unf.	3	3	-	-	-	-	

Sample Condition Upon Receipt at Laboratory: Cooler Temperature: -1.3, 2.4, -1.4, -1.4

custody seals intact

Special Instructions/Comments: Analyses to be conducted in compliance with AFCEE QAPP 4.0

Note 1: VOCs: SW8260, AFCEE QAPP 4.0 List.

Note 2: SVOCs: SW8270, AFCEE QAPP 4.0 List.

Note 3: Total Alkalinity, 310.2.

Note 4: Nitrogen: 353.2, Nitrate: Automated.

Note 5: Total Sulfide: 376.2.

#1 Released by: (Sig)	Date:	#2 Released by: (Sig) David P Forse	Date: 4/8/08	#3 Released by: (Sig)	Date: 4/9/08
Company Name:	Time:	Company Name: FPM Group Ltd	Time: 1700	Company Name: LSL	Time
#1 Received by: (Sig) Niels van Hoesel	Date: 2/20/07	#2 Received by: (Sig)	Date 4/08/08	#3 Received by: (Sig)	Date 4/9/08
Company Name: FPM Group Ltd	Time: 1000	Company Name: LSL	Time: 1700	Company Name: LSL	Time: 0730

MATRIX
WG = Ground water
WQ = Water Quality Control Matrix
SO = Soil

SMCODE
B = Bailer
G = Grab (only for EB).
NA = Not Applicable (only for AB/TB)
PP = Peristaltic Pump

SACODE
N = Normal Sample
AB = Ambient Blank
TB = Trip Blank
EB = Equipment Blank

BP = Bladder Pump
SP = Submersible Pump
SS = Split Spoon

FD = Field Duplicate
MS = Matrix Spike
SD = Matrix Spike Duplicate

Life Science Laboratories, Inc.

Sample Receipt Checklist

Client Name: **FPM** Date and Time Received: **4/9/2008 7:30:00 AM**

Work Order Number **0804056** Received by: kac

Checklist completed by: LL (Initials) 4-9-08 (Date) Reviewed by: MS (Initials) 4/9/08 (Date)

Matrix: Carrier name: Hand Delivered

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☐	No ☐	Not Applicable ☑

Comments:

Corrective Action::

Client/Project Griffiss TF1 #3 - 08040516

Sample Control Record

Sample ID	Frac	Client Sample ID	Removed By	Date and Time Removed	Analysis	Date and Time Returned
001, 002	A		GS	4/10/08 15:05	8260	NR

Analytical Results

AFCEE
ORGANIC ANALYSES DATA PACKAGE

Analytical Method: SW8260B

AAB #: R13266

Lab Name: Life Science Laboratories, Inc.

Contract Number:

Base/Command:

Prime Contractor: FPM Group

Field Sample ID	Lab Sample ID
TF3M119R11SA	0804056-001A
TF3M121R11SA	0804056-002A

Comments:

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager's designee, as verified by the following signature.

Signature: Monika Santucci Name: Monika Santucci

Date: 4/28/08 Title: Project Manager

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R13266
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	TF3M119R11SA	**Lab Sample ID:**	0804056-001A	**Matrix:**	Groundwater
% Solids:	0	**Initial Calibration ID:**	1221	**File ID:**	M4890.D
Date Received:	09-Apr-08	**Date Extracted:**		**Date Analyzed:**	10-Apr-08
Concentration Units (ug/L or mg/Kg dry weight):	µg/L			**Sample Size:**	25 mL

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
(m+p)-Xylene	0.250	5.00	0.250	2.5		U
1,1,1,2-Tetrachloroethane	0.625	1.25	0.625	2.5		U
1,1,1-Trichloroethane	0.400	2.50	0.400	2.5		U
1,1,2,2-Tetrachloroethane	0.400	1.25	0.400	2.5		U
1,1,2-Trichloroethane	0.625	2.50	0.625	2.5		U
1,1-Dichloroethane	0.400	2.50	0.400	2.5		U
1,1-Dichloroethene	0.625	2.50	0.625	2.5		U
1,1-Dichloropropene	0.625	2.50	0.625	2.5		U
1,2,3-Trichlorobenzene	1.25	2.50	1.25	2.5		U
1,2,3-Trichloropropane	2.50	5.00	2.50	2.5		U
1,2,4-Trichlorobenzene	1.25	2.50	1.25	2.5		U
1,2,4-Trimethylbenzene	0.400	2.50	0.400	2.5		U
1,2-Dibromo-3-chloropropane	6.25	12.5	6.25	2.5		U
1,2-Dibromoethane	0.625	2.50	0.625	2.5		U
1,2-Dichlorobenzene	0.400	2.50	0.400	2.5		U
1,2-Dichloroethane	0.625	1.25	0.625	2.5		U
1,2-Dichloropropane	0.400	2.50	0.400	2.5		U
1,3,5-Trimethylbenzene	0.400	2.50	0.400	2.5		U
1,3-Dichlorobenzene	0.400	2.50	0.400	2.5		U
1,3-Dichloropropane	0.400	1.25	0.400	2.5		U
1,4-Dichlorobenzene	0.400	1.25	0.400	2.5		U
1-Chlorohexane	0.625	2.50	0.625	2.5		U
2,2-Dichloropropane	1.25	2.50	1.25	2.5		U
2-Butanone	6.25	25.0	6.25	2.5		U
2-Chlorotoluene	0.250	2.50	0.250	2.5		U
4-Chlorotoluene	0.250	2.50	0.250	2.5		U
4-Methyl-2-pentanone	2.50	25.0	2.50	2.5		U
Acetone	6.25	25.0	6.25	2.5		U
Benzene	0.400	1.25	0.400	2.5		U
Bromobenzene	0.400	2.50	0.400	2.5		U
Bromochloromethane	0.400	2.50	0.400	2.5		U
Bromodichloromethane	0.400	1.25	0.400	2.5		U

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R13266
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	TF3M119R11SA	**Lab Sample ID:**	0804056-001A	**Matrix:**	Groundwater
% Solids:	0	**Initial Calibration ID:**	1221	**File ID:**	M4890.D
Date Received:	09-Apr-08	**Date Extracted:**		**Date Analyzed:**	10-Apr-08
Concentration Units (ug/L or mg/Kg dry weight):	µg/L			**Sample Size:**	25 mL

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
Bromoform	1.25	2.50	1.25	2.5		U
Bromomethane	0.475	7.50	0.475	2.5		U
Carbon tetrachloride	0.625	2.50	0.625	2.5		U
Chlorobenzene	0.400	1.25	0.400	2.5		U
Chloroethane	1.25	2.50	1.25	2.5		U
Chloroform	0.250	1.25	0.250	2.5		U
Chloromethane	1.25	2.50	1.25	2.5		U
cis-1,2-Dichloroethene	0.400	2.50	0.400	2.5		U
cis-1,3-Dichloropropene	0.625	1.25	0.625	2.5		U
Dibromochloromethane	0.400	1.25	0.400	2.5		U
Dibromomethane	0.400	2.50	0.400	2.5		U
Dichlorodifluoromethane	0.625	2.50	0.625	2.5		U
Ethylbenzene	0.250	2.50	0.250	2.5		U
Hexachlorobutadiene	1.25	2.50	1.25	2.5		U
Isopropylbenzene	0.400	2.50	0.400	2.5		U
Methyl tert-butyl ether	1.25	12.5	1.25	2.5		U
Methylene chloride	0.400	2.50	0.400	2.5		U
n-Butylbenzene	0.400	2.50	0.400	2.5		U
n-Propylbenzene	0.250	2.50	0.250	2.5		U
Naphthalene	1.25	2.50	1.25	2.5		U
o-Xylene	0.400	2.50	0.400	2.5		U
p-Isopropyltoluene	0.400	2.50	0.400	2.5		U
sec-Butylbenzene	0.400	2.50	0.400	2.5		U
Styrene	0.400	2.50	0.400	2.5		U
tert-Butylbenzene	0.400	2.50	0.400	2.5		U
Tetrachloroethene	0.250	2.50	0.250	2.5		U
Toluene	0.250	2.50	0.250	2.5		U
trans-1,2-Dichloroethene	0.400	2.50	0.400	2.5		U
trans-1,3-Dichloropropene	0.625	2.50	0.625	2.5		U
Trichloroethene	0.250	2.50	0.250	2.5		U
Trichlorofluoromethane	0.250	2.50	0.250	2.5		U
Vinyl chloride	1.25	2.50	1.25	2.5		U

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R13266
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	TF3M119R11SA	**Lab Sample ID:**	0804056-001A	**Matrix:**	Groundwater
% Solids:	0	**Initial Calibration ID:**	1221	**File ID:**	M4890.D
Date Received:	09-Apr-08	**Date Extracted:**		**Date Analyzed:**	10-Apr-08
Concentration Units (ug/L or mg/Kg dry weight):	ug/L			**Sample Size:**	25 mL

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
Xylenes (total)	0.650	5.00	0.650	2.5		U

Surrogate	Recovery	Control Limits	Qualifier
1,2-Dichloroethane-d4	106	72 - 119	
4-Bromofluorobenzene	110	76 - 119	
Toluene-d8	115	81 - 120	

Internal Std	Area Counts	Area Count Limits	Qualifier
1,4-Dichlorobenzene-d4	1542709	811362 - 3245448	
Chlorobenzene-d5	2218231	1119858 - 4479430	
Fluorobenzene	4291135	1972798 - 7891190	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R13266
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	TF3M121R11SA	**Lab Sample ID:**	0804056-002A	**Matrix:**	Groundwater
% Solids:	0	**Initial Calibration ID:**	1221	**File ID:**	M4888.D
Date Received:	09-Apr-08	**Date Extracted:**		**Date Analyzed:**	10-Apr-08
Concentration Units (ug/L or mg/Kg dry weight):	ug/L			**Sample Size:**	25 mL

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
(m+p)-Xylene	0.100	2.00	0.100	1		U
1,1,1,2-Tetrachloroethane	0.250	0.500	0.250	1		U
1,1,1-Trichloroethane	0.160	1.00	0.160	1		U
1,1,2,2-Tetrachloroethane	0.160	0.500	0.160	1		U
1,1,2-Trichloroethane	0.250	1.00	0.250	1		U
1,1-Dichloroethane	0.160	1.00	0.160	1		U
1,1-Dichloroethene	0.250	1.00	0.250	1		U
1,1-Dichloropropene	0.250	1.00	0.250	1		U
1,2,3-Trichlorobenzene	0.500	1.00	0.500	1		U
1,2,3-Trichloropropane	1.00	2.00	1.00	1		U
1,2,4-Trichlorobenzene	0.500	1.00	0.500	1		U
1,2,4-Trimethylbenzene	0.160	1.00	0.160	1		U
1,2-Dibromo-3-chloropropane	2.50	5.00	2.50	1		U
1,2-Dibromoethane	0.250	1.00	0.250	1		U
1,2-Dichlorobenzene	0.160	1.00	0.160	1		U
1,2-Dichloroethane	0.250	0.500	0.250	1		U
1,2-Dichloropropane	0.160	1.00	0.160	1		U
1,3,5-Trimethylbenzene	0.160	1.00	0.160	1		U
1,3-Dichlorobenzene	0.160	1.00	0.160	1		U
1,3-Dichloropropane	0.160	0.500	0.160	1		U
1,4-Dichlorobenzene	0.160	0.500	0.160	1		U
1-Chlorohexane	0.250	1.00	0.250	1		U
2,2-Dichloropropane	0.500	1.00	0.500	1		U
2-Butanone	2.50	10.0	2.50	1		U
2-Chlorotoluene	0.100	1.00	0.100	1		U
4-Chlorotoluene	0.100	1.00	0.100	1		U
4-Methyl-2-pentanone	1.00	10.0	1.00	1		U
Acetone	2.50	10.0	2.50	1		U
Benzene	0.160	0.500	0.160	1		U
Bromobenzene	0.160	1.00	0.160	1		U
Bromochloromethane	0.160	1.00	0.160	1		U
Bromodichloromethane	0.160	0.500	0.160	1		U

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R13266
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	TF3M121R11SA	**Lab Sample ID:**	0804056-002A	**Matrix:**	Groundwater
% Solids:	0	**Initial Calibration ID:**	1221	**File ID:**	M4888.D
Date Received:	09-Apr-08	**Date Extracted:**		**Date Analyzed:**	10-Apr-08
Concentration Units (ug/L or mg/Kg dry weight):	ug/L			**Sample Size:**	25 mL

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
Bromoform	0.500	1.00	0.500	1		U
Bromomethane	0.190	3.00	0.190	1		U
Carbon tetrachloride	0.250	1.00	0.250	1		U
Chlorobenzene	0.160	0.500	0.160	1		U
Chloroethane	0.500	1.00	0.500	1		U
Chloroform	0.100	0.500	0.100	1		U
Chloromethane	0.500	1.00	0.500	1		U
cis-1,2-Dichloroethene	0.160	1.00	0.160	1		U
cis-1,3-Dichloropropene	0.250	0.500	0.250	1		U
Dibromochloromethane	0.160	0.500	0.160	1		U
Dibromomethane	0.160	1.00	0.160	1		U
Dichlorodifluoromethane	0.250	1.00	0.250	1		U
Ethylbenzene	0.100	1.00	0.100	1		U
Hexachlorobutadiene	0.500	1.00	0.500	1		U
Isopropylbenzene	0.160	1.00	0.160	1		U
Methyl tert-butyl ether	0.500	5.00	0.500	1		U
Methylene chloride	0.160	1.00	0.160	1		U
n-Butylbenzene	0.160	1.00	0.160	1		U
n-Propylbenzene	0.100	1.00	0.100	1		U
Naphthalene	0.500	1.00	0.500	1		U
o-Xylene	0.160	1.00	0.160	1		U
p-Isopropyltoluene	0.160	1.00	0.160	1		U
sec-Butylbenzene	0.160	1.00	0.160	1		U
Styrene	0.160	1.00	0.160	1		U
tert-Butylbenzene	0.160	1.00	0.160	1		U
Tetrachloroethene	0.100	1.00	0.100	1		U
Toluene	0.100	1.00	0.100	1		U
trans-1,2-Dichloroethene	0.160	1.00	0.160	1		U
trans-1,3-Dichloropropene	0.250	1.00	0.250	1		U
Trichloroethene	0.100	1.00	1.18	1		
Trichlorofluoromethane	0.100	1.00	0.100	1		U
Vinyl chloride	0.500	1.00	0.500	1		U

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R13266
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	TF3M121R11SA	**Lab Sample ID:**	0804056-002A	**Matrix:**	Groundwater
% Solids:	0	**Initial Calibration ID:**	1221	**File ID:**	M4888.D
Date Received:	09-Apr-08	**Date Extracted:**		**Date Analyzed:**	10-Apr-08
Concentration Units (ug/L or mg/Kg dry weight):	ug/L			**Sample Size:**	25 mL

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
Xylenes (total)	0.260	2.00	0.260	1		U

Surrogate	Recovery	Control Limits	Qualifier
1,2-Dichloroethane-d4	110	72 - 119	
4-Bromofluorobenzene	113	76 - 119	
Toluene-d8	109	81 - 120	

Internal Std	Area Counts	Area Count Limits	Qualifier
1,4-Dichlorobenzene-d4	1462540	811362 - 3245448	
Chlorobenzene-d5	2206059	1119858 - 4479430	
Fluorobenzene	3913963	1972798 - 7891190	

Comments:

Quality Control Results

GC/MS Volatile Organics Data

AFCEE
ORGANIC ANALYSES DATA SHEET 3
INITIAL MULTIPOINT CALIBRATION-GC/MS ANALYSIS

Analytical Method: 8260B

AAB #:

Lab Name: Life Science Laboratories, Inc.

Contract #:

Instrument ID: HP5970 GCMS#2

Date of Initial Calibration: 07-APR-08

Initial Calibration ID: 1221

Concentration Units (ug/L or mg/kg): ug/L

SEE ATTACHED

Comments:

AFCEE FORM O-3

ICAL # 1221

Response Factor Report #2MS12

Method : C:\HPCHEM\1\METHODS\M407VOCW.M (RTE Integrator)
Title : VOC's w/Restek RTX-502.2, 0.53mm x 105m, 3.0 df
Last Update : Tue Apr 08 10:25:42 2008
Response via : Initial Calibration

Calibration Files
0.5 =M4820.D 1.0 =M4824.D 2.0 =M4825.D
10 =M4823.D 20 =M4826.D 30 =M4827.D

		Compound	0.5	1.0	2.0	10	20	30	Avg	%RSD
1)	I	Fluorobenzene	ISTD							
2)		Dichlorodifluoromet	0.716	0.754	0.656	0.880	0.921	0.923	0.818	13.18
3)	P	Chloromethane	0.277	0.336	0.284	0.316	0.332	0.326	0.313	7.51
4)	CP	Vinyl chloride	0.266	0.280	0.250	0.303	0.334	0.335	0.299	11.42
5)		Bromomethane		0.189	0.117	0.150	0.208	0.228	0.187	24.23
6)		Chloroethane	0.120	0.145	0.141	0.186	0.181	0.170	0.161	15.79
7)		Trichlorofluorometh	0.603	0.662	0.569	0.783	0.798	0.795	0.712	13.79
8)		Acrolein		0.003	0.004	0.005	0.005	0.005	0.004#	20.58
9)		1,1,2-Trichloro-1,2	0.488	0.565	0.486	0.642	0.633	0.640	0.579	11.81
10)		Acetone		0.032	0.021	0.026	0.025	0.024	0.025#	14.76
11)	CPM	1,1-Dichloroethene	0.157	0.181	0.161	0.203	0.206	0.222	0.192	13.13
12)		Methyl acetate		0.072	0.066	0.084	0.080	0.077	0.077	8.51
13)		Methyl iodide	0.322	0.221	0.308	0.598	0.628	0.641	0.477	38.57
14)		Methylene chloride	0.384	0.484	0.363	0.298	0.299	0.301	0.346	20.46
15)		Acrylonitrile		0.017	0.018	0.022	0.025	0.025	0.022#	15.35
16)		Carbon disulfide	0.775	0.857	0.715	0.951	1.044	1.056	0.914	14.67
17)		Methyl tert-Butyl e	0.342	0.388	0.362	0.382	0.402	0.398	0.382	5.85
18)		trans-1,2-Dichloroe	0.230	0.259	0.231	0.272	0.292	0.291	0.266	10.16
19)		Vinyl acetate		0.222	0.211	0.257	0.265	0.241	0.239	8.53
20)	P	1,1-Dichloroethane	0.498	0.548	0.472	0.584	0.606	0.614	0.559	9.89
21)		2-Butanone		0.038	0.037	0.041	0.046	0.044	0.042#	9.39
22)		2,2-Dichloropropane	0.313	0.382	0.339	0.446	0.450	0.453	0.403	14.46
23)		cis-1,2-Dichloroeth	0.277	0.303	0.271	0.326	0.336	0.326	0.309	8.29
24)	CP	Chloroform	0.693	0.712	0.629	0.737	0.771	0.749	0.716	6.40
25)		Bromochloromethane	0.163	0.167	0.157	0.191	0.188	0.188	0.177	8.09
26)		1,1,1-Trichloroetha	0.403	0.469	0.420	0.566	0.589	0.594	0.517	16.23
27)		Cyclohexane	0.213	0.277	0.259	0.345	0.347	0.350	0.304	17.90
28)		1,1-Dichloropropene	0.333	0.370	0.333	0.448	0.455	0.463	0.407	14.55
29)	S	1,2-Dichloroethane-	0.221	0.265	0.239	0.272	0.249	0.236	0.245	7.55
30)		Carbon tetrachlorid	0.415	0.485	0.423	0.573	0.592	0.595	0.522	15.24
31)		1,2-Dichloroethane	0.245	0.281	0.264	0.330	0.303	0.296	0.288	9.53
32)	M	Benzene	0.718	0.768	0.710	0.871	0.879	0.878	0.812	9.51
33)	M	Trichloroethene	0.338	0.388	0.350	0.439	0.456	0.460	0.411	12.51
34)		Methylcyclohexane	0.223	0.257	0.241	0.358	0.353	0.363	0.307	20.58
35)	CP	1,2-Dichloropropane	0.305	0.330	0.294	0.343	0.350	0.348	0.331	6.93
36)		Bromodichloromethan	0.619	0.676	0.637	0.788	0.808	0.801	0.732	11.47
37)		Dibromomethane	0.246	0.272	0.260	0.308	0.312	0.304	0.286	9.30
38)		2-Chloroethylvinyl	0.076	0.088	0.083	0.106	0.096	0.093	0.091	10.52
39)		4-Methyl-2-pentanon		0.145	0.155	0.137	0.124	0.137	0.138	7.92
40)		cis-1,3-Dichloropro	0.306	0.371	0.359	0.460	0.482	0.484	0.421	17.67
41)	CPM	Toluene	0.454	0.490	0.453	0.569	0.590	0.593	0.533	12.15
42)		trans-1,3-Dichlorop	0.178	0.229	0.226	0.309	0.325	0.330	0.276	23.00
3)		2-Hexanone		0.070	0.066	0.094	0.093	0.092	0.085	15.90

(#) = Out of Range ### Number of calibration levels exceeded format ##

4/-1

Response Factor Report #2MS12

Method : C:\HPCHEM\1\METHODS\M407VOCW.M (RTE Integrator)
Title : VOC's w/Restek RTX-502.2, 0.53mm x 105m, 3.0 df
Last Update : Tue Apr 08 10:25:42 2008
Response via : Initial Calibration

Calibration Files
0.5 =M4820.D 1.0 =M4824.D 2.0 =M4825.D
10 =M4823.D 20 =M4826.D 30 =M4827.D

		Compound	0.5	1.0	2.0	10	20	30	Avg	%RSD
44)		1,1,2-Trichloroetha	0.186	0.209	0.202	0.237	0.237	0.233	0.220	9.32
45)	I	Chlorobenzene-d5	ISTD							
46)	S	Toluene-d8	1.309	1.432	1.304	1.501	1.615	1.646	1.490	9.81
47)		1,3-Dichloropropane	0.559	0.622	0.582	0.671	0.702	0.708	0.652	9.92
48)		Tetrachloroethene	0.735	0.814	0.728	0.881	0.931	0.948	0.853	11.12
49)		Dibromochloromethan	0.763	0.881	0.854	1.025	1.086	1.111	0.976	14.55
50)		1,2-Dibromoethane	0.575	0.573	0.562	0.672	0.695	0.709	0.644	11.07
51)		1-Chlorohexane	0.448	0.521	0.495	0.631	0.690	0.720	0.601	18.56
52)	PM	Chlorobenzene	1.297	1.334	1.224	1.424	1.382	1.376	1.341	4.89
53)		1,1,1,2-Tetrachloro	0.603	0.696	0.616	0.762	0.762	0.764	0.710	10.33
54)	CP	Ethylbenzene	1.744	1.888	1.645	2.077	1.908	1.915	1.865	7.36
55)		(m+p)-Xylene	0.558	0.621	0.557	0.747	0.705	0.722	0.662	12.29
56)		o-Xylene	0.567	0.603	0.561	0.682	0.741	0.760	0.667	13.31
57)		Styrene	0.879	0.968	0.973	1.159	1.213	1.243	1.098	14.04
58)	P	Bromoform	0.393	0.416	0.447	0.584	0.608	0.616	0.529	20.03
59)	I	1,4-Dichlorobenzene-d	ISTD							
60)		Isopropylbenzene	2.143	2.443	2.293	2.788	2.896	2.855	2.597	11.55
61)	P	1,1,2,2-Tetrachloro	0.824	0.940	0.891	1.047	1.003	0.952	0.944	7.65
62)	S	Bromofluorobenzene	1.615	1.884	1.653	1.778	1.741	1.687	1.714	5.53
63)		1,2,3-Trichloroprop	0.529	0.479	0.425	0.482	0.508	0.459	0.477	7.23
64)		trans-1,4-Dichloro-		0.021	0.034	0.065	0.065	0.069	0.055	39.76
65)		n-Propylbenzene	2.404	2.742	2.605	3.367	3.452	3.412	3.043	14.55
66)		Bromobenzene	0.847	0.982	0.954	1.054	1.034	1.011	0.983	6.97
67)		1,3,5-Trimethylbenz	1.484	1.512	1.554	1.995	2.075	2.060	1.815	15.47
68)		2-Chlorotoluene	2.327	2.441	2.366	2.695	2.775	2.564	2.526	6.56
69)		4-Chlorotoluene	2.032	2.359	2.227	2.542	2.467	2.526	2.375	7.86
70)		tert-Butylbenzene	1.488	1.670	1.606	2.069	2.149	2.165	1.894	15.44
71)		1,2,4-Trimethylbenz	1.195	1.317	1.319	1.771	1.871	1.872	1.601	19.23
72)		sec-Butylbenzene	1.939	2.293	2.185	2.900	3.032	3.037	2.620	17.74
73)		p-Isopropyltoluene	1.399	1.484	1.459	1.997	2.132	2.205	1.833	20.02
74)		1,3-Dichlorobenzene	1.349	1.532	1.437	1.690	1.683	1.681	1.570	8.61
75)		1,4-Dichlorobenzene	1.272	1.453	1.290	1.504	1.553	1.520	1.443	7.92
76)		n-Butylbenzene	1.048	1.267	1.220	1.742	1.927	1.952	1.582	24.59
77)		1,2-Dichlorobenzene	1.206	1.305	1.243	1.470	1.477	1.459	1.369	8.40
78)		1,2-Dibromo-3-chlor	0.113	0.147	0.143	0.161	0.165	0.164	0.151	12.76
79)		1,2,4-Trichlorobenz	0.410	0.504	0.525	0.684	0.729	0.757	0.624	22.68
80)		Hexachlorobutadiene	0.499	0.576	0.537	0.670	0.694	0.697	0.621	13.12
81)		Naphthalene		0.293	0.333	0.451	0.510	0.528	0.448	25.02
82)		1,2,3-Trichlorobenz	0.286	0.393	0.427	0.532	0.579	0.596	0.489	25.20

Giselle Stallock

(#) = Out of Range ### Number of calibration levels exceeded format ##

4/8/0

Response Factor Report #2MS12

Method : C:\HPCHEM\1\METHODS\M407VOCW.M (RTE Integrator)
Title : VOC's w/Restek RTX-502.2, 0.53mm x 105m, 3.0 df
Last Update : Tue Apr 08 10:35:07 2008
Response via : Initial Calibration

Calibration Files
40 =M4828.D = =
= = =

		Compound	40
1)	I	Fluorobenzene	----------ISTD----------
2)		Dichlorodifluoromet	0.879
3)	P	Chloromethane	0.323
4)	CP	Vinyl chloride	0.323
5)		Bromomethane	0.231
6)		Chloroethane	0.181
7)		Trichlorofluorometh	0.774
8)		Acrolein	0.005
9)		1,1,2-Trichloro-1,2	0.598
10)		Acetone	0.024
11)	CPM	1,1-Dichloroethene	0.210
12)		Methyl acetate	0.082
13)		Methyl iodide	0.623
14)		Methylene chloride	0.294
15)		Acrylonitrile	0.024
16)		Carbon disulfide	1.001
17)		Methyl tert-Butyl e	0.397
18)		trans-1,2-Dichloroe	0.286
19)		Vinyl acetate	0.238
20)	P	1,1-Dichloroethane	0.591
21)		2-Butanone	0.046
22)		2,2-Dichloropropane	0.437
23)		cis-1,2-Dichloroeth	0.320
24)	CP	Chloroform	0.718
25)		Bromochloromethane	0.188
26)		1,1,1-Trichloroetha	0.581
27)		Cyclohexane	0.339
28)		1,1-Dichloropropene	0.448
29)	S	1,2-Dichloroethane-	0.232
30)		Carbon tetrachlorid	0.574
31)		1,2-Dichloroethane	0.294
32)	M	Benzene	0.860
33)	M	Trichloroethene	0.445
34)		Methylcyclohexane	0.354
35)	CP	1,2-Dichloropropane	0.348
36)		Bromodichloromethan	0.794
37)		Dibromomethane	0.303
38)		2-Chloroethylvinyl	0.094
39)		4-Methyl-2-pentanon	0.131
40)		cis-1,3-Dichloropro	0.487
41)	CPM	Toluene	0.582
42)		trans-1,3-Dichlorop	0.335
)		2-Hexanone	0.097

Giselle Hallock

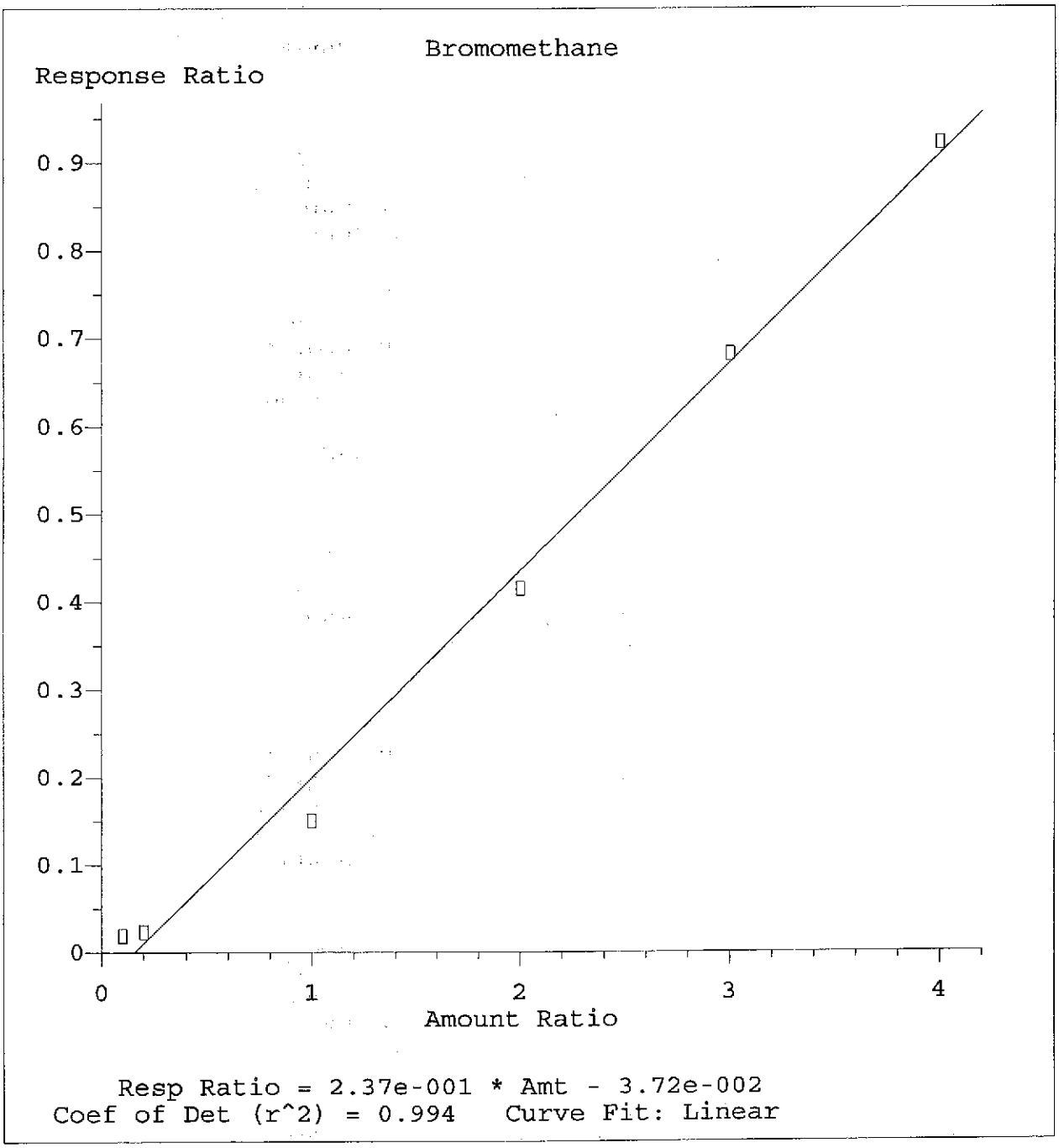
(#) = Out of Range ### Number of calibration levels exceeded format ###

Response Factor Report #2MS12

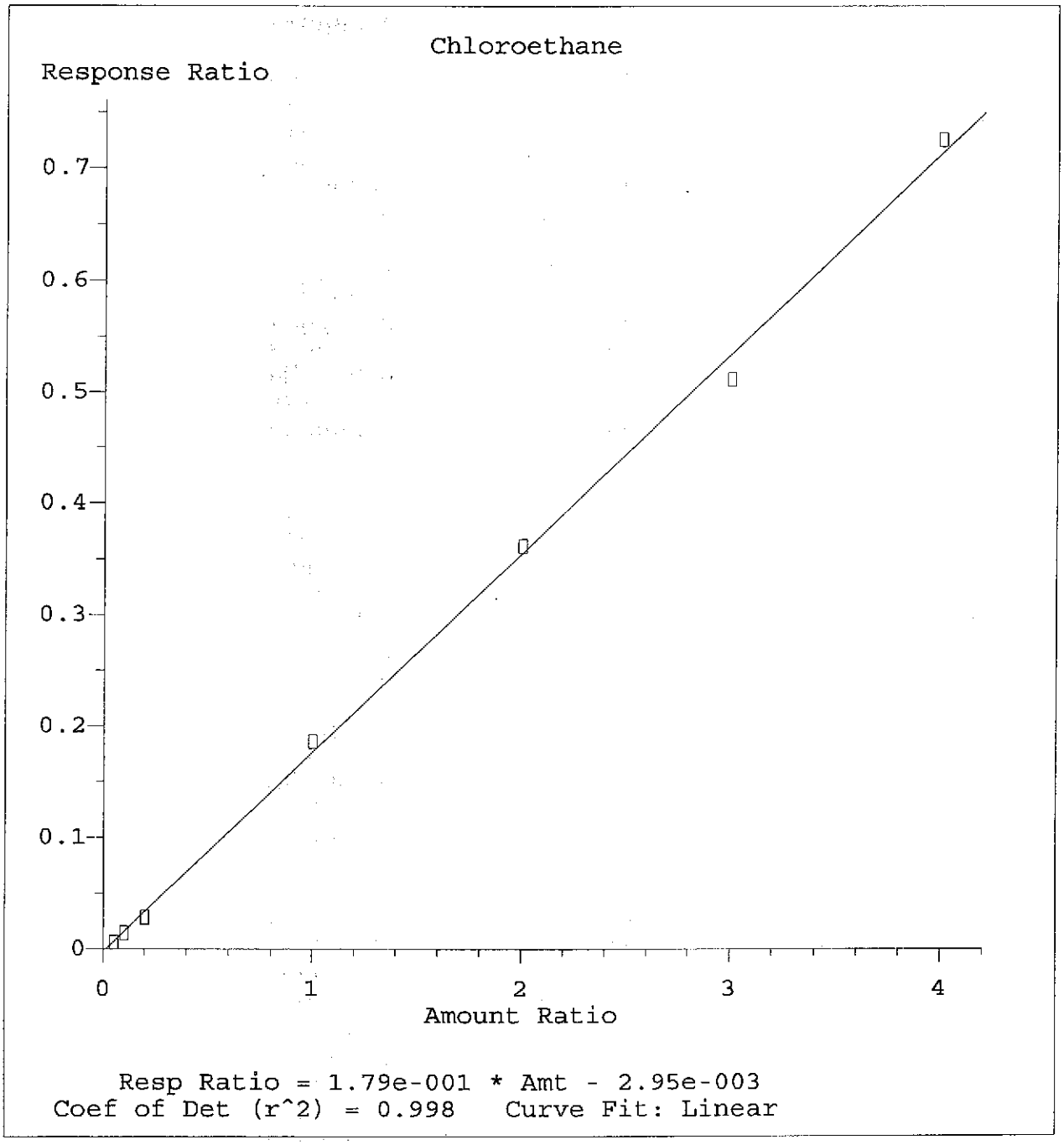
Method : C:\HPCHEM\1\METHODS\M407VOCW.M (RTE Integrator)
Title : VOC's w/Restek RTX-502.2, 0.53mm x 105m, 3.0 df
Last Update : Tue Apr 08 10:35:07 2008
Response via : Initial Calibration

Calibration Files
40 =M4828.D = =
= = =

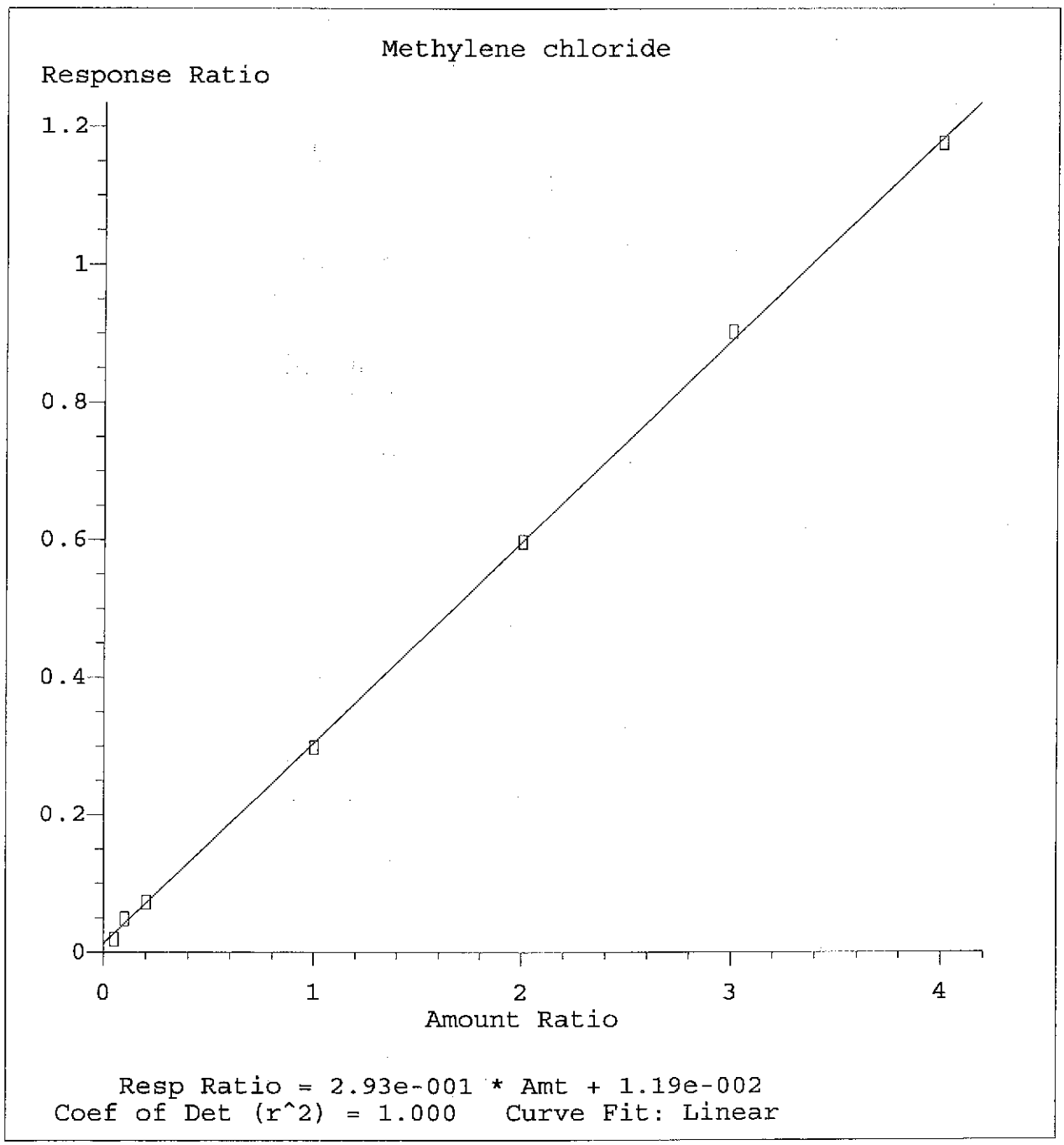
		Compound	40
44)		1,1,2-Trichloroetha	0.233
45)	I	Chlorobenzene-d5	----------ISTD----------
46)	S	Toluene-d8	1.620
47)		1,3-Dichloropropane	0.721
48)		Tetrachloroethene	0.936
49)		Dibromochloromethan	1.114
50)		1,2-Dibromoethane	0.723
51)		1-Chlorohexane	0.705
52)	PM	Chlorobenzene	1.353
53)		1,1,1,2-Tetrachloro	0.768
54)	CP	Ethylbenzene	1.877
55)		(m+p)-Xylene	0.722
56)		o-Xylene	0.754
57)		Styrene	1.254
58)	P	Bromoform	0.643
59)	I	1,4-Dichlorobenzene-d	----------ISTD----------
60)		Isopropylbenzene	2.758
61)	P	1,1,2,2-Tetrachloro	0.947
62)	S	Bromofluorobenzene	1.636
63)		1,2,3-Trichloroprop	0.457
64)		trans-1,4-Dichloro-	0.075
65)		n-Propylbenzene	3.321
66)		Bromobenzene	1.001
67)		1,3,5-Trimethylbenz	2.024
68)		2-Chlorotoluene	2.514
69)		4-Chlorotoluene	2.476
70)		tert-Butylbenzene	2.109
71)		1,2,4-Trimethylbenz	1.863
72)		sec-Butylbenzene	2.957
73)		p-Isopropyltoluene	2.155
74)		1,3-Dichlorobenzene	1.621
75)		1,4-Dichlorobenzene	1.507
76)		n-Butylbenzene	1.915
77)		1,2-Dichlorobenzene	1.423
78)		1,2-Dibromo-3-chlor	0.167
79)		1,2,4-Trichlorobenz	0.756
80)		Hexachlorobutadiene	0.670
81)		Naphthalene	0.571
82)		1,2,3-Trichlorobenz	0.614



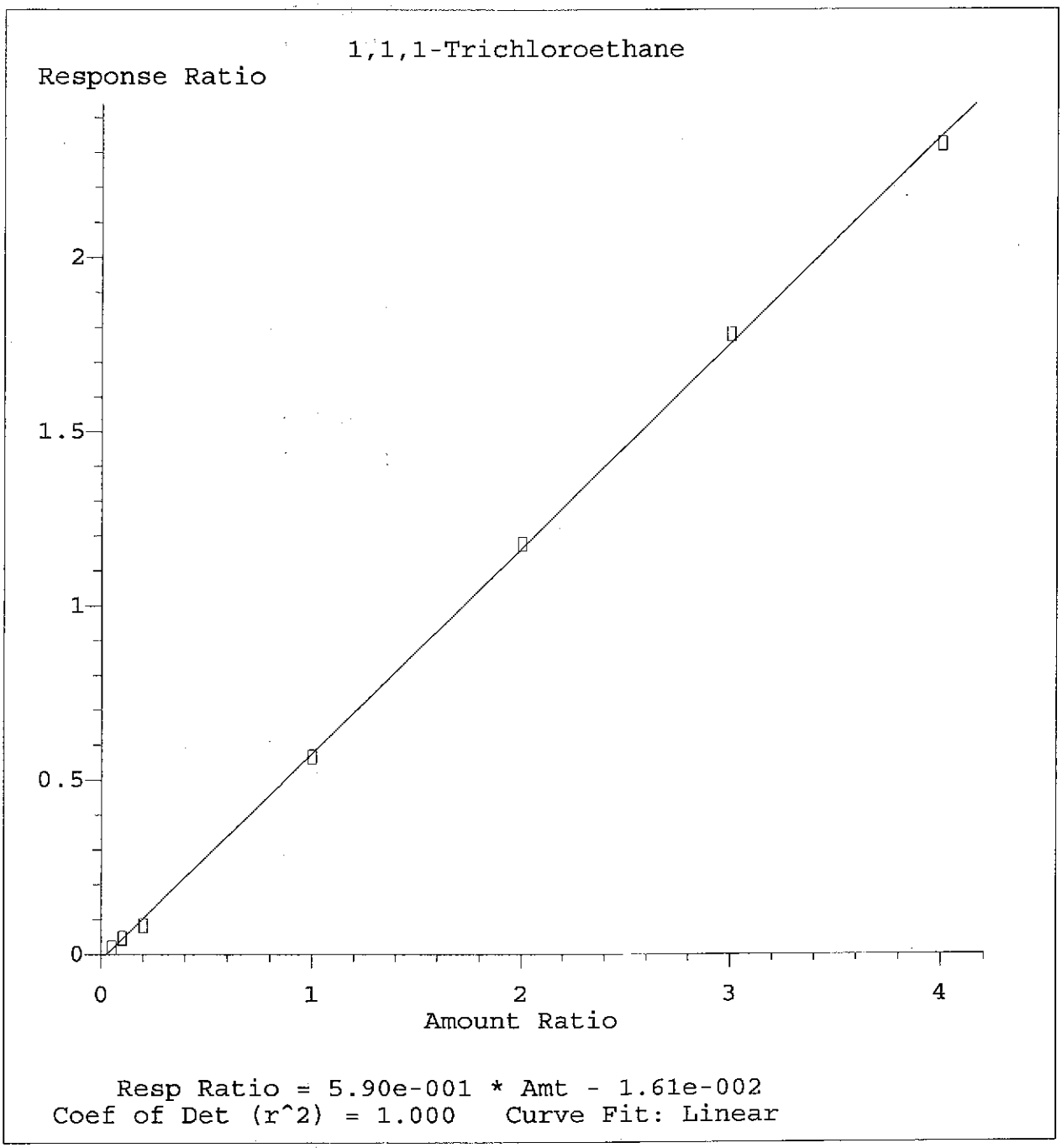
Method Name: C:\HPCHEM\1\METHODS\M407VOCW.M
Calibration Table Last Updated: Tue Apr 08 10:32:13 2008



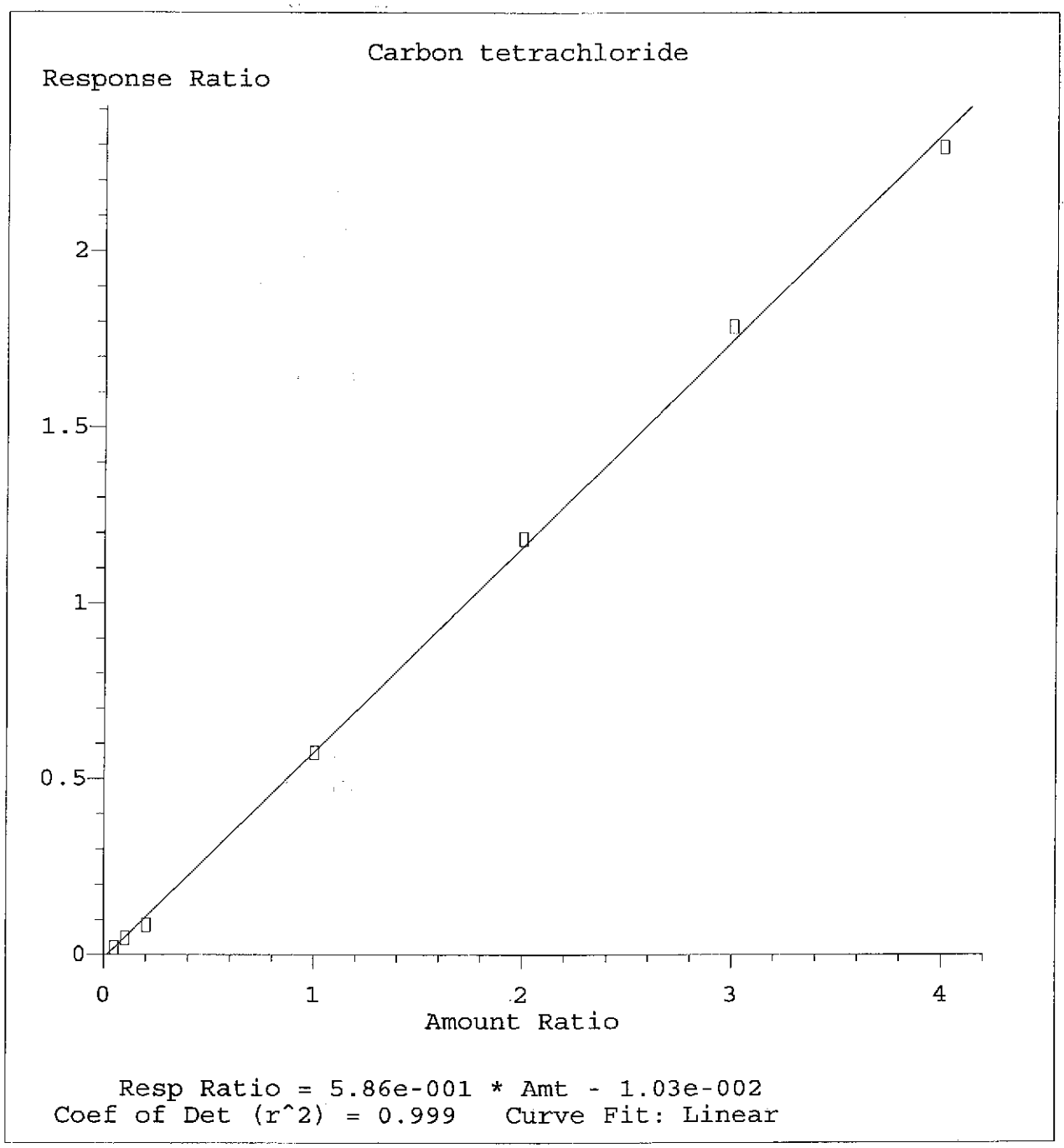
Method Name: C:\HPCHEM\1\METHODS\M407VOCW.M
Calibration Table Last Updated: Tue Apr 08 10:32:13 2008



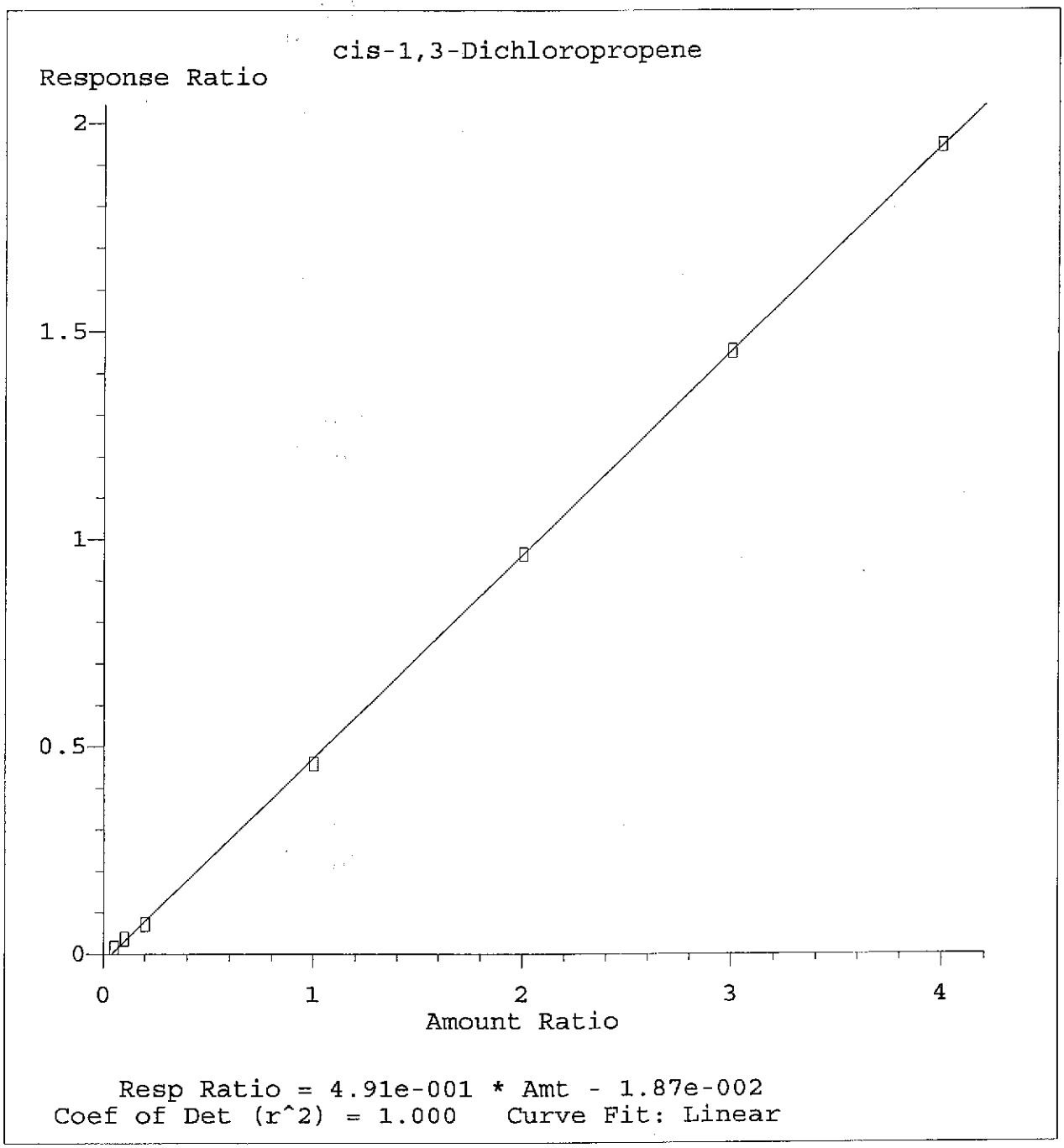
Method Name: C:\HPCHEM\1\METHODS\M407VOCW.M
Calibration Table Last Updated: Tue Apr 08 10:32:13 2008



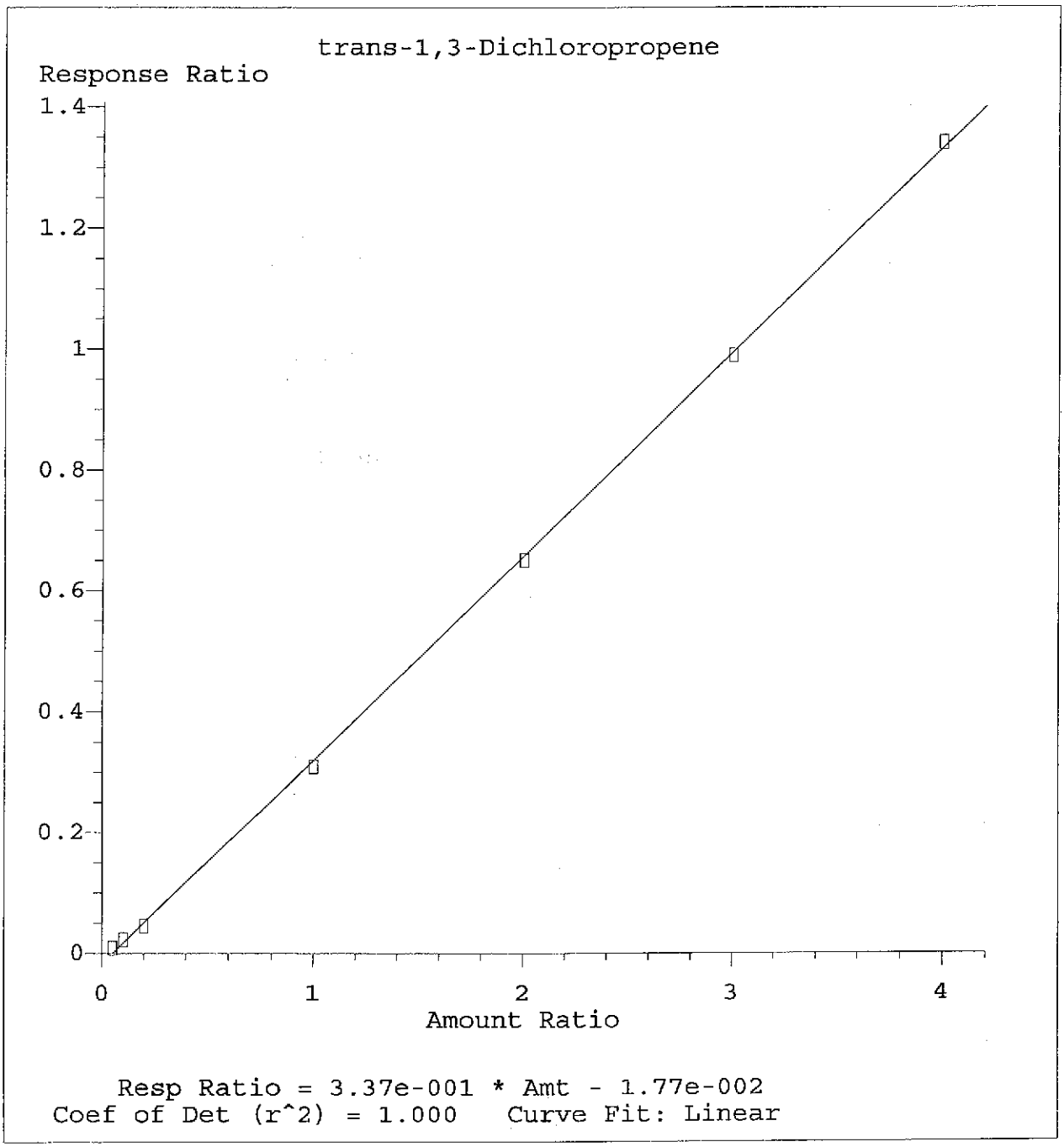
Method Name: C:\HPCHEM\1\METHODS\M407VOCW.M
Calibration Table Last Updated: Tue Apr 08 10:32:13 2008



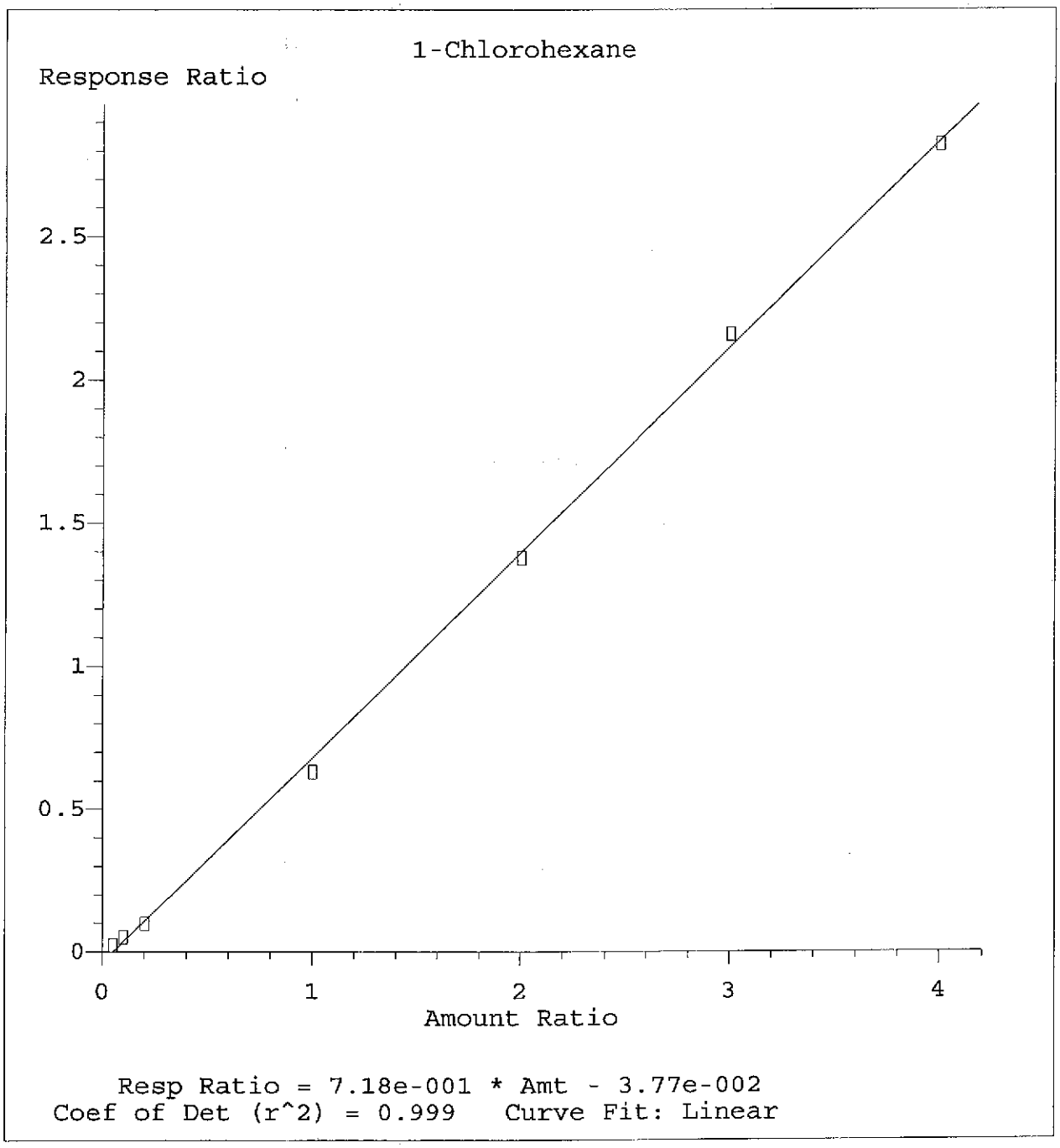
Method Name: C:\HPCHEM\1\METHODS\M407VOCW.M
Calibration Table Last Updated: Tue Apr 08 10:32:13 2008



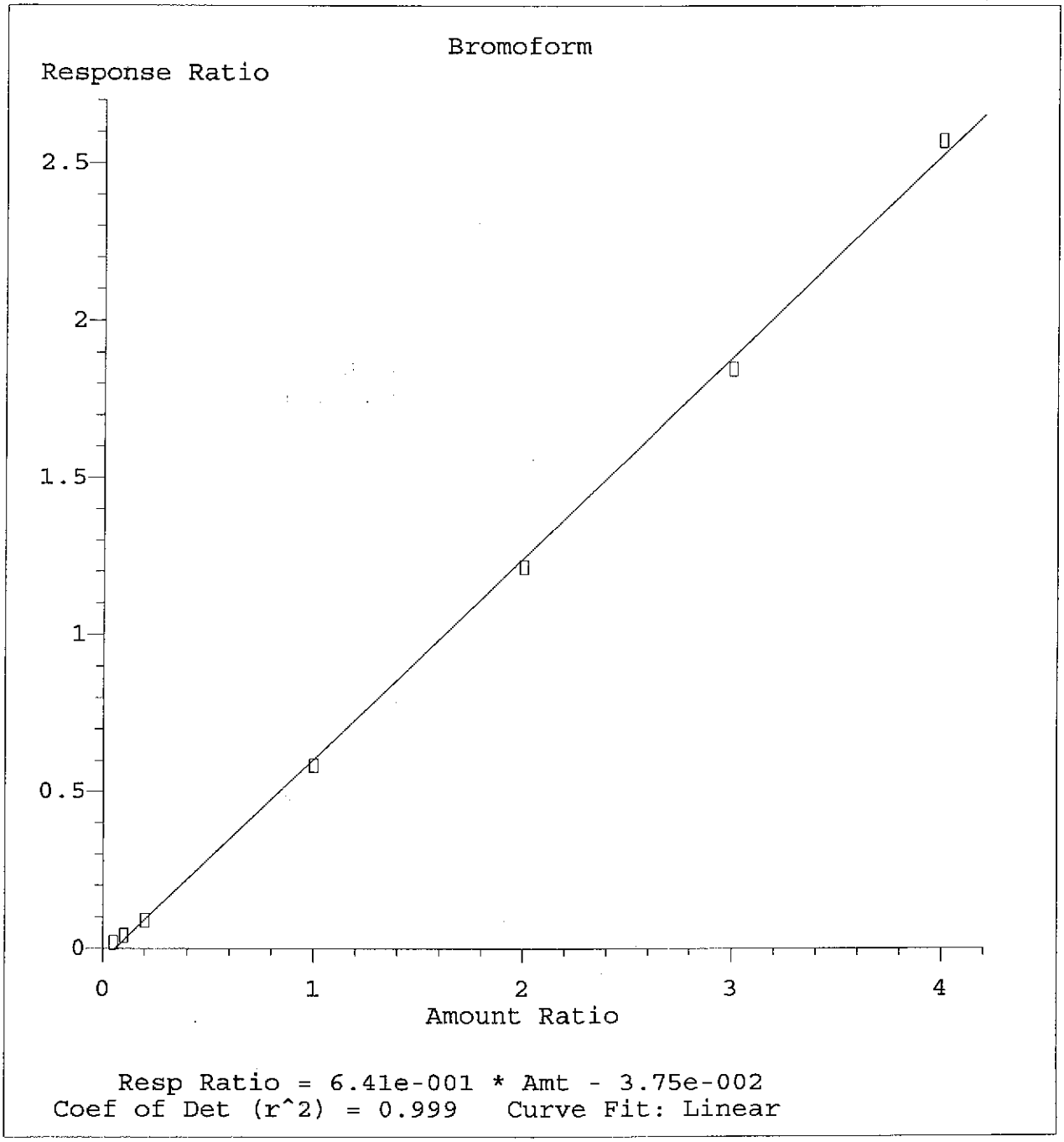
Method Name: C:\HPCHEM\1\METHODS\M407VOCW.M
Calibration Table Last Updated: Tue Apr 08 10:32:13 2008



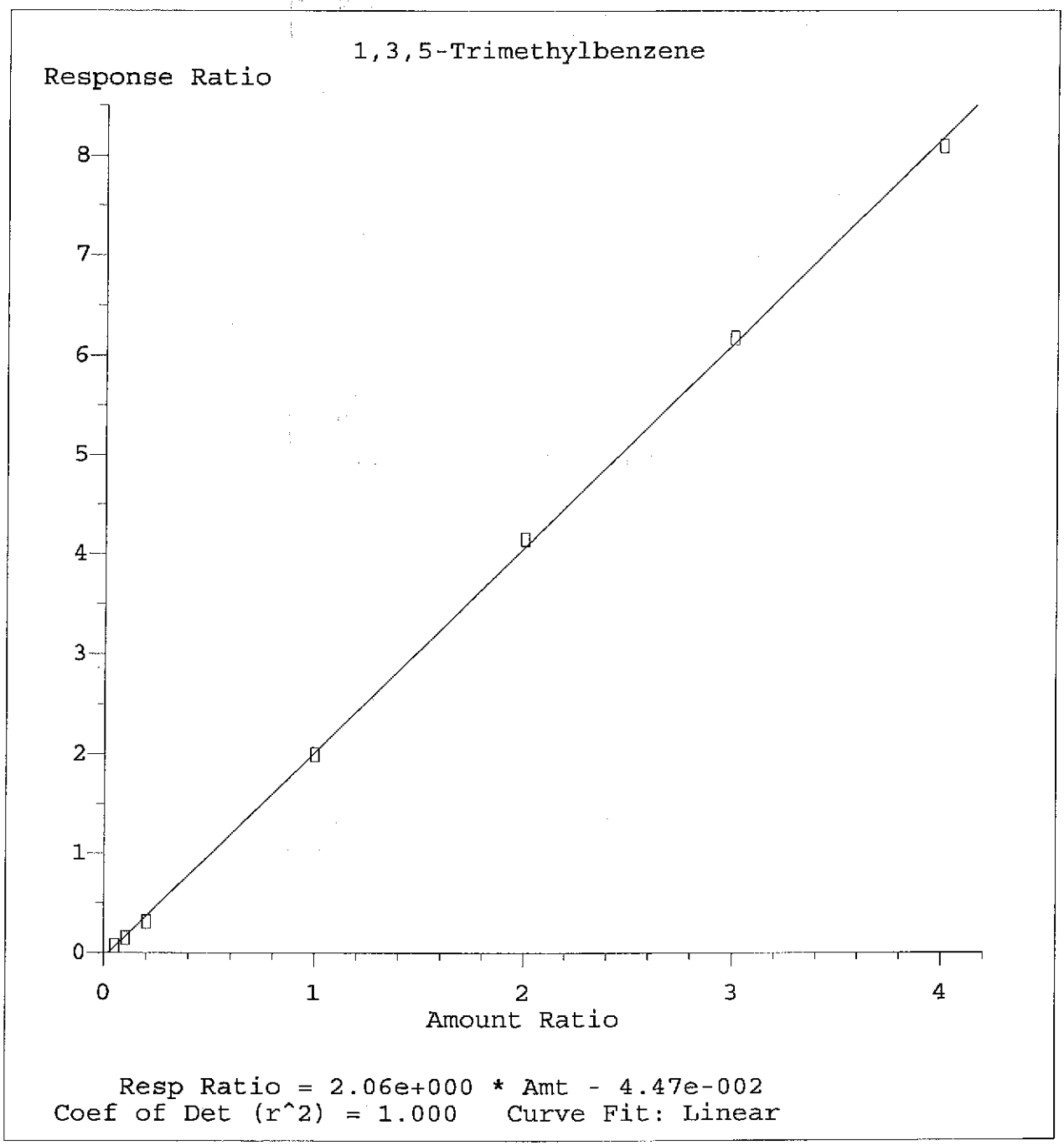
Method Name: C:\HPCHEM\1\METHODS\M407VOCW.M
Calibration Table Last Updated: Tue Apr 08 10:32:13 2008



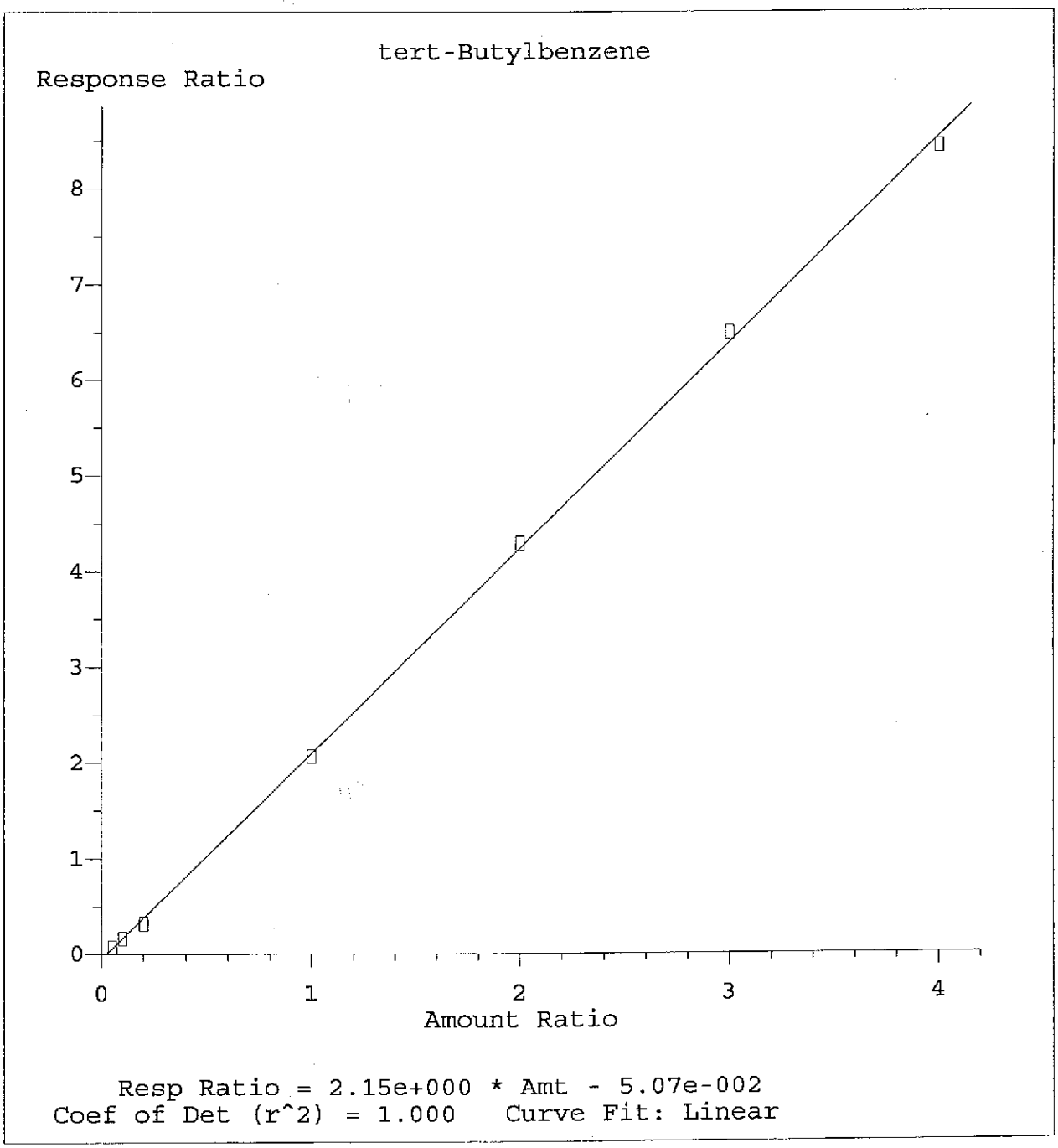
Method Name: C:\HPCHEM\1\METHODS\M407VOCW.M
Calibration Table Last Updated: Tue Apr 08 10:32:13 2008



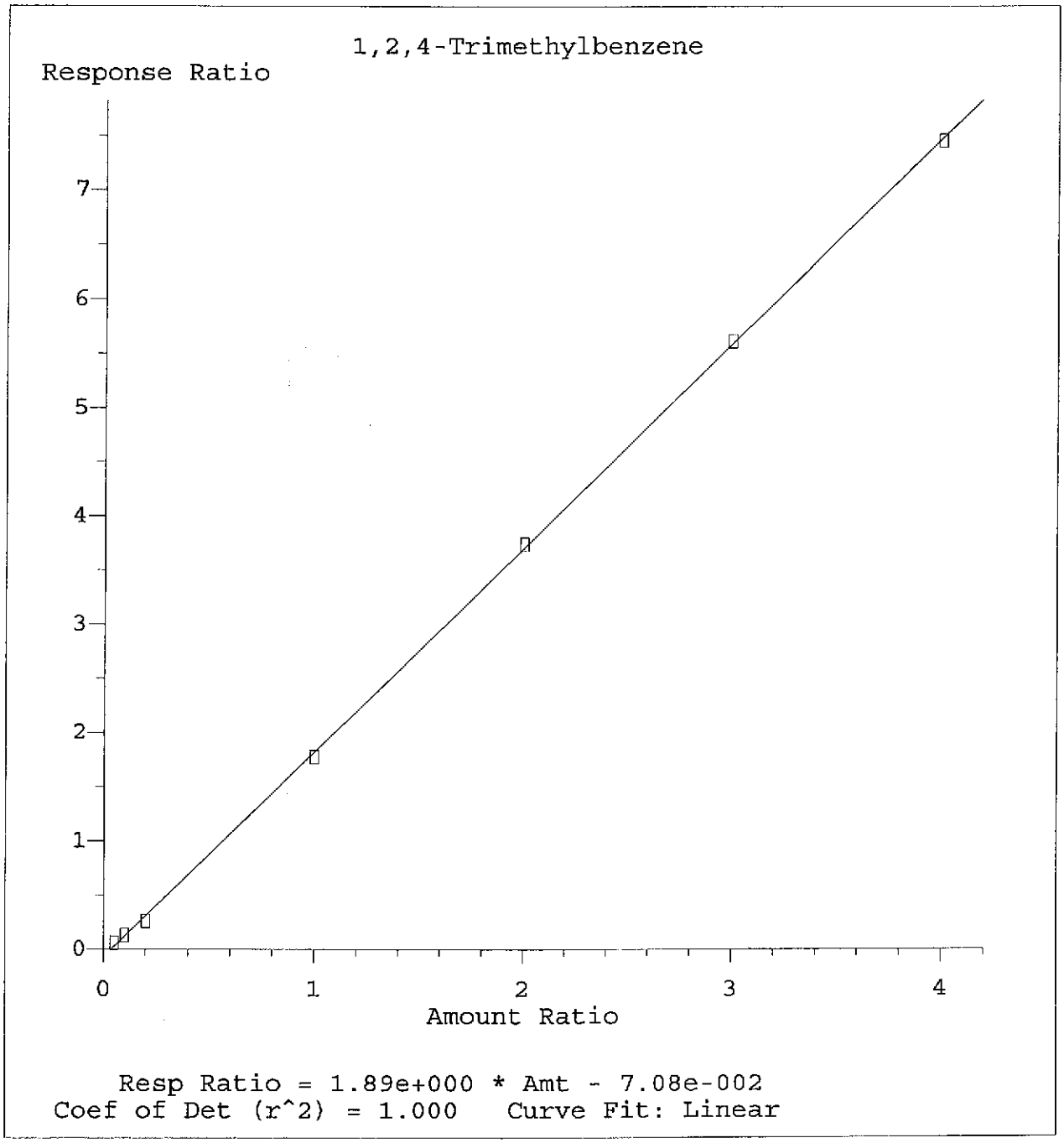
Method Name: C:\HPCHEM\1\METHODS\M407VOCW.M
Calibration Table Last Updated: Tue Apr 08 10:32:13 2008



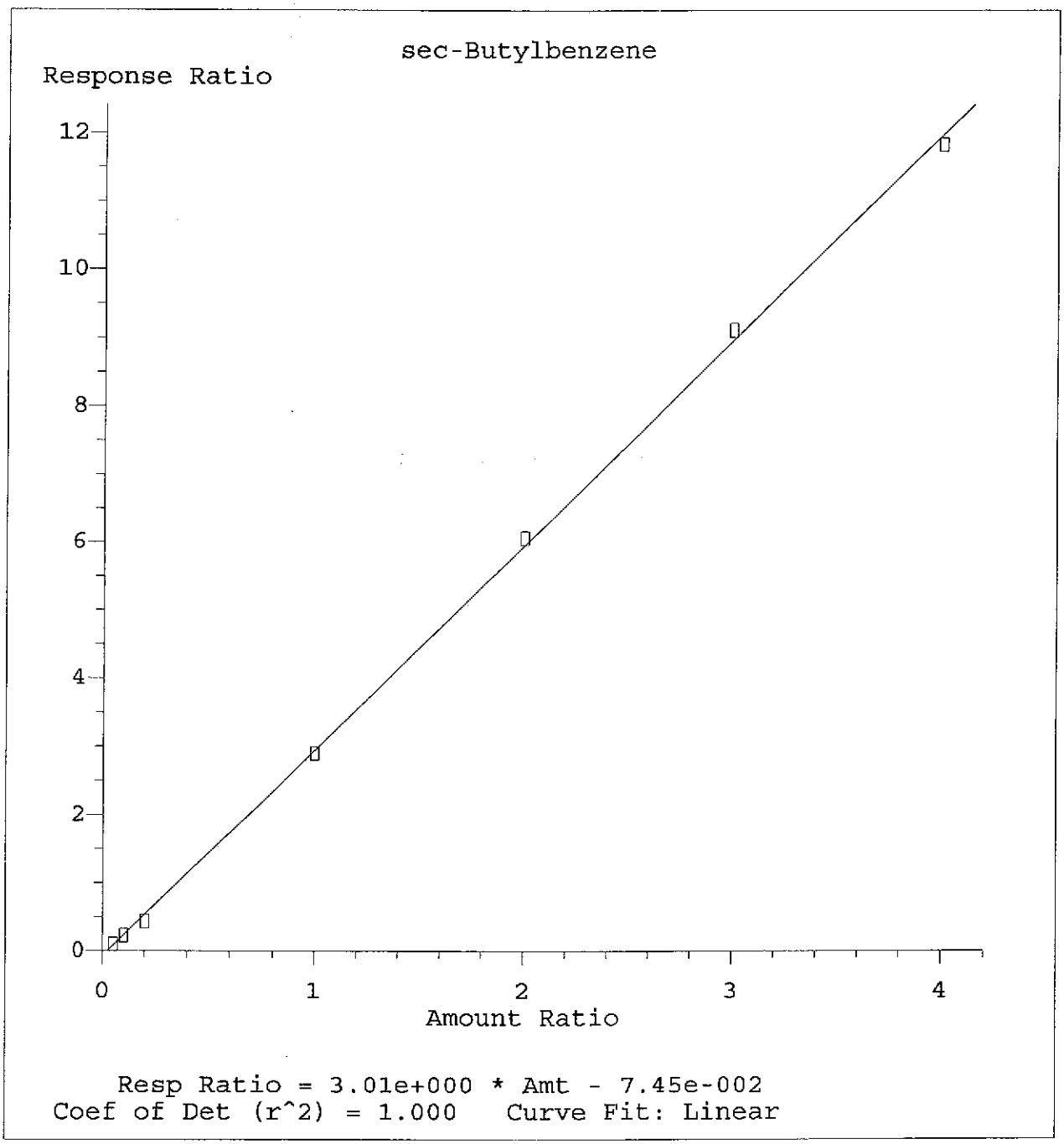
Method Name: C:\HPCHEM\1\METHODS\M407VOCW.M
Calibration Table Last Updated: Tue Apr 08 10:32:13 2008



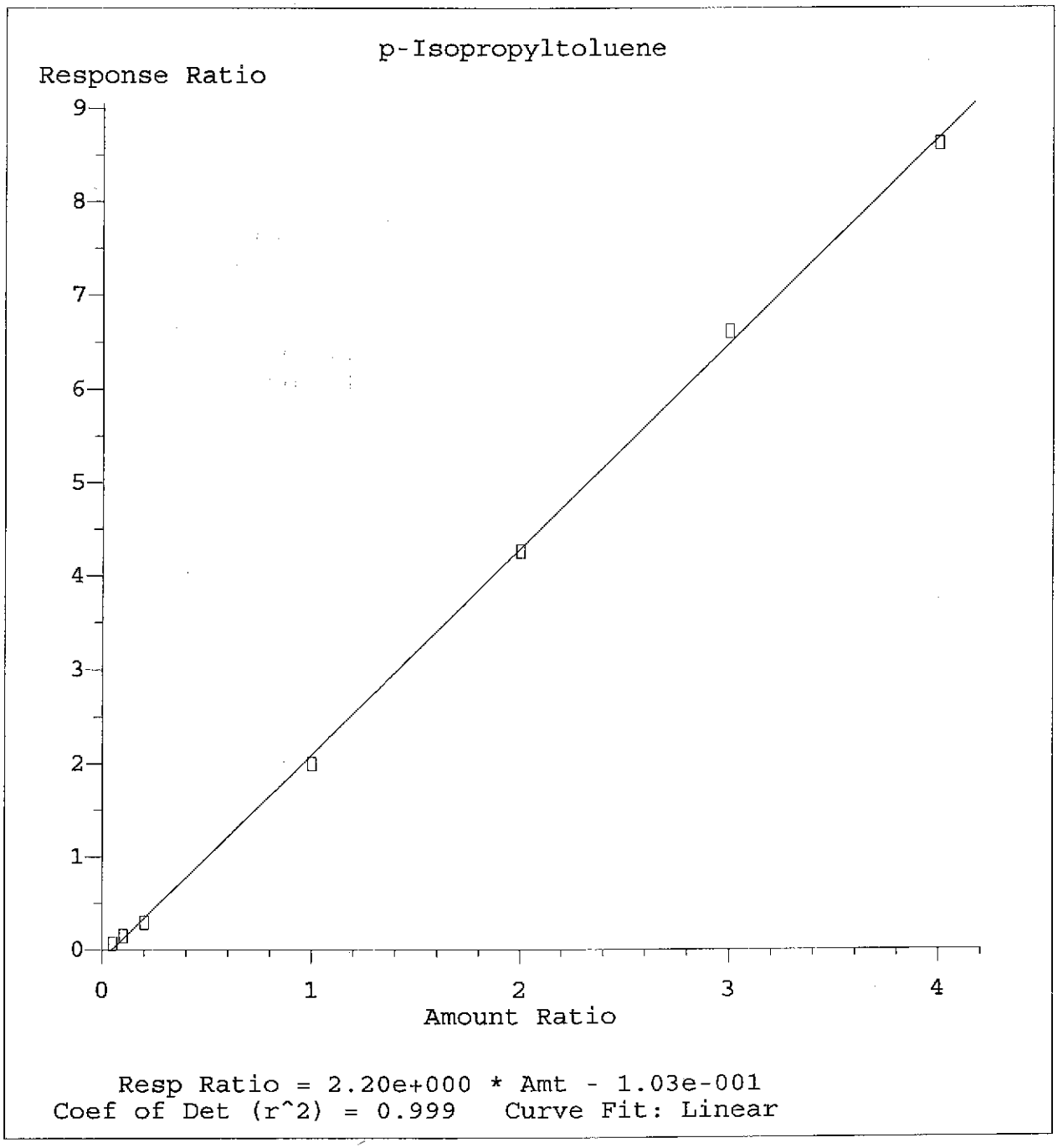
Method Name: C:\HPCHEM\1\METHODS\M407VOCW.M
Calibration Table Last Updated: Tue Apr 08 10:32:13 2008



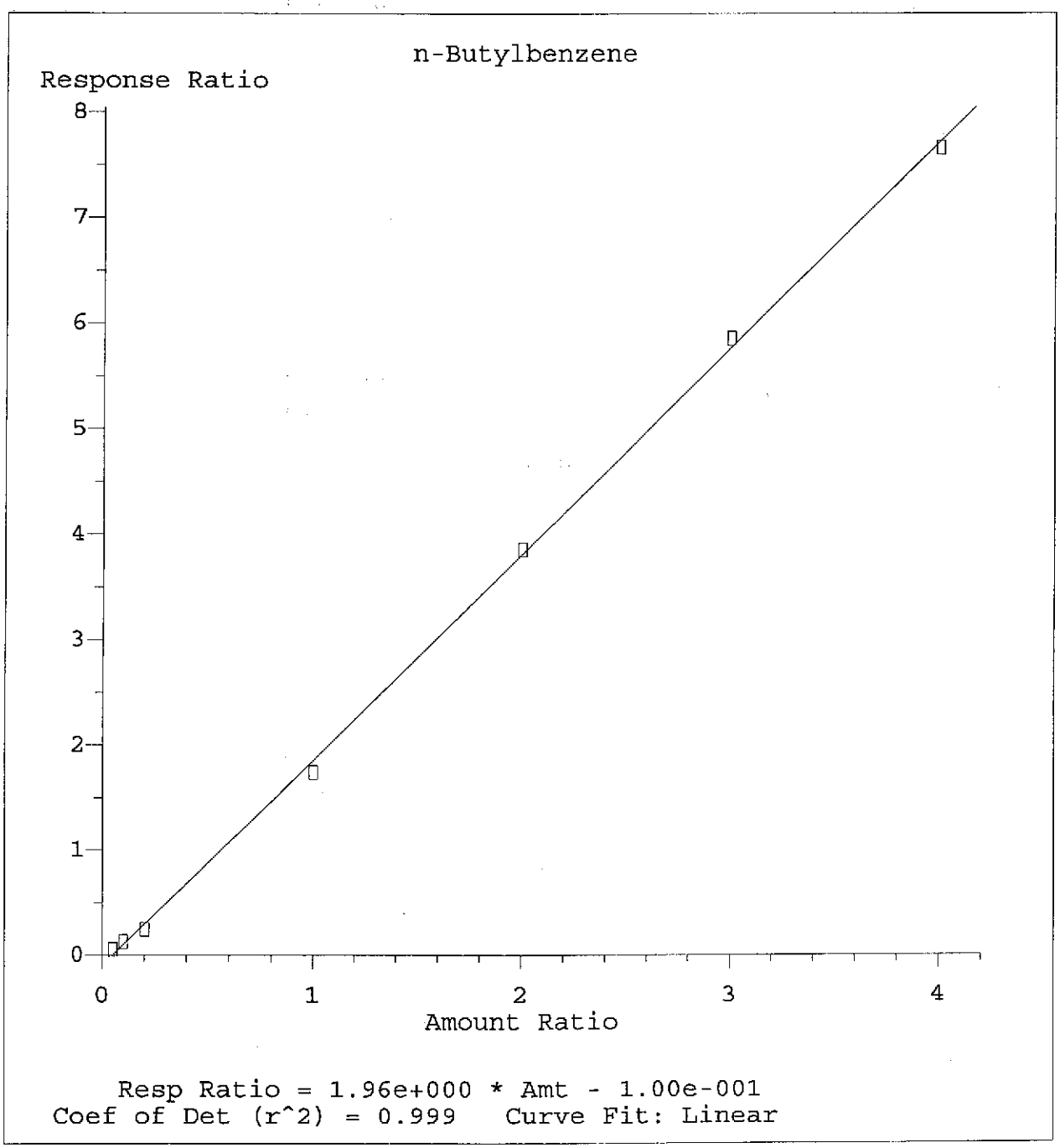
Method Name: C:\HPCHEM\1\METHODS\M407VOCW.M
Calibration Table Last Updated: Tue Apr 08 10:32:13 2008



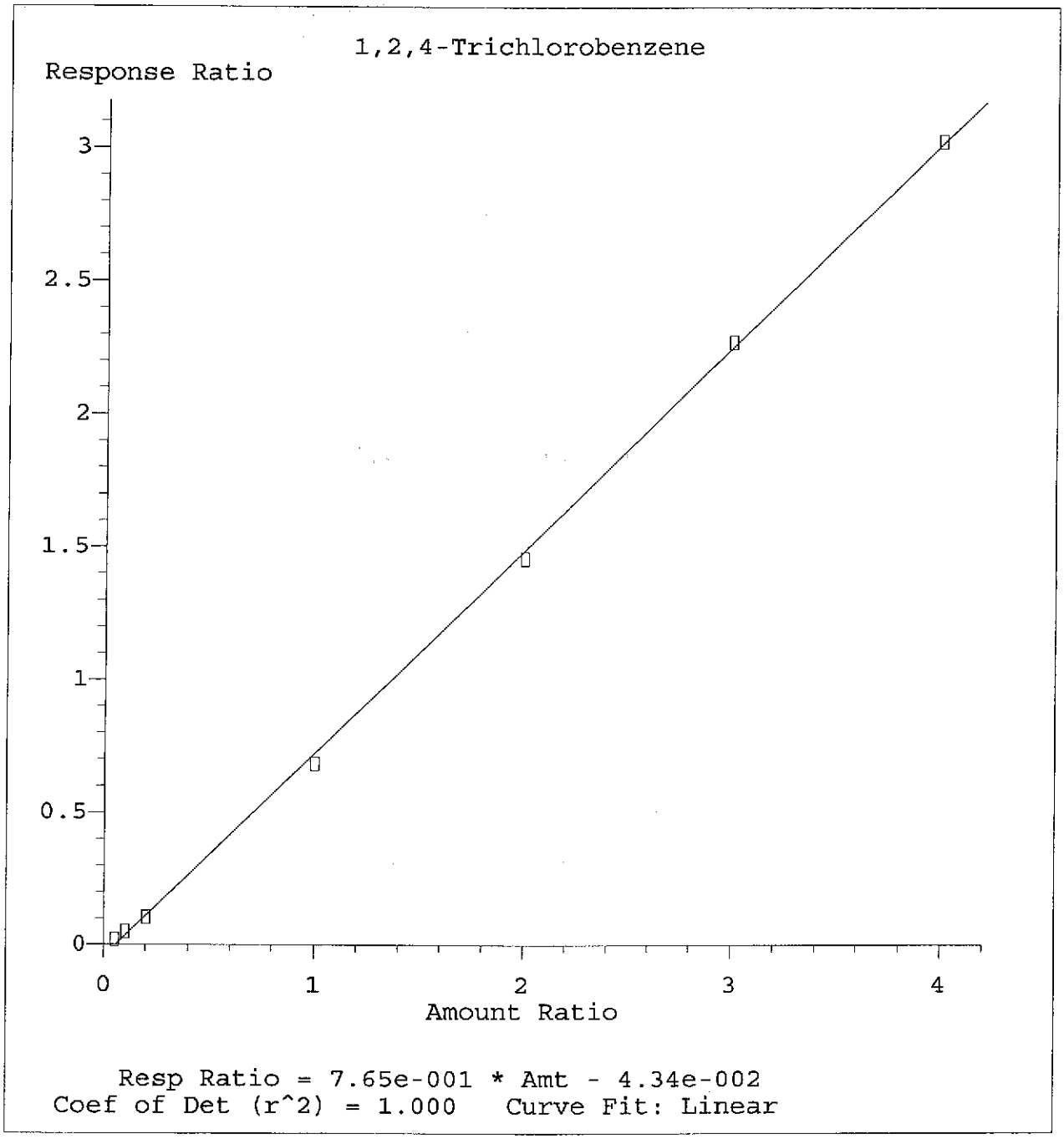
Method Name: C:\HPCHEM\1\METHODS\M407VOCW.M
Calibration Table Last Updated: Tue Apr 08 10:32:13 2008



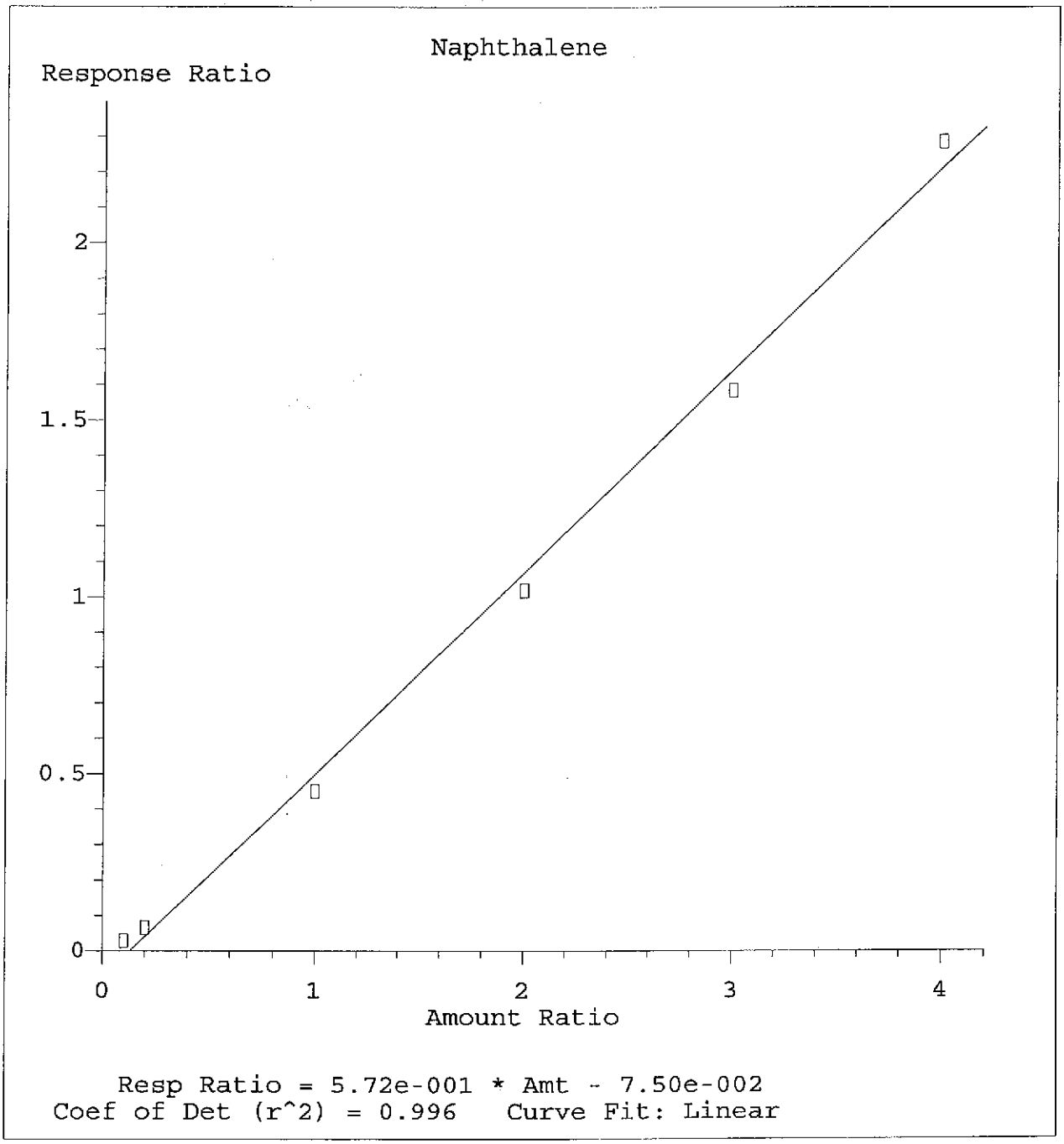
Method Name: C:\HPCHEM\1\METHODS\M407VOCW.M
Calibration Table Last Updated: Tue Apr 08 10:32:13 2008



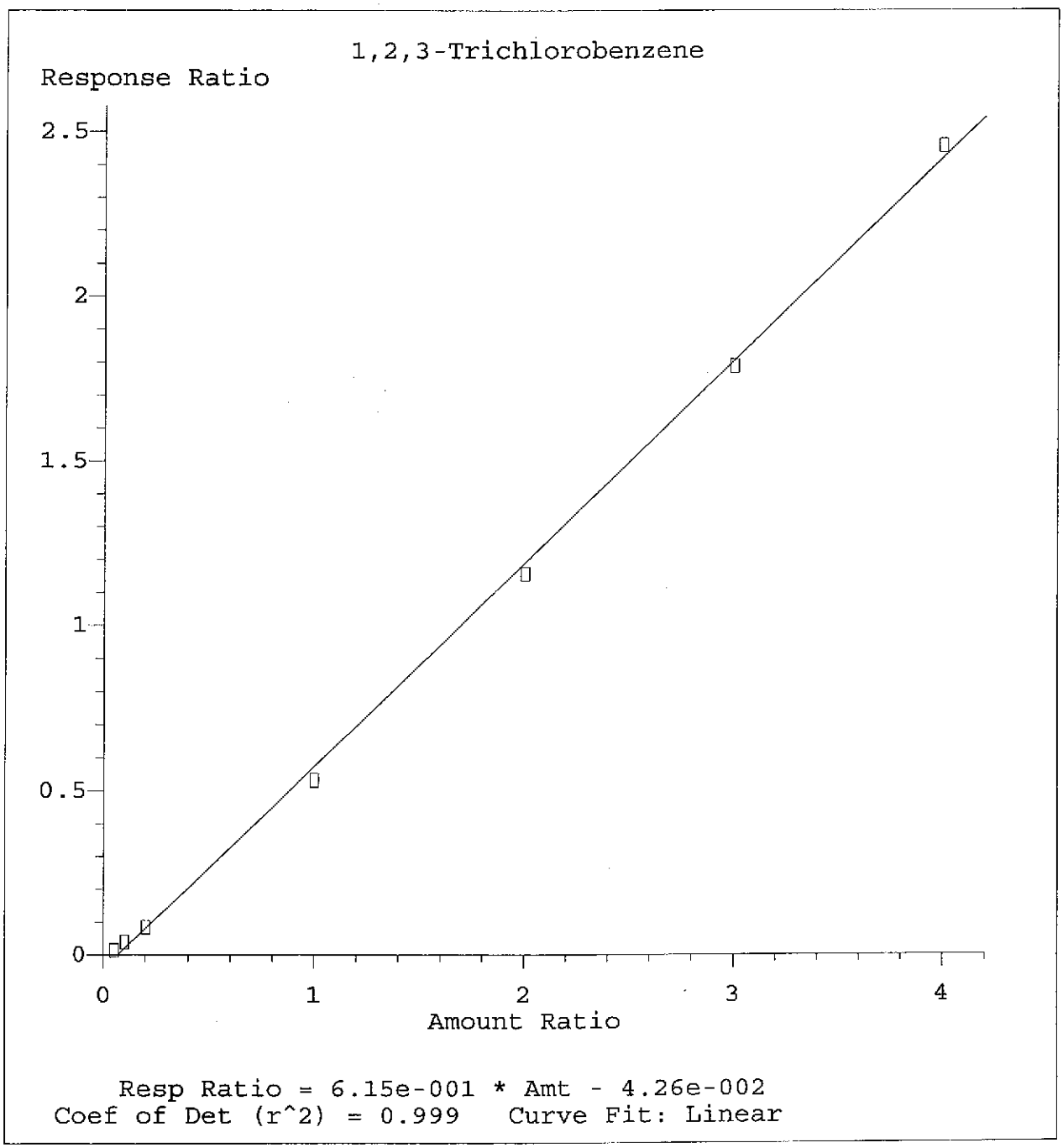
Method Name: C:\HPCHEM\1\METHODS\M407VOCW.M
Calibration Table Last Updated: Tue Apr 08 10:32:13 2008



Method Name: C:\HPCHEM\1\METHODS\M407VOCW.M
Calibration Table Last Updated: Tue Apr 08 10:32:13 2008



Method Name: C:\HPCHEM\1\METHODS\M407VOCW.M
Calibration Table Last Updated: Tue Apr 08 10:32:13 2008



Method Name: C:\HPCHEM\1\METHODS\M407VOCW.M
Calibration Table Last Updated: Tue Apr 08 10:32:13 2008

AFCEE
ORGANIC ANALYSES DATA SHEET 4
SECOND SOURCE CALIBRATION VERIFICATION

Analytical Method:	SW8260B	**AAB #:**	R13190
Lab Name:	Life Science Laboratories, In	**Contract Number:**	
Instrument ID:	MS02_12	**Initial Calibration ID:**	1221
Second Source ID:	2SRC-13190	**Concentration Units (mg/L or mg/kg):**	µg/L

Analyte	Expected	Found	%D	Q
(m+p)-Xylene	20	21.9	-9.4	
1,1,1,2-Tetrachloroethane	10	10.5	-5.2	
1,1,1-Trichloroethane	10	9.54	4.6	
1,1,2,2-Tetrachloroethane	10	10.8	-8.0	
1,1,2-Trichloroethane	10	10.1	-1.2	
1,1-Dichloroethane	10	9.97	0.3	
1,1-Dichloroethene	10	12	-20.1	
1,1-Dichloropropene	10	10.8	-7.8	
1,2,3-Trichlorobenzene	10	9.38	6.2	
1,2,3-Trichloropropane	10	11.6	-15.9	
1,2,4-Trichlorobenzene	10	10.2	-2.2	
1,2,4-Trimethylbenzene	10	10.2	-1.8	
1,2-Dibromo-3-chloropropane	10	10.8	-7.6	
1,2-Dibromoethane	10	10.4	-4.5	
1,2-Dichlorobenzene	10	11.3	-13.2	
1,2-Dichloroethane	10	9.54	4.6	
1,2-Dichloroethane-d4	10	9.76	2.4	
1,2-Dichloropropane	10	9.85	1.5	
1,3,5-Trimethylbenzene	10	10.2	-2.5	
1,3-Dichlorobenzene	10	11.4	-13.5	
1,3-Dichloropropane	10	9.97	0.3	
1,4-Dichlorobenzene	10	10.8	-7.8	
1-Chlorohexane	10	10	0	
2,2-Dichloropropane	10	10.8	-8.0	
2-Butanone	20	18.9	5.4	
2-Chlorotoluene	10	10.8	-8.1	
4-Bromofluorobenzene	10	10.7	-7.2	
4-Chlorotoluene	10	11.3	-13.0	
4-Methyl-2-pentanone	20	15.4	22.8	
Acetone	20	16.6	16.8	
Benzene	10	10.3	-3.3	
Bromobenzene	10	10.6	-5.8	
Bromochloromethane	10	9.77	2.3	
Bromodichloromethane	10	10.4	-3.5	
Bromoform	10	9.44	5.6	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 4
SECOND SOURCE CALIBRATION VERIFICATION

Analytical Method:	SW8260B	**AAB #:**	R13190
Lab Name:	Life Science Laboratories, In	**Contract Number:**	
Instrument ID:	MS02_12	**Initial Calibration ID:**	1221
Second Source ID:	2SRC-13190	**Concentration Units (mg/L or mg/kg):**	µg/L

Analyte	Expected	Found	%D	Q
Bromomethane	10	10.4	-3.5	
Carbon tetrachloride	10	9.68	3.2	
Chlorobenzene	10	10.2	-2.0	
Chloroethane	10	9.33	6.7	
Chloroform	10	9.77	2.3	
Chloromethane	10	9.39	6.1	
cis-1,2-Dichloroethene	10	10.4	-3.6	
cis-1,3-Dichloropropene	10	9.24	7.6	
Dibromochloromethane	10	10.5	-4.9	
Dibromomethane	10	10.2	-2.4	
Dichlorodifluoromethane	10	10.3	-2.7	
Ethylbenzene	10	10.4	-4.3	
Hexachlorobutadiene	10	12	-19.8	
Isopropylbenzene	10	10.9	-9.3	
Methyl tert-butyl ether	10	10.1	-1.4	
Methylene chloride	10	9.38	6.2	
n-Butylbenzene	10	10.2	-1.5	
n-Propylbenzene	10	11.4	-14.5	
Naphthalene	10	9.55	4.5	
o-Xylene	10	11.4	-13.8	
p-Isopropyltoluene	10	10.1	-1.2	
sec-Butylbenzene	10	10.4	-4.2	
Styrene	10	10.5	-4.7	
tert-Butylbenzene	10	10.5	-4.7	
Tetrachloroethene	10	10.6	-6.5	
Toluene	10	10.5	-4.9	
Toluene-d8	10	10.9	-9.4	
trans-1,2-Dichloroethene	10	10.9	-9.3	
trans-1,3-Dichloropropene	10	9.37	6.3	
Trichloroethene	10	10.2	-1.5	
Trichlorofluoromethane	10	10.3	-2.9	
Vinyl chloride	10	9.99	0.1	
Xylenes (total)	30	33.2	-10.8	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 5
CALIBRATION VERIFICATION

Analytical Method: 8260B

AAB #:

Lab Name: Life Science Laboratories, Inc.

Contract #:

Instrument ID: HP5970 GCMS#2

Initial Calibration -ID: 1221

ICV ID: ICV-13190

CCV #1 ID: CCV-13266

SEE ATTACHED

Comments:

AFCEE FORM O-5

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\M4878.D
Acq On : 10 Apr 2008 13:05
Sample : CCV-13266
Misc : CCV ,8260WAF_40CAL,
MS Integration Params: RTEINT.P

Vial: 2
Operator: GS
Inst : #2MS12
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\M407P360.M (RTE Integrator)
Title : VOC's w/Restek RTX-502.2, 0.53mm x 105m, 3.0 df
Last Update : Fri Apr 11 14:15:41 2008
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	106	0.00
2		Dichlorodifluoromethane	0.818	0.815	0.4	98	0.00
3	P	Chloromethane	0.313	0.271	13.4	91	0.00
4	CP	Vinyl chloride	0.299	0.283	5.4	99	0.00
5		Bromomethane	0.187	0.166	11.2	117	0.00
6		Chloroethane	0.161	0.156	3.1	89	0.00
7		Trichlorofluoromethane	0.712	0.702	1.4	95	0.00
8		Acetone	0.025	0.024#	4.0	96	0.00
9	CPM	1,1-Dichloroethene	0.192	0.176	8.3	92	0.00
10		Methyl iodide	0.477	0.349	26.8#	62	0.00
11		Methylene chloride	0.346	0.255	26.3#	91	0.00
12		Acrylonitrile	0.022	0.020#	9.1	96	0.00
13		Carbon disulfide	0.914	0.830	9.2	92	0.00
14		Methyl tert-Butyl ether	0.382	0.359	6.0	100	0.00
		trans-1,2-Dichloroethene	0.266	0.244	8.3	95	0.00
16		Vinyl acetate	0.239	0.238	0.4	98	0.00
17	P	1,1-Dichloroethane	0.559	0.509	8.9	92	0.00
18		2-Butanone	0.042	0.037#	11.9	97	0.00
19		2,2-Dichloropropane	0.403	0.386	4.2	92	0.00
20		cis-1,2-Dichloroethene	0.309	0.280	9.4	91	0.00
21	CP	Chloroform	0.716	0.626	12.6	90	0.00
22		Bromochloromethane	0.177	0.159	10.2	88	0.00
23		1,1,1-Trichloroethane	0.517	0.479	7.4	90	0.00
24		1,1-Dichloropropene	0.407	0.367	9.8	87	0.00
25	S	1,2-Dichloroethane-d4	0.245	0.218	11.0	85	0.00
26		Carbon tetrachloride	0.522	0.487	6.7	90	0.00
27		1,2-Dichloroethane	0.288	0.257	10.8	83	0.00
28	M	Benzene	0.812	0.714	12.1	87	0.00
29	M	Trichloroethene	0.411	0.367	10.7	89	0.00
30	CP	1,2-Dichloropropane	0.331	0.285	13.9	88	0.00
31		Bromodichloromethane	0.732	0.663	9.4	89	0.00
32		Dibromomethane	0.286	0.256	10.5	88	0.00
33		4-Methyl-2-pentanone	0.138	0.114	17.4	89	0.00
34		cis-1,3-Dichloropropene	0.421	0.380	9.7	88	0.00
35	CPM	Toluene	0.533	0.476	10.7	89	0.00
36		trans-1,3-Dichloropropene	0.276	0.253	8.3	87	0.00
37		2-Hexanone	0.085	0.075	11.8	85	0.00
38		1,1,2-Trichloroethane	0.220	0.197	10.5	88	0.00
	I	Chlorobenzene-d5	1.000	1.000	0.0	99	0.00
	S	Toluene-d8	1.490	1.354	9.1	89	0.00

(#) = Out of Range

Gisella
4/11/08

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\M4878.D Vial: 2
Acq On : 10 Apr 2008 13:05 Operator: GS
Sample : CCV-13266 Inst : #2MS12
Misc : CCV ,8260WAF 40CAL, Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\M407P360.M (RTE Integrator)
Title : VOC's w/Restek RTX-502.2, 0.53mm x 105m, 3.0 df
Last Update : Fri Apr 11 14:15:41 2008
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
41		1,3-Dichloropropane	0.652	0.609	6.6	90	0.00
42		Tetrachloroethene	0.853	0.792	7.2	89	0.00
43		Dibromochloromethane	0.976	0.934	4.3	90	0.00
44		1,2-Dibromoethane	0.644	0.601	6.7	88	0.00
45		1-Chlorohexane	0.601	0.577	4.0	90	0.00
46	PM	Chlorobenzene	1.341	1.231	8.2	85	0.00
47		1,1,1,2-Tetrachloroethane	0.710	0.676	4.8	88	0.00
48	CP	Ethylbenzene	1.865	1.738	6.8	83	0.00
49		(m+p)-Xylene	0.662	0.626	5.4	83	0.00
50		o-Xylene	0.667	0.638	4.3	92	0.00
51		Styrene	1.098	1.060	3.5	90	0.00
52	P	Bromoform	0.529	0.537	-1.5	91	0.00
53	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	101	0.00
		Isopropylbenzene	2.597	2.500	3.7	91	0.00
55	P	1,1,2,2-Tetrachloroethane	0.944	0.938	0.6	91	0.00
56	S	Bromofluorobenzene	1.714	1.604	6.4	91	0.00
57		1,2,3-Trichloropropane	0.477	0.440	7.8	93	0.00
58		trans-1,4-Dichloro-2-butene	0.055	0.056	-1.8	88	0.00
59		n-Propylbenzene	3.043	2.923	3.9	88	0.00
60		Bromobenzene	0.983	0.935	4.9	90	0.00
61		1,3,5-Trimethylbenzene	1.815	1.719	5.3	87	0.00
62		2-Chlorotoluene	2.526	2.403	4.9	90	0.00
63		4-Chlorotoluene	2.375	2.272	4.3	91	0.00
64		tert-Butylbenzene	1.894	1.843	2.7	90	0.00
65		1,2,4-Trimethylbenzene	1.601	1.564	2.3	89	0.00
66		sec-Butylbenzene	2.620	2.575	1.7	90	0.00
67		p-Isopropyltoluene	1.833	1.766	3.7	90	0.00
68		1,3-Dichlorobenzene	1.570	1.529	2.6	92	0.00
69		1,4-Dichlorobenzene	1.443	1.418	1.7	95	0.00
70		n-Butylbenzene	1.582	1.550	2.0	90	0.00
71		1,2-Dichlorobenzene	1.369	1.350	1.4	93	0.00
72		1,2-Dibromo-3-chloropropane	0.151	0.158	-4.6	99	0.00
73		1,2,4-Trichlorobenzene	0.624	0.634	-1.6	94	0.00
74		Hexachlorobutadiene	0.621	0.618	0.5	93	0.00
75		Naphthalene	0.448	0.438	2.2	98	0.00
76		1,2,3-Trichlorobenzene	0.489	0.501	-2.5	95	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\M4878.D
Acq On : 10 Apr 2008 13:05
Sample : CCV-13266
Misc : CCV ,8260WAF_40CAL,
MS Integration Params: RTEINT.P

Vial: 2
Operator: GS
Inst : #2MS12
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\M407P360.M (RTE Integrator)
Title : VOC's w/Restek RTX-502.2, 0.53mm x 105m, 3.0 df
Last Update : Fri Apr 11 14:15:41 2008
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	10.000	10.000	0.0	106	0.00
2		Dichlorodifluoromethane	10.000	9.965	0.4	98	0.00
3	P	Chloromethane	10.000	8.650	13.5	91	0.00
4	CP	Vinyl chloride	10.000	9.477	5.2	99	0.00
5		Bromomethane	10.000	8.578	14.2	117	0.00
6		Chloroethane	10.000	8.849	11.5	89	0.00
7		Trichlorofluoromethane	10.000	9.853	1.5	95	0.00
8		Acetone	20.000	18.962	5.2	96	0.00
9	CPM	1,1-Dichloroethene	10.000	9.169	8.3	92	0.00
10		Methyl iodide	10.000	6.026	39.7#	62	0.00
11		Methylene chloride	10.000	8.310	16.9	91	0.00
12		Acrylonitrile	50.000	43.141	13.7	96	0.00
13		Carbon disulfide	10.000	9.077	9.2	92	0.00
14		Methyl tert-Butyl ether	10.000	9.408	5.9	100	0.00
		trans-1,2-Dichloroethene	10.000	9.196	8.0	95	0.00
16		Vinyl acetate	10.000	9.988	0.1	98	0.00
17	P	1,1-Dichloroethane	10.000	9.116	8.8	92	0.00
18		2-Butanone	20.000	17.854	10.7	97	0.00
19		2,2-Dichloropropane	10.000	9.592	4.1	92	0.00
20		cis-1,2-Dichloroethene	10.000	9.074	9.3	91	0.00
21	CP	Chloroform	10.000	8.747	12.5	90	0.00
22		Bromochloromethane	10.000	8.944	10.6	88	0.00
23		1,1,1-Trichloroethane	10.000	8.385	16.2	90	0.00
24		1,1-Dichloropropene	10.000	9.023	9.8	87	0.00
25	S	1,2-Dichloroethane-d4	10.000	8.895	11.1	85	0.00
26		Carbon tetrachloride	10.000	8.482	15.2	90	0.00
27		1,2-Dichloroethane	10.000	8.926	10.7	83	0.00
28	M	Benzene	10.000	8.789	12.1	87	0.00
29	M	Trichloroethene	10.000	8.927	10.7	89	0.00
30	CP	1,2-Dichloropropane	10.000	8.617	13.8	88	0.00
31		Bromodichloromethane	10.000	9.060	9.4	89	0.00
32		Dibromomethane	10.000	8.935	10.7	88	0.00
33		4-Methyl-2-pentanone	20.000	16.555	17.2	89	0.00
34		cis-1,3-Dichloropropene	10.000	8.130	18.7	88	0.00
35	CPM	Toluene	10.000	8.926	10.7	89	0.00
36		trans-1,3-Dichloropropene	10.000	8.038	19.6	87	0.00
37		2-Hexanone	20.000	16.620	16.9	85	0.00
38		1,1,2-Trichloroethane	10.000	8.976	10.2	88	0.00
	I	Chlorobenzene-d5	10.000	10.000	0.0	99	0.00
	S	Toluene-d8	10.000	9.087	9.1	89	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\M4878.D
Acq On : 10 Apr 2008 13:05
Sample : CCV-13266
Misc : CCV ,8260WAF 40CAL,
MS Integration Params: RTEINT.P

Vial: 2
Operator: GS
Inst : #2MS12
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\M407P360.M (RTE Integrator)
Title : VOC's w/Restek RTX-502.2, 0.53mm x 105m, 3.0 df
Last Update : Fri Apr 11 14:15:41 2008
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
41		1,3-Dichloropropane	10.000	9.334	6.7	90	0.00
42		Tetrachloroethene	10.000	9.284	7.2	89	0.00
43		Dibromochloromethane	10.000	9.569	4.3	90	0.00
44		1,2-Dibromoethane	10.000	9.327	6.7	88	0.00
45		1-Chlorohexane	10.000	8.570	14.3	90	0.00
46	PM	Chlorobenzene	10.000	9.176	8.2	85	0.00
47		1,1,1,2-Tetrachloroethane	10.000	9.512	4.9	88	0.00
48	CP	Ethylbenzene	10.000	9.321	6.8	83	0.00
49		(m+p)-Xylene	20.000	18.917	5.4	83	0.00
50		o-Xylene	10.000	9.560	4.4	92	0.00
51		Styrene	10.000	9.654	3.5	90	0.00
52	P	Bromoform	10.000	8.969	10.3	91	0.00
53	I	1,4-Dichlorobenzene-d4	10.000	10.000	0.0	101	0.00
		Isopropylbenzene	10.000	9.629	3.7	91	0.00
55	P	1,1,2,2-Tetrachloroethane	10.000	9.940	0.6	91	0.00
56	S	Bromofluorobenzene	10.000	9.362	6.4	91	0.00
57		1,2,3-Trichloropropane	10.000	9.234	7.7	93	0.00
58		trans-1,4-Dichloro-2-butene	10.000	8.903	11.0	88	0.00
59		n-Propylbenzene	10.000	9.606	3.9	88	0.00
60		Bromobenzene	10.000	9.507	4.9	90	0.00
61		1,3,5-Trimethylbenzene	10.000	8.582	14.2	87	0.00
62		2-Chlorotoluene	10.000	9.514	4.9	90	0.00
63		4-Chlorotoluene	10.000	9.564	4.4	91	0.00
64		tert-Butylbenzene	10.000	8.820	11.8	90	0.00
65		1,2,4-Trimethylbenzene	10.000	8.662	13.4	89	0.00
66		sec-Butylbenzene	10.000	8.792	12.1	90	0.00
67		p-Isopropyltoluene	10.000	8.513	14.9	90	0.00
68		1,3-Dichlorobenzene	10.000	9.736	2.6	92	0.00
69		1,4-Dichlorobenzene	10.000	9.825	1.8	95	0.00
70		n-Butylbenzene	10.000	8.441	15.6	90	0.00
71		1,2-Dichlorobenzene	10.000	9.857	1.4	93	0.00
72		1,2-Dibromo-3-chloropropane	10.000	10.427	-4.3	99	0.00
73		1,2,4-Trichlorobenzene	10.000	8.858	11.4	94	0.00
74		Hexachlorobutadiene	10.000	9.965	0.4	93	0.00
75		Naphthalene	10.000	8.977	10.2	98	0.00
76		1,2,3-Trichlorobenzene	10.000	8.835	11.6	95	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

AFCEE
ORGANIC ANALYSES DATA SHEET 7
BLANKS

Analytical Method:	SW8260B	**AAB #:**	R13266
Lab Name:	Life Science Laboratories, Inc.	**Contract Number:**	
Units:	µg/L	**Method Blank ID:**	MB-13266
Initial Calibration ID:	1221	**File ID:**	M4882.D

Analyte	Method Blank	RL	Q
(m+p)-Xylene	0.100	2.00	U
1,1,1,2-Tetrachloroethane	0.250	0.500	U
1,1,1-Trichloroethane	0.160	1.00	U
1,1,2,2-Tetrachloroethane	0.160	0.500	U
1,1,2-Trichloroethane	0.250	1.00	U
1,1-Dichloroethane	0.160	1.00	U
1,1-Dichloroethene	0.250	1.00	U
1,1-Dichloropropene	0.250	1.00	U
1,2,3-Trichlorobenzene	0.500	1.00	U
1,2,3-Trichloropropane	1.00	2.00	U
1,2,4-Trichlorobenzene	0.500	1.00	U
1,2,4-Trimethylbenzene	0.160	1.00	U
1,2-Dibromo-3-chloropropane	2.50	5.00	U
1,2-Dibromoethane	0.250	1.00	U
1,2-Dichlorobenzene	0.160	1.00	U
1,2-Dichloroethane	0.250	0.500	U
1,2-Dichloropropane	0.160	1.00	U
1,3,5-Trimethylbenzene	0.160	1.00	U
1,3-Dichlorobenzene	0.160	1.00	U
1,3-Dichloropropane	0.160	0.500	U
1,4-Dichlorobenzene	0.160	0.500	U
1-Chlorohexane	0.250	1.00	U
2,2-Dichloropropane	0.500	1.00	U
2-Butanone	2.50	10.0	U
2-Chlorotoluene	0.100	1.00	U
4-Chlorotoluene	0.100	1.00	U
4-Methyl-2-pentanone	1.00	10.0	U
Acetone	2.50	10.0	U
Benzene	0.160	0.500	U
Bromobenzene	0.160	1.00	U
Bromochloromethane	0.160	1.00	U
Bromodichloromethane	0.160	0.500	U
Bromoform	0.500	1.00	U
Bromomethane	0.190	3.00	U
Carbon tetrachloride	0.250	1.00	U

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 7
BLANKS

Analytical Method:	SW8260B	**AAB #:**	R13266
Lab Name:	Life Science Laboratories, Inc.	**Contract Number:**	
Units:	µg/L	**Method Blank ID:**	MB-13266
Initial Calibration ID:	1221	**File ID:**	M4882.D

Analyte	Method Blank	RL	Q
Chlorobenzene	0.160	0.500	U
Chloroethane	0.500	1.00	U
Chloroform	0.100	0.500	U
Chloromethane	0.500	1.00	U
cis-1,2-Dichloroethene	0.160	1.00	U
cis-1,3-Dichloropropene	0.250	0.500	U
Dibromochloromethane	0.160	0.500	U
Dibromomethane	0.160	1.00	U
Dichlorodifluoromethane	0.250	1.00	U
Ethylbenzene	0.100	1.00	U
Hexachlorobutadiene	0.500	1.00	U
Isopropylbenzene	0.160	1.00	U
Methyl tert-butyl ether	0.500	5.00	U
Methylene chloride	0.160	1.00	U
n-Butylbenzene	0.160	1.00	U
n-Propylbenzene	0.100	1.00	U
Naphthalene	0.500	1.00	U
o-Xylene	0.160	1.00	U
p-Isopropyltoluene	0.160	1.00	U
sec-Butylbenzene	0.160	1.00	U
Styrene	0.160	1.00	U
tert-Butylbenzene	0.160	1.00	U
Tetrachloroethene	0.100	1.00	U
Toluene	0.100	1.00	U
trans-1,2-Dichloroethene	0.160	1.00	U
trans-1,3-Dichloropropene	0.250	1.00	U
Trichloroethene	0.100	1.00	U
Trichlorofluoromethane	0.100	1.00	U
Vinyl chloride	0.500	1.00	U
Xylenes (total)	0.260	2.00	U

Surrogate	Recovery	Control Limits	Qualifier
1,2-Dichloroethane-d4	113	72 - 119	
4-Bromofluorobenzene	115	76 - 119	
Toluene-d8	106	81 - 120	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 7
BLANKS

Analytical Method:	SW8260B	**AAB #:**	R13266
Lab Name:	Life Science Laboratories, Inc.	**Contract Number:**	
Units:	µg/L	**Method Blank ID:**	MB-13266
Initial Calibration ID:	1221	**File ID:**	M4882.D

Internal Std	Area Counts	Area Count Limits	Qualifier
1,4-Dichlorobenzene-d4	1477374	811362 - 3245448	
Chlorobenzene-d5	2271803	1119858 - 4479430	
Fluorobenzene	4066265	1972798 - 7891190	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 8
LABORATORY CONTROL SAMPLE

Analytical Method: SW8260B **AAB #:** R13266

Lab Name: Life Science Laboratories, Inc. **Contract #:**

LCS ID: LCS-13266 **Initial Calibration ID:** 1221

Concentration Units (mg/L or mg/kg): µg/L **File ID:** M4879.D

Analyte	Expected	Found	%R	Control Limits	Q
(m+p)-Xylene	20	20.5	103	76 - 128	
1,1,1,2-Tetrachloroethane	10	9.83	98	81 - 129	
1,1,1-Trichloroethane	10	9.09	91	67 - 132	
1,1,2,2-Tetrachloroethane	10	10.1	101	63 - 128	
1,1,2-Trichloroethane	10	9.26	93	75 - 125	
1,1-Dichloroethane	10	9.67	97	69 - 133	
1,1-Dichloroethene	10	11.7	117	68 - 130	
1,1-Dichloropropene	10	9.94	99	73 - 132	
1,2,3-Trichlorobenzene	10	8.74	87	67 - 137	
1,2,3-Trichloropropane	10	11.4	114	73 - 124	
1,2,4-Trichlorobenzene	10	9.70	97	66 - 134	
1,2,4-Trimethylbenzene	10	9.04	90	74 - 132	
1,2-Dibromo-3-chloropropane	10	9.95	100	50 - 132	
1,2-Dibromoethane	10	9.44	94	80 - 121	
1,2-Dichlorobenzene	10	10.5	105	71 - 122	
1,2-Dichloroethane	10	9.15	92	69 - 132	
1,2-Dichloropropane	10	9.19	92	75 - 125	
1,3,5-Trimethylbenzene	10	9.15	92	74 - 131	
1,3-Dichlorobenzene	10	10.4	104	75 - 124	
1,3-Dichloropropane	10	9.11	91	73 - 126	
1,4-Dichlorobenzene	10	9.99	100	74 - 123	
1-Chlorohexane	10	8.93	89	70 - 125	
2,2-Dichloropropane	10	10.1	101	69 - 137	
2-Butanone	20	19.1	96	49 - 136	
2-Chlorotoluene	10	9.63	96	73 - 126	
4-Chlorotoluene	10	10.6	106	74 - 128	
4-Methyl-2-pentanone	20	16.7	84	58 - 134	
Acetone	20	17.1	86	40 - 135	
Benzene	10	9.52	95	81 - 122	
Bromobenzene	10	9.94	99	76 - 124	
Bromochloromethane	10	9.25	92	65 - 129	
Bromodichloromethane	10	9.94	99	76 - 121	
Bromoform	10	8.72	87	69 - 128	
Bromomethane	10	10.0	100	30 - 141	
Carbon tetrachloride	10	9.05	90	66 - 138	
Chlorobenzene	10	9.49	95	81 - 122	
Chloroethane	10	10.0	100	58 - 133	
Chloroform	10	9.48	95	69 - 128	
Chloromethane	10	9.55	96	56 - 131	
cis-1,2-Dichloroethene	10	10.1	101	72 - 126	
cis-1,3-Dichloropropene	10	8.47	85	69 - 131	
Dibromochloromethane	10	9.68	97	66 - 133	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 8
LABORATORY CONTROL SAMPLE

Analytical Method: SW8260B **AAB #:** R13266

Lab Name: Life Science Laboratories, Inc. **Contract #:**

LCS ID: LCS-13266 **Initial Calibration ID:** 1221

Concentration Units (mg/L or mg/kg): µg/L **File ID:** M4879.D

Analyte	Expected	Found	%R	Control Limits	Q
Dibromomethane	10	9.80	98	76 - 125	
Dichlorodifluoromethane	10	10.7	107	30 - 153	
Ethylbenzene	10	9.87	99	73 - 127	
Hexachlorobutadiene	10	10.9	109	67 - 131	
Isopropylbenzene	10	9.95	100	75 - 127	
Methyl tert-butyl ether	10	9.40	94	65 - 123	
Methylene chloride	10	8.74	87	63 - 137	
n-Butylbenzene	10	9.12	91	69 - 137	
n-Propylbenzene	10	10.3	103	72 - 129	
Naphthalene	10	9.52	95	54 - 138	
o-Xylene	10	10.5	105	80 - 121	
p-Isopropyltoluene	10	9.03	90	73 - 130	
sec-Butylbenzene	10	9.45	94	72 - 127	
Styrene	10	9.56	96	65 - 134	
tert-Butylbenzene	10	9.54	95	70 - 129	
Tetrachloroethene	10	9.61	96	66 - 128	
Toluene	10	9.53	95	77 - 122	
trans-1,2-Dichloroethene	10	10.2	102	63 - 137	
trans-1,3-Dichloropropene	10	8.36	84	59 - 135	
Trichloroethene	10	9.60	96	70 - 127	
Trichlorofluoromethane	10	10.6	106	57 - 129	
Vinyl chloride	10	10.4	104	50 - 134	
Xylenes (total)	30	31.0	104	80 - 121	

Surrogate	Recovery	Control Limits	Qualifier
1,2-Dichloroethane-d4	102	72 - 119	
4-Bromofluorobenzene	108	76 - 119	
Toluene-d8	107	81 - 120	

Internal Std	Area Counts	Area Count Limits	Qualifier
1,4-Dichlorobenzene-d4	1546693	811362 - 3245448	
Chlorobenzene-d5	2128402	1119858 - 4479430	
Fluorobenzene	3908570	1972798 - 7891190	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 8
LABORATORY CONTROL SAMPLE

Analytical Method: SW8260B **AAB #:** R13266

Lab Name: Life Science Laboratories, Inc. **Contract #:**

LCS ID: LCSD-13266 **Initial Calibration ID:** 1221

Concentration Units (mg/L or mg/kg): µg/L **File ID:** M4880.D

Analyte	Expected	Found	%R	Control Limits	Q
(m+p)-Xylene	20	21.6	108	76 - 128	
1,1,1,2-Tetrachloroethane	10	10.4	104	81 - 129	
1,1,1-Trichloroethane	10	9.47	95	67 - 132	
1,1,2,2-Tetrachloroethane	10	10.7	107	63 - 128	
1,1,2-Trichloroethane	10	10.0	100	75 - 125	
1,1-Dichloroethane	10	10.0	100	69 - 133	
1,1-Dichloroethene	10	11.9	119	68 - 130	
1,1-Dichloropropene	10	10.5	105	73 - 132	
1,2,3-Trichlorobenzene	10	9.34	93	67 - 137	
1,2,3-Trichloropropane	10	11.7	117	73 - 124	
1,2,4-Trichlorobenzene	10	10.2	102	66 - 134	
1,2,4-Trimethylbenzene	10	9.96	100	74 - 132	
1,2-Dibromo-3-chloropropane	10	10.6	106	50 - 132	
1,2-Dibromoethane	10	10.3	103	80 - 121	
1,2-Dichlorobenzene	10	11.3	113	71 - 122	
1,2-Dichloroethane	10	9.88	99	69 - 132	
1,2-Dichloropropane	10	10.1	101	75 - 125	
1,3,5-Trimethylbenzene	10	10.0	100	74 - 131	
1,3-Dichlorobenzene	10	11.1	111	75 - 124	
1,3-Dichloropropane	10	9.85	98	73 - 126	
1,4-Dichlorobenzene	10	10.9	109	74 - 123	
1-Chlorohexane	10	9.36	94	70 - 125	
2,2-Dichloropropane	10	10.5	105	69 - 137	
2-Butanone	20	20.1	101	49 - 136	
2-Chlorotoluene	10	10.3	103	73 - 126	
4-Chlorotoluene	10	12.0	120	74 - 128	
4-Methyl-2-pentanone	20	16.5	83	58 - 134	
Acetone	20	17.4	87	40 - 135	
Benzene	10	10.1	101	81 - 122	
Bromobenzene	10	10.7	107	76 - 124	
Bromochloromethane	10	10.1	101	65 - 129	
Bromodichloromethane	10	10.5	105	76 - 121	
Bromoform	10	9.43	94	69 - 128	
Bromomethane	10	9.57	96	30 - 141	
Carbon tetrachloride	10	9.81	98	66 - 138	
Chlorobenzene	10	9.98	100	81 - 122	
Chloroethane	10	9.69	97	58 - 133	
Chloroform	10	9.95	100	69 - 128	
Chloromethane	10	10.0	100	56 - 131	
cis-1,2-Dichloroethene	10	10.4	104	72 - 126	
cis-1,3-Dichloropropene	10	9.09	91	69 - 131	
Dibromochloromethane	10	10.3	103	66 - 133	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 8
LABORATORY CONTROL SAMPLE

Analytical Method: SW8260B **AAB #:** R13266

Lab Name: Life Science Laboratories, Inc. **Contract #:**

LCS ID: LCSD-13266 **Initial Calibration ID:** 1221

Concentration Units (mg/L or mg/kg): ug/L **File ID:** M4880.D

Analyte	Expected	Found	%R	Control Limits	Q
Dibromomethane	10	10.4	104	76 - 125	
Dichlorodifluoromethane	10	11.1	111	30 - 153	
Ethylbenzene	10	10.2	102	73 - 127	
Hexachlorobutadiene	10	11.4	114	67 - 131	
Isopropylbenzene	10	10.6	106	75 - 127	
Methyl tert-butyl ether	10	10.0	100	65 - 123	
Methylene chloride	10	9.04	90	63 - 137	
n-Butylbenzene	10	10.1	101	69 - 137	
n-Propylbenzene	10	11.2	112	72 - 129	
Naphthalene	10	10.4	104	54 - 138	
o-Xylene	10	11.1	111	80 - 121	
p-Isopropyltoluene	10	9.75	98	73 - 130	
sec-Butylbenzene	10	10.2	102	72 - 127	
Styrene	10	10.3	103	65 - 134	
tert-Butylbenzene	10	10.3	103	70 - 129	
Tetrachloroethene	10	10.3	103	66 - 128	
Toluene	10	10.3	103	77 - 122	
trans-1,2-Dichloroethene	10	10.6	106	63 - 137	
trans-1,3-Dichloropropene	10	9.12	91	59 - 135	
Trichloroethene	10	10.3	103	70 - 127	
Trichlorofluoromethane	10	11.2	112	57 - 129	
Vinyl chloride	10	10.5	105	50 - 134	
Xylenes (total)	30	32.7	109	80 - 121	

Surrogate	Recovery	Control Limits	Qualifier
1,2-Dichloroethane-d4	102	72 - 119	
4-Bromofluorobenzene	106	76 - 119	
Toluene-d8	107	81 - 120	

Internal Std	Area Counts	Area Count Limits	Qualifier
1,4-Dichlorobenzene-d4	1565441	811362 - 3245448	
Chlorobenzene-d5	2157996	1119858 - 4479430	
Fluorobenzene	3959588	1972798 - 7891190	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 9
MATRIX SPIKE/MATRIX SPIKE DUPLICATE SAMPLE RECOVERY

Analytical Method: SW8260B **AAB #:** R13266

Lab Name: Life Science Laboratories, Inc. **Contract #:**

Concentration Units (mg/L or mg/kg): µg/L **% Solids:** 0

Parent Field Sample ID: LCSD-13266 **MS ID:** LCS-13266 **MSD ID:** LCSD-13266

Calibration ID: 1221

Analyte	Parent Sample Result	Spike Added	Spiked Sample Result	%R	Duplicate Spiked Sample Result	%R	%RPD	Control Limits %R	Control Limits %RPD	Q
(m+p)-Xylene		20.0	20.5	103	21.6	108	5	76 - 128	20	
1,1,1,2-Tetrachloroethane		10.0	9.83	98	10.4	104	5	81 - 129	20	
1,1,1-Trichloroethane		10.0	9.09	91	9.47	95	4	67 - 132	20	
1,1,2,2-Tetrachloroethane		10.0	10.1	101	10.7	107	6	63 - 128	20	
1,1,2-Trichloroethane		10.0	9.26	93	10.0	100	8	75 - 125	20	
1,1-Dichloroethane		10.0	9.67	97	10.0	100	4	69 - 133	20	
1,1-Dichloroethene		10.0	11.7	117	11.9	119	2	68 - 130	20	
1,1-Dichloropropene		10.0	9.94	99	10.5	105	5	73 - 132	20	
1,2,3-Trichlorobenzene		10.0	8.74	87	9.34	93	7	67 - 137	20	
1,2,3-Trichloropropane		10.0	11.4	114	11.7	117	3	73 - 124	20	
1,2,4-Trichlorobenzene		10.0	9.70	97	10.2	102	5	66 - 134	20	
1,2,4-Trimethylbenzene		10.0	9.04	90	9.96	100	10	74 - 132	20	
1,2-Dibromo-3-chloropropane		10.0	9.95	100	10.6	106	6	50 - 132	20	
1,2-Dibromoethane		10.0	9.44	94	10.3	103	9	80 - 121	20	
1,2-Dichlorobenzene		10.0	10.5	105	11.3	113	8	71 - 122	20	
1,2-Dichloroethane		10.0	9.15	92	9.88	99	8	69 - 132	20	
1,2-Dichloropropane		10.0	9.19	92	10.1	101	9	75 - 125	20	
1,3,5-Trimethylbenzene		10.0	9.15	92	10.0	100	9	74 - 131	20	
1,3-Dichlorobenzene		10.0	10.4	104	11.1	111	7	75 - 124	20	
1,3-Dichloropropane		10.0	9.11	91	9.85	98	8	73 - 126	20	
1,4-Dichlorobenzene		10.0	9.99	100	10.9	109	8	74 - 123	20	
1-Chlorohexane		10.0	8.93	89	9.36	94	5	70 - 125	20	
2,2-Dichloropropane		10.0	10.1	101	10.5	105	4	69 - 137	20	
2-Butanone		20.0	19.1	96	20.1	101	5	49 - 136	20	
2-Chlorotoluene		10.0	9.63	96	10.3	103	7	73 - 126	20	
4-Chlorotoluene		10.0	10.6	106	12.0	120	12	74 - 128	20	
4-Methyl-2-pentanone		20.0	16.7	84	16.5	83	1	58 - 134	20	
Acetone		20.0	17.1	86	17.4	87	2	40 - 135	20	
Benzene		10.0	9.52	95	10.1	101	6	81 - 122	20	
Bromobenzene		10.0	9.94	99	10.7	107	7	76 - 124	20	
Bromochloromethane		10.0	9.25	92	10.1	101	9	65 - 129	20	
Bromodichloromethane		10.0	9.94	99	10.5	105	6	76 - 121	20	
Bromoform		10.0	8.72	87	9.43	94	8	69 - 128	20	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 9
MATRIX SPIKE/MATRIX SPIKE DUPLICATE SAMPLE RECOVERY

Analytical Method: SW8260B **AAB #:** R13266

Lab Name: Life Science Laboratories, Inc. **Contract #:**

Concentration Units (mg/L or mg/kg): µg/L **% Solids:** 0

Parent Field Sample ID: LCSD-13266 **MS ID:** LCS-13266 **MSD ID:** LCSD-13266

Calibration ID: 1221

Analyte	Parent Sample Result	Spike Added	Spiked Sample Result	%R	Duplicate Spiked Sample Result	%R	%RPD	Control Limits %R	Control Limits %RPD	Q
Bromomethane		10.0	10.0	100	9.57	96	5	30 - 141	20	
Carbon tetrachloride		10.0	9.05	90	9.81	98	8	66 - 138	20	
Chlorobenzene		10.0	9.49	95	9.98	100	5	81 - 122	20	
Chloroethane		10.0	10.0	100	9.69	97	4	58 - 133	20	
Chloroform		10.0	9.48	95	9.95	100	5	69 - 128	20	
Chloromethane		10.0	9.55	96	10.0	100	5	56 - 131	20	
cis-1,2-Dichloroethene		10.0	10.1	101	10.4	104	3	72 - 126	20	
cis-1,3-Dichloropropene		10.0	8.47	85	9.09	91	7	69 - 131	20	
Dibromochloromethane		10.0	9.68	97	10.3	103	6	66 - 133	20	
Dibromomethane		10.0	9.80	98	10.4	104	6	76 - 125	20	
Dichlorodifluoromethane		10.0	10.7	107	11.1	111	3	30 - 153	20	
Ethylbenzene		10.0	9.87	99	10.2	102	4	73 - 127	20	
Hexachlorobutadiene		10.0	10.9	109	11.4	114	5	67 - 131	20	
Isopropylbenzene		10.0	9.95	100	10.6	106	7	75 - 127	20	
Methyl tert-butyl ether		10.0	9.40	94	10.0	100	6	65 - 123	20	
Methylene chloride		10.0	8.74	87	9.04	90	3	63 - 137	20	
n-Butylbenzene		10.0	9.12	91	10.1	101	10	69 - 137	20	
n-Propylbenzene		10.0	10.3	103	11.2	112	8	72 - 129	20	
Naphthalene		10.0	9.52	95	10.4	104	9	54 - 138	20	
o-Xylene		10.0	10.5	105	11.1	111	5	80 - 121	20	
p-Isopropyltoluene		10.0	9.03	90	9.75	98	8	73 - 130	20	
sec-Butylbenzene		10.0	9.45	94	10.2	102	7	72 - 127	20	
Styrene		10.0	9.56	96	10.3	103	7	65 - 134	20	
tert-Butylbenzene		10.0	9.54	95	10.3	103	8	70 - 129	20	
Tetrachloroethene		10.0	9.61	96	10.3	103	7	66 - 128	20	
Toluene		10.0	9.53	95	10.3	103	8	77 - 122	20	
trans-1,2-Dichloroethene		10.0	10.2	102	10.6	106	4	63 - 137	20	
trans-1,3-Dichloropropene		10.0	8.36	84	9.12	91	9	59 - 135	20	
Trichloroethene		10.0	9.60	96	10.3	103	7	70 - 127	20	
Trichlorofluoromethane		10.0	10.6	106	11.2	112	6	57 - 129	20	
Vinyl chloride		10.0	10.4	104	10.5	105	2	50 - 134	20	
Xylenes (total)		30.0	31.0	104	32.7	109	5	80 - 121	20	

Comments:

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ORGANIC ANALYSES DATA SHEET 10
HOLDING TIMES

Analytical Method: SW8260B **AAB #:** R13266

Lab Name: Life Science Laboratories, Inc. **Contract #:**

Field Sample ID	Lab Sample ID	Date Collected	Date Received	Date Extracted	Max. Holding Time E	Time Held Ext.	Date Analyzed	Max. Holding Time A	Time Held Anal.	Q
TF3M119R11SA	0804056-001A	08-Apr-08	09-Apr-08	10-Apr-08			10-Apr-08	14	2.4	
TF3M121R11SA	0804056-002A	08-Apr-08	09-Apr-08	10-Apr-08			10-Apr-08	14	2.3	

Comments:

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ORGANIC ANALYSES DATA SHEET 11
INSTRUMENT ANALYSIS SEQUENCE LOG

Analytical Method: SW8260B **AAB#:**

Lab Name: Life Science Laboratories, Inc. **Contract #:**

Instrument ID #: MS02_12 **Calibration ID:** 1221

Field Sample ID/Std ID/ Blank ID/QC Sample ID	Lab Sample ID	Date Analysis Started	Time Analysis Started	Date Analysis Completed	Time Analysis Completed
TB040708A2	TB040708A2	07-Apr-08	11:43	07-Apr-08	13:13
ICAL 0.5 PPB	ICAL 0.5 PPB	07-Apr-08	13:13	07-Apr-08	15:16
ICAL 10 PPB	ICAL 10 PPB	07-Apr-08	15:16	07-Apr-08	16:44
ICAL 1.0 PPB	ICAL 1.0 PPB	07-Apr-08	16:44	07-Apr-08	17:23
ICAL 2.0 PPB	ICAL 2.0 PPB	07-Apr-08	17:23	07-Apr-08	18:03
ICAL 20 PPB	ICAL 20 PPB	07-Apr-08	18:03	07-Apr-08	18:42
ICAL 30 PPB	ICAL 30 PPB	07-Apr-08	18:42	07-Apr-08	19:21
ICAL 40 PPB	ICAL 40 PPB	07-Apr-08	19:21	08-Apr-08	14:34
2SRC-13190	2SRC-13190	08-Apr-08	14:34	08-Apr-08	14:34
TB041008A2	TB041008A2	10-Apr-08	12:35	10-Apr-08	13:59
LCS-13266	LCS-13266	10-Apr-08	13:59	10-Apr-08	14:38
LCSD-13266	LCSD-13266	10-Apr-08	14:38	10-Apr-08	15:57
MB-13266	MB-13266	10-Apr-08	15:57	10-Apr-08	20:32
TF3M121R11SA	0804056-002A	10-Apr-08	20:32	10-Apr-08	21:51
TF3M119R11SA	0804056-001A	10-Apr-08	21:51	10-Apr-08	21:51

Comments:

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ORGANIC ANALYSES DATA SHEET 12
INSTRUMENT PERFORMANCE CHECK
(BFB or DFTPP)

Analytical Method:	SW8260B	**AAB #:**	MS02_12_080407A
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**	
Instrument ID:	MS02_12	**Injection Date/Time:**	4/7/2008 11:43:00 AM
Initial Calibration ID:	1221	**File ID:**	C:\HPCHEM\1\DATA\M4818.D
Compound:	SW8260B	**Sample ID:**	TB040708A2

Mass	Ion Abundance Criteria	% Relative Abundance	Q
50	15 - 40% of m/z 95	22.1	
75	30 - 60% of m/z 95	46.2	
95	Base peak, 100% relative abundance	100	
96	5 - 9% of m/z 95	6.8	
173	Less than 2% of m/z 174	0	
174	Greater than 50% of m/z 95	58.2	
175	5 - 9% of m/z 174	6.6	
176	Greater than 95% but less than 101% of m/z 174	98.7	
177	5 - 9% of m/z 176	5.5	

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ORGANIC ANALYSES DATA SHEET 12
INSTRUMENT PERFORMANCE CHECK
(BFB or DFTPP)

Analytical Method:	SW8260B	**AAB #:**	MS02_12_080410B
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**	
Instrument ID:	MS02_12	**Injection Date/Time:**	4/10/2008 12:35:00 PM
Initial Calibration ID:	1221	**File ID:**	C:\HPCHEM\1\DATA\M4877.D
Compound:	SW8260B	**Sample ID:**	TB041008A2

Mass	Ion Abundance Criteria	% Relative Abundance	Q
50	15 - 40% of m/z 95	23.7	
75	30 - 60% of m/z 95	50.5	
95	Base peak, 100% relative abundance	100	
96	5 - 9% of m/z 95	6.1	
173	Less than 2% of m/z 174	0	
174	Greater than 50% of m/z 95	56.2	
175	5 - 9% of m/z 174	5.8	
176	Greater than 95% but less than 101% of m/z 174	99.2	
177	5 - 9% of m/z 176	6.3	