N61165.AR.005288
CNC CHARLESTON
5090.3a

RESULTS OF GROUNDWATER SAMPLING AND ANALYSIS FOR NS-2 AND NS-3 CNC CHARLESTON SC

04/01/2009

CH2M HILL

CH2M HILL
3011 SW Williston Rd.
Gainesville, FL 32608-3928
P. O. Box 147009
Gainesville, FL 32614-7009
Tel 352-335-7991
Fax 352-335-2959

CH2MHILL

RECEIVED

APR 0 9 2009

SITE ASSESSMENT, REMEDIATION & REVITALIZATION

April 1, 2009

NS-3 00961

17595 NS2

Janice Cooke
Bureau of Land Management
SC Department of Health and Environmental Control
2600 Bull Street
Columbia, SC 29201

Subject: Copy of Results of Groundwater Sampling and Analysis, NS and NS 3 and Copy of Signature Page for November 2008 Monitoring Report - Building NH-46; Charleston Naval Complex

Dear Ms. Cooke:

Please find enclosed one copy of the Results of Groundwater Sampling and Analysis, NS and NS 3 and a signed/sealed signature page for the November 2008 Monitoring Report - Building NH-46, all sites located at the Charleston Naval Complex.

Please contact me if you have any questions or comments about these reports.

Sincerely,

CH2M HILL

Dean Williamson

Dean Williamson, P.E.
Project Engineer

c: Kathy Stewart/NAVFAC w/ att
Gary Foster/CH2M HILL w/att

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MEMORANDUM CH2MHILL

Results of Groundwater Sampling and Analysis, NS 2 and NS 3, Charleston Naval Complex

TO: Kathryn Stewart, P.E./BRAC Program Management Office SE

COPIES: Gary Foster/CH2M HILL

FROM: Dean Williamson/CH2M HILL

DATE: March 5, 2009

RECEIVED
APR 0 9 2009
SITE ASSESSMENT
REMEDIATION &
REVITALIZATION

This memorandum presents the results of groundwater sampling and analysis at two temporary wells installed at former Buildings NS 2 and NS 3 at the Charleston Naval Complex (CNC).

Background

Buildings NS 2 and NS 3, recently demolished, are located at the former CNC. See Figure 1 for building locations. NS 2 was a boiler house, originally constructed in 1958. Underground storage tank (UST) NS 2A, an unregulated 560 gallon underground waste oil holding tank for an oil/water separator, was located in an area between Buildings NS 2 and NS 3. This tank was removed in April 1996. During removal it was noticed that the tank was intact with no holes and pitting.

NS 3 was a former pump station, originally constructed in 1958. A waste oil holding tank for an oil water separator, UST NS 3-1, was removed from the site in 1997. During removal some evidence of corrosion was observed but no significant contamination was detected.

Groundwater sampling at NS 2 and NS 3 was conducted in November 2002. Two DPT groundwater samples (UN2GP001 and UN2GP002) and one monitoring well sample (NBCI675001) were collected. All sample results were below the Risk Based Screening Levels (RBSL) for VOCs and SVOCs, indicating no organic contamination in the groundwater at that time.

On December 11, 2002 SCDHEC issued a letter requesting that groundwater at the site be sampled for metals due to the historical presence of waste oil tank at the site. On December 21, 2002 groundwater at the site was re-sampled for total and dissolved metals from two DPTs and one monitoring well. The groundwater sample results were all below the RBSL for dissolved metals.

Based on these sampling activities, CH2M HILL submitted a report concluding all COCs were below RBSLs. Based on the UST assessment reports and 2002 sampling results, No Further Action (NFA) was recommended for the site. The NFA request for NS 2 and 3 was approved by SCDHEC on March 17, 2003.

Analytical Results for Groundwater Samples

Analytical results are summarized in Table 1. Analytical data reports are presented in **Attachment 2**. The results indicate one exceedance of the RBSL screening criteria in well NS2TW002. Naphthalene in Well NS2TW002, at a concentration of 29 µg/L, slightly exceeds its RBSL of 25 µg/L. All other results are below the Tier 1 RBSLs.

Based on these results, concentrations of petroleum-related chemicals at NS 2 and NS 3 are generally below or close to the Tier 1 RBSLs. Given that the land use at the site is non-residential and site conditions provide little to no potential for exposure of receptors, further activities do not appear warranted.

Certification Page

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

South Carolina

Permit No. 21428

Dean Williamson

Dean Williamson, P.E.

3/31/2009

Date

NOTE: Aerial Photo Date is 1997
NOTE: Original figure created in color

Abandoned
Temporary
Roads - Lines
Shoreline
Buildings
Zone Boundary

N

0 40 80 Feet

1 inch = 56.6577 feet

Figure 1
Temporary Well Location Map
Buildings NS-2 and NS-3
Charleston Naval Complex

File Path: c:\18gis\cnc\cnc-egis.apr, Date: 05 Mar 2009 10:50, User: BSHARMA, EGIS: Charleston Naval Complex - Figure 1 Temporary Well Location Map

TABLE 1

Comparison of Detected Compounds to Risk Based Screening Levels (RBSL)

NS2 and NS3 Investigation (Temporary Well Installation)

	RBSL*	NS2TW001T1		NS2TW002T1	
Chemical of Concern	ug/L	result, ug/L	Qualifier	result, ug/L	Qualifier
Benzene	5	1	U	1	U
Toluene	1000	1	U	1	U
Ethylbenzene	700	1	U	0.65	J
Xylenes (total)	10000	1	U	1	U
Naphthalenes	25	21.9	=	29.9	=
Benzo(a)anthracene	10	0.613	J	0.943	U
Chrysene	10	0.478	J	0.943	U
Benzo(b)fluoranthene	10	0.335	J	0.943	U
Benzo(k)fluoranthene	10	0.943	U	0.943	U
Dibenzo(a,h)anthracene	10	0.943	U	0.943	U
TOTAL PAHs**	**25**	1.426		ND***	

* Reference: South Carolina Risk-Based Corrective Action for Petroleum Releases

**TOTAL PAHs: In calculating SSTLs for individual PAHs (Benzo(a)anthracene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Chrysene, and Dibenz(a,h)anthracene),use RBSL of 10 ug/L for each COC

***ND = Non-Detects (not included in total PAHs)

Exceedance of RBSL

U = chemical not detected above reporting limit
J = concentration is estimated

Attachment 1
Temporary Well Construction Logs

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CH2MHILL

WELL NUMBER:
UNS2TW001

SHEET 1 OF 1

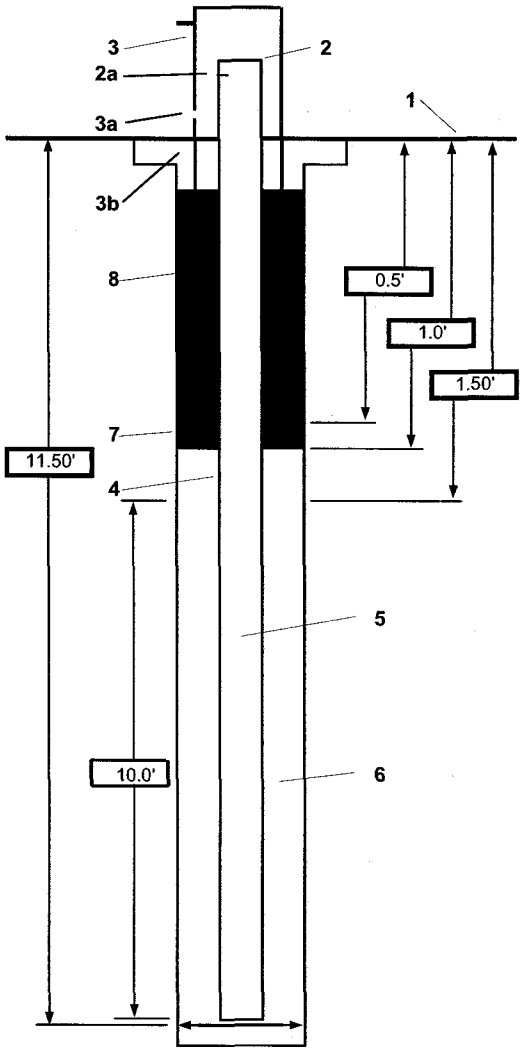
TEMP WELL COMPLETION DIAGRAM

PROJECT : Buildings NS2 and NS3 LOCATION : FLETC, Charleston Naval Complex

DRILLING CONTRACTOR : Boart Longyear

DRILLING METHOD AND EQUIPMENT USED : Track-Mounted Geoprobe

WATER LEVELS : Approx 2.5 feet btoc Date: 2-4-2009



1- Ground elevation at well	Not Obtained
2- Top of casing elevation	Not Obtained
a) vent hole?	
3- Wellhead protection cover type	None
a) weep hole?	None
b) concrete pad dimensions	None
4- Dia./type of well casing	1-inch / PVC
5- Type/slot size of screen	Prepacked PVC / .010 slot
6- Type screen filter	Prepacked 20/30 Silica sand
7- Type of seal	Bentonite Pellets
8- Grout	
a) Grout mix used	None
b) Method of placement	
c) Vol. of well casing grout	
Development method	Low Flow
Development time	10 minutes
Estimated purge volume	One Gallon

Comments Temporary well developed using a peristaltic pump. Purge water clear prior to well puring dry.

Attachment 2
Analytical Reports

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Case Narrative

Case Narrative
for
CH2M-JONES, LLC #510016 (Charleston CNC)
SDG: 224133

February 19, 2009

Laboratory Identification:

GEL Laboratories LLC
2040 Savage Road
Charleston, South Carolina 29407
(843) 556-8171

Summary:

Sample Receipt The samples arrived at GEL Laboratories LLC, Charleston, South Carolina on February 06, 2009 for analysis. The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt.

Sample Identification The laboratory received the following samples:

Laboratory ID	Client ID
224133001	NS2TW001T1
224133002	NS2TW002T1
224133003	NS2EW001T1
224133004	NS2TR001T1

Case Narrative

Sample analyses were conducted using methodology as outlined in GEL Laboratories, LLC (GEL) Standard Operating Procedures. Any technical or administrative problems during analysis, data review, and reduction are contained in the analytical case narratives in the enclosed data package.

Internal Chain of Custody

Custody was maintained.

Data Package:

The enclosed data package contains the following sections: Case Narrative, Chain of Custody, Cooler Receipt Checklist, Data Package Qualifier Definitions and data from the following fractions: GC/MS Semivolatile and GC/MS Volatile.

J M Harley
Joanne Harley

Project Manager

Chain of Custody and Supporting Documentation

CH2M HILL Chain of Custody/ Laboratory Analysis Form

COC Tracking #: ZIU36-042307-01 page 1 of 2

Laboratory: GEL

Site Name: Zone H, Site 36 (UST Bldg. NS26) SCDHEC No. 00944

Project Name: Charleston Navy Complex

Project Number: 158814

TAT: standard

Project Manager:

QA Level: 2

Address: GNV: 3011 SW Williston Rd., Gainesville, FL 32605

Send Report To: See last page

EDD: CNC format

Lab Batch/SDG: Z24133

Sample ID	Station ID	Sample Description	Depth Begin	Depth End	Date & Time Collected	Matrix	# of containers	VOCs (SW8260B) (3 - 40ml vial, HC)	SVOCs (8270) (1 - 1 liter Amber)								Comments
NS2TW001T1	UNS2TW001				2-6-2009 / 1040	WG	4	X	X								
NS2TW002T1	UNS2TW002				2-6-2009 / 1122	WG	4	X	X								
NS2EW001T1	UNS2EW001				2-6-2009 / 1130	WG	4	X	X								
NS2TR001T1	UNS2TR001				lab supplied	WG	3	X									

Sampled By: Darryl Gates

Date/Time: As noted

Relinquished by: [signature]

Date/Time: 2/6/09 / 1530

Additional Samplers:

Received By Lab: [signature]

Date/Time: 2/6/09 1530

Relinquished by:

Date/Time

Received By:

Date/Time

Shipped Via: UPS FedEx Hand Other Tracking#:

Remarks:

Temperature: 4

Receipt Exceptions:

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: CH2M Hill	**SDG/ARCOC/Work Order:** 224133
Received By: MK	**Date Received:** 2-6-09

Suspected Hazard Information	**Yes**	**No**	*If Counts > x2 area background on samples not marked "radioactive", contact the Radiation Safety Group of further investigation.
COC/Samples marked as radioactive?		✓	Maximum Counts Observed*: CPM 20
Classified Radioactive II or III by RSO?		✓	
COC/Samples marked containing PCBs?		✓	
Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#:
Samples identified as Foreign Soil?		✓	

	Sample Receipt Criteria	**Yes**	**NA**	**No**	**Comments/Qualifiers (Required for Non-Conforming Items)**
1	Shipping containers received intact and sealed?	✓			Circle Applicable: seals broken damaged container leaking container other (describe)
2	Samples requiring cold preservation within 0 ≤ 6 deg. C?	✓			Preservation Method: ice bags blue ice dry ice none other (describe) 4C
3	Chain of custody documents included with shipment?	✓			
4	Sample containers intact and sealed?	✓			Circle Applicable: seals broken damaged container leaking container other (describe)
5	Samples requiring chemical preservation at proper pH?		✓		Sample ID's, containers affected and observed pH: If Preservation added, Lot#:
6	VOA vials free of headspace (defined as < 6mm bubble)?	✓			Sample ID's and containers affected:
7	Are Encore containers present?			✓	(If yes, immediately deliver to Volatiles laboratory)
8	Samples received within holding time?	✓			Id's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			Sample ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Sample ID's affected: TB 2-3-09 1930
11	Number of containers received match number indicated on COC?	✓			Sample ID's affected:
12	COC form is properly signed in relinquished/received sections?	✓			

Comments:

WALK-IN

PM (or PMA) review: Initials [signature] Date 2/6/09

Laboratory Certifications

List of current GEL Certifications as of 19 February 2009

State	Certification
Arizona	AZ0668
Arkansas	88–0651
CLIA	42D0904046
California – NELAP	01151CA
Colorado	GEL
Connecticut	PH–0169
Dept. of Navy	NFESC 413
EPA Region 5	WG–15J
Florida – NELAP	E87156
Georgia	E87156 (FL/NELAP)
Georgia DW	967
Hawaii	N/A
ISO 17025	2567.01
Idaho	SC00012
Illinois – NELAP	200029
Indiana	C–SC–01
Kansas – NELAP	E–10332
Kentucky	90129
Louisiana – NELAP	03046
Maryland	270
Massachusetts	M–SC012
Nevada	SC00012
New Jersey – NELAP	SC002
New Mexico	FL NELAP E87156
New York – NELAP	11501
North Carolina	233
North Carolina DW	45709
Oklahoma	9904
Pennsylvania – NELAP	68–00485
South Carolina	10120001/10120002
Tennessee	TN 02934
Texas – NELAP	T104704235–07B–TX
U.S. Dept. of Agriculture	S–52597
Utah – NELAP	GEL
Vermont	VT87156
Virginia	00151
Washington	C1641

Data Package Qualifier Definitions

Data Review Qualifier Definitions

Qualifier	Explanation
*	A quality control analyte recovery is outside of specified acceptance criteria
**	Analyte is a surrogate compound
<	Result is less than value reported
>	Result is greater than value reported
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL
A	The TIC is a suspected aldol-condensation product
B	Target analyte was detected in the associated blank
B	Metals-Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL
BD	Results are either below the MDC or tracer recovery is low
C	Analyte has been confirmed by GC/MS analysis
D	Results are reported from a diluted aliquot of the sample
d	5-day BOD-The 2:1 depletion requirement was not met for this sample
E	Organics-Concentration of the target analyte exceeds the instrument calibration range
E	Metals-%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
H	Analytical holding time was exceeded
h	Preparation or preservation holding time was exceeded
J	Value is estimated
N	Metals-The Matrix spike sample recovery is not within specified control limits
N	Organics-Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
N/A	Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
ND	Analyte concentration is not detected above the reporting limit
UI	Gamma Spectroscopy-Uncertain identification
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y	QC Samples were not spiked with this compound
Z	Paint Filter Test-Particulates passed through the filter, however no free liquids were observed.

GEL Laboratories LLC

problem solved

P.O. Box 30712~Charleston, S.C. 29417~2040 Savage Road~29407
(843)556-8171~Fax(843)766-1178

Invoice for Analytical Services

COPY

Accounts Payable (CH2M)
CH2M Hill Constructors, Inc./Jones JV
P.O. Box 241329
Denver, Colorado 80224

PO: 510016

Invoice #: 179676
Invoice Date: 19-FEB-09
Terms: Net 30
Client: CH2M-JONES, LLC #510016 (Charleston CNC)
Description (Order): Project # 158827 Level 2
Workorder/SDG: 224133
Project: CH2M01007
Project Manager: Joanne Harley

GELID: 224133001 **Matrix:** GROUND WATER **ClientID:** NS2TW001T1 **Collected:** 06-FEB-09 **Received:** 06-FEB-09

Test	Description	Methods	Turn Days	Charge
MSD10C70DL	SW846 3510C/8270D Semivolatile Analysis	SW846 3510C/8270D	21 (Receive)	$160.68
VOAM8260LF	CNC 2007 VOA LIST With Napthalene	SW8260B	21 (Receive)	$85.70
			Sample Total:	**$246.38**

GELID: 224133002 **Matrix:** GROUND WATER **ClientID:** NS2TW002T1 **Collected:** 06-FEB-09 **Received:** 06-FEB-09

Test	Description	Methods	Turn Days	Charge
MSD10C70DL	SW846 3510C/8270D Semivolatile Analysis	SW846 3510C/8270D	21 (Receive)	$160.68
VOAM8260LF	CNC 2007 VOA LIST With Napthalene	SW8260B	21 (Receive)	$85.70
			Sample Total:	**$246.38**

GELID: 224133003 **Matrix:** GROUND WATER **ClientID:** NS2EW001T1 **Collected:** 06-FEB-09 **Received:** 06-FEB-09

Test	Description	Methods	Turn Days	Charge
MSD10C70DL	SW846 3510C/8270D Semivolatile Analysis	SW846 3510C/8270D	21 (Receive)	$160.68
VOAM8260LF	CNC 2007 VOA LIST With Napthalene	SW8260B	21 (Receive)	$85.70
			Sample Total:	**$246.38**

GELID: 224133004 **Matrix:** WATER **ClientID:** NS2TR001T1 **Collected:** 06-FEB-09 **Received:** 06-FEB-09

Test	Description	Methods	Turn Days	Charge
VOAM8260LF	CNC 2007 VOA LIST With Napthalene	SW8260B	21 (Receive)	$85.70
			Sample Total:	**$85.70**

Miscellaneous Charge	Description	Charge
Misc.	14 day requested after login	$41.24

Invoice Total: **$866.08**

GC/MS Volatile Analysis

GC/MS Volatile Organics
CH2M-JONES, LLC #510016 (CH2M)
SDG 224133

Method/Analysis Information

Procedure: Volatile Organic Compounds (VOC) by Gas Chromatograph/Mass Spectrometer
Analytical Method: SW846 8260B
Prep Method: SW846 5030B
Analytical Batch Number: 843092

Sample Analysis

The following client and quality control samples were analyzed to complete this SDG using the methods referenced in the Analysis Information section:

Sample ID	Client ID
224133001	NS2TW001T1
224133002	NS2TW002T1
224133003	NS2EW001T1
224133004	NS2TR001T1
1201780772	Method Blank (MB)
1201780777	Laboratory Control Sample (LCS)
1201782622	Method Blank (MB)
1201782623	Laboratory Control Sample (LCS)
1201780773	224131001(039IDW01U1) Post Spike (PS)
1201780775	224131001(039IDW01U1) Post Spike Duplicate (PSD)
1201780774	224133001(NS2TW001T1) Post Spike (PS)
1201780776	224133001(NS2TW001T1) Post Spike Duplicate (PSD)

NOTE: For volatile organic analyses the matrix spike designations may be indicated as "PS" or "PSD". The "PS" designation (post spike) indicates that the matrix was fortified prior to analysis but after applying any prep factors, such as a dilution. The laboratory considers the MS/MSD and PS/PSD designations interchangeable.
The samples in this SDG were analyzed on an "as received" basis.

Preparation/Analytical Method Verification

SOP Reference
Procedure for preparation, analysis and reporting of analytical data are controlled by GEL Laboratories LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-OA-E-038 REV# 12.

Raw data reports are processed and reviewed by the analyst using the Target software package. False positives have been removed from the Target quantitation reports per standard operating procedures (SOP) section 19.1.2.

Calibration Information

Please note that the 'Cal Date' indicated on each quantitation report reflects the date and time of the most recent calibrated analyte(s) in the Target processing method. Since the laboratory may calibrate with multiple solutions on different days using the same processing method, the Target software will update the 'Cal Date' to the last calibration file, date and time. The correct dates and times for all calibration files are located on the Calibration History report in the Standard Data section in the data package.

The surrogate compounds were calibrated using a minimum five-point calibration curve. The surrogates were added by the auto sampler at a concentration of 50 ug/L. GEL Laboratories LLC will not have surrogate recoveries reported for Dibromofluoromethane. This is due to increased regulations for this analyte and an industry shortage.

Due to software limitations, the Calibration Summary Form 6 may not indicate all the calibration files comprising the initial calibration. A complete list of the initial calibration data files are shown in the Calibration History report located in the Standard Data section of the data package.

The linear equation used in Target and indicated on the initial calibration summary form is not a conventional linear equation (slope intercept formula) and does not match the equation found in SW-846 method 8000B. The x and y axes are inversed in Target, so that the instrument response is treated as the independent variable (x) and the concentration ratio is treated as the dependent variable (y). The equation used in Target to calculate sample results is adjusted to account for the linear equation inversion and reciprocal slope. The adjusted calculation has been independently verified to produce valid results.

Initial Calibration
All initial calibration requirements have been met for this sample delivery groups (SDG). A second source initial calibration verification (ICV) was included in the standard section directly behind the initial calibration.

Continuing Calibration Verification Requirements
All associated calibration verification standard(s) (ICV or CCV) met the acceptance criteria.

Quality Control (QC) Information

Method Blank (MB) Statement
The MBs analyzed with this SDG met the acceptance criteria.

Surrogate Recoveries
Surrogate recoveries in all client and quality control samples were within the acceptance limits.

Laboratory Control Sample (LCS) Recovery
The LCS recoveries were within the acceptance limits, except 1,2,3-Trichlorobenzene in LCS (1201782623). This LCS was associated with samples that were analyzed at dilutions for over range target analytes. 1,2,3-Trichlorobenzene was not an analyte of interest for the diluted analyses. The results are reported. See NCR

QC Sample Designation
Sample 224131001 (039IDW01U1) and 224133001 (NS2TW001T1) were designated for spike analysis in this SDG.

Matrix Spike (PS) Recovery Statement
The spike recoveries were not within the acceptance limits. Please see the Form III's in the deliverable for a complete list of recoveries and limits. See NCR 659564.

Matrix Spike Duplicate (PSD) Recovery Statement
The spike duplicate recoveries were not within the acceptance limits. Please see the Form III's in the deliverable for a complete list of recoveries and limits. See NCR 659564.

Relative Percent Difference (RPD) Statement
The RPD between the matrix spike pair were within the acceptance limits, except cis-1,2-Dichloroethylene in MS/MSD pair (1201780773/1201780775). The results are reported. See NCR 659564.

Internal Standard (ISTD) Acceptance
The internal standard responses in all client and quality control samples met the required acceptance criteria.

Technical Information

Holding Time Specifications
GEL assigns holding times based on the associated methodology, which assigns the date and time from

sample collection or sample receipt. Those holding times expressed in hours are calculated in the ALPHALIMS system. Those holding times expressed as days expire at midnight on the day of expiration. All samples in this SDG met the specified holding time.

Sample Preservation and Integrity
All samples met the sample preservation and integrity requirements.

Sample Dilutions
Samples 224133001 (NS2TW001T1DL) and 224133002 (NS2TW002T1DL) were diluted because target analyte concentrations exceeded the calibration range.

Sample Re-extraction/Re-analysis
Re-analyses were not required for samples in this SDG.

Miscellaneous Information

Electronic Package Comment
This data package was generated using an electronic data processing program referred to as virtual packaging. In an effort to increase quality and efficiency, the laboratory has developed systems to generate all data packages electronically. The following change from traditional packages should be noted:

Analyst/peer reviewer initials and dates are not present on the electronic data files. Presently, all initials and dates are present on the original raw data. These hard copies are temporarily stored in the laboratory. An electronic signature page inserted after the case narrative of each electronic package will indicate the analyst, reviewer, and report specialist names associated with the generation of the data and package. The data validator will always sign and date the case narrative. Data that are not generated electronically, such as hand written pages, will be scanned and inserted into the electronic package.

Nonconformance (NCR) Documentation
NCR # 659564 was generated for this SDG.

Manual Integrations
Data files associated with the initial calibration, continuing calibration check, and samples did not require manual integrations.

TIC Comment
Tentatively identified compounds (TIC) were not required for this SDG.

Additional Comments
Additional comments were not required for this SDG.

Residual Chlorine
Residual Chlorine was not detected in any of the samples in this SDG.

System Configuration
The Volatile-GC/MS analysis was performed on the following instrument configuration:

Instrument ID	Instrument	System Configuration	Column ID	Column Description	P & T Trap
VOA5.I	Gas Chromatograph/Mass Spectrometer	HP6890N/HP5975	J&W1	DB-624, 60m x 0.25mm, 1.4um	Trap 10

Certification Statement
When the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Review Validation

GEL requires all analytical data to be verified by a qualified data validator. In addition, all data designated for CLP or CLP-like packaging will receive a third level validation upon completion of the data package.

The following data validator verified the information presented in this case narrative:

Reviewer: Erin Haubert Date: 02/19/09

Roadmap for CH2M 224133 VOA

This roadmap was analyzed by eh1 on 02-19-2009, 13:40.
This roadmap was analyzed by dav01267 on 02-19-2009, 14:21.
This roadmap was reviewed by kel00587 on 02-19-2009, 15:34.

Sample

exclude	manual	datafile	smpid	clientid	injdate	injtime	sublist	dilution	batchid	comment
☐	N	/chem/VOA5.i/021809v5/5y311.d	224133001	NS2TW001T1	18-FEB-2009	18:40	224133.sub	1	843092	
☐	N	/chem/VOA5.i/021809v5/5y312.d	224133002	NS2TW002T1	18-FEB-2009	19:06	224133.sub	1	843092	
☐	N	/chem/VOA5.i/021809v5/5y313.d	224133003	NS2EW001T1	18-FEB-2009	19:31	224133.sub	1	843092	
☐	N	/chem/VOA5.i/021809v5/5y314.d	224133004	NS2TR001T1	18-FEB-2009	19:57	224133.sub	1	843092	
☐	N	/chem/VOA5.i/021909v5/5y407.d	224133001	NS2TW001T1DL	19-FEB-2009	12:12	224133.sub	2	843092	
☐	N	/chem/VOA5.i/021909v5/5y408.d	224133002	NS2TW002T1DL	19-FEB-2009	12:38	224133.sub	2	843092	

QC Sample

exclude	manual	datafile	smpid	clientid	sampletype	injdate	injtime	sublist	dilution	batchid	comment
☐	N	/chem/VOA5.i/021809v5/5y302LC.d	1201780777	LCS	lcs	18-FEB-2009	13:20	all.sub	1	843092	
☐	N	/chem/VOA5.i/021809v5/5y305BC.d	1201780772	MB	mb	18-FEB-2009	14:37	all.sub	1	843092	
■	N	/chem/VOA5.i/021809v5/5y318.d	1201780773	039IDW01U1MS	ms	18-FEB-2009	21:39	224131.sub	1	843092	
■	N	/chem/VOA5.i/021809v5/5y319.d	1201780775	039IDW01U1MSD	msd	18-FEB-2009	22:05	224131.sub	1	843092	
☐	N	/chem/VOA5.i/021809v5/5y320.d	1201780774	NS2TW001T1MS	ms	18-FEB-2009	22:31	224133.sub	1	843092	
☐	N	/chem/VOA5.i/021809v5/5y321.d	1201780776	NS2TW001T1MSD	msd	18-FEB-2009	22:56	224133.sub	1	843092	
☐	N	/chem/VOA5.i/021909v5/5y403LC.d	1201782623	LCS	lcs	19-FEB-2009	10:30	all.sub	1	843092	
☐	N	/chem/VOA5.i/021909v5/5y406BC.d	1201782622	MB	mb	19-FEB-2009	11:47	all.sub	1	843092	

Sample Data Summary

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	224133	**Date Collected:**	02/06/2009 11:30	**Matrix:**	WG
Lab Sample ID:	224133003	**Date Received:**	02/06/2009 15:30		
		Client:	CH2M028	**Project:**	CH2M01007
Client ID:	NS2EW001T1	**Method:**	SW846 8260B	**SOP Ref:**	GL-OA-E-038
Batch ID:	843092	**Inst:**	VOA5.I	**Dilution:**	1
Run Date:	02/18/2009 19:31	**Analyst:**	DXK1	**Purge Vol:**	5 mL
Prep Date:	02/18/2009 19:31				
Data File:	5y313.d	**Column:**	DB-624	**Level:**	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	RDL
74-87-3	Chloromethane	U	1.00	ug/L	0.300	1.00	1.00
75-01-4	Vinyl chloride	U	1.00	ug/L	0.500	1.00	1.00
74-83-9	Bromomethane	U	1.00	ug/L	0.500	1.00	1.00
75-00-3	Chloroethane	U	1.00	ug/L	0.300	1.00	1.00
67-64-1	Acetone	U	5.00	ug/L	1.50	5.00	10.0
75-35-4	1,1-Dichloroethylene	U	1.00	ug/L	0.300	1.00	1.00
75-09-2	Methylene chloride	U	5.00	ug/L	2.00	5.00	5.00
75-15-0	Carbon disulfide	U	5.00	ug/L	1.25	5.00	5.00
156-60-5	trans-1,2-Dichloroethylene	U	1.00	ug/L	0.300	1.00	1.00
108-05-4	Vinyl acetate	U	5.00	ug/L	1.50	5.00	10.0
75-34-3	1,1-Dichloroethane	U	1.00	ug/L	0.300	1.00	1.00
78-93-3	2-Butanone	U	5.00	ug/L	1.25	5.00	10.0
156-59-2	cis-1,2-Dichloroethylene	U	1.00	ug/L	0.300	1.00	1.00
67-66-3	Chloroform	U	1.00	ug/L	0.250	1.00	1.00
71-55-6	1,1,1-Trichloroethane	U	1.00	ug/L	0.325	1.00	1.00
56-23-5	Carbon tetrachloride	U	1.00	ug/L	0.260	1.00	1.00
107-06-2	1,2-Dichloroethane	U	1.00	ug/L	0.250	1.00	1.00
71-43-2	Benzene	U	1.00	ug/L	0.300	1.00	1.00
79-01-6	Trichloroethylene	U	1.00	ug/L	0.250	1.00	1.00
78-87-5	1,2-Dichloropropane	U	1.00	ug/L	0.250	1.00	1.00
75-27-4	Bromodichloromethane	U	1.00	ug/L	0.250	1.00	1.00
110-75-8	2-Chloroethylvinyl ether	U	5.00	ug/L	1.50	5.00	10.0
108-10-1	4-Methyl-2-pentanone	U	5.00	ug/L	1.25	5.00	10.0
10061-01-5	cis-1,3-Dichloropropene *cis-1,3-Dichloropropylene*	U	1.00	ug/L	0.250	1.00	1.00
108-88-3	Toluene	U	1.00	ug/L	0.250	1.00	1.00
10061-02-6	trans-1,3-Dichloropropene *trans-1,3-Dichloropropylene*	U	1.00	ug/L	0.250	1.00	1.00
79-00-5	1,1,2-Trichloroethane	U	1.00	ug/L	0.250	1.00	1.00
591-78-6	2-Hexanone	U	5.00	ug/L	1.25	5.00	10.0
127-18-4	Tetrachloroethylene	U	1.00	ug/L	0.450	1.00	1.00
124-48-1	Dibromochloromethane	U	1.00	ug/L	0.260	1.00	1.00
108-90-7	Chlorobenzene	U	1.00	ug/L	0.250	1.00	1.00
100-41-4	Ethylbenzene	U	1.00	ug/L	0.250	1.00	1.00
9999000760 179601-23-1	m,p-Xylenes	U	2.00	ug/L	0.430	2.00	2.00
95-47-6	o-Xylene	U	1.00	ug/L	0.250	1.00	1.00
100-42-5	Styrene	U	1.00	ug/L	0.250	1.00	1.00
75-25-2	Bromoform	U	1.00	ug/L	0.250	1.00	1.00
79-34-5	1,1,2,2-Tetrachloroethane	U	1.00	ug/L	0.250	1.00	1.00

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	**224133**	**Date Collected:**	**02/06/2009 11:30**	**Matrix:**	**WG**
Lab Sample ID:	**224133003**	**Date Received:**	**02/06/2009 15:30**		
		Client:	**CH2M028**	**Project:**	**CH2M01007**
Client ID:	**NS2EW001T1**	**Method:**	**SW846 8260B**	**SOP Ref:**	**GL-OA-E-038**
Batch ID:	**843092**	**Inst:**	**VOA5.I**	**Dilution:**	**1**
Run Date:	**02/18/2009 19:31**	**Analyst:**	**DXK1**	**Purge Vol:**	**5 mL**
Prep Date:	**02/18/2009 19:31**				
Data File:	**5y313.d**	**Column:**	**DB-624**	**Level:**	**LOW**

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	RDL
541-73-1	1,3-Dichlorobenzene	U	1.00	ug/L	0.250	1.00	1.00
106-46-7	1,4-Dichlorobenzene	U	1.00	ug/L	0.250	1.00	1.00
91-20-3	Naphthalene	U	1.00	ug/L	0.250	1.00	10.0
87-61-6	1,2,3-Trichlorobenzene	U	1.00	ug/L	0.332	1.00	1.00
540-59-0	1,2-Dichloroethylene (total)	U	1.00	ug/L	0.300	1.00	1.00
1330-20-7	Xylenes (total)	U	1.00	ug/L	0.600	1.00	3.00
120-82-1	1,2,4-Trichlorobenzene	U	1.00	ug/L	0.300	1.00	1.00
95-50-1	1,2-Dichlorobenzene	U	1.00	ug/L	0.250	1.00	1.00

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	**224133**	**Date Collected:**	**02/06/2009 12:00**	**Matrix:**	**WG**
Lab Sample ID:	**224133004**	**Date Received:**	**02/06/2009 15:30**		
		Client:	**CH2M028**	**Project:**	**CH2M01007**
Client ID:	**NS2TR001T1**	**Method:**	**SW846 8260B**	**SOP Ref:**	**GL-OA-E-038**
Batch ID:	**843092**	**Inst:**	**VOA5.I**	**Dilution:**	**1**
Run Date:	**02/18/2009 19:57**	**Analyst:**	**DXK1**	**Purge Vol:**	**5 mL**
Prep Date:	**02/18/2009 19:57**				
Data File:	**5y314.d**	**Column:**	**DB-624**	**Level:**	**LOW**

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	RDL
74-87-3	Chloromethane	U	1.00	ug/L	0.300	1.00	1.00
75-01-4	Vinyl chloride	U	1.00	ug/L	0.500	1.00	1.00
74-83-9	Bromomethane	U	1.00	ug/L	0.500	1.00	1.00
75-00-3	Chloroethane	U	1.00	ug/L	0.300	1.00	1.00
67-64-1	Acetone	U	5.00	ug/L	1.50	5.00	10.0
75-35-4	1,1-Dichloroethylene	U	1.00	ug/L	0.300	1.00	1.00
75-09-2	Methylene chloride	U	5.00	ug/L	2.00	5.00	5.00
75-15-0	Carbon disulfide	U	5.00	ug/L	1.25	5.00	5.00
156-60-5	trans-1,2-Dichloroethylene	U	1.00	ug/L	0.300	1.00	1.00
108-05-4	Vinyl acetate	U	5.00	ug/L	1.50	5.00	10.0
75-34-3	1,1-Dichloroethane	U	1.00	ug/L	0.300	1.00	1.00
78-93-3	2-Butanone	U	5.00	ug/L	1.25	5.00	10.0
156-59-2	cis-1,2-Dichloroethylene	U	1.00	ug/L	0.300	1.00	1.00
67-66-3	Chloroform	U	1.00	ug/L	0.250	1.00	1.00
71-55-6	1,1,1-Trichloroethane	U	1.00	ug/L	0.325	1.00	1.00
56-23-5	Carbon tetrachloride	U	1.00	ug/L	0.260	1.00	1.00
107-06-2	1,2-Dichloroethane	U	1.00	ug/L	0.250	1.00	1.00
71-43-2	Benzene	U	1.00	ug/L	0.300	1.00	1.00
79-01-6	Trichloroethylene	U	1.00	ug/L	0.250	1.00	1.00
78-87-5	1,2-Dichloropropane	U	1.00	ug/L	0.250	1.00	1.00
75-27-4	Bromodichloromethane	U	1.00	ug/L	0.250	1.00	1.00
110-75-8	2-Chloroethylvinyl ether	U	5.00	ug/L	1.50	5.00	10.0
108-10-1	4-Methyl-2-pentanone	U	5.00	ug/L	1.25	5.00	10.0
10061-01-5	cis-1,3-Dichloropropene	U	1.00	ug/L	0.250	1.00	1.00
	cis-1,3-Dichloropropylene						
108-88-3	Toluene	U	1.00	ug/L	0.250	1.00	1.00
10061-02-6	trans-1,3-Dichloropropene	U	1.00	ug/L	0.250	1.00	1.00
	trans-1,3-Dichloropropylene						
79-00-5	1,1,2-Trichloroethane	U	1.00	ug/L	0.250	1.00	1.00
591-78-6	2-Hexanone	U	5.00	ug/L	1.25	5.00	10.0
127-18-4	Tetrachloroethylene	U	1.00	ug/L	0.450	1.00	1.00
124-48-1	Dibromochloromethane	U	1.00	ug/L	0.260	1.00	1.00
108-90-7	Chlorobenzene	U	1.00	ug/L	0.250	1.00	1.00
100-41-4	Ethylbenzene	U	1.00	ug/L	0.250	1.00	1.00
9999000760	m,p-Xylenes	U	2.00	ug/L	0.430	2.00	2.00
179601-23-1							
95-47-6	o-Xylene	U	1.00	ug/L	0.250	1.00	1.00
100-42-5	Styrene	U	1.00	ug/L	0.250	1.00	1.00
75-25-2	Bromoform	U	1.00	ug/L	0.250	1.00	1.00
79-34-5	1,1,2,2-Tetrachloroethane	U	1.00	ug/L	0.250	1.00	1.00

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	**224133**	**Date Collected:**	**02/06/2009 12:00**	**Matrix:**	**WG**
Lab Sample ID:	**224133004**	**Date Received:**	**02/06/2009 15:30**		
		Client:	**CH2M028**	**Project:**	**CH2M01007**
Client ID:	**NS2TR001T1**	**Method:**	**SW846 8260B**	**SOP Ref:**	**GL-OA-E-038**
Batch ID:	**843092**	**Inst:**	**VOA5.I**	**Dilution:**	**1**
Run Date:	**02/18/2009 19:57**	**Analyst:**	**DXK1**	**Purge Vol:**	**5 mL**
Prep Date:	**02/18/2009 19:57**				
Data File:	**5y314.d**	**Column:**	**DB-624**	**Level:**	**LOW**

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	RDL
541-73-1	1,3-Dichlorobenzene	U	1.00	ug/L	0.250	1.00	1.00
106-46-7	1,4-Dichlorobenzene	U	1.00	ug/L	0.250	1.00	1.00
91-20-3	Naphthalene	U	1.00	ug/L	0.250	1.00	10.0
87-61-6	1,2,3-Trichlorobenzene	U	1.00	ug/L	0.332	1.00	1.00
540-59-0	1,2-Dichloroethylene (total)	U	1.00	ug/L	0.300	1.00	1.00
1330-20-7	Xylenes (total)	U	1.00	ug/L	0.600	1.00	3.00
120-82-1	1,2,4-Trichlorobenzene	U	1.00	ug/L	0.300	1.00	1.00
95-50-1	1,2-Dichlorobenzene	U	1.00	ug/L	0.250	1.00	1.00

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	**224133**	**Date Collected:**	**02/06/2009 10:40**	**Matrix:**	**WG**
Lab Sample ID:	**224133001**	**Date Received:**	**02/06/2009 15:30**		
		Client:	**CH2M028**	**Project:**	**CH2M01007**
Client ID:	**NS2TW001T1**	**Method:**	**SW846 8260B**	**SOP Ref:**	**GL-OA-E-038**
Batch ID:	**843092**	**Inst:**	**VOA5.I**	**Dilution:**	**1**
Run Date:	**02/18/2009 18:40**	**Analyst:**	**DXK1**	**Purge Vol:**	**5 mL**
Prep Date:	**02/18/2009 18:40**				
Data File:	**5y311.d**	**Column:**	**DB-624**	**Level:**	**LOW**

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	RDL
74-87-3	Chloromethane	U	1.00	ug/L	0.300	1.00	1.00
75-01-4	Vinyl chloride	U	1.00	ug/L	0.500	1.00	1.00
74-83-9	Bromomethane	U	1.00	ug/L	0.500	1.00	1.00
75-00-3	Chloroethane	U	1.00	ug/L	0.300	1.00	1.00
67-64-1	Acetone		14.9	ug/L	1.50	5.00	10.0
75-35-4	1,1-Dichloroethylene	U	1.00	ug/L	0.300	1.00	1.00
75-09-2	Methylene chloride	U	5.00	ug/L	2.00	5.00	5.00
75-15-0	Carbon disulfide	U	5.00	ug/L	1.25	5.00	5.00
156-60-5	trans-1,2-Dichloroethylene	U	1.00	ug/L	0.300	1.00	1.00
108-05-4	Vinyl acetate	U	5.00	ug/L	1.50	5.00	10.0
75-34-3	1,1-Dichloroethane	U	1.00	ug/L	0.300	1.00	1.00
78-93-3	2-Butanone	U	5.00	ug/L	1.25	5.00	10.0
156-59-2	cis-1,2-Dichloroethylene	U	1.00	ug/L	0.300	1.00	1.00
67-66-3	Chloroform	U	1.00	ug/L	0.250	1.00	1.00
71-55-6	1,1,1-Trichloroethane	U	1.00	ug/L	0.325	1.00	1.00
56-23-5	Carbon tetrachloride	U	1.00	ug/L	0.260	1.00	1.00
107-06-2	1,2-Dichloroethane	U	1.00	ug/L	0.250	1.00	1.00
71-43-2	Benzene	U	1.00	ug/L	0.300	1.00	1.00
79-01-6	Trichloroethylene	U	1.00	ug/L	0.250	1.00	1.00
78-87-5	1,2-Dichloropropane	U	1.00	ug/L	0.250	1.00	1.00
75-27-4	Bromodichloromethane	U	1.00	ug/L	0.250	1.00	1.00
110-75-8	2-Chloroethylvinyl ether	U	5.00	ug/L	1.50	5.00	10.0
108-10-1	4-Methyl-2-pentanone	U	5.00	ug/L	1.25	5.00	10.0
10061-01-5	cis-1,3-Dichloropropene	U	1.00	ug/L	0.250	1.00	1.00
	cis-1,3-Dichloropropylene						
108-88-3	Toluene	U	1.00	ug/L	0.250	1.00	1.00
10061-02-6	trans-1,3-Dichloropropene	U	1.00	ug/L	0.250	1.00	1.00
	trans-1,3-Dichloropropylene						
79-00-5	1,1,2-Trichloroethane	U	1.00	ug/L	0.250	1.00	1.00
591-78-6	2-Hexanone	U	5.00	ug/L	1.25	5.00	10.0
127-18-4	Tetrachloroethylene	U	1.00	ug/L	0.450	1.00	1.00
124-48-1	Dibromochloromethane	U	1.00	ug/L	0.260	1.00	1.00
108-90-7	Chlorobenzene	U	1.00	ug/L	0.250	1.00	1.00
100-41-4	Ethylbenzene	U	1.00	ug/L	0.250	1.00	1.00
9999000760	m,p-Xylenes	U	2.00	ug/L	0.430	2.00	2.00
179601-23-1							
95-47-6	o-Xylene	U	1.00	ug/L	0.250	1.00	1.00
100-42-5	Styrene	U	1.00	ug/L	0.250	1.00	1.00
75-25-2	Bromoform	U	1.00	ug/L	0.250	1.00	1.00
79-34-5	1,1,2,2-Tetrachloroethane	U	1.00	ug/L	0.250	1.00	1.00

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	**224133**	**Date Collected:**	**02/06/2009 10:40**	**Matrix:**	**WG**
Lab Sample ID:	**224133001**	**Date Received:**	**02/06/2009 15:30**		
		Client:	**CH2M028**	**Project:**	**CH2M01007**
Client ID:	**NS2TW001T1**	**Method:**	**SW846 8260B**	**SOP Ref:**	**GL-OA-E-038**
Batch ID:	**843092**	**Inst:**	**VOA5.I**	**Dilution:**	**1**
Run Date:	**02/18/2009 18:40**	**Analyst:**	**DXK1**	**Purge Vol:**	**5 mL**
Prep Date:	**02/18/2009 18:40**				
Data File:	**5y311.d**	**Column:**	**DB-624**	**Level:**	**LOW**

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	RDL
541-73-1	1,3-Dichlorobenzene	U	1.00	ug/L	0.250	1.00	1.00
106-46-7	1,4-Dichlorobenzene	U	1.00	ug/L	0.250	1.00	1.00
91-20-3	Naphthalene	E	25.5	ug/L	0.250	1.00	10.0
87-61-6	1,2,3-Trichlorobenzene	U	1.00	ug/L	0.332	1.00	1.00
540-59-0	1,2-Dichloroethylene (total)	U	1.00	ug/L	0.300	1.00	1.00
1330-20-7	Xylenes (total)	U	1.00	ug/L	0.600	1.00	3.00
120-82-1	1,2,4-Trichlorobenzene	U	1.00	ug/L	0.300	1.00	1.00
95-50-1	1,2-Dichlorobenzene	J	0.275	ug/L	0.250	1.00	1.00

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	**224133**	**Date Collected:**	**02/06/2009 10:40**	**Matrix:**	**WG**
Lab Sample ID:	**224133001**	**Date Received:**	**02/06/2009 15:30**		
		Client:	**CH2M028**	**Project:**	**CH2M01007**
Client ID:	**NS2TW001T1DL**	**Method:**	**SW846 8260B**	**SOP Ref:**	**GL-OA-E-038**
Batch ID:	**843092**	**Inst:**	**VOA5.I**	**Dilution:**	**2**
Run Date:	**02/19/2009 12:12**	**Analyst:**	**DXK1**	**Purge Vol:**	**5 mL**
Prep Date:	**02/19/2009 12:12**				
Data File:	**5y407.d**	**Column:**	**DB-624**	**Level:**	**LOW**

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	RDL
74-87-3	Chloromethane	U	2.00	ug/L	0.600	2.00	1.00
75-01-4	Vinyl chloride	U	2.00	ug/L	1.00	2.00	1.00
74-83-9	Bromomethane	U	2.00	ug/L	1.00	2.00	1.00
75-00-3	Chloroethane	U	2.00	ug/L	0.600	2.00	1.00
67-64-1	Acetone		10.2	ug/L	3.00	10.0	10.0
75-35-4	1,1-Dichloroethylene	U	2.00	ug/L	0.600	2.00	1.00
75-09-2	Methylene chloride	U	10.0	ug/L	4.00	10.0	5.00
75-15-0	Carbon disulfide	U	10.0	ug/L	2.50	10.0	5.00
156-60-5	trans-1,2-Dichloroethylene	U	2.00	ug/L	0.600	2.00	1.00
108-05-4	Vinyl acetate	U	10.0	ug/L	3.00	10.0	10.0
75-34-3	1,1-Dichloroethane	U	2.00	ug/L	0.600	2.00	1.00
78-93-3	2-Butanone	U	10.0	ug/L	2.50	10.0	10.0
156-59-2	cis-1,2-Dichloroethylene	U	2.00	ug/L	0.600	2.00	1.00
67-66-3	Chloroform	U	2.00	ug/L	0.500	2.00	1.00
71-55-6	1,1,1-Trichloroethane	U	2.00	ug/L	0.650	2.00	1.00
56-23-5	Carbon tetrachloride	U	2.00	ug/L	0.520	2.00	1.00
107-06-2	1,2-Dichloroethane	U	2.00	ug/L	0.500	2.00	1.00
71-43-2	Benzene	U	2.00	ug/L	0.600	2.00	1.00
79-01-6	Trichloroethylene	U	2.00	ug/L	0.500	2.00	1.00
78-87-5	1,2-Dichloropropane	U	2.00	ug/L	0.500	2.00	1.00
75-27-4	Bromodichloromethane	U	2.00	ug/L	0.500	2.00	1.00
110-75-8	2-Chloroethylvinyl ether	U	10.0	ug/L	3.00	10.0	10.0
108-10-1	4-Methyl-2-pentanone	U	10.0	ug/L	2.50	10.0	10.0
10061-01-5	cis-1,3-Dichloropropene	U	2.00	ug/L	0.500	2.00	1.00
	cis-1,3-Dichloropropylene						
108-88-3	Toluene	U	2.00	ug/L	0.500	2.00	1.00
10061-02-6	trans-1,3-Dichloropropene	U	2.00	ug/L	0.500	2.00	1.00
	trans-1,3-Dichloropropylene						
79-00-5	1,1,2-Trichloroethane	U	2.00	ug/L	0.500	2.00	1.00
591-78-6	2-Hexanone	U	10.0	ug/L	2.50	10.0	10.0
127-18-4	Tetrachloroethylene	U	2.00	ug/L	0.900	2.00	1.00
124-48-1	Dibromochloromethane	U	2.00	ug/L	0.520	2.00	1.00
108-90-7	Chlorobenzene	U	2.00	ug/L	0.500	2.00	1.00
100-41-4	Ethylbenzene	U	2.00	ug/L	0.500	2.00	1.00
9999000760	m,p-Xylenes	U	4.00	ug/L	0.860	4.00	2.00
179601-23-1							
95-47-6	o-Xylene	U	2.00	ug/L	0.500	2.00	1.00
100-42-5	Styrene	U	2.00	ug/L	0.500	2.00	1.00
75-25-2	Bromoform	U	2.00	ug/L	0.500	2.00	1.00
79-34-5	1,1,2,2-Tetrachloroethane	U	2.00	ug/L	0.500	2.00	1.00

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	**224133**	**Date Collected:**	**02/06/2009 10:40**	**Matrix:**	**WG**
Lab Sample ID:	**224133001**	**Date Received:**	**02/06/2009 15:30**		
		Client:	**CH2M028**	**Project:**	**CH2M01007**
Client ID:	**NS2TW001T1DL**	**Method:**	**SW846 8260B**	**SOP Ref:**	**GL-OA-E-038**
Batch ID:	**843092**	**Inst:**	**VOA5.I**	**Dilution:**	**2**
Run Date:	**02/19/2009 12:12**	**Analyst:**	**DXK1**	**Purge Vol:**	**5 mL**
Prep Date:	**02/19/2009 12:12**				
Data File:	**5y407.d**	**Column:**	**DB-624**	**Level:**	**LOW**

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	RDL
541-73-1	1,3-Dichlorobenzene	U	2.00	ug/L	0.500	2.00	1.00
106-46-7	1,4-Dichlorobenzene	U	2.00	ug/L	0.500	2.00	1.00
91-20-3	Naphthalene		21.9	ug/L	0.500	2.00	10.0
87-61-6	1,2,3-Trichlorobenzene	U	2.00	ug/L	0.664	2.00	1.00
540-59-0	1,2-Dichloroethylene (total)	U	2.00	ug/L	0.600	2.00	1.00
1330-20-7	Xylenes (total)	U	2.00	ug/L	1.20	2.00	3.00
120-82-1	1,2,4-Trichlorobenzene	U	2.00	ug/L	0.600	2.00	1.00
95-50-1	1,2-Dichlorobenzene	U	2.00	ug/L	0.500	2.00	1.00

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	224133	**Date Collected:**	02/06/2009 11:22	**Matrix:**	WG
Lab Sample ID:	224133002	**Date Received:**	02/06/2009 15:30		
		Client:	CH2M028	**Project:**	CH2M01007
Client ID:	NS2TW002T1	**Method:**	SW846 8260B	**SOP Ref:**	GL-OA-E-038
Batch ID:	843092	**Inst:**	VOA5.I	**Dilution:**	1
Run Date:	02/18/2009 19:06	**Analyst:**	DXK1	**Purge Vol:**	5 mL
Prep Date:	02/18/2009 19:06				
Data File:	5y312.d	**Column:**	DB-624	**Level:**	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	RDL
74-87-3	Chloromethane	U	1.00	ug/L	0.300	1.00	1.00
75-01-4	Vinyl chloride	U	1.00	ug/L	0.500	1.00	1.00
74-83-9	Bromomethane	U	1.00	ug/L	0.500	1.00	1.00
75-00-3	Chloroethane	U	1.00	ug/L	0.300	1.00	1.00
67-64-1	Acetone	U	5.00	ug/L	1.50	5.00	10.0
75-35-4	1,1-Dichloroethylene	U	1.00	ug/L	0.300	1.00	1.00
75-09-2	Methylene chloride	U	5.00	ug/L	2.00	5.00	5.00
75-15-0	Carbon disulfide	U	5.00	ug/L	1.25	5.00	5.00
156-60-5	trans-1,2-Dichloroethylene	U	1.00	ug/L	0.300	1.00	1.00
108-05-4	Vinyl acetate	U	5.00	ug/L	1.50	5.00	10.0
75-34-3	1,1-Dichloroethane	U	1.00	ug/L	0.300	1.00	1.00
78-93-3	2-Butanone	U	5.00	ug/L	1.25	5.00	10.0
156-59-2	cis-1,2-Dichloroethylene	U	1.00	ug/L	0.300	1.00	1.00
67-66-3	Chloroform	U	1.00	ug/L	0.250	1.00	1.00
71-55-6	1,1,1-Trichloroethane	U	1.00	ug/L	0.325	1.00	1.00
56-23-5	Carbon tetrachloride	U	1.00	ug/L	0.260	1.00	1.00
107-06-2	1,2-Dichloroethane	U	1.00	ug/L	0.250	1.00	1.00
71-43-2	Benzene	U	1.00	ug/L	0.300	1.00	1.00
79-01-6	Trichloroethylene	U	1.00	ug/L	0.250	1.00	1.00
78-87-5	1,2-Dichloropropane	U	1.00	ug/L	0.250	1.00	1.00
75-27-4	Bromodichloromethane	U	1.00	ug/L	0.250	1.00	1.00
110-75-8	2-Chloroethylvinyl ether	U	5.00	ug/L	1.50	5.00	10.0
108-10-1	4-Methyl-2-pentanone	U	5.00	ug/L	1.25	5.00	10.0
10061-01-5	cis-1,3-Dichloropropene *cis-1,3-Dichloropropylene*	U	1.00	ug/L	0.250	1.00	1.00
108-88-3	Toluene	U	1.00	ug/L	0.250	1.00	1.00
10061-02-6	trans-1,3-Dichloropropene *trans-1,3-Dichloropropylene*	U	1.00	ug/L	0.250	1.00	1.00
79-00-5	1,1,2-Trichloroethane	U	1.00	ug/L	0.250	1.00	1.00
591-78-6	2-Hexanone	U	5.00	ug/L	1.25	5.00	10.0
127-18-4	Tetrachloroethylene	U	1.00	ug/L	0.450	1.00	1.00
124-48-1	Dibromochloromethane	U	1.00	ug/L	0.260	1.00	1.00
108-90-7	Chlorobenzene	U	1.00	ug/L	0.250	1.00	1.00
100-41-4	Ethylbenzene	J	0.650	ug/L	0.250	1.00	1.00
9999000760	m,p-Xylenes	U	2.00	ug/L	0.430	2.00	2.00
179601-23-1 95-47-6	o-Xylene	J	0.513	ug/L	0.250	1.00	1.00
100-42-5	Styrene	U	1.00	ug/L	0.250	1.00	1.00
75-25-2	Bromoform	U	1.00	ug/L	0.250	1.00	1.00
79-34-5	1,1,2,2-Tetrachloroethane	U	1.00	ug/L	0.250	1.00	1.00

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	**224133**	**Date Collected:**	**02/06/2009 11:22**	**Matrix:**	**WG**
Lab Sample ID:	**224133002**	**Date Received:**	**02/06/2009 15:30**		
		Client:	**CH2M028**	**Project:**	**CH2M01007**
Client ID:	**NS2TW002T1**	**Method:**	**SW846 8260B**	**SOP Ref:**	**GL-OA-E-038**
Batch ID:	**843092**	**Inst:**	**VOA5.I**	**Dilution:**	**1**
Run Date:	**02/18/2009 19:06**	**Analyst:**	**DXK1**	**Purge Vol:**	**5 mL**
Prep Date:	**02/18/2009 19:06**				
Data File:	**5y312.d**	**Column:**	**DB-624**	**Level:**	**LOW**

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	RDL
541-73-1	1,3-Dichlorobenzene	U	1.00	ug/L	0.250	1.00	1.00
106-46-7	1,4-Dichlorobenzene	U	1.00	ug/L	0.250	1.00	1.00
91-20-3	Naphthalene	E	21.8	ug/L	0.250	1.00	10.0
87-61-6	1,2,3-Trichlorobenzene	U	1.00	ug/L	0.332	1.00	1.00
540-59-0	1,2-Dichloroethylene (total)	U	1.00	ug/L	0.300	1.00	1.00
1330-20-7	Xylenes (total)	U	1.00	ug/L	0.600	1.00	3.00
120-82-1	1,2,4-Trichlorobenzene	U	1.00	ug/L	0.300	1.00	1.00
95-50-1	1,2-Dichlorobenzene	U	1.00	ug/L	0.250	1.00	1.00

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	**224133**	**Date Collected:**	**02/06/2009 11:22**	**Matrix:**	**WG**
Lab Sample ID:	**224133002**	**Date Received:**	**02/06/2009 15:30**		
		Client:	**CH2M028**	**Project:**	**CH2M01007**
Client ID:	**NS2TW002T1DL**	**Method:**	**SW846 8260B**	**SOP Ref:**	**GL-OA-E-038**
Batch ID:	**843092**	**Inst:**	**VOA5.I**	**Dilution:**	**2**
Run Date:	**02/19/2009 12:38**	**Analyst:**	**DXK1**	**Purge Vol:**	**5 mL**
Prep Date:	**02/19/2009 12:38**				
Data File:	**5y408.d**	**Column:**	**DB-624**	**Level:**	**LOW**

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	RDL
74-87-3	Chloromethane	U	2.00	ug/L	0.600	2.00	1.00
75-01-4	Vinyl chloride	U	2.00	ug/L	1.00	2.00	1.00
74-83-9	Bromomethane	U	2.00	ug/L	1.00	2.00	1.00
75-00-3	Chloroethane	U	2.00	ug/L	0.600	2.00	1.00
67-64-1	Acetone	U	10.0	ug/L	3.00	10.0	10.0
75-35-4	1,1-Dichloroethylene	U	2.00	ug/L	0.600	2.00	1.00
75-09-2	Methylene chloride	U	10.0	ug/L	4.00	10.0	5.00
75-15-0	Carbon disulfide	U	10.0	ug/L	2.50	10.0	5.00
156-60-5	trans-1,2-Dichloroethylene	U	2.00	ug/L	0.600	2.00	1.00
108-05-4	Vinyl acetate	U	10.0	ug/L	3.00	10.0	10.0
75-34-3	1,1-Dichloroethane	U	2.00	ug/L	0.600	2.00	1.00
78-93-3	2-Butanone	U	10.0	ug/L	2.50	10.0	10.0
156-59-2	cis-1,2-Dichloroethylene	U	2.00	ug/L	0.600	2.00	1.00
67-66-3	Chloroform	U	2.00	ug/L	0.500	2.00	1.00
71-55-6	1,1,1-Trichloroethane	U	2.00	ug/L	0.650	2.00	1.00
56-23-5	Carbon tetrachloride	U	2.00	ug/L	0.520	2.00	1.00
107-06-2	1,2-Dichloroethane	U	2.00	ug/L	0.500	2.00	1.00
71-43-2	Benzene	U	2.00	ug/L	0.600	2.00	1.00
79-01-6	Trichloroethylene	U	2.00	ug/L	0.500	2.00	1.00
78-87-5	1,2-Dichloropropane	U	2.00	ug/L	0.500	2.00	1.00
75-27-4	Bromodichloromethane	U	2.00	ug/L	0.500	2.00	1.00
110-75-8	2-Chloroethylvinyl ether	U	10.0	ug/L	3.00	10.0	10.0
108-10-1	4-Methyl-2-pentanone	U	10.0	ug/L	2.50	10.0	10.0
10061-01-5	cis-1,3-Dichloropropene	U	2.00	ug/L	0.500	2.00	1.00
108-88-3	*cis-1,3-Dichloropropylene* Toluene	U	2.00	ug/L	0.500	2.00	1.00
10061-02-6	trans-1,3-Dichloropropene	U	2.00	ug/L	0.500	2.00	1.00
79-00-5	*trans-1,3-Dichloropropylene* 1,1,2-Trichloroethane	U	2.00	ug/L	0.500	2.00	1.00
591-78-6	2-Hexanone	U	10.0	ug/L	2.50	10.0	10.0
127-18-4	Tetrachloroethylene	U	2.00	ug/L	0.900	2.00	1.00
124-48-1	Dibromochloromethane	U	2.00	ug/L	0.520	2.00	1.00
108-90-7	Chlorobenzene	U	2.00	ug/L	0.500	2.00	1.00
100-41-4	Ethylbenzene	J	0.655	ug/L	0.500	2.00	1.00
9999000760	m,p-Xylenes	U	4.00	ug/L	0.860	4.00	2.00
179601-23-1 95-47-6	o-Xylene	J	0.524	ug/L	0.500	2.00	1.00
100-42-5	Styrene	U	2.00	ug/L	0.500	2.00	1.00
75-25-2	Bromoform	U	2.00	ug/L	0.500	2.00	1.00
79-34-5	1,1,2,2-Tetrachloroethane	U	2.00	ug/L	0.500	2.00	1.00

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	**224133**	**Date Collected:**	**02/06/2009 11:22**	**Matrix:**	**WG**
Lab Sample ID:	**224133002**	**Date Received:**	**02/06/2009 15:30**		
		Client:	**CH2M028**	**Project:**	**CH2M01007**
Client ID:	**NS2TW002T1DL**	**Method:**	**SW846 8260B**	**SOP Ref:**	**GL-OA-E-038**
Batch ID:	**843092**	**Inst:**	**VOA5.I**	**Dilution:**	**2**
Run Date:	**02/19/2009 12:38**	**Analyst:**	**DXK1**	**Purge Vol:**	**5 mL**
Prep Date:	**02/19/2009 12:38**				
Data File:	**5y408.d**	**Column:**	**DB-624**	**Level:**	**LOW**

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	RDL
541-73-1	1,3-Dichlorobenzene	U	2.00	ug/L	0.500	2.00	1.00
106-46-7	1,4-Dichlorobenzene	U	2.00	ug/L	0.500	2.00	1.00
91-20-3	Naphthalene		29.9	ug/L	0.500	2.00	10.0
87-61-6	1,2,3-Trichlorobenzene	U	2.00	ug/L	0.664	2.00	1.00
540-59-0	1,2-Dichloroethylene (total)	U	2.00	ug/L	0.600	2.00	1.00
1330-20-7	Xylenes (total)	U	2.00	ug/L	1.20	2.00	3.00
120-82-1	1,2,4-Trichlorobenzene	U	2.00	ug/L	0.600	2.00	1.00
95-50-1	1,2-Dichlorobenzene	U	2.00	ug/L	0.500	2.00	1.00

QC Summary

Volatile

Surrogate Recovery Report

SDG Number: 224133

Matrix Type: LIQUID

CAP Column (1) : DB-624

Sample ID	Client ID	DCED4 %REC	TOL %REC	BFB %REC
1201780777	LCS for batch 843092	99	98	99
1201780772	MB for batch 843092	98	98	100
224133001	NS2TW001T1	94	96	97
224133002	NS2TW002T1	96	97	98
224133003	NS2EW001T1	97	100	100
224133004	NS2TR001T1	100	101	103
1201780774	NS2TW001T1||PS	90	97	98
1201780776	NS2TW001T1||PSD	99	101	99
1201782623	LCS for batch 843092	97	101	100
1201782622	MB for batch 843092	96	100	103
224133001	NS2TW001T1DL	96 D	99 D	103 D
224133002	NS2TW002T1DL	98 D	99 D	100 D

Surrogate		Acceptance Limits
DCED4	= 1,2-Dichloroethane-d4	(80%-120%)
TOL	= Toluene-d8	(80%-120%)
BFB	= Bromofluorobenzene	(80%-120%)

* Recovery outside Acceptance Limits

\# Column to be used to flag recovery values

D Sample Diluted

Volatile

Quality Control Summary
Spike Recovery Report

SDG Number: 224133 **Sample Type:** Post Spike

Client ID: 039IDW01U1||PS **Matrix:** WG

Lab Sample ID: 1201780773

Instrument: VOA5.I **Analysis Date:** 02/18/2009 21:39 **Dilution:** 1

Analyst: DXK1 **Prep Batch ID:** 843092

Purge Vol: 5 mL **Batch ID:** 843092

CAS No		Parmname	Amount Added ug/L	Sample Conc. ug/L		Spike Conc. ug/L	Recovery %	Acceptance Limits
74-87-3	PS	Chloromethane	50.0	0.00	U	43.9	88	56-131
75-01-4	PS	Vinyl chloride	50.0	0.00	U	47.6	95	50-134
74-83-9	PS	Bromomethane	50.0	0.00	U	46.2	92	53-141
75-00-3	PS	Chloroethane	50.0	0.00	U	48.5	97	58-133
67-64-1	PS	Acetone	250	16.1		244	91	40-135
75-35-4	PS	1,1-Dichloroethylene	50.0	0.00	U	50.0	100	68-130
75-09-2	PS	Methylene chloride	50.0	0.00	U	50.0	100	63-137
75-15-0	PS	Carbon disulfide	250	0.00	U	266	106	70-126
156-60-5	PS	trans-1,2-Dichloroethylene	50.0	0.00	U	48.6	97	63-137
108-05-4	PS	Vinyl acetate	250	0.00	U	142	57 *	64-140
75-34-3	PS	1,1-Dichloroethane	50.0	1.23		50.0	97	69-133
78-93-3	PS	2-Butanone	250	0.00	U	470	188 *	49-136
156-59-2	PS	cis-1,2-Dichloroethylene	50.0	0.00	U	60.2	120	72-126
67-66-3	PS	Chloroform	50.0	0.00	U	46.9	94	69-128
71-55-6	PS	1,1,1-Trichloroethane	50.0	0.00	U	49.3	99	67-132
56-23-5	PS	Carbon tetrachloride	50.0	0.00	U	50.5	101	66-138
107-06-2	PS	1,2-Dichloroethane	50.0	0.00	U	44.0	88	69-132
71-43-2	PS	Benzene	50.0	0.00	U	48.7	97	81-122
79-01-6	PS	Trichloroethylene	50.0	0.515	J	50.0	99	70-127
78-87-5	PS	1,2-Dichloropropane	50.0	0.00	U	49.1	98	75-125
75-27-4	PS	Bromodichloromethane	50.0	0.00	U	46.2	92	76-121
110-75-8	PS	2-Chloroethylvinyl ether	250	0.00	U	68.9	28 *	52-120

Volatile

Quality Control Summary
Spike Recovery Report

SDG Number: 224133 **Sample Type:** Post Spike

Client ID: 039IDW01U1||PS **Matrix:** WG

Lab Sample ID: 1201780773

Instrument: VOA5.I **Analysis Date:** 02/18/2009 21:39 **Dilution:** 1

Analyst: DXK1 **Prep Batch ID** 843092

Purge Vol: 5 mL **Batch ID:** 843092

CAS No		Parmname	Amount Added ug/L	Sample Conc. ug/L		Spike Conc. ug/L	Recovery %	Acceptance Limits
108-10-1	PS	4-Methyl-2-pentanone	250	0.00	U	249	100	65-135
10061-01-5	PS	cis-1,3-Dichloropropene *cis-1,3-Dichloropropylene*	50.0	0.00	U	49.6	99	69-131
108-88-3	PS	Toluene	50.0	0.00	U	48.3	97	77-122
10061-02-6	PS	trans-1,3-Dichloropropene *trans-1,3-Dichloropropylene*	50.0	0.00	U	49.1	98	59-135
79-00-5	PS	1,1,2-Trichloroethane	50.0	0.00	U	48.0	96	75-125
591-78-6	PS	2-Hexanone	250	0.00	U	206	82	65-135
127-18-4	PS	Tetrachloroethylene	50.0	0.00	U	49.2	98	66-128
124-48-1	PS	Dibromochloromethane	50.0	0.00	U	49.8	100	66-133
108-90-7	PS	Chlorobenzene	50.0	0.00	U	49.2	98	81-122
100-41-4	PS	Ethylbenzene	50.0	0.00	U	49.4	99	70-130
179601-23-1	PS	m,p-Xylenes	100	0.00	U	98.3	98	75-118
95-47-6	PS	o-Xylene	50.0	0.00	U	49.5	99	76-118
100-42-5	PS	Styrene	50.0	0.00	U	50.7	101	65-134
75-25-2	PS	Bromoform	50.0	0.00	U	52.7	105	69-128
79-34-5	PS	1,1,2,2-Tetrachloroethane	50.0	0.00	U	49.4	99	63-128
541-73-1	PS	1,3-Dichlorobenzene	50.0	0.00	U	48.5	97	75-124
106-46-7	PS	1,4-Dichlorobenzene	50.0	0.00	U	47.4	95	74-123
91-20-3	PS	Naphthalene	50.0	0.00	U	36.1	72	65-134
87-61-6	PS	1,2,3-Trichlorobenzene	50.0	0.00	U	28.7	57 *	67-133
540-59-0	PS	1,2-Dichloroethylene (total)	100	0.00	U	109	109	76-122
1330-20-7	PS	Xylenes (total)	150	0.00	U	148	99	70-130
120-82-1	PS	1,2,4-Trichlorobenzene	50.0	0.00	U	39.1	78	66-134

Volatile

Quality Control Summary
Spike Recovery Report

SDG Number: 224133
Client ID: 039IDW01U1||PSD
Lab Sample ID: 1201780775
Instrument: VOA5.I
Analyst: DXK1
Purge Vol: 5 mL

Sample Type: Post Spike Duplicate
Matrix: WG
Analysis Date: 02/18/2009 22:05
Dilution: 1
Prep Batch ID: 843092
Batch ID: 843092

CAS No		Parmname	Amount Added ug/L	Sample Conc. ug/L		Spike Conc. ug/L	Recovery %	Acceptance Limits	RPD %	Acceptance Limits
108-10-1	PSD	4-Methyl-2-pentanone	250	0.00	U	265	106	65-135	6	0-20
10061-01-5	PSD	cis-1,3-Dichloropropene *cis-1,3-Dichloropropylene*	50.0	0.00	U	51.0	102	69-131	3	0-20
108-88-3	PSD	Toluene	50.0	0.00	U	49.4	99	77-122	2	0-20
10061-02-6	PSD	trans-1,3-Dichloropropene *trans-1,3-Dichloropropylene*	50.0	0.00	U	50.7	101	59-135	3	0-20
79-00-5	PSD	1,1,2-Trichloroethane	50.0	0.00	U	50.4	101	75-125	5	0-20
591-78-6	PSD	2-Hexanone	250	0.00	U	222	89	65-135	7	0-20
127-18-4	PSD	Tetrachloroethylene	50.0	0.00	U	50.1	100	66-128	2	0-20
124-48-1	PSD	Dibromochloromethane	50.0	0.00	U	53.2	106	66-133	7	0-20
108-90-7	PSD	Chlorobenzene	50.0	0.00	U	50.4	101	81-122	2	0-20
100-41-4	PSD	Ethylbenzene	50.0	0.00	U	50.5	101	70-130	2	0-20
179601-23-1	PSD	m,p-Xylenes	100	0.00	U	101	101	75-118	3	0-20
95-47-6	PSD	o-Xylene	50.0	0.00	U	51.1	102	76-118	3	0-20
100-42-5	PSD	Styrene	50.0	0.00	U	53.3	107	65-134	5	0-20
75-25-2	PSD	Bromoform	50.0	0.00	U	56.9	114	69-128	8	0-20
79-34-5	PSD	1,1,2,2-Tetrachloroethane	50.0	0.00	U	54.2	108	63-128	9	0-20
541-73-1	PSD	1,3-Dichlorobenzene	50.0	0.00	U	52.0	104	75-124	7	0-20
106-46-7	PSD	1,4-Dichlorobenzene	50.0	0.00	U	50.6	101	74-123	7	0-20
91-20-3	PSD	Naphthalene	50.0	0.00	U	41.3	83	65-134	14	0-20
87-61-6	PSD	1,2,3-Trichlorobenzene	50.0	0.00	U	33.1	66 *	67-133	14	0-20
540-59-0	PSD	1,2-Dichloroethylene (total)	100	0.00	U	98.2	98	76-122	10	0-20
1330-20-7	PSD	Xylenes (total)	150	0.00	U	152	102	70-130	3	0-20
120-82-1	PSD	1,2,4-Trichlorobenzene	50.0	0.00	U	44.7	89	66-134	13	0-20

Volatile

Quality Control Summary
Spike Recovery Report

SDG Number: 224133
Sample Type: Post Spike Duplicate
Client ID: 039IDW01U1||PSD
Matrix: WG
Lab Sample ID: 1201780775
Instrument: VOA5.I
Analysis Date: 02/18/2009 22:05
Dilution: 1
Analyst: DXK1
Prep Batch ID: 843092
Purge Vol: 5 mL
Batch ID: 843092

CAS No		Parmname	Amount Added ug/L	Sample Conc. ug/L		Spike Conc. ug/L	Recovery %	Acceptance Limits	RPD %	Acceptance Limits
95-50-1	PSD	1,2-Dichlorobenzene	50.0	0.00	U	51.7	103	71-122	9	0-20

Volatile

Quality Control Summary
Spike Recovery Report

SDG Number: 224133 **Sample Type:** Post Spike

Client ID: NS2TW001T1||PS **Matrix:** WG

Lab Sample ID: 1201780774

Instrument: VOA5.I **Analysis Date:** 02/18/2009 22:31 **Dilution:** 1

Analyst: DXK1 **Prep Batch ID:** 843092

Purge Vol: 5 mL **Batch ID:** 843092

CAS No		Parmname	Amount Added ug/L	Sample Conc. ug/L		Spike Conc. ug/L	Recovery %	Acceptance Limits
74-87-3	PS	Chloromethane	50.0	0.00	U	41.0	82	56-131
75-01-4	PS	Vinyl chloride	50.0	0.00	U	43.3	87	50-134
74-83-9	PS	Bromomethane	50.0	0.00	U	44.5	89	53-141
75-00-3	PS	Chloroethane	50.0	0.00	U	45.4	91	58-133
67-64-1	PS	Acetone	250	14.9		243	91	40-135
75-35-4	PS	1,1-Dichloroethylene	50.0	0.00	U	46.1	92	68-130
75-09-2	PS	Methylene chloride	50.0	0.00	U	49.9	100	63-137
75-15-0	PS	Carbon disulfide	250	0.00	U	248	99	70-126
156-60-5	PS	trans-1,2-Dichloroethylene	50.0	0.00	U	46.6	93	63-137
108-05-4	PS	Vinyl acetate	250	0.00	U	141	56 *	64-140
75-34-3	PS	1,1-Dichloroethane	50.0	0.00	U	47.1	94	69-133
78-93-3	PS	2-Butanone	250	0.00	U	240	96	49-136
156-59-2	PS	cis-1,2-Dichloroethylene	50.0	0.00	U	47.5	95	72-126
67-66-3	PS	Chloroform	50.0	0.00	U	45.5	91	69-128
71-55-6	PS	1,1,1-Trichloroethane	50.0	0.00	U	45.2	90	67-132
56-23-5	PS	Carbon tetrachloride	50.0	0.00	U	46.5	93	66-138
107-06-2	PS	1,2-Dichloroethane	50.0	0.00	U	44.1	88	69-132
71-43-2	PS	Benzene	50.0	0.00	U	47.5	95	81-122
79-01-6	PS	Trichloroethylene	50.0	0.00	U	47.1	94	70-127
78-87-5	PS	1,2-Dichloropropane	50.0	0.00	U	48.7	97	75-125
75-27-4	PS	Bromodichloromethane	50.0	0.00	U	46.5	93	76-121
110-75-8	PS	2-Chloroethylvinyl ether	250	0.00	U	68.1	27 *	52-120

Volatile

Quality Control Summary
Spike Recovery Report

SDG Number: 224133 **Sample Type:** Post Spike

Client ID: NS2TW001T1||PS **Matrix:** WG

Lab Sample ID: 1201780774

Instrument: VOA5.I **Analysis Date:** 02/18/2009 22:31 **Dilution:** 1

Analyst: DXK1 **Prep Batch ID:** 843092

Purge Vol: 5 mL **Batch ID:** 843092

CAS No		Parmname	Amount Added ug/L	Sample Conc. ug/L		Spike Conc. ug/L	Recovery %	Acceptance Limits
108-10-1	PS	4-Methyl-2-pentanone	250	0.00	U	250	100	65-135
10061-01-5	PS	cis-1,3-Dichloropropene *cis-1,3-Dichloropropylene*	50.0	0.00	U	50.3	101	69-131
108-88-3	PS	Toluene	50.0	0.00	U	47.1	94	77-122
10061-02-6	PS	trans-1,3-Dichloropropene *trans-1,3-Dichloropropylene*	50.0	0.00	U	49.4	99	59-135
79-00-5	PS	1,1,2-Trichloroethane	50.0	0.00	U	48.9	98	75-125
591-78-6	PS	2-Hexanone	250	0.00	U	207	83	65-135
127-18-4	PS	Tetrachloroethylene	50.0	0.00	U	45.7	91	66-128
124-48-1	PS	Dibromochloromethane	50.0	0.00	U	50.7	101	66-133
108-90-7	PS	Chlorobenzene	50.0	0.00	U	48.4	97	81-122
100-41-4	PS	Ethylbenzene	50.0	0.00	U	47.3	95	70-130
179601-23-1	PS	m,p-Xylenes	100	0.00	U	94.6	95	75-118
95-47-6	PS	o-Xylene	50.0	0.00	U	48.2	96	76-118
100-42-5	PS	Styrene	50.0	0.00	U	51.0	102	65-134
75-25-2	PS	Bromoform	50.0	0.00	U	52.8	106	69-128
79-34-5	PS	1,1,2,2-Tetrachloroethane	50.0	0.00	U	50.3	101	63-128
541-73-1	PS	1,3-Dichlorobenzene	50.0	0.00	U	48.2	96	75-124
106-46-7	PS	1,4-Dichlorobenzene	50.0	0.00	U	47.0	94	74-123
91-20-3	PS	Naphthalene	50.0	25.5	E	58.6	66	65-134
87-61-6	PS	1,2,3-Trichlorobenzene	50.0	0.00	U	31.7	63 *	67-133
540-59-0	PS	1,2-Dichloroethylene (total)	100	0.00	U	94.0	94	76-122
1330-20-7	PS	Xylenes (total)	150	0.00	U	143	95	70-130
120-82-1	PS	1,2,4-Trichlorobenzene	50.0	0.00	U	42.9	86	66-134

Volatile

Quality Control Summary
Spike Recovery Report

SDG Number: **224133**
Client ID: **NS2TW001T1||PS**
Lab Sample ID: **1201780774**
Instrument: **VOA5.I**
Analyst: **DXK1**
Purge Vol: **5 mL**

Sample Type: **Post Spike**
Matrix: **WG**
Analysis Date: **02/18/2009 22:31**
Dilution: 1
Prep Batch ID **843092**
Batch ID: **843092**

CAS No		Parmname	Amount Added ug/L	Sample Conc. ug/L		Spike Conc. ug/L	Recovery %	Acceptance Limits
95-50-1	PS	1,2-Dichlorobenzene	50.0	0.275	J	48.4	96	71-122

Volatile

Quality Control Summary
Spike Recovery Report

SDG Number: 224133
Client ID: NS2TW001T1||PSD
Lab Sample ID: 1201780776
Instrument: VOA5.I
Analyst: DXK1
Purge Vol: 5 mL

Sample Type: Post Spike Duplicate
Matrix: WG
Analysis Date: 02/18/2009 22:56
Prep Batch ID: 843092
Batch ID: 843092
Dilution: 1

CAS No		Parmname	Amount Added ug/L	Sample Conc. ug/L		Spike Conc. ug/L	Recovery %	Acceptance Limits	RPD %	Acceptance Limits
74-87-3	PSD	Chloromethane	50.0	0.00	U	43.5	87	56-131	6	0-20
75-01-4	PSD	Vinyl chloride	50.0	0.00	U	46.9	94	50-134	8	0-20
74-83-9	PSD	Bromomethane	50.0	0.00	U	46.1	92	53-141	3	0-20
75-00-3	PSD	Chloroethane	50.0	0.00	U	48.7	97	58-133	7	0-20
67-64-1	PSD	Acetone	250	14.9		290	110	40-135	17	0-20
75-35-4	PSD	1,1-Dichloroethylene	50.0	0.00	U	49.3	99	68-130	7	0-20
75-09-2	PSD	Methylene chloride	50.0	0.00	U	50.8	102	63-137	2	0-20
75-15-0	PSD	Carbon disulfide	250	0.00	U	267	107	70-126	8	0-20
156-60-5	PSD	trans-1,2-Dichloroethylene	50.0	0.00	U	49.3	99	63-137	6	0-20
108-05-4	PSD	Vinyl acetate	250	0.00	U	147	59 *	64-140	4	0-20
75-34-3	PSD	1,1-Dichloroethane	50.0	0.00	U	48.5	97	69-133	3	0-20
78-93-3	PSD	2-Butanone	250	0.00	U	284	114	49-136	17	0-20
156-59-2	PSD	cis-1,2-Dichloroethylene	50.0	0.00	U	48.8	98	72-126	3	0-20
67-66-3	PSD	Chloroform	50.0	0.00	U	46.8	94	69-128	3	0-20
71-55-6	PSD	1,1,1-Trichloroethane	50.0	0.00	U	48.3	97	67-132	7	0-20
56-23-5	PSD	Carbon tetrachloride	50.0	0.00	U	49.4	99	66-138	6	0-20
107-06-2	PSD	1,2-Dichloroethane	50.0	0.00	U	44.6	89	69-132	1	0-20
71-43-2	PSD	Benzene	50.0	0.00	U	49.5	99	81-122	4	0-20
79-01-6	PSD	Trichloroethylene	50.0	0.00	U	49.5	99	70-127	5	0-20
78-87-5	PSD	1,2-Dichloropropane	50.0	0.00	U	49.4	99	75-125	2	0-20
75-27-4	PSD	Bromodichloromethane	50.0	0.00	U	47.1	94	76-121	1	0-20
110-75-8	PSD	2-Chloroethylvinyl ether	250	0.00	U	69.1	28 *	52-120	2	0-20

Volatile

Quality Control Summary
Spike Recovery Report

SDG Number: 224133 **Sample Type:** Post Spike Duplicate

Client ID: NS2TW001T1||PSD **Matrix:** WG

Lab Sample ID: 1201780776

Instrument: VOA5.I **Analysis Date:** 02/18/2009 22:56 **Dilution:** 1

Analyst: DXK1 **Prep Batch ID:** 843092

Purge Vol: 5 mL **Batch ID:** 843092

CAS No		Parmname	Amount Added ug/L	Sample Conc. ug/L		Spike Conc. ug/L	Recovery %	Acceptance Limits	RPD %	Acceptance Limits
108-10-1	PSD	4-Methyl-2-pentanone	250	0.00	U	283	113	65-135	12	0-20
10061-01-5	PSD	cis-1,3-Dichloropropene *cis-1,3-Dichloropropylene*	50.0	0.00	U	50.3	101	69-131	0	0-20
108-88-3	PSD	Toluene	50.0	0.00	U	49.2	98	77-122	4	0-20
10061-02-6	PSD	trans-1,3-Dichloropropene *trans-1,3-Dichloropropylene*	50.0	0.00	U	49.9	100	59-135	1	0-20
79-00-5	PSD	1,1,2-Trichloroethane	50.0	0.00	U	50.4	101	75-125	3	0-20
591-78-6	PSD	2-Hexanone	250	0.00	U	240	96	65-135	15	0-20
127-18-4	PSD	Tetrachloroethylene	50.0	0.00	U	49.8	100	66-128	9	0-20
124-48-1	PSD	Dibromochloromethane	50.0	0.00	U	51.5	103	66-133	2	0-20
108-90-7	PSD	Chlorobenzene	50.0	0.00	U	49.7	99	81-122	3	0-20
100-41-4	PSD	Ethylbenzene	50.0	0.00	U	49.7	99	70-130	5	0-20
179601-23-1	PSD	m,p-Xylenes	100	0.00	U	99.2	99	75-118	5	0-20
95-47-6	PSD	o-Xylene	50.0	0.00	U	50.5	101	76-118	5	0-20
100-42-5	PSD	Styrene	50.0	0.00	U	52.2	104	65-134	2	0-20
75-25-2	PSD	Bromoform	50.0	0.00	U	54.0	108	69-128	2	0-20
79-34-5	PSD	1,1,2,2-Tetrachloroethane	50.0	0.00	U	53.6	107	63-128	6	0-20
541-73-1	PSD	1,3-Dichlorobenzene	50.0	0.00	U	48.2	96	75-124	0	0-20
106-46-7	PSD	1,4-Dichlorobenzene	50.0	0.00	U	46.9	94	74-123	0	0-20
91-20-3	PSD	Naphthalene	50.0	25.5	E	64.0	77	65-134	9	0-20
87-61-6	PSD	1,2,3-Trichlorobenzene	50.0	0.00	U	32.9	66 *	67-133	4	0-20
540-59-0	PSD	1,2-Dichloroethylene (total)	100	0.00	U	98.1	98	76-122	4	0-20
1330-20-7	PSD	Xylenes (total)	150	0.00	U	150	100	70-130	5	0-20
120-82-1	PSD	1,2,4-Trichlorobenzene	50.0	0.00	U	43.6	87	66-134	2	0-20

Volatile

Quality Control Summary
Spike Recovery Report

SDG Number: 224133
Client ID: NS2TW001T1||PSD
Lab Sample ID: 1201780776
Instrument: VOA5.I
Analyst: DXK1
Purge Vol: 5 mL

Sample Type: Post Spike Duplicate
Matrix: WG
Analysis Date: 02/18/2009 22:56
Prep Batch ID: 843092
Batch ID: 843092
Dilution: 1

CAS No	Parmname	Amount Added ug/L	Sample Conc. ug/L		Spike Conc. ug/L	Recovery %	Acceptance Limits	RPD %	Acceptance Limits
95-50-1	PSD 1,2-Dichlorobenzene	50.0	0.275	J	47.8	95	71-122	1	0-20

Volatile

Quality Control Summary
Spike Recovery Report

SDG Number: 224133
Client ID: LCS for batch 843092
Lab Sample ID: 1201780777
Instrument: VOA5.I
Analyst: DXK1
Purge Vol: 5 mL

Sample Type: Laboratory Control Sample
Matrix: WATER
Analysis Date: 02/18/2009 13:20
Dilution: 1
Prep Batch ID: 843092
Batch ID: 843092

CAS No		Parmname	Amount Added ug/L	Sample Conc. ug/L	Spike Conc. ug/L	Recovery %	Acceptance Limits
74-87-3	LCS	Chloromethane	50.0	0.0	47.0	94	56-131
75-01-4	LCS	Vinyl chloride	50.0	0.0	51.9	104	50-134
74-83-9	LCS	Bromomethane	50.0	0.0	50.7	101	53-141
75-00-3	LCS	Chloroethane	50.0	0.0	52.9	106	58-133
67-64-1	LCS	Acetone	250	0.0	229	92	40-135
75-35-4	LCS	1,1-Dichloroethylene	50.0	0.0	56.3	113	68-130
75-09-2	LCS	Methylene chloride	50.0	0.0	55.2	110	63-137
75-15-0	LCS	Carbon disulfide	250	0.0	295	118	70-126
156-60-5	LCS	trans-1,2-Dichloroethylene	50.0	0.0	54.8	110	63-137
108-05-4	LCS	Vinyl acetate	250	0.0	182	73	64-140
75-34-3	LCS	1,1-Dichloroethane	50.0	0.0	54.0	108	69-133
78-93-3	LCS	2-Butanone	250	0.0	239	96	49-136
156-59-2	LCS	cis-1,2-Dichloroethylene	50.0	0.0	55.0	110	72-126
67-66-3	LCS	Chloroform	50.0	0.0	51.9	104	69-128
71-55-6	LCS	1,1,1-Trichloroethane	50.0	0.0	57.0	114	67-132
56-23-5	LCS	Carbon tetrachloride	50.0	0.0	58.6	117	66-138
107-06-2	LCS	1,2-Dichloroethane	50.0	0.0	49.6	99	69-132
71-43-2	LCS	Benzene	50.0	0.0	53.8	108	81-122
79-01-6	LCS	Trichloroethylene	50.0	0.0	54.8	110	70-127
78-87-5	LCS	1,2-Dichloropropane	50.0	0.0	53.6	107	75-125
75-27-4	LCS	Bromodichloromethane	50.0	0.0	52.0	104	76-121
110-75-8	LCS	2-Chloroethylvinyl ether	250	0.0	221	88	52-120

Volatile

Quality Control Summary
Spike Recovery Report

SDG Number: 224133
Client ID: LCS for batch 843092
Lab Sample ID: 1201780777
Instrument: VOA5.I
Analyst: DXK1
Purge Vol: 5 mL

Sample Type: Laboratory Control Sample
Matrix: WATER
Analysis Date: 02/18/2009 13:20
Dilution: 1
Prep Batch ID: 843092
Batch ID: 843092

CAS No		Parmname	Amount Added ug/L	Sample Conc. ug/L	Spike Conc. ug/L	Recovery %	Acceptance Limits
108-10-1	LCS	4-Methyl-2-pentanone	250	0.0	260	104	65-135
10061-01-5	LCS	cis-1,3-Dichloropropene *cis-1,3-Dichloropropylene*	50.0	0.0	56.2	112	69-131
108-88-3	LCS	Toluene	50.0	0.0	52.9	106	77-122
10061-02-6	LCS	trans-1,3-Dichloropropene *trans-1,3-Dichloropropylene*	50.0	0.0	53.8	108	59-135
79-00-5	LCS	1,1,2-Trichloroethane	50.0	0.0	50.8	102	75-125
591-78-6	LCS	2-Hexanone	250	0.0	251	100	65-135
127-18-4	LCS	Tetrachloroethylene	50.0	0.0	54.4	109	66-128
124-48-1	LCS	Dibromochloromethane	50.0	0.0	54.4	109	66-133
108-90-7	LCS	Chlorobenzene	50.0	0.0	53.1	106	81-122
100-41-4	LCS	Ethylbenzene	50.0	0.0	54.1	108	70-130
179601-23-1	LCS	m,p-Xylenes	100	0.0	107	107	75-118
95-47-6	LCS	o-Xylene	50.0	0.0	53.8	108	76-118
100-42-5	LCS	Styrene	50.0	0.0	55.7	111	65-134
75-25-2	LCS	Bromoform	50.0	0.0	55.0	110	69-128
79-34-5	LCS	1,1,2,2-Tetrachloroethane	50.0	0.0	50.7	101	63-128
541-73-1	LCS	1,3-Dichlorobenzene	50.0	0.0	51.8	104	75-124
106-46-7	LCS	1,4-Dichlorobenzene	50.0	0.0	50.3	101	74-123
91-20-3	LCS	Naphthalene	50.0	0.0	41.2	82	65-134
87-61-6	LCS	1,2,3-Trichlorobenzene	50.0	0.0	34.5	69	67-133
540-59-0	LCS	1,2-Dichloroethylene (total)	100	0.0	110	110	76-122
1330-20-7	LCS	Xylenes (total)	150	0.0	161	107	70-130
120-82-1	LCS	1,2,4-Trichlorobenzene	50.0	0.0	45.4	91	66-134

Volatile

Quality Control Summary
Spike Recovery Report

SDG Number: 224133
Sample Type: Laboratory Control Sample
Client ID: LCS for batch 843092
Matrix: WATER
Lab Sample ID: 1201780777
Instrument: VOA5.I
Analysis Date: 02/18/2009 13:20
Dilution: 1
Analyst: DXK1
Prep Batch ID: 843092
Purge Vol: 5 mL
Batch ID: 843092

CAS No	Parmname	Amount Added ug/L	Sample Conc. ug/L	Spike Conc. ug/L	Recovery %	Acceptance Limits
95-50-1	LCS 1,2-Dichlorobenzene	50.0	0.0	49.9	100	71-122

Volatile

Quality Control Summary
Spike Recovery Report

SDG Number: 224133
Client ID: LCS for batch 843092
Lab Sample ID: 1201782623
Instrument: VOA5.I
Analyst: DXK1
Purge Vol: 5 mL

Sample Type: Laboratory Control Sample
Matrix: WATER
Analysis Date: 02/19/2009 10:30
Dilution: 1
Prep Batch ID: 843092
Batch ID: 843092

CAS No		Parmname	Amount Added ug/L	Sample Conc. ug/L	Spike Conc. ug/L	Recovery %	Acceptance Limits
74-87-3	LCS	Chloromethane	50.0	0.0	49.2	98	56-131
75-01-4	LCS	Vinyl chloride	50.0	0.0	51.8	104	50-134
74-83-9	LCS	Bromomethane	50.0	0.0	51.9	104	53-141
75-00-3	LCS	Chloroethane	50.0	0.0	54.4	109	58-133
67-64-1	LCS	Acetone	250	0.0	264	105	40-135
75-35-4	LCS	1,1-Dichloroethylene	50.0	0.0	55.6	111	68-130
75-09-2	LCS	Methylene chloride	50.0	0.0	55.0	110	63-137
75-15-0	LCS	Carbon disulfide	250	0.0	295	118	70-126
156-60-5	LCS	trans-1,2-Dichloroethylene	50.0	0.0	54.9	110	63-137
108-05-4	LCS	Vinyl acetate	250	0.0	191	76	64-140
75-34-3	LCS	1,1-Dichloroethane	50.0	0.0	54.9	110	69-133
78-93-3	LCS	2-Butanone	250	0.0	285	114	49-136
156-59-2	LCS	cis-1,2-Dichloroethylene	50.0	0.0	55.0	110	72-126
67-66-3	LCS	Chloroform	50.0	0.0	52.3	105	69-128
71-55-6	LCS	1,1,1-Trichloroethane	50.0	0.0	54.3	109	67-132
56-23-5	LCS	Carbon tetrachloride	50.0	0.0	54.9	110	66-138
107-06-2	LCS	1,2-Dichloroethane	50.0	0.0	49.1	98	69-132
71-43-2	LCS	Benzene	50.0	0.0	54.8	110	81-122
79-01-6	LCS	Trichloroethylene	50.0	0.0	55.9	112	70-127
78-87-5	LCS	1,2-Dichloropropane	50.0	0.0	55.1	110	75-125
75-27-4	LCS	Bromodichloromethane	50.0	0.0	52.0	104	76-121
110-75-8	LCS	2-Chloroethylvinyl ether	250	0.0	203	81	52-120

Volatile

Quality Control Summary
Spike Recovery Report

SDG Number: 224133
Client ID: LCS for batch 843092
Lab Sample ID: 1201782623
Instrument: VOA5.I
Analyst: DXK1
Purge Vol: 5 mL

Sample Type: Laboratory Control Sample
Matrix: WATER
Analysis Date: 02/19/2009 10:30
Dilution: 1
Prep Batch ID: 843092
Batch ID: 843092

CAS No		Parmname	Amount Added ug/L	Sample Conc. ug/L	Spike Conc. ug/L	Recovery %	Acceptance Limits
108-10-1	LCS	4-Methyl-2-pentanone	250	0.0	292	117	65-135
10061-01-5	LCS	cis-1,3-Dichloropropene *cis-1,3-Dichloropropylene*	50.0	0.0	57.2	114	69-131
108-88-3	LCS	Toluene	50.0	0.0	53.6	107	77-122
10061-02-6	LCS	trans-1,3-Dichloropropene *trans-1,3-Dichloropropylene*	50.0	0.0	54.8	110	59-135
79-00-5	LCS	1,1,2-Trichloroethane	50.0	0.0	53.0	106	75-125
591-78-6	LCS	2-Hexanone	250	0.0	289	116	65-135
127-18-4	LCS	Tetrachloroethylene	50.0	0.0	53.1	106	66-128
124-48-1	LCS	Dibromochloromethane	50.0	0.0	54.3	109	66-133
108-90-7	LCS	Chlorobenzene	50.0	0.0	53.6	107	81-122
100-41-4	LCS	Ethylbenzene	50.0	0.0	54.3	109	70-130
179601-23-1	LCS	m,p-Xylenes	100	0.0	108	108	75-118
95-47-6	LCS	o-Xylene	50.0	0.0	54.3	109	76-118
100-42-5	LCS	Styrene	50.0	0.0	56.4	113	65-134
75-25-2	LCS	Bromoform	50.0	0.0	55.8	112	69-128
79-34-5	LCS	1,1,2,2-Tetrachloroethane	50.0	0.0	55.2	110	63-128
541-73-1	LCS	1,3-Dichlorobenzene	50.0	0.0	51.7	103	75-124
106-46-7	LCS	1,4-Dichlorobenzene	50.0	0.0	50.7	101	74-123
91-20-3	LCS	Naphthalene	50.0	0.0	40.2	80	65-134
87-61-6	LCS	1,2,3-Trichlorobenzene	50.0	0.0	32.1	64 *	67-133
540-59-0	LCS	1,2-Dichloroethylene (total)	100	0.0	110	110	76-122
1330-20-7	LCS	Xylenes (total)	150	0.0	162	108	70-130
120-82-1	LCS	1,2,4-Trichlorobenzene	50.0	0.0	43.6	87	66-134

Volatile

Quality Control Summary
Spike Recovery Report

SDG Number: 224133
Client ID: LCS for batch 843092
Lab Sample ID: 1201782623
Instrument: VOA5.I
Analyst: DXK1
Purge Vol: 5 mL

Sample Type: Laboratory Control Sample
Matrix: WATER
Analysis Date: 02/19/2009 10:30
Dilution: 1
Prep Batch ID: 843092
Batch ID: 843092

CAS No		Parmname	Amount Added ug/L	Sample Conc. ug/L	Spike Conc. ug/L	Recovery %	Acceptance Limits
95-50-1	LCS	1,2-Dichlorobenzene	50.0	0.0	50.4	101	71-122

Method Blank Summary

SDG Number:	224133	Client:	CH2M028	Matrix:	WATER
Client ID:	MB for batch 843092	Instrument ID:	VOA5.I	Data File:	5y305BC.d
Lab Sample ID:	1201780772	Prep Date:	02/18/2009 14:37	Analyzed:	02/18/09 14:37
Column:	DB-624	Heated Purge:	Yes		

This method blank applies to the following samples and quality control samples:

	Client Sample ID	Lab Sample ID	File ID	Date Analyzed	Time Analyzed
01	LCS for batch 843092	1201780777	5y302LC.d	02/18/09	1320
02	NS2TW001T1	224133001	5y311.d	02/18/09	1840
03	NS2TW002T1	224133002	5y312.d	02/18/09	1906
04	NS2EW001T1	224133003	5y313.d	02/18/09	1931
05	NS2TR001T1	224133004	5y314.d	02/18/09	1957
08	NS2TW001T1||PS	1201780774	5y320.d	02/18/09	2231
09	NS2TW001T1||PSD	1201780776	5y321.d	02/18/09	2256

Method Blank Summary

SDG Number:	224133	Client:	CH2M028	Matrix:	WATER
Client ID:	MB for batch 843092	Instrument ID:	VOA5.I	Data File:	5y406BC.d
Lab Sample ID:	1201782622	Prep Date:	02/19/2009 11:47	Analyzed:	02/19/09 11:47
Column:	DB-624	Heated Purge:	Yes		

This method blank applies to the following samples and quality control samples:

	Client Sample ID	Lab Sample ID	File ID	Date Analyzed	Time Analyzed
01	LCS for batch 843092	1201782623	5y403LC.d	02/19/09	1030
02	NS2TW001T1DL	224133001	5y407.d	02/19/09	1212
03	NS2TW002T1DL	224133002	5y408.d	02/19/09	1238

QC Data

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	**224133**			**Matrix:**	**WATER**
Lab Sample ID:	**1201780772**				
Client Sample:	**QC for batch 843092**	**Client:**	**CH2M028**	**Project:**	**QC**
Client ID:	**MB for batch 843092**	**Method:**	**SW846 8260B**	**SOP Ref:**	**GL-OA-E-038**
Batch ID:	**843092**	**Inst:**	**VOA5.I**	**Dilution:**	**1**
Run Date:	**02/18/2009 14:37**	**Analyst:**	**DXK1**	**Purge Vol:**	**5 mL**
Prep Date:	**02/18/2009 14:37**				
Data File:	**5y305BC.d**	**Column:**	**DB-624**	**Level:**	**LOW**

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	RDL
74-87-3	Chloromethane	U	1.00	ug/L	0.300	1.00	1.00
75-01-4	Vinyl chloride	U	1.00	ug/L	0.500	1.00	1.00
74-83-9	Bromomethane	U	1.00	ug/L	0.500	1.00	1.00
75-00-3	Chloroethane	U	1.00	ug/L	0.300	1.00	1.00
67-64-1	Acetone	U	5.00	ug/L	1.50	5.00	10.0
75-35-4	1,1-Dichloroethylene	U	1.00	ug/L	0.300	1.00	1.00
75-09-2	Methylene chloride	U	5.00	ug/L	2.00	5.00	5.00
75-15-0	Carbon disulfide	U	5.00	ug/L	1.25	5.00	5.00
156-60-5	trans-1,2-Dichloroethylene	U	1.00	ug/L	0.300	1.00	1.00
108-05-4	Vinyl acetate	U	5.00	ug/L	1.50	5.00	10.0
75-34-3	1,1-Dichloroethane	U	1.00	ug/L	0.300	1.00	1.00
78-93-3	2-Butanone	U	5.00	ug/L	1.25	5.00	10.0
156-59-2	cis-1,2-Dichloroethylene	U	1.00	ug/L	0.300	1.00	1.00
67-66-3	Chloroform	U	1.00	ug/L	0.250	1.00	1.00
71-55-6	1,1,1-Trichloroethane	U	1.00	ug/L	0.325	1.00	1.00
56-23-5	Carbon tetrachloride	U	1.00	ug/L	0.260	1.00	1.00
107-06-2	1,2-Dichloroethane	U	1.00	ug/L	0.250	1.00	1.00
71-43-2	Benzene	U	1.00	ug/L	0.300	1.00	1.00
79-01-6	Trichloroethylene	U	1.00	ug/L	0.250	1.00	1.00
78-87-5	1,2-Dichloropropane	U	1.00	ug/L	0.250	1.00	1.00
75-27-4	Bromodichloromethane	U	1.00	ug/L	0.250	1.00	1.00
110-75-8	2-Chloroethylvinyl ether	U	5.00	ug/L	1.50	5.00	10.0
108-10-1	4-Methyl-2-pentanone	U	5.00	ug/L	1.25	5.00	10.0
10061-01-5	cis-1,3-Dichloropropene	U	1.00	ug/L	0.250	1.00	1.00
	cis-1,3-Dichloropropylene						
108-88-3	Toluene	U	1.00	ug/L	0.250	1.00	1.00
10061-02-6	trans-1,3-Dichloropropene	U	1.00	ug/L	0.250	1.00	1.00
	trans-1,3-Dichloropropylene						
79-00-5	1,1,2-Trichloroethane	U	1.00	ug/L	0.250	1.00	1.00
591-78-6	2-Hexanone	U	5.00	ug/L	1.25	5.00	10.0
127-18-4	Tetrachloroethylene	U	1.00	ug/L	0.450	1.00	1.00
124-48-1	Dibromochloromethane	U	1.00	ug/L	0.260	1.00	1.00
108-90-7	Chlorobenzene	U	1.00	ug/L	0.250	1.00	1.00
100-41-4	Ethylbenzene	U	1.00	ug/L	0.250	1.00	1.00
9999000760	m,p-Xylenes	U	2.00	ug/L	0.430	2.00	2.00
179601-23-1							
95-47-6	o-Xylene	U	1.00	ug/L	0.250	1.00	1.00
100-42-5	Styrene	U	1.00	ug/L	0.250	1.00	1.00
75-25-2	Bromoform	U	1.00	ug/L	0.250	1.00	1.00
79-34-5	1,1,2,2-Tetrachloroethane	U	1.00	ug/L	0.250	1.00	1.00

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	**224133**			**Matrix:**	**WATER**
Lab Sample ID:	**1201780772**				
Client Sample:	**QC for batch 843092**	**Client:**	**CH2M028**	**Project:**	**QC**
Client ID:	**MB for batch 843092**	**Method:**	**SW846 8260B**	**SOP Ref:**	**GL-OA-E-038**
Batch ID:	**843092**	**Inst:**	**VOA5.I**	**Dilution:**	**1**
Run Date:	**02/18/2009 14:37**	**Analyst:**	**DXK1**	**Purge Vol:**	**5 mL**
Prep Date:	**02/18/2009 14:37**				
Data File:	**5y305BC.d**	**Column:**	**DB-624**	**Level:**	**LOW**

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	RDL
541-73-1	1,3-Dichlorobenzene	U	1.00	ug/L	0.250	1.00	1.00
106-46-7	1,4-Dichlorobenzene	U	1.00	ug/L	0.250	1.00	1.00
91-20-3	Naphthalene	U	1.00	ug/L	0.250	1.00	10.0
87-61-6	1,2,3-Trichlorobenzene	U	1.00	ug/L	0.332	1.00	1.00
540-59-0	1,2-Dichloroethylene (total)	U	1.00	ug/L	0.300	1.00	1.00
1330-20-7	Xylenes (total)	U	1.00	ug/L	0.600	1.00	3.00
120-82-1	1,2,4-Trichlorobenzene	U	1.00	ug/L	0.300	1.00	1.00
95-50-1	1,2-Dichlorobenzene	U	1.00	ug/L	0.250	1.00	1.00

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	**224133**			**Matrix:**	**WATER**
Lab Sample ID:	**1201782622**				
Client Sample:	**QC for batch 843092**	**Client:**	**CH2M028**	**Project:**	**QC**
Client ID:	**MB for batch 843092**	**Method:**	**SW846 8260B**	**SOP Ref:**	**GL-OA-E-038**
Batch ID:	**843092**	**Inst:**	**VOA5.I**	**Dilution:**	**1**
Run Date:	**02/19/2009 11:47**	**Analyst:**	**DXK1**	**Purge Vol:**	**5 mL**
Prep Date:	**02/19/2009 11:47**				
Data File:	**5y406BC.d**	**Column:**	**DB-624**	**Level:**	**LOW**

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	RDL
74-87-3	Chloromethane	U	1.00	ug/L	0.300	1.00	1.00
75-01-4	Vinyl chloride	U	1.00	ug/L	0.500	1.00	1.00
74-83-9	Bromomethane	U	1.00	ug/L	0.500	1.00	1.00
75-00-3	Chloroethane	U	1.00	ug/L	0.300	1.00	1.00
67-64-1	Acetone	U	5.00	ug/L	1.50	5.00	10.0
75-35-4	1,1-Dichloroethylene	U	1.00	ug/L	0.300	1.00	1.00
75-09-2	Methylene chloride	U	5.00	ug/L	2.00	5.00	5.00
75-15-0	Carbon disulfide	U	5.00	ug/L	1.25	5.00	5.00
156-60-5	trans-1,2-Dichloroethylene	U	1.00	ug/L	0.300	1.00	1.00
108-05-4	Vinyl acetate	U	5.00	ug/L	1.50	5.00	10.0
75-34-3	1,1-Dichloroethane	U	1.00	ug/L	0.300	1.00	1.00
78-93-3	2-Butanone	U	5.00	ug/L	1.25	5.00	10.0
156-59-2	cis-1,2-Dichloroethylene	U	1.00	ug/L	0.300	1.00	1.00
67-66-3	Chloroform	U	1.00	ug/L	0.250	1.00	1.00
71-55-6	1,1,1-Trichloroethane	U	1.00	ug/L	0.325	1.00	1.00
56-23-5	Carbon tetrachloride	U	1.00	ug/L	0.260	1.00	1.00
107-06-2	1,2-Dichloroethane	U	1.00	ug/L	0.250	1.00	1.00
71-43-2	Benzene	U	1.00	ug/L	0.300	1.00	1.00
79-01-6	Trichloroethylene	U	1.00	ug/L	0.250	1.00	1.00
78-87-5	1,2-Dichloropropane	U	1.00	ug/L	0.250	1.00	1.00
75-27-4	Bromodichloromethane	U	1.00	ug/L	0.250	1.00	1.00
110-75-8	2-Chloroethylvinyl ether	U	5.00	ug/L	1.50	5.00	10.0
108-10-1	4-Methyl-2-pentanone	U	5.00	ug/L	1.25	5.00	10.0
10061-01-5	cis-1,3-Dichloropropene *cis-1,3-Dichloropropylene*	U	1.00	ug/L	0.250	1.00	1.00
108-88-3	Toluene	U	1.00	ug/L	0.250	1.00	1.00
10061-02-6	trans-1,3-Dichloropropene *trans-1,3-Dichloropropylene*	U	1.00	ug/L	0.250	1.00	1.00
79-00-5	1,1,2-Trichloroethane	U	1.00	ug/L	0.250	1.00	1.00
591-78-6	2-Hexanone	U	5.00	ug/L	1.25	5.00	10.0
127-18-4	Tetrachloroethylene	U	1.00	ug/L	0.450	1.00	1.00
124-48-1	Dibromochloromethane	U	1.00	ug/L	0.260	1.00	1.00
108-90-7	Chlorobenzene	U	1.00	ug/L	0.250	1.00	1.00
100-41-4	Ethylbenzene	U	1.00	ug/L	0.250	1.00	1.00
9999000760	m,p-Xylenes	U	2.00	ug/L	0.430	2.00	2.00
179601-23-1 95-47-6	o-Xylene	U	1.00	ug/L	0.250	1.00	1.00
100-42-5	Styrene	U	1.00	ug/L	0.250	1.00	1.00
75-25-2	Bromoform	U	1.00	ug/L	0.250	1.00	1.00
79-34-5	1,1,2,2-Tetrachloroethane	U	1.00	ug/L	0.250	1.00	1.00

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	**224133**			**Matrix:**	**WATER**
Lab Sample ID:	**1201782622**				
Client Sample:	**QC for batch 843092**	**Client:**	**CH2M028**	**Project:**	**QC**
Client ID:	**MB for batch 843092**	**Method:**	**SW846 8260B**	**SOP Ref:**	**GL-OA-E-038**
Batch ID:	**843092**	**Inst:**	**VOA5.I**	**Dilution:**	**1**
Run Date:	**02/19/2009 11:47**	**Analyst:**	**DXK1**	**Purge Vol:**	**5 mL**
Prep Date:	**02/19/2009 11:47**				
Data File:	**5y406BC.d**	**Column:**	**DB-624**	**Level:**	**LOW**

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	RDL
541-73-1	1,3-Dichlorobenzene	U	1.00	ug/L	0.250	1.00	1.00
106-46-7	1,4-Dichlorobenzene	U	1.00	ug/L	0.250	1.00	1.00
91-20-3	Naphthalene	U	1.00	ug/L	0.250	1.00	10.0
87-61-6	1,2,3-Trichlorobenzene	U	1.00	ug/L	0.332	1.00	1.00
540-59-0	1,2-Dichloroethylene (total)	U	1.00	ug/L	0.300	1.00	1.00
1330-20-7	Xylenes (total)	U	1.00	ug/L	0.600	1.00	3.00
120-82-1	1,2,4-Trichlorobenzene	U	1.00	ug/L	0.300	1.00	1.00
95-50-1	1,2-Dichlorobenzene	U	1.00	ug/L	0.250	1.00	1.00

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	**224133**			**Matrix:**	**WATER**
Lab Sample ID:	**1201780777**				
Client Sample:	**QC for batch 843092**	**Client:**	**CH2M028**	**Project:**	**QC**
Client ID:	**LCS for batch 843092**	**Method:**	**SW846 8260B**	**SOP Ref:**	**GL-OA-E-038**
Batch ID:	**843092**	**Inst:**	**VOA5.I**	**Dilution:**	**1**
Run Date:	**02/18/2009 13:20**	**Analyst:**	**DXK1**	**Purge Vol:**	**5 mL**
Prep Date:	**02/18/2009 13:20**				
Data File:	**5y302LC.d**	**Column:**	**DB-624**	**Level:**	**LOW**

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	RDL
74-87-3	Chloromethane		47.0	ug/L	0.300	1.00	1.00
75-01-4	Vinyl chloride		51.9	ug/L	0.500	1.00	1.00
74-83-9	Bromomethane		50.7	ug/L	0.500	1.00	1.00
75-00-3	Chloroethane		52.9	ug/L	0.300	1.00	1.00
67-64-1	Acetone		229	ug/L	1.50	5.00	10.0
75-35-4	1,1-Dichloroethylene		56.3	ug/L	0.300	1.00	1.00
75-09-2	Methylene chloride		55.2	ug/L	2.00	5.00	5.00
75-15-0	Carbon disulfide		295	ug/L	1.25	5.00	5.00
156-60-5	trans-1,2-Dichloroethylene		54.8	ug/L	0.300	1.00	1.00
108-05-4	Vinyl acetate		182	ug/L	1.50	5.00	10.0
75-34-3	1,1-Dichloroethane		54.0	ug/L	0.300	1.00	1.00
78-93-3	2-Butanone		239	ug/L	1.25	5.00	10.0
156-59-2	cis-1,2-Dichloroethylene		55.0	ug/L	0.300	1.00	1.00
67-66-3	Chloroform		51.9	ug/L	0.250	1.00	1.00
71-55-6	1,1,1-Trichloroethane		57.0	ug/L	0.325	1.00	1.00
56-23-5	Carbon tetrachloride		58.6	ug/L	0.260	1.00	1.00
107-06-2	1,2-Dichloroethane		49.6	ug/L	0.250	1.00	1.00
71-43-2	Benzene		53.8	ug/L	0.300	1.00	1.00
79-01-6	Trichloroethylene		54.8	ug/L	0.250	1.00	1.00
78-87-5	1,2-Dichloropropane		53.6	ug/L	0.250	1.00	1.00
75-27-4	Bromodichloromethane		52.0	ug/L	0.250	1.00	1.00
110-75-8	2-Chloroethylvinyl ether		221	ug/L	1.50	5.00	10.0
108-10-1	4-Methyl-2-pentanone		260	ug/L	1.25	5.00	10.0
10061-01-5	cis-1,3-Dichloropropene		56.2	ug/L	0.250	1.00	1.00
	cis-1,3-Dichloropropylene						
108-88-3	Toluene		52.9	ug/L	0.250	1.00	1.00
10061-02-6	trans-1,3-Dichloropropene		53.8	ug/L	0.250	1.00	1.00
	trans-1,3-Dichloropropylene						
79-00-5	1,1,2-Trichloroethane		50.8	ug/L	0.250	1.00	1.00
591-78-6	2-Hexanone		251	ug/L	1.25	5.00	10.0
127-18-4	Tetrachloroethylene		54.4	ug/L	0.450	1.00	1.00
124-48-1	Dibromochloromethane		54.4	ug/L	0.260	1.00	1.00
108-90-7	Chlorobenzene		53.1	ug/L	0.250	1.00	1.00
100-41-4	Ethylbenzene		54.1	ug/L	0.250	1.00	1.00
9999000760	m,p-Xylenes		107	ug/L	0.430	2.00	2.00
179601-23-1							
95-47-6	o-Xylene		53.8	ug/L	0.250	1.00	1.00
100-42-5	Styrene		55.7	ug/L	0.250	1.00	1.00
75-25-2	Bromoform		55.0	ug/L	0.250	1.00	1.00
79-34-5	1,1,2,2-Tetrachloroethane		50.7	ug/L	0.250	1.00	1.00

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	**224133**			**Matrix:**	**WATER**
Lab Sample ID:	**1201780777**				
Client Sample:	**QC for batch 843092**	**Client:**	**CH2M028**	**Project:**	**QC**
Client ID:	**LCS for batch 843092**	**Method:**	**SW846 8260B**	**SOP Ref:**	**GL-OA-E-038**
Batch ID:	**843092**	**Inst:**	**VOA5.I**	**Dilution:**	**1**
Run Date:	**02/18/2009 13:20**	**Analyst:**	**DXK1**	**Purge Vol:**	**5 mL**
Prep Date:	**02/18/2009 13:20**				
Data File:	**5y302LC.d**	**Column:**	**DB-624**	**Level:**	**LOW**

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	RDL
541-73-1	1,3-Dichlorobenzene		51.8	ug/L	0.250	1.00	1.00
106-46-7	1,4-Dichlorobenzene		50.3	ug/L	0.250	1.00	1.00
91-20-3	Naphthalene		41.2	ug/L	0.250	1.00	10.0
87-61-6	1,2,3-Trichlorobenzene		34.5	ug/L	0.332	1.00	1.00
540-59-0	1,2-Dichloroethylene (total)		110	ug/L	0.300	1.00	1.00
1330-20-7	Xylenes (total)		161	ug/L	0.600	1.00	3.00
120-82-1	1,2,4-Trichlorobenzene		45.4	ug/L	0.300	1.00	1.00
95-50-1	1,2-Dichlorobenzene		49.9	ug/L	0.250	1.00	1.00

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	**224133**			**Matrix:**	**WATER**
Lab Sample ID:	**1201782623**				
Client Sample:	**QC for batch 843092**	**Client:**	**CH2M028**	**Project:**	**QC**
Client ID:	**LCS for batch 843092**	**Method:**	**SW846 8260B**	**SOP Ref:**	**GL-OA-E-038**
Batch ID:	**843092**	**Inst:**	**VOA5.I**	**Dilution:**	**1**
Run Date:	**02/19/2009 10:30**	**Analyst:**	**DXK1**	**Purge Vol:**	**5 mL**
Prep Date:	**02/19/2009 10:30**				
Data File:	**5y403LC.d**	**Column:**	**DB-624**	**Level:**	**LOW**

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	RDL
74-87-3	Chloromethane		49.2	ug/L	0.300	1.00	1.00
75-01-4	Vinyl chloride		51.8	ug/L	0.500	1.00	1.00
74-83-9	Bromomethane		51.9	ug/L	0.500	1.00	1.00
75-00-3	Chloroethane		54.4	ug/L	0.300	1.00	1.00
67-64-1	Acetone		264	ug/L	1.50	5.00	10.0
75-35-4	1,1-Dichloroethylene		55.6	ug/L	0.300	1.00	1.00
75-09-2	Methylene chloride		55.0	ug/L	2.00	5.00	5.00
75-15-0	Carbon disulfide		295	ug/L	1.25	5.00	5.00
156-60-5	trans-1,2-Dichloroethylene		54.9	ug/L	0.300	1.00	1.00
108-05-4	Vinyl acetate		191	ug/L	1.50	5.00	10.0
75-34-3	1,1-Dichloroethane		54.9	ug/L	0.300	1.00	1.00
78-93-3	2-Butanone		285	ug/L	1.25	5.00	10.0
156-59-2	cis-1,2-Dichloroethylene		55.0	ug/L	0.300	1.00	1.00
67-66-3	Chloroform		52.3	ug/L	0.250	1.00	1.00
71-55-6	1,1,1-Trichloroethane		54.3	ug/L	0.325	1.00	1.00
56-23-5	Carbon tetrachloride		54.9	ug/L	0.260	1.00	1.00
107-06-2	1,2-Dichloroethane		49.1	ug/L	0.250	1.00	1.00
71-43-2	Benzene		54.8	ug/L	0.300	1.00	1.00
79-01-6	Trichloroethylene		55.9	ug/L	0.250	1.00	1.00
78-87-5	1,2-Dichloropropane		55.1	ug/L	0.250	1.00	1.00
75-27-4	Bromodichloromethane		52.0	ug/L	0.250	1.00	1.00
110-75-8	2-Chloroethylvinyl ether		203	ug/L	1.50	5.00	10.0
108-10-1	4-Methyl-2-pentanone		292	ug/L	1.25	5.00	10.0
10061-01-5	cis-1,3-Dichloropropene *cis-1,3-Dichloropropylene*		57.2	ug/L	0.250	1.00	1.00
108-88-3	Toluene		53.6	ug/L	0.250	1.00	1.00
10061-02-6	trans-1,3-Dichloropropene *trans-1,3-Dichloropropylene*		54.8	ug/L	0.250	1.00	1.00
79-00-5	1,1,2-Trichloroethane		53.0	ug/L	0.250	1.00	1.00
591-78-6	2-Hexanone		289	ug/L	1.25	5.00	10.0
127-18-4	Tetrachloroethylene		53.1	ug/L	0.450	1.00	1.00
124-48-1	Dibromochloromethane		54.3	ug/L	0.260	1.00	1.00
108-90-7	Chlorobenzene		53.6	ug/L	0.250	1.00	1.00
100-41-4	Ethylbenzene		54.3	ug/L	0.250	1.00	1.00
9999000760	m,p-Xylenes		108	ug/L	0.430	2.00	2.00
179601-23-1 95-47-6	o-Xylene		54.3	ug/L	0.250	1.00	1.00
100-42-5	Styrene		56.4	ug/L	0.250	1.00	1.00
75-25-2	Bromoform		55.8	ug/L	0.250	1.00	1.00
79-34-5	1,1,2,2-Tetrachloroethane		55.2	ug/L	0.250	1.00	1.00

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	**224133**			**Matrix:**	**WATER**
Lab Sample ID:	**1201782623**				
Client Sample:	**QC for batch 843092**	**Client:**	**CH2M028**	**Project:**	**QC**
Client ID:	**LCS for batch 843092**	**Method:**	**SW846 8260B**	**SOP Ref:**	**GL-OA-E-038**
Batch ID:	**843092**	**Inst:**	**VOA5.I**	**Dilution:**	**1**
Run Date:	**02/19/2009 10:30**	**Analyst:**	**DXK1**	**Purge Vol:**	**5 mL**
Prep Date:	**02/19/2009 10:30**				
Data File:	**5y403LC.d**	**Column:**	**DB-624**	**Level:**	**LOW**

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	RDL
541-73-1	1,3-Dichlorobenzene		51.7	ug/L	0.250	1.00	1.00
106-46-7	1,4-Dichlorobenzene		50.7	ug/L	0.250	1.00	1.00
91-20-3	Naphthalene		40.2	ug/L	0.250	1.00	10.0
87-61-6	1,2,3-Trichlorobenzene		32.1	ug/L	0.332	1.00	1.00
540-59-0	1,2-Dichloroethylene (total)		110	ug/L	0.300	1.00	1.00
1330-20-7	Xylenes (total)		162	ug/L	0.600	1.00	3.00
120-82-1	1,2,4-Trichlorobenzene		43.6	ug/L	0.300	1.00	1.00
95-50-1	1,2-Dichlorobenzene		50.4	ug/L	0.250	1.00	1.00

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	224133	**Date Collected:**	02/06/2009 10:40	**Matrix:**	WG
Lab Sample ID:	1201780774	**Date Received:**	02/06/2009 15:30		
Client Sample:	QC for batch 843092	**Client:**	CH2M028	**Project:**	QC
Client ID:	NS2TW001T1||PS	**Method:**	SW846 8260B	**SOP Ref:**	GL-OA-E-038
Batch ID:	843092	**Inst:**	VOA5.I	**Dilution:**	1
Run Date:	02/18/2009 22:31	**Analyst:**	DXK1	**Purge Vol:**	5 mL
Prep Date:	02/18/2009 22:31				
Data File:	5y320.d	**Column:**	DB-624	**Level:**	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	RDL
74-87-3	Chloromethane		41.0	ug/L	0.300	1.00	1.00
75-01-4	Vinyl chloride		43.3	ug/L	0.500	1.00	1.00
74-83-9	Bromomethane		44.5	ug/L	0.500	1.00	1.00
75-00-3	Chloroethane		45.4	ug/L	0.300	1.00	1.00
67-64-1	Acetone		243	ug/L	1.50	5.00	10.0
75-35-4	1,1-Dichloroethylene		46.1	ug/L	0.300	1.00	1.00
75-09-2	Methylene chloride		49.9	ug/L	2.00	5.00	5.00
75-15-0	Carbon disulfide		248	ug/L	1.25	5.00	5.00
156-60-5	trans-1,2-Dichloroethylene		46.6	ug/L	0.300	1.00	1.00
108-05-4	Vinyl acetate		141	ug/L	1.50	5.00	10.0
75-34-3	1,1-Dichloroethane		47.1	ug/L	0.300	1.00	1.00
78-93-3	2-Butanone		240	ug/L	1.25	5.00	10.0
156-59-2	cis-1,2-Dichloroethylene		47.5	ug/L	0.300	1.00	1.00
67-66-3	Chloroform		45.5	ug/L	0.250	1.00	1.00
71-55-6	1,1,1-Trichloroethane		45.2	ug/L	0.325	1.00	1.00
56-23-5	Carbon tetrachloride		46.5	ug/L	0.260	1.00	1.00
107-06-2	1,2-Dichloroethane		44.1	ug/L	0.250	1.00	1.00
71-43-2	Benzene		47.5	ug/L	0.300	1.00	1.00
79-01-6	Trichloroethylene		47.1	ug/L	0.250	1.00	1.00
78-87-5	1,2-Dichloropropane		48.7	ug/L	0.250	1.00	1.00
75-27-4	Bromodichloromethane		46.5	ug/L	0.250	1.00	1.00
110-75-8	2-Chloroethylvinyl ether		68.1	ug/L	1.50	5.00	10.0
108-10-1	4-Methyl-2-pentanone		250	ug/L	1.25	5.00	10.0
10061-01-5	cis-1,3-Dichloropropene *cis-1,3-Dichloropropylene*		50.3	ug/L	0.250	1.00	1.00
108-88-3	Toluene		47.1	ug/L	0.250	1.00	1.00
10061-02-6	trans-1,3-Dichloropropene *trans-1,3-Dichloropropylene*		49.4	ug/L	0.250	1.00	1.00
79-00-5	1,1,2-Trichloroethane		48.9	ug/L	0.250	1.00	1.00
591-78-6	2-Hexanone		207	ug/L	1.25	5.00	10.0
127-18-4	Tetrachloroethylene		45.7	ug/L	0.450	1.00	1.00
124-48-1	Dibromochloromethane		50.7	ug/L	0.260	1.00	1.00
108-90-7	Chlorobenzene		48.4	ug/L	0.250	1.00	1.00
100-41-4	Ethylbenzene		47.3	ug/L	0.250	1.00	1.00
9999000760	m,p-Xylenes		94.6	ug/L	0.430	2.00	2.00
179601-23-1 95-47-6	o-Xylene		48.2	ug/L	0.250	1.00	1.00
100-42-5	Styrene		51.0	ug/L	0.250	1.00	1.00
75-25-2	Bromoform		52.8	ug/L	0.250	1.00	1.00
79-34-5	1,1,2,2-Tetrachloroethane		50.3	ug/L	0.250	1.00	1.00

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	224133	**Date Collected:**	02/06/2009 10:40	**Matrix:**	WG
Lab Sample ID:	1201780774	**Date Received:**	02/06/2009 15:30		
Client Sample:	QC for batch 843092	**Client:**	CH2M028	**Project:**	QC
Client ID:	NS2TW001T1||PS	**Method:**	SW846 8260B	**SOP Ref:**	GL-OA-E-038
Batch ID:	843092	**Inst:**	VOA5.I	**Dilution:**	1
Run Date:	02/18/2009 22:31	**Analyst:**	DXK1	**Purge Vol:**	5 mL
Prep Date:	02/18/2009 22:31				
Data File:	5y320.d	**Column:**	DB-624	**Level:**	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	RDL
541-73-1	1,3-Dichlorobenzene		48.2	ug/L	0.250	1.00	1.00
106-46-7	1,4-Dichlorobenzene		47.0	ug/L	0.250	1.00	1.00
91-20-3	Naphthalene		58.6	ug/L	0.250	1.00	10.0
87-61-6	1,2,3-Trichlorobenzene		31.7	ug/L	0.332	1.00	1.00
540-59-0	1,2-Dichloroethylene (total)		94.0	ug/L	0.300	1.00	1.00
1330-20-7	Xylenes (total)		143	ug/L	0.600	1.00	3.00
120-82-1	1,2,4-Trichlorobenzene		42.9	ug/L	0.300	1.00	1.00
95-50-1	1,2-Dichlorobenzene		48.4	ug/L	0.250	1.00	1.00

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	**224133**	**Date Collected:**	**02/06/2009 10:40**	**Matrix:**	**WG**
Lab Sample ID:	**1201780776**	**Date Received:**	**02/06/2009 15:30**		
Client Sample:	**QC for batch 843092**	**Client:**	**CH2M028**	**Project:**	**QC**
Client ID:	**NS2TW001T1||PSD**	**Method:**	**SW846 8260B**	**SOP Ref:**	**GL-OA-E-038**
Batch ID:	**843092**	**Inst:**	**VOA5.I**	**Dilution:**	**1**
Run Date:	**02/18/2009 22:56**	**Analyst:**	**DXK1**	**Purge Vol:**	**5 mL**
Prep Date:	**02/18/2009 22:56**				
Data File:	**5y321.d**	**Column:**	**DB-624**	**Level:**	**LOW**

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	RDL
74-87-3	Chloromethane		43.5	ug/L	0.300	1.00	1.00
75-01-4	Vinyl chloride		46.9	ug/L	0.500	1.00	1.00
74-83-9	Bromomethane		46.1	ug/L	0.500	1.00	1.00
75-00-3	Chloroethane		48.7	ug/L	0.300	1.00	1.00
67-64-1	Acetone		290	ug/L	1.50	5.00	10.0
75-35-4	1,1-Dichloroethylene		49.3	ug/L	0.300	1.00	1.00
75-09-2	Methylene chloride		50.8	ug/L	2.00	5.00	5.00
75-15-0	Carbon disulfide		267	ug/L	1.25	5.00	5.00
156-60-5	trans-1,2-Dichloroethylene		49.3	ug/L	0.300	1.00	1.00
108-05-4	Vinyl acetate		147	ug/L	1.50	5.00	10.0
75-34-3	1,1-Dichloroethane		48.5	ug/L	0.300	1.00	1.00
78-93-3	2-Butanone		284	ug/L	1.25	5.00	10.0
156-59-2	cis-1,2-Dichloroethylene		48.8	ug/L	0.300	1.00	1.00
67-66-3	Chloroform		46.8	ug/L	0.250	1.00	1.00
71-55-6	1,1,1-Trichloroethane		48.3	ug/L	0.325	1.00	1.00
56-23-5	Carbon tetrachloride		49.4	ug/L	0.260	1.00	1.00
107-06-2	1,2-Dichloroethane		44.6	ug/L	0.250	1.00	1.00
71-43-2	Benzene		49.5	ug/L	0.300	1.00	1.00
79-01-6	Trichloroethylene		49.5	ug/L	0.250	1.00	1.00
78-87-5	1,2-Dichloropropane		49.4	ug/L	0.250	1.00	1.00
75-27-4	Bromodichloromethane		47.1	ug/L	0.250	1.00	1.00
110-75-8	2-Chloroethylvinyl ether		69.1	ug/L	1.50	5.00	10.0
108-10-1	4-Methyl-2-pentanone		283	ug/L	1.25	5.00	10.0
10061-01-5	cis-1,3-Dichloropropene		50.3	ug/L	0.250	1.00	1.00
	cis-1,3-Dichloropropylene						
108-88-3	Toluene		49.2	ug/L	0.250	1.00	1.00
10061-02-6	trans-1,3-Dichloropropene		49.9	ug/L	0.250	1.00	1.00
	trans-1,3-Dichloropropylene						
79-00-5	1,1,2-Trichloroethane		50.4	ug/L	0.250	1.00	1.00
591-78-6	2-Hexanone		240	ug/L	1.25	5.00	10.0
127-18-4	Tetrachloroethylene		49.8	ug/L	0.450	1.00	1.00
124-48-1	Dibromochloromethane		51.5	ug/L	0.260	1.00	1.00
108-90-7	Chlorobenzene		49.7	ug/L	0.250	1.00	1.00
100-41-4	Ethylbenzene		49.7	ug/L	0.250	1.00	1.00
9999000760	m,p-Xylenes		99.2	ug/L	0.430	2.00	2.00
179601-23-1							
95-47-6	o-Xylene		50.5	ug/L	0.250	1.00	1.00
100-42-5	Styrene		52.2	ug/L	0.250	1.00	1.00
75-25-2	Bromoform		54.0	ug/L	0.250	1.00	1.00
79-34-5	1,1,2,2-Tetrachloroethane		53.6	ug/L	0.250	1.00	1.00

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	**224133**	**Date Collected:**	**02/06/2009 10:40**	**Matrix:**	**WG**
Lab Sample ID:	**1201780776**	**Date Received:**	**02/06/2009 15:30**		
Client Sample:	**QC for batch 843092**	**Client:**	**CH2M028**	**Project:**	**QC**
Client ID:	**NS2TW001T1||PSD**	**Method:**	**SW846 8260B**	**SOP Ref:**	**GL-OA-E-038**
Batch ID:	**843092**	**Inst:**	**VOA5.I**	**Dilution:**	**1**
Run Date:	**02/18/2009 22:56**	**Analyst:**	**DXK1**	**Purge Vol:**	**5 mL**
Prep Date:	**02/18/2009 22:56**				
Data File:	**5y321.d**	**Column:**	**DB-624**	**Level:**	**LOW**

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	RDL
541-73-1	1,3-Dichlorobenzene		48.2	ug/L	0.250	1.00	1.00
106-46-7	1,4-Dichlorobenzene		46.9	ug/L	0.250	1.00	1.00
91-20-3	Naphthalene		64.0	ug/L	0.250	1.00	10.0
87-61-6	1,2,3-Trichlorobenzene		32.9	ug/L	0.332	1.00	1.00
540-59-0	1,2-Dichloroethylene (total)		98.1	ug/L	0.300	1.00	1.00
1330-20-7	Xylenes (total)		150	ug/L	0.600	1.00	3.00
120-82-1	1,2,4-Trichlorobenzene		43.6	ug/L	0.300	1.00	1.00
95-50-1	1,2-Dichlorobenzene		47.8	ug/L	0.250	1.00	1.00

Miscellaneous Data

COMPANY - WIDE NONCONFORMANCE REPORT

Mo.Day Yr.	Division:	Quality Criteria:	Type:
19-FEB-09	Federal	Specifications	Process
Instrument Type:	**Test / Method:**	**Matrix Type:**	**Client Code:**
VOA GC/MS	SW846 8260B	Liquid	CH2M
Batch ID:	**Sample Numbers:**		
843092	See Below		

Potentially affected work order(s)(SDG): 224131,224133

Application Issues:

Failed Recovery for MS/PS

Failed RPD for MS/MSD, or PS/PSD

Failed Recovery for LCS/LCSD

Failed Recovery for MSD/PSD

Specification and Requirements Nonconformance Description:	NRG Disposition:
1. The LCS (1201782623) did not meet acceptance criteria for 1,2,3-Trichlorobenzene.	1. Narrate and report. The LCS is associated with dilutions that were required after the initial analysis. 1,2,3-Trichlorobenzene recovered below the LCS limits, however it was not a compound of interest for the diluted analyses.
2.The matrix spikes and duplicates did not meet acceptance criteria. 1201780773MS/1201780775MSD 1201780774MS/1201780776MSD	2. The unacceptable recoveries are most likely due to matrix interference, confirmed by similar results between the MS and MSD.
3. The relative percent difference for MS/MSD (1201780773/1201780775) pair was above the acceptance limits for cis-1,2-Dichloroethylene.	3. The unacceptable RPD limit for cis-1,2-Dichloroethylene was most likely due to matrix interference.

Originator's Name:

David Kingsbury 19-FEB-09

Data Validator/Group Leader:

Kelle Bellamy 19-FEB-09

Quality Review:

Director:

GEL Laboratories, LLC
Revision:11/22/04

ORGANIC RUN LOG - INSTRUMENT ID#VOA5

Date: 2/17/2009 Method 8260/624 Operator: DXK1

REVIEWED BY: _____
DATE: _____

HARDWARE CONFIGURATION & METHOD CONDITIONS SUMMARY No# 1

Daily Instrument Readings:
Multiplier Voltage: 1565

CALIBRATION & CC INFORMATION:

Initial Calibration Date: 2/17/2009

(See pg. 40 for ICAL Std. Sci. Ids)

NaHSO4 lot # n/a

Cl test lot # n/a

Sequence Number: 021709v5

Daily Standard Volume Added for Purge (ul)

	Solution ID#	Blk/ Smpl	ICV	MS/ LCS	BFB
L-ICV	W5VM090217-14		5+5		
IS	UVM090105-01	1	1	1	
SS	UVM090105-02	1	1	1	
S-ICV	W5VM090217-23		5+5		
BFB	UVM090105-02				1
	n/a	n/a		n/a	
	n/a	n/a		n/a	

Purge Amount

5	Water Purge Vol:
n/a	Soil Purge Wt.
n/a	Mid level ext. MeOH Vol:
n/a	ul
n/a	Methanol Lot #
X	Heated Purge

Analysis Date	Time	Data File	Lab Sample ID	Client	Batch #	Wt.(g) or Vol(ml/ul)	Dil. Factor	pH	AS Slot #	Matrix w or s	Analyst	Cl test (Y/N)	Acceptable(O/X)	Comments
2/17/2009	15:14	5Y201.D	UVM090105-02	GEL	BFB	5mL	1	N/A	13	w	DXK1	N/A	O	
2/17/2009	15:59	5Y202.D	W5VM090217-05	GEL	L1	5mL	1	N/A	2	w	DXK1	N/A	O	MIX [A] 081124-02D+090125-0
2/17/2009	16:44	5Y203.D	W5VM090217-06	GEL	L8	5mL	1	N/A	3	w	DXK1	N/A	O	MIX [A] 081124-01D+090125-0
2/17/2009	17:09	5Y204.D	W5VM090217-07	GEL	L2	5mL	1	N/A	4	w	DXK1	N/A	O	MIX [A] 081124-03D+090125-0
2/17/2009	17:35	5Y205.D	W5VM090217-08	GEL	L3	5mL	1	N/A	5	w	DXK1	N/A	O	MIX [A] 081124-04D+090125-0
2/17/2009	18:00	5Y206.D	W5VM090217-09	GEL	L4	5mL	1	N/A	6	w	DXK1	N/A	O	MIX [A] 081124-05D+090125-0
2/17/2009	18:26	5Y207.D	W5VM090217-10	GEL	L5	5mL	1	N/A	7	w	DXK1	N/A	O	MIX [A] 081124-06D+090125-0
2/17/2009	18:52	5Y208.D	W5VM090217-11	GEL	L6	5mL	1	N/A	8	w	DXK1	N/A	O	MIX [A] 081124-07D+090125-0
2/17/2009	19:17	5Y209.D	W5VM090217-12	GEL	L7	5mL	1	N/A	9	w	DXK1	N/A	O	MIX [A] 081124-08D+090125-0
2/17/2009	19:43	5Y210.D	RINSE	GEL	BLANK	5mL	1	N/A	10	w	DXK1	N/A	X	rinse
2/17/2009	20:08	5Y211.D	W5VM090217-13	GEL	ICV	5mL	1	N/A	11	w	DXK1	N/A	X	UVM090119-01C+IVM090211-01
2/17/2009	20:34	5Y212.D	W5VM090217-14	GEL	ICV	5mL	1	N/A	12	w	DXK1	N/A	O	UVM090119-02D+IVM090211-01
2/17/2009	21:00	5Y213.D	W5VM090217-15	GEL	S1	5mL	1	N/A	13	w	DXK1	N/A	O	MIX [B] 090130-01+090209-01
2/17/2009	21:25	5Y214.D	W5VM090217-16	GEL	S2	5mL	1	N/A	14	w	DXK1	N/A	O	MIX [B] 090130-01+090209-01
2/17/2009	21:51	5Y215.D	W5VM090217-17	GEL	S3	5mL	1	N/A	15	w	DXK1	N/A	O	MIX [B] 090130-01+090209-01
2/17/2009	22:16	5Y216.D	W5VM090217-18	GEL	S4	5mL	1	N/A	16	w	DXK1	N/A	O	MIX [B] 090130-01+090209-01
2/17/2009	22:41	5Y217.D	W5VM090217-19	GEL	S5	5mL	1	N/A	17	w	DXK1	N/A	O	MIX [B] 090130-01+090209-01
2/17/2009	23:07	5Y218.D	W5VM090217-20	GEL	S6	5mL	1	N/A	18	w	DXK1	N/A	O	MIX [B] 090130-01+090209-01
2/17/2009	23:32	5Y219.D	W5VM090217-21	GEL	S7	5mL	1	N/A	19	w	DXK1	N/A	O	MIX [B] 090130-01+090209-01
2/17/2009	23:58	5Y220.D	RINSE	GEL	BLANK	5mL	1	N/A	20	w	DXK1	N/A	X	rinse
2/18/2009	0:24	5Y221.D	W5VM090217-22	GEL	ICV	5mL	1	N/A	21	w	DXK1	N/A	X	UVM090113-08B+UVM090119-03C
2/18/2009	0:49	5Y222.D	W5VM090217-23	GEL	ICV	5mL	1	N/A	22	w	DXK1	N/A	O	UVM090114-01A+UVM090119-03C
2/18/2009	1:15	5Y223.D	RINSE	GEL	BLANK	5mL	1	N/A	23	w	DXK1	N/A	X	rinse

GEL Laboratories, LLC
Revision:11/22/04

ORGANIC RUN LOG - INSTRUMENT ID#VOA5

Date: 2/18/2009 Method 8260/624 Operator: DXK1

REVIEWED BY: _____
DATE: _____

HARDWARE CONFIGURATION & METHOD CONDITIONS SUMMARY No# 1

Daily Instrument Readings:
Multiplier Voltage: 1565

CALIBRATION & CC INFORMATION:

Initial Calibration Date: 2/17/2009

(See pg. 40 for ICAL Std. Sci. Ids)

NaHSO4 lot # n/a

Cl test lot # n/a

Sequence Number: 021709v5

Daily Standard Volume Added for Purge (ul)

	Solution ID#	Blk/ Smpl	CCV	MS/ LCS	BFB
CCV	W5VM090218-01		5+5		
IS	UVM090105-01	1	1	1	
SS	UVM090105-02	1	1	1	
LCS/MS	W5VM090218-02\03			5+5	
BFB	UVM090105-02				1
SHORT	UVM090114-01B		5		
DHEC	UVM081008-01C			5	

Purge Amount

5	Water Purge Vol:
5	Soil Purge Wt.
n/a	Mid level ext. MeOH Vol:
n/a	ul
n/a	Methanol Lot #
X	Heated Purge

Analysis Date	Time	Data File	Lab Sample ID	Client	Batch #	Wt.(g) or Vol(ml/ul)	Dil. Factor	pH	AS Slot #	Matrix w or s	Analyst	Cl test (Y/N)	Acceptable(O/X)	Comments
2/18/2009	12:54	5Y301.D	W5VM090218-01	GEL	BFB/CCV	5mL	1	N/A	1	w	DXK1	N/A	O	081124-07D+090125-07C
2/18/2009	13:20	5Y302.D	W5VM090218-02	GEL	LCS	5mL	1	N/A	2	w	DXK1	N/A	O	UVM090119-01D+IVM090218-01
2/18/2009	13:46	5Y303.D	W5VM090218-03	GEL	LCS	5g	1	N/A	3	s	DXK1	N/A	O	UVM090119-01D+IVM090218-01
2/18/2009	14:11	5Y304.D	UVM090114-01B	GEL	SHORT	5mL	1	N/A	4	w	DXK1	N/A	O	
2/18/2009	14:37	5Y305.D	12017---	GEL	MB	5mL	1	N/A	5	w	DXK1	N/A	O	
2/18/2009	15:02	5Y306.D	12017---	GEL	MB	5g	1	N/A	6	s	DXK1	N/A	O	
2/18/2009	16:57	5Y307.D	224131001	CH2M	843092	5mL	1	pH2	7	w	DXK1	N	O	
2/18/2009	17:23	5Y308.D	224131002	CH2M	843092	5mL	1	pH2	8	w	DXK1	N	O	
2/18/2009	17:49	5Y309.D	224131003	CH2M	843092	5mL	1	pH2	9	w	DXK1	N	O	
2/18/2009	18:14	5Y310.D	224131004	CH2M	843092	5mL	1	pH2	10	w	DXK1	N	O	see 5y410 for DL
2/18/2009	18:40	5Y311.D	224133001	CH2M	843092	5mL	1	pH2	11	w	DXK1	N	O	see 5y407 for DL
2/18/2009	19:06	5Y312.D	224133002	CH2M	843092	5mL	1	pH2	12	w	DXK1	N	O	see 5y408 for DL
2/18/2009	19:31	5Y313.D	224133003	CH2M	843092	5mL	1	pH2	13	w	DXK1	N	O	
2/18/2009	19:57	5Y314.D	224133004	CH2M	843092	5mL	1	pH2	14	w	DXK1	N	O	
2/18/2009	20:22	5Y315.D	224169002	WSRB	842643	5mL	1	pH2	15	w	DXK1	N	O	
2/18/2009	20:48	5Y316.D	1201779662	WSRB	842643	5mL	1	pH2	16	w	DXK1	N	O	MS 224169001
2/18/2009	21:13	5Y317.D	1201779663	WSRB	842643	5mL	1	pH2	17	w	DXK1	N	O	MSD 224169001
2/18/2009	21:39	5Y318.D	1201780773	CH2M	843092	5mL	1	pH2	18	w	DXK1	N	O	MS 224131001
2/18/2009	22:05	5Y319.D	1201780775	CH2M	843092	5mL	1	pH2	19	w	DXK1	N	O	MSD 224131001
2/18/2009	22:31	5Y320.D	1201780774	CH2M	843092	5mL	1	pH2	20	w	DXK1	N	O	MS 224133001
2/18/2009	22:56	5Y321.D	1201780776	CH2M	843092	5mL	1	pH2	21	w	DXK1	N	O	MSD 224133001

GEL Laboratories, LLC
Revision:11/22/04

ORGANIC RUN LOG - INSTRUMENT ID#VOA5

Date: 2/19/2009 Method 8260/624 Operator: DXK1

REVIEWED BY: _____
DATE: _____

HARDWARE CONFIGURATION & METHOD CONDITIONS SUMMARY No# 1

Daily Instrument Readings:
Multiplier Voltage: 1565

CALIBRATION & CC INFORMATION:

Initial Calibration Date: 2/17/2009

(See pg. 40 for ICAL Std. Sci. Ids)

NaHSO4 lot # n/a

Cl test lot # 81710

Sequence Number: 021709v5

Daily Standard Volume Added for Purge (ul)

	Solution ID#	Blk/ Smpl	CCV	MS/ LCS	BFB
CCV	W5VM090219-01		5+5		
IS	UVM090105-01	1	1	1	
SS	UVM090105-02	1	1	1	
LCS/MS	W5VM090219-03			5+5	
BFB	UVM090105-02				1
SHORT	UVM090114-01B		5		
DHEC	UVM081020-01C			5	

Purge Amount

5	Water Purge Vol:
n/a	Soil Purge Wt.
n/a	Mid level ext. MeOH Vol:
n/a	ul
n/a	Methanol Lot #
X	Heated Purge

Analysis Date	Time	Data File	Lab Sample ID	Client	Batch #	Wt.(g) or Vol(ml/ul)	Dil. Factor	pH	AS Slot #	Matrix w or s	Analyst	Cl test (Y/N)	Acceptable(O/X)	Comments
2/19/2009	9:24	5Y401.D	W5VM090219-01	GEL	BFB/CCV	5mL	1	N/A	1	w	DXK1	N/A	O	081124-07D+090125-07C
2/19/2009	9:49	5Y402.D	W5VM090219-02	GEL	LCS	5mL	1	N/A	2	w	DXK1	N/A	X	UVM090119-01E+IVM090218-01
2/19/2009	10:30	5Y403.D	W5VM090219-03	GEL	LCS	5mL	1	N/A	3	w	DXK1	N/A	O	UVM090119-01D+IVM090218-01
2/19/2009	10:55	5Y404.D	UVM081020-01C	GEL	DHEC	5mL	1	N/A	4	w	DXK1	N/A	O	
2/19/2009	11:21	5Y405.D	UVM090114-01B	GEL	SHORT	5mL	1	N/A	5	w	DXK1	N/A	O	
2/19/2009	11:47	5Y406.D	12017---	GEL	MB	5mL	1	N/A	6	w	DXK1	N/A	O	
2/19/2009	12:12	5Y407.D	224133001	CH2M	843092	2.5mL	2	pH2	7	w	DXK1	N	O	DL for 5y311
2/19/2009	12:38	5Y408.D	224133002	CH2M	843092	2.5mL	2	pH2	8	w	DXK1	N	O	DL for 5y312
2/19/2009	13:04	5Y409.D	224131003	CH2M	843092	1mL	5	pH2	9	w	DXK1	N	X	not needed
2/19/2009	13:30	5Y410.D	224131004	CH2M	843092	2.5mL	2	pH2	10	w	DXK1	N	O	DL for 5y310

GC/MS Semivolatile Analysis

Semi-Volatile Case Narrative
CH2M-JONES, LLC #510016 (CH2M)
SDG 224133

Method/Analysis Information

Procedure:	**Analysis of Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry**
Analytical Method:	SW846 3510C/8270D
Prep Method:	SW846 3510C
Analytical Batch Number:	841761
Prep Batch Number:	841759

Sample Analysis

The following samples were analyzed using the analytical protocol as established in SW846 3510C/8270D:

Sample ID	Client ID
224133001	NS2TW001T1
224133002	NS2TW002T1
224133003	NS2EW001T1
1201777447	Method Blank (MB)
1201777448	Laboratory Control Sample (LCS)
1201777451	224198002(GW-Big) Matrix Spike (MS)
1201777452	224198002(GW-Big) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Preparation/Analytical Method Verification

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by GEL Laboratories LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-OA-E-009 REV# 21.

Raw data reports are processed and reviewed by the analyst using the Target software package. False positives have been removed from the Target quantitation reports per standard operating procedures (SOP) section 18.2.

Calibration Information

Please note that the 'Cal Date' indicated on each quantitation report reflects the date and time of the most recent calibrated analyte(s) in the Target processing method. Since the laboratory may calibrate with multiple solutions on different days using the same processing method, the Target software will update the 'Cal Date' to the last calibration file, date and time. The correct dates and times for all calibration files are located on the Calibration History report in the Standard Data section in the data package.

Due to software limitations, the Calibration Summary Form 6 may not indicate all the calibration files comprising the initial calibration. A complete list of the initial calibration data files are shown in the Calibration History report located in the Standard Data section of the data package. Please note that the second level of the initial calibration (5 mg/L) is only used for n-Nitrosodipropylamine. The various calibration mixes may not be calibrated using all of the calibration levels. In addition, not all of the mixes are calibrated using the same levels.

Diphenylamine has now superseded N-Nitroso-diphenylamine as a CCC on Quantitation Reports, Initial Calibration Reports, Calibration Check Standard Reports, etc. Previous versions of EPA Method 8270 (prior to 8270C) listed N-Nitroso-diphenylamine as a CCC. However, as stated in EPA Method 8270C, Revision 3, December, 1996, Section 1.4.5, "N-Nitroso-diphenylamine decomposes in the gas chromatographic inlet and cannot be separated from Diphenylamine." Studies of these two compounds at GEL, both independent of each other and together, show that they not only co-elute, but also have similar mass spectra. N-Nitroso-diphenylamine and Diphenylamine will be reported as Diphenylamine on all reports and forms.

The linear equation used in Target and indicated on the initial calibration summary form is not a conventional linear equation (slope intercept formula) and does not match the equation found in SW-846 method 8000B. The x and y axes are inversed in Target, so that the instrument response is treated as the independent variable (x) and the concentration ratio is treated as the dependent variable (y). The equation used in Target to calculate sample results is adjusted to account for the linear equation inversion and reciprocal slope. The adjusted calculation has been independently verified to produce valid results.

Initial Calibration
All initial calibration requirements have been met for this sample delivery group (SDG). A second source initial calibration verification (ICV) was included in the standard section directly behind the initial calibration.

CCV Requirements
All associated calibration verification standard(s) (ICV or CCV) met the acceptance criteria.

Quality Control (QC) Information

Method Blank (MB) Statement
The MB analyzed with this SDG met the acceptance criteria.

Surrogate Recoveries
The following samples failed surrogate recovery: 224133001 (NS2TW001T1) and 224133002 (NS2TW002T1). There is insufficient sample remaining to perform a re-extraction. Therefore, the data from this analysis have been reported.

Laboratory Control Sample (LCS) Recovery
The LCS spike recoveries met the acceptance limits.

QC Sample Designation
The non-SDG sample 224198002 (GW-Big) was selected for analysis as the matrix spike and matrix spike duplicate.

Matrix Spike (MS) Recovery Statement
The MS recoveries were within the established acceptance limits.

Matrix Spike Duplicate (MSD) Recovery Statement
The MSD recoveries were within the established acceptance limits.

MS/MSD Relative Percent Difference (RPD) Statement
The RPD(s) between the MS and MSD met the acceptance limits.

Internal Standard (ISTD) Acceptance
The internal standard responses were within the required acceptance criteria for all samples and QC.

Technical Information

Holding Time Specifications
All samples in this SDG met the specified holding time.

Preparation/Analytical Method Verification
All procedures were performed as stated in the SOP.

Sample Dilutions
The samples in this SDG did not require dilutions.

Sample Re-extraction/Re-analysis
Re-extractions or re-analyses were not required in this SDG except for confirmations and/or dilutions.

Miscellaneous Information

Nonconformance (NCR) Documentation
The following NCR was generated for this SDG: 658722. It is located in the Miscellaneous Section of the data report.

Manual Integrations
Some initial calibration standards, continuing calibration standards, and/or samples may require manual integrations due to software limitations. Please see the raw data in the Miscellaneous Section.

Additional Comments
Additional comments were not required for this SDG.

Electronic Package Comment
The following package was generated using an electronic data processing program referred to as "virtual packaging". In an effort to increase quality and efficiency, the laboratory is developing systems to eventually generate all data packages electronically. The following change from "traditional" packages should be noted:

Analyst/peer reviewer initials and dates are not present on the electronic data files. Presently, all initials and dates are present on the original raw data. These hard copies are temporarily stored in the laboratory. An electronic signature page inserted after the case narrative of each electronic package will indicate the analyst, reviewer, and report specialist names associated with the generation of the data and package. The data validator will always sign and date the case narrative. Data that are not generated electronically, such as hand written pages, will be scanned and inserted into the electronic package.

System Configuration
The laboratory utilizes a HP 6890 Series gas chromatograph and a HP 5973 Mass Selective Detector. The configuration is equipped with the electronic pressure control. All MS interfaces are capillary direct.

Chromatographic Columns
Chromatographic separation of semi-volatile components is accomplished through analysis on one or more of the following columns (all with dimensions of 30 meters x 0.25 millimeters ID and 0.25 micron film except J&W DB-5MS2 and Phenomenex ZB-5ms which are 25 meters x 0.20 mm ID and 0.33 micron film).

Instrument Configuration
The samples reported in this SDG were analyzed on one or more of the following instrument systems. Instrument systems are referenced in the raw data and individual form headers by the Instrument ID designations listed below:

Instrument ID	Instrument	System Configuration	Column ID	Column Description
MSD2.I	HP 5970 Mass Spectrometer	HP6890/HP5973	DB-5MS	25m x 0.2mm, 0.33um (5% Phenylmethylpolysiloxane)

Certification Statement
Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Review Validation:

GEL requires all analytical data to be verified by a qualified data validator. In addition, all data designated for CLP or CLP-like packaging will receive a third level validation upon completion of the data package.

Reviewer: Dan Blevins **Date:** 2-19-09

Roadmap for CH2M 224133 SVOA

This roadmap was analyzed by ANN00964 on 02-18-2009, 21:25.
This roadmap was reviewed by dan01134 on 02-19-2009, 12:36.

Sample

exclude	manual	datafile	smpid	injdate	injtime	sublist	clientid	dilution	batchid	comment
☐	N	/chem/MSD2.i/s021609.b/s2b1613.d	224133001	16-FEB-2009	17:48	224133.sub	NS2TW001T1	1	841761	USE SUR LOW no spl to RE
☐	N	/chem/MSD2.i/s021609.b/s2b1614.d	224133002	16-FEB-2009	18:09	224133.sub	NS2TW002T1	1	841761	USE SUR LOW no spl to RE
☐	N	/chem/MSD2.i/s021609.b/s2b1615.d	224133003	16-FEB-2009	18:30	224133.sub	NS2EW001T1	1	841761	USE

QC Sample

exclude	manual	datafile	smpid	sampletype	injdate	injtime	sublist	clientid	dilution	batchid	comment
☐	N	/chem/MSD2.i/s021609.b/s2b1606.d	1201777447	mb	16-FEB-2009	15:19	224133.sub	SBLK01	1	841761	USE
☐	N	/chem/MSD2.i/s021609.b/s2b1607.d	1201777448	lcs	16-FEB-2009	15:41	224133.sub	SBLK01LCS	1	841761	USE

Sample Data Summary

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	**224133**	**Date Collected:**	**02/06/2009 11:30**	**Matrix:**	**WG**
Lab Sample ID:	**224133003**	**Date Received:**	**02/06/2009 15:30**		
		Client:	**CH2M028**	**Project:**	**CH2M01007**
Client ID:	**NS2EW001T1**	**Method:**	**SW846 3510C/8270D**	**SOP Ref:**	**GL-OA-E-009**
Batch ID:	**841761**	**Inst:**	**MSD2.I**	**Dilution:**	**1**
Run Date:	**02/16/2009 18:30**	**Analyst:**	**AGS1**	**Inj. Vol:**	**.5 uL**
Prep Date:	**02/13/2009 13:10**	**Aliquot:**	**1050 mL**	**Final Volume:**	**1 mL**
Data File:	**s2b1615.d**	**Column:**	**J&W DB-5MS**	**Level:**	**LOW**

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	RDL
108-95-2	Phenol	U	9.52	ug/L	0.952	9.52	10.0
95-57-8	2-Chlorophenol	U	9.52	ug/L	1.90	9.52	10.0
106-46-7	1,4-Dichlorobenzene	U	9.52	ug/L	1.90	9.52	10.0
621-64-7	N-Nitrosodipropylamine	U	9.52	ug/L	1.90	9.52	10.0
59-50-7	4-Chloro-3-methylphenol	U	9.52	ug/L	1.90	9.52	10.0
83-32-9	Acenaphthene	U	0.952	ug/L	0.295	0.952	10.0
121-14-2	2,4-Dinitrotoluene	U	9.52	ug/L	1.90	9.52	10.0
100-02-7	4-Nitrophenol	U	9.52	ug/L	1.90	9.52	50.0
87-86-5	Pentachlorophenol	U	9.52	ug/L	1.90	9.52	50.0
129-00-0	Pyrene	U	0.952	ug/L	0.286	0.952	10.0
111-44-4	bis(2-Chloroethyl) ether	U	9.52	ug/L	1.90	9.52	10.0
541-73-1	1,3-Dichlorobenzene	U	9.52	ug/L	1.90	9.52	10.0
100-51-6	Benzyl alcohol	U	9.52	ug/L	1.90	9.52	10.0
95-50-1	1,2-Dichlorobenzene	U	9.52	ug/L	1.90	9.52	10.0
108-60-1	bis(2-Chloroisopropyl)ether	U	9.52	ug/L	1.90	9.52	10.0
95-48-7	o-Cresol	U	9.52	ug/L	1.90	9.52	10.0
106-44-5 65794-96-9	m,p-Cresols	U	9.52	ug/L	2.86	9.52	10.0
67-72-1	Hexachloroethane	U	9.52	ug/L	1.90	9.52	10.0
98-95-3	Nitrobenzene	U	9.52	ug/L	2.86	9.52	10.0
78-59-1	Isophorone	U	9.52	ug/L	1.90	9.52	10.0
88-75-5	2-Nitrophenol	U	9.52	ug/L	1.90	9.52	10.0
105-67-9	2,4-Dimethylphenol	U	9.52	ug/L	1.90	9.52	10.0
111-91-1	bis(2-Chloroethoxy)methane	U	9.52	ug/L	2.86	9.52	10.0
120-83-2	2,4-Dichlorophenol	U	9.52	ug/L	1.90	9.52	10.0
65-85-0	Benzoic acid	U	19.0	ug/L	5.71	19.0	50.0
91-20-3	Naphthalene	U	0.952	ug/L	0.286	0.952	10.0
106-47-8	4-Chloroaniline	U	9.52	ug/L	1.90	9.52	10.0
87-68-3	Hexachlorobutadiene	U	9.52	ug/L	1.90	9.52	10.0
91-57-6	2-Methylnaphthalene	U	0.952	ug/L	0.286	0.952	10.0
77-47-4	Hexachlorocyclopentadiene	U	9.52	ug/L	1.90	9.52	10.0
88-06-2	2,4,6-Trichlorophenol	U	9.52	ug/L	1.90	9.52	10.0
95-95-4	2,4,5-Trichlorophenol	U	9.52	ug/L	0.952	9.52	50.0
91-58-7	2-Chloronaphthalene	U	0.952	ug/L	0.333	0.952	10.0
88-74-4	o-Nitroaniline	U	9.52	ug/L	1.90	9.52	50.0
99-09-2	m-Nitroaniline	U	9.52	ug/L	1.90	9.52	50.0
131-11-3	Dimethylphthalate	U	9.52	ug/L	1.90	9.52	10.0
606-20-2	2,6-Dinitrotoluene	U	9.52	ug/L	1.90	9.52	10.0
208-96-8	Acenaphthylene	U	0.952	ug/L	0.190	0.952	10.0

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	**224133**	**Date Collected:**	**02/06/2009 11:30**	**Matrix:**	**WG**
Lab Sample ID:	**224133003**	**Date Received:**	**02/06/2009 15:30**		
		Client:	**CH2M028**	**Project:**	**CH2M01007**
Client ID:	**NS2EW001T1**	**Method:**	**SW846 3510C/8270D**	**SOP Ref:**	**GL-OA-E-009**
Batch ID:	**841761**	**Inst:**	**MSD2.I**	**Dilution:**	**1**
Run Date:	**02/16/2009 18:30**	**Analyst:**	**AGS1**	**Inj. Vol:**	**.5 uL**
Prep Date:	**02/13/2009 13:10**	**Aliquot:**	**1050 mL**	**Final Volume:**	**1 mL**
Data File:	**s2b1615.d**	**Column:**	**J&W DB-5MS**	**Level:**	**LOW**

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	RDL
51-28-5	2,4-Dinitrophenol	U	19.0	ug/L	9.52	19.0	50.0
132-64-9	Dibenzofuran	U	9.52	ug/L	1.90	9.52	10.0
84-66-2	Diethylphthalate	U	9.52	ug/L	1.90	9.52	10.0
86-73-7	Fluorene	U	0.952	ug/L	0.190	0.952	10.0
7005-72-3	4-Chlorophenylphenylether	U	9.52	ug/L	1.90	9.52	10.0
534-52-1	2-Methyl-4,6-dinitrophenol	U	9.52	ug/L	2.86	9.52	50.0
100-01-6	p-Nitroaniline	U	9.52	ug/L	2.86	9.52	50.0
122-39-4	Diphenylamine	U	9.52	ug/L	2.86	9.52	10.0
101-55-3	4-Bromophenylphenylether	U	9.52	ug/L	1.90	9.52	10.0
118-74-1	Hexachlorobenzene	U	9.52	ug/L	1.90	9.52	10.0
85-01-8	Phenanthrene	U	0.952	ug/L	0.190	0.952	10.0
120-12-7	Anthracene	U	0.952	ug/L	0.190	0.952	10.0
84-74-2	Di-n-butylphthalate	U	9.52	ug/L	1.90	9.52	10.0
206-44-0	Fluoranthene	U	0.952	ug/L	0.190	0.952	10.0
85-68-7	Butylbenzylphthalate	U	9.52	ug/L	1.90	9.52	10.0
56-55-3	Benzo(a)anthracene	U	0.952	ug/L	0.190	0.952	10.0
91-94-1	3,3'-Dichlorobenzidine	U	9.52	ug/L	0.952	9.52	20.0
218-01-9	Chrysene	U	0.952	ug/L	0.190	0.952	10.0
117-81-7	bis(2-Ethylhexyl)phthalate	U	9.52	ug/L	1.90	9.52	10.0
117-84-0	Di-n-octylphthalate	U	9.52	ug/L	2.86	9.52	10.0
205-99-2	Benzo(b)fluoranthene	U	0.952	ug/L	0.190	0.952	10.0
207-08-9	Benzo(k)fluoranthene	U	0.952	ug/L	0.190	0.952	10.0
50-32-8	Benzo(a)pyrene	U	0.952	ug/L	0.190	0.952	10.0
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.952	ug/L	0.190	0.952	10.0
53-70-3	Dibenzo(a,h)anthracene	U	0.952	ug/L	0.190	0.952	10.0
191-24-2	Benzo(ghi)perylene	U	0.952	ug/L	0.190	0.952	10.0
86-74-8	Carbazole	U	0.952	ug/L	0.190	0.952	10.0
120-82-1	1,2,4-Trichlorobenzene	U	9.52	ug/L	1.90	9.52	10.0

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	224133	Date Collected:	02/06/2009 10:40	Matrix:	WG
Lab Sample ID:	224133001	Date Received:	02/06/2009 15:30		
		Client:	CH2M028	Project:	CH2M01007
Client ID:	NS2TW001T1	Method:	SW846 3510C/8270D	SOP Ref:	GL-OA-E-009
Batch ID:	841761	Inst:	MSD2.I	Dilution:	1
Run Date:	02/16/2009 17:48	Analyst:	AGS1	Inj. Vol:	.5 uL
Prep Date:	02/13/2009 13:10	Aliquot:	1060 mL	Final Volume:	1 mL
Data File:	s2b1613.d	Column:	J&W DB-5MS	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	RDL
108-95-2	Phenol	U	9.43	ug/L	0.943	9.43	10.0
95-57-8	2-Chlorophenol	U	9.43	ug/L	1.89	9.43	10.0
106-46-7	1,4-Dichlorobenzene	U	9.43	ug/L	1.89	9.43	10.0
621-64-7	N-Nitrosodipropylamine	U	9.43	ug/L	1.89	9.43	10.0
59-50-7	4-Chloro-3-methylphenol	U	9.43	ug/L	1.89	9.43	10.0
83-32-9	Acenaphthene		11.9	ug/L	0.292	0.943	10.0
121-14-2	2,4-Dinitrotoluene	U	9.43	ug/L	1.89	9.43	10.0
100-02-7	4-Nitrophenol	U	9.43	ug/L	1.89	9.43	50.0
87-86-5	Pentachlorophenol	U	9.43	ug/L	1.89	9.43	50.0
129-00-0	Pyrene	J	2.10	ug/L	0.283	0.943	10.0
111-44-4	bis(2-Chloroethyl) ether	U	9.43	ug/L	1.89	9.43	10.0
541-73-1	1,3-Dichlorobenzene	U	9.43	ug/L	1.89	9.43	10.0
100-51-6	Benzyl alcohol	U	9.43	ug/L	1.89	9.43	10.0
95-50-1	1,2-Dichlorobenzene	U	9.43	ug/L	1.89	9.43	10.0
108-60-1	bis(2-Chloroisopropyl)ether	U	9.43	ug/L	1.89	9.43	10.0
95-48-7	o-Cresol	U	9.43	ug/L	1.89	9.43	10.0
106-44-5	m,p-Cresols	U	9.43	ug/L	2.83	9.43	10.0
65794-96-9							
67-72-1	Hexachloroethane	U	9.43	ug/L	1.89	9.43	10.0
98-95-3	Nitrobenzene	U	9.43	ug/L	2.83	9.43	10.0
78-59-1	Isophorone	U	9.43	ug/L	1.89	9.43	10.0
88-75-5	2-Nitrophenol	U	9.43	ug/L	1.89	9.43	10.0
105-67-9	2,4-Dimethylphenol	U	9.43	ug/L	1.89	9.43	10.0
111-91-1	bis(2-Chloroethoxy)methane	U	9.43	ug/L	2.83	9.43	10.0
120-83-2	2,4-Dichlorophenol	U	9.43	ug/L	1.89	9.43	10.0
65-85-0	Benzoic acid	U	18.9	ug/L	5.66	18.9	50.0
91-20-3	Naphthalene	U	0.943	ug/L	0.283	0.943	10.0
106-47-8	4-Chloroaniline	U	9.43	ug/L	1.89	9.43	10.0
87-68-3	Hexachlorobutadiene	U	9.43	ug/L	1.89	9.43	10.0
91-57-6	2-Methylnaphthalene	U	0.943	ug/L	0.283	0.943	10.0
77-47-4	Hexachlorocyclopentadiene	U	9.43	ug/L	1.89	9.43	10.0
88-06-2	2,4,6-Trichlorophenol	U	9.43	ug/L	1.89	9.43	10.0
95-95-4	2,4,5-Trichlorophenol	U	9.43	ug/L	0.943	9.43	50.0
91-58-7	2-Chloronaphthalene	U	0.943	ug/L	0.330	0.943	10.0
88-74-4	o-Nitroaniline	U	9.43	ug/L	1.89	9.43	50.0
99-09-2	m-Nitroaniline	U	9.43	ug/L	1.89	9.43	50.0
131-11-3	Dimethylphthalate	U	9.43	ug/L	1.89	9.43	10.0
606-20-2	2,6-Dinitrotoluene	U	9.43	ug/L	1.89	9.43	10.0
208-96-8	Acenaphthylene	J	0.274	ug/L	0.189	0.943	10.0

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	**224133**	**Date Collected:**	**02/06/2009 10:40**	**Matrix:**	**WG**
Lab Sample ID:	**224133001**	**Date Received:**	**02/06/2009 15:30**		
		Client:	**CH2M028**	**Project:**	**CH2M01007**
Client ID:	**NS2TW001T1**	**Method:**	**SW846 3510C/8270D**	**SOP Ref:**	**GL-OA-E-009**
Batch ID:	**841761**	**Inst:**	**MSD2.I**	**Dilution:**	**1**
Run Date:	**02/16/2009 17:48**	**Analyst:**	**AGS1**	**Inj. Vol:**	**.5 uL**
Prep Date:	**02/13/2009 13:10**	**Aliquot:**	**1060 mL**	**Final Volume:**	**1 mL**
Data File:	**s2b1613.d**	**Column:**	**J&W DB-5MS**	**Level:**	**LOW**

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	RDL
51-28-5	2,4-Dinitrophenol	U	18.9	ug/L	9.43	18.9	50.0
132-64-9	Dibenzofuran	J	2.78	ug/L	1.89	9.43	10.0
84-66-2	Diethylphthalate	U	9.43	ug/L	1.89	9.43	10.0
86-73-7	Fluorene	J	2.86	ug/L	0.189	0.943	10.0
7005-72-3	4-Chlorophenylphenylether	U	9.43	ug/L	1.89	9.43	10.0
534-52-1	2-Methyl-4,6-dinitrophenol	U	9.43	ug/L	2.83	9.43	50.0
100-01-6	p-Nitroaniline	U	9.43	ug/L	2.83	9.43	50.0
122-39-4	Diphenylamine	U	9.43	ug/L	2.83	9.43	10.0
101-55-3	4-Bromophenylphenylether	U	9.43	ug/L	1.89	9.43	10.0
118-74-1	Hexachlorobenzene	U	9.43	ug/L	1.89	9.43	10.0
85-01-8	Phenanthrene	J	0.537	ug/L	0.189	0.943	10.0
120-12-7	Anthracene	J	0.321	ug/L	0.189	0.943	10.0
84-74-2	Di-n-butylphthalate	J	4.13	ug/L	1.89	9.43	10.0
206-44-0	Fluoranthene	J	3.09	ug/L	0.189	0.943	10.0
85-68-7	Butylbenzylphthalate	U	9.43	ug/L	1.89	9.43	10.0
56-55-3	Benzo(a)anthracene	J	0.613	ug/L	0.189	0.943	10.0
91-94-1	3,3'-Dichlorobenzidine	U	9.43	ug/L	0.943	9.43	20.0
218-01-9	Chrysene	J	0.478	ug/L	0.189	0.943	10.0
117-81-7	bis(2-Ethylhexyl)phthalate	U	9.43	ug/L	1.89	9.43	10.0
117-84-0	Di-n-octylphthalate	U	9.43	ug/L	2.83	9.43	10.0
205-99-2	Benzo(b)fluoranthene	J	0.335	ug/L	0.189	0.943	10.0
207-08-9	Benzo(k)fluoranthene	U	0.943	ug/L	0.189	0.943	10.0
50-32-8	Benzo(a)pyrene	J	0.208	ug/L	0.189	0.943	10.0
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.943	ug/L	0.189	0.943	10.0
53-70-3	Dibenzo(a,h)anthracene	U	0.943	ug/L	0.189	0.943	10.0
191-24-2	Benzo(ghi)perylene	U	0.943	ug/L	0.189	0.943	10.0
86-74-8	Carbazole	U	0.943	ug/L	0.189	0.943	10.0
120-82-1	1,2,4-Trichlorobenzene	U	9.43	ug/L	1.89	9.43	10.0

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	**224133**	**Date Collected:**	**02/06/2009 11:22**	**Matrix:**	**WG**
Lab Sample ID:	**224133002**	**Date Received:**	**02/06/2009 15:30**		
		Client:	**CH2M028**	**Project:**	**CH2M01007**
Client ID:	**NS2TW002T1**	**Method:**	**SW846 3510C/8270D**	**SOP Ref:**	**GL-OA-E-009**
Batch ID:	**841761**	**Inst:**	**MSD2.I**	**Dilution:**	**1**
Run Date:	**02/16/2009 18:09**	**Analyst:**	**AGS1**	**Inj. Vol:**	**.5 uL**
Prep Date:	**02/13/2009 13:10**	**Aliquot:**	**1060 mL**	**Final Volume:**	**1 mL**
Data File:	**s2b1614.d**	**Column:**	**J&W DB-5MS**	**Level:**	**LOW**

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	RDL
108-95-2	Phenol	U	9.43	ug/L	0.943	9.43	10.0
95-57-8	2-Chlorophenol	U	9.43	ug/L	1.89	9.43	10.0
106-46-7	1,4-Dichlorobenzene	U	9.43	ug/L	1.89	9.43	10.0
621-64-7	N-Nitrosodipropylamine	U	9.43	ug/L	1.89	9.43	10.0
59-50-7	4-Chloro-3-methylphenol	U	9.43	ug/L	1.89	9.43	10.0
83-32-9	Acenaphthene	U	0.943	ug/L	0.292	0.943	10.0
121-14-2	2,4-Dinitrotoluene	U	9.43	ug/L	1.89	9.43	10.0
100-02-7	4-Nitrophenol	U	9.43	ug/L	1.89	9.43	50.0
87-86-5	Pentachlorophenol	U	9.43	ug/L	1.89	9.43	50.0
129-00-0	Pyrene	J	0.835	ug/L	0.283	0.943	10.0
111-44-4	bis(2-Chloroethyl) ether	U	9.43	ug/L	1.89	9.43	10.0
541-73-1	1,3-Dichlorobenzene	U	9.43	ug/L	1.89	9.43	10.0
100-51-6	Benzyl alcohol	U	9.43	ug/L	1.89	9.43	10.0
95-50-1	1,2-Dichlorobenzene	U	9.43	ug/L	1.89	9.43	10.0
108-60-1	bis(2-Chloroisopropyl)ether	U	9.43	ug/L	1.89	9.43	10.0
95-48-7	o-Cresol	U	9.43	ug/L	1.89	9.43	10.0
106-44-5 65794-96-9	m,p-Cresols	U	9.43	ug/L	2.83	9.43	10.0
67-72-1	Hexachloroethane	U	9.43	ug/L	1.89	9.43	10.0
98-95-3	Nitrobenzene	U	9.43	ug/L	2.83	9.43	10.0
78-59-1	Isophorone	U	9.43	ug/L	1.89	9.43	10.0
88-75-5	2-Nitrophenol	U	9.43	ug/L	1.89	9.43	10.0
105-67-9	2,4-Dimethylphenol	U	9.43	ug/L	1.89	9.43	10.0
111-91-1	bis(2-Chloroethoxy)methane	U	9.43	ug/L	2.83	9.43	10.0
120-83-2	2,4-Dichlorophenol	U	9.43	ug/L	1.89	9.43	10.0
65-85-0	Benzoic acid	U	18.9	ug/L	5.66	18.9	50.0
91-20-3	Naphthalene	U	0.943	ug/L	0.283	0.943	10.0
106-47-8	4-Chloroaniline	U	9.43	ug/L	1.89	9.43	10.0
87-68-3	Hexachlorobutadiene	U	9.43	ug/L	1.89	9.43	10.0
91-57-6	2-Methylnaphthalene	U	0.943	ug/L	0.283	0.943	10.0
77-47-4	Hexachlorocyclopentadiene	U	9.43	ug/L	1.89	9.43	10.0
88-06-2	2,4,6-Trichlorophenol	U	9.43	ug/L	1.89	9.43	10.0
95-95-4	2,4,5-Trichlorophenol	U	9.43	ug/L	0.943	9.43	50.0
91-58-7	2-Chloronaphthalene	U	0.943	ug/L	0.330	0.943	10.0
88-74-4	o-Nitroaniline	U	9.43	ug/L	1.89	9.43	50.0
99-09-2	m-Nitroaniline	U	9.43	ug/L	1.89	9.43	50.0
131-11-3	Dimethylphthalate	U	9.43	ug/L	1.89	9.43	10.0
606-20-2	2,6-Dinitrotoluene	U	9.43	ug/L	1.89	9.43	10.0
208-96-8	Acenaphthylene	U	0.943	ug/L	0.189	0.943	10.0

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	**224133**	**Date Collected:**	**02/06/2009 11:22**	**Matrix:**	**WG**
Lab Sample ID:	**224133002**	**Date Received:**	**02/06/2009 15:30**		
		Client:	**CH2M028**	**Project:**	**CH2M01007**
Client ID:	**NS2TW002T1**	**Method:**	**SW846 3510C/8270D**	**SOP Ref:**	**GL-OA-E-009**
Batch ID:	**841761**	**Inst:**	**MSD2.I**	**Dilution:**	**1**
Run Date:	**02/16/2009 18:09**	**Analyst:**	**AGS1**	**Inj. Vol:**	**.5 uL**
Prep Date:	**02/13/2009 13:10**	**Aliquot:**	**1060 mL**	**Final Volume:**	**1 mL**
Data File:	**s2b1614.d**	**Column:**	**J&W DB-5MS**	**Level:**	**LOW**

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	RDL
51-28-5	2,4-Dinitrophenol	U	18.9	ug/L	9.43	18.9	50.0
132-64-9	Dibenzofuran	U	9.43	ug/L	1.89	9.43	10.0
84-66-2	Diethylphthalate	J	2.20	ug/L	1.89	9.43	10.0
86-73-7	Fluorene	U	0.943	ug/L	0.189	0.943	10.0
7005-72-3	4-Chlorophenylphenylether	U	9.43	ug/L	1.89	9.43	10.0
534-52-1	2-Methyl-4,6-dinitrophenol	U	9.43	ug/L	2.83	9.43	50.0
100-01-6	p-Nitroaniline	U	9.43	ug/L	2.83	9.43	50.0
122-39-4	Diphenylamine	U	9.43	ug/L	2.83	9.43	10.0
101-55-3	4-Bromophenylphenylether	U	9.43	ug/L	1.89	9.43	10.0
118-74-1	Hexachlorobenzene	U	9.43	ug/L	1.89	9.43	10.0
85-01-8	Phenanthrene	U	0.943	ug/L	0.189	0.943	10.0
120-12-7	Anthracene	U	0.943	ug/L	0.189	0.943	10.0
84-74-2	Di-n-butylphthalate	J	3.92	ug/L	1.89	9.43	10.0
206-44-0	Fluoranthene	J	0.343	ug/L	0.189	0.943	10.0
85-68-7	Butylbenzylphthalate	U	9.43	ug/L	1.89	9.43	10.0
56-55-3	Benzo(a)anthracene	U	0.943	ug/L	0.189	0.943	10.0
91-94-1	3,3'-Dichlorobenzidine	U	9.43	ug/L	0.943	9.43	20.0
218-01-9	Chrysene	U	0.943	ug/L	0.189	0.943	10.0
117-81-7	bis(2-Ethylhexyl)phthalate	U	9.43	ug/L	1.89	9.43	10.0
117-84-0	Di-n-octylphthalate	U	9.43	ug/L	2.83	9.43	10.0
205-99-2	Benzo(b)fluoranthene	U	0.943	ug/L	0.189	0.943	10.0
207-08-9	Benzo(k)fluoranthene	U	0.943	ug/L	0.189	0.943	10.0
50-32-8	Benzo(a)pyrene	U	0.943	ug/L	0.189	0.943	10.0
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.943	ug/L	0.189	0.943	10.0
53-70-3	Dibenzo(a,h)anthracene	U	0.943	ug/L	0.189	0.943	10.0
191-24-2	Benzo(ghi)perylene	U	0.943	ug/L	0.189	0.943	10.0
86-74-8	Carbazole	U	0.943	ug/L	0.189	0.943	10.0
120-82-1	1,2,4-Trichlorobenzene	U	9.43	ug/L	1.89	9.43	10.0

QC Summary

Semi–Volatile

Surrogate Recovery Report

SDG Number: 224133

Matrix Type: LIQUID

CAP Column (1) : J&W DB–5MS

Sample ID	Client ID	2FP %REC	PHL %REC	NBZ %REC	FBP %REC	TBP %REC	TPH %REC
1201777447	MB for batch 841759	47	30	77	69	68	98
1201777448	LCS for batch 841759	48	31	79	69	83	90
224133001	NS2TW001T1	7 *	7 *	71	63	0 *	75
224133002	NS2TW002T1	20	21	72	63	10 *	79
224133003	NS2EW001T1	45	29	78	69	82	94

Surrogate		Acceptance Limits
2FP	= 2–Fluorophenol	(20%–120%)
PHL	= Phenol–d5	(20%–120%)
NBZ	= Nitrobenzene–d5	(41%–120%)
FBP	= 2–Fluorobiphenyl	(48%–120%)
TBP	= 2,4,6–Tribromophenol	(42%–124%)
TPH	= p–Terphenyl–d14	(51%–135%)

* Recovery outside Acceptance Limits

\# Column to be used to flag recovery values

D Sample Diluted

Semi–Volatile

Quality Control Summary
Spike Recovery Report

SDG Number: 224133
Client ID: LCS for batch 841759
Lab Sample ID: 1201777448
Instrument: MSD2.I
Analyst: AGS1
Inj. Vol: .5 uL

Sample Type: Laboratory Control Sample
Matrix: GROUND WATER
Analysis Date: 02/16/2009 15:41
Dilution: 1
Prep Batch ID: 841759
Batch ID: 841761

CAS No		Parmname	Amount Added ug/L	Sample Conc. ug/L	Spike Conc. ug/L	Recovery %	Acceptance Limits
108–95–2	LCS	Phenol	50.0	0.0	16.5	33	20–120
95–57–8	LCS	2–Chlorophenol	50.0	0.0	37.4	75	37–120
106–46–7	LCS	1,4–Dichlorobenzene	50.0	0.0	27.9	56	37–95
621–64–7	LCS	N–Nitrosodipropylamine	50.0	0.0	42.0	84	34–128
59–50–7	LCS	4–Chloro–3–methylphenol	50.0	0.0	40.1	80	47–120
83–32–9	LCS	Acenaphthene	50.0	0.0	36.4	73	47–120
121–14–2	LCS	2,4–Dinitrotoluene	50.0	0.0	41.9	84	51–120
100–02–7	LCS	4–Nitrophenol	50.0	0.0	21.4	43	20–120
87–86–5	LCS	Pentachlorophenol	50.0	0.0	39.7	79	38–120
129–00–0	LCS	Pyrene	50.0	0.0	37.1	74	49–128
120–82–1	LCS	1,2,4–Trichlorobenzene	50.0	0.0	29.0	58	37–120

Semi-Volatile

Quality Control Summary
Spike Recovery Report

SDG Number: 224133
Client ID: GW-Big||MS
Lab Sample ID: 1201777451
Instrument: MSD2.I
Analyst: AGS1
Inj. Vol: .5 uL

Sample Type: Matrix Spike
Matrix: GROUND WATER
Analysis Date: 02/16/2009 19:11
Prep Batch ID: 841759
Batch ID: 841761
Dilution: 1

CAS No		Parmname	Amount Added ug/L	Sample Conc. ug/L		Spike Conc. ug/L	Recovery %	Acceptance Limits
108-95-2	MS	Phenol	100	0.00	U	47.0	47	20-120
95-57-8	MS	2-Chlorophenol	100	0.00	U	71.9	72	37-120
106-46-7	MS	1,4-Dichlorobenzene	100	0.00	U	51.6	52	31-97
621-64-7	MS	N-Nitrosodipropylamine	100	0.00	U	79.9	80	34-128
59-50-7	MS	4-Chloro-3-methylphenol	100	0.00	U	80.3	80	47-120
83-32-9	MS	Acenaphthene	100	0.00	U	69.7	70	47-120
121-14-2	MS	2,4-Dinitrotoluene	100	0.00	U	76.8	77	51-120
100-02-7	MS	4-Nitrophenol	100	0.00	U	60.9	61	20-120
87-86-5	MS	Pentachlorophenol	100	0.00	U	86.3	86	38-120
129-00-0	MS	Pyrene	100	0.00	U	75.9	76	49-128
120-82-1	MS	1,2,4-Trichlorobenzene	100	0.00	U	54.4	54	37-120

Semi-Volatile

Quality Control Summary
Spike Recovery Report

SDG Number: 224133
Client ID: GW-Big||MSD
Lab Sample ID: 1201777452
Instrument: MSD2.I
Analyst: AGS1
Inj. Vol: .5 uL

Sample Type: Matrix Spike Duplicate
Matrix: GROUND WATER
Analysis Date: 02/16/2009 19:32
Prep Batch ID: 841759
Batch ID: 841761
Dilution: 1

CAS No	Parmname	Amount Added ug/L	Sample Conc. ug/L		Spike Conc. ug/L	Recovery %	Acceptance Limits	RPD %	Acceptance Limits
108-95-2	MSD Phenol	100	0.00	U	51.7	52	20-120	10	0-20
95-57-8	MSD 2-Chlorophenol	100	0.00	U	80.2	80	37-120	11	0-20
106-46-7	MSD 1,4-Dichlorobenzene	100	0.00	U	56.7	57	31-97	9	0-20
621-64-7	MSD N-Nitrosodipropylamine	100	0.00	U	89.8	90	34-128	12	0-20
59-50-7	MSD 4-Chloro-3-methylphenol	100	0.00	U	86.6	87	47-120	8	0-20
83-32-9	MSD Acenaphthene	100	0.00	U	74.1	74	47-120	6	0-20
121-14-2	MSD 2,4-Dinitrotoluene	100	0.00	U	81.8	82	51-120	6	0-20
100-02-7	MSD 4-Nitrophenol	100	0.00	U	68.8	69	20-120	12	0-20
87-86-5	MSD Pentachlorophenol	100	0.00	U	89.6	90	38-120	4	0-20
129-00-0	MSD Pyrene	100	0.00	U	74.9	75	49-128	1	0-20
120-82-1	MSD 1,2,4-Trichlorobenzene	100	0.00	U	58.2	58	37-120	7	0-20

Method Blank Summary

SDG Number:	224133	Client:	CH2M028	Matrix:	GROUND WATER
Client ID:	MB for batch 841759	Instrument ID:	MSD2.I	Data File:	s2b1606-1.d
Lab Sample ID:	1201777447	Prep Date:	02/13/2009 13:10	Analyzed:	02/16/09 15:19
Column:	J&W DB-5MS	Level:	LOW		

This method blank applies to the following samples and quality control samples:

	Client Sample ID	Lab Sample ID	File ID	Date Analyzed	Time Analyzed
01	LCS for batch 841759	1201777448	s2b1607-1.d	02/16/09	1541
02	NS2TW001T1	224133001	s2b1613.d	02/16/09	1748
03	NS2TW002T1	224133002	s2b1614.d	02/16/09	1809
04	NS2EW001T1	224133003	s2b1615.d	02/16/09	1830

Standard Data

SW846 8270C//8270D/EPA 625								
Calibration Standard Concentration Levels*								
	Level 1	Level 2	Level 3	Level 4#	Level 5	Level 6	Level 7	Level 8
1,4-Dichlorobenzene-d4 (INTERNAL STANDARD)								
Naphthalene-d8 (INTERNAL STANDARD)								
Acenaphthene-d10 (INTERNAL STANDARD)								
Phenanthrene-d10 (INTERNAL STANDARD)								
Chrysene-d12 (INTERNAL STANDARD)								
Perylene-d12 (INTERNAL STANDARD)								
2-Fluorophenol (SURROGATE)		10	20	40	50	80	100	120
Phenol-d5 (SURROGATE)		10	20	40	50	80	100	120
2-Chlorophenol-d4 (CLP SURROGATE)		10	20	40	50	80	100	120
1,2-Dichlorobenzene-d4 (CLP SURROGATE)		10	20	40	50	80	100	120
Nitrobenzene-d5 (SURROGATE)		10	20	40	50	80	100	120
2-Fluorobiphenyl (SURROGATE)		10	20	40	50	80	100	120
2,4,6-Tribromophenol (SURROGATE)		10	20	40	50	80	100	120
p-Terphenyl-d14 (SURROGATE)		10	20	40	50	80	100	120
N-Nitrosodimethylamine		10	20	40	50	80	100	120
Pyridine		10	20	40	50	80	100	120
Aniline		10	20	40	50	80	100	120
Benzaldehyde		10	20	40	50	80	100	120
Phenol		10	20	40	50	80	100	120
bis(2-Chloroethyl)ether	1	10	20	40	50	80	100	120
2-Chlorophenol		10	20	40	50	80	100	120
n-Decane		10	20	40	50	80	100	120
1,3-Dichlorobenzene		10	20	40	50	80	100	120
1,4-Dichlorobenzene		10	20	40	50	80	100	120
Benzyl Alcohol		10	20	40	50	80	100	120
1,2-Dichlorobenzene		10	20	40	50	80	100	120
bis(2-Chloroisopropyl)ether		10	20	40	50	80	100	120
o-Cresol (2-Methylphenol)		10	20	40	50	80	100	120
Acetophenone		10	20	40	50	80	100	120
N-Nitrosodipropylamine	1	10	20	40	50	80	100	120
m,p-Cresols (3-Methylphenol & 4-Methylphenol)		10	20	40	50	80	100	120
Hexachloroethane		10	20	40	50	80	100	120
Nitrobenzene		10	20	40	50	80	100	120
Isophorone		10	20	40	50	80	100	120
2-Nitrophenol		10	20	40	50	80	100	120
2,4-Dimethylphenol		10	20	40	50	80	100	120
bis(2-Chloroethoxy)methane		10	20	40	50	80	100	120
2,4-Dichlorophenol		10	20	40	50	80	100	120
Benzoic Acid			20	40	50	80	100	120
1,2,4-Trichlorobenzene		10	20	40	50	80	100	120
Naphthalene	1	10	20	40	50	80	100	120
alpha-Terpineol		10	20	40	50	80	100	120
4-Chloroaniline		10	20	40	50	80	100	120
Caprolactam		10	20	40	50	80	100	120

SW846 8270C//8270D/EPA 625								
Calibration Standard Concentration Levels*								
	Level 1	Level 2	Level 3	Level 4#	Level 5	Level 6	Level 7	Level 8
Hexachlorobutadiene		10	20	40	50	80	100	120
4-Chloro-3-methylphenol		10	20	40	50	80	100	120

2-Methylnaphthalene	1	10	20	40	50	80	100	120
1-Methylnaphthalene	1	10	20	40	50	80	100	120
Hexachlorocyclopentadiene		10	20	40	50	80	100	120
1,1'-Biphenyl		10	20	40	50	80	100	120
2,3-Dichloroaniline		10	20	40	50	80	100	120
2,4,6-Trichlorophenol		10	20	40	50	80	100	120
2,4,5-Trichlorophenol		10	20	40	50	80	100	120
2-Chloronaphthalene	1	10	20	40	50	80	100	120
o-Nitroaniline		10	20	40	50	80	100	120
m-Nitroaniline		10	20	40	50	80	100	120
Dimethylphthalate	1	10	20	40	50	80	100	120
2,6-Dinitrotoluene		10	20	40	50	80	100	120
Acenaphthylene	1	10	20	40	50	80	100	120
Acenaphthene	1	10	20	40	50	80	100	120
2,4-Dinitrophenol			20	40	50	80	100	120
Dibenzofuran		10	20	40	50	80	100	120
2,4-Dinitrotoluene		10	20	40	50	80	100	120
Diethylphthalate	1	10	20	40	50	80	100	120
4-Nitrophenol		10	20	40	50	80	100	120
Fluorene	1	10	20	40	50	80	100	120
4-Chlorophenyl phenyl ether		10	20	40	50	80	100	120
2-Methyl-4,6-dinitrophenol		10	20	40	50	80	100	120
p-Nitroaniline		10	20	40	50	80	100	120
Diphenylamine		10	20	40	50	80	100	120
1,2-Diphenylhydrazine		10	20	40	50	80	100	120
Tributylphosphate		10	20	40	50	80	100	120
4-Bromophenyl phenyether		10	20	40	50	80	100	120
Hexachlorobenzene		10	20	40	50	80	100	120
Atrazine		10	20	40	50	80	100	120
Pentachlorophenol		10	20	40	50	80	100	120
n-Octadecane		10	20	40	50	80	100	120
Phenanthrene	1	10	20	40	50	80	100	120
Anthracene	1	10	20	40	50	80	100	120
Di-n-butylphthalate	1	10	20	40	50	80	100	120
Fluoranthene	1	10	20	40	50	80	100	120
Benzidine		10	20	40	50	80	100	120
Pyrene	1	10	20	40	50	80	100	120
Butylbenzylphthalate	1	10	20	40	50	80	100	120
Benzo(a)anthracene	1	10	20	40	50	80	100	120
3,3'-Dichlorobenzidene		10	20	40	50	80	100	120
Chrysene	1	10	20	40	50	80	100	120
bis (2-Ethylhexyl) phthalate	1	10	20	40	50	80	100	120
Di-n-octylphthalate	1	10	20	40	50	80	100	120

SW846 8270C//8270D/EPA 625								
Calibration Standard Concentration Levels*								
	Level 1	Level 2	Level 3	Level 4#	Level 5	Level 6	Level 7	Level 8
Benzo(b)fluoranthene	1	10	20	40	50	80	100	120
Benzo(k)fluoranthene	1	10	20	40	50	80	100	120
Benzo(a)pyrene	1	10	20	40	50	80	100	120
Indeno-(1,2,3-cd)pyrene	1	10	20	40	50	80	100	120
Dibenzo(a,h)anthracene	1	10	20	40	50	80	100	120
Benzo(ghi)perylene	1	10	20	40	50	80	100	120
Carbazole	1	10	20	40	50	80	100	120

APPENDIX IX

1,4-Dioxane		10	20	40	50	80	100	120
Methyl methacrylate		10	20	40	50	80	100	120
Ethyl methacrylate		10	20	40	50	80	100	120
2-Picoline		10	20	40	50	80	100	120
N-Nitrosomethylethylamine		10	20	40	50	80	100	120
Methyl methanesulfonate		10	20	40	50	80	100	120
N-Nitrosodiethylamine		10	20	40	50	80	100	120
Ethyl methanesulfonate		10	20	40	50	80	100	120
Pentachloroethane		10	20	40	50	80	100	120
N-Nitrosopyrrolidine		10	20	40	50	80	100	120
N-Nitrosomorpholine		10	20	40	50	80	100	120
o-Toluidine		10	20	40	50	80	100	120
N-Nitrosopiperidine		10	20	40	50	80	100	120
a,a-Dimethhylphenethylamine		10	20	40	50	80	100	120
Triethylphosphorothioate		10	20	40	50	80	100	120
2,6-Dichlorophenol		10	20	40	50	80	100	120
Hexachloropropene		10	20	40	50	80	100	120
p-Phenylenediamine		10	20	40	50	80	100	120
N-Nitrosodi-n-butylamine		10	20	40	50	80	100	120
Safrole		10	20	40	50	80	100	120
1,2,4,5-Tetrachlorobenzene		10	20	40	50	80	100	120
Isosafrole		10	20	40	50	80	100	120
1,4-Naphthoquinone		10	20	40	50	80	100	120
m-Dinitrobenzene		10	20	40	50	80	100	120
Pentachlorobenzene		10	20	40	50	80	100	120
1-Naphthylamine		10	20	40	50	80	100	120
2-Naphthylamine		10	20	40	50	80	100	120
2,3,4,6-Tetrachlorophenol		10	20	40	50	80	100	120
5-Nitro-o-toluidine		10	20	40	50	80	100	120
Thionazin		10	20	40	50	80	100	120
Sulfotepp		10	20	40	50	80	100	120
Phorate		10	20	40	50	80	100	120
1,3,5-Trinitrobenzene		10	20	40	50	80	100	120
Phenacetin		10	20	40	50	80	100	120
Diallate (cis and trans)		10	20	40	50	80	100	120

SW846 8270C//8270D/EPA 625

Calibration Standard Concentration Levels*

	Level 1	Level 2	Level 3	Level 4#	Level 5	Level 6	Level 7	Level 8
Dimethoate		10	20	40	50	80	100	120
4-Aminobiphenyl		10	20	40	50	80	100	120
Pentachloronitrobenzene		10	20	40	50	80	100	120
Pronamide		10	20	40	50	80	100	120
Dinoseb		10	20	40	50	80	100	120
Disulfoton		10	20	40	50	80	100	120
Methyl parathion		10	20	40	50	80	100	120
4-Nitroquinoline oxide		10	20	40	50	80	100	120
Methapyrilene		10	20	40	50	80	100	120
Isodrin		10	20	40	50	80	100	120
Aramite		10	20	40	50	80	100	120
Kepone		10	20	40	50	80	100	120
p-(Dimethylamino)azobenzene		10	20	40	50	80	100	120

Chlorobenzilate		10	20	40	50	80	100	120
3,3'-Dimethylbenzidine		10	20	40	50	80	100	120
Famphur		10	20	40	50	80	100	120
2-Acetylaminofluorene		10	20	40	50	80	100	120
7,12-Dimethylbenz(a)anthracene		10	20	40	50	80	100	120
3-Methylcholanthrene		10	20	40	50	80	100	120
Hexachlorophene		500	1000	1250	1500	1750	2000	
p-Benzoquinone		10	20	40	50	80	100	120
Parathion		10	20	40	50	80	100	120
Methoxychlor		10	20	40	50	80	100	120
2-Ethoxyethanol		50	75	100	125	150	200	250
cis-Diallate		1.5	3	6	7.5	12	15	18
trans-Diallate		8.5	17	34	42	68	85	102
Dibenzo(a,e)pyrene		50	75	100	125	150	200	250
Phthalic anhydride		50	75	100	125	150	200	250
1,4-Dinitrobenzene		50	75	100	125	150	200	250
(2,3-Dibromopropyl)phosphate		50	75	100	125	150	200	250
Methylenebis(2-chloroaniline)		50	75	100	125	150	200	250
p-Toluidine		10	20	40	50	80	100	120
m-Toluidine		10	20	40	50	80	10	120

SW846 8270C//8270D/EPA 625								
Calibration Standard Concentration Levels*								
	Level 1	Level 2	Level 3	Level 4#	Level 5	Level 6	Level 7	Level 8
bis(Chloromethyl)ether		10	20	40	50	80	100	120
Thiophenol		10	20	40	50	80	100	120
4-Chlorothiophenol		10	20	40	50	80	100	120
4-Chlorothio anisole		10	20	40	50	80	100	120
Phthalic acid		10	20	40	50	80	100	120
Hydroxymethyl phthalamide		10	20	40	50	80	100	120
Diphenyl sulfide		10	20	40	50	80	100	120
Diphenyl disulfide		10	20	40	50	80	100	120
Phenyl sulfone		10	20	40	50	80	100	120
Octachlorostyrene		10	20	40	50	80	100	120
2,2'-Dichlorobenzil		10	20	40	50	80	100	120
bis(p-Chlorophenyl)disulfide		10	20	40	50	80	100	120
bis(p-Chlorophenyl)sulfone		10	20	40	50	80	10	120

All values are mg/L without the prep factor.
# Indicates the calibration verification concentration level used
* Usual calibration levels using SCAN methodology
Level 1 may be included at request of client
(06/08)

Report Date: 16-Feb-2009 15:58

Calibration History

Method : /chem/MSD2.i/s021609.b/MSD2-M8270D-020909.m
Start Cal Date: 06-FEB-2009 22:45
End Cal Date : 09-FEB-2009 19:16

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 1.00000		
07-FEB-2009 00:26	MEGAII	/chem/MSD2.i/s020609a.b/s2b0624.d
Cal Level: 2 , Cal Amount: 10.00000		
07-FEB-2009 11:26	HEX	/chem/MSD2.i/s020609a.b/s2b0656.d
07-FEB-2009 08:55	NEV	/chem/MSD2.i/s020609a.b/s2b0649.d
07-FEB-2009 06:24	PEST	/chem/MSD2.i/s020609a.b/s2b0642.d
09-FEB-2009 17:07	AP12	/chem/MSD2.i/s020909.b/s2b0903.d
06-FEB-2009 22:45	MEGAII	/chem/MSD2.i/s020609a.b/s2b0620.d
Cal Level: 3 , Cal Amount: 20.00000		
07-FEB-2009 11:47	HEX	/chem/MSD2.i/s020609a.b/s2b0657.d
07-FEB-2009 09:16	NEV	/chem/MSD2.i/s020609a.b/s2b0650.d
07-FEB-2009 06:46	PEST	/chem/MSD2.i/s020609a.b/s2b0643.d
09-FEB-2009 17:28	AP12	/chem/MSD2.i/s020909.b/s2b0904.d
06-FEB-2009 23:10	MEGAII	/chem/MSD2.i/s020609a.b/s2b0621.d
Cal Level: 4 , Cal Amount: 40.00000		
07-FEB-2009 12:09	HEX	/chem/MSD2.i/s020609a.b/s2b0658.d
07-FEB-2009 09:38	NEV	/chem/MSD2.i/s020609a.b/s2b0651.d
07-FEB-2009 07:07	PEST	/chem/MSD2.i/s020609a.b/s2b0644.d
09-FEB-2009 17:50	AP12	/chem/MSD2.i/s020909.b/s2b0905.d
06-FEB-2009 23:35	MEGAII	/chem/MSD2.i/s020609a.b/s2b0622.d
Cal Level: 5 , Cal Amount: 50.00000		
07-FEB-2009 12:30	HEX	/chem/MSD2.i/s020609a.b/s2b0659.d
07-FEB-2009 10:00	NEV	/chem/MSD2.i/s020609a.b/s2b0652.d
07-FEB-2009 07:29	PEST	/chem/MSD2.i/s020609a.b/s2b0645.d
09-FEB-2009 18:12	AP12	/chem/MSD2.i/s020909.b/s2b0906.d
07-FEB-2009 00:01	MEGAII	/chem/MSD2.i/s020609a.b/s2b0623.d
Cal Level: 6 , Cal Amount: 80.00000		
07-FEB-2009 12:52	HEX	/chem/MSD2.i/s020609a.b/s2b0660.d
07-FEB-2009 10:21	NEV	/chem/MSD2.i/s020609a.b/s2b0653.d
07-FEB-2009 07:50	PEST	/chem/MSD2.i/s020609a.b/s2b0646.d
09-FEB-2009 18:33	AP12	/chem/MSD2.i/s020909.b/s2b0907.d
07-FEB-2009 00:51	MEGAII	/chem/MSD2.i/s020609a.b/s2b0625.d
Cal Level: 7 , Cal Amount: 100.00000		

07-FEB-2009 13:13	HEX	/chem/MSD2.i/s020609a.b/s2b0661.d
07-FEB-2009 10:43	NEV	/chem/MSD2.i/s020609a.b/s2b0654.d
07-FEB-2009 08:12	PEST	/chem/MSD2.i/s020609a.b/s2b0647.d
09-FEB-2009 18:55	AP12	/chem/MSD2.i/s020909.b/s2b0908.d
07-FEB-2009 01:17	MEGAII	/chem/MSD2.i/s020609a.b/s2b0626.d

Cal Level: 8 , Cal Amount: 120.00000		
07-FEB-2009 08:33	PEST	/chem/MSD2.i/s020609a.b/s2b0648.d
09-FEB-2009 19:16	AP12	/chem/MSD2.i/s020909.b/s2b0909.d
07-FEB-2009 01:42	MEGAII	/chem/MSD2.i/s020609a.b/s2b0629.d

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 4

Ccal Level: 4 , Ccal Amount: 40.0		
16-FEB-2009 14:58	PEST	/chem/MSD2.i/s021609.b/s2b1605-D.d
Ccal Level: 4 , Ccal Amount: 40.0		
16-FEB-2009 14:37	AP12	/chem/MSD2.i/s021609.b/s2b1604-D.d
Ccal Level: 4 , Ccal Amount: 40.0		
16-FEB-2009 14:09	MEGAII	/chem/MSD2.i/s021609.b/s2b1603-D.d

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Target Version : 3.50
Integrator : HP RTE
Method file : /chem/MSD2.i/s021609.b/MSD2-M8270D-020909.m
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Calibration File Names:
Level 1: /chem/MSD2.i/s020609a.b/s2b0624.d
Level 2: /chem/MSD2.i/s020609a.b/s2b0656.d
Level 3: /chem/MSD2.i/s020609a.b/s2b0657.d
Level 4: /chem/MSD2.i/s020609a.b/s2b0658.d
Level 5: /chem/MSD2.i/s020609a.b/s2b0659.d
Level 6: /chem/MSD2.i/s020609a.b/s2b0660.d
Level 7: /chem/MSD2.i/s020609a.b/s2b0661.d
Level 8: /chem/MSD2.i/s020609a.b/s2b0648.d

Compound	1 Level 1 / 100 Level 7	10 Level 2 / 120 Level 8	20 Level 3	40 Level 4	50 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
1 N-Methyl-N-nitrosomethylamine	+++++	0.90411	0.92038	0.87802	0.87345	0.85559					
	0.83653	0.83428					AVRG		0.87177		3.73446
2 Pyridine	+++++	1.06630	1.08392	1.07110	1.08224	1.08624					
	1.06769	1.08795					AVRG		1.07792		0.85580
4 Aniline	+++++	0.67167	0.70565	0.67751	0.69545	0.68598					
	0.66506	0.66085					AVRG		0.68031		2.39826
209 Benzaldehyde	+++++	1.07796	1.01685	0.99666	0.95959	0.92586					
	0.88272	0.86384					AVRG		0.96050		7.93728
6 Phenol	+++++	1.65507	1.66071	1.58129	1.54182	1.45613					
	1.40140	1.37570					AVRG		1.52459		7.62562

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Compound	1 Level 1	10 Level 2	20 Level 3	40 Level 4	50 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	100 Level 7	120 Level 8									
7 bis(2-Chloroethyl) ether	1.40416	1.30824	1.34965	1.28122	1.26597	1.20846					
	1.16409	1.14828					AVRG		1.26626		7.04181
8 2-Chlorophenol	+++++	1.34550	1.35483	1.28405	1.24780	1.18656					
	1.13679	1.13124					AVRG		1.24097		7.47629
203 n-Decane	+++++	2.39371	2.35360	2.20930	2.04704	1.83490					
	1.77523	1.69237					AVRG		2.04373		13.91267
9 1,3-Dichlorobenzene	+++++	1.68487	1.67139	1.55409	1.48752	1.36619					
	1.31415	1.30186					AVRG		1.48287		10.88371
11 1,4-Dichlorobenzene	+++++	1.65593	1.61925	1.52191	1.45738	1.33006					
	1.29179	1.25691					AVRG		1.44760		11.02893
12 Benzyl alcohol	+++++	0.87855	0.90582	0.86120	0.86996	0.82296					
	0.81686	0.80562					AVRG		0.85157		4.35090
13 1,2-Dichlorobenzene	+++++	1.56898	1.50622	1.35047	1.24979	1.13752					
	1.10367	1.08087					AVRG		1.28536		15.27892
14 bis(2-Chloroisopropyl)ether	+++++	3.19859	3.27142	3.10230	3.06816	2.86082					
	2.74020	2.63539					AVRG		2.98241		8.05021
15 o-Cresol	+++++	1.07715	1.03296	0.94476	0.90523	0.84654					
	0.83714	0.82423					AVRG		0.92400		10.78727

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Compound	1 Level 1 / 100 Level 7	10 Level 2 / 120 Level 8	20 Level 3	40 Level 4	50 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
16 Acetophenone	+++++	1.90646	1.80192	1.66827	1.62119	1.54978					
	1.50918	1.50686					AVRG		1.65195		9.25836
17 N-Nitrosodipropylamine	1.01496	1.11580	1.15952	1.09475	1.10987	1.05918					
	1.03577	0.98957					AVRG		1.07243		5.35123
18 m,p-Cresols	+++++	1.37619	1.39614	1.33362	1.33601	1.30174					
	1.27077	1.27578					AVRG		1.32718		3.60677
19 Hexachloroethane.	+++++	0.58180	0.59942	0.57125	0.56337	0.52476					
	0.51291	0.50527					AVRG		0.55125		6.65980
21 Nitrobenzene	+++++	0.39395	0.39366	0.35137	0.34396	0.32233					
	0.30678	0.29757					AVRG		0.34423		11.26677
22 Isophorone	+++++	0.72190	0.72548	0.65847	0.64836	0.62705					
	0.59735	0.59061					AVRG		0.65275		8.32419
23 2-Nitrophenol	+++++	0.16289	0.17763	0.15525	0.15211	0.13640					
	0.12775	0.11950					AVRG		0.14736		13.91597
24 2,4-Dimethylphenol	+++++	0.31991	0.31661	0.28230	0.27438	0.24171					
	0.22983	0.21559					AVRG		0.26862		15.34443
25 bis(2-Chloroethoxy)methane	+++++	0.42232	0.40929	0.36133	0.34832	0.31345					
	+++++	+++++					AVRG		0.37094		12.07102

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Compound	1 Level 1 100 Level 7	10 Level 2 120 Level 8	20 Level 3	40 Level 4	50 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
26 2,4-Dichlorophenol	+++++	0.27472	0.27880	0.25151	0.24301	0.22581					
	0.21426	0.20635					AVRG		0.24207		11.70728
27 Benzoic acid	+++++	+++++	0.10557	0.13626	0.15985	0.18003					
	0.17558	0.18443					AVRG		0.15695		19.55646
28 1,2,4-Trichlorobenzene	+++++	0.35617	0.34161	0.30474	0.28431	0.25791					
	0.24501	0.23517					AVRG		0.28927		16.30454
30 Naphthalene	1.15366	1.06081	1.00885	0.86918	0.82284	0.73172					
	+++++	+++++					AVRG		0.94118		16.94033
204 alpha-Terpineol	+++++	0.36844	0.37386	0.33334	0.31835	0.29206					
	0.28164	0.27183					AVRG		0.31993		12.76147
31 4-Chloroaniline	+++++	0.44071	0.41292	0.39686	0.39231	0.36079					
	0.34089	0.32402					AVRG		0.38121		10.83073
189 Caprolactam	+++++	0.09282	0.09971	0.09742	0.10013	0.09432					
	0.09446	0.09227					AVRG		0.09588		3.34968
32 Hexachlorobutadiene	+++++	0.20792	0.20303	0.17870	0.16881	0.15335					
	0.14724	0.14090					AVRG		0.17142		15.49573
33 4-Chloro-3-methylphenol	+++++	0.27817	0.28197	0.25641	0.25507	0.23695					
	+++++	+++++					AVRG		0.26171		7.06318

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Compound	1 Level 1	10 Level 2	20 Level 3	40 Level 4	50 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	100 Level 7	120 Level 8									
34 2-Methylnaphthalene	0.69585	0.64880	0.62625	0.54145	0.51386	0.46178					
	0.43470	0.41948					AVRG		0.54277		19.18764
35 1-Methylnaphthalene	0.77247	0.69195	0.66085	0.56766	0.53230	0.47347					
	+++++	+++++					AVRG		0.61645		18.05221
36 Hexachlorocyclopentadiene	+++++	0.21343	0.21951	0.21339	0.22790	0.22720					
	0.20017	0.18394					AVRG		0.21222		7.37798
208 1,1'-Biphenyl	+++++	1.49726	1.36136	1.24182	1.19815	1.11264					
	1.09974	1.07805					AVRG		1.22700		12.60846
205 2,3-Dichloroaniline	+++++	0.63335	0.61337	0.54881	0.53163	0.47727					
	0.45057	0.43570					AVRG		0.52724		14.67434
37 2,4,6-Trichlorophenol	+++++	0.33340	0.35821	0.32394	0.30692	0.29342					
	0.27294	0.26748					AVRG		0.30804		10.68934
38 2,4,5-Trichlorophenol	+++++	0.36155	0.34520	0.33954	0.34891	0.31290					
	0.31305	0.29297					AVRG		0.33059		7.43299
40 2-Chloronaphthalene	1.20715	1.13595	1.11272	1.00781	0.95297	0.89221					
	0.84962	0.80801					AVRG		0.99580		14.56843
42 o-Nitroaniline	+++++	0.32026	0.34341	0.32358	0.33452	0.33832					
	0.32735	0.31956					AVRG		0.32957		2.82485

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Compound	1 Level 1	10 Level 2	20 Level 3	40 Level 4	50 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	100 Level 7	120 Level 8										
41 m-Nitroaniline	+++++	0.22037	0.19567	0.21779	0.23492	0.23344						
	0.22202	0.20874					AVRG		0.21899		6.24945	
43 Dimethylphthalate	+++++	1.29103	1.32862	1.19382	1.14689	1.08452						
	1.06010	1.01234					AVRG		1.15962		10.22761	
44 2,6-Dinitrotoluene	+++++	0.29094	0.30384	0.28254	0.27312	0.25224						
	0.24369	0.22652					AVRG		0.26756		10.35698	
45 Acenaphthylene	1.82427	1.82833	1.81270	1.61019	1.53450	1.40100						
	1.34398	1.28524					AVRG		1.58003		14.21459	
47 Acenaphthene	1.20048	1.09716	1.05756	0.92771	0.87191	0.80170						
	0.77435	0.75889					AVRG		0.93622		17.61646	<-
48 2,4-Dinitrophenol	+++++	+++++	0.06693	0.08145	0.09702	0.09858						
	0.09437	0.09343					AVRG		0.08863		13.79898	
49 Dibenzofuran	+++++	1.56578	1.53480	1.36788	1.30771	1.19385						
	1.15139	1.08851					AVRG		1.31570		14.11015	
50 2,4-Dinitrotoluene	+++++	0.33354	0.36928	0.34539	0.35509	0.33935						
	0.32349	0.31599					AVRG		0.34030		5.37105	
51 Diethylphthalate	+++++	1.31807	1.31951	1.19185	1.14758	1.07355						
	1.03769	0.99568					AVRG		1.15485		11.22600	

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Compound	1 Level 1 100 Level 7	10 Level 2 120 Level 8	20 Level 3	40 Level 4	50 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
52 4-Nitrophenol	+++++	0.11895	0.14148	0.13748	0.14524	0.15415					
	0.14828	0.14204					AVRG		0.14109		7.89023
53 Fluorene	1.36240	1.30922	1.27152	1.09265	1.01509	0.94966					
	0.91723	+++++					AVRG		1.13111		16.08211
54 4-Chlorophenylphenylether	+++++	0.62647	0.62014	0.55754	0.53288	0.48981					
	0.47195	0.45887					AVRG		0.53681		12.70714
55 2-Methyl-4,6-dinitrophenol	+++++	5084	12570	26393	41934	69571					
	77474	95940					LINR	0.08574	0.11292		0.99705
56 p-Nitroaniline	+++++	0.16703	0.15132	0.16356	0.17832	0.18118					
	0.15783	0.15598					AVRG		0.16503		6.84444
133 Diphenylamine	+++++	0.67778	0.64387	0.57916	0.54832	0.51248					
	0.49466	0.46828					AVRG		0.56065		13.88258
58 1,2-Diphenylhydrazine	+++++	0.85985	0.85718	0.78970	0.76211	0.71732					
	0.69408	0.65548					AVRG		0.76224		10.35177
59 Tributylphosphate	+++++	1.58875	1.40549	1.38446	1.27546	1.19255					
	1.14423	1.13597					AVRG		1.30384		12.71281
61 4-Bromophenylphenylether	+++++	0.23187	0.22397	0.20315	0.19121	0.18119					
	0.17345	0.16690					AVRG		0.19596		12.70232

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Compound	1 Level 1	10 Level 2	20 Level 3	40 Level 4	50 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	100 Level 7	120 Level 8									
63 Hexachlorobenzene	+++++	0.24772	0.24886	0.22209	0.20681	0.19465					
	0.18954	0.18239					AVRG		0.21315		12.75659
207 Atrazine	+++++	0.06199	0.05863	0.05493	0.05200	0.04889					
	0.04692	0.04567					AVRG		0.05272		11.59926
65 Pentachlorophenol	+++++	0.08716	0.11066	0.11783	0.12283	0.11998					
	0.11703	0.11011					AVRG		0.11223		10.68038
206 n-Octadecane	+++++	0.72992	0.73569	0.65653	0.60255	0.54898					
	0.52370	0.48160					AVRG		0.61128		16.36537
68 Phenanthrene	1.33141	1.18724	1.14510	1.00686	0.95334	0.87789					
	0.84413	0.80217					AVRG		1.01852		18.32200
69 Anthracene	1.17233	1.15432	1.12658	1.02128	0.96183	0.88604					
	0.84890	0.80658					AVRG		0.99723		14.41320
72 Di-n-butylphthalate	+++++	1.35325	1.36607	1.24519	1.16151	1.09329					
	1.04633	0.99808					AVRG		1.18053		12.35840
76 Fluoranthene	1.14539	1.12859	1.12722	1.01368	0.96143	0.89448					
	0.86812	0.83058					AVRG		0.99619		12.73403
77 Benzidine	+++++	0.39165	0.37853	0.43520	0.51116	0.54370					
	0.55364	0.54485					AVRG		0.47982		15.86477

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Compound	1 Level 1	10 Level 2	20 Level 3	40 Level 4	50 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	100 Level 7	120 Level 8									
79 Pyrene	1.73256	1.51889	1.45891	1.35509	1.24857	1.23059					
	1.20405	1.18100					AVRG		1.36621		14.08121
85 Butylbenzylphthalate	+++++	0.56837	0.59726	0.58130	0.55983	0.55847					
	0.53190	0.52279					AVRG		0.55999		4.66150
89 Benzo(a)anthracene	1.27777	0.99974	1.03341	0.97984	0.98235	1.00683					
	0.97492	0.98305					AVRG		1.02974		9.90899
90 3,3'-Dichlorobenzidine	+++++	0.26380	0.26314	0.27059	0.31022	0.32397					
	0.30943	0.31104					AVRG		0.29317		8.91365
92 Chrysene	1.27257	1.01421	1.01089	0.95214	0.92158	0.91726					
	0.90959	0.88808					AVRG		0.98579		12.65755
93 bis(2-Ethylhexyl)phthalate	0.65368	0.80010	0.85403	0.83042	0.76861	0.77275					
	0.74422	0.72121					AVRG		0.76813		8.25921
94 Di-n-octylphthalate	+++++	1.49377	1.71979	1.69306	1.67735	1.78252					
	1.66835	1.72718					AVRG		1.68029		5.39535
95 Benzo(b)fluoranthene	1.52167	1.21402	1.29689	1.20376	1.18111	1.25947					
	1.29088	1.19795					AVRG		1.27072		8.68292
96 Benzo(k)fluoranthene	1.64786	1.30515	1.28140	1.23677	1.23468	1.17826					
	1.15037	1.27045					AVRG		1.28812		11.97638

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INITIAL CALIBRATION DATA

Start Cal Date : 06-FEB-2009 22:45
End Cal Date : 09-FEB-2009 19:16
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/MSD2.i/s021609.b/MSD2-M8270D-020909.m
Cal Date : 16-Feb-2009 15:46 ann00964

Compound	1 Level 1	10 Level 2	20 Level 3	40 Level 4	50 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	100 Level 7	120 Level 8									
97 Benzo(a)pyrene	1.19249	1.05323	1.10787	1.09278	1.07721	1.08178					
	1.07078	1.05804					AVRG		1.09177		4.06394
99 Indeno(1,2,3-cd)pyrene	1.29164	0.96419	0.98597	0.99588	0.97957	0.95979					
	0.94416	0.86760					AVRG		0.99860		12.50831
100 Dibenzo(a,h)anthracene	1.02516	0.77278	0.79288	0.80594	0.80924	0.77325					
	0.76243	0.70665					AVRG		0.80604		11.69081
101 Benzo(ghi)perylene	1.07336	0.81106	0.82459	0.84414	0.81908	0.80150					
	0.77818	0.71014					AVRG		0.83276		12.65427
102 1,4-Dioxane	+++++	0.63334	0.60839	0.57040	0.54997	0.51399					
	0.50264	0.48474					AVRG		0.55192		10.07304
103 Methyl methacrylate	+++++	0.33522	0.31097	0.28510	0.27937	0.26079					
	0.23905	0.23144					AVRG		0.27742		13.48086
104 Ethyl methacrylate	+++++	1.40321	1.31984	1.25466	1.23628	1.18200					
	1.14522	1.13352					AVRG		1.23925		7.85966
105 2-Picoline	+++++	1.68224	1.59852	1.50628	1.47470	1.40757					
	1.35243	1.32751					AVRG		1.47846		8.75044
106 N-Nitrosomethylethylamine	+++++	0.75408	0.71173	0.71821	0.70135	0.68586					
	0.68448	0.68288					AVRG		0.70551		3.62148

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Compound	1 Level 1	10 Level 2	20 Level 3	40 Level 4	50 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	100 Level 7	120 Level 8									
107 Methyl methanesulfonate	+++++	0.90279	0.87292	0.83738	0.83548	0.82148					
	0.79845	0.80440					AVRG		0.83899		4.45527
108 N-Nitrosodiethylamine	+++++	0.71396	0.67778	0.65615	0.63725	0.62801					
	0.60735	0.60430					AVRG		0.64640		6.11138
109 Ethyl Methanesulfonate	+++++	1.14889	1.09726	1.06461	1.03749	1.03425					
	1.00228	1.01947					AVRG		1.05775		4.79252
110 Pentachloroethane	+++++	0.60145	0.56706	0.53522	0.51925	0.49606					
	0.47180	0.46442					AVRG		0.52218		9.58578
111 N-Nitrosopyrrolidine	+++++	0.66831	0.69285	0.65162	0.63713	0.60227					
	0.56910	0.56883					AVRG		0.62716		7.72928
113 N-Nitrosomorpholine	+++++	1.11685	1.07627	1.03901	1.03919	1.01493					
	1.01486	0.93698					AVRG		1.03401		5.41994
114 o-Toluidine	+++++	2.21564	2.05644	1.93110	1.89033	1.77695					
	1.68148	1.65869					AVRG		1.88723		10.71061
115 N-Nitrosopiperidine	+++++	0.17750	0.17826	0.17109	0.16799	0.16296					
	0.15969	0.15539					AVRG		0.16756		5.20935
116 a,a-Dimethylphenethylamine	+++++	1.12513	1.19329	1.23508	1.24865	1.25151					
	1.24807	1.19919					AVRG		1.21442		3.79686

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Compound	1 Level 1 100 Level 7	10 Level 2 120 Level 8	20 Level 3	40 Level 4	50 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
117 Triethylphosphorothioate	+++++	0.20181	0.17366	0.15916	0.14291	0.13614					
	0.13208	0.13095					AVRG		0.15382		17.10321
118 2,6-Dichlorophenol	+++++	0.26164	0.26459	0.25594	0.25623	0.25173					
	0.24974	0.23999					AVRG		0.25427		3.20482
119 Hexachloropropene	+++++	0.21345	0.21300	0.21178	0.21151	0.20510					
	0.20361	0.19510					AVRG		0.20765		3.25816
120 p-Phenylenediamine	+++++	0.20852	0.24251	0.26167	0.26123	0.24935					
	0.23625	0.22636					AVRG		0.24084		7.95170
121 N-Nitrosodi-n-butylamine	+++++	0.26424	0.26499	0.24856	0.24241	0.24004					
	0.23979	0.23548					AVRG		0.24793		4.85978
122 Safrole	+++++	0.29072	0.28124	0.26220	0.25123	0.23959					
	0.23548	0.22638					AVRG		0.25526		9.41768
123 1,2,4,5-Tetrachlorobenzene	+++++	0.56915	0.52855	0.48635	0.46328	0.43189					
	0.43258	0.42070					AVRG		0.47607		11.69414
124 Isosafrole	+++++	0.48512	0.45853	0.44296	0.42421	0.41129					
	0.39935	0.39262					AVRG		0.43058		7.78260
125 1,4-Naphthoquinone	+++++	0.37785	0.39941	0.36736	0.33032	0.29777					
	0.27680	+++++					AVRG		0.34158		14.08026

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	100 Level 7	120 Level 8									
126 m-Dinitrobenzene	+++++	0.17704	0.18792	0.18199	0.18624	0.18242					
	0.17355	0.16535					AVRG		0.17922		4.39515
127 Pentachlorobenzene	+++++	0.47864	0.44349	0.40904	0.39456	0.37753					
	0.37347	0.36580					AVRG		0.40608		10.20667
128 1-Naphthylamine	+++++	0.99819	0.93565	0.95424	0.92644	0.88374					
	0.85166	0.83257					AVRG		0.91178		6.44633
129 2-Naphthylamine	+++++	1.00256	0.98969	0.98265	0.94509	0.90189					
	0.86504	0.83943					AVRG		0.93234		6.92385
130 2,3,4,6-Tetrachlorophenol	+++++	0.29022	0.30906	0.27359	0.27978	0.26428					
	0.25473	0.24829					AVRG		0.27428		7.66461
131 5-Nitro-o-toluidine	+++++	0.25624	0.27702	0.29143	0.29807	0.29850					
	0.29431	0.29272					AVRG		0.28690		5.33637
132 Thionazin	+++++	0.23183	0.19909	0.19677	0.17984	0.17467					
	0.16761	0.16626					AVRG		0.18801		12.38505
134 Sulfotepp	+++++	0.12951	0.11211	0.10293	0.09321	0.09235					
	0.08754	0.09444					AVRG		0.10173		14.44752
135 Phorate	+++++	0.58156	0.52677	0.49339	0.45445	0.43447					
	0.41521	0.41830					AVRG		0.47488		13.10202

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Compound	1 Level 1 / 100 Level 7	10 Level 2 / 120 Level 8	20 Level 3	40 Level 4	50 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
136 1,3,5-Trinitrobenzene	+++++	0.12322	0.14544	0.16181	0.16150	0.15776					
	0.15292	0.15230					AVRG		0.15071		8.90207
137 Phenacetin	+++++	0.28161	0.30439	0.29523	0.32003	0.32616					
	0.31252	0.31800					AVRG		0.30828		5.07198
138 Diallate	+++++	0.34199	0.33451	0.30746	0.29265	0.28048					
	0.27005	0.26704					AVRG		0.29917		10.04920
139 Dimethoate	+++++	0.29919	0.27837	0.29193	0.27141	0.26109					
	0.26005	0.26091					AVRG		0.27471		5.77683
140 4-Aminobiphenyl	+++++	0.67752	0.64345	0.56429	0.61944	0.58457					
	0.56808	0.56108					AVRG		0.60263		7.50497
141 Pentachloronitrobenzene	+++++	0.10516	0.10407	0.09582	0.09469	0.08611					
	0.07936	0.07416					AVRG		0.09134		13.03338
142 Pronamide	+++++	0.35701	0.34094	0.30573	0.28915	0.27214					
	0.25381	0.23876					AVRG		0.29394		14.88114
143 Dinoseb	+++++	0.09332	0.13834	0.15945	0.17414	0.17451					
	0.17047	0.16518					AVRG		0.15363		19.12309
144 Disulfoton	+++++	0.49204	0.43836	0.40697	0.36975	0.35060					
	0.33505	0.33925					AVRG		0.39029		15.01167

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	100 Level 7	120 Level 8									
145 Methyl parathion	+++++	0.21129	0.20986	0.22450	0.20733	0.20519					
	0.20280	0.20711					AVRG		0.20973		3.38268
146 4-Nitroquinoline-1-oxide	+++++	0.03467	0.03874	0.03243	0.03448	0.03036					
	0.02741	0.02484					AVRG		0.03185		14.82865
147 Methapyrilene	+++++	0.43961	0.46415	0.43800	0.42378	0.39723					
	0.36361	0.34568					AVRG		0.41030		10.54653
148 Isodrin	+++++	0.14636	0.14596	0.13300	0.12642	0.11933					
	0.11385	0.11254					AVRG		0.12821		11.03703
149 Aramite	+++++	0.04694	0.04994	0.05010	0.04938	0.04833					
	0.04654	0.04570					AVRG		0.04813		3.66088
150 Kepone	+++++	0.07750	0.07588	0.07469	0.07177	0.07029					
	0.06843	0.06898					AVRG		0.07251		4.89678
151 p-(Dimethylamino)azobenzene	+++++	0.30805	0.33380	0.32612	0.32047	0.31768					
	0.30925	0.29825					AVRG		0.31623		3.79798
152 Chlorobenzilate	+++++	0.33606	0.34947	0.34344	0.32878	0.33732					
	0.33532	0.31830					AVRG		0.33553		2.98749
153 3,3'-Dimethylbenzidine	+++++	0.52370	0.53774	0.55174	0.57263	0.58468					
	0.59889	0.60367					AVRG		0.56758		5.41484

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154 Famphur	+++++	0.46481	0.43276	0.43985	0.40235	0.43370						
	0.41570	0.41598					AVRG		0.42931		4.74735	
155 2-Acetylaminofluorene	+++++	0.23984	0.29877	0.31284	0.34272	0.35945						
	0.35788	0.35750					AVRG		0.32414		13.63591	
157 7,12Dimethylbenz(a)anthracene	+++++	0.54371	0.56224	0.58283	0.57826	0.58386						
	0.59671	0.59519					AVRG		0.57754		3.25932	
158 3-Methylcholanthrene	+++++	0.48020	0.48954	0.50521	0.52141	0.53606						
	0.53465	0.54170					AVRG		0.51554		4.70954	
26 Phthalic anhydride	+++++	0.06641	0.08069	0.12287	0.13063	0.12075						
	0.10941	0.11006					AVRG		0.10583		22.30965	<-
173 Carbazole	0.92736	0.88771	0.77873	0.77162	0.79118	0.75146						
	0.71426	0.67819					AVRG		0.78756		10.57529	
174 Hexachlorophene	+++++	76015	281089	482420	530016	725669						
	+++++	+++++					LINR	6.85370	0.09780		0.99795	
179 Dibenzo(a,e)pyrene	+++++	0.42645	0.41615	0.44659	0.46343	0.47213						
	0.43485	0.36503					AVRG		0.43209		8.22958	
185 (2,3-Dibromopropyl)phosphate	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+00		0.000e+00	<-

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184 p-Benzoquinone	+++++	1741	4558	9037	12752	25425					
	28673	+++++					LINR	0.19972	0.16733		0.99419
191 Parathion	+++++	0.08175	0.08090	0.08091	0.07260	0.07173					
	0.07048	0.07193					AVRG		0.07576		6.76501
192 Methoxychlor	+++++	0.60437	0.68280	0.69347	0.67382	0.66756					
	0.65982	0.66113					AVRG		0.66328		4.31218
210 m-Toluidine	+++++	1.44131	1.29805	1.26436	1.50450	1.51528					
	1.50170	1.56488					AVRG		1.44144		8.02146
211 p-Toluidine	+++++	1.21337	1.27984	1.17944	1.19361	1.26064					
	1.16837	1.09679					AVRG		1.19887		5.08947
212 Cis Diallate	+++++	0.33813	0.37178	0.34567	0.33590	0.34392					
	0.33459	0.33469					AVRG		0.34353		3.84760
213 Trans Diallate	+++++	0.40232	0.39314	0.36127	0.34381	0.32997					
	0.31771	0.31424					AVRG		0.35178		10.02604
214 1,4-Dinitrobenzene	+++++	0.20691	0.22989	0.22129	0.21900	0.20746					
	0.21187	0.20030					AVRG		0.21382		4.73800
215 2-Ethoxyethanol	+++++	1.03426	1.09479	1.06615	0.99070	0.97667					
	0.93842	1.01088					AVRG		1.01598		5.28348

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216 Methylenebis(2-chloroaniline)	+++++	0.11874	0.10581	0.11875	0.13354	0.14800					
	0.14635	0.15025					AVRG		0.13164		13.28049
226 2,2'-Dichlorobenzil	+++++	0.82268	0.86361	0.87277	0.87560	0.78750					
	0.81723	+++++					AVRG		0.83990		4.28374
227 4-Chlorothioanisole	+++++	0.27319	0.27501	0.28475	0.27445	0.24973					
	0.24548	+++++					AVRG		0.26710		5.88169
228 4-Chlorothiophenol	+++++	7457	18967	53287	88778	134387					
	143988	+++++					LINR	0.14240	0.21547		0.99380
229 bis(p-Chlorophenyl)sulfone	+++++	0.47581	0.46140	0.46736	0.46443	0.42088					
	0.43183	+++++					AVRG		0.45362		4.83456
230 bis(p-Chlorophenyl)disulfide	+++++	0.26080	0.29201	0.29943	0.30282	0.27243					
	0.27703	+++++					AVRG		0.28409		5.84165
231 Diphenyl disulfide	+++++	0.40313	0.39910	0.40562	0.38581	0.35733					
	0.34571	+++++					AVRG		0.38278		6.64385
232 Diphenyl sulfide	+++++	0.89252	0.85758	0.82272	0.76575	0.71041					
	0.67934	+++++					AVRG		0.78805		10.66089
233 Phenyl sulfone	+++++	0.53852	0.52987	0.51304	0.49965	0.45844					
	0.44543	+++++					AVRG		0.49749		7.63490

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	100 Level 7	120 Level 8									
234 Hydroxymethyl phthalimide	+++++	0.17277	0.16656	0.16067	0.14625	0.11833					
	0.14455	+++++					AVRG		0.15152		12.99681
235 Phthalic acid	+++++	1975	5943	23420	33563	56185					
	73113	+++++					LINR	0.27717	0.10714		0.99167
236 Thiophenol	+++++	0.66649	0.87472	1.02922	1.13368	1.12423					
	1.07240	+++++					AVRG		0.98346		18.45347
237 bis(Chloromethyl)ether	+++++	1.14375	1.11627	1.11578	1.13342	1.06359					
	0.99232	+++++					AVRG		1.09419		5.21232
238 Octachlorostyrene	+++++	0.10085	0.10070	0.09514	0.09386	0.08569					
	0.08191	+++++					AVRG		0.09302		8.36253
M 222 Trichlorophenols	+++++	0.34748	0.35171	0.33174	0.32791	0.30316					
	0.29300	0.28023					AVRG		0.31932		8.62592
M 223 Tetrachlorophenols	+++++	0.29022	0.30906	0.27359	0.27978	0.26428					
	0.25473	0.24829					AVRG		0.27428		7.66461
M 224 Benzo(b,k)fluoranthene	1.58476	1.25959	1.28914	1.22027	1.20790	1.21886					
	1.22062	1.23420					AVRG		1.27942		9.86478
M 225 TTO Sum Semivolatiles	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+00		0.000e+00 <-

GEL Laboratories LLC

INITIAL CALIBRATION DATA

Start Cal Date : 06-FEB-2009 22:45
End Cal Date : 09-FEB-2009 19:16
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/MSD2.i/s021609.b/MSD2-M8270D-020909.m
Cal Date : 16-Feb-2009 15:46 ann00964

Compound	1 Level 1 / 100 Level 7	10 Level 2 / 120 Level 8	20 Level 3	40 Level 4	50 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
$ 3 2-Fluorophenol	++++++	1.30275	1.30814	1.25105	1.22681	1.18168						
	1.14552	1.13557					AVRG		1.22165		5.76411	
$ 5 Phenol-d5	++++++	1.63167	1.61950	1.55030	1.54200	1.45772						
	1.39754	1.38130					AVRG		1.51143		6.69144	
$ 187 2-Chlorophenol-d4	++++++	++++++	++++++	++++++	++++++	++++++						
	++++++	++++++					AVRG		0.000e+00		0.000e+00	<-
$ 188 1,2-Dichlorobenzene-d4	++++++	++++++	++++++	++++++	++++++	++++++						
	++++++	++++++					AVRG		0.000e+00		0.000e+00	<-
$ 20 Nitrobenzene-d5	++++++	0.40841	0.40019	0.35290	0.34817	0.35679						
	0.32031	0.31186					AVRG		0.35695		10.22123	
$ 39 2-Fluorobiphenyl	++++++	1.34116	1.30540	1.16399	1.08373	1.01231						
	0.96927	0.91496					AVRG		1.11297		14.78861	
$ 60 2,4,6-Tribromophenol	++++++	0.13426	0.15238	0.14397	0.14535	0.13717						
	0.13113	0.12879					AVRG		0.13901		6.13538	
$ 81 p-Terphenyl-d14	++++++	0.82672	0.82090	0.77055	0.74743	0.75654						
	0.72800	0.71894					AVRG		0.76701		5.53347	

GEL Laboratories LLC

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Cal Date : 16-Feb-2009 15:46 ann00964

Curve	Formula	Units
Averaged	Amt = Rsp/ml	Response
Linear	Amt = b + Rsp/ml	Response

Report Date: 16-Feb-2009 15:58

Calibration History

Method : /chem/MSD2.i/s021609.b/MSD2-M8270D-020909.m
Start Cal Date: 06-FEB-2009 22:45
End Cal Date : 09-FEB-2009 19:16

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 1.00000		
07-FEB-2009 00:26	MEGAII	/chem/MSD2.i/s020609a.b/s2b0624.d

Injection Date	Sublist	Calibration File
Cal Level: 2 , Cal Amount: 10.00000		
07-FEB-2009 11:26	HEX	/chem/MSD2.i/s020609a.b/s2b0656.d
07-FEB-2009 08:55	NEV	/chem/MSD2.i/s020609a.b/s2b0649.d
07-FEB-2009 06:24	PEST	/chem/MSD2.i/s020609a.b/s2b0642.d
09-FEB-2009 17:07	AP12	/chem/MSD2.i/s020909.b/s2b0903.d
06-FEB-2009 22:45	MEGAII	/chem/MSD2.i/s020609a.b/s2b0620.d

Injection Date	Sublist	Calibration File
Cal Level: 3 , Cal Amount: 20.00000		
07-FEB-2009 11:47	HEX	/chem/MSD2.i/s020609a.b/s2b0657.d
07-FEB-2009 09:16	NEV	/chem/MSD2.i/s020609a.b/s2b0650.d
07-FEB-2009 06:46	PEST	/chem/MSD2.i/s020609a.b/s2b0643.d
09-FEB-2009 17:28	AP12	/chem/MSD2.i/s020909.b/s2b0904.d
06-FEB-2009 23:10	MEGAII	/chem/MSD2.i/s020609a.b/s2b0621.d

Injection Date	Sublist	Calibration File
Cal Level: 4 , Cal Amount: 40.00000		
07-FEB-2009 12:09	HEX	/chem/MSD2.i/s020609a.b/s2b0658.d
07-FEB-2009 09:38	NEV	/chem/MSD2.i/s020609a.b/s2b0651.d
07-FEB-2009 07:07	PEST	/chem/MSD2.i/s020609a.b/s2b0644.d
09-FEB-2009 17:50	AP12	/chem/MSD2.i/s020909.b/s2b0905.d
06-FEB-2009 23:35	MEGAII	/chem/MSD2.i/s020609a.b/s2b0622.d

Injection Date	Sublist	Calibration File
Cal Level: 5 , Cal Amount: 50.00000		
07-FEB-2009 12:30	HEX	/chem/MSD2.i/s020609a.b/s2b0659.d
07-FEB-2009 10:00	NEV	/chem/MSD2.i/s020609a.b/s2b0652.d
07-FEB-2009 07:29	PEST	/chem/MSD2.i/s020609a.b/s2b0645.d
09-FEB-2009 18:12	AP12	/chem/MSD2.i/s020909.b/s2b0906.d
07-FEB-2009 00:01	MEGAII	/chem/MSD2.i/s020609a.b/s2b0623.d

Injection Date	Sublist	Calibration File
Cal Level: 6 , Cal Amount: 80.00000		
07-FEB-2009 12:52	HEX	/chem/MSD2.i/s020609a.b/s2b0660.d
07-FEB-2009 10:21	NEV	/chem/MSD2.i/s020609a.b/s2b0653.d
07-FEB-2009 07:50	PEST	/chem/MSD2.i/s020609a.b/s2b0646.d
09-FEB-2009 18:33	AP12	/chem/MSD2.i/s020909.b/s2b0907.d
07-FEB-2009 00:51	MEGAII	/chem/MSD2.i/s020609a.b/s2b0625.d

Cal Level: 7 , Cal Amount: 100.00000

07-FEB-2009 13:13	HEX	/chem/MSD2.i/s020609a.b/s2b0661.d
07-FEB-2009 10:43	NEV	/chem/MSD2.i/s020609a.b/s2b0654.d
07-FEB-2009 08:12	PEST	/chem/MSD2.i/s020609a.b/s2b0647.d
09-FEB-2009 18:55	AP12	/chem/MSD2.i/s020909.b/s2b0908.d
07-FEB-2009 01:17	MEGAII	/chem/MSD2.i/s020609a.b/s2b0626.d

Cal Level: 8 , Cal Amount: 120.00000		
07-FEB-2009 08:33	PEST	/chem/MSD2.i/s020609a.b/s2b0648.d
09-FEB-2009 19:16	AP12	/chem/MSD2.i/s020909.b/s2b0909.d
07-FEB-2009 01:42	MEGAII	/chem/MSD2.i/s020609a.b/s2b0629.d

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 4

Ccal Level: 4 , Ccal Amount: 40.0		
16-FEB-2009 14:58	PEST	/chem/MSD2.i/s021609.b/s2b1605-D.d
Ccal Level: 4 , Ccal Amount: 40.0		
16-FEB-2009 14:37	AP12	/chem/MSD2.i/s021609.b/s2b1604-D.d
Ccal Level: 4 , Ccal Amount: 40.0		
16-FEB-2009 14:09	MEGAII	/chem/MSD2.i/s021609.b/s2b1603-D.d

GEL Laboratories LLC

INITIAL CALIBRATION DATA

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Method file : /chem/MSD2.i/s021609.b/MSD2-M8270D-020909.m
Cal Date : 16-Feb-2009 15:46 ann00964

Calibration File Names:
Level 1: /chem/MSD2.i/s020609a.b/s2b0624.d
Level 2: /chem/MSD2.i/s020609a.b/s2b0656.d
Level 3: /chem/MSD2.i/s020609a.b/s2b0657.d
Level 4: /chem/MSD2.i/s020609a.b/s2b0658.d
Level 5: /chem/MSD2.i/s020609a.b/s2b0659.d
Level 6: /chem/MSD2.i/s020609a.b/s2b0660.d
Level 7: /chem/MSD2.i/s020609a.b/s2b0661.d
Level 8: /chem/MSD2.i/s020609a.b/s2b0648.d

Compound	1 Level 1	10 Level 2	20 Level 3	40 Level 4	50 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	100 Level 7	120 Level 8									
1 N-Methyl-N-nitrosomethylamine	+++++	0.90411	0.92038	0.87802	0.87345	0.85559					
	0.83653	0.83428					AVRG		0.87177		3.73446
2 Pyridine	+++++	1.06630	1.08392	1.07110	1.08224	1.08624					
	1.06769	1.08795					AVRG		1.07792		0.85580
4 Aniline	+++++	0.67167	0.70565	0.67751	0.69545	0.68598					
	0.66506	0.66085					AVRG		0.68031		2.39826
209 Benzaldehyde	+++++	1.07796	1.01685	0.99666	0.95959	0.92586					
	0.88272	0.86384					AVRG		0.96050		7.93728
6 Phenol	+++++	1.65507	1.66071	1.58129	1.54182	1.45613					
	1.40140	1.37570					AVRG		1.52459		7.62562

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Compound	1 Level 1	10 Level 2	20 Level 3	40 Level 4	50 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	100 Level 7	120 Level 8									
7 bis(2-Chloroethyl) ether	1.40416	1.30824	1.34965	1.28122	1.26597	1.20846					
	1.16409	1.14828					AVRG		1.26626		7.04181
8 2-Chlorophenol	++++++	1.34550	1.35483	1.28405	1.24780	1.18656					
	1.13679	1.13124					AVRG		1.24097		7.47629
203 n-Decane	++++++	2.39371	2.35360	2.20930	2.04704	1.83490					
	1.77523	1.69237					AVRG		2.04373		13.91267
9 1,3-Dichlorobenzene	++++++	1.68487	1.67139	1.55409	1.48752	1.36619					
	1.31415	1.30186					AVRG		1.48287		10.88371
11 1,4-Dichlorobenzene	++++++	1.65593	1.61925	1.52191	1.45738	1.33006					
	1.29179	1.25691					AVRG		1.44760		11.02893
12 Benzyl alcohol	++++++	0.87855	0.90582	0.86120	0.86996	0.82296					
	0.81686	0.80562					AVRG		0.85157		4.35090
13 1,2-Dichlorobenzene	++++++	1.56898	1.50622	1.35047	1.24979	1.13752					
	1.10367	1.08087					AVRG		1.28536		15.27892
14 bis(2-Chloroisopropyl)ether	++++++	3.19859	3.27142	3.10230	3.06816	2.86082					
	2.74020	2.63539					AVRG		2.98241		8.05021
15 o-Cresol	++++++	1.07715	1.03296	0.94476	0.90523	0.84654					
	0.83714	0.82423					AVRG		0.92400		10.78727

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Compound	1 Level 1 / 100 Level 7	10 Level 2 / 120 Level 8	20 Level 3	40 Level 4	50 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
16 Acetophenone	+++++	1.90646	1.80192	1.66827	1.62119	1.54978					
	1.50918	1.50686					AVRG		1.65195		9.25836
17 N-Nitrosodipropylamine	1.01496	1.11580	1.15952	1.09475	1.10987	1.05918					
	1.03577	0.98957					AVRG		1.07243		5.35123
18 m,p-Cresols	+++++	1.37619	1.39614	1.33362	1.33601	1.30174					
	1.27077	1.27578					AVRG		1.32718		3.60677
19 Hexachloroethane	+++++	0.58180	0.59942	0.57125	0.56337	0.52476					
	0.51291	0.50527					AVRG		0.55125		6.65980
21 Nitrobenzene	+++++	0.39395	0.39366	0.35137	0.34396	0.32233					
	0.30678	0.29757					AVRG		0.34423		11.26677
22 Isophorone	+++++	0.72190	0.72548	0.65847	0.64836	0.62705					
	0.59735	0.59061					AVRG		0.65275		8.32419
23 2-Nitrophenol	+++++	0.16289	0.17763	0.15525	0.15211	0.13640					
	0.12775	0.11950					AVRG		0.14736		13.91597
24 2,4-Dimethylphenol	+++++	0.31991	0.31661	0.28230	0.27438	0.24171					
	0.22983	0.21559					AVRG		0.26862		15.34443
25 bis(2-Chloroethoxy)methane	+++++	0.42232	0.40929	0.36133	0.34832	0.31345					
	+++++	+++++					AVRG		0.37094		12.07102

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Compound	1 Level 1	10 Level 2	20 Level 3	40 Level 4	50 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	100 Level 7	120 Level 8									
26 2,4-Dichlorophenol	+++++	0.27472	0.27880	0.25151	0.24301	0.22581					
	0.21426	0.20635					AVRG		0.24207		11.70728
27 Benzoic acid	+++++	+++++	0.10557	0.13626	0.15985	0.18003					
	0.17558	0.18443					AVRG		0.15695		19.55646
28 1,2,4-Trichlorobenzene	+++++	0.35617	0.34161	0.30474	0.28431	0.25791					
	0.24501	0.23517					AVRG		0.28927		16.30454
30 Naphthalene	1.15366	1.06081	1.00885	0.86918	0.82284	0.73172					
	+++++	+++++					AVRG		0.94118		16.94033
204 alpha-Terpineol	+++++	0.36844	0.37386	0.33334	0.31835	0.29206					
	0.28164	0.27183					AVRG		0.31993		12.76147
31 4-Chloroaniline	+++++	0.44071	0.41292	0.39686	0.39231	0.36079					
	0.34089	0.32402					AVRG		0.38121		10.83073
189 Caprolactam	+++++	0.09282	0.09971	0.09742	0.10013	0.09432					
	0.09446	0.09227					AVRG		0.09588		3.34968
32 Hexachlorobutadiene	+++++	0.20792	0.20303	0.17870	0.16881	0.15335					
	0.14724	0.14090					AVRG		0.17142		15.49573
33 4-Chloro-3-methylphenol	+++++	0.27817	0.28197	0.25641	0.25507	0.23695					
	+++++	+++++					AVRG		0.26171		7.06318

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Compound	1 Level 1 / 100 Level 7	10 Level 2 / 120 Level 8	20 Level 3	40 Level 4	50 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
34 2-Methylnaphthalene	0.69585	0.64880	0.62625	0.54145	0.51386	0.46178					
	0.43470	0.41948					AVRG		0.54277		19.18764
35 1-Methylnaphthalene	0.77247	0.69195	0.66085	0.56766	0.53230	0.47347					
	+++++	+++++					AVRG		0.61645		18.05221
36 Hexachlorocyclopentadiene	+++++	0.21343	0.21951	0.21339	0.22790	0.22720					
	0.20017	0.18394					AVRG		0.21222		7.37798
208 1,1'-Biphenyl	+++++	1.49726	1.36136	1.24182	1.19815	1.11264					
	1.09974	1.07805					AVRG		1.22700		12.60846
205 2,3-Dichloroaniline	+++++	0.63335	0.61337	0.54881	0.53163	0.47727					
	0.45057	0.43570					AVRG		0.52724		14.67434
37 2,4,6-Trichlorophenol	+++++	0.33340	0.35821	0.32394	0.30692	0.29342					
	0.27294	0.26748					AVRG		0.30804		10.68934
38 2,4,5-Trichlorophenol	+++++	0.36155	0.34520	0.33954	0.34891	0.31290					
	0.31305	0.29297					AVRG		0.33059		7.43299
40 2-Chloronaphthalene	1.20715	1.13595	1.11272	1.00781	0.95297	0.89221					
	0.84962	0.80801					AVRG		0.99580		14.56843
42 o-Nitroaniline	+++++	0.32026	0.34341	0.32358	0.33452	0.33832					
	0.32735	0.31956					AVRG		0.32957		2.82485

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Compound	1 Level 1	10 Level 2	20 Level 3	40 Level 4	50 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	100 Level 7	120 Level 8										
41 m-Nitroaniline	+++++	0.22037	0.19567	0.21779	0.23492	0.23344						
	0.22202	0.20874					AVRG		0.21899		6.24945	
43 Dimethylphthalate	+++++	1.29103	1.32862	1.19382	1.14689	1.08452						
	1.06010	1.01234					AVRG		1.15962		10.22761	
44 2,6-Dinitrotoluene	+++++	0.29094	0.30384	0.28254	0.27312	0.25224						
	0.24369	0.22652					AVRG		0.26756		10.35698	
45 Acenaphthylene	1.82427	1.82833	1.81270	1.61019	1.53450	1.40100						
	1.34398	1.28524					AVRG		1.58003		14.21459	
47 Acenaphthene	1.20048	1.09716	1.05756	0.92771	0.87191	0.80170						
	0.77435	0.75889					AVRG		0.93622		17.61646	<-
48 2,4-Dinitrophenol	+++++	+++++	0.06693	0.08145	0.09702	0.09858						
	0.09437	0.09343					AVRG		0.08863		13.79898	
49 Dibenzofuran	+++++	1.56578	1.53480	1.36788	1.30771	1.19385						
	1.15139	1.08851					AVRG		1.31570		14.11015	
50 2,4-Dinitrotoluene	+++++	0.33354	0.36928	0.34539	0.35509	0.33935						
	0.32349	0.31599					AVRG		0.34030		5.37105	
51 Diethylphthalate	+++++	1.31807	1.31951	1.19185	1.14758	1.07355						
	1.03769	0.99568					AVRG		1.15485		11.22600	

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Compound	1 Level 1	10 Level 2	20 Level 3	40 Level 4	50 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	100 Level 7	120 Level 8									
52 4-Nitrophenol	+++++	0.11895	0.14148	0.13748	0.14524	0.15415					
	0.14828	0.14204					AVRG		0.14109		7.89023
53 Fluorene	1.36240	1.30922	1.27152	1.09265	1.01509	0.94966					
	0.91723	+++++					AVRG		1.13111		16.08211
54 4-Chlorophenylphenylether	+++++	0.62647	0.62014	0.55754	0.53288	0.48981					
	0.47195	0.45887					AVRG		0.53681		12.70714
55 2-Methyl-4,6-dinitrophenol	+++++	5084	12570	26393	41934	69571					
	77474	95940					LINR	0.08574	0.11292		0.99705
56 p-Nitroaniline	+++++	0.16703	0.15132	0.16356	0.17832	0.18118					
	0.15783	0.15598					AVRG		0.16503		6.84444
133 Diphenylamine	+++++	0.67778	0.64387	0.57916	0.54832	0.51248					
	0.49466	0.46828					AVRG		0.56065		13.88258
58 1,2-Diphenylhydrazine	+++++	0.85985	0.85718	0.78970	0.76211	0.71732					
	0.69408	0.65548					AVRG		0.76224		10.35177
59 Tributylphosphate	+++++	1.58875	1.40549	1.38446	1.27546	1.19255					
	1.14423	1.13597					AVRG		1.30384		12.71281
61 4-Bromophenylphenylether	+++++	0.23187	0.22397	0.20315	0.19121	0.18119					
	0.17345	0.16690					AVRG		0.19596		12.70232

GEL Laboratories LLC

INITIAL CALIBRATION DATA

Start Cal Date : 06-FEB-2009 22:45
End Cal Date : 09-FEB-2009 19:16
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/MSD2.i/s021609.b/MSD2-M8270D-020909.m
Cal Date : 16-Feb-2009 15:46 ann00964

Compound	1 Level 1	10 Level 2	20 Level 3	40 Level 4	50 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	100 Level 7	120 Level 8									
63 Hexachlorobenzene	+++++	0.24772	0.24886	0.22209	0.20681	0.19465					
	0.18954	0.18239					AVRG		0.21315		12.75659
207 Atrazine	+++++	0.06199	0.05863	0.05493	0.05200	0.04889					
	0.04692	0.04567					AVRG		0.05272		11.59926
65 Pentachlorophenol	+++++	0.08716	0.11066	0.11783	0.12283	0.11998					
	0.11703	0.11011					AVRG		0.11223		10.68038
206 n-Octadecane	+++++	0.72992	0.73569	0.65653	0.60255	0.54898					
	0.52370	0.48160					AVRG		0.61128		16.36537
68 Phenanthrene	1.33141	1.18724	1.14510	1.00686	0.95334	0.87789					
	0.84413	0.80217					AVRG		1.01852		18.32200
69 Anthracene	1.17233	1.15432	1.12658	1.02128	0.96183	0.88604					
	0.84890	0.80658					AVRG		0.99723		14.41320
72 Di-n-butylphthalate	+++++	1.35325	1.36607	1.24519	1.16151	1.09329					
	1.04633	0.99808					AVRG		1.18053		12.35840
76 Fluoranthene	1.14539	1.12859	1.12722	1.01368	0.96143	0.89448					
	0.86812	0.83058					AVRG		0.99619		12.73403
77 Benzidine	+++++	0.39165	0.37853	0.43520	0.51116	0.54370					
	0.55364	0.54485					AVRG		0.47982		15.86477

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Compound	1 Level 1	10 Level 2	20 Level 3	40 Level 4	50 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	100 Level 7	120 Level 8									
79 Pyrene	1.73256	1.51889	1.45891	1.35509	1.24857	1.23059					
	1.20405	1.18100					AVRG		1.36621		14.08121
85 Butylbenzylphthalate	+++++	0.56837	0.59726	0.58130	0.55983	0.55847					
	0.53190	0.52279					AVRG		0.55999		4.66150
89 Benzo(a)anthracene	1.27777	0.99974	1.03341	0.97984	0.98235	1.00683					
	0.97492	0.98305					AVRG		1.02974		9.90899
90 3,3'-Dichlorobenzidine	+++++	0.26380	0.26314	0.27059	0.31022	0.32397					
	0.30943	0.31104					AVRG		0.29317		8.91365
92 Chrysene	1.27257	1.01421	1.01089	0.95214	0.92158	0.91726					
	0.90959	0.88808					AVRG		0.98579		12.65755
93 bis(2-Ethylhexyl)phthalate	0.65368	0.80010	0.85403	0.83042	0.76861	0.77275					
	0.74422	0.72121					AVRG		0.76813		8.25921
94 Di-n-octylphthalate	+++++	1.49377	1.71979	1.69306	1.67735	1.78252					
	1.66835	1.72718					AVRG		1.68029		5.39535
95 Benzo(b)fluoranthene	1.52167	1.21402	1.29689	1.20376	1.18111	1.25947					
	1.29088	1.19795					AVRG		1.27072		8.68292
96 Benzo(k)fluoranthene	1.64786	1.30515	1.28140	1.23677	1.23468	1.17826					
	1.15037	1.27045					AVRG		1.28812		11.97638

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Compound	1 Level 1	10 Level 2	20 Level 3	40 Level 4	50 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	100 Level 7	120 Level 8									
97 Benzo(a)pyrene	1.19249	1.05323	1.10787	1.09278	1.07721	1.08178					
	1.07078	1.05804					AVRG		1.09177		4.06394
99 Indeno(1,2,3-cd)pyrene	1.29164	0.96419	0.98597	0.99588	0.97957	0.95979					
	0.94416	0.86760					AVRG		0.99860		12.50831
100 Dibenzo(a,h)anthracene	1.02516	0.77278	0.79288	0.80594	0.80924	0.77325					
	0.76243	0.70665					AVRG		0.80604		11.69081
101 Benzo(ghi)perylene	1.07336	0.81106	0.82459	0.84414	0.81908	0.80150					
	0.77818	0.71014					AVRG		0.83276		12.65427
102 1,4-Dioxane	+++++	0.63334	0.60839	0.57040	0.54997	0.51399					
	0.50264	0.48474					AVRG		0.55192		10.07304
103 Methyl methacrylate	+++++	0.33522	0.31097	0.28510	0.27937	0.26079					
	0.23905	0.23144					AVRG		0.27742		13.48086
104 Ethyl methacrylate	+++++	1.40321	1.31984	1.25466	1.23628	1.18200					
	1.14522	1.13352					AVRG		1.23925		7.85966
105 2-Picoline	+++++	1.68224	1.59852	1.50628	1.47470	1.40757					
	1.35243	1.32751					AVRG		1.47846		8.75044
106 N-Nitrosomethylethylamine	+++++	0.75408	0.71173	0.71821	0.70135	0.68586					
	0.68448	0.68288					AVRG		0.70551		3.62148

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	100 Level 7	120 Level 8									
107 Methyl methanesulfonate	+++++	0.90279	0.87292	0.83738	0.83548	0.82148					
	0.79845	0.80440					AVRG		0.83899		4.45527
108 N-Nitrosodiethylamine	+++++	0.71396	0.67778	0.65615	0.63725	0.62801					
	0.60735	0.60430					AVRG		0.64640		6.11138
109 Ethyl Methanesulfonate	+++++	1.14889	1.09726	1.06461	1.03749	1.03425					
	1.00228	1.01947					AVRG		1.05775		4.79252
110 Pentachloroethane	+++++	0.60145	0.56706	0.53522	0.51925	0.49606					
	0.47180	0.46442					AVRG		0.52218		9.58578
111 N-Nitrosopyrrolidine	+++++	0.66831	0.69285	0.65162	0.63713	0.60227					
	0.56910	0.56883					AVRG		0.62716		7.72928
113 N-Nitrosomorpholine	+++++	1.11685	1.07627	1.03901	1.03919	1.01493					
	1.01486	0.93698					AVRG		1.03401		5.41994
114 o-Toluidine	+++++	2.21564	2.05644	1.93110	1.89033	1.77695					
	1.68148	1.65869					AVRG		1.88723		10.71061
115 N-Nitrosopiperidine	+++++	0.17750	0.17826	0.17109	0.16799	0.16296					
	0.15969	0.15539					AVRG		0.16756		5.20935
116 a,a-Dimethylphenethylamine	+++++	1.12513	1.19329	1.23508	1.24865	1.25151					
	1.24807	1.19919					AVRG		1.21442		3.79686

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	100 Level 7	120 Level 8									
117 Triethylphosphorothioate	+++++	0.20181	0.17366	0.15916	0.14291	0.13614					
	0.13208	0.13095					AVRG		0.15382		17.10321
118 2,6-Dichlorophenol	+++++	0.26164	0.26459	0.25594	0.25623	0.25173					
	0.24974	0.23999					AVRG		0.25427		3.20482
119 Hexachloropropene	+++++	0.21345	0.21300	0.21178	0.21151	0.20510					
	0.20361	0.19510					AVRG		0.20765		3.25816
120 p-Phenylenediamine	+++++	0.20852	0.24251	0.26167	0.26123	0.24935					
	0.23625	0.22636					AVRG		0.24084		7.95170
121 N-Nitrosodi-n-butylamine	+++++	0.26424	0.26499	0.24856	0.24241	0.24004					
	0.23979	0.23548					AVRG		0.24793		4.85978
122 Safrole	+++++	0.29072	0.28124	0.26220	0.25123	0.23959					
	0.23548	0.22638					AVRG		0.25526		9.41768
123 1,2,4,5-Tetrachlorobenzene	+++++	0.56915	0.52855	0.48635	0.46328	0.43189					
	0.43258	0.42070					AVRG		0.47607		11.69414
124 Isosafrole	+++++	0.48512	0.45853	0.44296	0.42421	0.41129					
	0.39935	0.39262					AVRG		0.43058		7.78260
125 1,4-Naphthoquinone	+++++	0.37785	0.39941	0.36736	0.33032	0.29777					
	0.27680	+++++					AVRG		0.34158		14.08026

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	100 Level 7	120 Level 8									
126 m-Dinitrobenzene	+++++	0.17704	0.18792	0.18199	0.18624	0.18242					
	0.17355	0.16535					AVRG		0.17922		4.39515
127 Pentachlorobenzene	+++++	0.47864	0.44349	0.40904	0.39456	0.37753					
	0.37347	0.36580					AVRG		0.40608		10.20667
128 1-Naphthylamine	+++++	0.99819	0.93565	0.95424	0.92644	0.88374					
	0.85166	0.83257					AVRG		0.91178		6.44633
129 2-Naphthylamine	+++++	1.00256	0.98969	0.98265	0.94509	0.90189					
	0.86504	0.83943					AVRG		0.93234		6.92385
130 2,3,4,6-Tetrachlorophenol	+++++	0.29022	0.30906	0.27359	0.27978	0.26428					
	0.25473	0.24829					AVRG		0.27428		7.66461
131 5-Nitro-o-toluidine	+++++	0.25624	0.27702	0.29143	0.29807	0.29850					
	0.29431	0.29272					AVRG		0.28690		5.33637
132 Thionazin	+++++	0.23183	0.19909	0.19677	0.17984	0.17467					
	0.16761	0.16626					AVRG		0.18801		12.38505
134 Sulfotepp	+++++	0.12951	0.11211	0.10293	0.09321	0.09235					
	0.08754	0.09444					AVRG		0.10173		14.44752
135 Phorate	+++++	0.58156	0.52677	0.49339	0.45445	0.43447					
	0.41521	0.41830					AVRG		0.47488		13.10202

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	100 Level 7	120 Level 8									
136 1,3,5-Trinitrobenzene	+++++	0.12322	0.14544	0.16181	0.16150	0.15776					
	0.15292	0.15230					AVRG		0.15071		8.90207
137 Phenacetin	+++++	0.28161	0.30439	0.29523	0.32003	0.32616					
	0.31252	0.31800					AVRG		0.30828		5.07198
138 Diallate	+++++	0.34199	0.33451	0.30746	0.29265	0.28048					
	0.27005	0.26704					AVRG		0.29917		10.04920
139 Dimethoate	+++++	0.29919	0.27837	0.29193	0.27141	0.26109					
	0.26005	0.26091					AVRG		0.27471		5.77683
140 4-Aminobiphenyl	+++++	0.67752	0.64345	0.56429	0.61944	0.58457					
	0.56808	0.56108					AVRG		0.60263		7.50497
141 Pentachloronitrobenzene	+++++	0.10516	0.10407	0.09582	0.09469	0.08611					
	0.07936	0.07416					AVRG		0.09134		13.03338
142 Pronamide	+++++	0.35701	0.34094	0.30573	0.28915	0.27214					
	0.25381	0.23876					AVRG		0.29394		14.88114
143 Dinoseb	+++++	0.09332	0.13834	0.15945	0.17414	0.17451					
	0.17047	0.16518					AVRG		0.15363		19.12309
144 Disulfoton	+++++	0.49204	0.43836	0.40697	0.36975	0.35060					
	0.33505	0.33925					AVRG		0.39029		15.01167

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	100 Level 7	120 Level 8									
145 Methyl parathion	+++++	0.21129	0.20986	0.22450	0.20733	0.20519					
	0.20280	0.20711					AVRG		0.20973		3.38268
146 4-Nitroquinoline-1-oxide	+++++	0.03467	0.03874	0.03243	0.03448	0.03036					
	0.02741	0.02484					AVRG		0.03185		14.82865
147 Methapyrilene	+++++	0.43961	0.46415	0.43800	0.42378	0.39723					
	0.36361	0.34568					AVRG		0.41030		10.54653
148 Isodrin	+++++	0.14636	0.14596	0.13300	0.12642	0.11933					
	0.11385	0.11254					AVRG		0.12821		11.03703
149 Aramite	+++++	0.04694	0.04994	0.05010	0.04938	0.04833					
	0.04654	0.04570					AVRG		0.04813		3.66088
150 Kepone	+++++	0.07750	0.07588	0.07469	0.07177	0.07029					
	0.06843	0.06898					AVRG		0.07251		4.89678
151 p-(Dimethylamino)azobenzene	+++++	0.30805	0.33380	0.32612	0.32047	0.31768					
	0.30925	0.29825					AVRG		0.31623		3.79798
152 Chlorobenzilate	+++++	0.33606	0.34947	0.34344	0.32878	0.33732					
	0.33532	0.31830					AVRG		0.33553		2.98749
153 3,3'-Dimethylbenzidine	+++++	0.52370	0.53774	0.55174	0.57263	0.58468					
	0.59889	0.60367					AVRG		0.56758		5.41484

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	100 Level 7	120 Level 8										
154 Famphur	+++++	0.46481	0.43276	0.43985	0.40235	0.43370						
	0.41570	0.41598					AVRG		0.42931		4.74735	
155 2-Acetylaminofluorene	+++++	0.23984	0.29877	0.31284	0.34272	0.35945						
	0.35788	0.35750					AVRG		0.32414		13.63591	
157 7,12Dimethylbenz(a)anthracene	+++++	0.54371	0.56224	0.58283	0.57826	0.58386						
	0.59671	0.59519					AVRG		0.57754		3.25932	
158 3-Methylcholanthrene	+++++	0.48020	0.48954	0.50521	0.52141	0.53606						
	0.53465	0.54170					AVRG		0.51554		4.70954	
26 Phthalic anhydride	+++++	0.06641	0.08069	0.12287	0.13063	0.12075						
	0.10941	0.11006					AVRG		0.10583		22.30965	<-
173 Carbazole	0.92736	0.88771	0.77873	0.77162	0.79118	0.75146						
	0.71426	0.67819					AVRG		0.78756		10.57529	
174 Hexachlorophene	+++++	76015	281089	482420	530016	725669						
	+++++	+++++					LINR	6.85370	0.09780		0.99795	
179 Dibenzo(a,e)pyrene	+++++	0.42645	0.41615	0.44659	0.46343	0.47213						
	0.43485	0.36503					AVRG		0.43209		8.22958	
185 (2,3-Dibromopropyl)phosphate	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+00		0.000e+00	<-

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184 p-Benzoquinone	+++++	1741	4558	9037	12752	25425					
	28673	+++++					LINR	0.19972	0.16733		0.99419
191 Parathion	+++++	0.08175	0.08090	0.08091	0.07260	0.07173					
	0.07048	0.07193					AVRG		0.07576		6.76501
192 Methoxychlor	+++++	0.60437	0.68280	0.69347	0.67382	0.66756					
	0.65982	0.66113					AVRG		0.66328		4.31218
210 m-Toluidine	+++++	1.44131	1.29805	1.26436	1.50450	1.51528					
	1.50170	1.56488					AVRG		1.44144		8.02146
211 p-Toluidine	+++++	1.21337	1.27984	1.17944	1.19361	1.26064					
	1.16837	1.09679					AVRG		1.19887		5.08947
212 Cis Diallate	+++++	0.33813	0.37178	0.34567	0.33590	0.34392					
	0.33459	0.33469					AVRG		0.34353		3.84760
213 Trans Diallate	+++++	0.40232	0.39314	0.36127	0.34381	0.32997					
	0.31771	0.31424					AVRG		0.35178		10.02604
214 1,4-Dinitrobenzene	+++++	0.20691	0.22989	0.22129	0.21900	0.20746					
	0.21187	0.20030					AVRG		0.21382		4.73800
215 2-Ethoxyethanol	+++++	1.03426	1.09479	1.06615	0.99070	0.97667					
	0.93842	1.01088					AVRG		1.01598		5.28348

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	100 Level 7	120 Level 8									
216 Methylenebis(2-chloroaniline)	+++++	0.11874	0.10581	0.11875	0.13354	0.14800					
	0.14635	0.15025					AVRG		0.13164		13.28049
226 2,2'-Dichlorobenzil	+++++	0.82268	0.86361	0.87277	0.87560	0.78750					
	0.81723	+++++					AVRG		0.83990		4.28374
227 4-Chlorothioanisole	+++++	0.27319	0.27501	0.28475	0.27445	0.24973					
	0.24548	+++++					AVRG		0.26710		5.88169
228 4-Chlorothiophenol	+++++	7457	18967	53287	88778	134387					
	143988	+++++					LINR	0.14240	0.21547		0.99380
229 bis(p-Chlorophenyl)sulfone	+++++	0.47581	0.46140	0.46736	0.46443	0.42088					
	0.43183	+++++					AVRG		0.45362		4.83456
230 bis(p-Chlorophenyl)disulfide	+++++	0.26080	0.29201	0.29943	0.30282	0.27243					
	0.27703	+++++					AVRG		0.28409		5.84165
231 Diphenyl disulfide	+++++	0.40313	0.39910	0.40562	0.38581	0.35733					
	0.34571	+++++					AVRG		0.38278		6.64385
232 Diphenyl sulfide	+++++	0.89252	0.85758	0.82272	0.76575	0.71041					
	0.67934	+++++					AVRG		0.78805		10.66089
233 Phenyl sulfone	+++++	0.53852	0.52987	0.51304	0.49965	0.45844					
	0.44543	+++++					AVRG		0.49749		7.63490

GEL Laboratories LLC

INITIAL CALIBRATION DATA

Start Cal Date : 06-FEB-2009 22:45
End Cal Date : 09-FEB-2009 19:16
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/MSD2.i/s021609.b/MSD2-M8270D-020909.m
Cal Date : 16-Feb-2009 15:46 ann00964

Compound	1 Level 1	10 Level 2	20 Level 3	40 Level 4	50 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	100 Level 7	120 Level 8									
234 Hydroxymethyl phthalimide	+++++	0.17277	0.16656	0.16067	0.14625	0.11833					
	0.14455	+++++					AVRG		0.15152		12.99681
235 Phthalic acid	+++++	1975	5943	23420	33563	56185					
	73113	+++++					LINR	0.27717	0.10714		0.99167
236 Thiophenol	+++++	0.66649	0.87472	1.02922	1.13368	1.12423					
	1.07240	+++++					AVRG		0.98346		18.45347
237 bis(Chloromethyl)ether	+++++	1.14375	1.11627	1.11578	1.13342	1.06359					
	0.99232	+++++					AVRG		1.09419		5.21232
238 Octachlorostyrene	+++++	0.10085	0.10070	0.09514	0.09386	0.08569					
	0.08191	+++++					AVRG		0.09302		8.36253
M 222 Trichlorophenols	+++++	0.34748	0.35171	0.33174	0.32791	0.30316					
	0.29300	0.28023					AVRG		0.31932		8.62592
M 223 Tetrachlorophenols	+++++	0.29022	0.30906	0.27359	0.27978	0.26428					
	0.25473	0.24829					AVRG		0.27428		7.66461
M 224 Benzo(b,k)fluoranthene	1.58476	1.25959	1.28914	1.22027	1.20790	1.21886					
	1.22062	1.23420					AVRG		1.27942		9.86478
M 225 TTO Sum Semivolatiles	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+00		0.000e+00 <-

GEL Laboratories LLC

INITIAL CALIBRATION DATA

Start Cal Date : 06-FEB-2009 22:45
End Cal Date : 09-FEB-2009 19:16
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/MSD2.i/s021609.b/MSD2-M8270D-020909.m
Cal Date : 16-Feb-2009 15:46 ann00964

Compound	1 Level 1 100 Level 7	10 Level 2 120 Level 8	20 Level 3	40 Level 4	50 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
$ 3 2-Fluorophenol	+++++	1.30275	1.30814	1.25105	1.22681	1.18168						
	1.14552	1.13557					AVRG		1.22165		5.76411	
$ 5 Phenol-d5	+++++	1.63167	1.61950	1.55030	1.54200	1.45772						
	1.39754	1.38130					AVRG		1.51143		6.69144	
$ 187 2-Chlorophenol-d4	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+00		0.000e+00	<-
$ 188 1,2-Dichlorobenzene-d4	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+00		0.000e+00	<-
$ 20 Nitrobenzene-d5	+++++	0.40841	0.40019	0.35290	0.34817	0.35679						
	0.32031	0.31186					AVRG		0.35695		10.22123	
$ 39 2-Fluorobiphenyl	+++++	1.34116	1.30540	1.16399	1.08373	1.01231						
	0.96927	0.91496					AVRG		1.11297		14.78861	
$ 60 2,4,6-Tribromophenol	+++++	0.13426	0.15238	0.14397	0.14535	0.13717						
	0.13113	0.12879					AVRG		0.13901		6.13538	
$ 81 p-Terphenyl-d14	+++++	0.82672	0.82090	0.77055	0.74743	0.75654						
	0.72800	0.71894					AVRG		0.76701		5.53347	

GEL Laboratories LLC

INITIAL CALIBRATION DATA

Start Cal Date : 06-FEB-2009 22:45
End Cal Date : 09-FEB-2009 19:16
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/MSD2.i/s021609.b/MSD2-M8270D-020909.m
Cal Date : 16-Feb-2009 15:46 ann00964

Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Linear	Amt = b + Rsp/m1	Response

GEL Laboratories LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD2.i Injection Date: 07-FEB-2009 02:29
Lab File ID: s2b0631-D.d Init. Cal. Date(s): 06-FEB-2009 07-FEB-2009
Analysis Type: Init. Cal. Times: 22:45 01:42
Lab Sample ID: WBN090205-09.1 Quant Type: ISTD
Method: /chem/MSD2.i/s020609a.b/MSD2-M8270D-020609a.m

COMPOUND	RRF / AMOUNT	RF40	CCAL RRF40	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 3 2-Fluorophenol	1.22165	1.20379	1.20379	0.010	-1.46197	30.00000	Averaged
$ 5 Phenol-d5	1.51143	1.45915	1.45915	0.010	-3.45930	30.00000	Averaged
$ 20 Nitrobenzene-d5	0.35695	0.34792	0.34792	0.010	-2.52991	30.00000	Averaged
$ 39 2-Fluorobiphenyl	1.11297	1.08047	1.08047	0.010	-2.92013	30.00000	Averaged
$ 60 2,4,6-Tribromophenol	0.13901	0.13951	0.13951	0.010	0.36423	30.00000	Averaged
$ 81 p-Terphenyl-d14	0.76701	0.74738	0.74738	0.010	-2.55944	30.00000	Averaged
1 N-Methyl-N-nitrosomethylami	0.87177	0.91148	0.91148	0.010	4.55600	30.00000	Averaged
2 Pyridine	1.07792	1.06375	1.06375	0.010	-1.31495	30.00000	Averaged
4 Aniline	0.68031	0.69429	0.69429	0.010	2.05473	30.00000	Averaged
6 Phenol	1.52459	1.47789	1.47789	0.800	-3.06306	30.00000	Averaged
7 bis(2-Chloroethyl) ether	1.26626	1.19780	1.19780	0.700	-5.40635	30.00000	Averaged
8 2-Chlorophenol	1.24097	1.18552	1.18552	0.800	-4.46775	30.00000	Averaged
203 n-Decane	2.04373	1.99798	1.99798	0.010	-2.23895	30.00000	Averaged
9 1,3-Dichlorobenzene	1.48287	1.42908	1.42908	0.010	-3.62737	30.00000	Averaged
11 1,4-Dichlorobenzene	1.44760	1.36480	1.36480	0.010	-5.72022	30.00000	Averaged
13 1,2-Dichlorobenzene	1.28536	1.16282	1.16282	0.010	-9.53357	30.00000	Averaged
14 bis(2-Chloroisopropyl)ether	2.98241	2.99103	2.99103	0.010	0.28904	30.00000	Averaged
12 Benzyl alcohol	0.85157	0.85104	0.85104	0.010	-0.06237	30.00000	Averaged
15 o-Cresol	0.92400	0.83410	0.83410	0.700	-9.72940	30.00000	Averaged
18 m,p-Cresols	1.32718	1.30372	1.30372	0.600	-1.76757	30.00000	Averaged
17 N-Nitrosodipropylamine	1.07243	1.05229	1.05229	0.500	-1.87828	30.00000	Averaged
19 Hexachloroethane	0.55125	0.52457	0.52457	0.300	-4.84036	30.00000	Averaged
21 Nitrobenzene	0.34423	0.36831	0.36831	0.200	6.99384	30.00000	Averaged
22 Isophorone	0.65275	0.69557	0.69557	0.010	6.55969	30.00000	Averaged
23 2-Nitrophenol	0.14736	0.15186	0.15186	0.100	3.05166	30.00000	Averaged
24 2,4-Dimethylphenol	0.26862	0.28016	0.28016	0.200	4.29749	30.00000	Averaged
25 bis(2-Chloroethoxy)methane	0.37094	0.34595	0.34595	0.300	-6.73739	30.00000	Averaged
26 2,4-Dichlorophenol	0.24207	0.24202	0.24202	0.200	-0.01752	30.00000	Averaged
27 Benzoic acid	0.15695	0.16181	0.16181	0.010	3.09418	30.00000	Averaged
28 1,2,4-Trichlorobenzene	0.28927	0.27151	0.27151	0.010	-6.14023	30.00000	Averaged
30 Naphthalene	0.94118	0.80605	0.80605	0.700	-14.35750	30.00000	Averaged
204 alpha-Terpineol	0.31993	0.30343	0.30343	0.010	-5.15777	30.00000	Averaged
31 4-Chloroaniline	0.38121	0.39901	0.39901	0.010	4.66695	30.00000	Averaged
32 Hexachlorobutadiene	0.17142	0.16138	0.16138	0.010	-5.86022	30.00000	Averaged
33 4-Chloro-3-methylphenol	0.26171	0.25715	0.25715	0.200	-1.74390	30.00000	Averaged
34 2-Methylnaphthalene	0.54277	0.54814	0.54814	0.400	0.98950	30.00000	Averaged

GEL Laboratories LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD2.i Injection Date: 07-FEB-2009 02:29
Lab File ID: s2b0631-D.d Init. Cal. Date(s): 06-FEB-2009 07-FEB-2009
Analysis Type: Init. Cal. Times: 22:45 01:42
Lab Sample ID: WBN090205-09.1 Quant Type: ISTD
Method: /chem/MSD2.i/s020609a.b/MSD2-M8270D-020609a.m

COMPOUND	RRF / AMOUNT	RF40	CCAL RRF40	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
35 1-Methylnaphthalene	0.61645	0.52112	0.52112	0.010	-15.46394	30.00000	Averaged
36 Hexachlorocyclopentadiene	0.21222	0.22290	0.22290	0.050	5.03282	30.00000	Averaged
205 2,3-Dichloroaniline	0.52724	0.52400	0.52400	0.010	-0.61536	30.00000	Averaged
37 2,4,6-Trichlorophenol	0.30804	0.29855	0.29855	0.200	-3.08288	30.00000	Averaged
38 2,4,5-Trichlorophenol	0.33059	0.34184	0.34184	0.200	3.40218	30.00000	Averaged
40 2-Chloronaphthalene	0.99580	0.93452	0.93452	0.800	-6.15435	30.00000	Averaged
42 o-Nitroaniline	0.32957	0.33028	0.33028	0.010	0.21646	30.00000	Averaged
41 m-Nitroaniline	0.21899	0.23643	0.23643	0.010	7.96456	30.00000	Averaged
43 Dimethylphthalate	1.15962	1.12087	1.12087	0.010	-3.34129	30.00000	Averaged
44 2,6-Dinitrotoluene	0.26756	0.28616	0.28616	0.200	6.95234	30.00000	Averaged
50 2,4-Dinitrotoluene	0.34030	0.36266	0.36266	0.200	6.57011	30.00000	Averaged
45 Acenaphthylene	1.58003	1.50406	1.50406	0.900	-4.80816	30.00000	Averaged
47 Acenaphthene	0.93622	0.83199	0.83199	0.900	-11.13332	30.00000	Averaged <-
48 2,4-Dinitrophenol	0.08863	0.09003	0.09003	0.010	1.57672	30.00000	Averaged
49 Dibenzofuran	1.31570	1.28818	1.28818	0.010	-2.09220	30.00000	Averaged
51 Diethylphthalate	1.15485	1.10317	1.10317	0.010	-4.47504	30.00000	Averaged
52 4-Nitrophenol	0.14109	0.13650	0.13650	0.010	-3.25080	30.00000	Averaged
53 Fluorene	1.13111	0.99295	0.99295	0.900	-12.21449	30.00000	Averaged
54 4-Chlorophenylphenylether	0.53681	0.51835	0.51835	0.400	-3.43896	30.00000	Averaged
55 2-Methyl-4,6-dinitrophenol	50.13660	40.00000	0.13185	0.010	25.34150	30.00000	Linear
56 p-Nitroaniline	0.16503	0.16827	0.16827	0.010	1.96128	30.00000	Averaged
133 Diphenylamine	0.56065	0.53084	0.53084	0.010	-5.31622	30.00000	Averaged
58 1,2-Diphenylhydrazine	0.76224	0.73514	0.73514	0.010	-3.55623	30.00000	Averaged
61 4-Bromophenylphenylether	0.19596	0.18678	0.18678	0.100	-4.68613	30.00000	Averaged
63 Hexachlorobenzene	0.21315	0.19907	0.19907	0.100	-6.60580	30.00000	Averaged
65 Pentachlorophenol	0.11223	0.12005	0.12005	0.050	6.97471	30.00000	Averaged
206 n-Octadecane	0.61128	0.59271	0.59271	0.010	-3.03849	30.00000	Averaged
68 Phenanthrene	1.01852	0.90843	0.90843	0.700	-10.80889	30.00000	Averaged
69 Anthracene	0.99723	0.93606	0.93606	0.700	-6.13449	30.00000	Averaged
72 Di-n-butylphthalate	1.18053	1.12882	1.12882	0.010	-4.38027	30.00000	Averaged
76 Fluoranthene	0.99619	0.92809	0.92809	0.600	-6.83604	30.00000	Averaged
79 Pyrene	1.36621	1.16141	1.16141	0.600	-14.99036	30.00000	Averaged
85 Butylbenzylphthalate	0.55999	0.52867	0.52867	0.010	-5.59317	30.00000	Averaged
89 Benzo(a)anthracene	1.02974	0.89421	0.89421	0.800	-13.16155	30.00000	Averaged
92 Chrysene	0.98579	0.85540	0.85540	0.700	-13.22672	30.00000	Averaged
93 bis(2-Ethylhexyl)phthalate	0.76813	0.72589	0.72589	0.010	-5.49816	30.00000	Averaged

GEL Laboratories LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD2.i Injection Date: 07-FEB-2009 02:29
Lab File ID: s2b0631-D.d Init. Cal. Date(s): 06-FEB-2009 07-FEB-2009
Analysis Type: Init. Cal. Times: 22:45 01:42
Lab Sample ID: WBN090205-09.1 Quant Type: ISTD
Method: /chem/MSD2.i/s020609a.b/MSD2-M8270D-020609a.m

COMPOUND	RRF / AMOUNT	RF40	CCAL RRF40	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
94 Di-n-octylphthalate	1.68029	1.56093	1.56093	0.010	-7.10328	30.00000	Averaged
95 Benzo(b)fluoranthene	1.27072	1.17930	1.17930	0.700	-7.19426	30.00000	Averaged
96 Benzo(k)fluoranthene	1.28812	1.06781	1.06781	0.700	-17.10338	30.00000	Averaged
97 Benzo(a)pyrene	1.09177	1.00022	1.00022	0.700	-8.38585	30.00000	Averaged
99 Indeno(1,2,3-cd)pyrene	0.99860	0.85584	0.85584	0.500	-14.29597	30.00000	Averaged
100 Dibenzo(a,h)anthracene	0.80604	0.71999	0.71999	0.400	-10.67549	30.00000	Averaged
101 Benzo(ghi)perylene	0.83276	0.73377	0.73377	0.500	-11.88691	30.00000	Averaged
126 m-Dinitrobenzene	0.17922	0.18156	0.18156	0.010	1.30876	30.00000	Averaged
130 2,3,4,6-Tetrachlorophenol	0.27428	0.25769	0.25769	0.010	-6.04934	30.00000	Averaged
143 Dinoseb	0.15363	0.15856	0.15856	0.010	3.20509	30.00000	Averaged
173 Carbazole	0.78756	0.80334	0.80334	0.010	2.00342	30.00000	Averaged
184 p-Benzoquinone	38.97343	40.00000	0.12961	0.010	-2.56642	30.00000	Linear
192 Methoxychlor	0.66328	0.64161	0.64161	0.010	-3.26657	30.00000	Averaged
211 p-Toluidine	1.19887	1.20955	1.20955	0.010	0.89135	30.00000	Averaged
210 m-Toluidine	1.44144	1.26809	1.26809	0.010	-12.02650	30.00000	Averaged
214 1,4-Dinitrobenzene	0.21382	0.20365	0.20365	0.010	-4.75631	30.00000	Averaged
215 2-Ethoxyethanol	1.01598	1.02192	1.02192	0.010	0.58440	30.00000	Averaged
216 Methylenebis(2-chloroanilin	0.13164	0.12778	0.12778	0.010	-2.92913	30.00000	Averaged
179 Dibenzo(a,e)pyrene	0.43209	0.24259	0.24259	0.010	-43.85691	30.00000	Averaged <-
26 Phthalic anhydride	0.10583	0.17089	0.17089	0.010	61.47771	30.00000	Averaged <-
M 222 Trichlorophenols	0.31932	0.32019	0.32019	0.010	0.27413	30.00000	Averaged
M 223 Tetrachlorophenols	0.27428	0.25769	0.25769	0.010	-6.04934	30.00000	Averaged
M 224 Benzo(b,k)fluoranthene	1.27942	1.12355	1.12355	0.010	-12.18250	30.00000	Averaged

GEL Laboratories LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD2.i Injection Date: 09-FEB-2009 19:59
Lab File ID: s2b0911-D.d Init. Cal. Date(s): 06-FEB-2009 09-FEB-2009
Analysis Type: Init. Cal. Times: 22:45 19:16
Lab Sample ID: WBN090128-16.1 Quant Type: ISTD
Method: /chem/MSD2.i/s020909.b/MSD2-M8270D-020909.m

COMPOUND	RRF / AMOUNT	RF40	CCAL RRF40	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
209 Benzaldehyde	0.96050	1.06341	1.06341	0.010	10.71444	30.00000	Averaged
16 Acetophenone	1.65195	1.52470	1.52470	0.010	-7.70342	30.00000	Averaged
189 Caprolactam	0.09588	0.09585	0.09585	0.010	-0.02542	30.00000	Averaged
208 1,1'-Biphenyl	1.22700	1.22571	1.22571	0.010	-0.10522	30.00000	Averaged
207 Atrazine	0.05272	0.05257	0.05257	0.010	-0.27453	30.00000	Averaged
77 Benzidine	0.47982	0.39322	0.39322	0.010	-18.04889	30.00000	Averaged
90 3,3'-Dichlorobenzidine	0.29317	0.25106	0.25106	0.010	-14.36439	30.00000	Averaged
102 1,4-Dioxane	0.55192	0.49589	0.49589	0.010	-10.15300	30.00000	Averaged
103 Methyl methacrylate	0.27742	0.26281	0.26281	0.010	-5.26626	30.00000	Averaged
104 Ethyl methacrylate	1.23925	1.14793	1.14793	0.010	-7.36841	30.00000	Averaged
105 2-Picoline	1.47846	1.26480	1.26480	0.010	-14.45148	30.00000	Averaged
106 N-Nitrosomethylethylamine	0.70551	0.58828	0.58828	0.010	-16.61629	30.00000	Averaged
107 Methyl methanesulfonate	0.83899	0.76031	0.76031	0.010	-9.37722	30.00000	Averaged
108 N-Nitrosodiethylamine	0.64640	0.54223	0.54223	0.010	-16.11587	30.00000	Averaged
109 Ethyl Methanesulfonate	1.05775	0.93785	0.93785	0.010	-11.33537	30.00000	Averaged
110 Pentachloroethane	0.52218	0.45998	0.45998	0.010	-11.91169	30.00000	Averaged
111 N-Nitrosopyrrolidine	0.62716	0.55284	0.55284	0.010	-11.85027	30.00000	Averaged
113 N-Nitrosomorpholine	1.03401	0.88904	0.88904	0.010	-14.02033	30.00000	Averaged
114 o-Toluidine	1.88723	1.61257	1.61257	0.010	-14.55384	30.00000	Averaged
115 N-Nitrosopiperidine	0.16756	0.14609	0.14609	0.010	-12.81057	30.00000	Averaged
116 a,a-Dimethylphenethylamine	1.21442	1.00518	1.00518	0.010	-17.22972	30.00000	Averaged
118 2,6-Dichlorophenol	0.25427	0.25249	0.25249	0.010	-0.69932	30.00000	Averaged
119 Hexachloropropene	0.20765	0.18087	0.18087	0.010	-12.89858	30.00000	Averaged
120 p-Phenylenediamine	0.24084	0.22144	0.22144	0.010	-8.05382	30.00000	Averaged
121 N-Nitrosodi-n-butylamine	0.24793	0.21212	0.21212	0.010	-14.44153	30.00000	Averaged
122 Safrole	0.25526	0.24163	0.24163	0.010	-5.34189	30.00000	Averaged
123 1,2,4,5-Tetrachlorobenzene	0.47607	0.47570	0.47570	0.010	-0.07735	30.00000	Averaged
124 Isosafrole	0.43058	0.40888	0.40888	0.010	-5.03969	30.00000	Averaged
125 1,4-Naphthoquinone	0.34158	0.38211	0.38211	0.010	11.86426	30.00000	Averaged
127 Pentachlorobenzene	0.40608	0.40787	0.40787	0.010	0.44088	30.00000	Averaged
128 1-Naphthylamine	0.91178	0.78435	0.78435	0.010	-13.97659	30.00000	Averaged
129 2-Naphthylamine	0.93234	0.83962	0.83962	0.010	-9.94449	30.00000	Averaged
131 5-Nitro-o-toluidine	0.28690	0.23826	0.23826	0.010	-16.95285	30.00000	Averaged
136 1,3,5-Trinitrobenzene	0.15071	0.16373	0.16373	0.010	8.64418	30.00000	Averaged
137 Phenacetin	0.30828	0.30573	0.30573	0.010	-0.82491	30.00000	Averaged
138 Diallate	0.29917	0.31103	0.31103	0.010	3.96396	30.00000	Averaged

GEL Laboratories LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD2.i Injection Date: 09-FEB-2009 19:59
Lab File ID: s2b0911-D.d Init. Cal. Date(s): 06-FEB-2009 09-FEB-2009
Analysis Type: Init. Cal. Times: 22:45 19:16
Lab Sample ID: WBN090128-16.1 Quant Type: ISTD
Method: /chem/MSD2.i/s020909.b/MSD2-M8270D-020909.m

COMPOUND	RRF / AMOUNT	RF40	CCAL RRF40	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
212 Cis Diallate	0.34353	0.34585	0.34585	0.010	0.67755	30.00000	Averaged
213 Trans Diallate	0.35178	0.36591	0.36591	0.010	4.01756	30.00000	Averaged
140 4-Aminobiphenyl	0.60263	0.47602	0.47602	0.010	-21.01035	30.00000	Averaged
141 Pentachloronitrobenzene	0.09134	0.09269	0.09269	0.010	1.47960	30.00000	Averaged
142 Pronamide	0.29394	0.30332	0.30332	0.010	3.19395	30.00000	Averaged
146 4-Nitroquinoline-1-oxide	0.03185	0.02910	0.02910	0.010	-8.63246	30.00000	Averaged
147 Methapyrilene	0.41030	0.48193	0.48193	0.010	17.45875	30.00000	Averaged
148 Isodrin	0.12821	0.13150	0.13150	0.010	2.56561	30.00000	Averaged
149 Aramite	0.04813	0.03844	0.03844	0.010	-20.12886	30.00000	Averaged
150 Kepone	0.07251	0.07602	0.07602	0.010	4.83951	30.00000	Averaged
151 p-(Dimethylamino)azobenzene	0.31623	0.28104	0.28104	0.010	-11.12865	30.00000	Averaged
152 Chlorobenzilate	0.33553	0.35354	0.35354	0.010	5.36820	30.00000	Averaged
153 3,3'-Dimethylbenzidine	0.56758	0.46185	0.46185	0.010	-18.62826	30.00000	Averaged
155 2-Acetylaminofluorene	0.32414	0.27459	0.27459	0.010	-15.28713	30.00000	Averaged
157 7,12Dimethylbenz(a)anthrace	0.57754	0.58848	0.58848	0.010	1.89371	30.00000	Averaged
158 3-Methylcholanthrene	0.51554	0.49079	0.49079	0.010	-4.80162	30.00000	Averaged

Data File: /chem/MSD2.i/s021609.b/s2b1603-D.d
Report Date: 16-Feb-2009 19:13

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD2.i
Lab File ID: s2b1603-D.d
Analysis Type:
Lab Sample ID: WBN090205-09.3
Method: /chem/MSD2.i/s021609.b/MSD2-M8270D-020909.m

Injection Date: 16-FEB-2009 14:09
Init. Cal. Date(s): 06-FEB-2009 09-FEB-2009
Init. Cal. Times: 22:45 19:16
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF40	CCAL RRF40	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 3 2-Fluorophenol	1.22165	1.18303	1.18303	0.010	-3.16053	20.00000	Averaged
$ 5 Phenol-d5	1.51143	1.41953	1.41953	0.010	-6.08072	20.00000	Averaged
$ 20 Nitrobenzene-d5	0.35695	0.35902	0.35902	0.010	0.58200	20.00000	Averaged
$ 39 2-Fluorobiphenyl	1.11297	1.08226	1.08226	0.010	-2.75950	20.00000	Averaged
$ 60 2,4,6-Tribromophenol	0.13901	0.12684	0.12684	0.010	-8.75138	20.00000	Averaged
$ 81 p-Terphenyl-d14	0.76701	0.75671	0.75671	0.010	-1.34301	20.00000	Averaged
1 N-Methyl-N-nitrosomethylami	0.87177	0.79954	0.79954	0.010	-8.28458	20.00000	Averaged
2 Pyridine	1.07792	0.98390	0.98390	0.010	-8.72256	20.00000	Averaged
4 Aniline	0.68031	0.68488	0.68488	0.010	0.67101	20.00000	Averaged
6 Phenol	1.52459	1.46215	1.46215	0.800	-4.09570	20.00000	Averaged
7 bis(2-Chloroethyl) ether	1.26626	1.27640	1.27640	0.700	0.80134	20.00000	Averaged
8 2-Chlorophenol	1.24097	1.17621	1.17621	0.800	-5.21811	20.00000	Averaged
203 n-Decane	2.04373	2.45271	2.45271	0.010	20.01109	20.00000	Averaged <-
9 1,3-Dichlorobenzene	1.48287	1.35835	1.35835	0.010	-8.39688	20.00000	Averaged
11 1,4-Dichlorobenzene	1.44760	1.34291	1.34291	0.010	-7.23196	20.00000	Averaged
13 1,2-Dichlorobenzene	1.28536	1.21303	1.21303	0.010	-5.62748	20.00000	Averaged
14 bis(2-Chloroisopropyl)ether	2.98241	3.22292	3.22292	0.010	8.06438	20.00000	Averaged
12 Benzyl alcohol	0.85157	0.70477	0.70477	0.010	-17.23789	20.00000	Averaged
15 o-Cresol	0.92400	0.90434	0.90434	0.700	-2.12812	20.00000	Averaged
18 m,p-Cresols	1.32718	1.17664	1.17664	0.600	-11.34306	20.00000	Averaged
17 N-Nitrosodipropylamine	1.07243	1.10831	1.10831	0.500	3.34621	20.00000	Averaged
19 Hexachloroethane	0.55125	0.57671	0.57671	0.300	4.61830	20.00000	Averaged
21 Nitrobenzene	0.34423	0.34973	0.34973	0.200	1.59583	20.00000	Averaged
22 Isophorone	0.65275	0.66626	0.66626	0.010	2.07050	20.00000	Averaged
23 2-Nitrophenol	0.14736	0.14394	0.14394	0.100	-2.31840	20.00000	Averaged
24 2,4-Dimethylphenol	0.26862	0.27878	0.27878	0.200	3.78378	20.00000	Averaged
25 bis(2-Chloroethoxy)methane	0.37094	0.35165	0.35165	0.300	-5.19991	20.00000	Averaged
26 2,4-Dichlorophenol	0.24207	0.21895	0.21895	0.200	-9.54782	20.00000	Averaged
27 Benzoic acid	0.15695	0.16092	0.16092	0.010	2.52928	20.00000	Averaged
28 1,2,4-Trichlorobenzene	0.28927	0.27792	0.27792	0.010	-3.92311	20.00000	Averaged
30 Naphthalene	0.94118	0.82038	0.82038	0.700	-12.83468	20.00000	Averaged
204 alpha-Terpineol	0.31993	0.34391	0.34391	0.010	7.49626	20.00000	Averaged
31 4-Chloroaniline	0.38121	0.35306	0.35306	0.010	-7.38470	20.00000	Averaged
32 Hexachlorobutadiene	0.17142	0.17402	0.17402	0.010	1.51395	20.00000	Averaged
33 4-Chloro-3-methylphenol	0.26171	0.25838	0.25838	0.200	-1.27257	20.00000	Averaged
34 2-Methylnaphthalene	0.54277	0.50917	0.50917	0.400	-6.19055	20.00000	Averaged

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD2.i Injection Date: 16-FEB-2009 14:09
Lab File ID: s2b1603-D.d Init. Cal. Date(s): 06-FEB-2009 09-FEB-2009
Analysis Type: Init. Cal. Times: 22:45 19:16
Lab Sample ID: WBN090205-09.3 Quant Type: ISTD
Method: /chem/MSD2.i/s021609.b/MSD2-M8270D-020909.m

COMPOUND	RRF / AMOUNT	RF40	CCAL RRF40	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
35 1-Methylnaphthalene	0.61645	0.54640	0.54640	0.010	-11.36268	20.00000	Averaged
36 Hexachlorocyclopentadiene	0.21222	0.21372	0.21372	0.050	0.70872	20.00000	Averaged
205 2,3-Dichloroaniline	0.52724	0.49200	0.49200	0.010	-6.68437	20.00000	Averaged
37 2,4,6-Trichlorophenol	0.30804	0.30259	0.30259	0.200	-1.77080	20.00000	Averaged
38 2,4,5-Trichlorophenol	0.33059	0.29060	0.29060	0.200	-12.09811	20.00000	Averaged
40 2-Chloronaphthalene	0.99580	0.90055	0.90055	0.800	-9.56538	20.00000	Averaged
42 o-Nitroaniline	0.32957	0.33255	0.33255	0.010	0.90527	20.00000	Averaged
41 m-Nitroaniline	0.21899	0.18228	0.18228	0.010	-16.76563	20.00000	Averaged
43 Dimethylphthalate	1.15962	1.12916	1.12916	0.010	-2.62658	20.00000	Averaged
44 2,6-Dinitrotoluene	0.26756	0.25094	0.25094	0.200	-6.20947	20.00000	Averaged
50 2,4-Dinitrotoluene	0.34030	0.31184	0.31184	0.200	-8.36447	20.00000	Averaged
45 Acenaphthylene	1.58003	1.47480	1.47480	0.900	-6.65956	20.00000	Averaged
47 Acenaphthene	0.93622	0.89996	0.89996	0.900	-3.87320	20.00000	Averaged <-
48 2,4-Dinitrophenol	0.08863	0.07967	0.07967	0.010	-10.11074	20.00000	Averaged
49 Dibenzofuran	1.31570	1.19789	1.19789	0.010	-8.95429	20.00000	Averaged
51 Diethylphthalate	1.15485	1.28768	1.28768	0.010	11.50194	20.00000	Averaged
52 4-Nitrophenol	0.14109	0.14032	0.14032	0.010	-0.54200	20.00000	Averaged
53 Fluorene	1.13111	1.00063	1.00063	0.900	-11.53582	20.00000	Averaged
54 4-Chlorophenylphenylether	0.53681	0.53852	0.53852	0.400	0.31821	20.00000	Averaged
55 2-Methyl-4,6-dinitrophenol	37.10992	40.00000	0.09508	0.010	-7.22520	20.00000	Linear
56 p-Nitroaniline	0.16503	0.13157	0.13157	0.010	-20.27463	20.00000	Averaged <-
133 Diphenylamine	0.56065	0.54710	0.54710	0.010	-2.41607	20.00000	Averaged
58 1,2-Diphenylhydrazine	0.76224	0.83333	0.83333	0.010	9.32543	20.00000	Averaged
61 4-Bromophenylphenylether	0.19596	0.19324	0.19324	0.100	-1.38671	20.00000	Averaged
63 Hexachlorobenzene	0.21315	0.21130	0.21130	0.100	-0.86664	20.00000	Averaged
65 Pentachlorophenol	0.11223	0.09832	0.09832	0.050	-12.39270	20.00000	Averaged
206 n-Octadecane	0.61128	0.73366	0.73366	0.010	20.01970	20.00000	Averaged <-
68 Phenanthrene	1.01852	0.89699	0.89699	0.700	-11.93171	20.00000	Averaged
69 Anthracene	0.99723	0.88996	0.88996	0.700	-10.75734	20.00000	Averaged
72 Di-n-butylphthalate	1.18053	1.21879	1.21879	0.010	3.24111	20.00000	Averaged
76 Fluoranthene	0.99619	0.87712	0.87712	0.600	-11.95177	20.00000	Averaged
79 Pyrene	1.36621	1.21934	1.21934	0.600	-10.75027	20.00000	Averaged
85 Butylbenzylphthalate	0.55999	0.50826	0.50826	0.010	-9.23735	20.00000	Averaged
89 Benzo(a)anthracene	1.02974	0.89043	0.89043	0.800	-13.52893	20.00000	Averaged
92 Chrysene	0.98579	0.82678	0.82678	0.700	-16.12991	20.00000	Averaged
93 bis(2-Ethylhexyl)phthalate	0.76813	0.67966	0.67966	0.010	-11.51687	20.00000	Averaged

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD2.i Injection Date: 16-FEB-2009 14:09
Lab File ID: s2b1603-D.d Init. Cal. Date(s): 06-FEB-2009 09-FEB-2009
Analysis Type: Init. Cal. Times: 22:45 19:16
Lab Sample ID: WBN090205-09.3 Quant Type: ISTD
Method: /chem/MSD2.i/s021609.b/MSD2-M8270D-020909.m

	COMPOUND	RRF / AMOUNT	RF40	CCAL RRF40	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
	94 Di-n-octylphthalate	1.68029	1.75327	1.75327	0.010	4.34359	20.00000	Averaged	
	95 Benzo(b)fluoranthene	1.27072	1.18284	1.18284	0.700	-6.91602	20.00000	Averaged	
	96 Benzo(k)fluoranthene	1.28812	1.24889	1.24889	0.700	-3.04562	20.00000	Averaged	
	97 Benzo(a)pyrene	1.09177	1.03291	1.03291	0.700	-5.39122	20.00000	Averaged	
	99 Indeno(1,2,3-cd)pyrene	0.99860	0.85816	0.85816	0.500	-14.06341	20.00000	Averaged	
	100 Dibenzo(a,h)anthracene	0.80604	0.70633	0.70633	0.400	-12.37052	20.00000	Averaged	
	101 Benzo(ghi)perylene	0.83276	0.67183	0.67183	0.500	-19.32429	20.00000	Averaged	
	126 m-Dinitrobenzene	0.17922	0.15260	0.15260	0.010	-14.84967	20.00000	Averaged	
	130 2,3,4,6-Tetrachlorophenol	0.27428	0.24771	0.24771	0.010	-9.68596	20.00000	Averaged	
	143 Dinoseb	0.15363	0.14869	0.14869	0.010	-3.21339	20.00000	Averaged	
	173 Carbazole	0.78756	0.62074	0.62074	0.010	-21.18174	20.00000	Averaged	<-
	184 p-Benzoquinone	24.84223	40.00000	0.07050	0.010	-37.89442	20.00000	Linear	<-
	192 Methoxychlor	0.66328	0.65274	0.65274	0.010	-1.58943	20.00000	Averaged	
	211 p-Toluidine	1.19887	1.01047	1.01047	0.010	-15.71452	20.00000	Averaged	
	210 m-Toluidine	1.44144	1.13169	1.13169	0.010	-21.48911	20.00000	Averaged	<-
	214 1,4-Dinitrobenzene	0.21382	0.24542	0.24542	0.010	14.77816	20.00000	Averaged	
	215 2-Ethoxyethanol	1.01598	0.96776	0.96776	0.010	-4.74632	20.00000	Averaged	
	216 Methylenebis(2-chloroanilin	0.13164	0.09266	0.09266	0.010	-29.60782	20.00000	Averaged	<-
	179 Dibenzo(a,e)pyrene	0.43209	0.38354	0.38354	0.010	-11.23616	20.00000	Averaged	
	26 Phthalic anhydride	0.10583	0.12113	0.12113	0.010	14.46063	20.00000	Averaged	
M	222 Trichlorophenols	0.31932	0.29659	0.29659	0.010	-7.11677	20.00000	Averaged	
M	223 Tetrachlorophenols	0.27428	0.24771	0.24771	0.010	-9.68596	20.00000	Averaged	
M	224 Benzo(b,k)fluoranthene	1.27942	1.21586	1.21586	0.010	-4.96766	20.00000	Averaged	

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD2.i Injection Date: 16-FEB-2009 14:37
Lab File ID: s2b1604-D.d Init. Cal. Date(s): 06-FEB-2009 09-FEB-2009
Analysis Type: Init. Cal. Times: 22:45 19:16
Lab Sample ID: WBN090128-06.4 Quant Type: ISTD
Method: /chem/MSD2.i/s021609.b/MSD2-M8270D-020909.m

COMPOUND	RRF / AMOUNT	RF40	CCAL RRF40	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
209 Benzaldehyde	0.96050	1.09682	1.09682	0.010	14.19329	20.00000	Averaged
16 Acetophenone	1.65195	1.31181	1.31181	0.010	-20.59039	20.00000	Averaged <-
189 Caprolactam	0.09588	0.08664	0.08664	0.010	-9.63516	20.00000	Averaged
208 1,1'-Biphenyl	1.22700	1.14950	1.14950	0.010	-6.31620	20.00000	Averaged
207 Atrazine	0.05272	0.04542	0.04542	0.010	-13.83557	20.00000	Averaged
77 Benzidine	0.47982	0.42024	0.42024	0.010	-12.41629	20.00000	Averaged
90 3,3'-Dichlorobenzidine	0.29317	0.31375	0.31375	0.010	7.02077	20.00000	Averaged
102 1,4-Dioxane	0.55192	0.42806	0.42806	0.010	-22.44151	20.00000	Averaged <-
103 Methyl methacrylate	0.27742	0.23020	0.23020	0.010	-17.02120	20.00000	Averaged
104 Ethyl methacrylate	1.23925	1.02126	1.02126	0.010	-17.59002	20.00000	Averaged
105 2-Picoline	1.47846	1.61008	1.61008	0.010	8.90224	20.00000	Averaged
106 N-Nitrosomethylethylamine	0.70551	0.70826	0.70826	0.010	0.38890	20.00000	Averaged
107 Methyl methanesulfonate	0.83899	0.66698	0.66698	0.010	-20.50128	20.00000	Averaged <-
108 N-Nitrosodiethylamine	0.64640	0.66586	0.66586	0.010	3.01055	20.00000	Averaged
109 Ethyl Methanesulfonate	1.05775	0.78723	0.78723	0.010	-25.57528	20.00000	Averaged <-
110 Pentachloroethane	0.52218	0.35940	0.35940	0.010	-31.17282	20.00000	Averaged <-
111 N-Nitrosopyrrolidine	0.62716	0.71049	0.71049	0.010	13.28710	20.00000	Averaged
113 N-Nitrosomorpholine	1.03401	1.26807	1.26807	0.010	22.63610	20.00000	Averaged <-
114 o-Toluidine	1.88723	2.00129	2.00129	0.010	6.04342	20.00000	Averaged
115 N-Nitrosopiperidine	0.16756	0.18890	0.18890	0.010	12.73630	20.00000	Averaged
116 a,a-Dimethylphenethylamine	1.21442	1.30005	1.30005	0.010	7.05134	20.00000	Averaged
118 2,6-Dichlorophenol	0.25427	0.23251	0.23251	0.010	-8.55691	20.00000	Averaged
119 Hexachloropropene	0.20765	0.14250	0.14250	0.010	-31.37614	20.00000	Averaged <-
120 p-Phenylenediamine	0.24084	0.26866	0.26866	0.010	11.55224	20.00000	Averaged
121 N-Nitrosodi-n-butylamine	0.24793	0.28161	0.28161	0.010	13.58596	20.00000	Averaged
122 Safrole	0.25526	0.20835	0.20835	0.010	-18.37945	20.00000	Averaged
123 1,2,4,5-Tetrachlorobenzene	0.47607	0.45796	0.45796	0.010	-3.80500	20.00000	Averaged
124 Isosafrole	0.43058	0.34183	0.34183	0.010	-20.61292	20.00000	Averaged <-
125 1,4-Naphthoquinone	0.34158	0.28158	0.28158	0.010	-17.56775	20.00000	Averaged
127 Pentachlorobenzene	0.40608	0.39595	0.39595	0.010	-2.49300	20.00000	Averaged
128 1-Naphthylamine	0.91178	1.09499	1.09499	0.010	20.09254	20.00000	Averaged <-
129 2-Naphthylamine	0.93234	1.11913	1.11913	0.010	20.03467	20.00000	Averaged <-
131 5-Nitro-o-toluidine	0.28690	0.31433	0.31433	0.010	9.56230	20.00000	Averaged
136 1,3,5-Trinitrobenzene	0.15071	0.14411	0.14411	0.010	-4.37841	20.00000	Averaged
137 Phenacetin	0.30828	0.29385	0.29385	0.010	-4.67855	20.00000	Averaged
138 Diallate	0.29917	0.29916	0.29916	0.010	-0.00206	20.00000	Averaged

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD2.i Injection Date: 16-FEB-2009 14:37
Lab File ID: s2b1604-D.d Init. Cal. Date(s): 06-FEB-2009 09-FEB-2009
Analysis Type: Init. Cal. Times: 22:45 19:16
Lab Sample ID: WBN090128-06.4 Quant Type: ISTD
Method: /chem/MSD2.i/s021609.b/MSD2-M8270D-020909.m

COMPOUND	RRF / AMOUNT	RF40	CCAL RRF40	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
212 Cis Diallate	0.34353	0.30858	0.30858	0.010	-10.17356	20.00000	Averaged	
213 Trans Diallate	0.35178	0.35119	0.35119	0.010	-0.16940	20.00000	Averaged	
140 4-Aminobiphenyl	0.60263	0.72310	0.72310	0.010	19.99038	20.00000	Averaged	
141 Pentachloronitrobenzene	0.09134	0.09942	0.09942	0.010	8.84589	20.00000	Averaged	
142 Pronamide	0.29394	0.30885	0.30885	0.010	5.07326	20.00000	Averaged	
146 4-Nitroquinoline-1-oxide	0.03185	0.02313	0.02313	0.010	-27.38625	20.00000	Averaged	<-
147 Methapyrilene	0.41030	0.73260	0.73260	0.010	78.55432	20.00000	Averaged	<-
148 Isodrin	0.12821	0.11811	0.11811	0.010	-7.87800	20.00000	Averaged	
149 Aramite	0.04813	0.04839	0.04839	0.010	0.53054	20.00000	Averaged	
150 Kepone	0.07251	0.03615	0.03615	0.010	-50.13773	20.00000	Averaged	<-
151 p-(Dimethylamino)azobenzene	0.31623	0.35726	0.35726	0.010	12.97320	20.00000	Averaged	
152 Chlorobenzilate	0.33553	0.32598	0.32598	0.010	-2.84709	20.00000	Averaged	
153 3,3'-Dimethylbenzidine	0.56758	0.52497	0.52497	0.010	-7.50718	20.00000	Averaged	
155 2-Acetylaminofluorene	0.32414	0.32858	0.32858	0.010	1.36849	20.00000	Averaged	
157 7,12Dimethylbenz(a)anthrace	0.57754	0.63624	0.63624	0.010	10.16433	20.00000	Averaged	
158 3-Methylcholanthrene	0.51554	0.46208	0.46208	0.010	-10.36947	20.00000	Averaged	

QC Data

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	**224133**			**Matrix:**	**GROUND WATER**
Lab Sample ID:	**1201777447**				
Client Sample:	**QC for batch 841759**	**Client:**	**CH2M028**	**Project:**	**QC**
Client ID:	**MB for batch 841759**	**Method:**	**SW846 3510C/8270D**	**SOP Ref:**	**GL-OA-E-009**
Batch ID:	**841761**	**Inst:**	**MSD2.I**	**Dilution:**	**1**
Run Date:	**02/16/2009 15:19**	**Analyst:**	**AGS1**	**Inj. Vol:**	**.5 uL**
Prep Date:	**02/13/2009 13:10**	**Aliquot:**	**1000 mL**	**Final Volume:**	**1 mL**
Data File:	**s2b1606-1.d**	**Column:**	**J&W DB-5MS**	**Level:**	**LOW**

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	RDL
108-95-2	Phenol	U	10.0	ug/L	1.00	10.0	10.0
95-57-8	2-Chlorophenol	U	10.0	ug/L	2.00	10.0	10.0
106-46-7	1,4-Dichlorobenzene	U	10.0	ug/L	2.00	10.0	10.0
621-64-7	N-Nitrosodipropylamine	U	10.0	ug/L	2.00	10.0	10.0
59-50-7	4-Chloro-3-methylphenol	U	10.0	ug/L	2.00	10.0	10.0
83-32-9	Acenaphthene	U	1.00	ug/L	0.310	1.00	10.0
121-14-2	2,4-Dinitrotoluene	U	10.0	ug/L	2.00	10.0	10.0
100-02-7	4-Nitrophenol	U	10.0	ug/L	2.00	10.0	50.0
87-86-5	Pentachlorophenol	U	10.0	ug/L	2.00	10.0	50.0
129-00-0	Pyrene	U	1.00	ug/L	0.300	1.00	10.0
111-44-4	bis(2-Chloroethyl) ether	U	10.0	ug/L	2.00	10.0	10.0
541-73-1	1,3-Dichlorobenzene	U	10.0	ug/L	2.00	10.0	10.0
100-51-6	Benzyl alcohol	U	10.0	ug/L	2.00	10.0	10.0
95-50-1	1,2-Dichlorobenzene	U	10.0	ug/L	2.00	10.0	10.0
108-60-1	bis(2-Chloroisopropyl)ether	U	10.0	ug/L	2.00	10.0	10.0
95-48-7	o-Cresol	U	10.0	ug/L	2.00	10.0	10.0
106-44-5	m,p-Cresols	U	10.0	ug/L	3.00	10.0	10.0
65794-96-9							
67-72-1	Hexachloroethane	U	10.0	ug/L	2.00	10.0	10.0
98-95-3	Nitrobenzene	U	10.0	ug/L	3.00	10.0	10.0
78-59-1	Isophorone	U	10.0	ug/L	2.00	10.0	10.0
88-75-5	2-Nitrophenol	U	10.0	ug/L	2.00	10.0	10.0
105-67-9	2,4-Dimethylphenol	U	10.0	ug/L	2.00	10.0	10.0
111-91-1	bis(2-Chloroethoxy)methane	U	10.0	ug/L	3.00	10.0	10.0
120-83-2	2,4-Dichlorophenol	U	10.0	ug/L	2.00	10.0	10.0
65-85-0	Benzoic acid	U	20.0	ug/L	6.00	20.0	50.0
91-20-3	Naphthalene	U	1.00	ug/L	0.300	1.00	10.0
106-47-8	4-Chloroaniline	U	10.0	ug/L	2.00	10.0	10.0
87-68-3	Hexachlorobutadiene	U	10.0	ug/L	2.00	10.0	10.0
91-57-6	2-Methylnaphthalene	U	1.00	ug/L	0.300	1.00	10.0
77-47-4	Hexachlorocyclopentadiene	U	10.0	ug/L	2.00	10.0	10.0
88-06-2	2,4,6-Trichlorophenol	U	10.0	ug/L	2.00	10.0	10.0
95-95-4	2,4,5-Trichlorophenol	U	10.0	ug/L	1.00	10.0	50.0
91-58-7	2-Chloronaphthalene	U	1.00	ug/L	0.350	1.00	10.0
88-74-4	o-Nitroaniline	U	10.0	ug/L	2.00	10.0	50.0
99-09-2	m-Nitroaniline	U	10.0	ug/L	2.00	10.0	50.0
131-11-3	Dimethylphthalate	U	10.0	ug/L	2.00	10.0	10.0
606-20-2	2,6-Dinitrotoluene	U	10.0	ug/L	2.00	10.0	10.0
208-96-8	Acenaphthylene	U	1.00	ug/L	0.200	1.00	10.0

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	**224133**			**Matrix:**	**GROUND WATER**
Lab Sample ID:	**1201777447**				
Client Sample:	**QC for batch 841759**	**Client:**	**CH2M028**	**Project:**	**QC**
Client ID:	**MB for batch 841759**	**Method:**	**SW846 3510C/8270D**	**SOP Ref:**	**GL-OA-E-009**
Batch ID:	**841761**	**Inst:**	**MSD2.I**	**Dilution:**	**1**
Run Date:	**02/16/2009 15:19**	**Analyst:**	**AGS1**	**Inj. Vol:**	**.5 uL**
Prep Date:	**02/13/2009 13:10**	**Aliquot:**	**1000 mL**	**Final Volume:**	**1 mL**
Data File:	**s2b1606-1.d**	**Column:**	**J&W DB-5MS**	**Level:**	**LOW**

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	RDL
51-28-5	2,4-Dinitrophenol	U	20.0	ug/L	10.0	20.0	50.0
132-64-9	Dibenzofuran	U	10.0	ug/L	2.00	10.0	10.0
84-66-2	Diethylphthalate	U	10.0	ug/L	2.00	10.0	10.0
86-73-7	Fluorene	U	1.00	ug/L	0.200	1.00	10.0
7005-72-3	4-Chlorophenylphenylether	U	10.0	ug/L	2.00	10.0	10.0
534-52-1	2-Methyl-4,6-dinitrophenol	U	10.0	ug/L	3.00	10.0	50.0
100-01-6	p-Nitroaniline	U	10.0	ug/L	3.00	10.0	50.0
122-39-4	Diphenylamine	U	10.0	ug/L	3.00	10.0	10.0
101-55-3	4-Bromophenylphenylether	U	10.0	ug/L	2.00	10.0	10.0
118-74-1	Hexachlorobenzene	U	10.0	ug/L	2.00	10.0	10.0
85-01-8	Phenanthrene	U	1.00	ug/L	0.200	1.00	10.0
120-12-7	Anthracene	U	1.00	ug/L	0.200	1.00	10.0
84-74-2	Di-n-butylphthalate	U	10.0	ug/L	2.00	10.0	10.0
206-44-0	Fluoranthene	U	1.00	ug/L	0.200	1.00	10.0
85-68-7	Butylbenzylphthalate	U	10.0	ug/L	2.00	10.0	10.0
56-55-3	Benzo(a)anthracene	U	1.00	ug/L	0.200	1.00	10.0
91-94-1	3,3'-Dichlorobenzidine	U	10.0	ug/L	1.00	10.0	20.0
218-01-9	Chrysene	U	1.00	ug/L	0.200	1.00	10.0
117-81-7	bis(2-Ethylhexyl)phthalate	U	10.0	ug/L	2.00	10.0	10.0
117-84-0	Di-n-octylphthalate	U	10.0	ug/L	3.00	10.0	10.0
205-99-2	Benzo(b)fluoranthene	U	1.00	ug/L	0.200	1.00	10.0
207-08-9	Benzo(k)fluoranthene	U	1.00	ug/L	0.200	1.00	10.0
50-32-8	Benzo(a)pyrene	U	1.00	ug/L	0.200	1.00	10.0
193-39-5	Indeno(1,2,3-cd)pyrene	U	1.00	ug/L	0.200	1.00	10.0
53-70-3	Dibenzo(a,h)anthracene	U	1.00	ug/L	0.200	1.00	10.0
191-24-2	Benzo(ghi)perylene	U	1.00	ug/L	0.200	1.00	10.0
86-74-8	Carbazole	U	1.00	ug/L	0.200	1.00	10.0
120-82-1	1,2,4-Trichlorobenzene	U	10.0	ug/L	2.00	10.0	10.0

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	224133			Matrix:	GROUND WATER
Lab Sample ID:	1201777448				
Client Sample:	QC for batch 841759	Client:	CH2M028	Project:	QC
Client ID:	LCS for batch 841759	Method:	SW846 3510C/8270D	SOP Ref:	GL-OA-E-009
Batch ID:	841761	Inst:	MSD2.I	Dilution:	1
Run Date:	02/16/2009 15:41	Analyst:	AGS1	Inj. Vol:	.5 uL
Prep Date:	02/13/2009 13:10	Aliquot:	1000 mL	Final Volume:	1 mL
Data File:	s2b1607-1.d	Column:	J&W DB-5MS	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	RDL
108-95-2	Phenol		16.5	ug/L	1.00	10.0	10.0
95-57-8	2-Chlorophenol		37.4	ug/L	2.00	10.0	10.0
106-46-7	1,4-Dichlorobenzene		27.9	ug/L	2.00	10.0	10.0
621-64-7	N-Nitrosodipropylamine		42.0	ug/L	2.00	10.0	10.0
59-50-7	4-Chloro-3-methylphenol		40.1	ug/L	2.00	10.0	10.0
83-32-9	Acenaphthene		36.4	ug/L	0.310	1.00	10.0
121-14-2	2,4-Dinitrotoluene		41.9	ug/L	2.00	10.0	10.0
100-02-7	4-Nitrophenol	J	21.4	ug/L	2.00	10.0	50.0
87-86-5	Pentachlorophenol	J	39.7	ug/L	2.00	10.0	50.0
129-00-0	Pyrene		37.1	ug/L	0.300	1.00	10.0
111-44-4	bis(2-Chloroethyl) ether		38.8	ug/L	2.00	10.0	10.0
541-73-1	1,3-Dichlorobenzene		27.5	ug/L	2.00	10.0	10.0
100-51-6	Benzyl alcohol		30.7	ug/L	2.00	10.0	10.0
95-50-1	1,2-Dichlorobenzene		29.3	ug/L	2.00	10.0	10.0
108-60-1	bis(2-Chloroisopropyl)ether		41.0	ug/L	2.00	10.0	10.0
95-48-7	o-Cresol		35.3	ug/L	2.00	10.0	10.0
106-44-5	m,p-Cresols		33.4	ug/L	3.00	10.0	10.0
65794-96-9							
67-72-1	Hexachloroethane		28.9	ug/L	2.00	10.0	10.0
98-95-3	Nitrobenzene		40.1	ug/L	3.00	10.0	10.0
78-59-1	Isophorone		41.7	ug/L	2.00	10.0	10.0
88-75-5	2-Nitrophenol		38.8	ug/L	2.00	10.0	10.0
105-67-9	2,4-Dimethylphenol		38.3	ug/L	2.00	10.0	10.0
111-91-1	bis(2-Chloroethoxy)methane		38.1	ug/L	3.00	10.0	10.0
120-83-2	2,4-Dichlorophenol		37.3	ug/L	2.00	10.0	10.0
65-85-0	Benzoic acid	J	16.0	ug/L	6.00	20.0	50.0
91-20-3	Naphthalene		29.9	ug/L	0.300	1.00	10.0
106-47-8	4-Chloroaniline		43.5	ug/L	2.00	10.0	10.0
87-68-3	Hexachlorobutadiene		28.4	ug/L	2.00	10.0	10.0
91-57-6	2-Methylnaphthalene		35.8	ug/L	0.300	1.00	10.0
77-47-4	Hexachlorocyclopentadiene		31.0	ug/L	2.00	10.0	10.0
88-06-2	2,4,6-Trichlorophenol		40.8	ug/L	2.00	10.0	10.0
95-95-4	2,4,5-Trichlorophenol	J	38.8	ug/L	1.00	10.0	50.0
91-58-7	2-Chloronaphthalene		33.2	ug/L	0.350	1.00	10.0
88-74-4	o-Nitroaniline	J	47.4	ug/L	2.00	10.0	50.0
99-09-2	m-Nitroaniline	J	46.8	ug/L	2.00	10.0	50.0
131-11-3	Dimethylphthalate		42.0	ug/L	2.00	10.0	10.0
606-20-2	2,6-Dinitrotoluene		40.2	ug/L	2.00	10.0	10.0
208-96-8	Acenaphthylene		36.6	ug/L	0.200	1.00	10.0

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	**224133**			**Matrix:**	**GROUND WATER**
Lab Sample ID:	**1201777448**				
Client Sample:	**QC for batch 841759**	**Client:**	**CH2M028**	**Project:**	**QC**
Client ID:	**LCS for batch 841759**	**Method:**	**SW846 3510C/8270D**	**SOP Ref:**	**GL-OA-E-009**
Batch ID:	**841761**	**Inst:**	**MSD2.I**	**Dilution:**	**1**
Run Date:	**02/16/2009 15:41**	**Analyst:**	**AGS1**	**Inj. Vol:**	**.5 uL**
Prep Date:	**02/13/2009 13:10**	**Aliquot:**	**1000 mL**	**Final Volume:**	**1 mL**
Data File:	**s2b1607-1.d**	**Column:**	**J&W DB-5MS**	**Level:**	**LOW**

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	RDL
51-28-5	2,4-Dinitrophenol	J	43.5	ug/L	10.0	20.0	50.0
132-64-9	Dibenzofuran		36.4	ug/L	2.00	10.0	10.0
84-66-2	Diethylphthalate		43.0	ug/L	2.00	10.0	10.0
86-73-7	Fluorene		35.2	ug/L	0.200	1.00	10.0
7005-72-3	4-Chlorophenylphenylether		39.1	ug/L	2.00	10.0	10.0
534-52-1	2-Methyl-4,6-dinitrophenol	J	42.6	ug/L	3.00	10.0	50.0
100-01-6	p-Nitroaniline		51.6	ug/L	3.00	10.0	50.0
122-39-4	Diphenylamine		40.9	ug/L	3.00	10.0	10.0
101-55-3	4-Bromophenylphenylether		37.3	ug/L	2.00	10.0	10.0
118-74-1	Hexachlorobenzene		37.1	ug/L	2.00	10.0	10.0
85-01-8	Phenanthrene		35.4	ug/L	0.200	1.00	10.0
120-12-7	Anthracene		37.6	ug/L	0.200	1.00	10.0
84-74-2	Di-n-butylphthalate		42.1	ug/L	2.00	10.0	10.0
206-44-0	Fluoranthene		41.9	ug/L	0.200	1.00	10.0
85-68-7	Butylbenzylphthalate		37.3	ug/L	2.00	10.0	10.0
56-55-3	Benzo(a)anthracene		37.9	ug/L	0.200	1.00	10.0
91-94-1	3,3'-Dichlorobenzidine		27.2	ug/L	1.00	10.0	20.0
218-01-9	Chrysene		36.4	ug/L	0.200	1.00	10.0
117-81-7	bis(2-Ethylhexyl)phthalate		37.0	ug/L	2.00	10.0	10.0
117-84-0	Di-n-octylphthalate		50.4	ug/L	3.00	10.0	10.0
205-99-2	Benzo(b)fluoranthene		41.8	ug/L	0.200	1.00	10.0
207-08-9	Benzo(k)fluoranthene		45.7	ug/L	0.200	1.00	10.0
50-32-8	Benzo(a)pyrene		42.2	ug/L	0.200	1.00	10.0
193-39-5	Indeno(1,2,3-cd)pyrene		33.3	ug/L	0.200	1.00	10.0
53-70-3	Dibenzo(a,h)anthracene		35.3	ug/L	0.200	1.00	10.0
191-24-2	Benzo(ghi)perylene		32.3	ug/L	0.200	1.00	10.0
86-74-8	Carbazole		41.9	ug/L	0.200	1.00	10.0
120-82-1	1,2,4-Trichlorobenzene		29.0	ug/L	2.00	10.0	10.0

Miscellaneous Data

GEL ORGANIC RUN LOG INSTRUMENT ID: MSD2

DATE: 02/06/2009 METHOD:See raw data OPERATOR: AGS1 REVIEWED BY:_____
DATE:_____

HARDWARE CONFIGURATION & METHOD SUMMARY: No. 3 on pg. 3 SOLVENT LOT 1068820-D
Multiplier Voltage:1235 Emv Extr. Injection Volume: 0.5, 1.0 ul
DFTPP Solution ID: WBN090123-01 Internal Std ID: WBN090206-01
Calibration & QC Information
Initial Calibration Dates: See Calibration History and Standard Logbook.
Initial Calibration Std ID's: See Calibration History and Standard Logbook.
SOP: GL-OA-E-009 Rev. 21

Sequence Number: /chem/MSD2.i/s020609a.b

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
s2b0617.d	WBN090123-01	AGS1	06-FEB-2009 21:46	50 ng	s020609a	1.0	DFTPP	8270C TUNE passed
s2b0617-D.d	WBN090123-01	LOF	06-FEB-2009 21:46	50 ng	s020609a	1.0	DFTPP	8270D TUNE passed
s2b0618.d	INSTBLK	AGS1	06-FEB-2009 21:59	------	s020609a	1.0	INSTBLK	
s2b0619.d	WBN090205-08	AGS1	06-FEB-2009 22:20	1PPM	s020609a	1.0	MEGA001	DUSE
s2b0620.d	WBN090205-07	AGS1	06-FEB-2009 22:45	10PPM	s020609a	1.0	MEGA010	lev. 2
s2b0620-1.d	WBN090205-07	AGS1	06-FEB-2009 22:45	10PPM	s020609a	1.0	MEGA010	lev. 2 - requant as spl for 8270D; C184/ C55 passed 70-130%
s2b0621.d	WBN090205-06	AGS1	06-FEB-2009 23:10	20PPM	s020609a	1.0	MEGA020	lev. 3
s2b0622.d	WBN090205-05.1	AGS1	06-FEB-2009 23:35	40PPM	s020609a	1.0	MEGA040	lev. 4
s2b0623.d	WBN090205-04	AGS1	07-FEB-2009 00:01	50PPM	s020609a	1.0	MEGA050	lev. 5
s2b0624.d	WBN090205-08	AGS1	07-FEB-2009 00:26	1PPM	s020609a	1.0	MEGA001	lev. 1
s2b0625.d	WBN090205-03	AGS1	07-FEB-2009 00:51	80PPM	s020609a	1.0	MEGA080	lev. 6
s2b0626.d	WBN090205-02	AGS1	07-FEB-2009 01:17	100PPM	s020609a	1.0	MEGA100	lev. 7 no file s2b0627 & s2b0628 in sequence
s2b0629.d	WBN090205-01	AGS1	07-FEB-2009 01:42	120PPM	s020609a	1.0	MEGA120	lev. 8
s2b0630.d	INSTBLK	AGS1	07-FEB-2009 02:07	------	s020609a	1.0	INSTBLK	
s2b0631.d	WBN090205-09.1	AGS1	07-FEB-2009 02:29	40PPM	s020609a	1.0	MEGAICV	8270C passed EXCept C26 % Drift
s2b0631-D.d	WBN090205-09.1	AGS1	07-FEB-2009 02:29	40PPM	s020609a	1.0	MEGAICV	8270D passed EXCept C47 RF and C26/C179 % drift
s2b0631-BOE.d	WBN090205-09.1	AGS1	07-FEB-2009 02:29	40PPM	s020609a	1.0	MEGAICV	BOE passed
s2b0632.d	WBN090205-09.3	AGS1	07-FEB-2009 02:54	40PPM	s020609a	1.0	MEGAICV	DUSE
s2b0633.d	WBN090123-01	AGS1	07-FEB-2009 03:21	50 ng	s020609a	1.0	DFTPP	8270C TUNE passed

s2b0633-D.d	WBN090123-01	LOF	07-FEB-2009 03:21	50 ng	s020609a	1.0	DFTPP	8270D TUNE passed
s2b0634.d	INSTBLK	AGS1	07-FEB-2009 03:34	------	s020609a	1.0	INSTBLK	
s2b0635.d	WBN090128-08	AGS1	07-FEB-2009 03:55	10PPM	s020609a	1.0	AP010	DUSE
s2b0636.d	WBN090128-07	AGS1	07-FEB-2009 04:16	20PPM	s020609a	1.0	AP020	DUSE
s2b0637.d	WBN090128-06.1	AGS1	07-FEB-2009 04:37	40PPM	s020609a	1.0	AP040	DUSE see 020909.b
s2b0638.d	WBN090128-05	AGS1	07-FEB-2009 04:58	50PPM	s020609a	1.0	AP050	DUSE
s2b0639.d	WBN090128-04	AGS1	07-FEB-2009 05:19	80PPM	s020609a	1.0	AP080	DUSE
s2b0640.d	WBN090128-03	AGS1	07-FEB-2009 05:41	100PPM	s020609a	1.0	AP100	DUSE
s2b0641.d	WBN090128-02	AGS1	07-FEB-2009 06:02	120PPM	s020609a	1.0	AP120	DUSE
s2b0642.d	WBN090106-15	AGS1	07-FEB-2009 06:24	10PPM	s020609a	1.0	PEST010	lev. 2
s2b0643.d	WBN090106-14	AGS1	07-FEB-2009 06:46	20PPM	s020609a	1.0	PEST020	lev. 3
s2b0644.d	WBN090106-13.1	AGS1	07-FEB-2009 07:07	40PPM	s020609a	1.0	PEST040	lev. 4
s2b0645.d	WBN090106-12	AGS1	07-FEB-2009 07:29	50PPM	s020609a	1.0	PEST050	lev. 5
s2b0646.d	WBN090106-11	AGS1	07-FEB-2009 07:50	80PPM	s020609a	1.0	PEST080	lev. 6
s2b0647.d	WBN090106-10	AGS1	07-FEB-2009 08:12	100PPM	s020609a	1.0	PEST100	lev. 7
s2b0648.d	WBN090106-09	AGS1	07-FEB-2009 08:33	120PPM	s020609a	1.0	PEST120	lev. 8
s2b0649.d	UBN081109-01	AGS1	07-FEB-2009 08:55	10PPM	s020609a	1.0	NEV010	lev. 2
s2b0649-D.d	UBN081109-01	AGS1	07-FEB-2009 08:55	10PPM	s020609a	1.0	NEV010	lev. 2 - requanted as spl. for 8270D ; C235 - failed 70-130%
s2b0650.d	UBN081109-02	AGS1	07-FEB-2009 09:16	20PPM	s020609a	1.0	NEV020	lev. 3
s2b0651.d	UBN081109-03	AGS1	07-FEB-2009 09:38	40PPM	s020609a	1.0	NEV040	lev. 4
s2b0652.d	UBN081109-04	AGS1	07-FEB-2009 10:00	50PPM	s020609a	1.0	NEV050	lev. 5
s2b0653.d	UBN081109-05	AGS1	07-FEB-2009 10:21	80PPM	s020609a	1.0	NEV050	lev. 6
s2b0654.d	UBN081109-06	AGS1	07-FEB-2009 10:43	100PPM	s020609a	1.0	NEV100	lev. 7
s2b0655.d	INSTBLK	AGS1	07-FEB-2009 11:05	120PPM	s020609a	1.0	NEV120	lev. 8
s2b0656.d	WBN090129-16	AGS1	07-FEB-2009 11:26	500PPM	s020609a	1.0	HEX500	lev. 2
s2b0656-D.d	WBN090129-16	AGS1	07-FEB-2009 11:26	500PPM	s020609a	1.0	HEX500	lev. 3
s2b0657.d	WBN090129-15	AGS1	07-FEB-2009 11:47	1000PPM	s020609a	1.0	HEX1000	lev. 4

GEL ORGANI RUN OG

DATE: 02/16/2

HARDWARE CONF
Multiplier Vo
DFTPP Soluti
Calibration
Initial Cali
Initial Cali
SOP: GL-OA-E-

Sequence Numl

Data File	GEL La
s2b1601-D.d	WBN090123
s2b1601.d	WBN090123
s2b1602-625.d	WBN09020
s2b1602.d	WBN090205-
s2b1603-625.d	WBN090205
s2b1603-D.d	WBN090205-
s2b1603.d	WBN090205-(
s2b1604-625.d	WBN090128-
s2b1604-D.d	WBN090128-0
s2b1604.d	WBN090128-0
s2b1605-D.d	WBN090106-1
s2b1605.d	WBN090106-13
s2b1606-1.d	1201777447
s2b1606-2.d	1201777447
s2b1606.d	1201777447
s2b1607-1.d	1201777448

Instrument Batch:

Data File	GEL Lab Sam

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s2b0658.d	WBN090129-14	AGS1	07-FEB-2009 12:09	1250PPM	s020609a	1.0	HEX1250	lev. 5
s2b0659.d	WBN090129-13	AGS1	07-FEB-2009 12:30	1500PPM	s020609a	1.0	HEX1500	lev. 6
s2b0660.d	WBN090129-12	AGS1	07-FEB-2009 12:52	1750PPM	s020609a	1.0	HEX1750	lev. 7
s2b0661.d	UBN081103-01.6	AGS1	07-FEB-2009 13:13	2000PPM	s020609a	1.0	HEX2000	DUSE no lev. 8
s2b0662.d	INSTBLK	AGS1	07-FEB-2009 13:35	------	s020609a	1.0	INSTBLK	
s2b0663.d	WBN090128-16.1	AGS1	07-FEB-2009 13:56	40PPM	s020609a	1.0	APICV	DUSE
s2b0663-D.d	WBN090128-16.1	AGS1	07-FEB-2009 13:56	40PPM	s020609a	1.0	APICV	DUSE
s2b0664.d	WBN090106-17.1	AGS1	07-FEB-2009 14:17	40PPM	s020609a	1.0	PESTICV	8270C passed
s2b0664-D.d	WBN090106-17.1	AGS1	07-FEB-2009 14:17	40PPM	s020609a	1.0	PESTICV	8270D passed
s2b0665.d	UBN081231-01.1	AGS1	07-FEB-2009 14:39	40PPM	s020609a	1.0	NEVICV	8270C passed
s2b0665-D.d	UBN081231-01.1	AGS1	07-FEB-2009 14:39	40PPM	s020609a	1.0	NEVICV	8270D passed
s2b0666.d	WBN090129-10.1	AGS1	07-FEB-2009 15:00	1250PPM	s020609a	1.0	HEXICV	8270C passed
s2b0666-D.d	WBN090129-10.1	AGS1	07-FEB-2009 15:00	1250PPM	s020609a	1.0	HEXICV	8270D passed

8270C PASSES SC REQUIREMENTS FOR LEV. 1/ LEV. 2 RESPONSES; 8270C PASSES FOR BOE

MEGA 8270C ICAL: C26(phthalic anhyd.) RSD = 22%; MEGA 8270C ICV : C26 > 60% DRIFT
AP 8270C ICAL: C16/123/125/142/146 RSD >15%; AP 8270C ICV : PASSED
PEST / NEV / HEX 8270C ICAL: PASSED; PEST/NEV/HEX ICV : PASSED

MEGA 8270D ICAL: C47 RF FAILED min.= 0.9; C26(phthalic anhyd.) RSD = 22%; MEGA 8270D ICV : FAILED C47 RF < 0.9; C26/ C179 > 30% DRIFT
AP 8270D ICAL: PASSED AP 8270D ICV : PASSED
PEST / HEX 8270D ICAL: PASSED; PEST / HEX ICV : PASSED
NEV 8270D ICAL: C235 FAILED 70% - 130% limit when lev. 2 requanted as sample NEV 8270D ICV : PASSED

Instrument Batch: /chem/MSD2.i/s020609a.b

Page: 1

s2b1607-2.d	1201777448	AGS1	16-FEB-2009 15:41	841761	224332	1.0	LCS	USE	
s2b1607.d	1201777448	AGS1	16-FEB-2009 15:41	841761	224133	1.0	LCS	USE	
s2b1608.d	1201777453	AGS1	16-FEB-2009 16:02	841764	09-822	1.0	MB	USE	
s2b1609.d	1201777454	AGS1	16-FEB-2009 16:23	841764	09-822	1.0	LCS	USE	
s2b1610.d	224138001	AGS1	16-FEB-2009 16:45	841764	09-822	1.0	LANL_RE	USE	
s2b1611.d	1201777455	AGS1	16-FEB-2009 17:06	841764	09-822	1.0	MS	USE	
s2b1612.d	1201777456	AGS1	16-FEB-2009 17:27	841764	09-822	1.0	MSD	USE	
s2b1613.d	224133001	AGS1	16-FEB-2009 17:48	841761	224133	1.0	CH2M	USE SUR LOW	no spl to RE
s2b1614.d	224133002	AGS1	16-FEB-2009 18:09	841761	224133	1.0	CH2M	USE SUR LOW	no spl to RE
s2b1615.d	224133003	AGS1	16-FEB-2009 18:30	841761	224133	1.0	CH2M	USE	
s2b1616.d	224198002	AGS1	16-FEB-2009 18:50	841761	224198	1.0	GEEL_TUPP	USE	
s2b1617.d	1201777451	AGS1	16-FEB-2009 19:11	841761	224198	1.0	MS	USE	
s2b1618.d	1201777452	AGS1	16-FEB-2009 19:32	841761	224198	1.0	MSD	USE	
s2b1619.d	224198003	AGS1	16-FEB-2009 19:53	841761	224198	1.0	GEEL_TUPP	SUR LOW RE	
s2b1620.d	224198004	AGS1	16-FEB-2009 20:13	841761	224198	1.0	GEEL_TUPP	USE	
s2b1621.d	224332003	AGS1	16-FEB-2009 20:34	841761	224332	1.0	METO	USE SUR LOW	no spl to RE
s2b1622-1.d	1201778540	AGS1	16-FEB-2009 20:55	842250	224553	1.0	MB	USE	
s2b1622.d	1201778540	AGS1	16-FEB-2009 20:55	842250	224482	1.0	MB	USE	
s2b1623-1.d	1201778541	AGS1	16-FEB-2009 21:16	842250	224553	1.0	LCS	USE	
s2b1623.d	1201778541	AGS1	16-FEB-2009 21:16	842250	224482	1.0	LCS	USE	
s2b1624.d	224482002	AGS1	16-FEB-2009 21:36	842250	224482	1.0	GEEL_ASH2	USE	
s2b1625.d	1201778542	AGS1	16-FEB-2009 21:57	842250	224482	1.0	MS	USE	
s2b1626.d	1201778543	AGS1	16-FEB-2009 22:17	842250	224482	1.0	MSD	USE	
s2b1627.d	224482003	AGS1	16-FEB-2009 22:38	842250	224482	1.0	GEEL_ASH2	USE	
s2b1628.d	224482004	AGS1	16-FEB-2009 22:59	842250	224482	1.0	GEEL_ASH2	USE	
s2b1629.d	224482005	AGS1	16-FEB-2009 23:20	842250	224482	1.0	GEEL_ASH2	USE	
s2b1630.d	224482006	AGS1	16-FEB-2009 23:40	842250	224482	1.0	GEEL_ASH2	USE	

s2b1631.d	224553001	AGS1	17-FEB-2009 00:01	842250	224553		10.0	COMM	USE

(s10HInstrument Batch: /chem/MSD2.i/s021609.b

GEL Laboratories LLC
Form GEL-NCR
Rev. 06/05

NCR Report No.: 658722
Revision No.:

COMPANY - WIDE NONCONFORMANCE REPORT

Mo.Day Yr.	Division:	Quality Criteria:	Type:
17-FEB-09	Industrial	Specifications	Process
Instrument Type:	**Test / Method:**	**Matrix Type:**	**Client Code:**
SEMIVOA GC/MS	SW846 3510C/8270D	Liquid	CH2M, METO, TUPP
Batch ID:	**Sample Numbers:**		
841761	See Below		

Potentially affected work order(s)(SDG): 224133,224198,224332

Application Issues:

Failed Yield for Surrogates

Specification and Requirements Nonconformance Description:	NRG Disposition:
1. CH2M samples 224133001 and 224133002 recovered multiple surrogates outside of the acceptance criteria. Please see QC reports for specific failures.	1. There is no sample left to perform a re-extraction. Data were reported.
2. TUPP samples 224198003 recovered the surrogate 2,4,6-Tribromophenol at 17.68%. The limits are 35.80% to 113.60%.	2. Sample was sent back for re-extraction. See Batch 843274.
3. METO sample 224332003 recovered the surrogate 2,4,6-Tribromophenol at 29.8%.	3. There is no sample left to perform a re-extraction. Data were reported.

Originator's Name:
Anne Salter 18-FEB-09

Data Validator/Group Leader:
Daniel Beacham 19-FEB-09

Quality Review:

Director: