CENTRAL REGIONAL LABORATORY
Data Checklist

US EPA RECORDS CENTER REGION 5
586649

Work Order SF0305007 Indiana Harbor
SVOA - PAHs

- [x] **Chain of Custody**
- [x] **Supporting information (raw date) present; not for transmission**
- [x] **QC data present; whether being transmitted or not**
- [x] **LIMS Invoice #** 3072902
- [x] **Analytical and Data Review Checklist, one signed by the analyst and another signed by the reviewer - signatures may be on the same form but there should be a separate set of check boxes for each signer.**
- [x] **Final report from LIMS, each report page initialed and dated by analyst**
- [x] **Reviewed Case Narrative initialed by Deputy Director**
- [x] **Transmittal Memo w/signatures of the following:**
    - Analyst (s)
    - Environmental Data Coordinator

Prepared by: _____
Environmental Data Coordinator

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5 CENTRAL REGIONAL LABORATORY
536 SOUTH CLARK STREET
CHICAGO, ILLINOIS 60605

Date: 7/28/2003

Subject: Review of Region 5 Data for Indiana Harbor

From: Babu Paruchuri, Group Leader BP
Region 5 Central Regional Laboratory

To: Superfund, US EPA Region 5
77 West Jackson Boulevard
Chicago, IL 60604

Attached are Results for: Indiana Harbor

Analyses included in this report:

SVOA - PAHs

JUL 2 /9 2003

Data Management Coordinator and Date Received

Date Transmitted: JUL 2 9/ 2003

Please have the U.S. EPA Project Manager/Officer call the CRL Sample Coordinator at 3-7444 for any comments or questions.

Please sign and date this form below and return it with any comments to:

Sylvia Griffin
Data Management Coordinator
Region 5 Central Regional Laboratory
ML-10C

_____ /____/_____

Received by and Date

Comments:

CASE NARRATIVE

DATE: July 28, 2003

PROJECT NAME: Indiana Harbor - CRL W.O. # 0305007 Analysis of Polynuclear Aromatic Hydrocarbons (PAHs) by GC/MS

PRIMARY ANALYST: Babu Paruchuri, Chemist BP

PEER REVIEWER: Larry Zintek, Chemist LZ

I. CASE DESCRIPTION:

The laboratory extracted and analyzed, within sample extraction hold times except sample 0305007-37, the site samples for PAHs and generated data of acceptable quality as per the CRL QA/QC requirements.

II. METHOD QUALITY CONTROL:

1. Initial and Continuing Calibration:

The lab did not meet calibration QC requirements for the following methods for compounds listed in parenthesis: 1C611261.M [(benzo(g,h,i)perylene)], 1C612261.M [(indeno-(1,2,3-cd)pyrene, dibenz(a,h)-anthracene and benzo(g,h,i)-perylene] and 1C612262.M [dibenz(a,h)anthracene and benzo-(g,h,i)perylene.] Therefore, the affected compound data were qualified estimated, 'UJ' for non-detects and 'J' otherwise.

2. Surrogate Spike Compound Results:

Surrogate spike compound recoveries were biased low in sample # 0305007-35MS and high in # 0305007-25. Therefore, the affected compound data for sample 0305007-25 were qualified estimated, 'K' (biased high) for detects. See sec. II.4 for sample # 0305007-35 data qualification.

3. Laboratory Control Sample (LCS):

Soil method accuracy data was acceptable for all of the target compounds. Therefore, no data qualification was needed. The lab used the LCS sample recovery data to assess the site sample # 0305007-40 data quality since the field sample was diluted significantly.

The lab does not qualify site data solely based on lab precision measurements. It uses the precision data for informational purposes only.

4. **Matrix Spike and Matrix Spike Duplicate Samples (MS/MSD):**

The lab conducted site specific precision and accuracy studies by spiking and analyzing field samples # 0305007-25, 0305007-35, and 0305007-40. Accuracy data for # 0305007-25 and 0305007-35 were biased high. Therefore, the affected compound data were qualified estimated, 'K' (biased high) for detects. As mentioned above, site sample 0305007-40 data quality was assessed based on spike recoveries of the LCS sample QC results (Sec. II.2).

IV. SAMPLE RESULTS:

The laboratory generated data of acceptable quality as per the CRL QA/QC requirements except field sample 0305007-37.

Environmental Protection Agency Region 5
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Superfund, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Indiana Harbor Project Number: [none] Project Manager: Betty Lavis	**Reported:** Jul-28-03 12:09

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SX67-3	0305007-01	Soil	May-21-03 00:00	May-22-03 14:08
SX61-1	0305007-02	Soil	May-21-03 00:00	May-22-03 14:08
DNS-2	0305007-03	Soil	May-21-03 00:00	May-22-03 14:08
OP367-1	0305007-04	Soil	May-21-03 00:00	May-22-03 14:08
SX67-2	0305007-05	Soil	May-21-03 00:00	May-22-03 14:08
SX61-3	0305007-06	Soil	May-21-03 00:00	May-22-03 14:08
DN182-2	0305007-07	Soil	May-21-03 00:00	May-22-03 14:08
SV1-1	0305007-08	Soil	May-21-03 00:00	May-22-03 14:08
DN182-1	0305007-09	Soil	May-21-03 00:00	May-22-03 14:08
SV1-4	0305007-10	Soil	May-21-03 00:00	May-22-03 14:08
SX67-1	0305007-11	Soil	May-21-03 00:00	May-22-03 14:08
OP367-2	0305007-12	Soil	May-21-03 00:00	May-22-03 14:08
NM6-2	0305007-13	Soil	May-21-03 00:00	May-22-03 14:08
SV1-3	0305007-14	Soil	May-21-03 00:00	May-22-03 14:08
SV1-2	0305007-15	Soil	May-21-03 00:00	May-22-03 14:08
SR3-4	0305007-16	Soil	May-22-03 00:00	May-22-03 14:08
SR1-2	0305007-17	Soil	May-22-03 00:00	May-22-03 14:08
OP367-4	0305007-18	Soil	May-22-03 00:00	May-22-03 14:08
DN5-3	0305007-19	Soil	May-22-03 00:00	May-22-03 14:08
SR5-6	0305007-20	Soil	May-22-03 00:00	May-22-03 14:08
SX67-5	0305007-21	Soil	May-22-03 00:00	May-22-03 14:08
SV1-5	0305007-22	Soil	May-22-03 00:00	May-22-03 14:08
SRN 3-4	0305007-23	Soil	May-22-03 00:00	May-22-03 14:08
SX61-4	0305007-24	Soil	May-22-03 00:00	May-22-03 14:08
DN182-4	0305007-25	Soil	May-22-03 00:00	May-22-03 14:08
SX67-4	0305007-26	Soil	May-22-03 00:00	May-22-03 14:08
OP367-3	0305007-27	Soil	May-22-03 00:00	May-22-03 14:08
SX61-6	0305007-28	Soil	May-22-03 00:00	May-22-03 14:08

Babu Paruchuri 7/28/03

Babu Paruchuri, Group Leader

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ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PHRAGMITES	0305007-29	Soil	May-22-03 00:00	May-22-03 14:08
SV1-6	0305007-30	Soil	May-22-03 00:00	May-22-03 14:08
DN182-3	0305007-31	Soil	May-22-03 00:00	May-22-03 14:08
SRN1-2	0305007-32	Soil	May-22-03 00:00	May-22-03 14:08
SRN5-6	0305007-33	Soil	May-22-03 00:00	May-22-03 14:08
SX61-5	0305007-34	Soil	May-22-03 00:00	May-22-03 14:08
NM6-3	0305007-35	Soil	May-22-03 00:00	May-22-03 14:08
SX67-6	0305007-36	Soil	May-22-03 00:00	May-22-03 14:08
DN5-4	0305007-37	Soil	May-22-03 00:00	May-22-03 14:08
DN5-1	0305007-38	Soil	May-22-03 00:00	May-22-03 14:08
NM6-1	0305007-39	Soil	May-22-03 00:00	May-22-03 14:08
SX61-2	0305007-40	Soil	May-22-03 00:00	May-22-03 14:08

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Superfund, US EPA Region 5	Project: Indiana Harbor	
77 West Jackson Boulevard	Project Number: [none]	**Reported:**
Chicago IL, 60604	Project Manager: Betty Lavis	Jul-28-03 12:09

Semivolatiles by GC/MS
US EPA Region 5 Central Regional Laboratory

SX67-3 (0305007-01) Soil Sampled: May-21-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Naphthalene	U			33400	ug/kg dry	1	B305027	May-27-0	Jun-03-03
2-Methylnaphthalene	U			33400	"	"	"	"	"
Acenaphthylene	U			33400	"	"	"	"	"
Acenaphthene	U			33400	"	"	"	"	"
Dibenzofuran	U			33400	"	"	"	"	"
Fluorene	U			33400	"	"	"	"	"
Phenanthrene	U			33400	"	"	"	"	"
Anthracene	U			33400	"	"	"	"	"
Carbazole	U			33400	"	"	"	"	"
Fluoranthene	**34800**			33400	"	"	"	"	"
Pyrene	**136000**			33400	"	"	"	"	"
Chrysene	**90300**			33400	"	"	"	"	"
Benzo (a) anthracene	**40600**			33400	"	"	"	"	"
Benzo (b) fluoranthene	U			33400	"	"	"	"	"
Benzo (k) fluoranthene	U			33400	"	"	"	"	"
Benzo (a) pyrene	**54200**			33400	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	U			33400	"	"	"	"	"
Dibenz (a,h) anthracene	U			33400	"	"	"	"	"
Benzo (g,h,i) perylene	U			33400	"	"	"	"	"
Surrogate: Nitrobenzene-d5	27500			*82.1 %*	*38-104*		"	"	"
Surrogate: 2-Fluorobiphenyl	27900			*83.3 %*	*52.1-104*		"	"	"
Surrogate: Terphenyl-d14	23000			*68.7 %*	*62.9-126*		"	"	"

SX61-1 (0305007-02) Soil Sampled: May-21-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Naphthalene	U			23900	ug/kg dry	1	B305027	May-27-0	Jun-03-03
2-Methylnaphthalene	U			23900	"	"	"	"	"
Acenaphthylene	U			23900	"	"	"	"	"
Acenaphthene	U			23900	"	"	"	"	"
Dibenzofuran	U			23900	"	"	"	"	"
Fluorene	U			23900	"	"	"	"	"
Phenanthrene	U			23900	"	"	"	"	"
Anthracene	U			23900	"	"	"	"	"
Carbazole	U			23900	"	"	"	"	"

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Chicago IL, 60604	Project Manager: Betty Lavis	Jul-28-03 12:09

Semivolatiles by GC/MS

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SX61-1 (0305007-02) Soil Sampled: May-21-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Fluoranthene	**67900**			23900	ug/kg dry	1	B305027	May-27-0	Jun-03-03
Pyrene	**177000**			23900	"	"	"	"	"
Chrysene	**170000**			23900	"	"	"	"	"
Benzo (a) anthracene	**70600**			23900	"	"	"	"	"
Benzo (b) fluoranthene	**34200**			23900	"	"	"	"	"
Benzo (k) fluoranthene	**U**			23900	"	"	"	"	"
Benzo (a) pyrene	**79700**			23900	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	**U**			23900	"	"	"	"	"
Dibenz (a,h) anthracene	**U**			23900	"	"	"	"	"
Benzo (g,h,i) perylene	**25000**			23900	"	"	"	"	"
Surrogate: Nitrobenzene-d5	22000			*92.1 %*	*38-104*		"	"	"
Surrogate: 2-Fluorobiphenyl	23900			*100 %*	*52.1-104*		"	"	"
Surrogate: Terphenyl-d14	17100			*71.5 %*	*62.9-126*		"	"	"

DNS-2 (0305007-03) Soil Sampled: May-21-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Naphthalene	**U**			25400	ug/kg dry	1	B305027	May-27-0	Jun-03-03
2-Methylnaphthalene	**U**			25400	"	"	"	"	"
Acenaphthylene	**U**			25400	"	"	"	"	"
Acenaphthene	**U**			25400	"	"	"	"	"
Dibenzofuran	**U**			25400	"	"	"	"	"
Fluorene	**U**			25400	"	"	"	"	"
Phenanthrene	**U**			25400	"	"	"	"	"
Anthracene	**U**			25400	"	"	"	"	"
Carbazole	**U**			25400	"	"	"	"	"
Fluoranthene	**52800**			25400	"	"	"	"	"
Pyrene	**142000**			25400	"	"	"	"	"
Chrysene	**111000**			25400	"	"	"	"	"
Benzo (a) anthracene	**47600**			25400	"	"	"	"	"
Benzo (b) fluoranthene	**29600**			25400	"	"	"	"	"
Benzo (k) fluoranthene	**U**			25400	"	"	"	"	"
Benzo (a) pyrene	**48800**			25400	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	**U**			25400	"	"	"	"	"
Dibenz (a,h) anthracene	**U**			25400	"	"	"	"	"

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77 West Jackson Boulevard	Project Number: [none]	**Reported:**
Chicago IL, 60604	Project Manager: Betty Lavis	Jul-28-03 12:09

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US EPA Region 5 Central Regional Laboratory

DNS-2 (0305007-03) Soil Sampled: May-21-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Benzo (g,h,i) perylene	**U**			25400	ug/kg dry	1	B305027	May-27-0	Jun-03-03
Surrogate: Nitrobenzene-d5	20800			*81.6 %*	*38-104*		"	"	"
Surrogate: 2-Fluorobiphenyl	21500			*84.3 %*	*52.1-104*		"	"	"
Surrogate: Terphenyl-d14	16900			*66.3 %*	*62.9-126*		"	"	"

OP367-1 (0305007-04) Soil Sampled: May-21-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Naphthalene	**U**			8230	ug/kg dry	1	B305027	May-27-0	Jun-03-03
2-Methylnaphthalene	**U**			8230	"	"	"	"	"
Acenaphthylene	**U**			8230	"	"	"	"	"
Acenaphthene	**U**			8230	"	"	"	"	"
Dibenzofuran	**U**			8230	"	"	"	"	"
Fluorene	**U**			8230	"	"	"	"	"
Phenanthrene	**U**			8230	"	"	"	"	"
Anthracene	**U**			8230	"	"	"	"	"
Carbazole	**U**			8230	"	"	"	"	"
Fluoranthene	**30200**			8230	"	"	"	"	"
Pyrene	**75700**			8230	"	"	"	"	"
Chrysene	**85900**			8230	"	"	"	"	"
Benzo (a) anthracene	**33600**			8230	"	"	"	"	"
Benzo (b) fluoranthene	**22800**			8230	"	"	"	"	"
Benzo (k) fluoranthene	**U**			8230	"	"	"	"	"
Benzo (a) pyrene	**44300**			8230	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	**U**			8230	"	"	"	"	"
Dibenz (a,h) anthracene	**U**			8230	"	"	"	"	"
Benzo (g,h,i) perylene	**12800**			8230	"	"	"	"	"
Surrogate: Nitrobenzene-d5	6560			*79.6 %*	*38-104*		"	"	"
Surrogate: 2-Fluorobiphenyl	6950			*84.3 %*	*52.1-104*		"	"	"
Surrogate: Terphenyl-d14	5120			*62.1 %*	*62.9-126*		"	"	"

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77 West Jackson Boulevard	Project Number: [none]	**Reported:**
Chicago IL, 60604	Project Manager: Betty Lavis	Jul-28-03 12:09

Semivolatiles by GC/MS
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SX67-2 (0305007-05) Soil Sampled: May-21-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Naphthalene	**U**			8700	ug/kg dry	1	B305027	May-27-0	Jun-03-03
2-Methylnaphthalene	**U**			8700	"	"	"	"	"
Acenaphthylene	**U**			8700	"	"	"	"	"
Acenaphthene	**U**			8700	"	"	"	"	"
Dibenzofuran	**U**			8700	"	"	"	"	"
Fluorene	**U**			8700	"	"	"	"	"
Phenanthrene	**U**			8700	"	"	"	"	"
Anthracene	**U**			8700	"	"	"	"	"
Carbazole	**U**			8700	"	"	"	"	"
Fluoranthene	**20600**			8700	"	"	"	"	"
Pyrene	**55900**			8700	"	"	"	"	"
Chrysene	**53500**			8700	"	"	"	"	"
Benzo (a) anthracene	**20900**			8700	"	"	"	"	"
Benzo (b) fluoranthene	**12600**			8700	"	"	"	"	"
Benzo (k) fluoranthene	**U**			8700	"	"	"	"	"
Benzo (a) pyrene	**24100**			8700	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	**U**			8700	"	"	"	"	"
Dibenz (a,h) anthracene	**U**			8700	"	"	"	"	"
Benzo (g,h,i) perylene	**8730**			8700	"	"	"	"	"
Surrogate: Nitrobenzene-d5	6850			*78.6 %*	*38-104*		"	"	"
Surrogate: 2-Fluorobiphenyl	7320			*84.0 %*	*52.1-104*		"	"	"
Surrogate: Terphenyl-d14	5350			*61.4 %*	*62.9-126*		"	"	"

SX61-3 (0305007-06) Soil Sampled: May-21-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Naphthalene	**U**			16200	ug/kg dry	1	B305027	May-27-0	Jun-03-03
2-Methylnaphthalene	**U**			16200	"	"	"	"	"
Acenaphthylene	**U**			16200	"	"	"	"	"
Acenaphthene	**U**			16200	"	"	"	"	"
Dibenzofuran	**U**			16200	"	"	"	"	"
Fluorene	**16300**			16200	"	"	"	"	"
Phenanthrene	**U**			16200	"	"	"	"	"
Anthracene	**U**			16200	"	"	"	"	"
Carbazole	**U**			16200	"	"	"	"	"

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Chicago IL, 60604	Project Manager: Betty Lavis	Jul-28-03 12:09

Semivolatiles by GC/MS
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SX61-3 (0305007-06) Soil Sampled: May-21-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Fluoranthene	**63300**			16200	ug/kg dry	1	B305027	May-27-0	Jun-03-03
Pyrene	**169000**			16200	"	"	"	"	"
Chrysene	**163000**			16200	"	"	"	"	"
Benzo (a) anthracene	**63600**			16200	"	"	"	"	"
Benzo (b) fluoranthene	**38800**			16200	"	"	"	"	"
Benzo (k) fluoranthene	**U**			16200	"	"	"	"	"
Benzo (a) pyrene	**72800**			16200	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	**U**			16200	"	"	"	"	"
Dibenz (a,h) anthracene	**U**			16200	"	"	"	"	"
Benzo (g,h,i) perylene	**19300**			16200	"	"	"	"	"
Surrogate: Nitrobenzene-d5	12800			*79.0 %*	*38-104*		"	"	"
Surrogate: 2-Fluorobiphenyl	15900			*98.1 %*	*52.1-104*		"	"	"
Surrogate: Terphenyl-d14	12800			*79.0 %*	*62.9-126*		"	"	"

DN182-2 (0305007-07) Soil Sampled: May-21-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Naphthalene	**U**			8640	ug/kg dry	1	B305027	May-27-0	Jun-03-03
2-Methylnaphthalene	**U**			8640	"	"	"	"	"
Acenaphthylene	**U**			8640	"	"	"	"	"
Acenaphthene	**U**			8640	"	"	"	"	"
Dibenzofuran	**U**			8640	"	"	"	"	"
Fluorene	**U**			8640	"	"	"	"	"
Phenanthrene	**U**			8640	"	"	"	"	"
Anthracene	**U**			8640	"	"	"	"	"
Carbazole	**U**			8640	"	"	"	"	"
Fluoranthene	**10200**			8640	"	"	"	"	"
Pyrene	**47000**			8640	"	"	"	"	"
Chrysene	**41800**			8640	"	"	"	"	"
Benzo (a) anthracene	**16100**			8640	"	"	"	"	"
Benzo (b) fluoranthene	**17400**			8640	"	"	"	"	"
Benzo (k) fluoranthene	**U**			8640	"	"	"	"	"
Benzo (a) pyrene	**33400**			8640	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	**U**			8640	"	"	"	"	"
Dibenz (a,h) anthracene	**U**			8640	"	"	"	"	"

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Superfund, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Indiana Harbor Project Number: [none] Project Manager: Betty Lavis	**Reported:** Jul-28-03 12:09

Semivolatiles by GC/MS
US EPA Region 5 Central Regional Laboratory

DN182-2 (0305007-07) Soil Sampled: May-21-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Benzo (g,h,i) perylene	**12700**			8640	ug/kg dry	1	B305027	May-27-0	Jun-03-03
Surrogate: Nitrobenzene-d5	6880			*79.5 %*	*38-104*		"	"	"
Surrogate: 2-Fluorobiphenyl	7130			*82.4 %*	*52.1-104*		"	"	"
Surrogate: Terphenyl-d14	7330			*84.7 %*	*62.9-126*		"	"	"

SV1-1 (0305007-08) Soil Sampled: May-21-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Naphthalene	**U**			30800	ug/kg dry	1	B305027	May-27-0	Jun-11-03
2-Methylnaphthalene	**U**			30800	"	"	"	"	"
Acenaphthylene	**U**			30800	"	"	"	"	"
Acenaphthene	**U**			30800	"	"	"	"	"
Dibenzofuran	**U**			30800	"	"	"	"	"
Fluorene	**U**			30800	"	"	"	"	"
Phenanthrene	**U**			30800	"	"	"	"	"
Anthracene	**U**			30800	"	"	"	"	"
Carbazole	**U**			30800	"	"	"	"	"
Fluoranthene	**93200**			30800	"	"	"	"	"
Pyrene	**241000**			30800	"	"	"	"	"
Chrysene	**206000**			30800	"	"	"	"	"
Benzo (a) anthracene	**94600**			30800	"	"	"	"	"
Benzo (b) fluoranthene	**55900**			30800	"	"	"	"	"
Benzo (k) fluoranthene	**U**			30800	"	"	"	"	"
Benzo (a) pyrene	**102000**			30800	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	**U**			30800	"	"	"	"	"
Dibenz (a,h) anthracene	**U**			30800	"	"	"	"	"
Benzo (g,h,i) perylene	**50400**	J		30800	"	"	"	"	"
Surrogate: Nitrobenzene-d5	32800			*106 %*	*38-104*		"	"	"
Surrogate: 2-Fluorobiphenyl	30500			*99.0 %*	*52.1-104*		"	"	"
Surrogate: Terphenyl-d14	31500			*102 %*	*62.9-126*		"	"	"

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Superfund, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Indiana Harbor Project Number: [none] Project Manager: Betty Lavis	**Reported:** Jul-28-03 12:09

Semivolatiles by GC/MS
US EPA Region 5 Central Regional Laboratory

DN182-1 (0305007-09) Soil Sampled: May-21-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Naphthalene	U			8560	ug/kg dry	1	B305027	May-27-0	Jun-11-03
2-Methylnaphthalene	U			8560	"	"	"	"	"
Acenaphthylene	U			8560	"	"	"	"	"
Acenaphthene	U			8560	"	"	"	"	"
Dibenzofuran	U			8560	"	"	"	"	"
Fluorene	U			8560	"	"	"	"	"
Phenanthrene	U			8560	"	"	"	"	"
Anthracene	U			8560	"	"	"	"	"
Carbazole	U			8560	"	"	"	"	"
Fluoranthene	**20500**			8560	"	"	"	"	"
Pyrene	**74200**			8560	"	"	"	"	"
Chrysene	**72200**			8560	"	"	"	"	"
Benzo (a) anthracene	**30100**			8560	"	"	"	"	"
Benzo (b) fluoranthene	**24400**			8560	"	"	"	"	"
Benzo (k) fluoranthene	U			8560	"	"	"	"	"
Benzo (a) pyrene	**46000**			8560	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	U			8560	"	"	"	"	"
Dibenz (a,h) anthracene	U			8560	"	"	"	"	"
Benzo (g,h,i) perylene	**20300**	J		8560	"	"	"	"	"
Surrogate: Nitrobenzene-d5	7580			*88.4 %*	*38-104*		"	"	"
Surrogate: 2-Fluorobiphenyl	7170			*83.7 %*	*52.1-104*		"	"	"
Surrogate: Terphenyl-d14	9280			*108 %*	*62.9-126*		"	"	"

SV1-4 (0305007-10) Soil Sampled: May-21-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Naphthalene	U			28600	ug/kg dry	1	B305027	May-27-0	Jun-11-03
2-Methylnaphthalene	U			28600	"	"	"	"	"
Acenaphthylene	U			28600	"	"	"	"	"
Acenaphthene	U			28600	"	"	"	"	"
Dibenzofuran	U			28600	"	"	"	"	"
Fluorene	U			28600	"	"	"	"	"
Phenanthrene	U			28600	"	"	"	"	"
Anthracene	U			28600	"	"	"	"	"
Carbazole	U			28600	"	"	"	"	"

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Superfund, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Indiana Harbor Project Number: [none] Project Manager: Betty Lavis	**Reported:** Jul-28-03 12:09

Semivolatiles by GC/MS
US EPA Region 5 Central Regional Laboratory

SV1-4 (0305007-10) Soil Sampled: May-21-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Fluoranthene	**72900**			28600	ug/kg dry	1	B305027	May-27-0	Jun-11-03
Pyrene	**197000**			28600	"	"	"	"	"
Chrysene	**161000**			28600	"	"	"	"	"
Benzo (a) anthracene	**61400**			28600	"	"	"	"	"
Benzo (b) fluoranthene	**54000**			28600	"	"	"	"	"
Benzo (k) fluoranthene	**U**			28600	"	"	"	"	"
Benzo (a) pyrene	**89000**			28600	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	**U**			28600	"	"	"	"	"
Dibenz (a,h) anthracene	**U**			28600	"	"	"	"	"
Benzo (g,h,i) perylene	**43900**	J		28600	"	"	"	"	"
Surrogate: Nitrobenzene-d5	28100			*98.3 %*	*38-104*		"	"	"
Surrogate: 2-Fluorobiphenyl	27000			*94.4 %*	*52.1-104*		"	"	"
Surrogate: Terphenyl-d14	27500			*96.2 %*	*62.9-126*		"	"	"

SX67-1 (0305007-11) Soil Sampled: May-21-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Naphthalene	**U**			20100	ug/kg dry	1	B305027	May-27-0	Jun-12-03
2-Methylnaphthalene	**U**			20100	"	"	"	"	"
Acenaphthylene	**U**			20100	"	"	"	"	"
Acenaphthene	**U**			20100	"	"	"	"	"
Dibenzofuran	**U**			20100	"	"	"	"	"
Fluorene	**20400**			20100	"	"	"	"	"
Phenanthrene	**53100**			20100	"	"	"	"	"
Anthracene	**U**			20100	"	"	"	"	"
Carbazole	**U**			20100	"	"	"	"	"
Fluoranthene	**64600**			20100	"	"	"	"	"
Pyrene	**192000**			20100	"	"	"	"	"
Chrysene	**158000**			20100	"	"	"	"	"
Benzo (a) anthracene	**58300**			20100	"	"	"	"	"
Benzo (b) fluoranthene	**44500**			20100	"	"	"	"	"
Benzo (k) fluoranthene	**U**			20100	"	"	"	"	"
Benzo (a) pyrene	**76000**			20100	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	**U**			20100	"	"	"	"	"
Dibenz (a,h) anthracene	**U**			20100	"	"	"	"	"

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Superfund, US EPA Region 5	Project: Indiana Harbor	
77 West Jackson Boulevard	Project Number: [none]	**Reported:**
Chicago IL, 60604	Project Manager: Betty Lavis	Jul-28-03 12:09

Semivolatiles by GC/MS
US EPA Region 5 Central Regional Laboratory

SX67-1 (0305007-11) Soil Sampled: May-21-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Benzo (g,h,i) perylene	**36900**	J		20100	ug/kg dry	1	B305027	May-27-0	Jun-12-03
Surrogate: Nitrobenzene-d5	19300			*96.0 %*	*38-104*		"	"	"
Surrogate: 2-Fluorobiphenyl	19400			*96.5 %*	*52.1-104*		"	"	"
Surrogate: Terphenyl-d14	20600			*102 %*	*62.9-126*		"	"	"

OP367-2 (0305007-12) Soil Sampled: May-21-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Naphthalene	**U**			8790	ug/kg dry	1	B305027	May-27-0	Jun-12-03
2-Methylnaphthalene	**U**			8790	"	"	"	"	"
Acenaphthylene	**U**			8790	"	"	"	"	"
Acenaphthene	**U**			8790	"	"	"	"	"
Dibenzofuran	**U**			8790	"	"	"	"	"
Fluorene	**U**			8790	"	"	"	"	"
Phenanthrene	**U**			8790	"	"	"	"	"
Anthracene	**U**			8790	"	"	"	"	"
Carbazole	**U**			8790	"	"	"	"	"
Fluoranthene	**17900**			8790	"	"	"	"	"
Pyrene	**57500**			8790	"	"	"	"	"
Chrysene	**60200**			8790	"	"	"	"	"
Benzo (a) anthracene	**22300**			8790	"	"	"	"	"
Benzo (b) fluoranthene	**20000**			8790	"	"	"	"	"
Benzo (k) fluoranthene	**U**			8790	"	"	"	"	"
Benzo (a) pyrene	**38100**			8790	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	**U**			8790	"	"	"	"	"
Dibenz (a,h) anthracene	**U**			8790	"	"	"	"	"
Benzo (g,h,i) perylene	**14600**	J		8790	"	"	"	"	"
Surrogate: Nitrobenzene-d5	7850			*89.2 %*	*38-104*		"	"	"
Surrogate: 2-Fluorobiphenyl	8090			*91.9 %*	*52.1-104*		"	"	"
Surrogate: Terphenyl-d14	7340			*83.4 %*	*62.9-126*		"	"	"

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Superfund, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Indiana Harbor Project Number: [none] Project Manager: Betty Lavis	**Reported:** Jul-28-03 12:09

Semivolatiles by GC/MS
US EPA Region 5 Central Regional Laboratory

NM6-2 (0305007-13) Soil Sampled: May-21-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Naphthalene	U			37200	ug/kg dry	1	B305027	May-27-0	Jun-12-03
2-Methylnaphthalene	U			37200	"	"	"	"	"
Acenaphthylene	U			37200	"	"	"	"	"
Acenaphthene	U			37200	"	"	"	"	"
Dibenzofuran	U			37200	"	"	"	"	"
Fluorene	U			37200	"	"	"	"	"
Phenanthrene	U			37200	"	"	"	"	"
Anthracene	U			37200	"	"	"	"	"
Carbazole	U			37200	"	"	"	"	"
Fluoranthene	**86600**			37200	"	"	"	"	"
Pyrene	**276000**			37200	"	"	"	"	"
Chrysene	**217000**			37200	"	"	"	"	"
Benzo (a) anthracene	**93200**			37200	"	"	"	"	"
Benzo (b) fluoranthene	**53400**			37200	"	"	"	"	"
Benzo (k) fluoranthene	U			37200	"	"	"	"	"
Benzo (a) pyrene	**104000**			37200	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	U			37200	"	"	"	"	"
Dibenz (a,h) anthracene	U			37200	"	"	"	"	"
Benzo (g,h,i) perylene	**46100**	J		37200	"	"	"	"	"
Surrogate: Nitrobenzene-d5	29400			*79.0 %*	*38-104*		"	"	"
Surrogate: 2-Fluorobiphenyl	35400			*95.2 %*	*52.1-104*		"	"	"
Surrogate: Terphenyl-d14	38000			*102 %*	*62.9-126*		"	"	"

SV1-3 (0305007-14) Soil Sampled: May-21-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Naphthalene	U			33000	ug/kg dry	1	B305027	May-27-0	Jun-12-03
2-Methylnaphthalene	U			33000	"	"	"	"	"
Acenaphthylene	U			33000	"	"	"	"	"
Acenaphthene	U			33000	"	"	"	"	"
Dibenzofuran	U			33000	"	"	"	"	"
Fluorene	U			33000	"	"	"	"	"
Phenanthrene	U			33000	"	"	"	"	"
Anthracene	U			33000	"	"	"	"	"
Carbazole	U			33000	"	"	"	"	"

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Superfund, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Indiana Harbor Project Number: [none] Project Manager: Betty Lavis	**Reported:** Jul-28-03 12:09

Semivolatiles by GC/MS
US EPA Region 5 Central Regional Laboratory

SV1-3 (0305007-14) Soil Sampled: May-21-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Fluoranthene	**80400**			33000	ug/kg dry	1	B305027	May-27-0	Jun-12-03
Pyrene	**231000**			33000	"	"	"	"	"
Chrysene	**193000**			33000	"	"	"	"	"
Benzo (a) anthracene	**68600**			33000	"	"	"	"	"
Benzo (b) fluoranthene	**56200**			33000	"	"	"	"	"
Benzo (k) fluoranthene	**U**			33000	"	"	"	"	"
Benzo (a) pyrene	**95000**			33000	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	**U**			33000	"	"	"	"	"
Dibenz (a,h) anthracene	**U**			33000	"	"	"	"	"
Benzo (g,h,i) perylene	**41500**	J		33000	"	"	"	"	"
Surrogate: Nitrobenzene-d5	27900			*84.5 %*	*38-104*		"	"	"
Surrogate: 2-Fluorobiphenyl	28800			*87.3 %*	*52.1-104*		"	"	"
Surrogate: Terphenyl-d14	36100			*109 %*	*62.9-126*		"	"	"

SV1-2 (0305007-15) Soil Sampled: May-21-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Naphthalene	**U**			13300	ug/kg dry	1	B305027	May-27-0	Jun-12-03
2-Methylnaphthalene	**U**			13300	"	"	"	"	"
Acenaphthylene	**U**			13300	"	"	"	"	"
Acenaphthene	**U**			13300	"	"	"	"	"
Dibenzofuran	**U**			13300	"	"	"	"	"
Fluorene	**U**			13300	"	"	"	"	"
Phenanthrene	**U**			13300	"	"	"	"	"
Anthracene	**U**			13300	"	"	"	"	"
Carbazole	**U**			13300	"	"	"	"	"
Fluoranthene	**36600**			13300	"	"	"	"	"
Pyrene	**110000**			13300	"	"	"	"	"
Chrysene	**96500**			13300	"	"	"	"	"
Benzo (a) anthracene	**42200**			13300	"	"	"	"	"
Benzo (b) fluoranthene	**26100**			13300	"	"	"	"	"
Benzo (k) fluoranthene	**U**			13300	"	"	"	"	"
Benzo (a) pyrene	**46100**			13300	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	**U**			13300	"	"	"	"	"
Dibenz (a,h) anthracene	**U**			13300	"	"	"	"	"

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Superfund, US EPA Region 5	Project: Indiana Harbor	
77 West Jackson Boulevard	Project Number: [none]	**Reported:**
Chicago IL, 60604	Project Manager: Betty Lavis	Jul-28-03 12:09

Semivolatiles by GC/MS
US EPA Region 5 Central Regional Laboratory

SV1-2 (0305007-15) Soil Sampled: May-21-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Benzo (g,h,i) perylene	**22400**	J		13300	ug/kg dry	1	B305027	May-27-0	Jun-12-03
Surrogate: Nitrobenzene-d5	12900			*97.0 %*	*38-104*		"	"	"
Surrogate: 2-Fluorobiphenyl	13300			*100 %*	*52.1-104*		"	"	"
Surrogate: Terphenyl-d14	12600			*94.7 %*	*62.9-126*		"	"	"

SR3-4 (0305007-16) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Naphthalene	U			29300	ug/kg dry	1	B305030	May-28-0	Jun-12-03
2-Methylnaphthalene	U			29300	"	"	"	"	"
Acenaphthylene	U			29300	"	"	"	"	"
Acenaphthene	U			29300	"	"	"	"	"
Dibenzofuran	U			29300	"	"	"	"	"
Fluorene	U			29300	"	"	"	"	"
Phenanthrene	U			29300	"	"	"	"	"
Anthracene	U			29300	"	"	"	"	"
Carbazole	U			29300	"	"	"	"	"
Fluoranthene	**68000**			29300	"	"	"	"	"
Pyrene	**364000**			29300	"	"	"	"	"
Chrysene	**192000**			29300	"	"	"	"	"
Benzo (a) anthracene	**83800**			29300	"	"	"	"	"
Benzo (b) fluoranthene	**82300**			29300	"	"	"	"	"
Benzo (k) fluoranthene	U			29300	"	"	"	"	"
Benzo (a) pyrene	**143000**			29300	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	U			29300	"	"	"	"	"
Dibenz (a,h) anthracene	U			29300	"	"	"	"	"
Benzo (g,h,i) perylene	**55900**	J		29300	"	"	"	"	"
Surrogate: Nitrobenzene-d5	26900			*91.8 %*	*38-104*		"	"	"
Surrogate: 2-Fluorobiphenyl	27800			*94.9 %*	*52.1-104*		"	"	"
Surrogate: Terphenyl-d14	31300			*107 %*	*62.9-126*		"	"	"

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Superfund, US EPA Region 5	Project: Indiana Harbor	
77 West Jackson Boulevard	Project Number: [none]	**Reported:**
Chicago IL, 60604	Project Manager: Betty Lavis	Jul-28-03 12:09

Semivolatiles by GC/MS
US EPA Region 5 Central Regional Laboratory

SR1-2 (0305007-17) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Naphthalene	U			27800	ug/kg dry	1	B305030	May-28-0	Jun-12-03
2-Methylnaphthalene	U			27800	"	"	"	"	"
Acenaphthylene	U			27800	"	"	"	"	"
Acenaphthene	U			27800	"	"	"	"	"
Dibenzofuran	U			27800	"	"	"	"	"
Fluorene	U			27800	"	"	"	"	"
Phenanthrene	U			27800	"	"	"	"	"
Anthracene	U			27800	"	"	"	"	"
Carbazole	U			27800	"	"	"	"	"
Fluoranthene	U			27800	"	"	"	"	"
Pyrene	**60800**			27800	"	"	"	"	"
Chrysene	**32200**			27800	"	"	"	"	"
Benzo (a) anthracene	U			27800	"	"	"	"	"
Benzo (b) fluoranthene	U			27800	"	"	"	"	"
Benzo (k) fluoranthene	U			27800	"	"	"	"	"
Benzo (a) pyrene	U			27800	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	U			27800	"	"	"	"	"
Dibenz (a,h) anthracene	U			27800	"	"	"	"	"
Benzo (g,h,i) perylene	U			27800	"	"	"	"	"
Surrogate: Nitrobenzene-d5	24600			*88.5 %*	*38-104*		"	"	"
Surrogate: 2-Fluorobiphenyl	22600			*81.3 %*	*52.1-104*		"	"	"
Surrogate: Terphenyl-d14	24000			*86.3 %*	*62.9-126*		"	"	"

OP367-4 (0305007-18) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Naphthalene	U			9270	ug/kg dry	1	B305030	May-28-0	Jun-12-03
2-Methylnaphthalene	U			9270	"	"	"	"	"
Acenaphthylene	U			9270	"	"	"	"	"
Acenaphthene	U			9270	"	"	"	"	"
Dibenzofuran	U			9270	"	"	"	"	"
Fluorene	**16300**			9270	"	"	"	"	"
Phenanthrene	**27700**			9270	"	"	"	"	"
Anthracene	**11000**			9270	"	"	"	"	"
Carbazole	U			9270	"	"	"	"	"

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Superfund, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Indiana Harbor Project Number: [none] Project Manager: Betty Lavis	**Reported:** Jul-28-03 12:09

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OP367-4 (0305007-18) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Fluoranthene	**56700**			9270	ug/kg dry	1	B305030	May-28-0	Jun-12-03
Pyrene	**223000**			18500	"	2	"	"	Jun-12-03
Chrysene	**186000**			18500	"	"	"	"	"
Benzo (a) anthracene	**50000**			9270	"	1	"	"	Jun-12-03
Benzo (b) fluoranthene	**44900**			9270	"	"	"	"	"
Benzo (k) fluoranthene	**12400**			9270	"	"	"	"	"
Benzo (a) pyrene	**81600**			9270	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	**11800**			9270	"	"	"	"	"
Dibenz (a,h) anthracene	**10900**			9270	"	"	"	"	"
Benzo (g,h,i) perylene	**28200**			9270	"	"	"	"	"
Surrogate: Nitrobenzene-d5	7720			*83.2 %*	*38-104*		"	"	"
Surrogate: 2-Fluorobiphenyl	8440			*90.9 %*	*52.1-104*		"	"	"
Surrogate: Terphenyl-d14	11400			*123 %*	*62.9-126*		"	"	"

DN5-3 (0305007-19) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Naphthalene	**U**			11200	ug/kg dry	1	B305030	May-28-0	Jun-12-03
2-Methylnaphthalene	**11300**			11200	"	"	"	"	"
Acenaphthylene	**U**			11200	"	"	"	"	"
Acenaphthene	**U**			11200	"	"	"	"	"
Dibenzofuran	**U**			11200	"	"	"	"	"
Fluorene	**12200**			11200	"	"	"	"	"
Phenanthrene	**25000**			11200	"	"	"	"	"
Anthracene	**U**			11200	"	"	"	"	"
Carbazole	**U**			11200	"	"	"	"	"
Fluoranthene	**20500**			11200	"	"	"	"	"
Pyrene	**105000**			11200	"	"	"	"	"
Chrysene	**85900**			11200	"	"	"	"	"
Benzo (a) anthracene	**22300**			11200	"	"	"	"	"
Benzo (b) fluoranthene	**29900**			11200	"	"	"	"	"
Benzo (k) fluoranthene	**U**			11200	"	"	"	"	"
Benzo (a) pyrene	**59300**			11200	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	**U**			11200	"	"	"	"	"

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Superfund, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Indiana Harbor Project Number: [none] Project Manager: Betty Lavis	**Reported:** Jul-28-03 12:09

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DN5-3 (0305007-19) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Dibenz (a,h) anthracene	U			11200	ug/kg dry	1	B305030	May-28-0	Jun-12-03
Benzo (g,h,i) perylene	**29600**			11200	"	"	"	"	"
Surrogate: Nitrobenzene-d5	10900			*97.3 %*	*38-104*		"	"	"
Surrogate: 2-Fluorobiphenyl	9950			*88.8 %*	*52.1-104*		"	"	"
Surrogate: Terphenyl-d14	10800			*96.4 %*	*62.9-126*		"	"	"

SR5-6 (0305007-20) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Naphthalene	U			12100	ug/kg dry	1	B305030	May-28-0	Jun-12-03
2-Methylnaphthalene	U			12100	"	"	"	"	"
Acenaphthylene	U			12100	"	"	"	"	"
Acenaphthene	U			12100	"	"	"	"	"
Dibenzofuran	U			12100	"	"	"	"	"
Fluorene	U			12100	"	"	"	"	"
Phenanthrene	U			12100	"	"	"	"	"
Anthracene	U			12100	"	"	"	"	"
Carbazole	U			12100	"	"	"	"	"
Fluoranthene	**96600**			12100	"	"	"	"	"
Pyrene	**415000**			48300	"	4	"	"	Jun-12-03
Chrysene	**393000**			48300	"	"	"	"	"
Benzo (a) anthracene	**149000**			48300	"	"	"	"	"
Benzo (b) fluoranthene	**70800**			12100	"	1	"	"	Jun-12-03
Benzo (k) fluoranthene	**25000**			12100	"	"	"	"	"
Benzo (a) pyrene	**142000**			12100	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	**21900**			12100	"	"	"	"	"
Dibenz (a,h) anthracene	**20100**			12100	"	"	"	"	"
Benzo (g,h,i) perylene	**40500**			12100	"	"	"	"	"
Surrogate: Nitrobenzene-d5	12300			*102 %*	*38-104*		"	"	"
Surrogate: 2-Fluorobiphenyl	11600			*95.9 %*	*52.1-104*		"	"	"
Surrogate: Terphenyl-d14	23700			*196 %*	*62.9-126*		"	"	"

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Superfund, US EPA Region 5	Project: Indiana Harbor	
77 West Jackson Boulevard	Project Number: [none]	**Reported:**
Chicago IL, 60604	Project Manager: Betty Lavis	Jul-28-03 12:09

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SX67-5 (0305007-21) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Naphthalene	U			10700	ug/kg dry	1	B305030	May-28-0	Jun-12-03
2-Methylnaphthalene	U			10700	"	"	"	"	"
Acenaphthylene	U			10700	"	"	"	"	"
Acenaphthene	U			10700	"	"	"	"	"
Dibenzofuran	U			10700	"	"	"	"	"
Fluorene	U			10700	"	"	"	"	"
Phenanthrene	U			10700	"	"	"	"	"
Anthracene	U			10700	"	"	"	"	"
Carbazole	U			10700	"	"	"	"	"
Fluoranthene	**17100**			10700	"	"	"	"	"
Pyrene	**74900**			10700	"	"	"	"	"
Chrysene	**55300**			10700	"	"	"	"	"
Benzo (a) anthracene	**18100**			10700	"	"	"	"	"
Benzo (b) fluoranthene	**15400**			10700	"	"	"	"	"
Benzo (k) fluoranthene	U			10700	"	"	"	"	"
Benzo (a) pyrene	U			10700	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	U			10700	"	"	"	"	"
Dibenz (a,h) anthracene	U			10700	"	"	"	"	"
Benzo (g,h,i) perylene	**12100**			10700	"	"	"	"	"
Surrogate: Nitrobenzene-d5	8570			*80.1 %*	*38-104*		"	"	"
Surrogate: 2-Fluorobiphenyl	8830			*82.5 %*	*52.1-104*		"	"	"
Surrogate: Terphenyl-d14	10600			*99.1 %*	*62.9-126*		"	"	"

SV1-5 (0305007-22) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Naphthalene	U			30000	ug/kg dry	1	B305030	May-28-0	Jun-12-03
2-Methylnaphthalene	U			30000	"	"	"	"	"
Acenaphthylene	U			30000	"	"	"	"	"
Acenaphthene	U			30000	"	"	"	"	"
Dibenzofuran	U			30000	"	"	"	"	"
Fluorene	U			30000	"	"	"	"	"
Phenanthrene	U			30000	"	"	"	"	"
Anthracene	U			30000	"	"	"	"	"
Carbazole	U			30000	"	"	"	"	"

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Superfund, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Indiana Harbor Project Number: [none] Project Manager: Betty Lavis	**Reported:** Jul-28-03 12:09

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SV1-5 (0305007-22) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Fluoranthene	U			30000	ug/kg dry	1	B305030	May-28-0	Jun-12-03
Pyrene	**121000**			30000	"	"	"	"	"
Chrysene	**65300**			30000	"	"	"	"	"
Benzo (a) anthracene	U			30000	"	"	"	"	"
Benzo (b) fluoranthene	**38400**			30000	"	"	"	"	"
Benzo (k) fluoranthene	U			30000	"	"	"	"	"
Benzo (a) pyrene	U			30000	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	U			30000	"	"	"	"	"
Dibenz (a,h) anthracene	U			30000	"	"	"	"	"
Benzo (g,h,i) perylene	U			30000	"	"	"	"	"
Surrogate: Nitrobenzene-d5	28100			*93.4 %*	*38-104*		"	"	"
Surrogate: 2-Fluorobiphenyl	27300			*90.7 %*	*52.1-104*		"	"	"
Surrogate: Terphenyl-d14	33800			*112 %*	*62.9-126*		"	"	"

SRN 3-4 (0305007-23) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Naphthalene	U			24800	ug/kg dry	1	B305030	May-28-0	Jun-12-03
2-Methylnaphthalene	U			24800	"	"	"	"	"
Acenaphthylene	U			24800	"	"	"	"	"
Acenaphthene	U			24800	"	"	"	"	"
Dibenzofuran	U			24800	"	"	"	"	"
Fluorene	U			24800	"	"	"	"	"
Phenanthrene	U			24800	"	"	"	"	"
Anthracene	U			24800	"	"	"	"	"
Carbazole	U			24800	"	"	"	"	"
Fluoranthene	**111000**			24800	"	"	"	"	"
Pyrene	**378000**			24800	"	"	"	"	"
Chrysene	**309000**			24800	"	"	"	"	"
Benzo (a) anthracene	**148000**			24800	"	"	"	"	"
Benzo (b) fluoranthene	**80000**			24800	"	"	"	"	"
Benzo (k) fluoranthene	U			24800	"	"	"	"	"
Benzo (a) pyrene	**143000**			24800	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	U			24800	"	"	"	"	"
Dibenz (a,h) anthracene	U			24800	"	"	"	"	"

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Superfund, US EPA Region 5	Project: Indiana Harbor	
77 West Jackson Boulevard	Project Number: [none]	**Reported:**
Chicago IL, 60604	Project Manager: Betty Lavis	Jul-28-03 12:09

Semivolatiles by GC/MS
US EPA Region 5 Central Regional Laboratory

SRN 3-4 (0305007-23) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Benzo (g,h,i) perylene	**36600**			24800	ug/kg dry	1	B305030	May-28-0	Jun-12-03
Surrogate: Nitrobenzene-d5	20000			*80.3 %*	*38-104*		"	"	"
Surrogate: 2-Fluorobiphenyl	20600			*82.7 %*	*52.1-104*		"	"	"
Surrogate: Terphenyl-d14	22400			*90.0 %*	*62.9-126*		"	"	"

SX61-4 (0305007-24) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Naphthalene	**U**			13200	ug/kg dry	1	B305030	May-28-0	Jun-12-03
2-Methylnaphthalene	**U**			13200	"	"	"	"	"
Acenaphthylene	**U**			13200	"	"	"	"	"
Acenaphthene	**U**			13200	"	"	"	"	"
Dibenzofuran	**U**			13200	"	"	"	"	"
Fluorene	**U**			13200	"	"	"	"	"
Phenanthrene	**U**			13200	"	"	"	"	"
Anthracene	**U**			13200	"	"	"	"	"
Carbazole	**U**			13200	"	"	"	"	"
Fluoranthene	**64800**			13200	"	"	"	"	"
Pyrene	**265000**			26500	"	2	"	"	Jun-12-03
Chrysene	**181000**			13200	"	1	"	"	Jun-12-03
Benzo (a) anthracene	**71100**			13200	"	"	"	"	"
Benzo (b) fluoranthene	**54600**			13200	"	"	"	"	"
Benzo (k) fluoranthene	**U**			13200	"	"	"	"	"
Benzo (a) pyrene	**99000**			13200	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	**15400**			13200	"	"	"	"	"
Dibenz (a,h) anthracene	**13800**			13200	"	"	"	"	"
Benzo (g,h,i) perylene	**25800**			13200	"	"	"	"	"
Surrogate: Nitrobenzene-d5	10200			*76.7 %*	*38-104*		"	"	"
Surrogate: 2-Fluorobiphenyl	11700			*88.0 %*	*52.1-104*		"	"	"
Surrogate: Terphenyl-d14	18300			*138 %*	*62.9-126*		"	"	"

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Superfund, US EPA Region 5	Project: Indiana Harbor	
77 West Jackson Boulevard	Project Number: [none]	**Reported:**
Chicago IL, 60604	Project Manager: Betty Lavis	Jul-28-03 12:09

Semivolatiles by GC/MS
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DN182-4 (0305007-25) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Naphthalene	U			10300	ug/kg dry	1	B305030	May-28-0	Jun-12-03
2-Methylnaphthalene	U			10300	"	"	"	"	"
Acenaphthylene	U			10300	"	"	"	"	"
Acenaphthene	U			10300	"	"	"	"	"
Dibenzofuran	U			10300	"	"	"	"	"
Fluorene	U			10300	"	"	"	"	"
Phenanthrene	U			10300	"	"	"	"	"
Anthracene	U			10300	"	"	"	"	"
Carbazole	U			10300	"	"	"	"	"
Fluoranthene	U			10300	"	"	"	"	"
Pyrene	**52000**	K		10300	"	"	"	"	"
Chrysene	**38300**	K		10300	"	"	"	"	"
Benzo (a) anthracene	U			10300	"	"	"	"	"
Benzo (b) fluoranthene	**13900**	K		10300	"	"	"	"	"
Benzo (k) fluoranthene	U			10300	"	"	"	"	"
Benzo (a) pyrene	U			10300	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	U			10300	"	"	"	"	"
Dibenz (a,h) anthracene	U	J		10300	"	"	"	"	"
Benzo (g,h,i) perylene	U	J		10300	"	"	"	"	"
Surrogate: Nitrobenzene-d5	11300			*110 %*	*38-104*		"	"	"
Surrogate: 2-Fluorobiphenyl	11700			*114 %*	*52.1-104*		"	"	"
Surrogate: Terphenyl-d14	13700			*133 %*	*62.9-126*		"	"	"

SX67-4 (0305007-26) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Naphthalene	U			31700	ug/kg dry	1	B305030	May-28-0	Jun-12-03
2-Methylnaphthalene	U			31700	"	"	"	"	"
Acenaphthylene	U			31700	"	"	"	"	"
Acenaphthene	U			31700	"	"	"	"	"
Dibenzofuran	U			31700	"	"	"	"	"
Fluorene	U			31700	"	"	"	"	"
Phenanthrene	U			31700	"	"	"	"	"
Anthracene	U			31700	"	"	"	"	"
Carbazole	U			31700	"	"	"	"	"

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Superfund, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Indiana Harbor Project Number: [none] Project Manager: Betty Lavis	**Reported:** Jul-28-03 12:09

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SX67-4 (0305007-26) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Fluoranthene	**69400**			31700	ug/kg dry	1	B305030	May-28-0	Jun-12-03
Pyrene	**213000**			31700	"	"	"	"	"
Chrysene	**170000**			31700	"	"	"	"	"
Benzo (a) anthracene	**68200**			31700	"	"	"	"	"
Benzo (b) fluoranthene	**46500**			31700	"	"	"	"	"
Benzo (k) fluoranthene	**U**			31700	"	"	"	"	"
Benzo (a) pyrene	**77600**			31700	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	**U**	J		31700	"	"	"	"	"
Dibenz (a,h) anthracene	**U**	J		31700	"	"	"	"	"
Benzo (g,h,i) perylene	**32000**	J		31700	"	"	"	"	"
Surrogate: Nitrobenzene-d5	27000			*85.2 %*	*38-104*		"	"	"
Surrogate: 2-Fluorobiphenyl	28800			*90.9 %*	*52.1-104*		"	"	"
Surrogate: Terphenyl-d14	28700			*90.5 %*	*62.9-126*		"	"	"

OP367-3 (0305007-27) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Naphthalene	**U**			9590	ug/kg dry	1	B305030	May-28-0	Jun-12-03
2-Methylnaphthalene	**U**			9590	"	"	"	"	"
Acenaphthylene	**U**			9590	"	"	"	"	"
Acenaphthene	**U**			9590	"	"	"	"	"
Dibenzofuran	**U**			9590	"	"	"	"	"
Fluorene	**U**			9590	"	"	"	"	"
Phenanthrene	**U**			9590	"	"	"	"	"
Anthracene	**U**			9590	"	"	"	"	"
Carbazole	**U**			9590	"	"	"	"	"
Fluoranthene	**16900**			9590	"	"	"	"	"
Pyrene	**83000**			9590	"	"	"	"	"
Chrysene	**64700**			9590	"	"	"	"	"
Benzo (a) anthracene	**23000**			9590	"	"	"	"	"
Benzo (b) fluoranthene	**19800**			9590	"	"	"	"	"
Benzo (k) fluoranthene	**U**			9590	"	"	"	"	"
Benzo (a) pyrene	**36800**			9590	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	**U**	J		9590	"	"	"	"	"
Dibenz (a,h) anthracene	**U**	J		9590	"	"	"	"	"

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Superfund, US EPA Region 5	Project: Indiana Harbor	
77 West Jackson Boulevard	Project Number: [none]	**Reported:**
Chicago IL, 60604	Project Manager: Betty Lavis	Jul-28-03 12:09

Semivolatiles by GC/MS
US EPA Region 5 Central Regional Laboratory

OP367-3 (0305007-27) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Benzo (g,h,i) perylene	**12200**	J		9590	ug/kg dry	1	B305030	May-28-0	Jun-12-03
Surrogate: Nitrobenzene-d5	8140			*84.8 %*	*38-104*		"	"	"
Surrogate: 2-Fluorobiphenyl	9460			*98.5 %*	*52.1-104*		"	"	"
Surrogate: Terphenyl-d14	10200			*106 %*	*62.9-126*		"	"	"

SX61-6 (0305007-28) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Naphthalene	**U**			28200	ug/kg dry	1	B305030	May-28-0	Jun-12-03
2-Methylnaphthalene	**U**			28200	"	"	"	"	"
Acenaphthylene	**U**			28200	"	"	"	"	"
Acenaphthene	**U**			28200	"	"	"	"	"
Dibenzofuran	**U**			28200	"	"	"	"	"
Fluorene	**U**			28200	"	"	"	"	"
Phenanthrene	**U**			28200	"	"	"	"	"
Anthracene	**U**			28200	"	"	"	"	"
Carbazole	**U**			28200	"	"	"	"	"
Fluoranthene	**52400**			28200	"	"	"	"	"
Pyrene	**170000**			28200	"	"	"	"	"
Chrysene	**127000**			28200	"	"	"	"	"
Benzo (a) anthracene	**46000**			28200	"	"	"	"	"
Benzo (b) fluoranthene	**39900**			28200	"	"	"	"	"
Benzo (k) fluoranthene	**U**			28200	"	"	"	"	"
Benzo (a) pyrene	**63500**			28200	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	**U**	J		28200	"	"	"	"	"
Dibenz (a,h) anthracene	**U**	J		28200	"	"	"	"	"
Benzo (g,h,i) perylene	**U**	J		28200	"	"	"	"	"
Surrogate: Nitrobenzene-d5	23700			*84.0 %*	*38-104*		"	"	"
Surrogate: 2-Fluorobiphenyl	25900			*91.8 %*	*52.1-104*		"	"	"
Surrogate: Terphenyl-d14	25900			*91.8 %*	*62.9-126*		"	"	"

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Superfund, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Indiana Harbor Project Number: [none] Project Manager: Betty Lavis	**Reported:** Jul-28-03 12:09

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PHRAGMITES (0305007-29) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Naphthalene	U			28600	ug/kg dry	1	B305030	May-28-0	Jun-12-03
2-Methylnaphthalene	U			28600	"	"	"	"	"
Acenaphthylene	U			28600	"	"	"	"	"
Acenaphthene	U			28600	"	"	"	"	"
Dibenzofuran	U			28600	"	"	"	"	"
Fluorene	U			28600	"	"	"	"	"
Phenanthrene	U			28600	"	"	"	"	"
Anthracene	U			28600	"	"	"	"	"
Carbazole	U			28600	"	"	"	"	"
Fluoranthene	U			28600	"	"	"	"	"
Pyrene	**99400**			28600	"	"	"	"	"
Chrysene	**77800**			28600	"	"	"	"	"
Benzo (a) anthracene	U			28600	"	"	"	"	"
Benzo (b) fluoranthene	U			28600	"	"	"	"	"
Benzo (k) fluoranthene	U			28600	"	"	"	"	"
Benzo (a) pyrene	U			28600	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	U	J		28600	"	"	"	"	"
Dibenz (a,h) anthracene	U	J		28600	"	"	"	"	"
Benzo (g,h,i) perylene	U	J		28600	"	"	"	"	"
Surrogate: Nitrobenzene-d5	23400			*81.8 %*	*38-104*		"	"	"
Surrogate: 2-Fluorobiphenyl	24300			*85.0 %*	*52.1-104*		"	"	"
Surrogate: Terphenyl-d14	34600			*121 %*	*62.9-126*		"	"	"

SV1-6 (0305007-30) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Naphthalene	U			22800	ug/kg dry	1	B305030	May-28-0	Jun-13-03
2-Methylnaphthalene	U			22800	"	"	"	"	"
Acenaphthylene	U			22800	"	"	"	"	"
Acenaphthene	U			22800	"	"	"	"	"
Dibenzofuran	U			22800	"	"	"	"	"
Fluorene	U			22800	"	"	"	"	"
Phenanthrene	U			22800	"	"	"	"	"
Anthracene	U			22800	"	"	"	"	"
Carbazole	U			22800	"	"	"	"	"

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Superfund, US EPA Region 5	Project: Indiana Harbor	
77 West Jackson Boulevard	Project Number: [none]	**Reported:**
Chicago IL, 60604	Project Manager: Betty Lavis	Jul-28-03 12:09

Semivolatiles by GC/MS
US EPA Region 5 Central Regional Laboratory

SV1-6 (0305007-30) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Fluoranthene	**36000**			22800	ug/kg dry	1	B305030	May-28-0	Jun-13-03
Pyrene	**139000**			22800	"	"	"	"	"
Chrysene	**96200**			22800	"	"	"	"	"
Benzo (a) anthracene	**34500**			22800	"	"	"	"	"
Benzo (b) fluoranthene	**28300**			22800	"	"	"	"	"
Benzo (k) fluoranthene	**U**			22800	"	"	"	"	"
Benzo (a) pyrene	**44400**			22800	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	**U**	J		22800	"	"	"	"	"
Dibenz (a,h) anthracene	**U**	J		22800	"	"	"	"	"
Benzo (g,h,i) perylene	**U**	J		22800	"	"	"	"	"
Surrogate: Nitrobenzene-d5	19700			*86.0 %*	*38-104*		"	"	"
Surrogate: 2-Fluorobiphenyl	20000			*87.3 %*	*52.1-104*		"	"	"
Surrogate: Terphenyl-d14	22400			*97.8 %*	*62.9-126*		"	"	"

DN182-3 (0305007-31) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Naphthalene	**U**			29600	ug/kg dry	1	B305030	May-28-0	Jun-13-03
2-Methylnaphthalene	**U**			29600	"	"	"	"	"
Acenaphthylene	**U**			29600	"	"	"	"	"
Acenaphthene	**U**			29600	"	"	"	"	"
Dibenzofuran	**U**			29600	"	"	"	"	"
Fluorene	**U**			29600	"	"	"	"	"
Phenanthrene	**U**			29600	"	"	"	"	"
Anthracene	**U**			29600	"	"	"	"	"
Carbazole	**U**			29600	"	"	"	"	"
Fluoranthene	**85600**			29600	"	"	"	"	"
Pyrene	**238000**			29600	"	"	"	"	"
Chrysene	**217000**			29600	"	"	"	"	"
Benzo (a) anthracene	**89600**			29600	"	"	"	"	"
Benzo (b) fluoranthene	**43400**			29600	"	"	"	"	"
Benzo (k) fluoranthene	**U**			29600	"	"	"	"	"
Benzo (a) pyrene	**88000**			29600	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	**U**	J		29600	"	"	"	"	"
Dibenz (a,h) anthracene	**U**	J		29600	"	"	"	"	"

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Superfund, US EPA Region 5	Project: Indiana Harbor	
77 West Jackson Boulevard	Project Number: [none]	**Reported:**
Chicago IL, 60604	Project Manager: Betty Lavis	Jul-28-03 12:09

Semivolatiles by GC/MS
US EPA Region 5 Central Regional Laboratory

DN182-3 (0305007-31) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Benzo (g,h,i) perylene	U	J		29600	ug/kg dry	1	B305030	May-28-0	Jun-13-03
Surrogate: Nitrobenzene-d5	25100			*84.8 %*	*38-104*		"	"	"
Surrogate: 2-Fluorobiphenyl	27500			*92.9 %*	*52.1-104*		"	"	"
Surrogate: Terphenyl-d14	24100			*81.4 %*	*62.9-126*		"	"	"

SRN1-2 (0305007-32) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Naphthalene	U			27100	ug/kg dry	1	B305030	May-28-0	Jun-13-03
2-Methylnaphthalene	U			27100	"	"	"	"	"
Acenaphthylene	U			27100	"	"	"	"	"
Acenaphthene	U			27100	"	"	"	"	"
Dibenzofuran	U			27100	"	"	"	"	"
Fluorene	U			27100	"	"	"	"	"
Phenanthrene	U			27100	"	"	"	"	"
Anthracene	U			27100	"	"	"	"	"
Carbazole	U			27100	"	"	"	"	"
Fluoranthene	**27900**			27100	"	"	"	"	"
Pyrene	**102000**			27100	"	"	"	"	"
Chrysene	**62000**			27100	"	"	"	"	"
Benzo (a) anthracene	U			27100	"	"	"	"	"
Benzo (b) fluoranthene	**29600**			27100	"	"	"	"	"
Benzo (k) fluoranthene	U			27100	"	"	"	"	"
Benzo (a) pyrene	**36600**			27100	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	U	J		27100	"	"	"	"	"
Dibenz (a,h) anthracene	U	J		27100	"	"	"	"	"
Benzo (g,h,i) perylene	U	J		27100	"	"	"	"	"
Surrogate: Nitrobenzene-d5	21900			*80.8 %*	*38-104*		"	"	"
Surrogate: 2-Fluorobiphenyl	24000			*88.6 %*	*52.1-104*		"	"	"
Surrogate: Terphenyl-d14	20100			*74.2 %*	*62.9-126*		"	"	"

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Superfund, US EPA Region 5	Project: Indiana Harbor	
77 West Jackson Boulevard	Project Number: [none]	**Reported:**
Chicago IL, 60604	Project Manager: Betty Lavis	Jul-28-03 12:09

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SRN5-6 (0305007-33) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Naphthalene	U			8640	ug/kg dry	1	B305030	May-28-0	Jun-13-03
2-Methylnaphthalene	U			8640	"	"	"	"	"
Acenaphthylene	U			8640	"	"	"	"	"
Acenaphthene	U			8640	"	"	"	"	"
Dibenzofuran	U			8640	"	"	"	"	"
Fluorene	U			8640	"	"	"	"	"
Phenanthrene	U			8640	"	"	"	"	"
Anthracene	U			8640	"	"	"	"	"
Carbazole	U			8640	"	"	"	"	"
Fluoranthene	**19600**			8640	"	"	"	"	"
Pyrene	**55100**			8640	"	"	"	"	"
Chrysene	**57000**			8640	"	"	"	"	"
Benzo (a) anthracene	**25300**			8640	"	"	"	"	"
Benzo (b) fluoranthene	**14000**			8640	"	"	"	"	"
Benzo (k) fluoranthene	U			8640	"	"	"	"	"
Benzo (a) pyrene	**27700**			8640	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	U	J		8640	"	"	"	"	"
Dibenz (a,h) anthracene	U	J		8640	"	"	"	"	"
Benzo (g,h,i) perylene	**10000**	J		8640	"	"	"	"	"
Surrogate: Nitrobenzene-d5	7680			*88.8 %*	*38-104*		"	"	"
Surrogate: 2-Fluorobiphenyl	8420			*97.3 %*	*52.1-104*		"	"	"
Surrogate: Terphenyl-d14	6400			*74.0 %*	*62.9-126*		"	"	"

SX61-5 (0305007-34) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Naphthalene	U			15300	ug/kg dry	1	B306001	Jun-04-03	Jun-13-03
2-Methylnaphthalene	U			15300	"	"	"	"	"
Acenaphthylene	U			15300	"	"	"	"	"
Acenaphthene	U			15300	"	"	"	"	"
Dibenzofuran	U			15300	"	"	"	"	"
Fluorene	U			15300	"	"	"	"	"
Phenanthrene	U			15300	"	"	"	"	"
Anthracene	U			15300	"	"	"	"	"
Carbazole	U			15300	"	"	"	"	"

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Superfund, US EPA Region 5	Project: Indiana Harbor	
77 West Jackson Boulevard	Project Number: [none]	**Reported:**
Chicago IL, 60604	Project Manager: Betty Lavis	Jul-28-03 12:09

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US EPA Region 5 Central Regional Laboratory

SX61-5 (0305007-34) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Fluoranthene	**16400**			15300	ug/kg dry	1	B306001	Jun-04-03	Jun-13-03
Pyrene	**93600**			15300	"	"	"	"	"
Chrysene	**72500**			15300	"	"	"	"	"
Benzo (a) anthracene	**17400**			15300	"	"	"	"	"
Benzo (b) fluoranthene	**20200**			15300	"	"	"	"	"
Benzo (k) fluoranthene	**U**			15300	"	"	"	"	"
Benzo (a) pyrene	**U**			15300	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	**U**			15300	"	"	"	"	"
Dibenz (a,h) anthracene	**U**	J		15300	"	"	"	"	"
Benzo (g,h,i) perylene	**21600**	J		15300	"	"	"	"	"
Surrogate: Nitrobenzene-d5	22400			*73.0 %*	*38-104*		"	"	"
Surrogate: 2-Fluorobiphenyl	23100			*75.2 %*	*52.1-104*		"	"	"
Surrogate: Terphenyl-d14	28100			*91.5 %*	*62.9-126*		"	"	"

NM6-3 (0305007-35) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Naphthalene	**U**	*		3130	ug/kg dry	1	B306001	Jun-04-03	Jun-13-03
2-Methylnaphthalene	**U**	*		3130	"	"	"	"	"
Acenaphthylene	**U**	*		3130	"	"	"	"	"
Acenaphthene	**U**	*		3130	"	"	"	"	"
Dibenzofuran	**U**	*		3130	"	"	"	"	"
Fluorene	**U**	*		3130	"	"	"	"	"
Phenanthrene	**3400**	K		3130	"	"	"	"	"
Anthracene	**U**	*		3130	"	"	"	"	"
Carbazole	**U**	*		3130	"	"	"	"	"
Fluoranthene	**U**	*		3130	"	"	"	"	"
Pyrene	**U**	*		3130	"	"	"	"	"
Chrysene	**U**	*		3130	"	"	"	"	"
Benzo (a) anthracene	**U**	*		3130	"	"	"	"	"
Benzo (b) fluoranthene	**U**	*		3130	"	"	"	"	"
Benzo (k) fluoranthene	**U**	*		3130	"	"	"	"	"
Benzo (a) pyrene	**U**	*		3130	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	**U**	*		3130	"	"	"	"	"
Dibenz (a,h) anthracene	**U**	J		3130	"	"	"	"	"

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Superfund, US EPA Region 5	Project: Indiana Harbor	
77 West Jackson Boulevard	Project Number: [none]	**Reported:**
Chicago IL, 60604	Project Manager: Betty Lavis	Jul-28-03 12:09

Semivolatiles by GC/MS
US EPA Region 5 Central Regional Laboratory

NM6-3 (0305007-35) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Benzo (g,h,i) perylene	**U**	J		3130	ug/kg dry	1	B306001	Jun-04-03	Jun-13-03
Surrogate: Nitrobenzene-d5	3670			*58.6 %*	*38-104*		"	"	"
Surrogate: 2-Fluorobiphenyl	3740			*59.7 %*	*52.1-104*		"	"	"
Surrogate: Terphenyl-d14	3990			*63.7 %*	*62.9-126*		"	"	"

SX67-6 (0305007-36) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Naphthalene	**U**			14000	ug/kg dry	1	B306001	Jun-04-03	Jun-13-03
2-Methylnaphthalene	**U**			14000	"	"	"	"	"
Acenaphthylene	**U**			14000	"	"	"	"	"
Acenaphthene	**U**			14000	"	"	"	"	"
Dibenzofuran	**U**			14000	"	"	"	"	"
Fluorene	**15900**			14000	"	"	"	"	"
Phenanthrene	**17700**			14000	"	"	"	"	"
Anthracene	**U**			14000	"	"	"	"	"
Carbazole	**U**			14000	"	"	"	"	"
Fluoranthene	**49100**			14000	"	"	"	"	"
Pyrene	**140000**			14000	"	"	"	"	"
Chrysene	**126000**			14000	"	"	"	"	"
Benzo (a) anthracene	**49800**			14000	"	"	"	"	"
Benzo (b) fluoranthene	**27300**			14000	"	"	"	"	"
Benzo (k) fluoranthene	**U**			14000	"	"	"	"	"
Benzo (a) pyrene	**56200**			14000	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	**U**			14000	"	"	"	"	"
Dibenz (a,h) anthracene	**U**	J		14000	"	"	"	"	"
Benzo (g,h,i) perylene	**25900**	J		14000	"	"	"	"	"
Surrogate: Nitrobenzene-d5	21800			*78.1 %*	*38-104*		"	"	"
Surrogate: 2-Fluorobiphenyl	25000			*89.6 %*	*52.1-104*		"	"	"
Surrogate: Terphenyl-d14	19400			*69.5 %*	*62.9-126*		"	"	"

7/28/03

Babu Paruchuri, Group Leader

Environmental Protection Agency Region 5
Central Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Indiana Harbor Project Number: [none] Project Manager: Betty Lavis	**Reported:** Jul-28-03 12:09

Semivolatiles by GC/MS
US EPA Region 5 Central Regional Laboratory

DN5-4 (0305007-37) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08
Qualifiers: J

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Naphthalene	U			5650	ug/kg dry	1	B306014	Jun-12-03	Jul-01-03
2-Methylnaphthalene	U			5650	"	"	"	"	"
Acenaphthylene	U			5650	"	"	"	"	"
Acenaphthene	U			5650	"	"	"	"	"
Dibenzofuran	U			5650	"	"	"	"	"
Fluorene	U			5650	"	"	"	"	"
Phenanthrene	U			5650	"	"	"	"	"
Anthracene	U			5650	"	"	"	"	"
Carbazole	U			5650	"	"	"	"	"
Fluoranthene	U			5650	"	"	"	"	"
Pyrene	**6340**			5650	"	"	"	"	"
Chrysene	U			5650	"	"	"	"	"
Benzo (a) anthracene	U			5650	"	"	"	"	"
Benzo (b) fluoranthene	U			5650	"	"	"	"	"
Benzo (k) fluoranthene	U			5650	"	"	"	"	"
Benzo (a) pyrene	U			5650	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	U			5650	"	"	"	"	"
Dibenz (a,h) anthracene	U			5650	"	"	"	"	"
Benzo (g,h,i) perylene	U			5650	"	"	"	"	"
Surrogate: Nitrobenzene-d5	5680			*50.3 %*	*38-104*		"	"	"
Surrogate: 2-Fluorobiphenyl	6910			*61.2 %*	*52.1-104*		"	"	"
Surrogate: Terphenyl-d14	9390			*83.1 %*	*62.9-126*		"	"	"

DN5-1 (0305007-38) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Naphthalene	U			10500	ug/kg dry	1	B305027	May-27-0	Jun-13-03
2-Methylnaphthalene	U			10500	"	"	"	"	"
Acenaphthylene	U			10500	"	"	"	"	"
Acenaphthene	U			10500	"	"	"	"	"
Dibenzofuran	U			10500	"	"	"	"	"
Fluorene	U			10500	"	"	"	"	"
Phenanthrene	U			10500	"	"	"	"	"
Anthracene	U			10500	"	"	"	"	"
Carbazole	U			10500	"	"	"	"	"

Babu P 7/28/03
Babu Paruchuri, Group Leader

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Superfund, US EPA Region 5	Project: Indiana Harbor	
77 West Jackson Boulevard	Project Number: [none]	**Reported:**
Chicago IL, 60604	Project Manager: Betty Lavis	Jul-28-03 12:09

Semivolatiles by GC/MS
US EPA Region 5 Central Regional Laboratory

DN5-1 (0305007-38) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Fluoranthene	**43600**			10500	ug/kg dry	1	B305027	May-27-0	Jun-13-03
Pyrene	**128000**			10500	"	"	"	"	"
Chrysene	**115000**			10500	"	"	"	"	"
Benzo (a) anthracene	**46100**			10500	"	"	"	"	"
Benzo (b) fluoranthene	**28900**			10500	"	"	"	"	"
Benzo (k) fluoranthene	**U**			10500	"	"	"	"	"
Benzo (a) pyrene	**53900**			10500	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	**U**	J		10500	"	"	"	"	"
Dibenz (a,h) anthracene	**U**	J		10500	"	"	"	"	"
Benzo (g,h,i) perylene	**23700**	J		10500	"	"	"	"	"
Surrogate: Nitrobenzene-d5	8250			*78.6 %*	*38-104*		"	"	"
Surrogate: 2-Fluorobiphenyl	9360			*89.1 %*	*52.1-104*		"	"	"
Surrogate: Terphenyl-d14	7380			*70.3 %*	*62.9-126*		"	"	"

NM6-1 (0305007-39) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Naphthalene	**U**			11400	ug/kg dry	1	B305027	May-27-0	Jun-13-03
2-Methylnaphthalene	**U**			11400	"	"	"	"	"
Acenaphthylene	**U**			11400	"	"	"	"	"
Acenaphthene	**U**			11400	"	"	"	"	"
Dibenzofuran	**U**			11400	"	"	"	"	"
Fluorene	**U**			11400	"	"	"	"	"
Phenanthrene	**U**			11400	"	"	"	"	"
Anthracene	**U**			11400	"	"	"	"	"
Carbazole	**U**			11400	"	"	"	"	"
Fluoranthene	**22100**			11400	"	"	"	"	"
Pyrene	**64300**			11400	"	"	"	"	"
Chrysene	**60200**			11400	"	"	"	"	"
Benzo (a) anthracene	**24900**			11400	"	"	"	"	"
Benzo (b) fluoranthene	**16200**			11400	"	"	"	"	"
Benzo (k) fluoranthene	**U**			11400	"	"	"	"	"
Benzo (a) pyrene	**U**			11400	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	**U**	J		11400	"	"	"	"	"
Dibenz (a,h) anthracene	**U**	J		11400	"	"	"	"	"

Babu Paruchuri 7/28/03
Babu Paruchuri, Group Leader

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Superfund, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Indiana Harbor Project Number: [none] Project Manager: Betty Lavis	**Reported:** Jul-28-03 12:09

Semivolatiles by GC/MS
US EPA Region 5 Central Regional Laboratory

NM6-1 (0305007-39) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Benzo (g,h,i) perylene	**14000**	J		11400	ug/kg dry	1	B305027	May-27-0	Jun-13-03
Surrogate: Nitrobenzene-d5	10600			*93.0 %*	*38-104*		"	"	"
Surrogate: 2-Fluorobiphenyl	9280			*81.4 %*	*52.1-104*		"	"	"
Surrogate: Terphenyl-d14	14700			*129 %*	*62.9-126*		"	"	"

SX61-2 (0305007-40) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Naphthalene	U			11400	ug/kg dry	1	B305027	May-27-0	Jun-13-03
2-Methylnaphthalene	U			11400	"	"	"	"	"
Acenaphthylene	U			11400	"	"	"	"	"
Acenaphthene	U			11400	"	"	"	"	"
Dibenzofuran	U			11400	"	"	"	"	"
Fluorene	U			11400	"	"	"	"	"
Phenanthrene	U			11400	"	"	"	"	"
Anthracene	U			11400	"	"	"	"	"
Carbazole	U			11400	"	"	"	"	"
Fluoranthene	U			11400	"	"	"	"	"
Pyrene	**13400**			11400	"	"	"	"	"
Chrysene	U			11400	"	"	"	"	"
Benzo (a) anthracene	U			11400	"	"	"	"	"
Benzo (b) fluoranthene	U			11400	"	"	"	"	"
Benzo (k) fluoranthene	U			11400	"	"	"	"	"
Benzo (a) pyrene	U			11400	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	U			11400	"	"	"	"	"
Dibenz (a,h) anthracene	U	J		11400	"	"	"	"	"
Benzo (g,h,i) perylene	U	J		11400	"	"	"	"	"
Surrogate: Nitrobenzene-d5	9520			*83.5 %*	*38-104*		"	"	"
Surrogate: 2-Fluorobiphenyl	9400			*82.5 %*	*52.1-104*		"	"	"
Surrogate: Terphenyl-d14	12500			*110 %*	*62.9-126*		"	"	"

Babu P 7/28/03
Babu Paruchuri, Group Leader

Environmental Protection Agency Region 5
Central Regional Laboratory

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Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Indiana Harbor Project Number: [none] Project Manager: Betty Lavis	**Reported:** Jul-28-03 12:09

Notes and Definitions

*	This Quality Control measure meets the requirements of the CRL SOP for this analyte.
J	The identification of the analyte is acceptable; the reported value is an estimate.
K	The identification of the analyte is acceptable; the reported value may be biased high. The actual value is expected to be less than the reported value.
U	Not Detected
NR	Not Reported

Babu Paruchuri 7/28/03
Babu Paruchuri, Group Leader

Items for Project Manager Review

LabNumber	Analysis	Analyte	Exception
			This is a modified report
0305007-04	SVOA - PAHs	Terphenyl-d14	Exceeds lower control limit
0305007-05	SVOA - PAHs	Terphenyl-d14	Exceeds lower control limit
0305007-08	SVOA - PAHs	Nitrobenzene-d5	Exceeds upper control limit
0305007-20	SVOA - PAHs	Terphenyl-d14	Exceeds upper control limit
0305007-24	SVOA - PAHs	Terphenyl-d14	Exceeds upper control limit
0305007-25	SVOA - PAHs	2-Fluorobiphenyl	Exceeds upper control limit
0305007-25	SVOA - PAHs	Nitrobenzene-d5	Exceeds upper control limit
0305007-25	SVOA - PAHs	Terphenyl-d14	Exceeds upper control limit
0305007-25	SVOA - PAHs	Benzo (b) fluoranthene	K
0305007-25	SVOA - PAHs	Chrysene	K
0305007-25	SVOA - PAHs	Pyrene	K
0305007-35	SVOA - PAHs	Acenaphthylene	*
0305007-35	SVOA - PAHs	Phenanthrene	K
0305007-35	SVOA - PAHs	Acenaphthene	*
0305007-35	SVOA - PAHs	Chrysene	*
0305007-35	SVOA - PAHs	Pyrene	*
0305007-35	SVOA - PAHs	Naphthalene	*
0305007-35	SVOA - PAHs	Indeno (1,2,3-cd) pyrene	*
0305007-35	SVOA - PAHs	Fluorene	*
0305007-35	SVOA - PAHs	2-Methylnaphthalene	*
0305007-35	SVOA - PAHs	Dibenzofuran	*
0305007-35	SVOA - PAHs	Carbazole	*
0305007-35	SVOA - PAHs	Benzo (k) fluoranthene	*
0305007-35	SVOA - PAHs	Benzo (b) fluoranthene	*
0305007-35	SVOA - PAHs	Benzo (a) pyrene	*
0305007-35	SVOA - PAHs	Benzo (a) anthracene	*
0305007-35	SVOA - PAHs	Anthracene	*
0305007-35	SVOA - PAHs	Fluoranthene	*
0305007-37	SVOA - PAHs		Sampled->Prepared > 14.00 days
0305007-39	SVOA - PAHs	Terphenyl-d14	Exceeds upper control limit

* = SEE PAGE 33 of 33.

Barbara P
7/28/03

Sample, Log and Extraction Comments

0305007-01
SVOA - PAHs
0-12

0305007-02
SVOA - PAHs
0-12

0305007-03
SVOA - PAHs
0-12

0305007-04
SVOA - PAHs
0-12

0305007-05
SVOA - PAHs
0-12

0305007-06
SVOA - PAHs
0-12

0305007-07
SVOA - PAHs
0-12

0305007-08
SVOA - PAHs
0-12

0305007-09
SVOA - PAHs
0-12

0305007-10
SVOA - PAHs
0-12

0305007-11
SVOA - PAHs
0-12

0305007-12
SVOA - PAHs
0-12

0305007-13
SVOA - PAHs
0-12

0305007-14
SVOA - PAHs
0-12

0305007-15
SVOA - PAHs
0-12

0305007-16
SVOA - PAHs
0-12

0305007-17
SVOA - PAHs
0-12

0305007-18
SVOA - PAHs
0-12

0305007-19
SVOA - PAHs

0-12

0305007-20
SVOA - PAHs

0-12

0305007-21
SVOA - PAHs

0-12

0305007-22
SVOA - PAHs

0-12

0305007-23
SVOA - PAHs

0-12

0305007-24
SVOA - PAHs

0-12

0305007-25
SVOA - PAHs

0-12

0305007-26
SVOA - PAHs

0-12

0305007-27
SVOA - PAHs

0-12

0305007-28
SVOA - PAHs

0-12

0305007-29
SVOA - PAHs

0-12

0305007-30
SVOA - PAHs

0-12

0305007-31
SVOA - PAHs

0-12

0305007-32
SVOA - PAHs

0-12

0305007-33
SVOA - PAHs

0-12

0305007-34
SVOA - PAHs

0-12

0305007-35
SVOA - PAHs

0-12

0305007-36
SVOA - PAHs

0-12

0305007-37
SVOA - PAHs

0-12

0305007-38
SVOA - PAHs

0-12

SVOA - PAHs

0-12

0305007-40
SVOA - PAHs

0-12

OK/GCS
07/28/03

CASE NARRATIVE

DATE: July 28, 2003

PROJECT NAME: Indiana Harbor - CRL W.O. # 0305007 Analysis of Polynuclear Aromatic Hydrocarbons (PAHs) by GC/MS

PRIMARY ANALYST: Babu Paruchuri, Chemist

PEER REVIEWER: Larry Zintek, Chemist

I. CASE DESCRIPTION:

The laboratory extracted and analyzed, within sample extraction hold times except sample 0305007-37, the site samples for PAHs and generated data of acceptable quality as per the CRL QA/QC requirements.

II. METHOD QUALITY CONTROL:

1. Initial and Continuing Calibration:

The lab did not meet calibration QC requirements for the following methods for compounds listed in parenthesis: 1C611261.M [(benzo(g,h,i)perylene)], 1C612261.M [(indeno-(1,2,3-cd)pyrene, dibenz(a,h)-anthracene and benzo(g,h,i)-perylene] and 1C612262.M [dibenz(a,h)anthracene and benzo-(g,h,i)perylene.] Therefore, the affected compound data were qualified estimated, 'UJ' for non-detects and 'J' otherwise.

2. Surrogate Spike Compound Results:

Surrogate spike compound recoveries were biased low in sample # 0305007-35MS and high in # 0305007-25. Therefore, the affected compound data for sample 0305007-25 were qualified estimated, 'K' (biased high) for detects. See sec. II.4 for sample # 0305007-35 data qualification.

3. Laboratory Control Sample (LCS):

Soil method accuracy data was acceptable for all of the target compounds. Therefore, no data qualification was needed. The lab used the LCS sample recovery data to assess the site sample # 0305007-40 data quality since the field sample was diluted significantly.

The lab does not qualify site data solely based on lab precision measurements. It uses the precision data for informational purposes only.

4. **Matrix Spike and Matrix Spike Duplicate Samples (MS/MSD):**

The lab conducted site specific precision and accuracy studies by spiking and analyzing field samples # 0305007-25, 0305007-35, and 0305007-40. Accuracy data for # 0305007-25 and 0305007-35 were biased high. Therefore, the affected compound data were qualified estimated, 'K' (biased high) for detects. As mentioned above, site sample 0305007-40 data quality was assessed based on spike recoveries of the LCS sample QC results (Sec. II.2).

IV. SAMPLE RESULTS:

The laboratory generated data of acceptable quality as per the CRL QA/QC requirements except field sample 0305007-37.

XV. CHECKLIST FOR SVOA AND VOA DATA PACKAGES

CRL Method #: GCMS026 **CRL Sample Batch Number** WO # 0305007

Site Name: Indiana Harbor **ESAT TDF Number** _____
(For ESAT Data Packages)

Analyst/Date **(QC1):** Babu Paruchuri 7/21/03 BP
Peer Reviewer/Date **(QC2):** Roger Rudinski LZ 7/28/03
Other Reviewers/Date **(QC3):** _____
(QC4): _____

NOTE: Please check Y for YES, NA for Not Applicable and X for NO. If X, please provide your comments in the comments section.

		Approvals QC1	QC2	QC3	QC4
I.	**SAMPLE QC**				
	Surrogate Recoveries - CRL Form 2 or equivalent				
1.	Are surrogate recoveries acceptable? If not, data qualified?	Y	Y		
2.	Are reported concentrations, & percent recovery data in agreement with the quantitation reports and QC forms?	Y	Y		
	MS/MSD or LCS/LCSD - CRL Form 3 or equivalent				
1.	Are MS/MSD and LCS recoveries acceptable? If not, data qualified?	Y	Y		
2.	Are reported concentrations, & percent recoveries in agreement with the quantitation reports?	Y	Y		
	Method Blank Summary - CRL Form 4 or equivalent				
1.	Is the Method Blank Summary header correct?	Y	Y		
2.	Are the associated samples properly listed?	Y	Y		
	Tune Check - CRL Form 5 or equivalent				
1.	Does BFB/DFTPP meet the SOP criterion? Is the report accurate?	Y	Y		
2.	Are the associated samples properly listed?	Y	Y		
3.	Are all samples analyzed within 12 (24 for APEs) hour clock?	Y	Y		
	Initial Calibration - IC - CRL Form 6 or equivalent				
1.	Does the IC QC meet the SOP criteria?	Y	Y		
2.	Calculate both a RSD and a RRF. Is it accurate?	Y	Y		
	Continuing Calibration - CC - CRL Form 7 or equivalent				
1.	Does the CC QC meet the SOP criteria?	Y	Y		
2.	Calculate a %D. Is the %D accurate?	Y	Y		
	Internal Standards - IS – CRL Form 8 or equivalent				
1.	Did the samples meet IS QC area requirements? If not, are the sample data properly qualified?	Y	Y		
2.	Did the samples meet IS QC time requirements? If not, are the sample data properly qualified?	Y	Y		

XIII. CHECKLIST FOR SVOA AND VOA DATA PACKAGES (Cont'd)

		Approvals QC1	QC2	QC3	QC4
II.	**QUANTITATION REPORTS - STANDARDS**				
1.	Are the calibration standard data quantitated with the correct IC/CC? (Note: Use IC for APEs and CC for ABNs)	_Y	Y	___	___
III.	**QUANTITATION REPORTS and TCL & TIC RESULTS of All SAMPLES (CRL Form 1 or equivalent)**				
1.	Are draft LIMS reports present for all field samples, LCS/LCS DUP, MS/MSD and blanks, if applicable?	_Y	Y	___	___
2.	Are reported results (Form 1or equivalent) for detects and non-detects accurate?	_Y	Y	___	___
3.	Did mass spectral data support all reported TCL and TIC data? (Need PAH data only– No TIC data of oils)	_Y	Y	___	___
4.	Are the following LIMS data qualifiers used, when needed: J, K, L, MI, N, NJ, R and U?	_Y_	Y	___	___
5.	Are final LIMS reports present in duplicate for all field samples and lab blanks? (Note: CRL keeps original FINAL copy and client gets the NO QC pckg).	_Y_	Y	___	___
6.	Are final LIMS reports and complete data packages present in duplicate for enforcement cases?	_Y_	Y	___	___
IV.	**MANUAL INTEGRATION AUDIT (See CRL SOP # GEN014 for details)**				
1.	Did the reviewers perform manual integration audits?	_Y	Y	___	___
2.	Are extended reports submitted showing all manual integrations before and after the manual integrations ?	_Y	Y	___	___
V.	**MISCELLANEOUS**				
1.	Are the following documents submitted with the data package, <u>when available</u>: sample analysis request sheets/COC forms, sample tags, sequence files identifying sample data files used for reporting, completed sample prep/clean-up sheets, and data not used?	_Y_	Y	___	___
2.	Are the following documents filed in proper binders: GC/MS autotune reports, daily manual tune or mass axis calibration reports, BFB/DFTPP tune reports, calibration reports (Forms 6/7 or equivalent), sample sequences, and list of data files archived to the R5CRL?	_Y_	Y	___	___
VI.	**CASE NARRATIVE**				
1.	Is the case narrative accurate? Are QC outliers explained?	_Y_	Y	___	___

Please make sure the following changes to the case narrative are made:

1. No longer include sample identifications or instrument designations; these are documented in the raw data and LIMS reports.

2. Include the # of samples done, the work order number(s) and the name of the survey. Do not include the name of any other survey in the narrative. If you need to refer to another group of samples use the work order number.

3. Type the path for data storage. Include the path in a note to the file or on the review checklist. Hand printed paths are very difficult to read, please do not write them.

4. Make a positive statement that the holding times were met. State if there were any exceptions.

5. Discuss the preparation steps only if there are options. If the preparation is part of the SOP no discussion is necessary. List any cleanup procedures used if these are optional. If cleanup is a standard part of the method, no discussion is needed.

6. Comment on quality excursions by quality control type with headers stating the control type. All headers will not be present every time. If there are no exceptions, remove that header. State the impact of the excursions on the data. If several QC types have problems, state the overall impact on the data at the end after discussing the parts. Include a general statement that all quality control not specifically discussed in the narrative met quality criteria stated in the SOP.

VII. DATA CUSTODY AND TIME TRACKING
(For ESAT Data Packages Only)

1. Are the data set custody transfer and time tracking sheet present and accurate? ___ ___ ___ ___

VIII. COMMENTS

This is not an enforcement case. Therefore, the client gets NO QC data package (results only.)

R5CRL Data Path:_\\R5CRL\VOL1\EPA-GCMS\bparuchu\2003\GCMS1\.....

Analyst: Baby Paruchuri Date: 07/21/2003

"All concerns with this data package documented by the reviewer have been resolved to the satisfaction of the reviewer. The reviewer, by signing, verifies that this package is complete and supports the reported results in accordance with the CRL Quality Management Plan and applicable standard operating procedures (SOPs).

Data Package approved for release: Yes No (Circle) Date 7/28/2003

Returned for correction of deficiencies: Yes No (Circle) Date

7/17/2003

Indiana Harbor 0305007

EXAMPLES

CRL LIMS #	%S	Weight (in gms)	Final Vol. (in mL)	Pyrene (in PPB)	Rpt Limit (in PPB)	Pyrene Concn (in PPB)	DATA FILE # (x.D)		Clent's SAM #	
0305007-01	74.5	4.01	20	20.24	33473	135500	1C060219.d			
0305007-02	79.8	5.25	20	36.97	23869	176489	1C060220.d			
0305007-03	84.1	4.67	20	27.91	25462	142127	1C060221.d			
0305007-04	78.3	15.5	20	45.98	8240	75771	1C060222.d			
0305007-05	78.6	14.6	20	32.06	8714	55875	1C060223.d			
0305007-06	79.1	7.81	20	52.31	16187	169351	1C060224.d			
0305007-07	85	13.6	20	27.16	8651	46990	1C060225.d			
0305007-08	79.7	4.07	20	39.1	30828	241076	1C061107.d			
0305007-09	85.2	13.7	20	43.26	8567	74124	1C061108.d			
0305007-10	82.7	4.22	20	34.45	28654	197425	1C061109.d			
0305007-11	86.1	5.78	20	47.8	20094	192100	1C061110.d			
0305007-12	86.8	13.1	20	32.69	8794	57498	1C061111.d			
0305007-13	58.9	4.56	20	37.14	37232	276562	1C061112.d			
0305007-14	70.9	4.27	20	34.95	33031	230889	1C061113.d			
0305007-15	78.9	9.51	20	41.09	13327	109524	1C061114.d			
0305007-16	84.9	4.02	20	62.04	29300	363553	1C061115.d			
0305007-17	85.2	4.22	20	10.93	27813	60799	1C061118.d			
0305007-18	89.8	12	20	**120.3**	9280	223274	1C061119.d	60.15*2		
0305007-19	89	10	20	46.82	11236	105213	1C061120.d			
0305007-20	84.7	9.77	20	171.8	12084	415217	1C061121.d	42.95*4		
0305007-21	78.6	11.9	20	35.03	10691	74903	1C061122.d			
0305007-22	78.1	4.26	20	20.1	30057	120827	1C061123.d			
0305007-23	79.2	5.08	20	76.07	24855	378142	1C061124.d			
0305007-24	83.2	9.07	20	99.96	13252	264927	1C061125.d	49.98*2		
0305007-25	85	11.4	20	25.19	10320	51992	1C061203.d			
0305007-26	78.8	4	20	33.55	31726	212881	1C061206.d			
0305007-27	86.1	12.1	20	43.22	9599	82971	1C061207.d			
0305007-28	85.4	4.15	20	30.08	28216	169747	1C061208.d			
0305007-29	79.3	4.4	20	17.36	28660	99507	1C061209.d			
0305007-30	86.1	5.08	20	30.44	22863	139190	1C061210.d			
0305007-31	79	4.28	20	40.19	29575	237726	1C061211.d			
0305007-32	82.6	4.46	20	18.7	27145	101521	1C061212.d			
0305007-33	84.4	13.7	20	31.84	8648	55073	1C061213.d			
0305007-34	79.7	4.09	10	30.52	15339	93627	1C061218.d			
0305007-35	90.7	17.6	10	**5.43**	3132	3402	1C061219.d	phenanthrene		
0305007-36	83.6	4.28	10	50.21	13974	140327	1C061222.d			
0305007-37	87.6	10.1	10	5.61	5651	6341	1C063036.d			
0305007-38	88	10.8	20	60.99	10522	128346	1C061214.d			
0305007-39	82.6	10.6	20	28.14	11421	64279	1C061215.d			
0305007-40	78.8	11.1	20	5.84	11433	13353	1C061216.d			
B305027-BLK1	100	30	2	0	333	0	1C060207.d			
B305027-BS1	100	30	2	43.46	333	2897	1C060208.d		Pyrene in	
B305027-BSD1	100	30	2	44.61	333	2974	1C060209.d		NativeSam	
B305027-MS1	78.8	10.4	20	-0.46	12202	13130	1C061224.d	**007-40**	5.84	5.38
B305027-MSD1	78.8	10.1	20	-0.5	12565	13419	1C063019.d		5.84	5.34
B305030-BLK1	100	30	2	0	333	0	1C061103.d			
B305030-BS1	100	30	2	44.63	333	2975	1C061104.d			
B305030-BSD1	100	30	2	48.38	333	3225	1C061105.d			
B305030-MS1	85	11.7	20	10.14	10055	71051	1C061204.D	**007-25**	25.19	**35.33**
B305030-MSD1	85	11.7	20	8.49	10055	67733	1C061205.D		25.19	**33.68**
B306001-BLK1	100	30	2	0	333	0	1C063020.D			
B306001-BS1	100	30	2	45.79	333	3053	1C063023.D			
B306001-BSD1	100	30	2	44.75	333	2983	1C063022.D			
B306001-MS1	90.7	16.9	10	6.5	3262	4241	1C061220.D	**007-35**	0	
B306001-MSD1	90.7	17	10	13.13	3243	8515	1C061221.D		0	
B306014-BLK1	100	30	2	0	333	0	1C063020.D			
B306014-BS1	100	30	2	41.85	333	2790	1C063023.D			
B306014-BSD1	100	30	2	42.5	333	2833	1C063022.D			

BP 7/22/03

oc file

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Columbus Bridge Contract: ML-10C

Lab Code: USEPA-R5 Case No.: 0304017 SAS No.: GCMS SDG No.: SF

Lab File ID: 1C050801.D DFTPP Injection Date: 5/8/03

Instrument ID: DFTPP Injection Time: 14:41

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	33.0
68	Less than 2.0% of mass 69	0.2 (0.5)1
69	Mass 69 Relative abundance	39.5
70	Less than 2.0% of mass 69	0.2 (0.6)1
127	25.0 - 75.0% of mass 198	51.7
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.0
275	10.0 - 30.0% of mass 198	24.3
365	Greater than 0.75% of mass 198	2.5
441	Present, but less than mass 443	9.0
442	40.0 - 110.0% of mass 198	59.0
443	15.0 - 24.0% of mass 442	11.9 (20.2)2

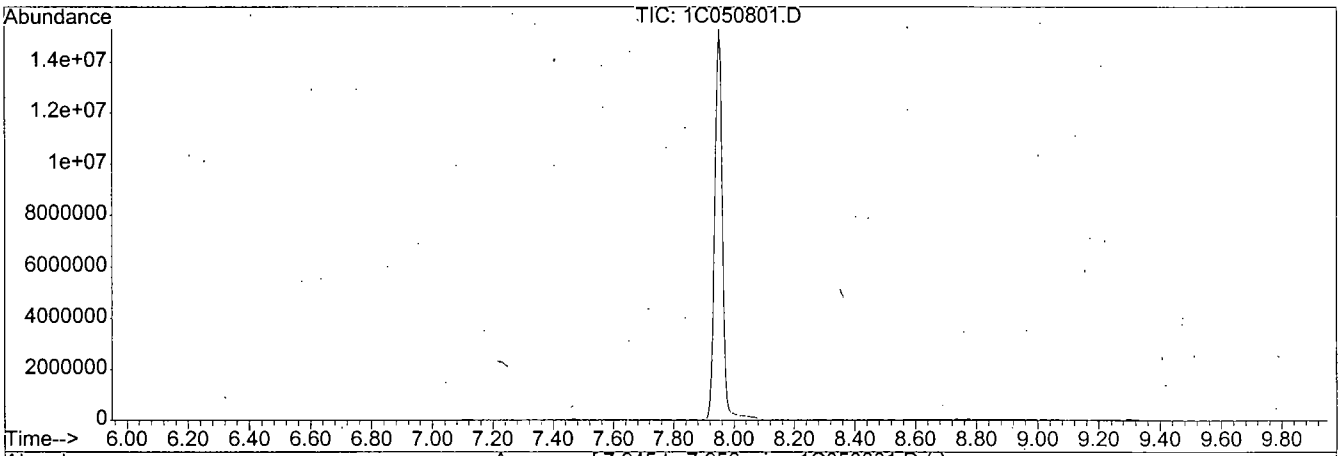
1-Value is % mass 69 2-Value is % mass 442

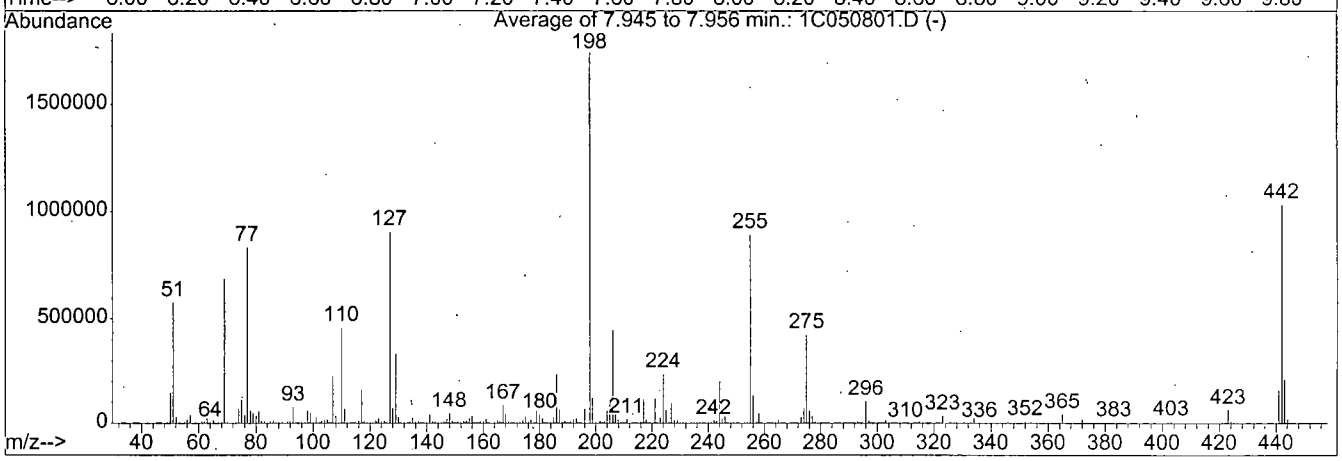
THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD0508CC	CC 25 PPM STD	1C050802.D	5/8/03	15:00
02	SSTD100PPM	ABN 100 PPM STD	1C050803.D	5/8/03	15:47
03	SSTD50PPM	ABN 50 PPM STD	1C050804.D	5/8/03	16:34
04	SSTD10PPM	ABN 10 PPM STD	1C050805.D	5/8/03	17:21
05	SSTD05 PPM	ABN 5 PPM STD	1C050806.D	5/8/03	18:08

DFTPP for METHOD 625SAS

Data File : D:\BPARUCHU\DATA\1C050803\1C050801.D Vial: 1
Acq On : 8 May 2003 2:41 pm Operator: BP
Sample : DFTPP 50 ng Inst : GCMS1
Misc : CRL QA - WP PE Multiplr: 1.00
MS Integration Params: rteint.p
Method : D:\BPARUCHU\METHODS\1C602261.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002





Spectrum Information: Average of 7.945 to 7.956 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	80	33.0	576478	PASS
68	69	0.00	2	0.5	3526	PASS
69	198	0.01	100	39.5	689874	PASS
70	69	0.00	2	0.6	4062	PASS
127	198	25	75	51.7	904512	PASS
197	198	0.00	1	0.0	0	PASS
198	198	90	100	100.0	1747968	PASS
199	198	5	9	7.0	122067	PASS
275	198	10	30	24.3	424853	PASS
365	198	0.75	100	2.5	42907	PASS
441	443	0.01	100	75.7	157867	PASS
442	198	40	110	59.0	1031147	PASS
443	442	15	24	20.2	208640	PASS

1C050801.D 1C602261.M Thu Jun 19 10:48:00 2003 TEST

Response Factor Report GCMS1

Method : D:\BPARUCHU\METHODS\1C508261.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002
Last Update : Fri May 09 11:45:52 2003
Response via : Continuing Calibration

Calibration Files
1 =1C050803.D 2 =1C050804.D 3 =1C050802.D
4 =1C050805.D 5 =1C050806.D

		Compound	1	2	3	4	5	Avg	%RSD
1)	I	1,4-Dichlorobenzene-d	----------ISTD----------						
2)	M	2-Picoline	0.506	0.423	0.692	0.379	0.000	0.400	63.38
3)	M	N-Nitrosomethylethyla	0.355	0.387	0.408	0.450	0.427	0.406	9.00
4)	M	Methyl methanesulfona	0.292	0.336	0.333	0.383	0.310	0.331	10.34
5)	S	2-Fluorophenol	0.625	0.715	0.697	0.738	0.636	0.682	7.27
6)	M	N-Nitrosodiethylamine	0.355	0.415	0.403	0.458	0.431	0.412	9.23
7)	M	Ethyl methanesulfonat	0.525	0.578	0.597	0.692	0.643	0.607	10.48
8)	M	Aniline	0.762	0.751	0.475	1.769	1.844	1.120	56.94
9)	M	Pentachloroethane	0.235	0.288	0.311	0.341	0.326	0.300	13.74
10)	S	Phenol-d5	0.770	0.892	0.975	0.925	0.910	0.894	8.50
11)	M	Phenol	0.896	1.024	1.092	1.132	1.113	1.051	9.15
12)	M	Bis(2-chloroethyl)eth	0.704	0.824	1.063	0.878	0.946	0.883	15.15
13)	M	2-Chlorophenol	0.752	0.808	0.823	0.904	0.879	0.833	7.21
14)	M	1,3-Dichlorobenzene	0.754	0.849	0.897	0.991	0.985	0.895	11.06
15)	M	1,4-Dichlorobenzene	0.712	0.853	0.910	1.022	1.024	0.904	14.39
16)	M	1,2-Dichlorobenzene	0.663	0.832	0.856	0.955	0.929	0.847	13.52
17)	M	Benzyl alcohol	0.481	0.577	0.546	0.483	0.358	0.489	17.20
18)	M	bis(2-Chloroisopropyl	0.255	0.283	0.300	0.322	0.317	0.295	9.20
19)	M	2-Methylphenol	0.637	0.668	0.702	0.826	0.791	0.725	11.13
20)	M	Acetophenone	0.955	1.082	1.116	1.172	1.173	1.100	8.16
21)	M	o-Toluidine	0.613	0.614	1.250	0.889	1.056	0.884	31.48
22)	M	Hexachloroethane	0.217	0.308	0.316	0.339	0.311	0.298	15.79
23)	M	N-Nitroso-di-n-propyl	0.436	0.630	0.644	0.629	0.634	0.594	14.93
24)	M	3-&/or 4-Methylphenol	0.818	1.032	0.970	0.933	0.904	0.932	8.52
25)	I	Naphthalene-d8	----------ISTD----------						
26)	S	Nitrobenzene-d5	0.366	0.393	0.392	0.384	0.380	0.383	2.86
27)	M	Nitrobenzene	0.195	0.214	0.204	0.218	0.212	0.209	4.51
28)	M	N-Nitrosopiperidine	0.180	0.188	0.191	0.200	0.195	0.191	3.76
29)	M	Isophorone	0.628	0.729	0.758	0.784	0.787	0.737	8.85
30)	M	2-Nitrophenol	0.216	0.222	0.222	0.232	0.218	0.222	2.83
31)	M	2,4-Dimethylphenol	0.355	0.380	0.390	0.406	0.389	0.384	4.90
32)	M	o,o,o-Triethylphospho	0.186	0.203	0.207	0.208	0.198	0.200	4.36
33)	M	Bis(2-chloroethoxy)me	0.527	0.399	0.416	0.473	0.482	0.459	11.31
34)	M	2,4-Dichlorophenol	0.273	0.324	0.314	0.330	0.308	0.310	7.19
35)	M	1,2,4-Trichlorobenzen	0.299	0.340	0.330	0.365	0.350	0.337	7.30
36)	M	Naphthalene	0.781	0.986	1.066	1.228	1.244	1.061	17.97
37)	M	Hexachloropropene	0.183	0.222	0.228	0.242	0.221	0.219	9.98
38)	M	4-Choroaniline	0.300	0.404	0.423	0.341	0.341	0.362	14.02
39)	M	Hexachlorobutadiene	0.160	0.183	0.190	0.210	0.199	0.188	9.98
40)	M	N-Nitrosodi-n-butylam	0.251	0.262	0.268	0.269	0.254	0.261	3.19
41)	M	4-Chloro-3-methylphen	0.301	0.319	0.331	0.331	0.293	0.315	5.54
42)	M	Safrole	0.277	0.299	0.300	0.327	0.308	0.302	5.92

(#) = Out of Range

Response Factor Report GCMS1

Method : D:\BPARUCHU\METHODS\1C508261.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002
Last Update : Fri May 09 11:45:52 2003
Response via : Continuing Calibration

Calibration Files
1 =1C050803.D 2 =1C050804.D 3 =1C050802.D
4 =1C050805.D 5 =1C050806.D

		Compound	1	2	3	4	5	Avg	%RSD
43)	M	2-Methylnaphthalene	0.607	0.698	0.740	0.814	0.801	0.732	11.50
44)	I	Acenaphthene-d10	----------ISTD----------						
45)	M	Hexachlorocyclopentad	0.306	0.328	0.317	0.290	0.267	0.301	7.93
46)	M	1,2,4,5-Tetrachlorobe	0.446	0.507	0.511	0.526	0.543	0.507	7.23
47)	M	2,4,6-Trichlorophenol	0.343	0.359	0.347	0.322	0.336	0.341	3.95
48)	M	2,4,5-Trichlorophenol	0.363	0.388	0.374	0.337	0.349	0.362	5.62
49)	S	2-Fluorobiphenyl	0.991	1.138	1.177	1.169	1.272	1.149	8.86
50)	M	Isosafrole	0.465	0.489	0.462	0.444	0.487	0.469	3.96
51)	M	2-Chloronaphthalene	0.926	1.048	1.062	1.105	1.105	1.049	7.01
52)	M	2-Nitroaniline	0.408	0.414	0.404	0.377	0.373	0.395	4.71
53)	M	1,4-Naphthoquinone	0.300	0.320	0.323	0.298	0.292	0.306	4.51
54)	M	Dimethylphthalate	1.184	1.223	1.238	1.250	1.345	1.248	4.79
55)	M	2,6-Dinitrotoluene	0.283	0.317	0.311	0.309	0.320	0.308	4.73
56)	M	1,3-Dinitrobenzene	0.242	0.247	0.241	0.237	0.232	0.240	2.49
57)	M	Acenaphthylene	1.400	1.657	1.750	1.839	1.956	1.720	12.24
58)	M	3-Nitroaniline	0.331	0.320	0.296	0.288	0.311	0.309	5.65
59)	M	Acenaphthene	0.951	1.066	1.100	1.151	1.230	1.100	9.39
60)	M	2,4-Dinitrophenol	0.206	0.201	0.193	0.139	0.095	0.167	28.93
61)	M	Pentachlorobenzene	0.424	0.467	0.460	0.465	0.522	0.468	7.53
62)	M	Dibenzofuran	1.238	1.442	1.523	1.665	1.751	1.524	13.11
63)	M	2,4-Dinitrotoluene	0.387	0.423	0.405	0.417	0.418	0.410	3.55
64)	M	4-Nitrophenol	0.179	0.174	0.180	0.128	0.106	0.153	22.30
65)	M	Diethylphthalate	1.205	1.259	1.283	1.323	1.383	1.291	5.18
66)	M	Fluorene	1.066	1.227	1.282	1.343	1.423	1.268	10.61
67)	M	4-Chlorophenylphenyl	0.526	0.612	0.622	0.643	0.698	0.620	10.01
68)	M	Thionazin	0.284	0.290	0.298	0.281	0.285	0.288	2.38
69)	M	5-Nitro-o-toluidine	0.340	0.356	0.372	0.358	0.382	0.362	4.53
70)	M	4-Nitroaniline	0.289	0.291	0.289	0.272	0.267	0.282	3.93
71)	I	Phenanthrene-d10	----------ISTD----------						
72)	M	2-Methyl-4,6-dinitrop	0.165	0.183	0.173	0.155	0.146	0.164	9.09
73)	M	Diphenylamine	0.605	0.701	0.715	0.745	0.790	0.711	9.63
74)	M	Azobenzene	0.804	0.819	0.868	0.899	0.897	0.858	5.16
75)	S	2,4,6-Tribromophenol	0.096	0.106	0.101	0.087	0.104	0.099	7.79
76)	M	Sulfotep	0.123	0.142	0.141	0.131	0.158	0.139	9.45
77)	M	Phorate	0.062	0.069	0.069	0.062	0.075	0.067	7.95
78)	M	Diallate	0.237	0.288	0.295	0.286	0.290	0.279	8.49
79)	M	4-Bromophenyl phenyl	0.194	0.208	0.216	0.231	0.257	0.221	10.95
80)	M	Alpha-BHC	0.140	0.154	0.155	0.146	0.162	0.151	5.64
81)	M	Phenacetin	0.254	0.275	0.248	0.246	0.249	0.255	4.66
82)	M	1,3,5-Trinitrobenzene	0.101	0.110	0.107	0.100	0.094	0.102	5.89
83)	M	Hexachlorobenzene	0.196	0.235	0.238	0.233	0.270	0.234	11.25
84)	M	Dimethoate	0.278	0.316	0.350	0.324	0.334	0.320	8.34

(#) = Out of Range

Response Factor Report GCMS1

Method : D:\BPARUCHU\METHODS\1C508261.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002
Last Update : Fri May 09 11:45:52 2003
Response via : Continuing Calibration

Calibration Files
1 =1C050803.D 2 =1C050804.D 3 =1C050802.D
4 =1C050805.D 5 =1C050806.D

		Compound	1	2	3	4	5	Avg	%RSD
85)	M	Beta-BHC	0.115	0.136	0.128	0.120	0.124	0.124	6.46
86)	M	Pentachloronitrobenze	0.034	0.041	0.042	0.042	0.047	0.041	11.22
87)	M	4-Aminobiphenyl	0.531	0.518	0.527	0.435	0.537	0.510	8.25
88)	M	Pentachlorophenol	0.123	0.147	0.153	0.116	0.108	0.129	15.20
89)	M	Delta-BHC	0.119	0.131	0.130	0.119	0.137	0.127	6.09
90)	M	Pronamide	0.341	0.370	0.365	0.378	0.388	0.368	4.77
91)	M	Phenanthrene	0.860	1.029	1.108	1.209	1.311	1.103	15.63
92)	M	Dinoseb	0.198	0.233	0.236	0.214	0.199	0.216	8.24
93)	M	Disulfoton	0.461	0.553	0.556	0.572	0.561	0.541	8.33
94)	M	Anthracene	0.910	1.088	1.152	1.235	1.345	1.146	14.25
95)	M	Gamma-BHC	0.117	0.124	0.126	0.112	0.129	0.122	5.59
96)	M	Carbazole	0.887	1.052	1.116	1.077	1.172	1.061	10.09
97)	M	Methyl Parathion	0.142	0.166	0.176	0.154	0.175	0.163	9.07
98)	M	Heptachlor	0.091	0.104	0.106	0.093	0.110	0.101	8.34
99)	M	Di-n-butylphthalate	0.916	1.162	1.302	1.418	1.491	1.258	18.12
100)	M	Aldrin	0.083	0.091	0.096	0.089	0.107	0.093	9.47
101)	M	Ethyl Parathion	0.116	0.127	0.138	0.124	0.146	0.130	9.16
102)	M	Isodrin	0.125	0.136	0.136	0.131	0.144	0.134	5.08
103)	M	Heptachlor Epoxide	0.055	0.062	0.063	0.058	0.073	0.062	11.26
104)	M	Fluoranthene	0.937	1.161	1.234	1.294	1.453	1.216	15.56
105)	I	Chrysene-d12	----------ISTD----------						
106)	M	Pyrene	1.058	1.192	1.209	1.334	1.398	1.238	10.70
107)	M	p,p'-DDE	0.269	0.266	0.256	0.244	0.273	0.262	4.36
108)	S	Terphenyl-d14	0.729	0.821	0.833	0.848	0.957	0.838	9.73
109)	M	Dieldrin	0.218	0.217	0.216	0.203	0.206	0.212	3.24
110)	M	p-Dimethylaminoazoben	0.296	0.302	0.290	0.289	0.300	0.295	1.97
111)	M	Chlorobenzilate	0.381	0.384	0.388	0.397	0.423	0.394	4.29
112)	M	Endrin	0.045	0.046	0.048	0.044	0.050	0.047	5.58
113)	M	p,p'-DDD	0.426	0.434	0.450	0.446	0.486	0.449	5.17
114)	M	Endrin Aldehyde	0.004	0.004	0.004	0.004	0.004	0.004	7.97
115)	M	Famphur	0.020	0.031	0.111	0.196	0.350	0.141	96.39
116)	M	Butylbenzylphthalate	0.561	0.602	0.614	0.631	0.644	0.610	5.25
117)	M	Endosulfan Sulfate	0.378	0.384	0.388	0.357	0.384	0.378	3.34
118)	M	2-Acetylaminofluorene	0.530	0.544	0.562	0.531	0.539	0.541	2.37
119)	M	Endrin Ketone	0.605	0.701	0.704	0.667	0.716	0.679	6.65
120)	M	Methoxychlor	0.605	0.701	0.704	0.667	0.716	0.679	6.65
121)	M	Benz(a)anthracene	1.058	1.183	1.218	1.268	1.340	1.213	8.64
122)	M	3,3'-Dichlorobenzidin	0.214	0.254	0.305	0.321	0.389	0.296	22.52
123)	M	Bis(2-ethylhexyl)phth	0.649	0.799	0.864	0.916	0.929	0.831	13.75
124)	M	Chrysene	0.803	0.939	1.057	1.190	1.278	1.053	18.10
125)	I	Perylene-d12	----------ISTD----------						
126)	M	Di-n-octylphthalate	1.259	1.589	1.771	1.983	1.958	1.712	17.47

(#) = Out of Range

Response Factor Report GCMS1

Method : D:\BPARUCHU\METHODS\1C508261.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002
Last Update : Fri May 09 11:45:52 2003
Response via : Continuing Calibration

Calibration Files
1 =1C050803.D 2 =1C050804.D 3 =1C050802.D
4 =1C050805.D 5 =1C050806.D

		Compound	1	2	3	4	5	Avg	%RSD
127)	M	7,12-Dimethylbenz(a)a	0.672	0.729	0.695	0.700	0.720	0.703	3.18
128)	M	Benzo[b]fluoranthene	1.523	1.544	1.639	1.612	1.813	1.626	7.06
129)	M	Benzo(k)fluoranthene	0.916	1.317	1.252	1.495	1.589	1.314	19.80
130)	M	Benzo(a)pyrene	1.263	1.388	1.415	1.440	1.508	1.403	6.43
131)	M	3-Methylcholanthrene	0.751	0.813	0.811	0.786	0.850	0.802	4.54
132)	M	Indeno[1,2,3,cd]pyren	1.684	1.785	1.710	1.658	1.782	1.724	3.34
133)	M	Dibenz(a,h)anthracene	1.363	1.461	1.436	1.386	1.515	1.432	4.21
134)	M	Benzo(g,h,i)perylene	1.412	1.518	1.437	1.312	1.430	1.422	5.17

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\BPARUCHU\DATA\1C050803\1C050802.D Vial: 2
Acq On : 8 May 2003 3:00 pm Operator: BP
Sample : CC 25 ppm std Inst : GCMS1
Misc : CRL QA - WP PE Multiplr: 1.00
MS Integration Params: rteint.p

Method : D:\BPARUCHU\METHODS\1C508261.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002
Last Update : Fri May 09 11:45:52 2003
Response via : Single Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
2	M	2-Picoline	0.400	0.692	-73.0#	100	0.00
3	M	N-Nitrosomethylethylamine	0.406	0.408	-0.5	100	0.00
4	M	Methyl methanesulfonate	0.331	0.333	-0.6	100	0.00
5	S	2-Fluorophenol	0.682	0.697	-2.2	100	0.00
6	M	N-Nitrosodiethylamine	0.412	0.403	2.2	100	0.00
7	M	Ethyl methanesulfonate	0.607	0.597	1.6	100	0.00
8	M	Aniline	1.120	0.475	57.6#	100	0.00
9	M	Pentachloroethane	0.300	0.311	-3.7	100	0.00
10	S	Phenol-d5	0.894	0.975	-9.1	100	0.00
11	M	Phenol	1.051	1.092	-3.9	100	0.00
12	M	Bis(2-chloroethyl)ether	0.883	1.063	-20.4	100	0.00
13	M	2-Chlorophenol	0.833	0.823	1.2	100	0.00
14	M	1,3-Dichlorobenzene	0.895	0.897	-0.2	100	0.00
15	M	1,4-Dichlorobenzene	0.904	0.910	-0.7	100	0.00
16	M	1,2-Dichlorobenzene	0.847	0.856	-1.1	100	0.00
17	M	Benzyl alcohol	0.489	0.546	-11.7	100	0.00
18	M	bis(2-Chloroisopropyl)ether	0.295	0.300	-1.7	100	0.00
19	M	2-Methylphenol	0.725	0.702	3.2	100	0.00
20	M	Acetophenone	1.100	1.116	-1.5	100	0.00
21	M	o-Toluidine	0.884	1.250	-41.4#	100	0.00
22	M	Hexachloroethane	0.298	0.316	-6.0	100	0.00
23	M	N-Nitroso-di-n-propylamine	0.594	0.644	-8.4	100	0.00
24	M	3-&/or 4-Methylphenol	0.932	0.970	-4.1	100	0.00
25	I	Naphthalene-d8	1.000	1.000	0.0	100	0.00
26	S	Nitrobenzene-d5	0.383	0.392	-2.3	100	0.00
27	M	Nitrobenzene	0.209	0.204	2.4	100	0.00
28	M	N-Nitrosopiperidine	0.191	0.191	0.0	100	0.00
29	M	Isophorone	0.737	0.758	-2.8	100	0.00
30	M	2-Nitrophenol	0.222	0.222	0.0	100	0.00
31	M	2,4-Dimethylphenol	0.384	0.390	-1.6	100	0.00
32	M	o,o,o-Triethylphosphorothio	0.200	0.207	-3.5	100	0.00
33	M	Bis(2-chloroethoxy)methane	0.459	0.416	9.4	100	0.00
34	M	2,4-Dichlorophenol	0.310	0.314	-1.3	100	0.00
35	M	1,2,4-Trichlorobenzene	0.337	0.330	2.1	100	0.00
36	M	Naphthalene	1.061	1.066	-0.5	100	0.00
37	M	Hexachloropropene	0.219	0.228	-4.1	100	0.00
38	M	4-Choroaniline	0.362	0.423	-16.9	100	0.00
39	M	Hexachlorobutadiene	0.188	0.190	-1.1	100	0.00
40	M	N-Nitrosodi-n-butylamine	0.261	0.268	-2.7	100	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\BPARUCHU\DATA\1C050803\1C050802.D Vial: 2
Acq On : 8 May 2003 3:00 pm Operator: BP
Sample : CC 25 ppm std Inst : GCMS1
Misc : CRL QA - WP PE Multiplr: 1.00
MS Integration Params: rteint.p

Method : D:\BPARUCHU\METHODS\1C508261.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002
Last Update : Fri May 09 11:45:52 2003
Response via : Single Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
41	M	4-Chloro-3-methylphenol	0.315	0.331	-5.1	100	0.00
42	M	Safrole	0.302	0.300	0.7	100	0.00
43	M	2-Methylnaphthalene	0.732	0.740	-1.1	100	0.00
44	I	Acenaphthene-d10	1.000	1.000	0.0	100	0.00
45	M	Hexachlorocyclopentadiene	0.301	0.317	-5.3	100	0.00
46	M	1,2,4,5-Tetrachlorobenzene	0.507	0.511	-0.8	100	0.00
47	M	2,4,6-Trichlorophenol	0.341	0.347	-1.8	100	0.00
48	M	2,4,5-Trichlorophenol	0.362	0.374	-3.3	100	0.00
49	S	2-Fluorobiphenyl	1.149	1.177	-2.4	100	0.00
50	M	Isosafrole	0.469	0.462	1.5	100	0.00
51	M	2-Chloronaphthalene	1.049	1.062	-1.2	100	0.00
52	M	2-Nitroaniline	0.395	0.404	-2.3	100	0.00
53	M	1,4-Naphthoquinone	0.306	0.323	-5.6	100	0.00
54	M	Dimethylphthalate	1.248	1.238	0.8	100	0.00
55	M	2,6-Dinitrotoluene	0.308	0.311	-1.0	100	0.00
56	M	1,3-Dinitrobenzene	0.240	0.241	-0.4	100	0.00
57	M	Acenaphthylene	1.720	1.750	-1.7	100	0.00
58	M	3-Nitroaniline	0.309	0.296	4.2	100	0.00
59	M	Acenaphthene	1.100	1.100	0.0	100	0.00
60	M	2,4-Dinitrophenol	0.167	0.193	-15.6	100	0.00
61	M	Pentachlorobenzene	0.468	0.460	1.7	100	0.00
62	M	Dibenzofuran	1.524	1.523	0.1	100	0.00
63	M	2,4-Dinitrotoluene	0.410	0.405	1.2	100	0.00
64	M	4-Nitrophenol	0.153	0.180	-17.6	100	0.00
65	M	Diethylphthalate	1.291	1.283	0.6	100	0.00
66	M	Fluorene	1.268	1.282	-1.1	100	0.00
67	M	4-Chlorophenylphenyl ether	0.620	0.622	-0.3	100	0.00
68	M	Thionazin	0.288	0.298	-3.5	100	0.00
69	M	5-Nitro-o-toluidine	0.362	0.372	-2.8	100	0.00
70	M	4-Nitroaniline	0.282	0.289	-2.5	100	0.00
71	I	Phenanthrene-d10	1.000	1.000	0.0	100	0.00
72	M	2-Methyl-4,6-dinitrophenol	0.164	0.173	-5.5	100	0.00
73	M	Diphenylamine	0.711	0.715	-0.6	100	0.00
74	M	Azobenzene	0.858	0.868	-1.2	100	0.00
75	S	2,4,6-Tribromophenol	0.099	0.101	-2.0	100	0.00
76	M	Sulfotep	0.139	0.141	-1.4	100	0.00
77	M	Phorate	0.067	0.069	-3.0	100	0.00
78	M	Diallate	0.279	0.295	-5.7	100	0.00
79	M	4-Bromophenyl phenyl ether	0.221	0.216	2.3	100	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\BPARUCHU\DATA\1C050803\1C050802.D Vial: 2
Acq On : 8 May 2003 3:00 pm Operator: BP
Sample : CC 25 ppm std Inst : GCMS1
Misc : CRL QA - WP PE Multiplr: 1.00
MS Integration Params: rteint.p

Method : D:\BPARUCHU\METHODS\1C508261.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002
Last Update : Fri May 09 11:45:52 2003
Response via : Single Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
80	M	Alpha-BHC	0.151	0.155	-2.6	100	0.00
81	M	Phenacetin	0.255	0.248	2.7	100	0.00
82	M	1,3,5-Trinitrobenzene	0.102	0.107	-4.9	100	0.00
83	M	Hexachlorobenzene	0.234	0.238	-1.7	100	0.00
84	M	Dimethoate	0.320	0.350	-9.4	100	0.00
85	M	Beta-BHC	0.124	0.128	-3.2	100	0.00
86	M	Pentachloronitrobenzene	0.041	0.042	-2.4	100	0.00
87	M	4-Aminobiphenyl	0.510	0.527	-3.3	100	0.00
88	M	Pentachlorophenol	0.129	0.153	-18.6	100	0.00
89	M	Delta-BHC	0.127	0.130	-2.4	100	0.00
90	M	Pronamide	0.368	0.365	0.8	100	0.00
91	M	Phenanthrene	1.103	1.108	-0.5	100	0.00
92	M	Dinoseb	0.216	0.236	-9.3	100	0.00
93	M	Disulfoton	0.541	0.556	-2.8	100	0.00
94	M	Anthracene	1.146	1.152	-0.5	100	0.00
95	M	Gamma-BHC	0.122	0.126	-3.3	100	0.00
96	M	Carbazole	1.061	1.116	-5.2	100	0.00
97	M	Methyl Parathion	0.163	0.176	-8.0	100	0.00
98	M	Heptachlor	0.101	0.106	-5.0	100	0.00
99	M	Di-n-butylphthalate	1.258	1.302	-3.5	100	0.00
100	M	Aldrin	0.093	0.096	-3.2	100	0.00
101	M	Ethyl Parathion	0.130	0.138	-6.2	100	0.00
102	M	Isodrin	0.134	0.136	-1.5	100	0.00
103	M	Heptachlor Epoxide	0.062	0.063	-1.6	100	0.00
104	M	Fluoranthene	1.216	1.234	-1.5	100	0.00
105	I	Chrysene-d12	1.000	1.000	0.0	100	0.00
106	M	Pyrene	1.238	1.209	2.3	100	0.00
107	M	p,p'-DDE	0.262	0.256	2.3	100	0.00
108	S	Terphenyl-d14	0.838	0.833	0.6	100	0.00
109	M	Dieldrin	0.212	0.216	-1.9	100	0.00
110	M	p-Dimethylaminoazobenzene	0.295	0.290	1.7	100	0.00
111	M	Chlorobenzilate	0.394	0.388	1.5	100	0.00
112	M	Endrin	0.047	0.048	-2.1	100	0.00
113	M	p,p'-DDD	0.449	0.450	-0.2	100	0.00
114	M	Endrin Aldehyde	0.004	0.004	0.0	100	0.00
115	M	Famphur	0.141	0.111	21.3	100	0.00
116	M	Butylbenzylphthalate	0.610	0.614	-0.7	100	0.00
117	M	Endosulfan Sulfate	0.378	0.388	-2.6	100	0.00
118	M	2-Acetylaminofluorene	0.541	0.562	-3.9	100	0.00
119	M	Endrin Ketone	0.679	0.704	-3.7	100	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\BPARUCHU\DATA\1C050803\1C050802.D Vial: 2
Acq On : 8 May 2003 3:00 pm Operator: BP
Sample : CC 25 ppm std Inst : GCMS1
Misc : CRL QA - WP PE Multiplr: 1.00
MS Integration Params: rteint.p

Method : D:\BPARUCHU\METHODS\1C508261.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002
Last Update : Fri May 09 11:45:52 2003
Response via : Single Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
120	M	Methoxychlor	0.679	0.704	-3.7	100	0.00
121	M	Benz(a)anthracene	1.213	1.218	-0.4	100	0.00
122	M	3,3'-Dichlorobenzidine	0.296	0.305	-3.0	100	0.00
123	M	Bis(2-ethylhexyl)phthalate	0.831	0.864	-4.0	100	0.00
124	M	Chrysene	1.053	1.057	-0.4	100	0.00
125	I	Perylene-d12	1.000	1.000	0.0	100	0.00
126	M	Di-n-octylphthalate	1.712	1.771	-3.4	100	0.00
127	M	7,12-Dimethylbenz(a)anthrac	0.703	0.695	1.1	100	0.00
128	M	Benzo[b]fluoranthene	1.626	1.639	-0.8	100	0.00
129	M	Benzo(k)fluoranthene	1.314	1.252	4.7	100	0.00
130	M	Benzo(a)pyrene	1.403	1.415	-0.9	100	0.00
131	M	3-Methylcholanthrene	0.802	0.811	-1.1	100	0.00
132	M	Indeno[1,2,3,cd]pyrene	1.724	1.710	0.8	100	0.00
133	M	Dibenz(a,h)anthracene	1.432	1.436	-0.3	100	0.00
134	M	Benzo(g,h,i)perylene	1.422	1.437	-1.1	100	0.00

4B

EPA SAMPLE NO.

SEMIVOLATILE METHOD BLANK SUMMARY

Lab Blank #1

Lab Name: Indiana Harbor Contract: ML-10C

Lab Code: USEPA-R5 Case No.: 0305007 SAS No.: GCMS SDG No.: SF

Lab File ID: 1C060207.D Lab Sample ID: B305027-BLK1

Instrument ID: Date Extracted: 5/27/03

Matrix: (soil/water) SOIL Date Analyzed: 6/2/03

Level: (low/med) LOW Time Analyzed: 19:18

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	LAB SPIKE #1	B305027-BS1	1C060208.D	6/2/03
02	LAB SPIKE DUP #1	B305027-BSD1	1C060209.D	6/2/03

COMMENTS:

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Indiana Harbor Contract: ML-10C

Lab Code: USEPA-R5 Case No.: 0305007 SAS No.: GCMS SDG No.: SF

Lab File ID: 1C060201.D DFTPP Injection Date: 6/2/03

Instrument ID: DFTPP Injection Time: 15:00

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	39.5
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 Relative abundance	40.3
70	Less than 2.0% of mass 69	0.2 (0.5)1
127	25.0 - 75.0% of mass 198	50.4
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 30.0% of mass 198	23.9
365	Greater than 0.75% of mass 198	2.8
441	Present, but less than mass 443	8.8
442	40.0 - 110.0% of mass 198	59.6
443	15.0 - 24.0% of mass 442	11.6 (19.5)2

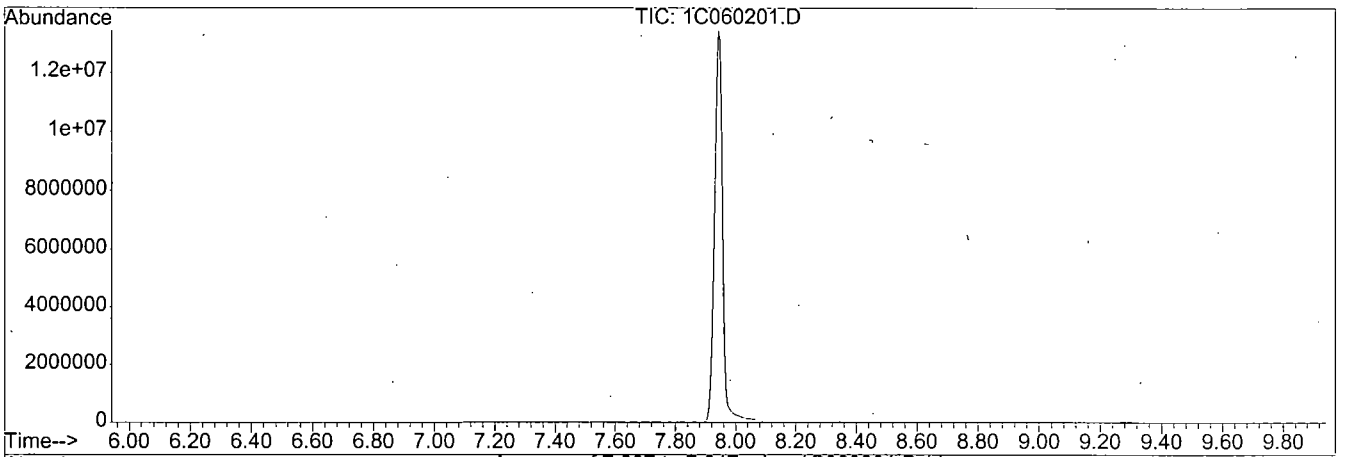
1-Value is % mass 69 2-Value is % mass 442

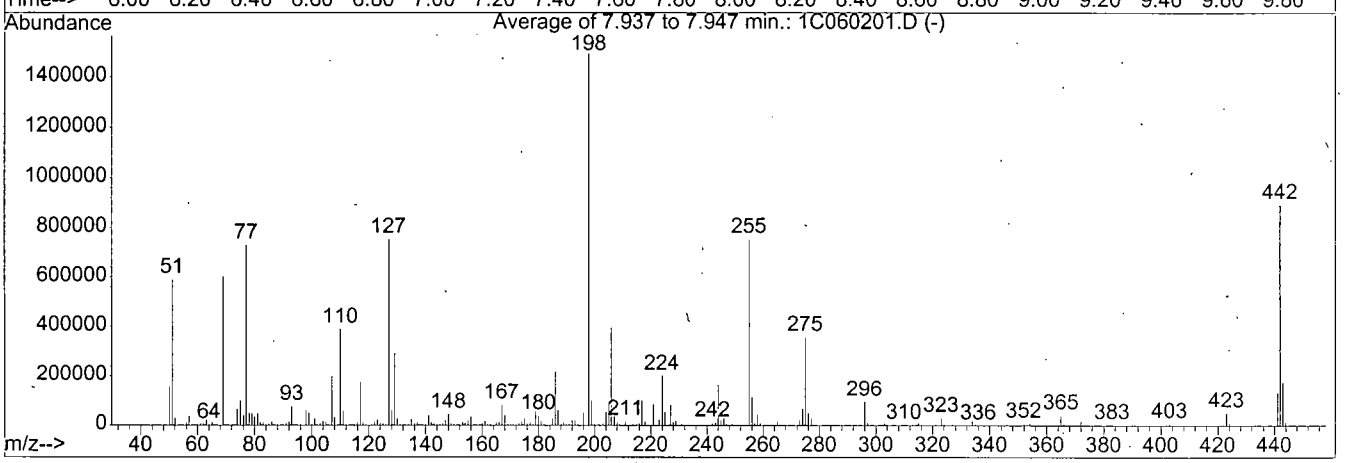
THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD0602ACC	ABN CC 25 PPM	1C060202.D	6/2/03	15:21
02	LAB BLANK #1	B305027-BLK1	1C060207.D	6/2/03	19:18
03	LAB SPIKE #1	B305027-BS1	1C060208.D	6/2/03	20:05
04	LAB SPIKE DUP #1	B305027-BSD1	1C060209.D	6/2/03	20:51

DFTPP for METHOD 625SAS

Data File : D:\BPARUCHU\DATA\1C060203\1C060201.D Vial: 1
Acq On : 2 Jun 2003 3:00 pm Operator: BP
Sample : DFTPP 50 ng Inst : GCMS1
Misc : WO # 0304017 & 0305007 PAHs Multiplr: 1.00
MS Integration Params: rteint.p
Method : D:\BPARUCHU\METHODS\1C611262.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002





Spectrum Information: Average of 7.937 to 7.947 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	80	39.5	590825	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.01	100	40.3	601867	PASS
70	69	0.00	2	0.5	3258	PASS
127	198	25	75	50.4	752683	PASS
197	198	0.00	1	0.0	0	PASS
198	198	90	100	100.0	1494016	PASS
199	198	5	9	6.9	102776	PASS
275	198	10	30	23.9	357696	PASS
365	198	0.75	100	2.8	41747	PASS
441	443	0.01	100	75.8	131891	PASS
442	198	40	110	59.6	891029	PASS
443	442	15	24	19.5	173952	PASS

1C060201.D 1C611262.M Thu Jun 12 11:21:31 2003 TEST

Evaluate Continuing Calibration Report

Data File : D:\BPARUCHU\DATA\1C060203\1C060202.D Vial: 2
Acq On : 2 Jun 2003 3:21 pm Operator: BP
Sample : ABN cc 25 ppm Inst : GCMS1
Misc : WO # 0304017 & 0305007 PAHs Multiplr: 1.00
MS Integration Params: rteint.p

Method : D:\BPARUCHU\METHODS\1C602261.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002
Last Update : Mon Jun 02 16:15:39 2003
Response via : Single Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	80	0.00
2	M	2-Picoline	0.400	0.268	33.0#	31#	0.00
3	M	N-Nitrosomethylethylamine	0.406	0.367	9.6	72	0.00
4	M	Methyl methanesulfonate	0.331	0.314	5.1	76	0.00
5	S	2-Fluorophenol	0.682	0.669	1.9	77	0.00
6	M	N-Nitrosodiethylamine	0.412	0.374	9.2	74	0.00
7	M	Ethyl methanesulfonate	0.607	0.566	6.8	76	0.00
8	M	Aniline	1.120	0.274	75.5#	46#	0.00
9	M	Pentachloroethane	0.300	0.294	2.0	76	0.00
10	S	Phenol-d5	0.894	0.873	2.3	72	0.00
11	M	Phenol	1.051	0.998	5.0	73	0.00
12	M	Bis(2-chloroethyl)ether	0.883	0.750	15.1	57	0.00
13	M	2-Chlorophenol	0.833	0.826	0.8	81	0.00
14	M	1,3-Dichlorobenzene	0.895	0.860	3.9	77	0.00
15	M	1,4-Dichlorobenzene	0.904	0.902	0.2	80	0.00
16	M	1,2-Dichlorobenzene	0.847	0.815	3.8	76	0.00
17	M	Benzyl alcohol	0.489	0.434	11.2	64	0.00
18	M	bis(2-Chloroisopropyl)ether	0.295	0.282	4.4	75	0.00
19	M	2-Methylphenol	0.725	0.598	17.5	68	0.00
20	M	Acetophenone	1.100	1.034	6.0	74	0.00
21	M	o-Toluidine	0.884	0.542	38.7#	35#	0.00
22	M	Hexachloroethane	0.298	0.305	-2.3	77	0.00
23	M	N-Nitroso-di-n-propylamine	0.594	0.560	5.7	70	0.00
24	M	3-&/or 4-Methylphenol	0.932	0.994	-6.7	82	0.00
25	I	Naphthalene-d8	1.000	1.000	0.0	79	0.00
26	S	Nitrobenzene-d5	0.383	0.383	0.0	77	0.00
27	M	Nitrobenzene	0.209	0.200	4.3	77	0.00
28	M	N-Nitrosopiperidine	0.191	0.177	7.3	73	0.00
29	M	Isophorone	0.737	0.695	5.7	72	0.00
30	M	2-Nitrophenol	0.222	0.213	4.1	75	0.00
31	M	2,4-Dimethylphenol	0.384	0.362	5.7	73	0.00
32	M	o,o,o-Triethylphosphorothio	0.200	0.201	-0.5	76	0.00
33	M	Bis(2-chloroethoxy)methane	0.459	0.408	11.1	77	0.00
34	M	2,4-Dichlorophenol	0.310	0.302	2.6	76	0.00
35	M	1,2,4-Trichlorobenzene	0.337	0.344	-2.1	82	0.00
36	M	Naphthalene	1.061	1.019	4.0	75	0.00
37	M	Hexachloropropene	0.219	0.210	4.1	72	0.00
38	M	4-Choroaniline	0.362	0.397	-9.7	74	0.00
39	M	Hexachlorobutadiene	0.188	0.187	0.5	77	0.00
40	M	N-Nitrosodi-n-butylamine	0.261	0.258	1.1	76	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\BPARUCHU\DATA\1C060203\1C060202.D Vial: 2
Acq On : 2 Jun 2003 3:21 pm Operator: BP
Sample : ABN cc 25 ppm Inst : GCMS1
Misc : WO # 0304017 & 0305007 PAHs Multiplr: 1.00
MS Integration Params: rteint.p

Method : D:\BPARUCHU\METHODS\1C602261.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002
Last Update : Mon Jun 02 16:15:39 2003
Response via : Single Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
41	M	4-Chloro-3-methylphenol	0.315	0.303	3.8	72	0.00
42	M	Safrole	0.302	0.289	4.3	76	0.00
43	M	2-Methylnaphthalene	0.732	0.705	3.7	75	0.00
44	I	Acenaphthene-d10	1.000	1.000	0.0	82	0.00
45	M	Hexachlorocyclopentadiene	0.301	0.245	18.6	63	0.00
46	M	1,2,4,5-Tetrachlorobenzene	0.507	0.480	5.3	77	0.00
47	M	2,4,6-Trichlorophenol	0.341	0.323	5.3	76	0.00
48	M	2,4,5-Trichlorophenol	0.362	0.345	4.7	75	0.00
49	S	2-Fluorobiphenyl	1.149	1.127	1.9	78	0.00
50	M	Isosafrole	0.469	0.437	6.8	77	0.00
51	M	2-Chloronaphthalene	1.049	1.001	4.6	77	0.00
52	M	2-Nitroaniline	0.395	0.401	-1.5	81	0.00
53	M	1,4-Naphthoquinone	0.306	0.300	2.0	76	0.00
54	M	Dimethylphthalate	1.248	1.259	-0.9	83	0.00
55	M	2,6-Dinitrotoluene	0.308	0.312	-1.3	82	0.00
56	M	1,3-Dinitrobenzene	0.240	0.238	0.8	80	0.00
57	M	Acenaphthylene	1.720	1.752	-1.9	82	0.00
58	M	3-Nitroaniline	0.309	0.277	10.4	76	0.00
59	M	Acenaphthene	1.100	1.093	0.6	81	0.00
60	M	2,4-Dinitrophenol	0.167	0.125	25.1#	53	0.00
61	M	Pentachlorobenzene	0.468	0.456	2.6	81	0.00
62	M	Dibenzofuran	1.524	1.601	-5.1	86	0.00
63	M	2,4-Dinitrotoluene	0.410	0.427	-4.1	86	0.00
64	M	4-Nitrophenol	0.153	0.131	14.4	60	0.00
65	M	Diethylphthalate	1.291	1.285	0.5	82	0.00
66	M	Fluorene	1.268	1.293	-2.0	82	0.00
67	M	4-Chlorophenylphenyl ether	0.620	0.617	0.5	81	0.00
68	M	Thionazin	0.288	0.279	3.1	76	0.00
69	M	5-Nitro-o-toluidine	0.362	0.357	1.4	78	0.00
70	M	4-Nitroaniline	0.282	0.272	3.5	77	0.00
71	I	Phenanthrene-d10	1.000	1.000	0.0	83	0.00
72	M	2-Methyl-4,6-dinitrophenol	0.164	0.137	16.5	66	0.00
73	M	Diphenylamine	0.711	0.704	1.0	82	0.00
74	M	Azobenzene	0.858	0.835	2.7	80	0.00
75	S	2,4,6-Tribromophenol	0.099	0.090	9.1	74	0.00
76	M	Sulfotep	0.139	0.127	8.6	74	0.00
77	M	Phorate	0.067	0.064	4.5	77	0.00
78	M	Diallate	0.279	0.284	-1.8	80	0.00
79	M	4-Bromophenyl phenyl ether	0.221	0.197	10.9	76	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\BPARUCHU\DATA\1C060203\1C060202.D Vial: 2
Acq On : 2 Jun 2003 3:21 pm Operator: BP
Sample : ABN cc 25 ppm Inst : GCMS1
Misc : WO # 0304017 & 0305007 PAHs Multiplr: 1.00
MS Integration Params: rteint.p

Method : D:\BPARUCHU\METHODS\1C602261.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002
Last Update : Mon Jun 02 16:15:39 2003
Response via : Single Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
80	M	Alpha-BHC	0.151	0.150	0.7	80	0.00
81	M	Phenacetin	0.255	0.237	7.1	79	0.00
82	M	1,3,5-Trinitrobenzene	0.102	0.094	7.8	73	0.00
83	M	Hexachlorobenzene	0.234	0.219	6.4	77	0.00
84	M	Dimethoate	0.320	0.337	-5.3	80	0.00
85	M	Beta-BHC	0.124	0.125	-0.8	81	0.00
86	M	Pentachloronitrobenzene	0.041	0.038	7.3	74	0.00
87	M	4-Aminobiphenyl	0.510	0.529	-3.7	83	0.00
88	M	Pentachlorophenol	0.129	0.124	3.9	67	0.00
89	M	Delta-BHC	0.127	0.128	-0.8	82	0.00
90	M	Pronamide	0.368	0.356	3.3	81	0.00
91	M	Phenanthrene	1.103	1.087	1.5	81	0.00
92	M	Dinoseb	0.216	0.178	17.6	63	0.00
93	M	Disulfoton	0.541	0.520	3.9	78	0.00
94	M	Anthracene	1.146	1.147	-0.1	83	0.00
95	M	Gamma-BHC	0.122	0.122	0.0	80	0.00
96	M	Carbazole	1.061	0.993	6.4	74	0.00
97	M	Methyl Parathion	0.163	0.148	9.2	70	0.00
98	M	Heptachlor	0.101	0.088	12.9	69	0.00
99	M	Di-n-butylphthalate	1.258	1.227	2.5	78	0.00
100	M	Aldrin	0.093	0.084	9.7	72	0.00
101	M	Ethyl Parathion	0.130	0.117	10.0	70	0.00
102	M	Isodrin	0.134	0.131	2.2	80	0.00
103	M	Heptachlor Epoxide	0.062	0.057	8.1	75	0.00
104	M	Fluoranthene	1.216	1.203	1.1	81	0.00
105	I	Chrysene-d12	1.000	1.000	0.0	70	0.00
106	M	Pyrene	1.238	1.357	-9.6	78	0.00
107	M	p,p'-DDE	0.262	0.284	-8.4	78	0.00
108	S	Terphenyl-d14	0.838	0.910	-8.6	76	0.00
109	M	Dieldrin	0.212	0.227	-7.1	73	0.00
110	M	p-Dimethylaminoazobenzene	0.295	0.314	-6.4	76	0.00
111	M	Chlorobenzilate	0.394	0.398	-1.0	72	0.00
112	M	Endrin	0.047	0.045	4.3	65	0.00
113	M	p,p'-DDD	0.449	0.500	-11.4	78	0.00
114	M	Endrin Aldehyde	0.004	0.004	0.0	85	0.00
115	M	Famphur	0.141	0.120	14.9	76	0.00
116	M	Butylbenzylphthalate	0.610	0.654	-7.2	74	0.00
117	M	Endosulfan Sulfate	0.378	0.324	14.3	58	0.00
118	M	2-Acetylaminofluorene	0.541	0.567	-4.8	70	0.00
119	M	Endrin Ketone	0.679	0.609	10.3	60	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\BPARUCHU\DATA\1C060203\1C060202.D Vial: 2
Acq On : 2 Jun 2003 3:21 pm Operator: BP
Sample : ABN cc 25 ppm Inst : GCMS1
Misc : WO # 0304017 & 0305007 PAHs Multiplr: 1.00
MS Integration Params: rteint.p

Method : D:\BPARUCHU\METHODS\1C602261.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002
Last Update : Mon Jun 02 16:15:39 2003
Response via : Single Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
120	M	Methoxychlor	0.679	0.609	10.3	60	0.00
121	M	Benz(a)anthracene	1.213	1.172	3.4	67	0.00
122	M	3,3'-Dichlorobenzidine	0.296	0.259	12.5	59	0.00
123	M	Bis(2-ethylhexyl)phthalate	0.831	0.920	-10.7	74	0.00
124	M	Chrysene	1.053	1.045	0.8	69	0.00
125	I	Perylene-d12	1.000	1.000	0.0	68	0.00
126	M	Di-n-octylphthalate	1.712	2.012	-17.5	77	0.00
127	M	7,12-Dimethylbenz(a)anthrac	0.703	0.700	0.4	68	0.00
128	M	Benzo[b]fluoranthene	1.626	1.592	2.1	66	0.00
129	M	Benzo(k)fluoranthene	1.314	1.345	-2.4	73	0.00
130	M	Benzo(a)pyrene	1.403	1.431	-2.0	69	0.00
131	M	3-Methylcholanthrene	0.802	0.763	4.9	64	0.00
132	M	Indeno[1,2,3,cd]pyrene	1.724	1.729	-0.3	69	0.00
133	M	Dibenz(a,h)anthracene	1.432	1.414	1.3	67	0.00
134	M	Benzo(g,h,i)perylene	1.422	1.436	-1.0	68	0.00

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

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Indiana Harbor Contract: ML-10C

Lab Code: USEPA-R5 Case No.: 0305007 SAS No.: GCMS SDG No.: SF

Lab File ID (Standard): 1C060202.D Date Analyzed: 6/2/03

Instrument ID: Time Analyzed: 15:21

		IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
	12 HOUR STD	3900858	8.80	8384434	11.86	5706602	16.35
	UPPER LIMIT	7801716	9.30	16768868	12.36	11413204	16.85
	LOWER LIMIT	1950429	8.30	4192217	11.36	2853301	15.85
	EPA SAMPLE NO.						
01	LAB BLANK #1	3358493	8.80	7843519	11.85	5385501	16.34
02	LAB SPIKE #1	3564865	8.81	8190205	11.87	5013601	16.36
03	LAB SPIKE DUP	3554918	8.81	8055103	11.87	4957110	16.36

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8
IS3 = Acenaphthene-d10
IS4 = Phenanthrene-d10
IS5 = Chrysene-d12
IS6 = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.
* Values outside of contract required QC limits

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Indiana Harbor Contract: ML-10C

Lab Code: USEPA-R5 Case No.: 0305007 SAS No.: GCMS SDG No.: SF

Lab File ID (Standard): 1C060202.D Date Analyzed: 06/02/03

Instrument ID: Time Analyzed: 15:21

		IS4 AREA #	RT #	IS5 AREA #	RT #	IS6 AREA #	RT #
	12 HOUR STD	9014984	20.20	8014032	26.22	6026513	28.94
	UPPER LIMIT	18029968	19.70	16028064	25.72	12053026	28.44
	LOWER LIMIT	4507492	20.70	4007016	26.72	3013257	29.44
	EPA SAMPLE NO.						
01	LAB BLANK #	8169635	20.19	8309554	26.20	5842324	28.94
02	LAB SPIKE #1	8188883	20.22	7178135	26.23	5701560	28.96
03	LAB SPIKE D	8161522	20.22	7198281	26.23	5697600	28.96

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8
IS3 = Acenaphthene-d10
IS4 = Phenanthrene-d10
IS5 = Chrysene-d12
IS6 = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.
* Values outside of contract required QC limits

4B

EPA SAMPLE NO.

SEMIVOLATILE METHOD BLANK SUMMARY

Lab Blank

Lab Name: Indiana Harbor Contract: ML-10C

Lab Code: USEPA-R5 Case No.: 0305007 SAS No.: GCMS SDG No.: SF

Lab File ID: 1C060207.D Lab Sample ID: B305027-BLK1

Instrument ID: Date Extracted: 5/27/03

Matrix: (soil/water) SOIL Date Analyzed: 6/2/03

Level: (low/med) LOW Time Analyzed: 19:18

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	0305007-01	0305007-01 @ IND. HAR	1C060219.D	6/3/03
02	0305007-02	0305007-02 @ IND. HAR	1C060220.D	6/3/03
03	0305007-03	0305007-03 @ IND. HAR	1C060221.D	6/3/03
04	0305007-04	0305007-04 @ IND. HAR	1C060222.D	6/3/03
05	0305007-05	0305007-05 @ IND. HAR	1C060223.D	6/3/03
06	0305007-06	0305007-06 @ IND. HAR	1C060224.D	6/3/03
07	0305007-07	0305007-07 @ IND. HAR	1C060225.D	6/3/03

COMMENTS:

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Indiana Harbor Contract: ML-10C

Lab Code: USEPA-R5 Case No.: 0305007 SAS No.: GCMS SDG No.: SF

Lab File ID: 1C060217.D DFTPP Injection Date: 6/3/03

Instrument ID: DFTPP Injection Time: 3:05

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	35.8
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 Relative abundance	40.3
70	Less than 2.0% of mass 69	0.2 (0.6)1
127	25.0 - 75.0% of mass 198	49.7
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.0
275	10.0 - 30.0% of mass 198	25.1
365	Greater than 0.75% of mass 198	2.7
441	Present, but less than mass 443	9.7
442	40.0 - 110.0% of mass 198	65.3
443	15.0 - 24.0% of mass 442	12.7 (19.4)2

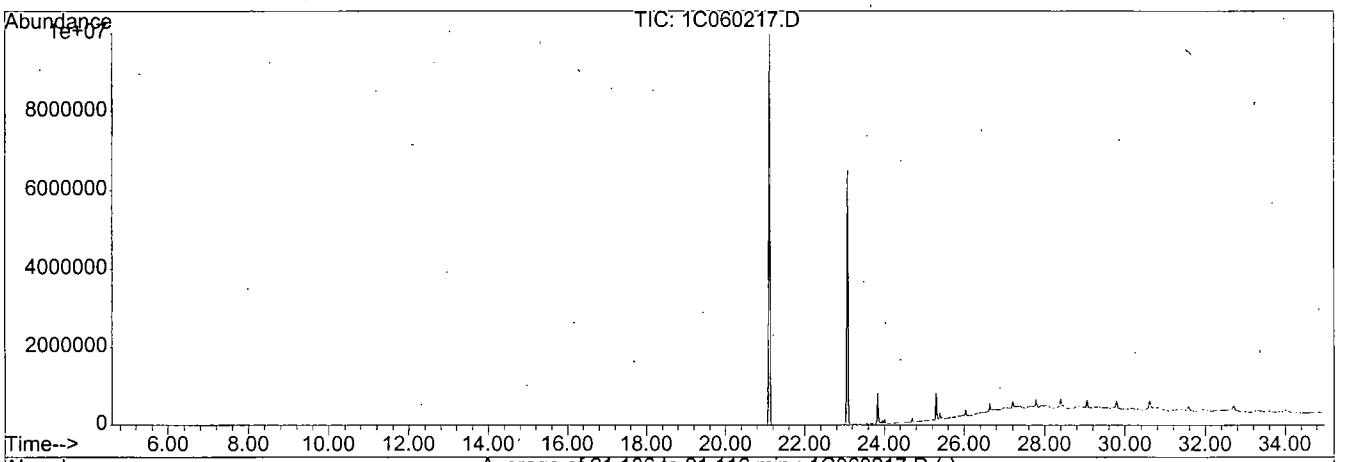
1-Value is % mass 69 2-Value is % mass 442

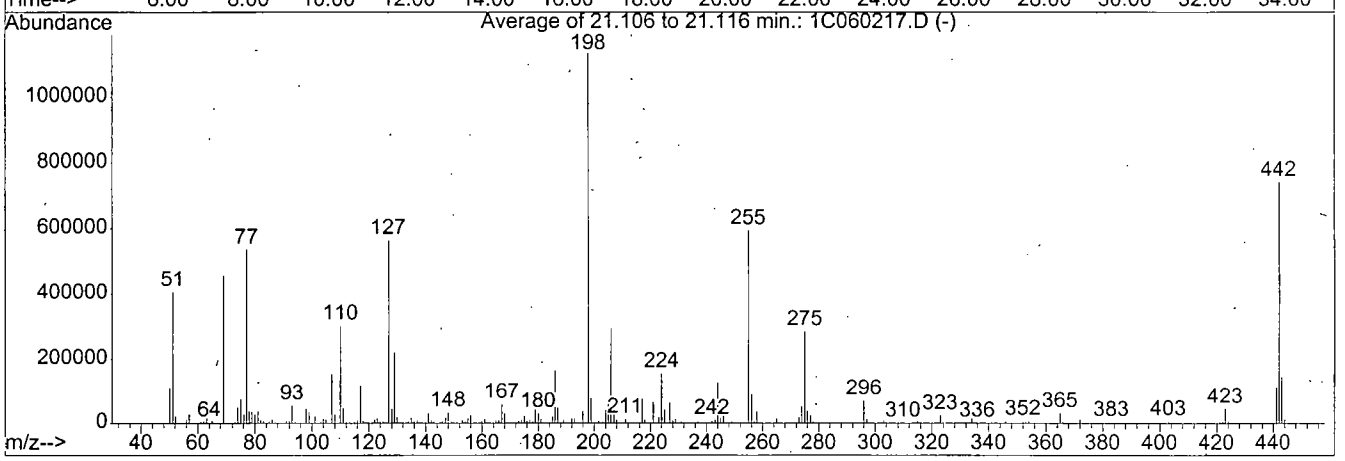
THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD0602BCC	CC2 25PPM @ IND. HA	1C060218.D	6/3/03	3:52
02	0305007-01	0305007-01 @ IND. HAR	1C060219.D	6/3/03	4:39
03	0305007-02	0305007-02 @ IND. HAR	1C060220.D	6/3/03	5:25
04	0305007-03	0305007-03 @ IND. HAR	1C060221.D	6/3/03	6:12
05	0305007-04	0305007-04 @ IND. HAR	1C060222.D	6/3/03	6:58
06	0305007-05	0305007-05 @ IND. HAR	1C060223.D	6/3/03	7:45
07	0305007-06	0305007-06 @ IND. HAR	1C060224.D	6/3/03	8:32
08	0305007-07	0305007-07 @ IND. HAR	1C060225.D	6/3/03	9:19

DFTPP for METHOD 625SAS

Data File : D:\BPARUCHU\DATA\1C060203\1C060217.D Vial: 1
Acq On : 3 Jun 2003 3:05 am Operator: BP
Sample : DFTPP @ Ind. Harbor Inst : GCMS1
Misc : WO # 0305007 --.--g/--mL PAHs Multiplr: 1.00
MS Integration Params: rteint.p
Method : D:\BPARUCHU\METHODS\1C602262.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002





Spectrum Information: Average of 21.106 to 21.116 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	80	35.8	406549	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.01	100	40.3	456960	PASS
70	69	0.00	2	0.6	2682	PASS
127	198	25	75	49.7	564288	PASS
197	198	0.00	1	0.0	0	PASS
198	198	90	100	100.0	1135232	PASS
199	198	5	9	7.0	79445	PASS
275	198	10	30	25.1	284715	PASS
365	198	0.75	100	2.7	30976	PASS
441	443	0.01	100	76.7	110245	PASS
442	198	40	110	65.3	741717	PASS
443	442	15	24	19.4	143797	PASS

1C060217.D 1C602262.M Tue Jun 24 10:58:11 2003 TEST

Evaluate Continuing Calibration Report

Data File : D:\BPARUCHU\DATA\1C060203\1C060218.D Vial: 2
Acq On : 3 Jun 2003 3:52 am Operator: BP
Sample : CC2 25ppm @ Ind. Harbor Inst : GCMS1
Misc : WO # 0305007 --.--g/--mL PAHs Multiplr: 1.00
MS Integration Params: rteint.p

Method : D:\BPARUCHU\METHODS\1C602262.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002
Last Update : Tue Jun 24 11:02:38 2003
Response via : Single Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	89	0.00
2	M	2-Picoline	0.400	0.487	-21.7	62	0.00
3	M	N-Nitrosomethylethylamine	0.406	0.457	-12.6	99	0.00
4	M	Methyl methanesulfonate	0.331	0.312	5.7	83	0.00
5	S	2-Fluorophenol	0.682	0.7090	-4.0	90	0.00
6	M	N-Nitrosodiethylamine	0.412	0.393	4.6	86	0.00
7	M	Ethyl methanesulfonate	0.607	0.584	3.8	87	0.00
8	M	Aniline	1.120	0.632	43.6#	118	0.00
9	M	Pentachloroethane	0.300	0.311	-3.7	89	0.00
10	S	Phenol-d5	0.894	0.901	-0.8	82	0.00
11	M	Phenol	1.051	1.042	0.9	85	0.00
12	M	Bis(2-chloroethyl)ether	0.883	0.790	10.5	66	0.00
13	M	2-Chlorophenol	0.833	0.824	1.1	89	0.00
14	M	1,3-Dichlorobenzene	0.895	0.911	-1.8	90	0.00
15	M	1,4-Dichlorobenzene	0.904	0.912	-0.9	89	0.00
16	M	1,2-Dichlorobenzene	0.847	0.862	-1.8	89	0.00
17	M	Benzyl alcohol	0.489	0.477	2.5	77	0.00
18	M	bis(2-Chloroisopropyl)ether	0.295	0.297	-0.7	88	0.00
19	M	2-Methylphenol	0.725	0.617	14.9	78	0.00
20	M	Acetophenone	1.100	1.086	1.3	86	0.00
21	M	o-Toluidine	0.884	0.924	-4.5	66	0.00
22	M	Hexachloroethane	0.298	0.325	-9.1	91	0.00
23	M	N-Nitroso-di-n-propylamine	0.594	0.602	-1.3	83	0.00
24	M	3-&/or 4-Methylphenol	0.932	1.124	-20.6	103	0.00
25	I	Naphthalene-d8	1.000	1.000	0.0	89	0.00
26	S	Nitrobenzene-d5	0.383	0.382	0.3	87	0.00
27	M	Nitrobenzene	0.209	0.197	5.7	86	0.00
28	M	N-Nitrosopiperidine	0.191	0.179	6.3	84	0.00
29	M	Isophorone	0.737	0.725	1.6	85	0.00
30	M	2-Nitrophenol	0.222	0.216	2.7	87	0.00
31	M	2,4-Dimethylphenol	0.384	0.371	3.4	85	0.00
32	M	o,o,o-Triethylphosphorothio	0.200	0.209	-4.5	90	0.00
33	M	Bis(2-chloroethoxy)methane	0.459	0.417	9.2	89	0.00
34	M	2,4-Dichlorophenol	0.310	0.295	4.8	84	0.00
35	M	1,2,4-Trichlorobenzene	0.337	0.347	-3.0	94	0.00
36	M	Naphthalene	1.061	1.046	1.4	88	0.00
37	M	Hexachloropropene	0.219	0.221	-0.9	86	0.00
38	M	4-Choroaniline	0.362	0.379	-4.7	80	0.00
39	M	Hexachlorobutadiene	0.188	0.193	-2.7	91	0.00
40	M	N-Nitrosodi-n-butylamine	0.261	0.259	0.8	86	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\BPARUCHU\DATA\1C060203\1C060218.D Vial: 2
Acq On : 3 Jun 2003 3:52 am Operator: BP
Sample : CC2 25ppm @ Ind. Harbor Inst : GCMS1
Misc : WO # 0305007 --.--g/--mL PAHs Multiplr: 1.00
MS Integration Params: rteint.p

Method : D:\BPARUCHU\METHODS\1C602262.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002
Last Update : Tue Jun 24 11:02:38 2003
Response via : Single Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
41	M	4-Chloro-3-methylphenol	0.315	0.316	-0.3	85	0.00
42	M	Safrole	0.302	0.302	0.0	90	0.00
43	M	2-Methylnaphthalene	0.732	0.734	-0.3	88	0.00
44	I	Acenaphthene-d10	1.000	1.000	0.0	87	0.00
45	M	Hexachlorocyclopentadiene	0.301	0.257	14.6	70	0.00
46	M	1,2,4,5-Tetrachlorobenzene	0.507	0.516	-1.8	88	0.00
47	M	2,4,6-Trichlorophenol	0.341	0.353	-3.5	88	0.00
48	M	2,4,5-Trichlorophenol	0.362	0.361	0.3	84	0.00
49	S	2-Fluorobiphenyl	1.149	1.201	-4.5	89	0.00
50	M	Isosafrole	0.469	0.471	-0.4	89	0.00
51	M	2-Chloronaphthalene	1.049	1.092	-4.1	89	0.00
52	M	2-Nitroaniline	0.395	0.395	0.0	85	0.00
53	M	1,4-Naphthoquinone	0.306	0.308	-0.7	83	0.00
54	M	Dimethylphthalate	1.248	1.311	-5.0	92	0.00
55	M	2,6-Dinitrotoluene	0.308	0.324	-5.2	91	0.00
56	M	1,3-Dinitrobenzene	0.240	0.238	0.8	86	0.00
57	M	Acenaphthylene	1.720	1.797	-4.5	89	0.00
58	M	3-Nitroaniline	0.309	0.270	12.6	79	0.00
59	M	Acenaphthene	1.100	1.118	-1.6	88	0.00
60	M	2,4-Dinitrophenol	0.167	0.128	23.4	57	0.00
61	M	Pentachlorobenzene	0.468	0.471	-0.6	89	0.00
62	M	Dibenzofuran	1.524	1.581	-3.7	90	0.00
63	M	2,4-Dinitrotoluene	0.410	0.424	-3.4	91	0.00
64	M	4-Nitrophenol	0.153	0.102	33.3#	49#	0.00
65	M	Diethylphthalate	1.291	1.311	-1.5	89	0.00
66	M	Fluorene	1.268	1.305	-2.9	88	0.00
67	M	4-Chlorophenylphenyl ether	0.620	0.640	-3.2	89	0.00
68	M	Thionazin	0.288	0.298	-3.5	87	0.00
69	M	5-Nitro-o-toluidine	0.362	0.362	0.0	84	0.00
70	M	4-Nitroaniline	0.282	0.275	2.5	83	0.00
71	I	Phenanthrene-d10	1.000	1.000	0.0	90	0.00
72	M	2-Methyl-4,6-dinitrophenol	0.164	0.152	7.3	79	0.00
73	M	Diphenylamine	0.711	0.706	0.7	89	0.00
74	M	Azobenzene	0.858	0.825	3.8	86	0.00
75	S	2,4,6-Tribromophenol	0.099	0.097	2.0	87	0.00
76	M	Sulfotep	0.139	0.136	2.2	87	0.00
77	M	Phorate	0.067	0.069	-3.0	90	0.00
78	M	Diallate	0.279	0.282	-1.1	87	0.00
79	M	4-Bromophenyl phenyl ether	0.221	0.202	8.6	85	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\BPARUCHU\DATA\1C060203\1C060218.D Vial: 2
Acq On : 3 Jun 2003 3:52 am Operator: BP
Sample : CC2 25ppm @ Ind. Harbor Inst : GCMS1
Misc : WO # 0305007 --.--g/--mL PAHs Multiplr: 1.00
MS Integration Params: rteint.p

Method : D:\BPARUCHU\METHODS\1C602262.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002
Last Update : Tue Jun 24 11:02:38 2003
Response via : Single Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
80	M	Alpha-BHC	0.151	0.155	-2.6	90	0.00
81	M	Phenacetin	0.255	0.227	11.0	83	0.00
82	M	1,3,5-Trinitrobenzene	0.102	0.093	8.8	78	0.00
83	M	Hexachlorobenzene	0.234	0.229	2.1	87	0.00
84	M	Dimethoate	0.320	0.322	-0.6	83	0.00
85	M	Beta-BHC	0.124	0.138	-11.3	97	0.00
86	M	Pentachloronitrobenzene	0.041	0.039	4.9	85	0.00
87	M	4-Aminobiphenyl	0.510	0.534	-4.7	92	0.00
88	M	Pentachlorophenol	0.129	0.130	-0.8	77	0.00
89	M	Delta-BHC	0.127	0.136	-7.1	95	0.00
90	M	Pronamide	0.368	0.373	-1.4	93	0.00
91	M	Phenanthrene	1.103	1.088	1.4	89	0.00
92	M	Dinoseb	0.216	0.207	4.2	79	0.00
93	M	Disulfoton	0.541	0.533	1.5	87	0.00
94	M	Anthracene	1.146	1.190	-3.8	93	0.00
95	M	Gamma-BHC	0.122	0.129	-5.7	93	0.00
96	M	Carbazole	1.061	1.070	-0.8	87	0.00
97	M	Methyl Parathion	0.163	0.168	-3.1	86	0.00
98	M	Heptachlor	0.101	0.102	-1.0	88	0.00
99	M	Di-n-butylphthalate	1.258	1.336	-6.2	93	0.00
100	M	Aldrin	0.093	0.092	1.1	86	0.00
101	M	Ethyl Parathion	0.130	0.130	0.0	85	0.00
102	M	Isodrin	0.134	0.142	-6.0	95	0.00
103	M	Heptachlor Epoxide	0.062	0.065	-4.8	92	0.00
104	M	Fluoranthene	1.216	1.271	-4.5	93	0.00
105	I	Chrysene-d12	1.000	1.000	0.0	82	0.00
106	M	Pyrene	1.238	1.325	-7.0	90	0.00
107	M	p,p'-DDE	0.262	0.309	-17.9	99	0.00
108	S	Terphenyl-d14	0.838	0.985	-17.5	97	0.00
109	M	Dieldrin	0.212	0.244	-15.1	93	0.00
110	M	p-Dimethylaminoazobenzene	0.295	0.316	-7.1	89	0.00
111	M	Chlorobenzilate	0.394	0.411	-4.3	87	0.00
112	M	Endrin	0.047	0.051	-8.5	86	0.00
113	M	p,p'-DDD	0.449	0.490	-9.1	89	0.00
114	M	Endrin Aldehyde	0.004	0.004	0.0	90	0.00
115	M	Famphur	0.141	0.115	18.4	85	0.00
116	M	Butylbenzylphthalate	0.610	0.667	-9.3	89	0.00
117	M	Endosulfan Sulfate	0.378	0.379	-0.3	80	0.00
118	M	2-Acetylaminofluorene	0.541	0.575	-6.3	84	0.00
119	M	Endrin Ketone	0.679	0.737	-8.5	86	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\BPARUCHU\DATA\1C060203\1C060218.D Vial: 2
Acq On : 3 Jun 2003 3:52 am Operator: BP
Sample : CC2 25ppm @ Ind. Harbor Inst : GCMS1
Misc : WO # 0305007 --.--g/--mL PAHs Multiplr: 1.00
MS Integration Params: rteint.p

Method : D:\BPARUCHU\METHODS\1C602262.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002
Last Update : Tue Jun 24 11:02:38 2003
Response via : Single Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
120	M	Methoxychlor	0.679	0.737	-8.5	86	0.00
121	M	Benz(a)anthracene	1.213	1.211	0.2	81	0.00
122	M	3,3'-Dichlorobenzidine	0.296	0.263	11.1	71	0.00
123	M	Bis(2-ethylhexyl)phthalate	0.831	0.917	-10.3	87	0.00
124	M	Chrysene	1.053	1.027	2.5	80	0.00
125	I	Perylene-d12	1.000	1.000	0.0	81	0.00
126	M	Di-n-octylphthalate	1.712	1.984	-15.9	91	0.00
127	M	7,12-Dimethylbenz(a)anthrac	0.703	0.716	-1.8	83	0.00
128	M	Benzo[b]fluoranthene	1.626	1.588	2.3	78	0.00
129	M	Benzo(k)fluoranthene	1.314	1.397	-6.3	90	0.00
130	M	Benzo(a)pyrene	1.403	1.481	-5.6	85	0.00
131	M	3-Methylcholanthrene	0.802	0.743	7.4	74	0.00
132	M	Indeno[1,2,3,cd]pyrene	1.724	1.599	7.3	76	0.00
133	M	Dibenz(a,h)anthracene	1.432	1.352	5.6	76	0.00
134	M	Benzo(g,h,i)perylene	1.422	1.262	11.3	71	0.00

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Indiana Harbor Contract: ML-10C

Lab Code: USEPA-R5 Case No.: 0305007 SAS No.: GCMS SDG No.: SF

Lab File ID (Standard): 1C060218.D Date Analyzed: 6/3/03

Instrument ID: Time Analyzed: 3:52

		IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
	12 HOUR STD	4308998	8.81	9523599	11.86	6076414	16.36
	UPPER LIMIT	8617996	9.31	19047198	12.36	12152828	16.86
	LOWER LIMIT	2154499	8.31	4761800	11.36	3038207	15.86
	EPA SAMPLE NO.						
01	0305007-01	4502662	8.80	9722673	11.85	6512957	16.36
02	0305007-02	4129831	8.80	9106223	11.86	5905859	16.37
03	0305007-03	4064281	8.80	9048597	11.85	6001057	16.36
04	0305007-04	4302732	8.80	9586128	11.86	6382751	16.36
05	0305007-05	5214378	8.81	11369984	11.86	7457525	16.38
06	0305007-06	4533022	8.80	10020103	11.86	6400025	16.37
07	0305007-07	4900981	8.81	10348210	11.86	7170489	16.37

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8
IS3 = Acenaphthene-d10
IS4 = Phenanthrene-d10
IS5 = Chrysene-d12
IS6 = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.
* Values outside of contract required QC limits

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Indiana Harbor Contract: ML-10C

Lab Code: USEPA-R5 Case No.: 0305007 SAS No.: GCMS SDG No.: SF

Lab File ID (Standard): 1C060218.D Date Analyzed: 06/03/03

Instrument ID: Time Analyzed: 03:52

		IS4 AREA #	RT #	IS5 AREA #	RT #	IS6 AREA #	RT #
	12 HOUR STD	9828419	20.22	9388393	26.23	7187146	28.96
	UPPER LIMIT	19656838	19.72	18776786	25.73	14374292	28.46
	LOWER LIMIT	4914210	20.72	4694197	26.73	3593573	29.46
	EPA SAMPLE NO.						
01	0305007-01	9812027	20.22	9554256	26.27	6327137	29.04
02	0305007-02	9195246	20.23	10246235	26.28	6135159	29.04
03	0305007-03	9218789	20.22	10002392	26.27	6450286	29.05
04	0305007-04	9690476	20.24	11642004	26.31	7357214	29.09
05	0305007-05	10906819	20.25	12028596	26.29	6984360	29.05
06	0305007-06	9783004	20.25	10623189	26.33	7912132	29.13
07	0305007-07	11926074	20.22	10686159	26.27	7230391	29.05

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8
IS3 = Acenaphthene-d10
IS4 = Phenanthrene-d10
IS5 = Chrysene-d12
IS6 = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.
* Values outside of contract required QC limits

4B

EPA SAMPLE NO.

SEMIVOLATILE METHOD BLANK SUMMARY

Lab Blank0527

Lab Name: Indiana Harbor Contract: ML-10C

Lab Code: USEPA-R5 Case No.: 0305007 SAS No.: GCMS SDG No.:

Lab File ID: 1C060207.D Lab Sample ID: B305027-BLK1

Instrument ID: Date Extracted: 5/27/03

Matrix: (soil/water) SOIL Date Analyzed: 6/2/03

Level: (low/med) LOW Time Analyzed: 19:18

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	0305007-08	0305007-08 @ INDIANA	1C061107.D	6/11/03
02	0305007-09	0305007-09 @ INDIANA	1C061108.D	6/11/03
03	0305007-10	0305007-10 @ INDIANA	1C061109.D	6/11/03
04	0305007-11	0305007-11 @ INDIANA	1C061110.D	6/12/03
05	0305007-12	0305007-12 @ INDIANA	1C061111.D	6/12/03
06	0305007-13	0305007-13 @ INDIANA	1C061112.D	6/12/03
07	0305007-14	0305007-14 @ INDIANA	1C061113.D	6/12/03
08	0305007-15	0305007-15 @ INDIANA	1C061114.D	6/12/03

COMMENTS:

4B

EPA SAMPLE NO.

SEMIVOLATILE METHOD BLANK SUMMARY

Lab Blank0528

Lab Name: Indiana Harbor Contract: ML-10C

Lab Code: USEPA-R5 Case No.: 0305007 SAS No.: GCMS SDG No.:

Lab File ID: 1C061103.D Lab Sample ID: B305030-BLK1 @ I

Instrument ID: Date Extracted: 5/28/03

Matrix: (soil/water) SOIL Date Analyzed: 6/11/03

Level: (low/med) LOW Time Analyzed: 19:11

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	LAB SPIKE0528	B305030-BS1 @ INDIAN	1C061104.D	6/11/03
02	LAB SPIKEDUP528	B305030-BSD1 @ INDIA	1C061105.D	6/11/03
03	0305007-16	0305007-16 @ INDIANA	1C061115.D	6/12/03

COMMENTS:

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Indiana Harbor Contract: ML-10C

Lab Code: USEPA-R5 Case No.: 0305007 SAS No.: GCMS SDG No.:

Lab File ID: 1C061101.D DFTPP Injection Date: 6/11/03

Instrument ID: DFTPP Injection Time: 17:36

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	34.5
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 Relative abundance	36.9
70	Less than 2.0% of mass 69	0.2 (0.5)1
127	25.0 - 75.0% of mass 198	45.1
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 30.0% of mass 198	25.6
365	Greater than 0.75% of mass 198	2.8
441	Present, but less than mass 443	8.7
442	40.0 - 110.0% of mass 198	59.6
443	15.0 - 24.0% of mass 442	11.8 (19.8)2

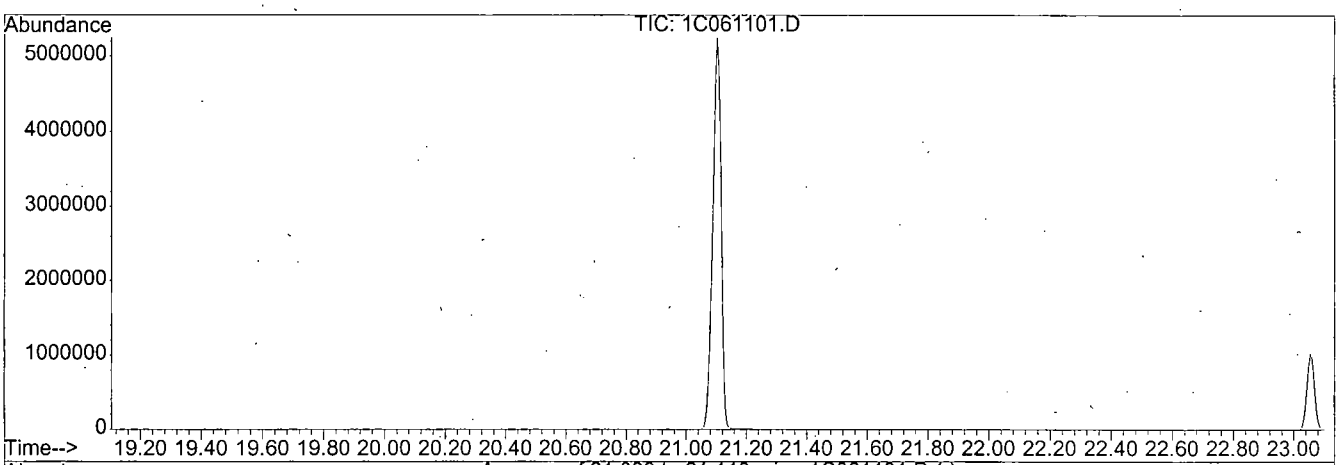
1-Value is % mass 69 2-Value is % mass 442

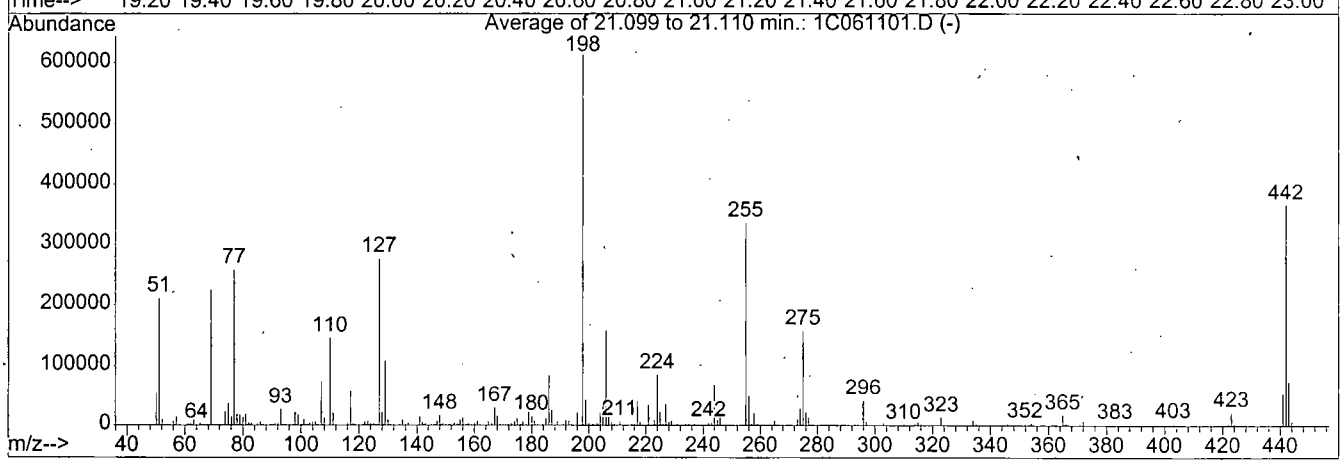
THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD0611A	CC 25 PPM @ INDIANA	1C061102.D	6/11/03	18:23
02	LAB BLANK0528	B305030-BLK1 @ INDIA	1C061103.D	6/11/03	19:11
03	LAB SPIKE0528	B305030-BS1 @ INDIAN	1C061104.D	6/11/03	19:58
04	LAB SPIKEDUP528	B305030-BSD1 @ INDIA	1C061105.D	6/11/03	20:45
05	0305007-08	0305007-08 @ INDIANA	1C061107.D	6/11/03	22:19
06	0305007-09	0305007-09 @ INDIANA	1C061108.D	6/11/03	23:07
07	0305007-10	0305007-10 @ INDIANA	1C061109.D	6/11/03	23:54
08	0305007-11	0305007-11 @ INDIANA	1C061110.D	6/12/03	0:41
09	0305007-12	0305007-12 @ INDIANA	1C061111.D	6/12/03	1:28
10	0305007-13	0305007-13 @ INDIANA	1C061112.D	6/12/03	2:16
11	0305007-14	0305007-14 @ INDIANA	1C061113.D	6/12/03	3:04
12	0305007-15	0305007-15 @ INDIANA	1C061114.D	6/12/03	3:52
13	0305007-16	0305007-16 @ INDIANA	1C061115.D	6/12/03	4:40

DFTPP for METHOD 625SAS

Data File : D:\BPARUCHU\DATA\1C061103\1C061101.D Vial: 1
Acq On : 11 Jun 2003 5:36 pm Operator: BP
Sample : DFTPP @ Indiana Harbor Inst : GCMS1
Misc : WO # 0305007 PAHs Multiplr: 1.00
MS Integration Params: rteint.p
Method : D:\BPARUCHU\METHODS\1C611261.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002





Spectrum Information: Average of 21.099 to 21.110 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	80	34.5	211755	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.01	100	36.9	226240	PASS
70	69	0.00	2	0.5	1203	PASS
127	198	25	75	45.1	277099	PASS
197	198	0.00	1	0.0	0	PASS
198	198	90	100	100.0	613803	PASS
199	198	5	9	6.9	42056	PASS
275	198	10	30	25.6	157248	PASS
365	198	0.75	100	2.8	17293	PASS
441	443	0.01	100	74.2	53645	PASS
442	198	40	110	59.6	365675	PASS
443	442	15	24	19.8	72312	PASS

1C061101.D 1C611261.M Thu Jun 12 07:17:33 2003 TEST

Evaluate Continuing Calibration Report

Data File : D:\BPARUCHU\DATA\1C061103\1C061102.D Vial: 2
Acq On : 11 Jun 2003 6:23 pm Operator: BP
Sample : CC 25 ppm @ Indiana Harbor Inst : GCMS1
Misc : WO # 0305007 PAHs Multiplr: 1.00
MS Integration Params: rteint.p

Method : D:\BPARUCHU\METHODS\1C611261.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002
Last Update : Tue Jun 24 13:09:16 2003
Response via : Single Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	60	0.00
2	M	2-Picoline	0.400	0.589	-47.2#	51	0.00
3	M	N-Nitrosomethylethylamine	0.406	0.396	2.5	58	0.00
4	M	Methyl methanesulfonate	0.331	0.313	5.4	56	0.00
5	S	2-Fluorophenol	0.682	0.6612	3.1	57	0.00
6	M	N-Nitrosodiethylamine	0.412	0.394	4.4	58	0.00
7	M	Ethyl methanesulfonate	0.607	0.578	4.8	58	0.00
8	M	Aniline	1.120	0.660	41.1#	83	0.00
9	M	Pentachloroethane	0.300	0.309	-3.0	59	0.00
10	S	Phenol-d5	0.894	0.847	5.3	52	0.00
11	M	Phenol	1.051	1.003	4.6	55	0.00
12	M	Bis(2-chloroethyl)ether	0.883	0.762	13.7	43#	0.00
13	M	2-Chlorophenol	0.833	0.789	5.3	57	0.00
14	M	1,3-Dichlorobenzene	0.895	0.900	-0.6	60	0.00
15	M	1,4-Dichlorobenzene	0.904	0.917	-1.4	60	0.00
16	M	1,2-Dichlorobenzene	0.847	0.891	-5.2	62	0.00
17	M	Benzyl alcohol	0.489	0.431	11.9	47#	0.00
18	M	bis(2-Chloroisopropyl)ether	0.295	0.292	1.0	58	0.00
19	M	2-Methylphenol	0.725	0.592	18.3	50	0.00
20	M	Acetophenone	1.100	1.077	2.1	58	0.00
21	M	o-Toluidine	0.884	1.103	-24.8	53	0.00
22	M	Hexachloroethane	0.298	0.335	-12.4	63	0.00
23	M	N-Nitroso-di-n-propylamine	0.594	0.566	4.7	52	0.00
24	M	3-&/or 4-Methylphenol	0.932	1.173	-25.9#	72	0.00
25	I	Naphthalene-d8	1.000	1.000	0.0	65	0.00
26	S	Nitrobenzene-d5	0.383	0.340	11.2	57	0.00
27	M	Nitrobenzene	0.209	0.178	14.8	57	0.00
28	M	N-Nitrosopiperidine	0.191	0.173	9.4	59	0.00
29	M	Isophorone	0.737	0.680	7.7	59	0.00
30	M	2-Nitrophenol	0.222	0.210	5.4	62	0.00
31	M	2,4-Dimethylphenol	0.384	0.361	6.0	61	0.00
32	M	o,o,o-Triethylphosphorothio	0.200	0.211	-5.5	67	0.00
33	M	Bis(2-chloroethoxy)methane	0.459	0.400	12.9	63	0.00
34	M	2,4-Dichlorophenol	0.310	0.292	5.8	61	0.00
35	M	1,2,4-Trichlorobenzene	0.337	0.338	-0.3	67	0.00
36	M	Naphthalene	1.061	1.024	3.5	63	0.00
37	M	Hexachloropropene	0.219	0.220	-0.5	63	0.00
38	M	4-Choroaniline	0.362	0.333	8.0	52	0.00
39	M	Hexachlorobutadiene	0.188	0.195	-3.7	67	0.00
40	M	N-Nitrosodi-n-butylamine	0.261	0.246	5.7	60	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\BPARUCHU\DATA\1C061103\1C061102.D Vial: 2
Acq On : 11 Jun 2003 6:23 pm Operator: BP
Sample : CC 25 ppm @ Indiana Harbor Inst : GCMS1
Misc : WO # 0305007 PAHs Multiplr: 1.00
MS Integration Params: rteint.p

Method : D:\BPARUCHU\METHODS\1C611261.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002
Last Update : Tue Jun 24 13:09:16 2003
Response via : Single Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
41	M	4-Chloro-3-methylphenol	0.315	0.305	3.2	60	0.00
42	M	Safrole	0.302	0.307	-1.7	67	0.00
43	M	2-Methylnaphthalene	0.732	0.724	1.1	64	0.00
44	I	Acenaphthene-d10	1.000	1.000	0.0	61	0.00
45	M	Hexachlorocyclopentadiene	0.301	0.269	10.6	52	0.00
46	M	1,2,4,5-Tetrachlorobenzene	0.507	0.562	-10.8	67	0.00
47	M	2,4,6-Trichlorophenol	0.341	0.356	-4.4	63	0.00
48	M	2,4,5-Trichlorophenol	0.362	0.359	0.8	58	0.00
49	S	2-Fluorobiphenyl	1.149	1.229	-7.0	64	0.00
50	M	Isosafrole	0.469	0.477	-1.7	63	0.00
51	M	2-Chloronaphthalene	1.049	1.119	-6.7	64	0.00
52	M	2-Nitroaniline	0.395	0.398	-0.8	60	0.00
53	M	1,4-Naphthoquinone	0.306	0.316	-3.3	60	0.00
54	M	Dimethylphthalate	1.248	1.318	-5.6	65	0.00
55	M	2,6-Dinitrotoluene	0.308	0.322	-4.5	63	0.00
56	M	1,3-Dinitrobenzene	0.240	0.234	2.5	59	0.00
57	M	Acenaphthylene	1.720	1.805	-4.9	63	0.00
58	M	3-Nitroaniline	0.309	0.241	22.0	50#	0.00
59	M	Acenaphthene	1.100	1.123	-2.1	62	0.00
60	M	2,4-Dinitrophenol	0.167	0.107	35.9#	34#	0.00
61	M	Pentachlorobenzene	0.468	0.486	-3.8	64	0.00
62	M	Dibenzofuran	1.524	1.578	-3.5	63	0.00
63	M	2,4-Dinitrotoluene	0.410	0.411	-0.2	62	0.00
64	M	4-Nitrophenol	0.153	0.066	56.9#	22#	0.00
65	M	Diethylphthalate	1.291	1.297	-0.5	62	0.00
66	M	Fluorene	1.268	1.243	2.0	59	0.00
67	M	4-Chlorophenylphenyl ether	0.620	0.627	-1.1	62	0.00
68	M	Thionazin	0.288	0.265	8.0	54	0.00
69	M	5-Nitro-o-toluidine	0.362	0.322	11.0	53	0.00
70	M	4-Nitroaniline	0.282	0.241	14.5	51	0.00
71	I	Phenanthrene-d10	1.000	1.000	0.0	64	0.00
72	M	2-Methyl-4,6-dinitrophenol	0.164	0.141	14.0	52	0.00
73	M	Diphenylamine	0.711	0.666	6.3	59	0.00
74	M	Azobenzene	0.858	0.749	12.7	55	0.00
75	S	2,4,6-Tribromophenol	0.099	0.100	-1.0	63	0.00
76	M	Sulfotep	0.139	0.140	-0.7	63	0.00
77	M	Phorate	0.067	0.070	-4.5	64	0.00
78	M	Diallate	0.279	0.261	6.5	56	0.00
79	M	4-Bromophenyl phenyl ether	0.221	0.210	5.0	62	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\BPARUCHU\DATA\1C061103\1C061102.D Vial: 2
Acq On : 11 Jun 2003 6:23 pm Operator: BP
Sample : CC 25 ppm @ Indiana Harbor Inst : GCMS1
Misc : WO # 0305007 PAHs Multiplr: 1.00
MS Integration Params: rteint.p

Method : D:\BPARUCHU\METHODS\1C611261.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002
Last Update : Tue Jun 24 13:09:16 2003
Response via : Single Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
80	M	Alpha-BHC	0.151	0.154	-2.0	63	0.00
81	M	Phenacetin	0.255	0.224	12.2	57	0.00
82	M	1,3,5-Trinitrobenzene	0.102	0.090	11.8	54	0.00
83	M	Hexachlorobenzene	0.234	0.227	3.0	61	0.00
84	M	Dimethoate	0.320	0.289	9.7	53	0.00
85	M	Beta-BHC	0.124	0.124	0.0	62	0.00
86	M	Pentachloronitrobenzene	0.041	0.041	0.0	62	0.00
87	M	4-Aminobiphenyl	0.510	0.425	16.7	51	0.00
88	M	Pentachlorophenol	0.129	0.128	0.8	53	0.00
89	M	Delta-BHC	0.127	0.130	-2.4	64	0.00
90	M	Pronamide	0.368	0.366	0.5	64	0.00
91	M	Phenanthrene	1.103	1.068	3.2	61	0.00
92	M	Dinoseb	0.216	0.203	6.0	55	0.00
93	M	Disulfoton	0.541	0.491	9.2	56	0.00
94	M	Anthracene	1.146	1.183	-3.2	65	0.00
95	M	Gamma-BHC	0.122	0.123	-0.8	62	0.00
96	M	Carbazole	1.061	1.003	5.5	57	0.00
97	M	Methyl Parathion	0.163	0.166	-1.8	60	0.00
98	M	Heptachlor	0.101	0.103	-2.0	62	0.00
99	M	Di-n-butylphthalate	1.258	1.305	-3.7	64	0.00
100	M	Aldrin	0.093	0.094	-1.1	62	0.00
101	M	Ethyl Parathion	0.130	0.133	-2.3	61	0.00
102	M	Isodrin	0.134	0.142	-6.0	67	0.00
103	M	Heptachlor Epoxide	0.062	0.066	-6.5	67	0.00
104	M	Fluoranthene	1.216	1.271	-4.5	66	0.00
105	I	Chrysene-d12	1.000	1.000	0.0	60	0.00
106	M	Pyrene	1.238	1.307	-5.6	65	0.00
107	M	p,p'-DDE	0.262	0.284	-8.4	67	0.00
108	S	Terphenyl-d14	0.838	0.895	-6.8	65	0.00
109	M	Dieldrin	0.212	0.200	5.7	56	0.00
110	M	p-Dimethylaminoazobenzene	0.295	0.302	-2.4	62	0.00
111	M	Chlorobenzilate	0.394	0.407	-3.3	63	0.00
112	M	Endrin	0.047	0.050	-6.4	62	0.00
113	M	p,p'-DDD	0.449	0.498	-10.9	66	0.00
114	M	Endrin Aldehyde	0.004	0.004	0.0	62	0.00
115	M	Famphur	0.141	0.109	22.7	59	0.00
116	M	Butylbenzylphthalate	0.610	0.630	-3.3	62	0.00
117	M	Endosulfan Sulfate	0.378	0.389	-2.9	60	0.00
118	M	2-Acetylaminofluorene	0.541	0.532	1.7	57	0.00
119	M	Endrin Ketone	0.679	0.739	-8.8	63	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\BPARUCHU\DATA\1C061103\1C061102.D Vial: 2
Acq On : 11 Jun 2003 6:23 pm Operator: BP
Sample : CC 25 ppm @ Indiana Harbor Inst : GCMS1
Misc : WO # 0305007 PAHs Multiplr: 1.00
MS Integration Params: rteint.p

Method : D:\BPARUCHU\METHODS\1C611261.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002
Last Update : Tue Jun 24 13:09:16 2003
Response via : Single Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
120	M	Methoxychlor	0.679	0.739	-8.8	63	0.00
121	M	Benz(a)anthracene	1.213	1.229	-1.3	61	0.00
122	M	3,3'-Dichlorobenzidine	0.296	0.275	7.1	54	0.00
123	M	Bis(2-ethylhexyl)phthalate	0.831	0.888	-6.9	62	0.00
124	M	Chrysene	1.053	1.079	-2.5	61	0.00
125	I	Perylene-d12	1.000	1.000	0.0	60	0.00
126	M	Di-n-octylphthalate	1.712	1.829	-6.8	62	0.00
127	M	7,12-Dimethylbenz(a)anthrac	0.703	0.771	-9.7	67	0.00
128	M	Benzo[b]fluoranthene	1.626	1.623	0.2	60	0.00
129	M	Benzo(k)fluoranthene	1.314	1.438	-9.4	69	0.00
130	M	Benzo(a)pyrene	1.403	1.471	-4.8	63	0.00
131	M	3-Methylcholanthrene	0.802	0.674	16.0	50	0.00
132	M	Indeno[1,2,3,cd]pyrene	1.724	1.360	21.1	48#	0.00
133	M	Dibenz(a,h)anthracene	1.432	1.115	22.1	47#	0.00
134	M	Benzo(g,h,i)perylene	1.422	1.057	25.7#	45#	0.00

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

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Indiana Harbor Contract: ML-10C

Lab Code: USEPA-R5 Case No.: 0305007 SAS No.: GCMS SDG No.:

Lab File ID (Standard): 1C061102.D Date Analyzed: 6/11/03

Instrument ID: Time Analyzed: 18:23

		IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
	12 HOUR STD	2898518	8.80	6983395	11.86	4268078	16.35
	UPPER LIMIT	5797036	9.30	13966790	12.36	8536156	16.85
	LOWER LIMIT	1449259	8.30	3491698	11.36	2134039	15.85
	EPA SAMPLE NO.						
01	LAB BLANK0528	2951773	8.80	6589785	11.85	3765890	16.34
02	LAB SPIKE0528	3175021	8.81	6928740	11.87	4194251	16.36
03	LAB SPIKEDUP5	3103765	8.81	6603163	11.87	3756149	16.36
04	0305007-08	2822951	8.80	5993138	11.85	3885433	16.36
05	0305007-09	2684715	8.79	5819666	11.85	3790843	16.35
06	0305007-10	2448961	8.80	5483870	11.85	3920588	16.36
07	0305007-11	2642187	8.80	6130917	11.85	3896763	16.36
08	0305007-12	2757433	8.80	6121488	11.85	3948665	16.36
09	0305007-13	2798165	8.80	7199386	11.85	4701298	16.36
10	0305007-14	3056942	8.80	7330399	11.86	4750083	16.37
11	0305007-15	3691258	8.80	8232257	11.86	5121312	16.37
12	0305007-16	3293924	8.80	7247603	11.86	4734230	16.37

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8
IS3 = Acenaphthene-d10
IS4 = Phenanthrene-d10
IS5 = Chrysene-d12
IS6 = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.
* Values outside of contract required QC limits

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Indiana Harbor Contract: ML-10C

Lab Code: USEPA-R5 Case No.: 0305007 SAS No.: GCMS SDG No.:

Lab File ID (Standard): 1C061102.D Date Analyzed: 06/11/03

Instrument ID: Time Analyzed: 18:23

		IS4 AREA #	RT #	IS5 AREA #	RT #	IS6 AREA #	RT #
	12 HOUR STD	6913169	20.21	6885950	26.22	5370987	28.97
	UPPER LIMIT	13826338	19.71	13771900	25.72	10741974	28.47
	LOWER LIMIT	3456585	20.71	3442975	26.72	2685494	29.47
	EPA SAMPLE NO.						
01	LAB BLANK05	5774263	20.19	6535085	26.20	4403745	28.95
02	LAB SPIKE05	6116254	20.23	5938701	26.23	4729685	28.97
03	LAB SPIKEDU	6206151	20.23	5836472	26.24	4799281	28.97
04	0305007-08	6361294	20.22	6434710	26.27	3843179	29.02
05	0305007-09	6278081	20.22	6110666	26.26	4370170	29.02
06	0305007-10	5540259	20.22	6062481	26.28	3495249	29.04
07	0305007-11	6196452	20.23	6348585	26.27	4690093	29.03
08	0305007-12	6375736	20.23	7151283	26.29	4368058	29.08
09	0305007-13	6546441	20.23	6180193	26.26	4543771	29.02
10	0305007-14	7360047	20.23	6921482	26.25	4992940	29.01
11	0305007-15	7695722	20.24	8267415	26.29	5442394	29.06
12	0305007-16	7214590	20.24	6247146	26.32	4671144	29.11

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8
IS3 = Acenaphthene-d10
IS4 = Phenanthrene-d10
IS5 = Chrysene-d12
IS6 = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.
* Values outside of contract required QC limits

4B

EPA SAMPLE NO.

SEMIVOLATILE METHOD BLANK SUMMARY

Lab Blank0528

Lab Name: Indiana Harbor Contract: ML-10C

Lab Code: USEPA-R5 Case No.: 0305007 SAS No.: GCMS SDG No.:

Lab File ID: 1C061103.D Lab Sample ID: B305030-BLK1 @ I

Instrument ID: Date Extracted: 5/28/03

Matrix: (soil/water) SOIL Date Analyzed: 6/11/03

Level: (low/med) LOW Time Analyzed: 19:11

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	0305007-17	0305007-17 @ INDIANA	1C061118.D	6/12/03
02	0305007-18	0305007-18 @ INDIANA	1C061119.D	6/12/03
03	0305007-19	0305007-19 @ INDIANA	1C061120.D	6/12/03
04	0305007-20	0305007-20 @ INDIANA	1C061121.D	6/12/03
05	0305007-21	0305007-21 @ INDIANA	1C061122.D	6/12/03
06	0305007-22	0305007-22 @ INDIANA	1C061123.D	6/12/03
07	0305007-23	0305007-23 @ INDIANA	1C061124.D	6/12/03
08	0305007-24	0305007-24 @ INDIANA	1C061125.D	6/12/03
09	0305007-18D1	0305007-18D @ INDIANA	1C061126.D	6/12/03
10	0305007-20D1	0305007-20D @ INDIANA	1C061127.D	6/12/03
11	0305007-24D1	0305007-24D @ INDIANA	1C061128.D	6/12/03

COMMENTS:

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Indiana Harbor Contract: ML-10C

Lab Code: USEPA-R5 Case No.: 0305007 SAS No.: GCMS SDG No.:

Lab File ID: 1C061116.D DFTPP Injection Date: 6/12/03

Instrument ID: DFTPP Injection Time: 5:28

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	31.7
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 Relative abundance	33.9
70	Less than 2.0% of mass 69	0.2 (0.5)1
127	25.0 - 75.0% of mass 198	44.0
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 30.0% of mass 198	25.3
365	Greater than 0.75% of mass 198	2.7
441	Present, but less than mass 443	9.1
442	40.0 - 110.0% of mass 198	62.4
443	15.0 - 24.0% of mass 442	12.2 (19.5)2

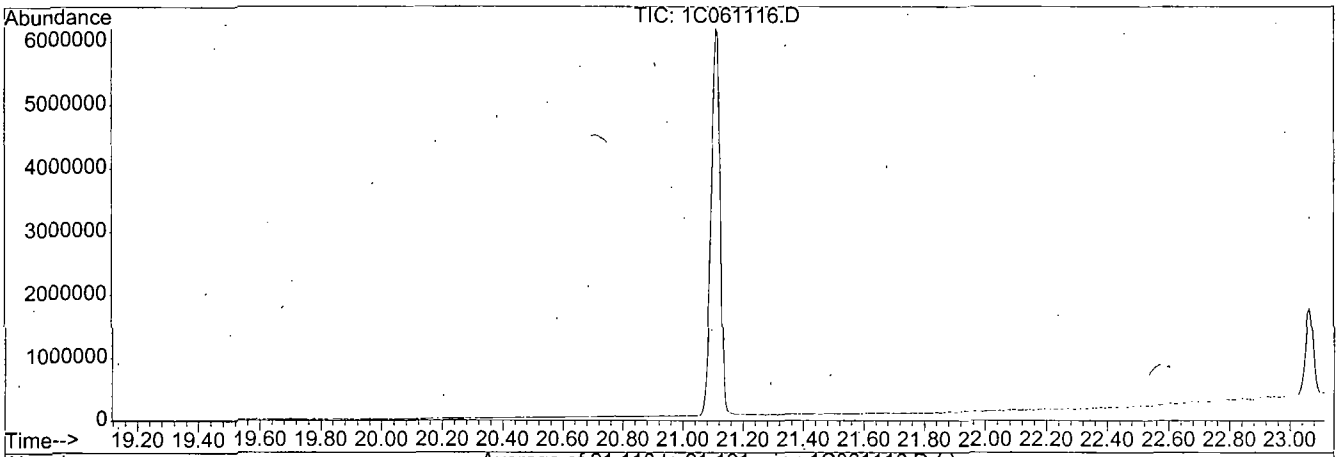
1-Value is % mass 69 2-Value is % mass 442

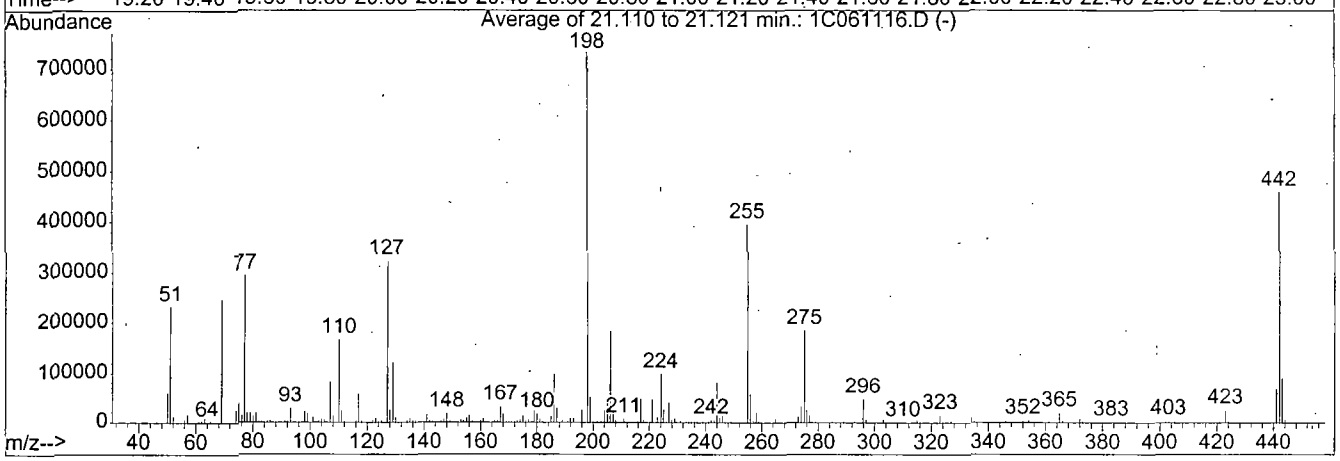
THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD0611B	CC2 @ INDIANA HARBO	1C061117.D	6/12/03	6:16
02	0305007-17	0305007-17 @ INDIANA	1C061118.D	6/12/03	7:04
03	0305007-18	0305007-18 @ INDIANA	1C061119.D	6/12/03	7:52
04	0305007-19	0305007-19 @ INDIANA	1C061120.D	6/12/03	8:41
05	0305007-20	0305007-20 @ INDIANA	1C061121.D	6/12/03	9:29
06	0305007-21	0305007-21 @ INDIANA	1C061122.D	6/12/03	10:18
07	0305007-22	0305007-22 @ INDIANA	1C061123.D	6/12/03	11:07
08	0305007-23	0305007-23 @ INDIANA	1C061124.D	6/12/03	11:55
09	0305007-24	0305007-24 @ INDIANA	1C061125.D	6/12/03	12:44
10	0305007-18D1	0305007-18D @ INDIANA	1C061126.D	6/12/03	13:33
11	0305007-20D1	0305007-20D @ INDIANA	1C061127.D	6/12/03	14:20
12	0305007-24D1	0305007-24D @ INDIANA	1C061128.D	6/12/03	15:08

DFTPP for METHOD 625SAS

Data File : D:\BPARUCHU\DATA\1C061103\1C061116.D Vial: 1
Acq On : 12 Jun 2003 5:28 am Operator: BP
Sample : DFTPP @ Indiana Harbor Inst : GCMS1
Misc : WO # 0305007 PAHs Multiplr: 1.00
MS Integration Params: rteint.p
Method : D:\BPARUCHU\METHODS\1C611262.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002





Spectrum Information: Average of 21.110 to 21.121 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	80	31.7	233003	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.01	100	33.9	249357	PASS
70	69	0.00	2	0.5	1315	PASS
127	198	25	75	44.0	323179	PASS
197	198	0.00	1	0.0	0	PASS
198	198	90	100	100.0	734869	PASS
199	198	5	9	6.8	49960	PASS
275	198	10	30	25.3	185685	PASS
365	198	0.75	100	2.7	19549	PASS
441	443	0.01	100	74.5	66704	PASS
442	198	40	110	62.4	458709	PASS
443	442	15	24	19.5	89488	PASS

1C061116.D 1C611262.M Tue Jul 15 16:39:40 2003 TEST

4B

EPA SAMPLE NO.

SEMIVOLATILE METHOD BLANK SUMMARY

Lab Blank0528

Lab Name: Indiana Harbor Contract: ML-10C

Lab Code: USEPA-R5 Case No.: 0305007 SAS No.: GCMS SDG No.:

Lab File ID: 1C061103.D Lab Sample ID: B305030-BLK1 @ I

Instrument ID: Date Extracted: 5/28/03

Matrix: (soil/water) SOIL Date Analyzed: 6/11/03

Level: (low/med) LOW Time Analyzed: 19:11

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	0305007-25	0305007-025 @ INDIANA	1C061203.D	6/12/03
02	0305007-25MS	B305030-MS1 @ INDIAN	1C061204.D	6/12/03
03	0305007-25MD	B305030-MSD1 @ INDIA	1C061205.D	6/12/03
04	0305007-26	0305007-026 @ INDIANA	1C061206.D	6/12/03
05	0305007-27	0305007-027 @ INDIANA	1C061207.D	6/12/03
06	0305007-28	0305007-028 @ INDIANA	1C061208.D	6/12/03
07	0305007-29	0305007-029 @ INDIANA	1C061209.D	6/12/03
08	0305007-30	0305007-030 @ INDIANA	1C061210.D	6/13/03
09	0305007-31	0305007-031 @ INDIANA	1C061211.D	6/13/03
10	0305007-32	0305007-032 @ INDIANA	1C061212.D	6/13/03
11	0305007-33	0305007-033 @ INDIANA	1C061213.D	6/13/03
12	0305007-38	0305007-038 @ INDIANA	1C061214.D	6/13/03
13	0305007-39	0305007-039 @ INDIANA	1C061215.D	6/13/03

COMMENTS:

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Indiana Harbor Contract: ML-10C

Lab Code: USEPA-R5 Case No.: 0305007 SAS No.: GCMS SDG No.:

Lab File ID: 1C061201.D DFTPP Injection Date: 6/12/03

Instrument ID: DFTPP Injection Time: 17:18

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	39.7
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 Relative abundance	40.7
70	Less than 2.0% of mass 69	0.2 (0.5)1
127	25.0 - 75.0% of mass 198	49.5
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 30.0% of mass 198	26.7
365	Greater than 0.75% of mass 198	2.6
441	Present, but less than mass 443	10.3
442	40.0 - 110.0% of mass 198	68.8
443	15.0 - 24.0% of mass 442	13.4 (19.4)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD0612A	CC 25 PPM @ INDIANA	1C061202.D	6/12/03	18:05
02	0305007-25	0305007-025 @ INDIANA	1C061203.D	6/12/03	18:52
03	0305007-25MS	B305030-MS1 @ INDIAN	1C061204.D	6/12/03	19:39
04	0305007-25MD	B305030-MSD1 @ INDIA	1C061205.D	6/12/03	20:25
05	0305007-26	0305007-026 @ INDIANA	1C061206.D	6/12/03	21:12
06	0305007-27	0305007-027 @ INDIANA	1C061207.D	6/12/03	21:59
07	0305007-28	0305007-028 @ INDIANA	1C061208.D	6/12/03	22:45
08	0305007-29	0305007-029 @ INDIANA	1C061209.D	6/12/03	23:32
09	0305007-30	0305007-030 @ INDIANA	1C061210.D	6/13/03	0:19
10	0305007-31	0305007-031 @ INDIANA	1C061211.D	6/13/03	1:07
11	0305007-32	0305007-032 @ INDIANA	1C061212.D	6/13/03	1:54
12	0305007-33	0305007-033 @ INDIANA	1C061213.D	6/13/03	2:42
13	0305007-38	0305007-038 @ INDIANA	1C061214.D	6/13/03	3:29
14	0305007-39	0305007-039 @ INDIANA	1C061215.D	6/13/03	4:17

Evaluate Continuing Calibration Report

Data File : D:\BPARUCHU\DATA\1C061103\1C061117.D Vial: 2
Acq On : 12 Jun 2003 6:16 am Operator: BP
Sample : CC2 @ Indiana Harbor Inst : GCMS1
Misc : WO # 0305007 PAHs Multiplr: 1.00
MS Integration Params: rteint.p

Method : D:\BPARUCHU\METHODS\1C611262.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002
Last Update : Wed Jun 25 13:39:39 2003
Response via : Single Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	80	0.00
2	M	2-Picoline	0.400	0.682	-70.5#	78	0.00
3	M	N-Nitrosomethylethylamine	0.406	0.371	8.6	73	0.00
4	M	Methyl methanesulfonate	0.331	0.297	10.3	71	0.00
5	S	2-Fluorophenol	0.682	0.692	-1.5	79	0.00
6	M	N-Nitrosodiethylamine	0.412	0.364	11.7	72	0.00
7	M	Ethyl methanesulfonate	0.607	0.550	9.4	73	0.00
8	M	Aniline	1.120	0.977	12.8	164#	0.00
9	M	Pentachloroethane	0.300	0.311	-3.7	80	0.00
10	S	Phenol-d5	0.894	0.848	5.1	69	0.00
11	M	Phenol	1.051	1.025	2.5	75	0.00
12	M	Bis(2-chloroethyl)ether	0.883	0.867	1.8	65	0.00
13	M	2-Chlorophenol	0.833	0.821	1.4	79	0.00
14	M	1,3-Dichlorobenzene	0.895	0.943	-5.4	84	0.00
15	M	1,4-Dichlorobenzene	0.904	0.932	-3.1	82	0.00
16	M	1,2-Dichlorobenzene	0.847	0.896	-5.8	83	0.00
17	M	Benzyl alcohol	0.489	0.480	1.8	70	0.00
18	M	bis(2-Chloroisopropyl)ether	0.295	0.293	0.7	78	0.00
19	M	2-Methylphenol	0.725	0.581	19.9	66	0.00
20	M	Acetophenone	1.100	1.064	3.3	76	0.00
21	M	o-Toluidine	0.884	1.134	-28.3#	72	0.00
22	M	Hexachloroethane	0.298	0.339	-13.8	86	0.00
23	M	N-Nitroso-di-n-propylamine	0.594	0.575	3.2	71	0.00
24	M	3-&/or 4-Methylphenol	0.932	1.170	-25.5#	96	0.00
25	I	Naphthalene-d8	1.000	1.000	0.0	79	0.00
26	S	Nitrobenzene-d5	0.383	0.364	5.0	73	0.00
27	M	Nitrobenzene	0.209	0.201	3.8	77	0.00
28	M	N-Nitrosopiperidine	0.191	0.187	2.1	77	0.00
29	M	Isophorone	0.737	0.728	1.2	76	0.00
30	M	2-Nitrophenol	0.222	0.226	-1.8	80	0.00
31	M	2,4-Dimethylphenol	0.384	0.373	2.9	75	0.00
32	M	o,o,o-Triethylphosphorothio	0.200	0.215	-7.5	82	0.00
33	M	Bis(2-chloroethoxy)methane	0.459	0.415	9.6	78	0.00
34	M	2,4-Dichlorophenol	0.310	0.306	1.3	77	0.00
35	M	1,2,4-Trichlorobenzene	0.337	0.357	-5.9	85	0.00
36	M	Naphthalene	1.061	1.051	0.9	78	0.00
37	M	Hexachloropropene	0.219	0.220	-0.5	76	0.00
38	M	4-Choroaniline	0.362	0.373	-3.0	69	0.00
39	M	Hexachlorobutadiene	0.188	0.205	-9.0	85	0.00
40	M	N-Nitrosodi-n-butylamine	0.261	0.245	6.1	72	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\BPARUCHU\DATA\1C061103\1C061117.D Vial: 2
Acq On : 12 Jun 2003 6:16 am Operator: BP
Sample : CC2 @ Indiana Harbor Inst : GCMS1
Misc : WO # 0305007 PAHs Multiplr: 1.00
MS Integration Params: rteint.p

Method : D:\BPARUCHU\METHODS\1C611262.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002
Last Update : Wed Jun 25 13:39:39 2003
Response via : Single Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
41	M	4-Chloro-3-methylphenol	0.315	0.310	1.6	74	0.00
42	M	Safrole	0.302	0.307	-1.7	80	0.00
43	M	2-Methylnaphthalene	0.732	0.743	-1.5	79	0.00
44	I	Acenaphthene-d10	1.000	1.000	0.0	69	0.00
45	M	Hexachlorocyclopentadiene	0.301	0.263	12.6	57	0.00
46	M	1,2,4,5-Tetrachlorobenzene	0.507	0.609	-20.1	82	0.00
47	M	2,4,6-Trichlorophenol	0.341	0.393	-15.2	78	0.00
48	M	2,4,5-Trichlorophenol	0.362	0.401	-10.8	74	0.00
49	S	2-Fluorobiphenyl	1.149	1.350	-17.5	79	0.00
50	M	Isosafrole	0.469	0.413	11.9	61	0.00
51	M	2-Chloronaphthalene	1.049	0.983	6.3	64	0.00
52	M	2-Nitroaniline	0.395	0.349	11.6	59	0.00
53	M	1,4-Naphthoquinone	0.306	0.271	11.4	58	0.00
54	M	Dimethylphthalate	1.248	1.243	0.4	69	0.00
55	M	2,6-Dinitrotoluene	0.308	0.320	-3.9	71	0.00
56	M	1,3-Dinitrobenzene	0.240	0.225	6.2	64	0.00
57	M	Acenaphthylene	1.720	2.014	-17.1	79	0.00
58	M	3-Nitroaniline	0.309	0.273	11.7	63	0.00
59	M	Acenaphthene	1.100	1.064	3.3	67	0.00
60	M	2,4-Dinitrophenol	0.167	0.130	22.2	46#	0.00
61	M	Pentachlorobenzene	0.468	0.551	-17.7	82	0.00
62	M	Dibenzofuran	1.524	1.799	-18.0	81	0.00
63	M	2,4-Dinitrotoluene	0.410	0.475	-15.9	81	0.00
64	M	4-Nitrophenol	0.153	0.089	41.8#	34#	0.00
65	M	Diethylphthalate	1.291	1.183	8.4	63	0.00
66	M	Fluorene	1.268	1.198	5.5	64	0.00
67	M	4-Chlorophenylphenyl ether	0.620	0.598	3.5	66	0.00
68	M	Thionazin	0.288	0.261	9.4	60	0.00
69	M	5-Nitro-o-toluidine	0.362	0.320	11.6	59	0.00
70	M	4-Nitroaniline	0.282	0.235	16.7	56	0.00
71	I	Phenanthrene-d10	1.000	1.000	0.0	71	0.00
72	M	2-Methyl-4,6-dinitrophenol	0.164	0.136	17.1	56	0.00
73	M	Diphenylamine	0.711	0.660	7.2	66	0.00
74	M	Azobenzene	0.858	0.729	15.0	60	0.00
75	S	2,4,6-Tribromophenol	0.099	0.097	2.0	69	0.00
76	M	Sulfotep	0.139	0.136	2.2	69	0.00
77	M	Phorate	0.067	0.067	0.0	69	0.00
78	M	Diallate	0.279	0.248	11.1	60	0.00
79	M	4-Bromophenyl phenyl ether	0.221	0.198	10.4	65	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\BPARUCHU\DATA\1C061103\1C061117.D Vial: 2
Acq On : 12 Jun 2003 6:16 am Operator: BP
Sample : CC2 @ Indiana Harbor Inst : GCMS1
Misc : WO # 0305007 PAHs Multiplr: 1.00
MS Integration Params: rteint.p

Method : D:\BPARUCHU\METHODS\1C611262.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002
Last Update : Wed Jun 25 13:39:39 2003
Response via : Single Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
80	M	Alpha-BHC	0.151	0.148	2.0	68	0.00
81	M	Phenacetin	0.255	0.214	16.1	62	0.00
82	M	1,3,5-Trinitrobenzene	0.102	0.080	21.6	54	0.00
83	M	Hexachlorobenzene	0.234	0.219	6.4	66	0.00
84	M	Dimethoate	0.320	0.282	11.9	58	0.00
85	M	Beta-BHC	0.124	0.129	-4.0	72	0.00
86	M	Pentachloronitrobenzene	0.041	0.043	-4.9	73	0.00
87	M	4-Aminobiphenyl	0.510	0.449	12.0	61	0.00
88	M	Pentachlorophenol	0.129	0.129	0.0	60	0.00
89	M	Delta-BHC	0.127	0.134	-5.5	74	0.00
90	M	Pronamide	0.368	0.377	-2.4	74	0.00
91	M	Phenanthrene	1.103	1.110	-0.6	72	0.00
92	M	Dinoseb	0.216	0.210	2.8	64	0.00
93	M	Disulfoton	0.541	0.517	4.4	66	0.00
94	M	Anthracene	1.146	1.179	-2.9	73	0.00
95	M	Gamma-BHC	0.122	0.126	-3.3	72	0.00
96	M	Carbazole	1.061	1.003	5.5	64	0.00
97	M	Methyl Parathion	0.163	0.164	-0.6	67	0.00
98	M	Heptachlor	0.101	0.101	0.0	69	0.00
99	M	Di-n-butylphthalate	1.258	1.236	1.7	68	0.00
100	M	Aldrin	0.093	0.094	-1.1	70	0.00
101	M	Ethyl Parathion	0.130	0.134	-3.1	70	0.00
102	M	Isodrin	0.134	0.145	-8.2	76	0.00
103	M	Heptachlor Epoxide	0.062	0.078	-25.8#	88	0.00
104	M	Fluoranthene	1.216	1.491	-22.6	86	0.00
105	I	Chrysene-d12	1.000	1.000	0.0	77	0.00
106	M	Pyrene	1.238	1.260	-1.8	80	0.00
107	M	p,p'-DDE	0.262	0.292	-11.5	87	0.00
108	S	Terphenyl-d14	0.838	0.933	-11.3	86	0.00
109	M	Dieldrin	0.212	0.204	3.8	72	0.00
110	M	p-Dimethylaminoazobenzene	0.295	0.316	-7.1	83	0.00
111	M	Chlorobenzilate	0.394	0.425	-7.9	84	0.00
112	M	Endrin	0.047	0.050	-6.4	79	0.00
113	M	p,p'-DDD	0.449	0.508	-13.1	86	0.00
114	M	Endrin Aldehyde	0.004	0.003	25.0	76	0.00
115	M	Famphur	0.141	0.095	32.6#	65	0.00
116	M	Butylbenzylphthalate	0.610	0.649	-6.4	81	0.00
117	M	Endosulfan Sulfate	0.378	0.405	-7.1	80	0.00
118	M	2-Acetylaminofluorene	0.541	0.562	-3.9	77	0.00
119	M	Endrin Ketone	0.679	0.764	-12.5	83	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\BPARUCHU\DATA\1C061103\1C061117.D Vial: 2
Acq On : 12 Jun 2003 6:16 am Operator: BP
Sample : CC2 @ Indiana Harbor Inst : GCMS1
Misc : WO # 0305007 PAHs Multiplr: 1.00
MS Integration Params: rteint.p

Method : D:\BPARUCHU\METHODS\1C611262.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002
Last Update : Wed Jun 25 13:39:39 2003
Response via : Single Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
120	M	Methoxychlor	0.679	0.764	-12.5	83	0.00
121	M	Benz(a)anthracene	1.213	1.267	-4.5	80	0.00
122	M	3,3'-Dichlorobenzidine	0.296	0.267	9.8	67	0.00
123	M	Bis(2-ethylhexyl)phthalate	0.831	0.891	-7.2	79	0.00
124	M	Chrysene	1.053	1.088	-3.3	79	0.00
125	I	Perylene-d12	1.000	1.000	0.0	74	0.00
126	M	Di-n-octylphthalate	1.712	1.927	-12.6	81	0.00
127	M	7,12-Dimethylbenz(a)anthrac	0.703	0.795	-13.1	85	0.00
128	M	Benzo[b]fluoranthene	1.626	1.669	-2.6	75	0.00
129	M	Benzo(k)fluoranthene	1.314	1.450	-10.4	86	0.00
130	M	Benzo(a)pyrene	1.403	1.469	-4.7	77	0.00
131	M	3-Methylcholanthrene	0.802	0.715	10.8	65	0.00
132	M	Indeno[1,2,3,cd]pyrene	1.724	1.396	19.0	60	0.00
133	M	Dibenz(a,h)anthracene	1.432	1.111	22.4	57	0.00
134	M	Benzo(g,h,i)perylene	1.422	1.099	22.7	57	0.00

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Indiana Harbor Contract: ML-10C

Lab Code: USEPA-R5 Case No.: 0305007 SAS No.: GCMS SDG No.:

Lab File ID (Standard): 1C061117.D Date Analyzed: 6/12/03

Instrument ID: Time Analyzed: 6:16

		IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
	12 HOUR STD	3873344	8.81	8401881	11.87	4809795	16.36
	UPPER LIMIT	7746688	9.31	16803762	12.37	9619590	16.86
	LOWER LIMIT	1936672	8.31	4200941	11.37	2404898	15.86
	EPA SAMPLE NO.						
01	0305007-17	3687219	8.80	7909919	11.86	5144085	16.35
02	0305007-18	3775946	8.80	7952087	11.86	4825202	16.37
03	0305007-19	3482079	8.80	6944784	11.87	4389949	16.40
04	0305007-20	3255082	8.80	6245215	11.86	4341725	16.40
05	0305007-21	3046784	8.80	6840949	11.86	4502349	16.38
06	0305007-22	3192080	8.81	7254245	11.86	4783634	16.37
07	0305007-23	3192116	8.80	7144859	11.86	4217712	16.37
08	0305007-24	3500497	8.80	7893759	11.87	5050835	16.38
09	0305007-18D1	2898402	8.81	6827192	11.87	4931381	16.37
10	0305007-20D1	2944696	8.81	7275761	11.87	4905616	16.38
11	0305007-24D1	3196739	8.80	7397178	11.86	5225603	16.37

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8
IS3 = Acenaphthene-d10
IS4 = Phenanthrene-d10
IS5 = Chrysene-d12
IS6 = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.
* Values outside of contract required QC limits

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Indiana Harbor Contract: ML-10C

Lab Code: USEPA-R5 Case No.: 0305007 SAS No.: GCMS SDG No.:

Lab File ID (Standard): 1C061117.D Date Analyzed: 06/12/03

Instrument ID: Time Analyzed: 06:16

		IS4 AREA #	RT #	IS5 AREA #	RT #	IS6 AREA #	RT #
	12 HOUR STD	7769691	20.23	8779295	26.24	6574795	28.98
	UPPER LIMIT	15539382	19.73	17558590	25.74	13149590	28.48
	LOWER LIMIT	3884846	20.73	4389648	26.74	3287398	29.48
	EPA SAMPLE NO.						
01	0305007-17	8476939	20.22	7731513	26.28	5077921	29.09
02	0305007-18	7138459	20.26	6055146	26.35	4935869	29.14
03	0305007-19	6449339	20.27	7114532	26.27	4868393	29.04
04	0305007-20	6412387	20.30	3837480 *	26.39	4658429	29.20
05	0305007-21	6472290	20.26	7084965	26.26	4731032	29.03
06	0305007-22	7835734	20.25	7807923	26.32	5887928	29.14
07	0305007-23	6776098	20.25	7090237	26.31	4147951	29.08
08	0305007-24	7464594	20.27	5686605	26.36	4250409	29.15
09	0305007-18D1	7613128	20.25	7691587	26.30	4796649	29.08
10	0305007-20D1	7559749	20.25	8336231	26.29	5593905	29.06
11	0305007-24D1	8101685	20.25	8099962	26.31	5218442	29.09

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8
IS3 = Acenaphthene-d10
IS4 = Phenanthrene-d10
IS5 = Chrysene-d12
IS6 = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.
* Values outside of contract required QC limits . USE 007-20D1 results for the affected cmpds. ∴ no data qualification for PAHs. Babu 7/15/03

L7

Evaluate Continuing Calibration Report

Data File : D:\BPARUCHU\DATA\1C061203\1C061202.D Vial: 2
Acq On : 12 Jun 2003 6:05 pm Operator: BP
Sample : CC 25 PPM @ INDIANA HARBOR Inst : GCMS1
Misc : WO # 0305007 PAHs Multiplr: 1.00
MS Integration Params: rteint.p

Method : D:\BPARUCHU\METHODS\1C612261.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002
Last Update : Tue Jul 15 11:47:50 2003
Response via : Single Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	63	0.00
2	M	2-Picoline	0.400	0.758	-89.5#	69	0.00
3	M	N-Nitrosomethylethylamine	0.406	0.365	10.1	56	0.00
4	M	Methyl methanesulfonate	0.331	0.318	3.9	60	0.00
5	S	2-Fluorophenol	0.682	0.6974	-2.2	63	0.00
6	M	N-Nitrosodiethylamine	0.412	0.371	10.0	58	0.00
7	M	Ethyl methanesulfonate	0.607	0.574	5.4	60	0.00
8	M	Aniline	1.120	1.051	6.2	139	0.00
9	M	Pentachloroethane	0.300	0.302	-0.7	61	0.00
10	S	Phenol-d5	0.894	0.871	2.6	56	0.00
11	M	Phenol	1.051	1.043	0.8	60	0.00
12	M	Bis(2-chloroethyl)ether	0.883	0.833	5.7	49#	0.00
13	M	2-Chlorophenol	0.833	0.807	3.1	62	0.00
14	M	1,3-Dichlorobenzene	0.895	0.875	2.2	61	0.00
15	M	1,4-Dichlorobenzene	0.904	0.890	1.5	61	0.00
16	M	1,2-Dichlorobenzene	0.847	0.844	0.4	62	0.00
17	M	Benzyl alcohol	0.489	0.469	4.1	54	0.00
18	M	bis(2-Chloroisopropyl)ether	0.295	0.287	2.7	60	0.00
19	M	2-Methylphenol	0.725	0.724	0.1	65	0.00
20	M	Acetophenone	1.100	1.080	1.8	61	0.00
21	M	o-Toluidine	0.884	1.133	-28.2#	57	0.00
22	M	Hexachloroethane	0.298	0.313	-5.0	62	0.00
23	M	N-Nitroso-di-n-propylamine	0.594	0.574	3.4	56	0.00
24	M	3-&/or 4-Methylphenol	0.932	1.175	-26.1#	76	0.00
25	I	Naphthalene-d8	1.000	1.000	0.0	64	0.00
26	S	Nitrobenzene-d5	0.383	0.369	3.7	61	0.00
27	M	Nitrobenzene	0.209	0.185	11.5	58	0.00
28	M	N-Nitrosopiperidine	0.191	0.170	11.0	57	0.00
29	M	Isophorone	0.737	0.712	3.4	61	0.00
30	M	2-Nitrophenol	0.222	0.202	9.0	59	0.00
31	M	2,4-Dimethylphenol	0.384	0.360	6.3	60	0.00
32	M	o,o,o-Triethylphosphorothio	0.200	0.191	4.5	60	0.00
33	M	Bis(2-chloroethoxy)methane	0.459	0.404	12.0	63	0.00
34	M	2,4-Dichlorophenol	0.310	0.270	12.9	55	0.00
35	M	1,2,4-Trichlorobenzene	0.337	0.320	5.0	63	0.00
36	M	Naphthalene	1.061	1.018	4.1	62	0.00
37	M	Hexachloropropene	0.219	0.196	10.5	55	0.00
38	M	4-Choroaniline	0.362	0.348	3.9	53	0.00
39	M	Hexachlorobutadiene	0.188	0.185	1.6	63	0.00
40	M	N-Nitrosodi-n-butylamine	0.261	0.253	3.1	61	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\BPARUCHU\DATA\1C061203\1C061202.D Vial: 2
Acq On : 12 Jun 2003 6:05 pm Operator: BP
Sample : CC 25 PPM @ INDIANA HARBOR Inst : GCMS1
Misc : WO # 0305007 PAHs Multiplr: 1.00
MS Integration Params: rteint.p

Method : D:\BPARUCHU\METHODS\1C612261.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002
Last Update : Tue Jul 15 11:47:50 2003
Response via : Single Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
41	M	4-Chloro-3-methylphenol	0.315	0.311	1.3	61	0.00
42	M	Safrole	0.302	0.278	7.9	60	0.00
43	M	2-Methylnaphthalene	0.732	0.703	4.0	61	0.00
44	I	Acenaphthene-d10	1.000	1.000	0.0	60	0.00
45	M	Hexachlorocyclopentadiene	0.301	0.191	36.5#	36#	0.00
46	M	1,2,4,5-Tetrachlorobenzene	0.507	0.516	-1.8	61	0.00
47	M	2,4,6-Trichlorophenol	0.341	0.340	0.3	59	0.00
48	M	2,4,5-Trichlorophenol	0.362	0.338	6.6	54	0.00
49	S	2-Fluorobiphenyl	1.149	1.171	-1.9	60	0.00
50	M	Isosafrole	0.469	0.450	4.1	58	0.00
51	M	2-Chloronaphthalene	1.049	1.092	-4.1	62	0.00
52	M	2-Nitroaniline	0.395	0.387	2.0	58	0.00
53	M	1,4-Naphthoquinone	0.306	0.292	4.6	54	0.00
54	M	Dimethylphthalate	1.248	1.310	-5.0	64	0.00
55	M	2,6-Dinitrotoluene	0.308	0.317	-2.9	61	0.00
56	M	1,3-Dinitrobenzene	0.240	0.225	6.2	56	0.00
57	M	Acenaphthylene	1.720	1.776	-3.3	61	0.00
58	M	3-Nitroaniline	0.309	0.266	13.9	54	0.00
59	M	Acenaphthene	1.100	1.116	-1.5	61	0.00
60	M	2,4-Dinitrophenol	0.167	0.083	50.3#	26#	0.00
61	M	Pentachlorobenzene	0.468	0.462	1.3	60	0.00
62	M	Dibenzofuran	1.524	1.558	-2.2	61	0.00
63	M	2,4-Dinitrotoluene	0.410	0.413	-0.7	61	0.00
64	M	4-Nitrophenol	0.153	0.006	96.1#	2#	0.00
65	M	Diethylphthalate	1.291	1.321	-2.3	62	0.00
66	M	Fluorene	1.268	1.299	-2.4	61	0.00
67	M	4-Chlorophenylphenyl ether	0.620	0.638	-2.9	62	0.00
68	M	Thionazin	0.288	0.307	-6.6	62	0.00
69	M	5-Nitro-o-toluidine	0.362	0.342	5.5	55	0.00
70	M	4-Nitroaniline	0.282	0.247	12.4	51	0.00
71	I	Phenanthrene-d10	1.000	1.000	0.0	62	0.00
72	M	2-Methyl-4,6-dinitrophenol	0.164	0.127	22.6	46#	0.00
73	M	Diphenylamine	0.711	0.706	0.7	61	0.00
74	M	Azobenzene	0.858	0.848	1.2	61	0.00
75	S	2,4,6-Tribromophenol	0.099	0.097	2.0	60	0.00
76	M	Sulfotep	0.139	0.141	-1.4	62	0.00
77	M	Phorate	0.067	0.070	-4.5	63	0.00
78	M	Diallate	0.279	0.292	-4.7	61	0.00
79	M	4-Bromophenyl phenyl ether	0.221	0.209	5.4	60	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\BPARUCHU\DATA\1C061203\1C061202.D Vial: 2
Acq On : 12 Jun 2003 6:05 pm Operator: BP
Sample : CC 25 PPM @ INDIANA HARBOR Inst : GCMS1
Misc : WO # 0305007 PAHs Multiplr: 1.00
MS Integration Params: rteint.p

Method : D:\BPARUCHU\METHODS\1C612261.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002
Last Update : Tue Jul 15 11:47:50 2003
Response via : Single Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
80	M	Alpha-BHC	0.151	0.158	-4.6	63	0.00
81	M	Phenacetin	0.255	0.227	11.0	57	0.00
82	M	1,3,5-Trinitrobenzene	0.102	0.075	26.5#	43#	0.00
83	M	Hexachlorobenzene	0.234	0.226	3.4	59	0.00
84	M	Dimethoate	0.320	0.322	-0.6	57	0.00
85	M	Beta-BHC	0.124	0.134	-8.1	65	0.00
86	M	Pentachloronitrobenzene	0.041	0.041	0.0	60	0.00
87	M	4-Aminobiphenyl	0.510	0.402	21.2	47#	0.00
88	M	Pentachlorophenol	0.129	0.113	12.4	46#	0.00
89	M	Delta-BHC	0.127	0.134	-5.5	64	0.00
90	M	Pronamide	0.368	0.369	-0.3	63	0.00
91	M	Phenanthrene	1.103	1.122	-1.7	63	0.00
92	M	Dinoseb	0.216	0.189	12.5	50#	0.00
93	M	Disulfoton	0.541	0.556	-2.8	62	0.00
94	M	Anthracene	1.146	1.188	-3.7	64	0.00
95	M	Gamma-BHC	0.122	0.128	-4.9	63	0.00
96	M	Carbazole	1.061	1.021	3.8	57	0.00
97	M	Methyl Parathion	0.163	0.166	-1.8	58	0.00
98	M	Heptachlor	0.101	0.104	-3.0	61	0.00
99	M	Di-n-butylphthalate	1.258	1.396	-11.0	66	0.00
100	M	Aldrin	0.093	0.095	-2.2	61	0.00
101	M	Ethyl Parathion	0.130	0.138	-6.2	62	0.00
102	M	Isodrin	0.134	0.139	-3.7	64	0.00
103	M	Heptachlor Epoxide	0.062	0.069	-11.3	68	0.00
104	M	Fluoranthene	1.216	1.285	-5.7	65	0.00
105	I	Chrysene-d12	1.000	1.000	0.0	58	0.00
106	M	Pyrene	1.238	1.322	-6.8	63	0.00
107	M	p,p'-DDE	0.262	0.294	-12.2	66	0.00
108	S	Terphenyl-d14	0.838	0.919	-9.7	64	0.00
109	M	Dieldrin	0.212	0.227	-7.1	61	0.00
110	M	p-Dimethylaminoazobenzene	0.295	0.306	-3.7	61	0.00
111	M	Chlorobenzilate	0.394	0.414	-5.1	62	0.00
112	M	Endrin	0.047	0.050	-6.4	60	0.00
113	M	p,p'-DDD	0.449	0.513	-14.3	66	0.00
114	M	Endrin Aldehyde	0.004	0.004	0.0	67	0.00
115	M	Famphur	0.141	0.122	13.5	64	0.00
116	M	Butylbenzylphthalate	0.610	0.662	-8.5	62	0.00
117	M	Endosulfan Sulfate	0.378	0.376	0.5	56	0.00
118	M	2-Acetylaminofluorene	0.541	0.519	4.1	53	0.00
119	M	Endrin Ketone	0.679	0.713	-5.0	59	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\BPARUCHU\DATA\1C061203\1C061202.D Vial: 2
Acq On : 12 Jun 2003 6:05 pm Operator: BP
Sample : CC 25 PPM @ INDIANA HARBOR Inst : GCMS1
Misc : WO # 0305007 PAHs Multiplr: 1.00
MS Integration Params: rteint.p

Method : D:\BPARUCHU\METHODS\1C612261.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002
Last Update : Tue Jul 15 11:47:50 2003
Response via : Single Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
120	M	Methoxychlor	0.679	0.713	-5.0	59	0.00
121	M	Benz(a)anthracene	1.213	1.225	-1.0	58	0.00
122	M	3,3'-Dichlorobenzidine	0.296	0.269	9.1	51	0.00
123	M	Bis(2-ethylhexyl)phthalate	0.831	0.941	-13.2	63	0.00
124	M	Chrysene	1.053	1.072	-1.8	59	0.00
125	I	Perylene-d12	1.000	1.000	0.0	49#	0.00
126	M	Di-n-octylphthalate	1.712	2.343	-36.9#	65	0.00
127	M	7,12-Dimethylbenz(a)anthrac	0.703	0.841	-19.6	60	0.00
128	M	Benzo[b]fluoranthene	1.626	1.684	-3.6	51	0.00
129	M	Benzo(k)fluoranthene	1.314	1.588	-20.9	63	0.00
130	M	Benzo(a)pyrene	1.403	1.507	-7.4	53	0.00
131	M	3-Methylcholanthrene	0.802	0.683	14.8	42#	0.00
132	M	Indeno[1,2,3,cd]pyrene	1.724	1.285	25.5#	37#	0.00
133	M	Dibenz(a,h)anthracene	1.432	1.036	27.7#	36#	0.00
134	M	Benzo(g,h,i)perylene	1.422	1.016	28.6#	35#	0.00

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Indiana Harbor Contract: ML-10C

Lab Code: USEPA-R5 Case No.: 0305007 SAS No.: GCMS SDG No.:

Lab File ID (Standard): 1C061202.D Date Analyzed: 6/12/03

Instrument ID: Time Analyzed: 18:05

		IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
	12 HOUR STD	3052394	8.81	6883239	11.87	4197664	16.37
	UPPER LIMIT	6104788	9.31	13766478	12.37	8395328	16.87
	LOWER LIMIT	1526197	8.31	3441620	11.37	2098832	15.87
	EPA SAMPLE NO.						
01	0305007-25	2903056	8.80	6650105	11.86	4205475	16.36
02	0305007-25MS	2520156	8.80	5962742	11.86	3767492	16.36
03	0305007-25MD	3038148	8.80	6871483	11.86	4253425	16.37
04	0305007-26	2983570	8.80	6754332	11.86	4237276	16.37
05	0305007-27	3012209	8.80	6970132	11.87	4233030	16.37
06	0305007-28	3072426	8.80	6940558	11.86	4433217	16.37
07	0305007-29	3131332	8.80	7047005	11.86	4500360	16.36
08	0305007-30	3041672	8.80	6833872	11.86	4342374	16.37
09	0305007-31	3089096	8.80	6950973	11.86	4418240	16.37
10	0305007-32	2959732	8.81	6665679	11.86	4229244	16.37
11	0305007-33	3411378	8.81	7750241	11.87	4969862	16.38
12	0305007-38	3021776	8.80	6855161	11.87	4305363	16.37
13	0305007-39	3183051	8.80	7062677	11.86	5391487	16.36

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8
IS3 = Acenaphthene-d10
IS4 = Phenanthrene-d10
IS5 = Chrysene-d12
IS6 = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.
* Values outside of contract required QC limits

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Indiana Harbor Contract: ML-10C

Lab Code: USEPA-R5 Case No.: 0305007 SAS No.: GCMS SDG No.:

Lab File ID (Standard): 1C061202.D Date Analyzed: 06/12/03

Instrument ID: Time Analyzed: 18:05

		IS4 AREA #	RT #	IS5 AREA #	RT #	IS6 AREA #	RT #
	12 HOUR STD	6739081	20.22	6631558	26.23	4393967	28.97
	UPPER LIMIT	13478162	19.72	13263116	25.73	8787934	28.47
	LOWER LIMIT	3369541	20.72	3315779	26.73	2196984	29.47
	EPA SAMPLE NO.						
01	0305007-25	6626313	20.22	6051524	26.25	4247069	29.02
02	0305007-25MS	5975305	20.22	5125234	26.25	3635921	29.01
03	0305007-25MD	6594863	20.23	5810010	26.26	3859526	29.03
04	0305007-26	6511331	20.24	6136327	26.28	3971032	29.05
05	0305007-27	6686979	20.23	5880530	26.27	3419395	29.04
06	0305007-28	6658848	20.24	6280978	26.28	3555827	29.05
07	0305007-29	7312205	20.22	6621901	26.25	4313944	29.01
08	0305007-30	6695358	20.23	6115562	26.28	3816032	29.06
09	0305007-31	6685207	20.24	6958844	26.29	3811325	29.07
10	0305007-32	6555196	20.24	6753694	26.30	3749892	29.09
11	0305007-33	7584747	20.25	8824039	26.31	4619442	29.08
12	0305007-38	6240161	20.25	6999699	26.31	3532612	29.09
13	0305007-39	7190273	20.23	7008670	26.27	4508396	29.04

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8
IS3 = Acenaphthene-d10
IS4 = Phenanthrene-d10
IS5 = Chrysene-d12
IS6 = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.
* Values outside of contract required QC limits

4B

EPA SAMPLE NO.

SEMIVOLATILE METHOD BLANK SUMMARY

Lab Blank0604

Lab Name: Indiana Harbor Contract: ML-10C

Lab Code: USEPA-R5 Case No.: 0305007 SAS No.: GCMS SDG No.:

Lab File ID: 1C063020.D Lab Sample ID: B306001-BLK1 @ I

Instrument ID: Date Extracted: 6/4/03

Matrix: (soil/water) SOIL Date Analyzed: 7/1/03

Level: (low/med) LOW Time Analyzed: 2:11

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	0305007-34	0305007-034 @ INDIAN	1C061218.D	6/13/03
02	0305007-35	0305007-035 @ INDIAN	1C061219.D	6/13/03
03	0305007-35MS	B306001-MS1 @ INDIAN	1C061220.D	6/13/03
04	0305007-35MD	B306001-MSD1 @ INDIA	1C061221.D	6/13/03
05	0305007-36	0305007-036 @ INDIAN	1C061222.D	6/13/03

COMMENTS:

4B

EPA SAMPLE NO.

SEMIVOLATILE METHOD BLANK SUMMARY

Lab Blank0527

Lab Name: Indiana Harbor Contract: ML-10C

Lab Code: USEPA-R5 Case No.: 0305007 SAS No.: GCMS SDG No.:

Lab File ID: 1C060207.D Lab Sample ID: B305027-BLK1

Instrument ID: Date Extracted: 6/4/03

Matrix: (soil/water) SOIL Date Analyzed: 6/2/03

Level: (low/med) LOW Time Analyzed: 19:18

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	0305007-40	0305007-040 @ INDIAN	1C061223.D	6/13/03
02	0305007-40MS	B305027-MS1 @ INDIAN	1C061224.D	6/13/03

COMMENTS:

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Indiana Harbor Contract: ML-10C

Lab Code: USEPA-R5 Case No.: 0305007 SAS No.: GCMS SDG No.:

Lab File ID: 1C061216.D DFTPP Injection Date: 6/13/03

Instrument ID: DFTPP Injection Time: 5:05

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	38.9
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 Relative abundance	41.0
70	Less than 2.0% of mass 69	0.2 (0.5)1
127	25.0 - 75.0% of mass 198	49.1
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 30.0% of mass 198	26.5
365	Greater than 0.75% of mass 198	2.6
441	Present, but less than mass 443	9.6
442	40.0 - 110.0% of mass 198	65.0
443	15.0 - 24.0% of mass 442	12.9 (19.9)2

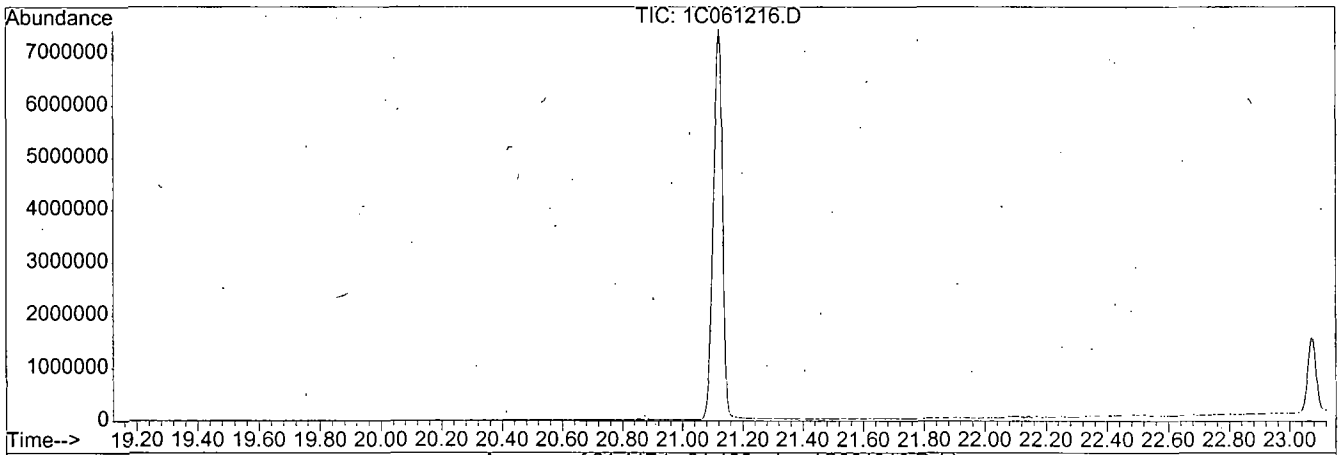
1-Value is % mass 69 2-Value is % mass 442

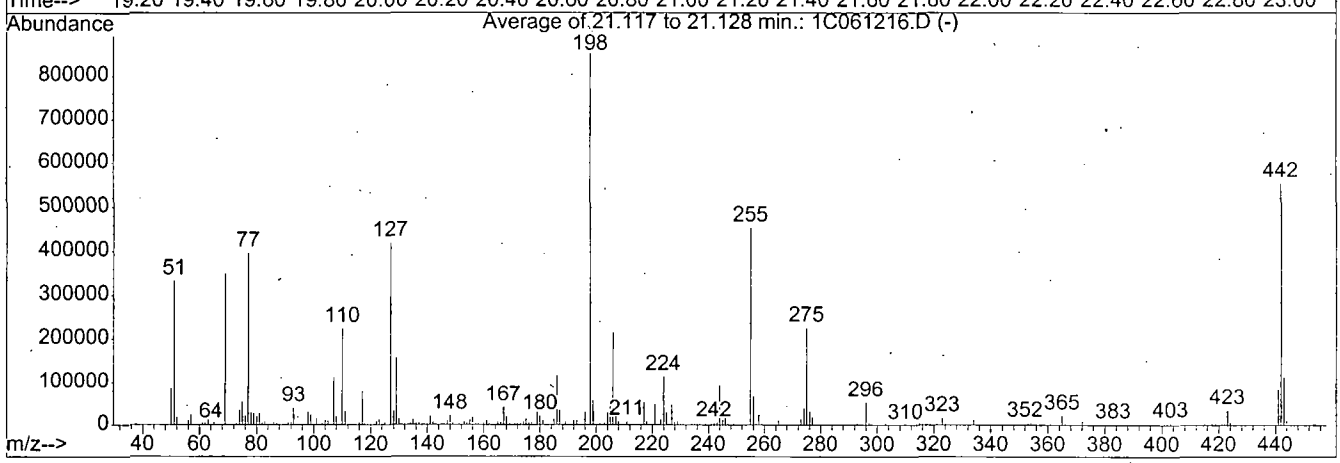
THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD0612B	CC2 25 PPM @ INDIAN	1C061217.D	6/13/03	5:53
02	0305007-34	0305007-034 @ INDIAN	1C061218.D	6/13/03	6:40
03	0305007-35	0305007-035 @ INDIAN	1C061219.D	6/13/03	7:28
04	0305007-35MS	B306001-MS1 @ INDIAN	1C061220.D	6/13/03	8:16
05	0305007-35MD	B306001-MSD1 @ INDIA	1C061221.D	6/13/03	9:05
06	0305007-36	0305007-036 @ INDIAN	1C061222.D	6/13/03	9:53
07	0305007-40	0305007-040 @ INDIAN	1C061223.D	6/13/03	10:42
08	0305007-40MS	B305027-MS1 @ INDIAN	1C061224.D	6/13/03	11:29

DFTPP for METHOD 625SAS

Data File : D:\BPARUCHU\DATA\1C061203\1C061216.D Vial: 1
Acq On : 13 Jun 2003 5:05 am Operator: BP
Sample : DFTPP @ INDIANA HARBOR Inst : GCMS1
Misc : WO # 0305007 ------g/ mL PAHs Multiplr: 1.00
MS Integration Params: rteint.p
Method : D:\BPARUCHU\METHODS\1C612262.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002





Spectrum Information: Average of 21.117 to 21.128 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	80	38.9	331755	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.01	100	41.0	349467	PASS
70	69	0.00	2	0.5	1654	PASS
127	198	25	75	49.1	418517	PASS
197	198	0.00	1	0.0	0	PASS
198	198	90	100	100.0	852181	PASS
199	198	5	9	6.8	58045	PASS
275	198	10	30	26.5	225515	PASS
365	198	0.75	100	2.6	22456	PASS
441	443	0.01	100	74.4	81899	PASS
442	198	40	110	65.0	554005	PASS
443	442	15	24	19.9	110075	PASS

1C061216.D 1C612262.M Tue Jul 15 18:53:35 2003 TEST

Evaluate Continuing Calibration Report

Data File : D:\BPARUCHU\DATA\1C061203\1C061217.D Vial: 2
Acq On : 13 Jun 2003 5:53 am Operator: BP
Sample : CC2 25 ppm @ INDIANA HARBOR Inst : GCMS1
Misc : WO # 0305007 ------g/ mL PAHs Multiplr: 1.00
MS Integration Params: rteint.p

Method : D:\BPARUCHU\METHODS\1C612262.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002
Last Update : Tue Jul 15 11:58:02 2003
Response via : Single Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	75	0.00
2	M	2-Picoline	0.400	0.711	-77.7#	77	0.00
3	M	N-Nitrosomethylethylamine	0.406	0.358	11.8	66	0.00
4	M	Methyl methanesulfonate	0.331	0.321	3.0	73	0.00
5	S	2-Fluorophenol	0.682	0.6762	0.9	73	0.00
6	M	N-Nitrosodiethylamine	0.412	0.379	8.0	71	0.00
7	M	Ethyl methanesulfonate	0.607	0.585	3.6	74	0.00
8	M	Aniline	1.120	1.004	10.4	159#	0.00
9	M	Pentachloroethane	0.300	0.299	0.3	72	0.00
10	S	Phenol-d5	0.894	0.886	0.9	68	0.00
11	M	Phenol	1.051	1.052	-0.1	72	0.00
12	M	Bis(2-chloroethyl)ether	0.883	0.851	3.6	60	0.00
13	M	2-Chlorophenol	0.833	0.812	2.5	74	0.00
14	M	1,3-Dichlorobenzene	0.895	0.885	1.1	74	0.00
15	M	1,4-Dichlorobenzene	0.904	0.890	1.5	74	0.00
16	M	1,2-Dichlorobenzene	0.847	0.856	-1.1	75	0.00
17	M	Benzyl alcohol	0.489	0.487	0.4	67	0.00
18	M	bis(2-Chloroisopropyl)ether	0.295	0.295	0.0	74	0.00
19	M	2-Methylphenol	0.725	0.732	-1.0	79	0.00
20	M	Acetophenone	1.100	1.122	-2.0	76	0.00
21	M	o-Toluidine	0.884	1.145	-29.5#	69	0.00
22	M	Hexachloroethane	0.298	0.312	-4.7	74	0.00
23	M	N-Nitroso-di-n-propylamine	0.594	0.605	-1.9	71	0.00
24	M	3-&/or 4-Methylphenol	0.932	1.187	-27.4#	92	0.00
25	I	Naphthalene-d8	1.000	1.000	0.0	76	0.00
26	S	Nitrobenzene-d5	0.383	0.379	1.0	74	0.00
27	M	Nitrobenzene	0.209	0.191	8.6	71	0.00
28	M	N-Nitrosopiperidine	0.191	0.176	7.9	70	0.00
29	M	Isophorone	0.737	0.741	-0.5	74	0.00
30	M	2-Nitrophenol	0.222	0.207	6.8	71	0.00
31	M	2,4-Dimethylphenol	0.384	0.374	2.6	73	0.00
32	M	o,o,o-Triethylphosphorothio	0.200	0.195	2.5	72	0.00
33	M	Bis(2-chloroethoxy)methane	0.459	0.421	8.3	77	0.00
34	M	2,4-Dichlorophenol	0.310	0.275	11.3	67	0.00
35	M	1,2,4-Trichlorobenzene	0.337	0.325	3.6	75	0.00
36	M	Naphthalene	1.061	1.036	2.4	74	0.00
37	M	Hexachloropropene	0.219	0.192	12.3	64	0.00
38	M	4-Choroaniline	0.362	0.343	5.2	62	0.00
39	M	Hexachlorobutadiene	0.188	0.187	0.5	75	0.00
40	M	N-Nitrosodi-n-butylamine	0.261	0.258	1.1	73	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\BPARUCHU\DATA\1C061203\1C061217.D Vial: 2
Acq On : 13 Jun 2003 5:53 am Operator: BP
Sample : CC2 25 ppm @ INDIANA HARBOR Inst : GCMS1
Misc : WO # 0305007 ------g/ mL PAHs Multiplr: 1.00
MS Integration Params: rteint.p

Method : D:\BPARUCHU\METHODS\1C612262.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002
Last Update : Tue Jul 15 11:58:02 2003
Response via : Single Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
41	M	4-Chloro-3-methylphenol	0.315	0.318	-1.0	73	0.00
42	M	Safrole	0.302	0.285	5.6	72	0.00
43	M	2-Methylnaphthalene	0.732	0.719	1.8	74	0.00
44	I	Acenaphthene-d10	1.000	1.000	0.0	71	0.00
45	M	Hexachlorocyclopentadiene	0.301	0.185	38.5#	42#	0.00
46	M	1,2,4,5-Tetrachlorobenzene	0.507	0.514	-1.4	71	0.00
47	M	2,4,6-Trichlorophenol	0.341	0.336	1.5	69	0.00
48	M	2,4,5-Trichlorophenol	0.362	0.345	4.7	66	0.00
49	S	2-Fluorobiphenyl	1.149	1.179	-2.6	71	0.00
50	M	Isosafrole	0.469	0.450	4.1	69	0.00
51	M	2-Chloronaphthalene	1.049	1.094	-4.3	73	0.00
52	M	2-Nitroaniline	0.395	0.391	1.0	69	0.00
53	M	1,4-Naphthoquinone	0.306	0.291	4.9	64	0.00
54	M	Dimethylphthalate	1.248	1.312	-5.1	75	0.00
55	M	2,6-Dinitrotoluene	0.308	0.320	-3.9	73	0.00
56	M	1,3-Dinitrobenzene	0.240	0.228	5.0	67	0.00
57	M	Acenaphthylene	1.720	1.779	-3.4	72	0.00
58	M	3-Nitroaniline	0.309	0.265	14.2	64	0.00
59	M	Acenaphthene	1.100	1.142	-3.8	74	0.00
60	M	2,4-Dinitrophenol	0.167	0.080	52.1#	29#	0.00
61	M	Pentachlorobenzene	0.468	0.452	3.4	70	0.00
62	M	Dibenzofuran	1.524	1.545	-1.4	72	0.00
63	M	2,4-Dinitrotoluene	0.410	0.419	-2.2	73	0.00
64	M	4-Nitrophenol	0.153	0.000	100.0#	0#	-16.89#
65	M	Diethylphthalate	1.291	1.311	-1.5	73	0.00
66	M	Fluorene	1.268	1.303	-2.8	72	0.00
67	M	4-Chlorophenylphenyl ether	0.620	0.626	-1.0	72	0.00
68	M	Thionazin	0.288	0.313	-8.7	75	0.00
69	M	5-Nitro-o-toluidine	0.362	0.342	5.5	65	0.00
70	M	4-Nitroaniline	0.282	0.254	9.9	62	0.00
71	I	Phenanthrene-d10	1.000	1.000	0.0	73	0.00
72	M	2-Methyl-4,6-dinitrophenol	0.164	0.123	25.0#	52	0.00
73	M	Diphenylamine	0.711	0.710	0.1	73	0.00
74	M	Azobenzene	0.858	0.844	1.6	71	0.00
75	S	2,4,6-Tribromophenol	0.099	0.099	0.0	72	0.00
76	M	Sulfotep	0.139	0.142	-2.2	74	0.00
77	M	Phorate	0.067	0.070	-4.5	74	0.00
78	M	Diallate	0.279	0.295	-5.7	73	0.00
79	M	4-Bromophenyl phenyl ether	0.221	0.207	6.3	70	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\BPARUCHU\DATA\1C061203\1C061217.D Vial: 2
Acq On : 13 Jun 2003 5:53 am Operator: BP
Sample : CC2 25 ppm @ INDIANA HARBOR Inst : GCMS1
Misc : WO # 0305007 ------g/ mL PAHs Multiplr: 1.00
MS Integration Params: rteint.p

Method : D:\BPARUCHU\METHODS\1C612262.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002
Last Update : Tue Jul 15 11:58:02 2003
Response via : Single Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
80	M	Alpha-BHC	0.151	0.156	-3.3	74	0.00
81	M	Phenacetin	0.255	0.230	9.8	68	0.00
82	M	1,3,5-Trinitrobenzene	0.102	0.077	24.5	53	0.00
83	M	Hexachlorobenzene	0.234	0.224	4.3	69	0.00
84	M	Dimethoate	0.320	0.328	-2.5	69	0.00
85	M	Beta-BHC	0.124	0.135	-8.9	77	0.00
86	M	Pentachloronitrobenzene	0.041	0.040	2.4	71	0.00
87	M	4-Aminobiphenyl	0.510	0.373	26.9#	52	0.00
88	M	Pentachlorophenol	0.129	0.110	14.7	53	0.00
89	M	Delta-BHC	0.127	0.134	-5.5	76	0.00
90	M	Pronamide	0.368	0.371	-0.8	75	0.00
91	M	Phenanthrene	1.103	1.120	-1.5	74	0.00
92	M	Dinoseb	0.216	0.181	16.2	56	0.00
93	M	Disulfoton	0.541	0.572	-5.7	75	0.00
94	M	Anthracene	1.146	1.189	-3.8	76	0.00
95	M	Gamma-BHC	0.122	0.128	-4.9	74	0.00
96	M	Carbazole	1.061	1.027	3.2	67	0.00
97	M	Methyl Parathion	0.163	0.167	-2.5	70	0.00
98	M	Heptachlor	0.101	0.104	-3.0	72	0.00
99	M	Di-n-butylphthalate	1.258	1.393	-10.7	78	0.00
100	M	Aldrin	0.093	0.096	-3.2	73	0.00
101	M	Ethyl Parathion	0.130	0.139	-6.9	74	0.00
102	M	Isodrin	0.134	0.143	-6.7	77	0.00
103	M	Heptachlor Epoxide	0.062	0.069	-11.3	80	0.00
104	M	Fluoranthene	1.216	1.303	-7.2	77	0.00
105	I	Chrysene-d12	1.000	1.000	0.0	67	0.00
106	M	Pyrene	1.238	1.373	-10.9	76	0.00
107	M	p,p'-DDE	0.262	0.301	-14.9	78	0.00
108	S	Terphenyl-d14	0.838	0.943	-12.5	75	0.00
109	M	Dieldrin	0.212	0.236	-11.3	73	0.00
110	M	p-Dimethylaminoazobenzene	0.295	0.320	-8.5	73	0.00
111	M	Chlorobenzilate	0.394	0.421	-6.9	72	0.00
112	M	Endrin	0.047	0.051	-8.5	70	0.00
113	M	p,p'-DDD	0.449	0.529	-17.8	78	0.00
114	M	Endrin Aldehyde	0.004	0.004	0.0	78	0.00
115	M	Famphur	0.141	0.111	21.3	67	0.00
116	M	Butylbenzylphthalate	0.610	0.689	-13.0	75	0.00
117	M	Endosulfan Sulfate	0.378	0.371	1.9	64	0.00
118	M	2-Acetylaminofluorene	0.541	0.550	-1.7	65	0.00
119	M	Endrin Ketone	0.679	0.709	-4.4	67	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\BPARUCHU\DATA\1C061203\1C061217.D Vial: 2
Acq On : 13 Jun 2003 5:53 am Operator: BP
Sample : CC2 25 ppm @ INDIANA HARBOR Inst : GCMS1
Misc : WO # 0305007 ------g/ mL PAHs Multiplr: 1.00
MS Integration Params: rteint.p

Method : D:\BPARUCHU\METHODS\1C612262.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002
Last Update : Tue Jul 15 11:58:02 2003
Response via : Single Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
120	M	Methoxychlor	0.679	0.709	-4.4	67	0.00
121	M	Benz(a)anthracene	1.213	1.251	-3.1	68	0.00
122	M	3,3'-Dichlorobenzidine	0.296	0.262	11.5	57	0.00
123	M	Bis(2-ethylhexyl)phthalate	0.831	0.963	-15.9	74	0.00
124	M	Chrysene	1.053	1.070	-1.6	67	0.00
125	I	Perylene-d12	1.000	1.000	0.0	61	0.00
126	M	Di-n-octylphthalate	1.712	2.289	-33.7#	78	0.00
127	M	7,12-Dimethylbenz(a)anthrac	0.703	0.854	-21.5	74	0.00
128	M	Benzo[b]fluoranthene	1.626	1.728	-6.3	64	0.00
129	M	Benzo(k)fluoranthene	1.314	1.396	-6.2	68	0.00
130	M	Benzo(a)pyrene	1.403	1.509	-7.6	65	0.00
131	M	3-Methylcholanthrene	0.802	0.677	15.6	51	0.00
132	M	Indeno[1,2,3,cd]pyrene	1.724	1.318	23.5	47#	0.00
133	M	Dibenz(a,h)anthracene	1.432	1.073	25.1#	45#	0.00
134	M	Benzo(g,h,i)perylene	1.422	1.011	28.9#	43#	0.00

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

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Indiana Harbor Contract: ML-10C

Lab Code: USEPA-R5 Case No.: 0305007 SAS No.: GCMS SDG No.:

Lab File ID (Standard): 1C061217.D Date Analyzed: 6/13/03

Instrument ID: Time Analyzed: 5:53

		IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
	12 HOUR STD	3656721	8.82	8128866	11.88	4975511	16.37
	UPPER LIMIT	7313442	9.32	16257732	12.38	9951022	16.87
	LOWER LIMIT	1828361	8.32	4064433	11.38	2487756	15.87
	EPA SAMPLE NO.						
01	0305007-34	3143919	8.80	7287774	11.86	4721982	16.36
02	0305007-35	3380127	8.81	7689630	11.87	4337526	16.39
03	0305007-35MS	6004413	8.81	13183796	11.89	8161425	16.42
04	0305007-35MD	3910027	8.80	8568618	11.88	4519018	16.43
05	0305007-36	3180143	8.80	7259767	11.86	4443149	16.38
06	0305007-40	3154604	8.80	7085923	11.86	4422603	16.36
07	0305007-40MS	3433706	8.80	7610614	11.86	4887425	16.36

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8
IS3 = Acenaphthene-d10
IS4 = Phenanthrene-d10
IS5 = Chrysene-d12
IS6 = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.
* Values outside of contract required QC limits

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Indiana Harbor Contract: ML-10C

Lab Code: USEPA-R5 Case No.: 0305007 SAS No.: GCMS SDG No.:

Lab File ID (Standard): 1C061217.D Date Analyzed: 06/13/03

Instrument ID: Time Analyzed: 05:53

		IS4 AREA #	RT #	IS5 AREA #	RT #	IS6 AREA #	RT #
	12 HOUR STD	7972546	20.24	7642468	26.25	5378975	28.99
	UPPER LIMIT	15945092	19.74	15284936	25.75	10757950	28.49
	LOWER LIMIT	3986273	20.74	3821234	26.75	2689488	29.49
	EPA SAMPLE NO.						
01	0305007-34	7178353	20.23	6020572	26.27	4071998	29.04
02	0305007-35	6592855	20.26	7227782	26.23	4695348	28.98
03	0305007-35MS	11983136	20.30	11666310	26.26	7813968	29.01
04	0305007-35MD	6752373	20.32	8034714	26.25	5366362	28.99
05	0305007-36	6478651	20.26	7257282	26.31	3639131	29.09
06	0305007-40	7157344	20.22	6910540	26.24	4858320	29.00
07	0305007-40MS	8048095	20.22	8158839	26.23	5272383	28.98

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8
IS3 = Acenaphthene-d10
IS4 = Phenanthrene-d10
IS5 = Chrysene-d12
IS6 = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.
* Values outside of contract required QC limits

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: USS CELL B Contract: ML-10C

Lab Code: USEPA-R5 Case No.: 0306008 SAS No.: GCMS SDG No.:

Lab File ID: 1C063001.D DFTPP Injection Date: 6/30/03

Instrument ID: DFTPP Injection Time: 11:55

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	39.7
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 Relative abundance	39.4
70	Less than 2.0% of mass 69	0.2 (0.4)1
127	25.0 - 75.0% of mass 198	44.7
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 30.0% of mass 198	28.5
365	Greater than 0.75% of mass 198	3.4
441	Present, but less than mass 443	10.3
442	40.0 - 110.0% of mass 198	70.1
443	15.0 - 24.0% of mass 442	13.5 (19.3)2

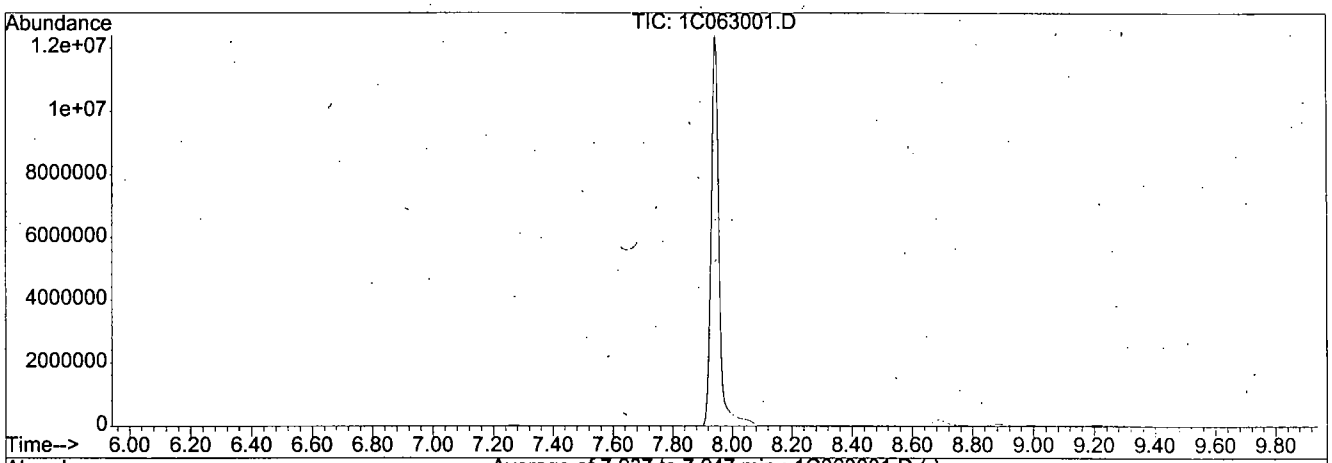
1-Value is % mass 69 2-Value is % mass 442

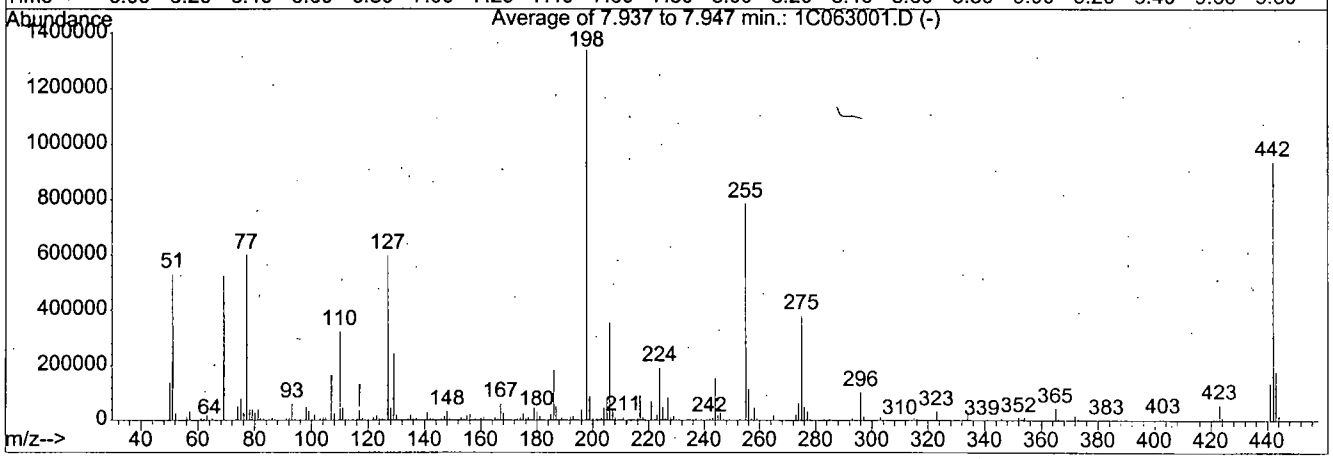
THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD0630CC	ABN CC 25 PPB	1C063002.D	6/30/03	12:15
02	SSTD0630LV1	ABN CC 100 PPB	1C063003.D	6/30/03	13:02
03	SSTD0630LV2	ABN CC 50 PPB	1C063004.D	6/30/03	13:48
04	SSTD0630LV4	ABN CC 10 PPB	1C063005.D	6/30/03	14:35
05	SSTD0630LV5	ABN CC 5 PPB	1C063006.D	6/30/03	15:21

DFTPP for METHOD 625SAS

Data File : D:\BPARUCHU\DATA\1C063003\1C063001.D Vial: 1
Acq On : 30 Jun 2003 11:55 am Operator: BP
Sample : DFTPP 50ng @ Inst : GCMS1
Misc : WO # 0305007 & 0306008 PAHs Multiplr: 1.00
MS Integration Params: rteint.p
Method : D:\BPARUCHU\METHODS\1C630261.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002





Spectrum Information: Average of 7.937 to 7.947 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	80	39.7	531712	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.01	100	39.4	528064	PASS
70	69	0.00	2	0.4	2140	PASS
127	198	25	75	44.7	599531	PASS
197	198	0.00	1	0.0	0	PASS
198	198	90	100	100.0	1340245	PASS
199	198	5	9	6.8	90757	PASS
275	198	10	30	28.5	381376	PASS
365	198	0.75	100	3.4	45973	PASS
441	443	0.01	100	76.2	138259	PASS
442	198	40	110	70.1	939051	PASS
443	442	15	24	19.3	181419	PASS

1C063001.D 1C630261.M Mon Jun 30 12:08:09 2003 TEST

Response Factor Report GCMS1

Method : D:\BPARUCHU\METHODS\1C630261.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002
Last Update : Tue Jul 01 13:26:38 2003
Response via : Continuing Calibration

Calibration Files
1 =1C063003.D 2 =1C063004.D 3 =1C063002.D
4 =1C063005.D 5 =1C063006.D

		Compound	1	2	3	4	5	Avg	%RSD
1)	I	1,4-Dichlorobenzene-d	---ISTD---						
2)	M	2-Picoline	0.662	0.749	0.811	0.902	0.834	0.791	11.45
3)	M	N-Nitrosomethylethyla	0.336	0.372	0.377	0.404	0.410	0.380	7.73
4)	M	Methyl methanesulfona	0.302	0.332	0.337	0.349	0.354	0.335	6.08
5)	S	2-Fluorophenol	0.614	0.662	0.672	0.650	0.649	0.650	3.38
6)	M	N-Nitrosodiethylamine	0.338	0.368	0.367	0.392	0.395	0.372	6.14
7)	M	Ethyl methanesulfonat	0.516	0.563	0.577	0.591	0.589	0.567	5.37
8)	M	Aniline	1.005	1.109	1.123	1.036	0.989	1.052	5.78
9)	M	Pentachloroethane	0.267	0.297	0.300	0.318	0.329	0.302	7.83
10)	S	Phenol-d5	0.751	0.859	0.875	0.813	0.783	0.816	6.31
11)	M	Phenol	0.884	1.021	1.053	1.034	1.055	1.009	7.08
12)	M	Bis(2-chloroethyl)eth	0.627	0.765	0.791	0.850	0.850	0.777	11.78
13)	M	2-Chlorophenol	0.676	0.755	0.757	0.795	0.785	0.754	6.20
14)	M	1,3-Dichlorobenzene	0.751	0.839	0.840	0.904	0.670	0.801	11.39
15)	M	1,4-Dichlorobenzene	0.752	0.855	0.875	0.927	0.957	0.873	9.05
16)	M	1,2-Dichlorobenzene	0.715	0.809	0.824	0.870	0.888	0.821	8.25
17)	M	Benzyl alcohol	0.428	0.467	0.448	0.434	0.380	0.432	7.53
18)	M	bis(2-Chloroisopropyl	0.251	0.272	0.278	0.287	0.290	0.275	5.68
19)	M	2-Methylphenol	0.605	0.685	0.712	0.696	0.658	0.671	6.21
20)	M	Acetophenone	0.948	1.042	1.064	1.087	1.112	1.051	6.00
21)	M	o-Toluidine	1.078	1.226	1.157	0.944	0.818	1.045	15.73
22)	M	Hexachloroethane	0.283	0.315	0.319	0.349	0.346	0.322	8.29
23)	M	N-Nitroso-di-n-propyl	0.504	0.585	0.616	0.616	0.603	0.585	8.03
24)	M	3-&/or 4-Methylphenol	1.031	1.149	1.182	1.068	0.916	1.069	9.82
25)	I	Naphthalene-d8	---ISTD---						
26)	S	Nitrobenzene-d5	0.372	0.386	0.383	0.368	0.366	0.375	2.35
27)	M	Nitrobenzene	0.171	0.178	0.175	0.180	0.177	0.176	2.01
28)	M	N-Nitrosopiperidine	0.171	0.177	0.172	0.171	0.164	0.171	2.68
29)	M	Isophorone	0.740	0.756	0.757	0.736	0.699	0.738	3.18
30)	M	2-Nitrophenol	0.193	0.196	0.180	0.185	0.171	0.185	5.37
31)	M	2,4-Dimethylphenol	0.372	0.383	0.369	0.346	0.316	0.357	7.45
32)	M	o,o,o-Triethylphospho	0.208	0.217	0.211	0.200	0.200	0.207	3.51
33)	M	Bis(2-chloroethoxy)me	0.525	0.394	0.404	0.406	0.401	0.426	13.00
34)	M	2,4-Dichlorophenol	0.279	0.287	0.267	0.221	0.217	0.254	12.97
35)	M	1,2,4-Trichlorobenzen	0.324	0.344	0.333	0.349	0.350	0.340	3.30
36)	M	Naphthalene	0.795	0.944	1.023	1.060	1.073	0.979	11.68
37)	M	Hexachloropropene	0.211	0.229	0.207	0.215	0.193	0.211	6.09
38)	M	4-Choroaniline	0.359	0.357	0.360	0.148	0.095	0.264	49.67
39)	M	Hexachlorobutadiene	0.203	0.217	0.216	0.225	0.226	0.217	4.21
40)	M	N-Nitrosodi-n-butylam	0.261	0.270	0.266	0.258	0.242	0.259	4.18
41)	M	4-Chloro-3-methylphen	0.326	0.330	0.312	0.267	0.220	0.291	16.16
42)	M	Safrole	0.277	0.291	0.287	0.281	0.283	0.284	1.81

(#) = Out of Range

Method : D:\BPARUCHU\METHODS\1C630261.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002
Last Update : Tue Jul 01 13:26:38 2003
Response via : Continuing Calibration

Calibration Files
1 =1C063003.D 2 =1C063004.D 3 =1C063002.D
4 =1C063005.D 5 =1C063006.D

		Compound	1	2	3	4	5	Avg	%RSD
43)	M	2-Methylnaphthalene	0.635	0.701	0.715	0.708	0.692	0.690	4.62
44)	I	Acenaphthene-d10	----------ISTD----------						
45)	M	Hexachlorocyclopentad	0.243	0.228	0.175	0.120	0.056	0.164	47.39
46)	M	1,2,4,5-Tetrachlorobe	0.506	0.529	0.512	0.523	0.513	0.517	1.81
47)	M	2,4,6-Trichlorophenol	0.336	0.341	0.316	0.299	0.262	0.311	10.31
48)	M	2,4,5-Trichlorophenol	0.351	0.348	0.318	0.251	0.313	0.316	12.74
49)	S	2-Fluorobiphenyl	0.997	1.115	1.108	1.070	1.110	1.080	4.59
50)	M	Isosafrole	0.440	0.442	0.422	0.395	0.356	0.411	8.77
51)	M	2-Chloronaphthalene	0.921	1.033	1.018	1.029	1.038	1.008	4.86
52)	M	2-Nitroaniline	0.356	0.359	0.327	0.302	0.264	0.322	12.35
53)	M	1,4-Naphthoquinone	0.251	0.273	0.268	0.246	0.203	0.248	11.09
54)	M	Dimethylphthalate	1.187	1.243	1.232	1.245	1.230	1.228	1.93
55)	M	2,6-Dinitrotoluene	0.291	0.305	0.290	0.289	0.273	0.290	3.91
56)	M	1,3-Dinitrobenzene	0.219	0.223	0.197	0.185	0.150	0.195	15.18
57)	M	Acenaphthylene	1.380	1.585	1.631	1.666	1.686	1.589	7.76
58)	M	3-Nitroaniline	0.303	0.261	0.248	0.186	0.153	0.230	26.17
59)	M	Acenaphthene	0.968	1.054	1.053	1.064	1.079	1.044	4.18
60)	M	2,4-Dinitrophenol	0.125	0.102	0.063	0.008	0.104	0.080	57.47
61)	M	Pentachlorobenzene	0.476	0.499	0.480	0.491	0.497	0.489	2.04
62)	M	Dibenzofuran	1.251	1.449	1.495	1.542	1.560	1.459	8.53
63)	M	2,4-Dinitrotoluene	0.387	0.406	0.378	0.356	0.316	0.369	9.31
64)	M	4-Nitrophenol	0.005	0.006	0.085	0.007	0.006	0.022	161.27
65)	M	Diethylphthalate	1.144	1.236	1.244	1.249	1.267	1.228	3.94
66)	M	Fluorene	1.156	1.271	1.275	1.283	1.296	1.256	4.52
67)	M	4-Chlorophenylphenyl	0.643	0.687	0.676	0.673	0.686	0.673	2.66
68)	M	Thionazin	0.288	0.305	0.303	0.270	0.265	0.286	6.37
69)	M	5-Nitro-o-toluidine	0.330	0.334	0.318	0.297	0.269	0.309	8.71
70)	M	4-Nitroaniline	0.017	0.229	0.223	0.153	0.048	0.134	73.11
71)	I	Phenanthrene-d10	----------ISTD----------						
72)	M	2-Methyl-4,6-dinitrop	0.134	0.134	0.102	0.068	0.030	0.094	47.78
73)	M	Diphenylamine	0.599	0.667	0.655	0.673	0.670	0.653	4.73
74)	M	Azobenzene	0.779	0.786	0.802	0.804	0.805	0.795	1.48
75)	S	2,4,6-Tribromophenol	0.109	0.108	0.093	0.086	0.085	0.096	12.32
76)	M	Sulfotep	0.169	0.169	0.157	0.153	0.158	0.161	4.52
77)	M	Phorate	0.077	0.078	0.073	0.070	0.070	0.074	4.93
78)	M	Diallate	0.235	0.273	0.270	0.272	0.272	0.264	6.32
79)	M	4-Bromophenyl phenyl	0.240	0.243	0.231	0.236	0.236	0.237	1.87
80)	M	Alpha-BHC	0.156	0.165	0.164	0.156	0.160	0.160	2.82
81)	M	Phenacetin	0.253	0.249	0.224	0.190	0.219	0.227	11.15
82)	M	1,3,5-Trinitrobenzene	0.095	0.084	0.069	0.046	0.018	0.062	49.95
83)	M	Hexachlorobenzene	0.230	0.240	0.234	0.247	0.247	0.240	3.28
84)	M	Dimethoate	0.220	0.260	0.270	0.233	0.203	0.237	11.73

(#) = Out of Range

Method : D:\BPARUCHU\METHODS\1C630261.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002
Last Update : Tue Jul 01 13:26:38 2003
Response via : Continuing Calibration

Calibration Files
1 =1C063003.D 2 =1C063004.D 3 =1C063002.D
4 =1C063005.D 5 =1C063006.D

		Compound	1	2	3	4	5	Avg	%RSD
85)	M	Beta-BHC	0.135	0.143	0.139	0.124	0.127	0.134	5.86
86)	M	Pentachloronitrobenze	0.026	0.046	0.043	0.045	0.041	0.040	20.17
87)	M	4-Aminobiphenyl	0.348	0.303	0.390	0.395	0.469	0.381	16.13
88)	M	Pentachlorophenol	0.146	0.132	0.113	0.065	0.040	0.099	45.57
89)	M	Delta-BHC	0.127	0.137	0.134	0.126	0.125	0.130	4.31
90)	M	Pronamide	0.336	0.357	0.350	0.358	0.351	0.351	2.45
91)	M	Phenanthrene	0.915	1.070	1.109	1.135	1.156	1.077	8.92
92)	M	Dinoseb	0.205	0.212	0.171	0.134	0.086	0.161	32.38
93)	M	Disulfoton	0.484	0.535	0.508	0.456	0.446	0.486	7.53
94)	M	Anthracene	0.905	1.092	1.137	1.178	1.196	1.102	10.60
95)	M	Gamma-BHC	0.126	0.130	0.129	0.122	0.125	0.126	2.37
96)	M	Carbazole	0.856	0.965	0.949	0.883	0.887	0.908	5.14
97)	M	Methyl Parathion	0.140	0.161	0.158	0.137	0.116	0.143	12.67
98)	M	Heptachlor	0.110	0.113	0.106	0.099	0.102	0.106	5.34
99)	M	Di-n-butylphthalate	0.882	1.138	1.268	1.347	1.354	1.198	16.42
100)	M	Aldrin	0.107	0.109	0.106	0.101	0.106	0.106	2.69
101)	M	Ethyl Parathion	0.155	0.160	0.151	0.140	0.136	0.148	6.58
102)	M	Isodrin	0.133	0.140	0.137	0.140	0.141	0.138	2.54
103)	M	Heptachlor Epoxide	0.079	0.077	0.073	0.072	0.075	0.075	3.84
104)	M	Fluoranthene	0.971	1.195	1.265	1.317	1.347	1.219	12.34
105)	I	Chrysene-d12	----------ISTD----------						
106)	M	Pyrene	0.844	1.092	1.158	1.244	1.303	1.128	15.76
107)	M	p,p'-DDE	0.269	0.288	0.277	0.272	0.296	0.280	4.02
108)	S	Terphenyl-d14	0.654	0.803	0.838	0.838	0.903	0.807	11.50
109)	M	Dieldrin	0.178	0.193	0.192	0.189	0.206	0.192	5.39
110)	M	p-Dimethylaminoazoben	0.254	0.275	0.267	0.264	0.259	0.264	3.03
111)	M	Chlorobenzilate	0.363	0.393	0.381	0.395	0.400	0.386	3.88
112)	M	Endrin	0.042	0.047	0.047	0.046	0.048	0.046	5.32
113)	M	p,p'-DDD	0.427	0.476	0.494	0.480	0.522	0.480	7.18
114)	M	Endrin Aldehyde	0.003	0.003	0.003	0.003	0.005	0.004	22.00
115)	M	Famphur	0.008	0.013	0.094	0.125	0.147	0.077	82.78
116)	M	Butylbenzylphthalate	0.452	0.528	0.542	0.557	0.569	0.529	8.70
117)	M	Endosulfan Sulfate	0.306	0.350	0.331	0.290	0.279	0.311	9.35
118)	M	2-Acetylaminofluorene	0.423	0.446	0.414	0.325	0.223	0.366	25.18
119)	M	Endrin Ketone	0.499	0.644	0.624	0.544	0.499	0.562	12.21
120)	M	Methoxychlor	0.499	0.644	0.624	0.544	0.499	0.562	12.21
121)	M	Benz(a)anthracene	0.977	1.148	1.197	1.204	1.194	1.144	8.38
122)	M	3,3'-Dichlorobenzidin	0.192	0.248	0.277	0.290	0.268	0.255	15.15
123)	M	Bis(2-ethylhexyl)phth	0.582	0.747	0.824	0.823	0.812	0.758	13.59
124)	M	Chrysene	0.768	0.967	1.068	1.133	1.160	1.019	15.58
125)	I	Perylene-d12	----------ISTD----------						
126)	M	Di-n-octylphthalate	1.240	1.731	1.994	2.215	2.370	1.910	23.31

(#) = Out of Range

Method : D:\BPARUCHU\METHODS\1C630261.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002
Last Update : Tue Jul 01 13:26:38 2003
Response via : Continuing Calibration

Calibration Files
1 =1C063003.D 2 =1C063004.D 3 =1C063002.D
4 =1C063005.D 5 =1C063006.D

		Compound	1	2	3	4	5	Avg	%RSD
127)	M	7,12-Dimethylbenz(a)a	0.796	0.849	0.790	0.794	0.771	0.800	3.61
128)	M	Benzo[b]fluoranthene	1.452	1.670	1.698	1.663	1.591	1.615	6.14
129)	M	Benzo(k)fluoranthene	1.070	1.527	1.633	1.758	1.832	1.564	19.16
130)	M	Benzo(a)pyrene	1.289	1.407	1.379	1.400	1.396	1.374	3.56
131)	M	3-Methylcholanthrene	0.633	0.633	0.600	0.551	0.504	0.584	9.55
132)	M	Indeno[1,2,3,cd]pyren	1.259	1.172	1.167	0.921	0.847	1.073	16.61
133)	M	Dibenz(a,h)anthracene	1.080	0.999	0.988	0.768	0.655	0.898	19.87
134)	M	Benzo(g,h,i)perylene	0.882	0.851	0.955	0.786	0.722	0.839	10.68

(#) = Out of Range

Data File : D:\BPARUCHU\DATA\1C063003\1C063002.D Vial: 2
Acq On : 30 Jun 2003 12:15 pm Operator: BP
Sample : ABN CC 25 PPB Inst : GCMS1
Misc : WO # 0305007 & 0306008 PAHs Multiplr: 1.00
MS Integration Params: rteint.p

Method : D:\BPARUCHU\METHODS\1C630261.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002
Last Update : Tue Jul 01 13:26:38 2003
Response via : Single Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
2	M	2-Picoline	0.791	0.811	-2.5	100	0.00
3	M	N-Nitrosomethylethylamine	0.380	0.377	0.8	100	0.00
4	M	Methyl methanesulfonate	0.335	0.337	-0.6	100	0.00
5	S	2-Fluorophenol	0.650	0.672	-3.4	100	0.00
6	M	N-Nitrosodiethylamine	0.372	0.367	1.3	100	0.00
7	M	Ethyl methanesulfonate	0.567	0.577	-1.8	100	0.00
8	M	Aniline	1.052	1.123	-6.7	100	0.00
9	M	Pentachloroethane	0.302	0.300	0.7	100	0.00
10	S	Phenol-d5	0.816	0.875	-7.2	100	0.00
11	M	Phenol	1.009	1.053	-4.4	100	0.00
12	M	Bis(2-chloroethyl)ether	0.777	0.791	-1.8	100	0.00
13	M	2-Chlorophenol	0.754	0.757	-0.4	100	0.00
14	M	1,3-Dichlorobenzene	0.801	0.840	-4.9	100	0.00
15	M	1,4-Dichlorobenzene	0.873	0.875	-0.2	100	0.00
16	M	1,2-Dichlorobenzene	0.821	0.824	-0.4	100	0.00
17	M	Benzyl alcohol	0.432	0.448	-3.7	100	0.00
18	M	bis(2-Chloroisopropyl)ether	0.275	0.278	-1.1	100	0.00
19	M	2-Methylphenol	0.671	0.712	-6.1	100	0.00
20	M	Acetophenone	1.051	1.064	-1.2	100	0.00
21	M	o-Toluidine	1.045	1.157	-10.7	100	0.00
22	M	Hexachloroethane	0.322	0.319	0.9	100	0.00
23	M	N-Nitroso-di-n-propylamine	0.585	0.616	-5.3	100	0.00
24	M	3-&/or 4-Methylphenol	1.069	1.182	-10.6	100	0.00
25	I	Naphthalene-d8	1.000	1.000	0.0	100	0.00
26	S	Nitrobenzene-d5	0.375	0.383	-2.1	100	0.00
27	M	Nitrobenzene	0.176	0.175	0.6	100	0.00
28	M	N-Nitrosopiperidine	0.171	0.172	-0.6	100	0.00
29	M	Isophorone	0.738	0.757	-2.6	100	0.00
30	M	2-Nitrophenol	0.185	0.180	2.7	100	0.00
31	M	2,4-Dimethylphenol	0.357	0.369	-3.4	100	0.00
32	M	o,o,o-Triethylphosphorothio	0.207	0.211	-1.9	100	0.00
33	M	Bis(2-chloroethoxy)methane	0.426	0.404	5.2	100	0.00
34	M	2,4-Dichlorophenol	0.254	0.267	-5.1	100	0.00
35	M	1,2,4-Trichlorobenzene	0.340	0.333	2.1	100	0.00
36	M	Naphthalene	0.979	1.023	-4.5	100	0.00
37	M	Hexachloropropene	0.211	0.207	1.9	100	0.00
38	M	4-Choroaniline	0.264	0.360	-36.4#	100	0.00
39	M	Hexachlorobutadiene	0.217	0.216	0.5	100	0.00
40	M	N-Nitrosodi-n-butylamine	0.259	0.266	-2.7	100	0.00

(#) = Out of Range

Data File : D:\BPARUCHU\DATA\1C063003\1C063002.D Vial: 2
Acq On : 30 Jun 2003 12:15 pm Operator: BP
Sample : ABN CC 25 PPB Inst : GCMS1
Misc : WO # 0305007 & 0306008 PAHs Multiplr: 1.00
MS Integration Params: rteint.p

Method : D:\BPARUCHU\METHODS\1C630261.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002
Last Update : Tue Jul 01 13:26:38 2003
Response via : Single Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
41	M	4-Chloro-3-methylphenol	0.291	0.312	-7.2	100	0.00
42	M	Safrole	0.284	0.287	-1.1	100	0.00
43	M	2-Methylnaphthalene	0.690	0.715	-3.6	100	0.00
44	I	Acenaphthene-d10	1.000	1.000	0.0	100	0.00
45	M	Hexachlorocyclopentadiene	0.164	0.175	-6.7	100	0.00
46	M	1,2,4,5-Tetrachlorobenzene	0.517	0.512	1.0	100	0.00
47	M	2,4,6-Trichlorophenol	0.311	0.316	-1.6	100	0.00
48	M	2,4,5-Trichlorophenol	0.316	0.318	-0.6	100	0.00
49	S	2-Fluorobiphenyl	1.080	1.108	-2.6	100	0.00
50	M	Isosafrole	0.411	0.422	-2.7	100	0.00
51	M	2-Chloronaphthalene	1.008	1.018	-1.0	100	0.00
52	M	2-Nitroaniline	0.322	0.327	-1.6	100	0.00
53	M	1,4-Naphthoquinone	0.248	0.268	-8.1	100	0.00
54	M	Dimethylphthalate	1.228	1.232	-0.3	100	0.00
55	M	2,6-Dinitrotoluene	0.290	0.290	0.0	100	0.00
56	M	1,3-Dinitrobenzene	0.195	0.197	-1.0	100	0.00
57	M	Acenaphthylene	1.589	1.631	-2.6	100	0.00
58	M	3-Nitroaniline	0.230	0.248	-7.8	100	0.00
59	M	Acenaphthene	1.044	1.053	-0.9	100	0.00
60	M	2,4-Dinitrophenol	0.080	0.063	21.3	100	0.00
61	M	Pentachlorobenzene	0.489	0.480	1.8	100	0.00
62	M	Dibenzofuran	1.459	1.495	-2.5	100	0.00
63	M	2,4-Dinitrotoluene	0.369	0.378	-2.4	100	0.00
64	M	4-Nitrophenol	0.022	0.085	-286.4#	100	0.00
65	M	Diethylphthalate	1.228	1.244	-1.3	100	0.00
66	M	Fluorene	1.256	1.275	-1.5	100	0.00
67	M	4-Chlorophenylphenyl ether	0.673	0.676	-0.4	100	0.00
68	M	Thionazin	0.286	0.303	-5.9	100	0.00
69	M	5-Nitro-o-toluidine	0.309	0.318	-2.9	100	0.00
70	M	4-Nitroaniline	0.134	0.223	-66.4#	100	0.00
71	I	Phenanthrene-d10	1.000	1.000	0.0	100	0.00
72	M	2-Methyl-4,6-dinitrophenol	0.094	0.102	-8.5	100	0.00
73	M	Diphenylamine	0.653	0.655	-0.3	100	0.00
74	M	Azobenzene	0.795	0.802	-0.9	100	0.00
75	S	2,4,6-Tribromophenol	0.096	0.093	3.1	100	0.00
76	M	Sulfotep	0.161	0.157	2.5	100	0.00
77	M	Phorate	0.074	0.073	1.4	100	0.00
78	M	Diallate	0.264	0.270	-2.3	100	0.00
79	M	4-Bromophenyl phenyl ether	0.237	0.231	2.5	100	0.00

(#) = Out of Range

Data File : D:\BPARUCHU\DATA\1C063003\1C063002.D Vial: 2
Acq On : 30 Jun 2003 12:15 pm Operator: BP
Sample : ABN CC 25 PPB Inst : GCMS1
Misc : WO # 0305007 & 0306008 PAHs Multiplr: 1.00
MS Integration Params: rteint.p

Method : D:\BPARUCHU\METHODS\1C630261.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002
Last Update : Tue Jul 01 13:26:38 2003
Response via : Single Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
80	M	Alpha-BHC	0.160	0.164	-2.5	100	0.00
81	M	Phenacetin	0.227	0.224	1.3	100	0.00
82	M	1,3,5-Trinitrobenzene	0.062	0.069	-11.3	100	0.00
83	M	Hexachlorobenzene	0.240	0.234	2.5	100	0.00
84	M	Dimethoate	0.237	0.270	-13.9	100	0.00
85	M	Beta-BHC	0.134	0.139	-3.7	100	0.00
86	M	Pentachloronitrobenzene	0.040	0.043	-7.5	100	0.00
87	M	4-Aminobiphenyl	0.381	0.390	-2.4	100	0.00
88	M	Pentachlorophenol	0.099	0.113	-14.1	100	0.00
89	M	Delta-BHC	0.130	0.134	-3.1	100	0.00
90	M	Pronamide	0.351	0.350	0.3	100	0.00
91	M	Phenanthrene	1.077	1.109	-3.0	100	0.00
92	M	Dinoseb	0.161	0.171	-6.2	100	0.00
93	M	Disulfoton	0.486	0.508	-4.5	100	0.00
94	M	Anthracene	1.102	1.137	-3.2	100	0.00
95	M	Gamma-BHC	0.126	0.129	-2.4	100	0.00
96	M	Carbazole	0.908	0.949	-4.5	100	0.00
97	M	Methyl Parathion	0.143	0.158	-10.5	100	0.00
98	M	Heptachlor	0.106	0.106	0.0	100	0.00
99	M	Di-n-butylphthalate	1.198	1.268	-5.8	100	0.00
100	M	Aldrin	0.106	0.106	0.0	100	0.00
101	M	Ethyl Parathion	0.148	0.151	-2.0	100	0.00
102	M	Isodrin	0.138	0.137	0.7	100	0.00
103	M	Heptachlor Epoxide	0.075	0.073	2.7	100	0.00
104	M	Fluoranthene	1.219	1.265	-3.8	100	0.00
105	I	Chrysene-d12	1.000	1.000	0.0	100	0.00
106	M	Pyrene	1.128	1.158	-2.7	100	0.00
107	M	p,p'-DDE	0.280	0.277	1.1	100	0.00
108	S	Terphenyl-d14	0.807	0.838	-3.8	100	0.00
109	M	Dieldrin	0.192	0.192	0.0	100	0.00
110	M	p-Dimethylaminoazobenzene	0.264	0.267	-1.1	100	0.00
111	M	Chlorobenzilate	0.386	0.381	1.3	100	0.00
112	M	Endrin	0.046	0.047	-2.2	100	0.00
113	M	p,p'-DDD	0.480	0.494	-2.9	100	0.00
114	M	Endrin Aldehyde	0.004	0.003	25.0	100	0.00
115	M	Famphur	0.077	0.094	-22.1	100	0.00
116	M	Butylbenzylphthalate	0.529	0.542	-2.5	100	0.00
117	M	Endosulfan Sulfate	0.311	0.331	-6.4	100	0.00
118	M	2-Acetylaminofluorene	0.366	0.414	-13.1	100	0.00
119	M	Endrin Ketone	0.562	0.624	-11.0	100	0.00

(#) = Out of Range

Data File : D:\BPARUCHU\DATA\1C063003\1C063002.D Vial: 2
Acq On : 30 Jun 2003 12:15 pm Operator: BP
Sample : ABN CC 25 PPB Inst : GCMS1
Misc : WO # 0305007 & 0306008 PAHs Multiplr: 1.00
MS Integration Params: rteint.p

Method : D:\BPARUCHU\METHODS\1C630261.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002
Last Update : Tue Jul 01 13:26:38 2003
Response via : Single Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
120	M	Methoxychlor	0.562	0.624	-11.0	100	0.00
121	M	Benz(a)anthracene	1.144	1.197	-4.6	100	0.00
122	M	3,3'-Dichlorobenzidine	0.255	0.277	-8.6	100	0.00
123	M	Bis(2-ethylhexyl)phthalate	0.758	0.824	-8.7	100	0.00
124	M	Chrysene	1.019	1.068	-4.8	100	0.00
125	I	Perylene-d12	1.000	1.000	0.0	100	0.00
126	M	Di-n-octylphthalate	1.910	1.994	-4.4	100	0.00
127	M	7,12-Dimethylbenz(a)anthrac	0.800	0.790	1.3	100	0.00
128	M	Benzo[b]fluoranthene	1.615	1.698	-5.1	100	0.00
129	M	Benzo(k)fluoranthene	1.564	1.633	-4.4	100	0.00
130	M	Benzo(a)pyrene	1.374	1.379	-0.4	100	0.00
131	M	3-Methylcholanthrene	0.584	0.600	-2.7	100	0.00
132	M	Indeno[1,2,3,cd]pyrene	1.073	1.167	-8.8	100	0.00
133	M	Dibenz(a,h)anthracene	0.898	0.988	-10.0	100	0.00
134	M	Benzo(g,h,i)perylene	0.839	0.955	-13.8	100	0.00

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

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

Lab Blank0527

Lab Name: Indiana Harbor Contract: ML-10C

Lab Code: USEPA-R5 Case No.: 0305007 SAS No.: GCMS SDG No.:

Lab File ID: 1C060207.D Lab Sample ID: B305027-BLK1

Instrument ID: Date Extracted: 5/27/03

Matrix: (soil/water) SOIL Date Analyzed: 6/2/03

Level: (low/med) LOW Time Analyzed: 19:18

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	0305007-40MD	B305027-MSD1 @ INDIA	1C063019.D	7/1/03

COMMENTS:

4B

EPA SAMPLE NO.

SEMIVOLATILE METHOD BLANK SUMMARY

Lab Blank0604

Lab Name: Indiana Harbor Contract: ML-10C

Lab Code: USEPA-R5 Case No.: 0305007 SAS No.: GCMS SDG No.:

Lab File ID: 1C063020.D Lab Sample ID: B306001-BLK1 @ I

Instrument ID: Date Extracted: 6/4/03

Matrix: (soil/water) SOIL Date Analyzed: 7/1/03

Level: (low/med) LOW Time Analyzed: 2:11

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	LAB SPIKED604	B306001-BSD1 @ INDIA	1C063022.D	7/1/03
02	LAB SPIKE0604	B306001-BS1 @ INDIAN	1C063023.D	7/1/03

COMMENTS:

4B

EPA SAMPLE NO.

SEMIVOLATILE METHOD BLANK SUMMARY

Lab Blank0612

Lab Name: Indiana Harbor Contract: ML-10C

Lab Code: USEPA-R5 Case No.: 0305007 SAS No.: GCMS SDG No.:

Lab File ID: 1C063024.D Lab Sample ID: B306014-BLK1 @ I

Instrument ID: Date Extracted: 6/12/03

Matrix: (soil/water) SOIL Date Analyzed: 7/1/03

Level: (low/med) LOW Time Analyzed: 5:17

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	LAB SPIKE0612	B306014-BS1 @ INDIAN	1C063025.D	7/1/03
02	LABSPIKED612	B306014-BSD1 @ INDIA	1C063026.D	7/1/03
03	0305007-37	0305007-37 @ IND. HAR	1C063036.D	7/1/03

COMMENTS:

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Indiana Harbor Contract: ML-10C

Lab Code: USEPA-R5 Case No.: 0305007 SAS No.: GCMS SDG No.:

Lab File ID: 1C063017.D DFTPP Injection Date: 6/30/03

Instrument ID: DFTPP Injection Time: 23:52

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	36.1
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 Relative abundance	37.3
70	Less than 2.0% of mass 69	0.2 (0.6)1
127	25.0 - 75.0% of mass 198	43.3
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 30.0% of mass 198	29.0
365	Greater than 0.75% of mass 198	3.5
441	Present, but less than mass 443	11.1
442	40.0 - 110.0% of mass 198	76.6
443	15.0 - 24.0% of mass 442	14.6 (19.1)2

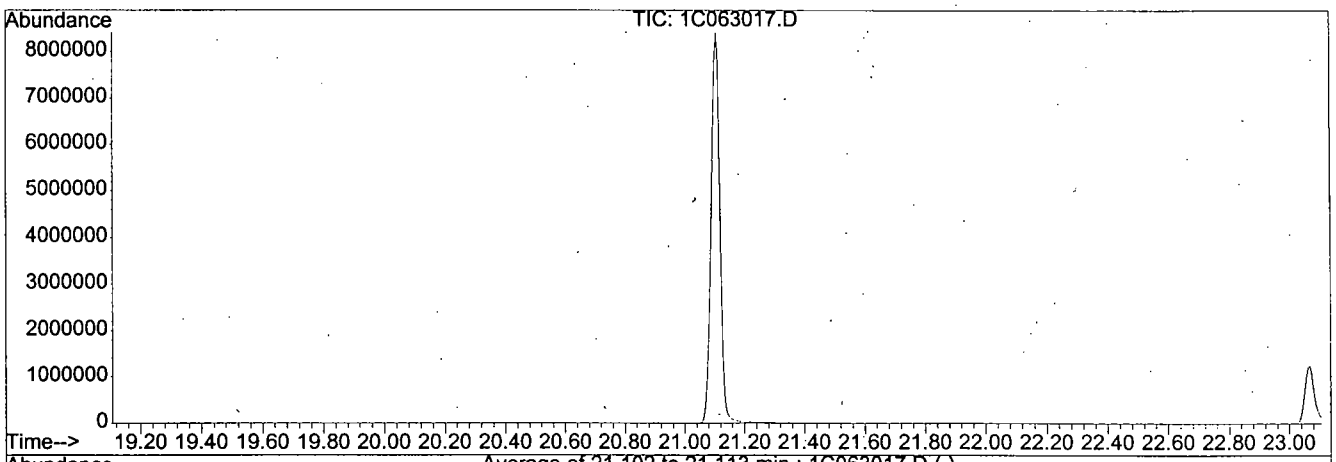
1-Value is % mass 69 2-Value is % mass 442

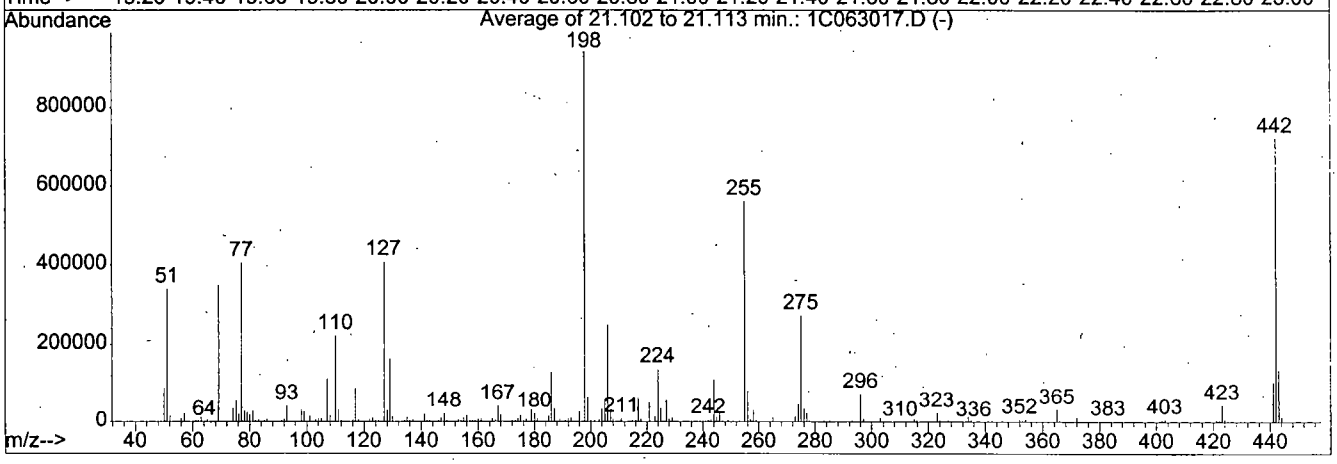
THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD0630B	ABN CC 25 NG @ USS C	1C063018.D	7/1/03	0:38
02	0305007-40MD	B305027-MSD1 @ INDIA	1C063019.D	7/1/03	1:25
03	LAB BLANK0604	B306001-BLK1 @ INDIA	1C063020.D	7/1/03	2:11
04	LAB SPIKED604	B306001-BSD1 @ INDIA	1C063022.D	7/1/03	3:44
05	LAB SPIKE0604	B306001-BS1 @ INDIAN	1C063023.D	7/1/03	4:31
06	LAB BLANK0612	B306014-BLK1 @ INDIA	1C063024.D	7/1/03	5:17
07	LAB SPIKE0612	B306014-BS1 @ INDIAN	1C063025.D	7/1/03	6:04
08	LABSPIKED612	B306014-BSD1 @ INDIA	1C063026.D	7/1/03	6:50

DFTPP for METHOD 625SAS

Data File : D:\BPARUCHU\DATA\1C063003\1C063017.D Vial: 1
Acq On : 30 Jun 2003 11:52 pm Operator: BP
Sample : DFTPP 50 ng @ USS CELL B Inst : GCMS1
Misc : 0306008 & 0305007 PAHs Multiplr: 1.00
MS Integration Params: rteint.p
Method : D:\BPARUCHU\METHODS\1C630262.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002





Spectrum Information: Average of 21.102 to 21.113 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	80	36.1	340309	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.01	100	37.3	351872	PASS
70	69	0.00	2	0.6	1944	PASS
127	198	25	75	43.3	408640	PASS
197	198	0.00	1	0.0	0	PASS
198	198	90	100	100.0	943531	PASS
199	198	5	9	6.9	65328	PASS
275	198	10	30	29.0	273643	PASS
365	198	0.75	100	3.5	33480	PASS
441	443	0.01	100	76.0	104931	PASS
442	198	40	110	76.6	723072	PASS
443	442	15	24	19.1	138003	PASS

1C063017.D 1C630262.M Wed Jul 02 12:02:54 2003 TEST

Data File : D:\BPARUCHU\DATA\1C063003\1C063018.D Vial: 2
Acq On : 1 Jul 2003 12:38 am Operator: BP
Sample : ABN CC 25 ng @ USS CELL B Inst : GCMS1
Misc : 0306008 & 0305007 PAHs Multiplr: 1.00
MS Integration Params: rteint.p

Method : D:\BPARUCHU\METHODS\1C630262.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002
Last Update : Tue Jul 01 15:37:41 2003
Response via : Single Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	107	0.00
2	M	2-Picoline	0.791	0.786	0.6	104	0.00
3	M	N-Nitrosomethylethylamine	0.380	0.379	0.3	108	0.00
4	M	Methyl methanesulfonate	0.335	0.335	0.0	107	0.00
5	S	2-Fluorophenol	0.650	0.669	-2.9	107	0.00
6	M	N-Nitrosodiethylamine	0.372	0.369	0.8	108	0.00
7	M	Ethyl methanesulfonate	0.567	0.578	-1.9	108	0.00
8	M	Aniline	1.052	0.967	8.1	93	0.00
9	M	Pentachloroethane	0.302	0.312	-3.3	112	0.00
10	S	Phenol-d5	0.816	0.860	-5.4	106	0.00
11	M	Phenol	1.009	1.005	0.4	103	0.00
12	M	Bis(2-chloroethyl)ether	0.777	0.814	-4.8	111	0.00
13	M	2-Chlorophenol	0.754	0.765	-1.5	109	0.00
14	M	1,3-Dichlorobenzene	0.801	0.862	-7.6	110	0.00
15	M	1,4-Dichlorobenzene	0.873	0.883	-1.1	108	0.00
16	M	1,2-Dichlorobenzene	0.821	0.828	-0.9	108	0.00
17	M	Benzyl alcohol	0.432	0.322	25.5#	77	0.00
18	M	bis(2-Chloroisopropyl)ether	0.275	0.279	-1.5	108	0.00
19	M	2-Methylphenol	0.671	0.736	-9.7	111	0.00
20	M	Acetophenone	1.051	1.096	-4.3	111	0.00
21	M	o-Toluidine	1.045	1.057	-1.1	98	0.00
22	M	Hexachloroethane	0.322	0.337	-4.7	114	0.00
23	M	N-Nitroso-di-n-propylamine	0.585	0.597	-2.1	104	0.00
24	M	3-&/or 4-Methylphenol	1.069	1.195	-11.8	109	0.00
25	I	Naphthalene-d8	1.000	1.000	0.0	107	0.00
26	S	Nitrobenzene-d5	0.375	0.386	-2.9	108	0.00
27	M	Nitrobenzene	0.176	0.178	-1.1	109	0.00
28	M	N-Nitrosopiperidine	0.171	0.171	0.0	106	0.00
29	M	Isophorone	0.738	0.752	-1.9	106	0.00
30	M	2-Nitrophenol	0.185	0.191	-3.2	114	0.00
31	M	2,4-Dimethylphenol	0.357	0.368	-3.1	107	0.00
32	M	o,o,o-Triethylphosphorothio	0.207	0.215	-3.9	110	0.00
33	M	Bis(2-chloroethoxy)methane	0.426	0.404	5.2	107	0.00
34	M	2,4-Dichlorophenol	0.254	0.265	-4.3	106	0.00
35	M	1,2,4-Trichlorobenzene	0.340	0.343	-0.9	110	0.00
36	M	Naphthalene	0.979	1.015	-3.7	106	0.00
37	M	Hexachloropropene	0.211	0.232	-10.0	120	0.00
38	M	4-Choroaniline	0.264	0.245	7.2	73	0.00
39	M	Hexachlorobutadiene	0.217	0.221	-1.8	109	0.00
40	M	N-Nitrosodi-n-butylamine	0.259	0.258	0.4	104	0.00

(#) = Out of Range

Data File : D:\BPARUCHU\DATA\1C063003\1C063018.D Vial: 2
Acq On : 1 Jul 2003 12:38 am Operator: BP
Sample : ABN CC 25 ng @ USS CELL B Inst : GCMS1
Misc : 0306008 & 0305007 PAHs Multiplr: 1.00
MS Integration Params: rteint.p

Method : D:\BPARUCHU\METHODS\1C630262.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002
Last Update : Tue Jul 01 15:37:41 2003
Response via : Single Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
41	M	4-Chloro-3-methylphenol	0.291	0.294	-1.0	101	0.00
42	M	Safrole	0.284	0.289	-1.8	108	0.00
43	M	2-Methylnaphthalene	0.690	0.712	-3.2	107	0.00
44	I	Acenaphthene-d10	1.000	1.000	0.0	105	0.00
45	M	Hexachlorocyclopentadiene	0.164	0.177	-7.9	106	0.00
46	M	1,2,4,5-Tetrachlorobenzene	0.517	0.527	-1.9	108	0.00
47	M	2,4,6-Trichlorophenol	0.311	0.311	0.0	103	0.00
48	M	2,4,5-Trichlorophenol	0.316	0.295	6.6	97	0.00
49	S	2-Fluorobiphenyl	1.080	1.138	-5.4	108	0.00
50	M	Isosafrole	0.411	0.420	-2.2	105	0.00
51	M	2-Chloronaphthalene	1.008	1.036	-2.8	107	0.00
52	M	2-Nitroaniline	0.322	0.336	-4.3	108	0.00
53	M	1,4-Naphthoquinone	0.248	0.260	-4.8	102	0.00
54	M	Dimethylphthalate	1.228	1.247	-1.5	106	0.00
55	M	2,6-Dinitrotoluene	0.290	0.300	-3.4	109	0.00
56	M	1,3-Dinitrobenzene	0.195	0.211	-8.2	112	0.00
57	M	Acenaphthylene	1.589	1.642	-3.3	106	0.00
58	M	3-Nitroaniline	0.230	0.195	15.2	82	0.00
59	M	Acenaphthene	1.044	1.052	-0.8	105	0.00
60	M	2,4-Dinitrophenol	0.080	0.062	22.5	103	0.00
61	M	Pentachlorobenzene	0.489	0.490	-0.2	107	0.00
62	M	Dibenzofuran	1.459	1.506	-3.2	106	0.00
63	M	2,4-Dinitrotoluene	0.369	0.389	-5.4	108	0.00
64	M	4-Nitrophenol	0.022	0.001	95.5#	2#	0.00
65	M	Diethylphthalate	1.228	1.252	-2.0	106	0.00
66	M	Fluorene	1.256	1.278	-1.8	105	0.00
67	M	4-Chlorophenylphenyl ether	0.673	0.682	-1.3	106	0.00
68	M	Thionazin	0.286	0.301	-5.2	104	0.00
69	M	5-Nitro-o-toluidine	0.309	0.299	3.2	99	0.00
70	M	4-Nitroaniline	0.134	0.209	-56.0#	98	0.00
71	I	Phenanthrene-d10	1.000	1.000	0.0	103	0.00
72	M	2-Methyl-4,6-dinitrophenol	0.094	0.121	-28.7#	122	0.00
73	M	Diphenylamine	0.653	0.666	-2.0	105	0.00
74	M	Azobenzene	0.795	0.805	-1.3	103	0.00
75	S	2,4,6-Tribromophenol	0.096	0.097	-1.0	107	0.00
76	M	Sulfotep	0.161	0.166	-3.1	109	0.00
77	M	Phorate	0.074	0.075	-1.4	106	0.00
78	M	Diallate	0.264	0.275	-4.2	105	0.00
79	M	4-Bromophenyl phenyl ether	0.237	0.235	0.8	105	0.00

(#) = Out of Range

Data File : D:\BPARUCHU\DATA\1C063003\1C063018.D Vial: 2
Acq On : 1 Jul 2003 12:38 am Operator: BP
Sample : ABN CC 25 ng @ USS CELL B Inst : GCMS1
Misc : 0306008 & 0305007 PAHs Multiplr: 1.00
MS Integration Params: rteint.p

Method : D:\BPARUCHU\METHODS\1C630262.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002
Last Update : Tue Jul 01 15:37:41 2003
Response via : Single Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
80	M	Alpha-BHC	0.160	0.165	-3.1	104	0.00
81	M	Phenacetin	0.227	0.222	2.2	102	0.00
82	M	1,3,5-Trinitrobenzene	0.062	0.071	-14.5	106	0.00
83	M	Hexachlorobenzene	0.240	0.243	-1.3	107	0.00
84	M	Dimethoate	0.237	0.262	-10.5	100	0.00
85	M	Beta-BHC	0.134	0.137	-2.2	101	0.00
86	M	Pentachloronitrobenzene	0.040	0.045	-12.5	107	0.00
87	M	4-Aminobiphenyl	0.381	0.341	10.5	90	0.00
88	M	Pentachlorophenol	0.099	0.101	-2.0	92	0.00
89	M	Delta-BHC	0.130	0.137	-5.4	105	0.00
90	M	Pronamide	0.351	0.360	-2.6	106	0.00
91	M	Phenanthrene	1.077	1.112	-3.2	103	0.00
92	M	Dinoseb	0.161	0.203	-26.1#	123	0.00
93	M	Disulfoton	0.486	0.510	-4.9	103	0.00
94	M	Anthracene	1.102	1.145	-3.9	104	0.00
95	M	Gamma-BHC	0.126	0.129	-2.4	103	0.00
96	M	Carbazole	0.908	0.949	-4.5	103	0.00
97	M	Methyl Parathion	0.143	0.154	-7.7	100	0.00
98	M	Heptachlor	0.106	0.112	-5.7	108	0.00
99	M	Di-n-butylphthalate	1.198	1.276	-6.5	104	0.00
100	M	Aldrin	0.106	0.107	-0.9	104	0.00
101	M	Ethyl Parathion	0.148	0.155	-4.7	106	0.00
102	M	Isodrin	0.138	0.140	-1.4	105	0.00
103	M	Heptachlor Epoxide	0.075	0.076	-1.3	108	0.00
104	M	Fluoranthene	1.219	1.270	-4.2	103	0.00
105	I	Chrysene-d12	1.000	1.000	0.0	99	0.00
106	M	Pyrene	1.128	1.199	-6.3	103	0.00
107	M	p,p'-DDE	0.280	0.294	-5.0	105	0.00
108	S	Terphenyl-d14	0.807	0.875	-8.4	104	0.00
109	M	Dieldrin	0.192	0.201	-4.7	104	0.00
110	M	p-Dimethylaminoazobenzene	0.264	0.280	-6.1	104	0.00
111	M	Chlorobenzilate	0.386	0.406	-5.2	106	0.00
112	M	Endrin	0.046	0.051	-10.9	109	0.00
113	M	p,p'-DDD	0.480	0.486	-1.3	98	0.00
114	M	Endrin Aldehyde	0.004	0.004	0.0	108	0.00
115	M	Famphur	0.077	0.046	40.3#	49#	0.00
116	M	Butylbenzylphthalate	0.529	0.560	-5.9	103	0.00
117	M	Endosulfan Sulfate	0.311	0.388	-24.8	116	0.00
118	M	2-Acetylaminofluorene	0.366	0.392	-7.1	94	0.00
119	M	Endrin Ketone	0.562	0.741	-31.9#	118	0.00

(#) = Out of Range

Data File : D:\BPARUCHU\DATA\1C063003\1C063018.D Vial: 2
Acq On : 1 Jul 2003 12:38 am Operator: BP
Sample : ABN CC 25 ng @ USS CELL B Inst : GCMS1
Misc : 0306008 & 0305007 PAHs Multiplr: 1.00
MS Integration Params: rteint.p

Method : D:\BPARUCHU\METHODS\1C630262.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002
Last Update : Tue Jul 01 15:37:41 2003
Response via : Single Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
120	M	Methoxychlor	0.562	0.741	-31.9#	118	0.00
121	M	Benz(a)anthracene	1.144	1.184	-3.5	98	0.00
122	M	3,3'-Dichlorobenzidine	0.255	0.267	-4.7	96	0.00
123	M	Bis(2-ethylhexyl)phthalate	0.758	0.840	-10.8	101	0.00
124	M	Chrysene	1.019	1.080	-6.0	100	0.00
125	I	Perylene-d12	1.000	1.000	0.0	95	0.00
126	M	Di-n-octylphthalate	1.910	2.077	-8.7	99	0.00
127	M	7,12-Dimethylbenz(a)anthrac	0.800	0.814	-1.7	98	0.00
128	M	Benzo[b]fluoranthene	1.615	1.633	-1.1	91	0.00
129	M	Benzo(k)fluoranthene	1.564	1.509	3.5	88	0.00
130	M	Benzo(a)pyrene	1.374	1.382	-0.6	95	0.00
131	M	3-Methylcholanthrene	0.584	0.626	-7.2	99	0.00
132	M	Indeno[1,2,3,cd]pyrene	1.073	1.051	2.1	86	0.00
133	M	Dibenz(a,h)anthracene	0.898	0.866	3.6	83	0.00
134	M	Benzo(g,h,i)perylene	0.839	0.871	-3.8	87	0.00

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

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Indiana Harbor Contract: ML-10C

Lab Code: USEPA-R5 Case No.: 0305007 SAS No.: GCMS SDG No.:

Lab File ID (Standard): 1C063018.D Date Analyzed: 7/1/03

Instrument ID: Time Analyzed: 0:38

		IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
	12 HOUR STD	4562376	8.81	10042093	11.87	6602389	16.36
	UPPER LIMIT	9124752	9.31	20084186	12.37	13204778	16.86
	LOWER LIMIT	2281188	8.31	5021047	11.37	3301195	15.86
	EPA SAMPLE NO.						
01	0305007-40MD	4160310	8.80	9305649	11.86	6134233	16.35
02	LAB BLANK0604	4127147	8.80	9301422	11.85	5950970	16.35
03	LAB SPIKED604	4441421	8.81	9780934	11.87	6379485	16.37
04	LAB SPIKE0604	4337009	8.81	9484094	11.88	6285390	16.37
05	LAB BLANK0612	3608840	8.79	8199625	11.85	5020922	16.35
06	LAB SPIKE0612	4068756	8.80	9035098	11.87	5925013	16.36
07	LABSPIKED612	4349388	8.81	9550614	11.87	6206130	16.37

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8
IS3 = Acenaphthene-d10
IS4 = Phenanthrene-d10
IS5 = Chrysene-d12
IS6 = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.
* Values outside of contract required QC limits

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Indiana Harbor Contract: ML-10C

Lab Code: USEPA-R5 Case No.: 0305007 SAS No.: GCMS SDG No.:

Lab File ID (Standard): 1C063018.D Date Analyzed: 07/01/03

Instrument ID: Time Analyzed: 00:38

		IS4 AREA #	RT #	IS5 AREA #	RT #	IS6 AREA #	RT #
	12 HOUR STD	10902491	20.23	11853670	26.23	7268124	28.98
	UPPER LIMIT	21804982	19.73	23707340	25.73	14536248	28.48
	LOWER LIMIT	5451246	20.73	5926835	26.73	3634062	29.48
	EPA SAMPLE NO.						
01	0305007-40M7	10183811	20.21	11061121	26.22	6241502	28.97
02	LAB BLANK06	10700845	20.21	10706087	26.22	5105159	28.98
03	LAB SPIKED6	10657770	20.24	11461405	26.24	7496120	28.99
04	LAB SPIKE06	10602755	20.24	11499872	26.25	7396743	28.99
05	LAB BLANK06	9106136	20.21	9101069	26.22	4776716	28.99
06	LAB SPIKE06	9991775	20.23	10766614	26.24	6931387	28.99
07	LABSPIKED6	10427501	20.24	11182804	26.24	7433321	28.99

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8
IS3 = Acenaphthene-d10
IS4 = Phenanthrene-d10
IS5 = Chrysene-d12
IS6 = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.
* Values outside of contract required QC limits

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Indiana Harbor Contract: ML-10C

Lab Code: USEPA-R5 Case No.: 0305007 SAS No.: GCMS SDG No.:

Lab File ID: 1C070101.D DFTPP Injection Date: 7/1/03

Instrument ID: DFTPP Injection Time: 12:31

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	34.5
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 Relative abundance	35.7
70	Less than 2.0% of mass 69	0.2 (0.6)1
127	25.0 - 75.0% of mass 198	43.4
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 30.0% of mass 198	28.7
365	Greater than 0.75% of mass 198	3.4
441	Present, but less than mass 443	10.7
442	40.0 - 110.0% of mass 198	73.1
443	15.0 - 24.0% of mass 442	14.1 (19.3)2

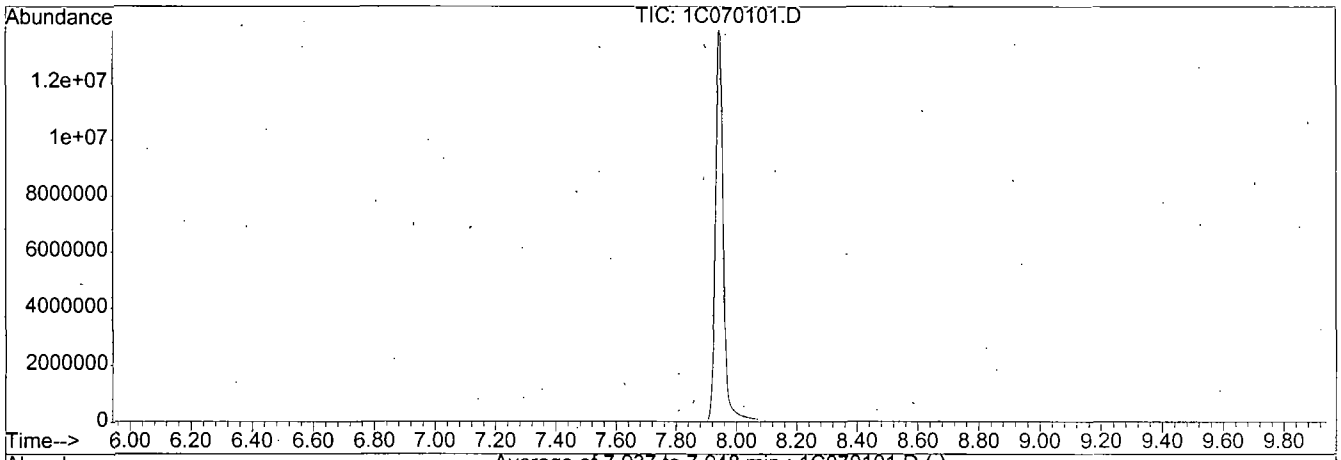
1-Value is % mass 69 2-Value is % mass 442

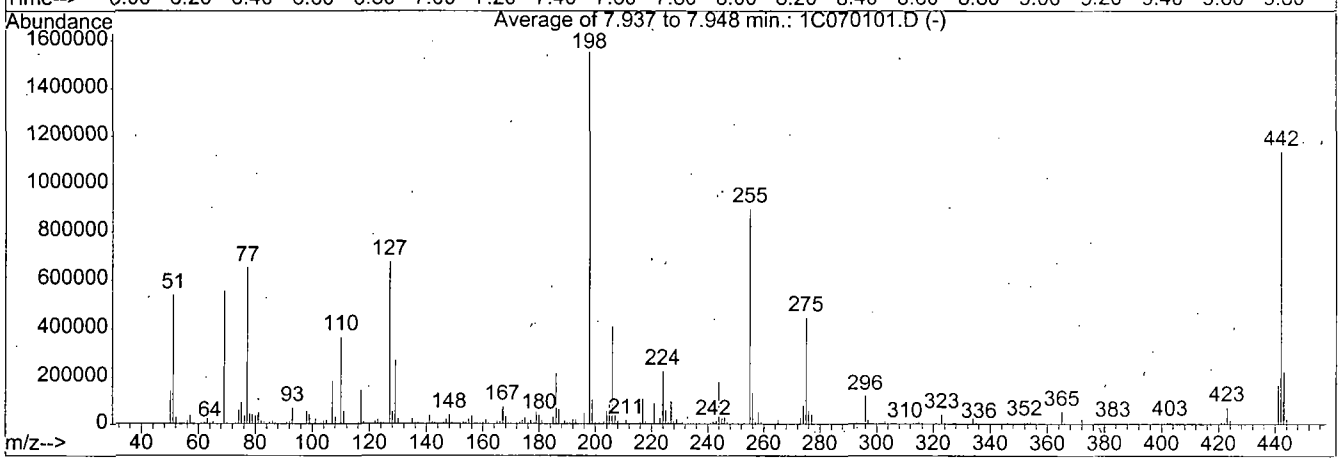
THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD0701	ABN CC 25 PPM @ USS/	1C063034.D	7/1/03	12:52
02	0305007-37	0305007-37 @ IND. HAR	1C063036.D	7/1/03	14:25

DFTPP for METHOD 625SAS

Data File : D:\BPARUCHU\DATA\1C070103\1C070101.D Vial: 1
Acq On : 1 Jul 2003 12:31 pm Operator: BP
Sample : DFTPP 50ng @ Inst : GCMS1
Misc : WO # 0305007 & 0306008 PAHs Multiplr: 1.00
MS Integration Params: rteint.p
Method : D:\BPARUCHU\METHODS\1C701261.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002





Spectrum Information: Average of 7.937 to 7.948 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	80	34.5	535509	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.01	100	35.7	553920	PASS
70	69	0.00	2	0.6	3438	PASS
127	198	25	75	43.4	673109	PASS
197	198	0.00	1	0.0	0	PASS
198	198	90	100	100.0	1551360	PASS
199	198	5	9	6.8	105288	PASS
275	198	10	30	28.7	444672	PASS
365	198	0.75	100	3.4	52347	PASS
441	443	0.01	100	75.5	165531	PASS
442	198	40	110	73.1	1134059	PASS
443	442	15	24	19.3	219221	PASS

1C070101.D 1C701261.M Tue Jul 01 12:43:32 2003 TEST

Evaluate Continuing Calibration Report

Data File : D:\BPARUCHU\DATA\1C070103\1C063034.D Vial: 2
Acq On : 1 Jul 2003 12:52 pm Operator: BP
Sample : ABN cc 25 ppm @ USS/ind harbor Inst : GCMS1
Misc : 0306008 05007 g/ mL/ %S PAHs Multiplr: 1.00
MS Integration Params: rteint.p

Method : D:\BPARUCHU\METHODS\1C701261.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002
Last Update : Wed Jul 02 10:16:42 2003
Response via : Single Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	101	0.00
2	M	2-Picoline	0.791	0.719	9.1	89	0.00
3	M	N-Nitrosomethylethylamine	0.380	0.380	0.0	102	0.00
4	M	Methyl methanesulfonate	0.335	0.330	1.5	99	0.00
5	S	2-Fluorophenol .6786	0.650	0.679	-4.5	102	0.00
6	M	N-Nitrosodiethylamine	0.372	0.366	1.6	101	0.00
7	M	Ethyl methanesulfonate	0.567	0.576	-1.6	101	0.00
8	M	Aniline	1.052	1.048	0.4	94	0.00
9	M	Pentachloroethane	0.302	0.318	-5.3	107	0.00
10	S	Phenol-d5	0.816	0.855	-4.8	98	0.00
11	M	Phenol	1.009	1.034	-2.5	99	0.00
12	M	Bis(2-chloroethyl)ether	0.777	0.820	-5.5	104	0.00
13	M	2-Chlorophenol	0.754	0.758	-0.5	101	0.00
14	M	1,3-Dichlorobenzene	0.801	0.847	-5.7	102	0.00
15	M	1,4-Dichlorobenzene	0.873	0.880	-0.8	101	0.00
16	M	1,2-Dichlorobenzene	0.821	0.829	-1.0	101	0.00
17	M	Benzyl alcohol	0.432	0.303	29.9#	68	0.00
18	M	bis(2-Chloroisopropyl)ether	0.275	0.279	-1.5	101	0.00
19	M	2-Methylphenol	0.671	0.755	-12.5	107	0.00
20	M	Acetophenone	1.051	1.085	-3.2	103	0.00
21	M	o-Toluidine	1.045	1.021	2.3	89	0.00
22	M	Hexachloroethane	0.322	0.340	-5.6	108	0.00
23	M	N-Nitroso-di-n-propylamine	0.585	0.588	-0.5	96	0.00
24	M	3-&/or 4-Methylphenol	1.069	1.168	-9.3	100	0.00
25	I	Naphthalene-d8	1.000	1.000	0.0	101	0.00
26	S	Nitrobenzene-d5	0.375	0.380	-1.3	100	0.00
27	M	Nitrobenzene	0.176	0.177	-0.6	102	0.00
28	M	N-Nitrosopiperidine	0.171	0.169	1.2	98	0.00
29	M	Isophorone	0.738	0.756	-2.4	100	0.00
30	M	2-Nitrophenol	0.185	0.190	-2.7	106	0.00
31	M	2,4-Dimethylphenol	0.357	0.361	-1.1	98	0.00
32	M	o,o,o-Triethylphosphorothio	0.207	0.214	-3.4	102	0.00
33	M	Bis(2-chloroethoxy)methane	0.426	0.400	6.1	100	0.00
34	M	2,4-Dichlorophenol	0.254	0.251	1.2	95	0.00
35	M	1,2,4-Trichlorobenzene	0.340	0.340	0.0	103	0.00
36	M	Naphthalene	0.979	1.010	-3.2	99	0.00
37	M	Hexachloropropene	0.211	0.226	-7.1	110	0.00
38	M	4-Choroaniline	0.264	0.288	-9.1	81	0.00
39	M	Hexachlorobutadiene	0.217	0.223	-2.8	104	0.00
40	M	N-Nitrosodi-n-butylamine	0.259	0.252	2.7	96	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\BPARUCHU\DATA\1C070103\1C063034.D Vial: 2
Acq On : 1 Jul 2003 12:52 pm Operator: BP
Sample : ABN cc 25 ppm @ USS/ind harbor Inst : GCMS1
Misc : 0306008 05007 g/ mL/ %S PAHs Multiplr: 1.00
MS Integration Params: rteint.p

Method : D:\BPARUCHU\METHODS\1C701261.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002
Last Update : Wed Jul 02 10:16:42 2003
Response via : Single Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
41	M	4-Chloro-3-methylphenol	0.291	0.277	4.8	89	0.00
42	M	Safrole	0.284	0.285	-0.4	100	0.00
43	M	2-Methylnaphthalene	0.690	0.704	-2.0	99	0.00
44	I	Acenaphthene-d10	1.000	1.000	0.0	98	0.00
45	M	Hexachlorocyclopentadiene	0.164	0.156	4.9	87	0.00
46	M	1,2,4,5-Tetrachlorobenzene	0.517	0.525	-1.5	101	0.00
47	M	2,4,6-Trichlorophenol	0.311	0.305	1.9	95	0.00
48	M	2,4,5-Trichlorophenol	0.316	0.272	13.9	84	0.00
49	S	2-Fluorobiphenyl	1.080	1.139	-5.5	101	0.00
50	M	Isosafrole	0.411	0.411	0.0	96	0.00
51	M	2-Chloronaphthalene	1.008	1.040	-3.2	100	0.00
52	M	2-Nitroaniline	0.322	0.331	-2.8	99	0.00
53	M	1,4-Naphthoquinone	0.248	0.262	-5.6	96	0.00
54	M	Dimethylphthalate	1.228	1.249	-1.7	99	0.00
55	M	2,6-Dinitrotoluene	0.290	0.299	-3.1	101	0.00
56	M	1,3-Dinitrobenzene	0.195	0.207	-6.2	103	0.00
57	M	Acenaphthylene	1.589	1.639	-3.1	99	0.00
58	M	3-Nitroaniline	0.230	0.212	7.8	84	0.00
59	M	Acenaphthene	1.044	1.053	-0.9	98	0.00
60	M	2,4-Dinitrophenol	0.080	0.065	18.8	101	0.00
61	M	Pentachlorobenzene	0.489	0.491	-0.4	100	0.00
62	M	Dibenzofuran	1.459	1.504	-3.1	99	0.00
63	M	2,4-Dinitrotoluene	0.369	0.382	-3.5	99	0.00
64	M	4-Nitrophenol	0.022	0.001	95.5#	1#	0.00
65	M	Diethylphthalate	1.228	1.244	-1.3	98	0.00
66	M	Fluorene	1.256	1.262	-0.5	97	0.00
67	M	4-Chlorophenylphenyl ether	0.673	0.676	-0.4	98	0.00
68	M	Thionazin	0.286	0.296	-3.5	96	0.00
69	M	5-Nitro-o-toluidine	0.309	0.293	5.2	91	0.00
70	M	4-Nitroaniline	0.134	0.198	-47.8#	87	0.00
71	I	Phenanthrene-d10	1.000	1.000	0.0	96	0.00
72	M	2-Methyl-4,6-dinitrophenol	0.094	0.125	-33.0#	117	0.00
73	M	Diphenylamine	0.653	0.663	-1.5	97	0.00
74	M	Azobenzene	0.795	0.804	-1.1	96	0.00
75	S	2,4,6-Tribromophenol	0.096	0.094	2.1	97	0.00
76	M	Sulfotep	0.161	0.165	-2.5	101	0.00
77	M	Phorate	0.074	0.076	-2.7	100	0.00
78	M	Diallate	0.264	0.274	-3.8	97	0.00
79	M	4-Bromophenyl phenyl ether	0.237	0.234	1.3	97	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\BPARUCHU\DATA\1C070103\1C063034.D Vial: 2
Acq On : 1 Jul 2003 12:52 pm Operator: BP
Sample : ABN cc 25 ppm @ USS/ind harbor Inst : GCMS1
Misc : 0306008 05007 g/ mL/ %S PAHs Multiplr: 1.00
MS Integration Params: rteint.p

Method : D:\BPARUCHU\METHODS\1C701261.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002
Last Update : Wed Jul 02 10:16:42 2003
Response via : Single Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
80	M	Alpha-BHC	0.160	0.165	-3.1	96	0.00
81	M	Phenacetin	0.227	0.207	8.8	89	0.00
82	M	1,3,5-Trinitrobenzene	0.062	0.065	-4.8	90	0.00
83	M	Hexachlorobenzene	0.240	0.244	-1.7	100	0.00
84	M	Dimethoate	0.237	0.260	-9.7	92	0.00
85	M	Beta-BHC	0.134	0.136	-1.5	94	0.00
86	M	Pentachloronitrobenzene	0.040	0.045	-12.5	100	0.00
87	M	4-Aminobiphenyl	0.381	0.330	13.4	81	0.00
88	M	Pentachlorophenol	0.099	0.086	13.1	72	0.00
89	M	Delta-BHC	0.130	0.137	-5.4	97	0.00
90	M	Pronamide	0.351	0.359	-2.3	98	0.00
91	M	Phenanthrene	1.077	1.101	-2.2	95	0.00
92	M	Dinoseb	0.161	0.207	-28.6#	116	0.00
93	M	Disulfoton	0.486	0.500	-2.9	94	0.00
94	M	Anthracene	1.102	1.143	-3.7	96	0.00
95	M	Gamma-BHC	0.126	0.128	-1.6	95	0.00
96	M	Carbazole	0.908	0.933	-2.8	94	0.00
97	M	Methyl Parathion	0.143	0.154	-7.7	93	0.00
98	M	Heptachlor	0.106	0.114	-7.5	103	0.00
99	M	Di-n-butylphthalate	1.198	1.274	-6.3	96	0.00
100	M	Aldrin	0.106	0.107	-0.9	97	0.00
101	M	Ethyl Parathion	0.148	0.154	-4.1	98	0.00
102	M	Isodrin	0.138	0.141	-2.2	98	0.00
103	M	Heptachlor Epoxide	0.075	0.077	-2.7	100	0.00
104	M	Fluoranthene	1.219	1.273	-4.4	96	0.00
105	I	Chrysene-d12	1.000	1.000	0.0	91	0.00
106	M	Pyrene	1.128	1.219	-8.1	96	0.00
107	M	p,p'-DDE	0.280	0.292	-4.3	96	0.00
108	S	Terphenyl-d14	0.807	0.876	-8.6	96	0.00
109	M	Dieldrin	0.192	0.200	-4.2	95	0.00
110	M	p-Dimethylaminoazobenzene	0.264	0.275	-4.2	94	0.00
111	M	Chlorobenzilate	0.386	0.411	-6.5	99	0.00
112	M	Endrin	0.046	0.053	-15.2	104	0.00
113	M	p,p'-DDD	0.480	0.486	-1.3	90	0.00
114	M	Endrin Aldehyde	0.004	0.003	25.0	87	0.00
115	M	Famphur	0.077	0.070	9.1	69	0.00
116	M	Butylbenzylphthalate	0.529	0.559	-5.7	94	0.00
117	M	Endosulfan Sulfate	0.311	0.395	-27.0#	109	0.00
118	M	2-Acetylaminofluorene	0.366	0.366	0.0	81	0.00
119	M	Endrin Ketone	0.562	0.766	-36.3#	112	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\BPARUCHU\DATA\1C070103\1C063034.D Vial: 2
Acq On : 1 Jul 2003 12:52 pm Operator: BP
Sample : ABN cc 25 ppm @ USS/ind harbor Inst : GCMS1
Misc : 0306008 05007 g/ mL/ %S PAHs Multiplr: 1.00
MS Integration Params: rteint.p

Method : D:\BPARUCHU\METHODS\1C701261.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002
Last Update : Wed Jul 02 10:16:42 2003
Response via : Single Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
120	M	Methoxychlor	0.562	0.766	-36.3#	112	0.00
121	M	Benz(a)anthracene	1.144	1.149	-0.4	88	0.00
122	M	3,3'-Dichlorobenzidine	0.255	0.247	3.1	82	0.00
123	M	Bis(2-ethylhexyl)phthalate	0.758	0.840	-10.8	93	0.00
124	M	Chrysene	1.019	1.075	-5.5	92	0.00
125	I	Perylene-d12	1.000	1.000	0.0	88	0.00
126	M	Di-n-octylphthalate	1.910	2.094	-9.6	92	0.00
127	M	7,12-Dimethylbenz(a)anthrac	0.800	0.800	0.0	89	0.00
128	M	Benzo[b]fluoranthene	1.615	1.643	-1.7	85	0.00
129	M	Benzo(k)fluoranthene	1.564	1.461	6.6	78	0.00
130	M	Benzo(a)pyrene	1.374	1.375	-0.1	87	0.00
131	M	3-Methylcholanthrene	0.584	0.651	-11.5	95	0.00
132	M	Indeno[1,2,3,cd]pyrene	1.073	1.105	-3.0	83	0.00
133	M	Dibenz(a,h)anthracene	0.898	0.887	1.2	79	0.00
134	M	Benzo(g,h,i)perylene	0.839	0.974	-16.1	89	0.00

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

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Indiana Harbor Contract: ML-10C

Lab Code: USEPA-R5 Case No.: 0305007 SAS No.: GCMS SDG No.:

Lab File ID (Standard): 1C063034.D Date Analyzed: 7/1/03

Instrument ID: Time Analyzed: 12:52

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	4276387	8.80	9436247	11.86	6173054	16.36
UPPER LIMIT	8552774	9.30	18872494	12.36	12346108	16.86
LOWER LIMIT	2138194	8.30	4718124	11.36	3086527	15.86
EPA SAMPLE NO.						
01 0305007-37	3796194	8.80	8397077	11.86	5617347	16.37

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8
IS3 = Acenaphthene-d10
IS4 = Phenanthrene-d10
IS5 = Chrysene-d12
IS6 = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.
* Values outside of contract required QC limits

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Indiana Harbor Contract: ML-10C

Lab Code: USEPA-R5 Case No.: 0305007 SAS No.: GCMS SDG No.:

Lab File ID (Standard): 1C063034.D Date Analyzed: 07/01/03

Instrument ID: Time Analyzed: 12:52

	IS4 AREA #	RT #	IS5 AREA #	RT #	IS6 AREA #	RT #
12 HOUR STD	10124491	20.22	10918509	26.23	6704529	28.97
UPPER LIMIT	20248982	19.72	21837018	25.73	13409058	28.47
LOWER LIMIT	5062246	20.72	5459255	26.73	3352265	29.47
EPA SAMPLE NO.						
01 0305007-37	9183417	20.24	10322908	26.23	7098310	28.99

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8
IS3 = Acenaphthene-d10
IS4 = Phenanthrene-d10
IS5 = Chrysene-d12
IS6 = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.
* Values outside of contract required QC limits

Date: 6/24/2003

Environmental Protection Agency Region 5

Central Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

ABNs/APEs/VOAs IN SOIL EXTRACTION SHEET

Date Extracted: 5/27/03

Date Concentrated: 5/28/03 Analyst(s): BP / GD

Method: SOXHLET( ) SONIC( ) DIL( ) ASE200(X) SOXTEC( )

Method: TurboVAP 500(X) TurboVAP LV & N2 Blowdown(X) Other:_____

Extraction Solvent: _CH2Cl2:Acetone (1:1) Volume (mL): _60 mL _____

Surrogate 1: 3032104 Amount: 100uL

Batch Number: B305027

Analyses Included On This Benchsheet

SVOA - PAHs

Sample Number	Source ID	LCS/MS Spike ID	Spike Amount (uL)	Weight of Sample (g)	FV of Extract with GPC Factor(mL)	ASE Cell No	ASE Vial No	With GPC Factor (mL)				Final Volume (mL)*	Comments
								Dil 1	Dil 2	Dil 3	Dil 4		
0305007-38				10.8	20	20	20					20	1C061214.D
0305007-39				10.6	20	21	21					20	1C061215.D
0305007-40				11.1	20	22	22					20	1C061223.D
0305007-01				4.01	20	5	5					20	1C060219.D
0305007-02				5.25	20	6	6					20	220.D
0305007-03				4.67	20	7	7					20	221.D
0305007-04				15.5	20	8	8					20	222.D
0305007-05				14.6	20	9	9					20	223.D
0305007-06				7.81	20	10	10					20	224.D
0305007-07				13.6	20	11	11					20	225.D
0305007-08				4.07	20	12	12					20	1C061107.D
0305007-09				13.7	20	13	13					20	1108.D
0305007-10				4.22	20	14	14					20	1109.D
0305007-11				5.78	20	15	15					20	1110.D

Batch Comments: WO #: 0305007 - Indiana Harbor; Extracted on 5/27/03 by Babu P - witnessed by RR; ASE sol lots: CH2Cl2 - B&J # CH405; Acetone B&J Lot # CH456; ABN surr @ 1000 ppm/LCS-MS 3032105 @ 100 ppm - spike 1 mL GPC 5/29/03 & 6/3/03

Comments:

Environmental Protection Agency Region 5
Central Regional Laboratory
536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Date: 6/24/2003

ABNs/APEs/VOAs IN SOIL EXTRACTION SHEET

Date Extracted: _____

Date Concentrated: _____ Analyst(s): _____ See Page 1 of 2

Method: SOXHLET( ) SONIC( ) DIL( ) ASE200( ) SOXTEC( )

Method: TurboVAP 500( ) TurboVAP LV & N2 Blowdown( ) Other: _____

Extraction Solvent: _CH2Cl2:Acetone (1:1) Volume (mL): _60 mL _____

Surrogate 1: 3032104 Amount: 100uL

Batch Number: B305027

Analyses Included On This Benchsheet

SVOA - PAHs

Sample Number	Source ID	LCS/MS Spike ID	Spike Amount (uL)	Weight of Sample (g)	FV of Extract with GPC Factor(mL)	ASE Cell No	ASE Vial No	With GPC Factor (mL)				Final Volume (mL)*	Comments
								Dil 1	Dil 2	Dil 3	Dil 4		
0305007-12				13.1	20	16	16					20	1C061111.D
0305007-13				4.56	20	17	17					20	1112.D
0305007-14				4.27	20	18	18					20	1113.D
0305007-15				9.51	20	19	19					20	1114.D
B305027-BLK1				30	2	1	1					2	1C060207.D
B305027-BS1		3032105	1000	30	2	2	2					2	08.D
B305027-BSD1		3032105	1000	30	2	3	3					2	09.D
B305027-MS1	0305007-40	3032105	1000	10.4	20	23	23					20	1C061224.D
B305027-MSD1	0305007-40	3032105	1000	10.1	20	24	24					20	1C063019.D

* After all dilutions.

Spiking Solution(s) Added By: BP Witnessed By: GD

Babu Pabuchuri: 7/17/03

Batch Comments: WO #: 0305007 - Indiana Harbor; Extracted on 5/27/03 by Babu P - witnessed by RR; ASE sol lots: CH2Cl2 - B&J # CH405; Acetone B&J Lot # CH456; ABN surr @ 1000 ppm/LCS-MS 3032105 @ 100 ppm - spike 1 mL

Comments:

Environmental Protection Agency Region 5

Central Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Date: 6/24/2003

ABNs/APEs/VOAs IN SOIL EXTRACTION SHEET

Date Extracted: 5/28/03

Date Concentrated: 5/29/03 Analyst(s): BP/GD

Method: SOXHLET( ) SONIC( ) DIL( ) ASE200(X) SOXTEC( )

Method: TurboVAP 500(✓) TurboVAP LV & N2 Blowdown(✓) Other:_____

Extraction Solvent: _CH2Cl2:Acetone (1:1) Volume (mL): _60 mL _____

Surrogate 1: 3032104 Amount: 100uL

Batch Number: B305030

Analyses Included On This Benchsheet

SVOA - PAHs

Sample Number	Source ID	LCS/MS Spike ID	Spike Amount (uL)	Weight of Sample (g)	FV of Extract with GPC Factor(mL)	ASE Cell No	ASE Vial No	With GPC Factor (mL)				Final Volume (mL)*	Comments
								Dil 1	Dil 2	Dil 3	Dil 4		
0305007-26				4	20	17	17					20	1C061206-D
0305007-27				12.1	20	18	18					20	1207-D
0305007-28				4.15	20	19	19					20	1208-D
0305007-29				4.4	20	20	20					20	1209-D
0305007-30				5.08	20	21	21					20	1210-D
0305007-31				4.28	20	22	22					20	1211-D
0305007-32				4.46	20	23	23					20	1212-D
0305007-33				13.7	20	24	24					20	1213-D
0305007-16				4.02	20	5	5					20	1C061115-D
0305007-17				4.22	20	6	6					20	1C061118-D
0305007-18				12	20	7	7		40			20	1119-D 8/26-D
0305007-19				10	20	8	8					20	1120-D 8 ~~27-D~~
0305007-20				9.77	20	9	9		80			20	1121-D 8 27-D
0305007-21				11.9	20	10	10					20	1122-D

Batch Comments: WO # 0305007 (Indiana Harbor); extracted on 5/28/03 by BP; witness: Bob O- AirDiv; ASE sol lots: CH2Cl2: B&J # CH405; Acetone: # CH456; ABN surrogate @ 1000 ppm - spike 100 µL; ABN LCS/MS @ 100 µL - spike 1 mL GPC 6/3/03 & 6/10/03

Comments: 5/29/03,

Environmental Protection Agency Region 5
Central Regional Laboratory
536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Date: 6/24/2003

ABNs/APEs/VOAs IN SOIL EXTRACTION SHEET

Date Extracted: _____ See page 1 of 2

Date Concentrated: _____ Analyst(s): _____

Method: SOXHLET( ) SONIC( ) DIL( ) ASE200( ) SOXTEC( )

Method: TurboVAP 500( ) TurboVAP LV & N2 Blowdown( ) Other: _____

Extraction Solvent: _CH2Cl2:Acetone (1:1) Volume (mL): _60 mL _____

Surrogate 1: 3032104 Amount: 100uL

Batch Number: B305030

Analyses Included On This Benchsheet

SVOA - PAHs

Sample Number	Source ID	LCS/MS Spike ID	Spike Amount (uL)	Weight of Sample (g)	FV of Extract with GPC Factor(mL)	ASE Cell No	ASE Vial No	With GPC Factor (mL) Dil 1	Dil 2	Dil 3	Dil 4	Final Volume (mL)*	Comments
0305007-22				4.26	20	31	31					20	1C061123.D
0305007-23				5.08	20	32	32					20	1124.D
0305007-24				9.07	20	33	33	40				20	1125.D & 28.D
0305007-25				11.4	20	14	14					20	1C061203.D
B305030-BLK1				30	2	1	1					2	1C061103.D
B305030-BS1		3032105	1000	30	2	2	2					2	1104.D
B305030-BSD1		3032105	1000	30	2	3	3					2	1105.D
B305030-MS1	0305007-25	3032105	1000	11.7	20	15	15					20	1C061204.D
B305030-MSD1	0305007-25	3032105	1000	11.7	20	16	16					20	1205.D

* After all dilutions.

Spiking Solution(s) Added By: BP Witnessed By: GD

Bob Patrichuk 7/17/03

Batch Comments: WO # 0305007 (Indiana Harbor); extracted on 5/28/03 by BP; witness: Bob O- AirDiv; ASE sol lots: CH2Cl2: B&J # CH405; Acetone: # CH456; ABN surrogate @ 1000 ppm - spike 100 µL; ABN LCS/MS @ 100 µL - spike 1 mL

Comments: ~~GPC 6/10/03 & 6/11/03~~ BP 7/17/03

Environmental Protection Agency Region 5

Central Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Date: 6/24/2003

ABNs/APEs/VOAs IN SOIL EXTRACTION SHEET

Date Extracted: 6/4/03

Date Concentrated: 6/5/03 Analyst(s): BP/GD

Method: SOXHLET( ) SONIC( ) DIL( ) ASE200(X) SOXTEC( )

Method: TurboVAP 500(X) TurboVAP LV & N2 Blowdown(X) Other:

Extraction Solvent: _CH2Cl2:Acetone (1:1) Volume (mL): _60 mL

Surrogate 1: 3032104 Amount: 100uL

Batch Number: B306001

Analyses Included On This Benchsheet

SVOA - PAHs

Sample Number	Source ID	LCS/MS Spike ID	Spike Amount (uL)	Weight of Sample (g)	FV of Extract with GPC Factor(mL)	ASE Cell No	ASE Vial No	With GPC Factor (mL)				Final Volume (mL)*	Comments
								Dil 1	Dil 2	Dil 3	Dil 4		
0305007-34				4.09	10	5	5					10	1C061218.D
0305007-35				17.6	10	6	6					10	1219.D
0305007-36				4.28	10	7	7					10	1222.D
B306001-BLK1				30	2	1	1					2	1C063020.D
B306001-BS1		3032105	1000	30	2	4	4					2	3023.D
B306001-BSD1		3032105	1000	30	2	3	3					2	3022.D
B306001-MS1	0305007-35	3032105	1000	16.9	10	9	9					10	1C061220.D
B306001-MSD1	0305007-35	3032105	1000	17	10	10	10					10	1221.D

BP 7/16/03

* After all dilutions.

Spiking Solution(s) Added By: BP Witnessed By: GD

Barbara Pasvenkoski: 7/17/03

Batch Comments: WO #: 0305007 Indiana Harbor; extracted on 6/04/03 by BP & witnessed by RR; ASE (1:1) sol lots - CH2Cl2 - B&J # CH405 & acetone #: CH456; ABN surrogate @ 1000 ppm - spike 100 µL; LCS/MS - spike 100 µL pest & 500 µL of Cerriliants ABN @ 200 ppm;

Comments: GPC 6/10/03 & 6/11/03

Environmental Protection Agency Region 5

Central Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Date: 7/16/03

ABNs/APEs/VOAs IN SOIL EXTRACTION SHEET

Date Extracted: 6/12/03

Date Concentrated: 6/13/03 Analyst(s): BP / GD

Method: SOXHLET( ) SONIC( ) DIL( ) ASE200(X) SOXTEC( )

Method: TurboVAP 500(X) TurboVAP LV & N2 Blowdown(X) Other:_____

Extraction Solvent: _CH2Cl2:Acetone (1:1) Volume (mL): _60 mL _____

Surrogate 1: 3032104 Amount: 100uL

Batch Number: B306014

Analyses Included On This Benchsheet

SVOA - PAHs

Sample Number	Source ID	LCS/MS Spike ID	Spike Amount (uL)	Weight of Sample (g)	FV of Extract with GPC Factor(mL)	ASE Cell No	ASE Vial No	With GPC Factor (mL)				Final Volume (mL)*	Comments
								Dil 1	Dil 2	Dil 3	Dil 4		
0305007-37				10.1	10	6	6					10	1C063036.D
B306014-BLK1				30	2	1	1					2	3022A.D
B306014-BS1		3032105	1000	30	2	2	2					2	3025.D
B306014-BSD1		3032105	1000	30	2	3	3					2	3026.D

* After all dilutions.

Spiking Solution(s) Added By: BP Witnessed By: GD

Batch Comments: WO # 0305007 (Indiana Harbor); DOC: 5/22/03; extracted on 6/12/03 by BP/Dr. GDang; witnessed by Dr. DG; ASE CH2Cl2(Lot# CH405):acetone (Lot #: CH456) (1:1) - B&J; OUTSIDE extrn holding time. GPC 6/26/03

Comments:

ASE 200 #1

5/06/03 BABU P 0304017

COLUMBUS BRIDGE (IND. HARBOR)

1	MB#1
2	LCS#1
3	LCSD#1
4	LCST#1
5	17-01
6	17-02
7	17.03
8	17.03MS
9	17.03MD
10	17.01D
11	17.02D end. OK.

5/27/03 BABU P. 0305007 Day1

IND. HARBOR (PAHs)

1	MB2
2	LCS2
3	LCS2D
4	LCS2T
5	007-1
6	-2
7	-3
8	-4
9	-5
10	-6
11	-7
12	-8
13	-9
14	-10

5/27/03 cont'd

150 psi
Started at 2000 psi

3 05 007

15	007-11
16	-12
17	-13
18	-14
19	-15
20	-38
21	-39
22	-40
23	-40MS
24	-40MSD

5/28/03 0305007 Day2

1	007-MB3	17	007-26
2	LCS3	18	27
3	LCS3D	19	28
4	LCS3T	20	29
5	007-16	21	30
6	17	22	31
7	18	23	32
8	19	24	33
9	20		
10	21		
11	22		
12	23		
13	24		
14	25		
15	25MS		
16	25MSD		

(ASE 200 #1)

0 psi
tab of
0 psi

6/4/03 WO# 0305007 Ind Harbor
Harbor Babu P

1 MB4 Started @ 11:20am
2 LCS4
3 LCSD4
4 LCST4
5 007-34
6 007-35
7 007-36 COMPLETED THE RUN
8 007-37
9 007-35 MS
10 007-35 MSD

NOTE: TEST THE SYST. PRIOR TO USE!

6/12/03 WO# 0305007 IND. Harbor
Babu P / Dr Deng

Repeated 007-35 & 007-37
Lost #007-37 extract (Dr. Deng) & CR
007-35 data for extn efficiency (BABU)

1 MB5
2 LCS5
3 LCSD5
4 LCST5
5 007-35 (10.10g) X NOT USED
6 007-37 (10.10g)
7 007-35MS (10.04g)
8 007-37MSD (10.23g)

These samples were extracted outside extn. holding time - BABU P

PROBLEM:
SOLV. DOES NOT REACH COLLECTION VIAL OR RINSE VIAL.

6/23
0306008 USS Cell B

5/29/03 BP/RR 0304017 & 0305007 (COLUMBUS BRIDGE & Indiana Harbor)

1	GPC MS	DUMP TIME: 22 MIN
2	GPC SPK	Collect Time: 24 "
3	017-01 "D"	WASH : 10
4	017-02 "D"	Flow Rate : 5 ml/min
5	017-03	Syst. Pressure: 8 Psig
6	017-03 MS	Chart Speed: 1 cm/min
7	-03 MSD	AUFS: 0.2
8	007-01	INPUT: 5 mV
9	-02	Higher Pressure Limit —
10	-03	6/3/03 Reform a Ringe Loop Purge
11	-04	Ultrasonic Sensor pre-Load Time: :05
12	-05	V Sensor Debounce Time 30:05
13	-06	IS Cal Mode desired (NO=0)
14	-07	GPC Prog 1
15	SOLVENT	V Sensor Max Load Time: 0:20.0
16	MB1	Dump Time: 31:60
17	LCS1	collect 18:60
18	LCS1D	wash 10.00
19	LCS1T	
20	MB2	
21	LCS2	
22	LCS2D	
23	LCS2T	

iE&

6/3/03 BP/RR ~~0305007~~ 0305007 (Ind. Hallock)

6/10/03 BP/RR/GD 0305007 6/11/2003

1	GPC MB2	GPC MB3	GPC MB4	1	
2	GPC SPR2	GPC SPK3	GPC SPK4	2	
3	MB3	007-020	007-34	3	
4	LCS3	-021	007-35	4	
5	LCSD3	-022	007-36	5	
6	LCST3	-023	7-37	6	Reextracted
7	007-08	-024	7-35MS	7	
8	09	-025	7-35MSD	8	
9	10	-025MS	MB4	9	
10	11	-025MSD	LCS4	10	
11	12	-026	LCSD4	11	
12	13	-027	LCST4	12	
13	14	-028	Dump: 22 min		
14	15	-029	collect: 22.5 min		
15	38	-030	wash: 10 min		
16	39	-031	6/26/03		
17	40	-032	7-37, MB, LCS/D		
18	40MS	-033			
19	40MSD	DONE			
20	16	CONDITIONS:			
21	17				
22	18				
23	19				
	DONE				

1C060203.S

IC 0 1C508261.M 1C050802.D to -06.D

NO outliers

CC 1C060202.D (1C602261.M) cc CAR 6/2 16:15:39

No outliers.

Samples: ~~B305~~ (DOE 5/27/03)

Forms 4, 5, 6, 7 & 8: OK

B305027-BLK1; BS1 & BSD1

CC 1C060218.D (1C602262.M 6/24 11:02:38

Forms 4, 5, 6, 7 & 8: OK

Samples 0305007-01 to 07

CC 1C061102.D (1C611261.M 6/24 13:09:16

Forms 5, 6, 8: OK

Samples: 0305007-08 to -16 & B305030BLK, LCS/D (5/28 DOE)

F7 Benzo(g, h, i) Perylene UJ/J

CC 1C061117.D (1C611262.M 6/25 13:39:39

Forms 5, 6, 7 & 8 → Flag IS5 in 007-20d (undiluted) as UJ. Use dil sample results for the affected detects (NONE)

OK OK OK

SAMPLES: 007-17 to -24, & 18d 20d 24d

CC 1C061202.D (1C612261.M 7/15 11:47:50

samples: 007-25, 25MS/D, 26 to 39 → 26 to 33 38-39

F 5, 6, 8 → OK

F 7 → Last 3 samples = Ind., dichr & benzo(g,h,i) pry

CC 1C061217.D (1C612262.M 7/15 11:58:02

Samples: 007-34, 35, 35MS, 35MSD, 36, 40, 40MS

F 5, 6, 8 → OK.

F7: last two: Dichrom & benzo(g,h,i) per.

Arch 061203a 8:35AM

cc | 1C063002.D 1C630261.M

IC All PAHs ok. NO Samples were analyzed

DFTPP ok

---

cc 1C063018.D 1C630262.M 7 Samples

Forms 5, 6, 7, 8 ok

ok ok ok

7/1 15:37:41
47

Samples: 007-40 MD (B305027-MSD1), B306001-MB LCS D & LCS,
B306019-MB, LCS & LCSD.

1C063034.D 1C701 0261.M 7/2 10:16:42

Forms 5 6 7 8 ok

ok ok ok

Sample: 007-37

007-04 Surr tee % Rec ≈ Low
05 "

	Ads	Bid	Temp
Low			7-04 7-05
High	7-08		7-39

No problems w Surr Rec. in B305027.

B305027 - MS/MSD dil'td out
Data qual on LCS/D
No problems w LCS/D
for B305027 batch.

B305030 Batch

LCS/D OK ✓

L			
H			7-20 7-24

7-25 All High
F Lug UJ/K

MS/MSD High

B306001 Batch

LCS/D OK

2 Surr are LOW

007-25 MS Low for most
MSD high for most → All Surr OK →

-35 Sample → Surr OK
ONLY Phenanthrene was detected. (K)
Rest UJ

Quantitation Report (QT Reviewed)

Data File : D:\BPARUCHU\DATA\1C060203\1C060207.D Vial: 7
Acq On : 2 Jun 2003 7:18 pm Operator: BP
Sample : B305027-BLK1 Inst : GCMS1
Misc : WO # 0305007 30g/2mL PAHs 5/27/03 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 2 19:53 2003 Quant Results File: 1C602261.RES

Quant Method : D:\BPARUCHU\METHODS\1C602261.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002
Last Update : Mon Jun 02 16:15:39 2003
Response via : Continuing Cal File: D:\BPARUCHU\DATA\1C060203\1C060202.D
DataAcq Meth : 1C602261

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.80	150	3358493	50.00	ng	0.00
25) Naphthalene-d8	11.85	136	7843519	50.00	ng	0.00
44) Acenaphthene-d10	16.34	164	5385501	50.00	ng	-0.01
71) Phenanthrene-d10	20.19	188	8169635	50.00	ng	0.00
105) Chrysene-d12	26.20	240	8309554	50.00	ng	-0.01
125) Perylene-d12	28.94	264	5842324	50.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	6.11	112	1371574	30.53	ng	0.02
Spiked Amount 50.000	Range 25 - 90		Recovery = 61.06%			
10) Phenol-d5	8.07	99	2420844	41.28	ng	0.00
Spiked Amount 50.000	Range 38 - 103		Recovery = 82.56%			
26) Nitrobenzene-d5	10.11	82	2559729	42.62	ng	0.00
Spiked Amount 50.000	Range 28 - 95		Recovery = 85.24%			
49) 2-Fluorobiphenyl	14.65	172	4870421	40.14	ng	0.00
Spiked Amount 50.000	Range 46 - 95		Recovery = 80.28%			
75) 2,4,6-Tribromophenol	18.38	330	418646	28.60	ng	-0.02
Spiked Amount 50.000	Range 47 - 146		Recovery = 57.20%			
108) Terphenyl-d14	24.08	244	6609382	43.68	ng	0.00
Spiked Amount 50.000	Range 50 - 144		Recovery = 87.36%			

Target Compounds						Qvalue
99) Di-n-butylphthalate	21.82	149	816215	4.07	ng	100
107) p,p'-DDE	24.08	246	119625	2.53	ng	# 31

(#) = qualifier out of range (m) = manual integration
1C060207.D 1C602261.M Wed Jul 16 12:23:05 2003 TEST

EPA Temp. TXT
Silks

Quantitation Report (QT Reviewed)

Data File : D:\BPARUCHU\DATA\1C060203\1C060208.D Vial: 8
Acq On : 2 Jun 2003 8:05 pm Operator: BP
Sample : B305027-BS1 Inst : GCMS1
Misc : WO # 0305007 30g/2mL PAHs 5/27/03 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 12 11:50 2003 Quant Results File: 1C602261.RES

Quant Method : D:\BPARUCHU\METHODS\1C602261.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002
Last Update : Mon Jun 02 16:15:39 2003
Response via : Continuing Cal File: D:\BPARUCHU\DATA\1C060203\1C060202.D
DataAcq Meth : 1C602261

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.81	150	3564865	50.00	ng	0.00
25) Naphthalene-d8	11.87	136	8190205	50.00	ng	0.00
44) Acenaphthene-d10	16.36	164	5013601	50.00	ng	0.00
71) Phenanthrene-d10	20.22	188	8188883	50.00	ng	0.02
105) Chrysene-d12	26.23	240	7178135	50.00	ng	0.02
125) Perylene-d12	28.96	264	5701560	50.00	ng	0.02

System Monitoring Compounds						
5) 2-Fluorophenol	6.12	112	1548264	32.46	ng	0.02
Spiked Amount 50.000	Range 25 - 90		Recovery = 64.92%			
10) Phenol-d5	8.09	99	2516159	40.42	ng	0.02
Spiked Amount 50.000	Range 38 - 103		Recovery = 80.84%			
26) Nitrobenzene-d5	10.14	82	2375887	37.88	ng	0.02
Spiked Amount 50.000	Range 28 - 95		Recovery = 75.76%			
49) 2-Fluorobiphenyl	14.66	172	5070792	44.89	ng	0.00
Spiked Amount 50.000	Range 46 - 95		Recovery = 89.78%			
75) 2,4,6-Tribromophenol	18.42	330	666697	45.44	ng	0.02
Spiked Amount 50.000	Range 47 - 146		Recovery = 90.88%			
108) Terphenyl-d14	24.10	244	5970221	45.67	ng	0.02
Spiked Amount 50.000	Range 50 - 144		Recovery = 91.34%			

Target Compounds							Qvalue
2) 2-Picoline	4.99	93	993293	52.00	ng		98
3) N-Nitrosomethylethylamine	5.26	88	992124	37.94	ng		97
4) Methyl methanesulfonate	5.85	80	834962	37.28	ng		98
6) N-Nitrosodiethylamine	6.59	102	1046293	39.22	ng		99
7) Ethyl methanesulfonate	7.25	79	1638079	40.61	ng		100
8) Aniline	8.11	93	2724033	139.48	ng	#	33
9) Pentachloroethane	8.15	167	594873	28.35	ng		92
11) Phenol	8.13	94	2865330	40.27	ng	#	62
12) Bis(2-chloroethyl)ether	8.29	93	2064716	38.60	ng		98
13) 2-Chlorophenol	8.35	128	2126897	36.10	ng		100
14) 1,3-Dichlorobenzene	8.66	146	1975264	32.21	ng		100
15) 1,4-Dichlorobenzene	8.84	146	2019842	31.42	ng		77
16) 1,2-Dichlorobenzene	9.17	146	1979322	34.05	ng		100
17) Benzyl alcohol	9.20	108	1257751	40.68	ng		98
18) bis(2-Chloroisopropyl)ethe	9.52	121	785149	39.10	ng		98
19) 2-Methylphenol	9.49	108	1556704	36.50	ng		97
20) Acetophenone	9.79	105	3011713	40.84	ng		99
21) o-Toluidine	9.88	106	2875481	74.48	ng	#	35
22) Hexachloroethane	9.95	201	710012	32.65	ng		100
23) N-Nitroso-di-n-propylamine	9.87	70	1714904	42.98	ng		95
24) 3-&/or 4-Methylphenol	9.88	107	6359668	89.70	ng		93
27) Nitrobenzene	10.19	123	1183813	36.21	ng		99
28) N-Nitrosopiperidine	10.58	114	1150726	39.70	ng		99
29) Isophorone	10.80	82	4620729	40.61	ng		100

30)	2-Nitrophenol	10.94	139	1332099	38.23	ng		98
31)	2,4-Dimethylphenol	11.15	107	2205137	37.18	ng		99
32)	o,o,o-Triethylphosphorothi	11.33	198	1296451	39.36	ng		91
33)	Bis(2-chloroethoxy)methane	11.38	93	2499429	37.36	ng		95
34)	2,4-Dichlorophenol	11.57	162	1885242	38.13	ng		100
35)	1,2,4-Trichlorobenzene	11.72	180	1961975	34.85	ng		99
36)	Naphthalene	11.92	128	6103734	36.58	ng		99
37)	Hexachloropropene	12.13	213	1223126	35.61	ng		99
38)	4-Choroaniline	12.11	127	1982106	30.50	ng	#	84
39)	Hexachlorobutadiene	12.25	225	1060497	34.60	ng		99
40)	N-Nitrosodi-n-butylamine	13.02	84	1839121	43.54	ng		99
41)	4-Chloro-3-methylphenol	13.40	107	2240758	45.18	ng		99
42)	Safrole	13.52	162	1913944	40.36	ng		99
43)	2-Methylnaphthalene	13.68	142	4455726	38.61	ng		99
45)	Hexachlorocyclopentadiene	14.09	237	958376	38.95	ng		99
46)	1,2,4,5-Tetrachlorobenzene	14.11	216	1919379	39.89	ng		100
47)	2,4,6-Trichlorophenol	14.44	196	1462599	45.09	ng		99
48)	2,4,5-Trichlorophenol	14.53	196	1632770	47.22	ng		99
50)	Isosafrole	14.84	162	1912502	43.61	ng		97
51)	2-Chloronaphthalene	14.91	162	4367904	43.50	ng		98
52)	2-Nitroaniline	15.25	138	1817178	45.24	ng		97
53)	1,4-Naphthoquinone	15.41	158	1281259	42.54	ng		97
54)	Dimethylphthalate	15.81	163	5730089	45.37	ng		98
55)	2,6-Dinitrotoluene	15.92	165	1425539	45.53	ng		99
56)	1,3-Dinitrobenzene	15.85	168	1093893	45.90	ng		94
57)	Acenaphthylene	15.98	152	7096209	40.39	ng		99
58)	3-Nitroaniline	16.33	138	1446906	52.15	ng		97
59)	Acenaphthene	16.44	153	4475169	40.82	ng		100
60)	2,4-Dinitrophenol	16.60	184	694301	55.46	ng		98
61)	Pentachlorobenzene	16.78	250	1854900	40.58	ng		99
62)	Dibenzofuran	16.89	168	6261998	39.01	ng		95
63)	2,4-Dinitrotoluene	16.95	165	1920264	44.90	ng	#	83
64)	4-Nitrophenol	16.90	109	649262	49.35	ng		78
65)	Diethylphthalate	17.63	149	5956505	46.22	ng		100
66)	Fluorene	17.79	166	5361721	41.37	ng		100
67)	4-Chlorophenylphenyl ether	17.83	204	2539717	41.03	ng		96
68)	Thionazin	17.84	97	1383187	49.45	ng		98
69)	5-Nitro-o-toluidine	17.91	152	1714685	47.92	ng		94
70)	4-Nitroaniline	17.97	138	1447729	53.11	ng		87
72)	2-Methyl-4,6-dinitrophenol	18.02	198	1180709	52.63	ng		99
73)	Diphenylamine	18.18	169	4856743	42.12	ng		100
74)	Azobenzene	18.25	77	5848464	42.76	ng		99
76)	Sulfotep	18.67	322	941710	45.39	ng		98
77)	Phorate	18.97	260	469571	44.70	ng		95
78)	Diallate	19.15	86	2072906	44.63	ng	#	74
79)	4-Bromophenyl phenyl ether	19.11	248	1310974	40.60	ng		95
80)	Alpha-BHC	19.12	181	1061236	43.10	ng	#	1
81)	Phenacetin	19.16	179	1811047	46.65	ng		92
82)	1,3,5-Trinitrobenzene	19.00	213	753187	49.17	ng		100
83)	Hexachlorobenzene	19.20	284	1457982	40.56	ng		99
84)	Dimethoate	19.47	87	2480438	44.97	ng		99
85)	Beta-BHC	19.74	181	943464	45.93	ng		92
86)	Pentachloronitrobenzene	19.79	295	254043	41.04	ng		99
87)	4-Aminobiphenyl	19.81	169	3115910	35.95	ng		97
88)	Pentachlorophenol	19.76	266	860748	42.30	ng		98
89)	Delta-BHC	19.88	181	961784	45.82	ng		99
90)	Pronamide	20.05	173	2666219	45.78	ng		100
91)	Phenanthrene	20.29	178	7251566	40.73	ng		99
92)	Dinoseb	20.29	211	1404921	48.25	ng		97
93)	Disulfoton	20.32	88	3892265	45.70	ng		98
94)	Anthracene	20.42	178	8421699	44.83	ng		99
95)	Gamma-BHC	20.51	181	930864	46.67	ng		99
96)	Carbazole	20.88	167	7532946	46.32	ng	#	95

97)	Methyl Parathion	21.28	263	1175860	48.49	ng		98
98)	Heptachlor	21.50	272	671898	46.65	ng		95
99)	Di-n-butylphthalate	21.85	149	9560513	47.58	ng		99
100)	Aldrin	22.25	263	589081	42.98	ng		92
101)	Ethyl Parathion	22.25	291	836571	43.70	ng		84
102)	Isodrin	22.83	193	973983	45.51	ng		99
103)	Heptachlor Epoxide	22.98	353	420085	45.05	ng		90
104)	Fluoranthene	23.19	202	8543788	43.36	ng		98
106)	Pyrene	23.70	202	8463013	43.46	ng		99
107)	p,p'-DDE	23.98	246	1874168	45.91	ng		97
109)	Dieldrin	24.15	79	1594655	49.01	ng		99
110)	p-Dimethylaminoazobenzene	24.41	225	2091508	46.44	ng		98
111)	Chlorobenzilate	24.51	251	2531103	44.26	ng		95
112)	Endrin	24.52	263	302963	46.82	ng		92
113)	p,p'-DDD	24.69	235	3060615	42.60	ng		98
114)	Endrin Aldehyde	24.40	67	30036	49.16	ng	#	78
115)	Famphur	25.02	218	816931	47.53	ng		98
116)	Butylbenzylphthalate	25.16	149	4447823	47.36	ng		99
117)	Endosulfan Sulfate	25.30	235	2277734	48.94	ng		93
118)	2-Acetylaminofluorene	25.64	181	3878879	47.68	ng		99
119)	Endrin Ketone	26.10	227	4387779	50.22	ng		98
120)	Methoxychlor	26.10	227	4387779	50.22	ng		99
121)	Benz(a)anthracene	26.20	228	7779946	46.25	ng		99
122)	3,3'-Dichlorobenzidine	26.16	252	1572294	42.28	ng		99
123)	Bis(2-ethylhexyl)phthalate	26.28	149	5880442	44.51	ng		98
124)	Chrysene	26.28	228	6314220	42.09	ng		97
126)	Di-n-octylphthalate	27.45	149	9523364	41.52	ng		98
127)	7,12-Dimethylbenz(a)anthra	28.16	256	3136015	39.29	ng		98
128)	Benzo[b]fluoranthene	28.22	252	8115922	44.70	ng		96
129)	Benzo(k)fluoranthene	28.27	252	6208604m	40.47	ng		
130)	Benzo(a)pyrene	28.84	252	7322683	44.86	ng		99
131)	3-Methylcholanthrene	29.55	268	3683411	42.33	ng	#	100
132)	Indeno[1,2,3,cd]pyrene	31.41	276	8535720	43.30	ng	#	92
133)	Dibenz(a,h)anthracene	31.46	278	7044321	43.70	ng		98
134)	Benzo(g,h,i)perylene	32.13	276	5576826	34.06	ng		100

(#) = qualifier out of range (m) = manual integration
1C060208.D 1C602261.M Wed Jul 16 12:23:44 2003 TEST

Quantitation Report (QT Reviewed)

Data File : D:\BPARUCHU\DATA\1C060203\1C060209.D Vial: 9
Acq On : 2 Jun 2003 8:51 pm Operator: BP
Sample : B305027-BSD1 Inst : GCMS1
Misc : WO # 0305007 30g/2mL PAHs 5/27/03 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 12 12:07 2003 Quant Results File: 1C602261.RES

Quant Method : D:\BPARUCHU\METHODS\1C602261.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002
Last Update : Mon Jun 02 16:15:39 2003
Response via : Continuing Cal File: D:\BPARUCHU\DATA\1C060203\1C060202.D
DataAcq Meth : 1C602261

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.81	150	3554918	50.00	ng	0.00
25) Naphthalene-d8	11.87	136	8055103	50.00	ng	0.00
44) Acenaphthene-d10	16.36	164	4957110	50.00	ng	0.00
71) Phenanthrene-d10	20.22	188	8161522	50.00	ng	0.02
105) Chrysene-d12	26.23	240	7198281	50.00	ng	0.02
125) Perylene-d12	28.96	264	5697600	50.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	6.13	112	2040804m	42.91	ng	0.03
Spiked Amount 50.000	Range 25 - 90		Recovery = 85.82%			
10) Phenol-d5	8.11	99	2932350	47.24	ng	0.03
Spiked Amount 50.000	Range 38 - 103		Recovery = 94.48%			
26) Nitrobenzene-d5	10.14	82	2794133	45.30	ng	0.02
Spiked Amount 50.000	Range 28 - 95		Recovery = 90.60%			
49) 2-Fluorobiphenyl	14.67	172	5494226	49.19	ng	0.02
Spiked Amount 50.000	Range 46 - 95		Recovery = 98.38%#			
75) 2,4,6-Tribromophenol	18.42	330	749636	51.27	ng	0.02
Spiked Amount 50.000	Range 47 - 146		Recovery = 102.54%			
108) Terphenyl-d14	24.10	244	6602372	50.37	ng	0.02
Spiked Amount 50.000	Range 50 - 144		Recovery = 100.74%			

Target Compounds							Qvalue
2) 2-Picoline	4.99	93	1124403	59.03	ng		98
3) N-Nitrosomethylethylamine	5.26	88	1049055	40.23	ng		97
4) Methyl methanesulfonate	5.86	80	879469	39.38	ng		96
6) N-Nitrosodiethylamine	6.60	102	1111548	41.78	ng		100
7) Ethyl methanesulfonate	7.27	79	1730251	43.02	ng		100
8) Aniline	8.11	93	2811737	144.37	ng	#	34
9) Pentachloroethane	8.16	167	607413	29.03	ng		97
11) Phenol	8.14	94	3045178	42.92	ng	#	62
12) Bis(2-chloroethyl)ether	8.30	93	2185129	40.97	ng		97
13) 2-Chlorophenol	8.36	128	2262558	38.51	ng		100
14) 1,3-Dichlorobenzene	8.66	146	2137141	34.95	ng		100
15) 1,4-Dichlorobenzene	8.84	146	2161422	33.72	ng		71
16) 1,2-Dichlorobenzene	9.17	146	2124532	36.65	ng		99
17) Benzyl alcohol	9.21	108	1346012	43.66	ng		98
18) bis(2-Chloroisopropyl)ethe	9.52	121	827481	41.33	ng		92
19) 2-Methylphenol	9.50	108	1593078	37.46	ng		97
20) Acetophenone	9.80	105	3209367	43.65	ng		98
21) o-Toluidine	9.88	106	2337802	60.72	ng		63
22) Hexachloroethane	9.95	201	757221	34.92	ng		100
23) N-Nitroso-di-n-propylamine	9.87	70	1797319	45.17	ng		95
24) 3-&/or 4-Methylphenol	9.90	107	6663711	94.25	ng		93
27) Nitrobenzene	10.19	123	1253519	38.99	ng		98
28) N-Nitrosopiperidine	10.59	114	1217433	42.71	ng		99
29) Isophorone	10.81	82	4862742	43.45	ng		100

30)	2-Nitrophenol	10.95	139	1405523	41.01	ng		97
31)	2,4-Dimethylphenol	11.16	107	2261175	38.76	ng		99
32)	o,o,o-Triethylphosphorothi	11.33	198	1312416	40.51	ng		93
33)	Bis(2-chloroethoxy)methane	11.38	93	2702124	41.07	ng		97
34)	2,4-Dichlorophenol	11.58	162	1998349	41.09	ng		100
35)	1,2,4-Trichlorobenzene	11.73	180	2082462	37.61	ng		99
36)	Naphthalene	11.92	128	6384208	38.90	ng		99
37)	Hexachloropropene	12.13	213	1248577	36.96	ng		99
38)	4-Choroaniline	12.11	127	1906001	29.82	ng	#	84
39)	Hexachlorobutadiene	12.26	225	1118641	37.10	ng		99
40)	N-Nitrosodi-n-butylamine	13.02	84	1836623	44.21	ng		100
41)	4-Chloro-3-methylphenol	13.41	107	2343273	48.04	ng		99
42)	Safrole	13.52	162	1968883	42.22	ng		98
43)	2-Methylnaphthalene	13.69	142	4739013	41.75	ng		99
45)	Hexachlorocyclopentadiene	14.09	237	977849	40.20	ng		99
46)	1,2,4,5-Tetrachlorobenzene	14.11	216	2033495	42.74	ng		100
47)	2,4,6-Trichlorophenol	14.44	196	1549446	48.31	ng		99
48)	2,4,5-Trichlorophenol	14.53	196	1716379	50.20	ng		99
50)	Isosafrole	14.84	162	2073301	47.81	ng		98
51)	2-Chloronaphthalene	14.92	162	4514354	45.47	ng		98
52)	2-Nitroaniline	15.25	138	1904616	47.95	ng		96
53)	1,4-Naphthoquinone	15.41	158	1322295	44.41	ng		97
54)	Dimethylphthalate	15.81	163	5844733	46.81	ng		98
55)	2,6-Dinitrotoluene	15.93	165	1487894	48.06	ng		94
56)	1,3-Dinitrobenzene	15.85	168	1117064	47.41	ng		92
57)	Acenaphthylene	15.98	152	7433741	42.80	ng		99
58)	3-Nitroaniline	16.33	138	1482192	54.03	ng		96
59)	Acenaphthene	16.45	153	4727118	43.61	ng		100
60)	2,4-Dinitrophenol	16.60	184	736268	59.49	ng		97
61)	Pentachlorobenzene	16.78	250	1928679	42.68	ng		99
62)	Dibenzofuran	16.90	168	6581146	41.47	ng		96
63)	2,4-Dinitrotoluene	16.96	165	1969545	46.58	ng	#	81
64)	4-Nitrophenol	16.90	109	421580	32.41	ng	#	29
65)	Diethylphthalate	17.63	149	5976916	46.90	ng		99
66)	Fluorene	17.79	166	5587379	43.60	ng		100
67)	4-Chlorophenylphenyl ether	17.83	204	2647567	43.26	ng		96
68)	Thionazin	17.84	97	1337051	48.35	ng		99
69)	5-Nitro-o-toluidine	17.91	152	1743356	49.28	ng		93
70)	4-Nitroaniline	17.97	138	1459656	54.16	ng		85
72)	2-Methyl-4,6-dinitrophenol	18.02	198	1212053	54.21	ng		99
73)	Diphenylamine	18.18	169	4986261	43.39	ng		100
74)	Azobenzene	18.25	77	6084098	44.63	ng		99
76)	Sulfotep	18.67	322	883812	42.74	ng		97
77)	Phorate	18.97	260	455604	43.51	ng		91
78)	Diallate	19.15	86	2106105	45.49	ng	#	73
79)	4-Bromophenyl phenyl ether	19.11	248	1355219	42.11	ng		95
80)	Alpha-BHC	19.11	181	1053539	42.93	ng	#	1
81)	Phenacetin	19.17	179	1897190	49.03	ng		95
82)	1,3,5-Trinitrobenzene	19.01	213	770620	50.47	ng		99
83)	Hexachlorobenzene	19.20	284	1496195	41.77	ng		99
84)	Dimethoate	19.48	87	2306744	41.96	ng		98
85)	Beta-BHC	19.75	181	933384	45.59	ng		91
86)	Pentachloronitrobenzene	19.79	295	260193	42.17	ng		99
87)	4-Aminobiphenyl	19.81	169	2968025	34.36	ng	#	97
88)	Pentachlorophenol	19.77	266	870056	42.90	ng		99
89)	Delta-BHC	19.88	181	937322	44.80	ng		99
90)	Pronamide	20.05	173	2680576	46.18	ng		99
91)	Phenanthrene	20.29	178	7400744	41.71	ng		99
92)	Dinoseb	20.29	211	1439335	49.60	ng		96
93)	Disulfoton	20.33	88	3847222	45.32	ng		98
94)	Anthracene	20.42	178	8093405	43.22	ng		99
95)	Gamma-BHC	20.51	181	894849	45.01	ng		99
96)	Carbazole	20.87	167	7884554	48.65	ng	#	94

97)	Methyl Parathion	21.28	263	1134571	46.94	ng		97
98)	Heptachlor	21.50	272	657131	45.78	ng		95
99)	Di-n-butylphthalate	21.85	149	9691643	48.39	ng		99
100)	Aldrin	22.25	263	570708	41.78	ng		91
101)	Ethyl Parathion	22.25	291	813667	42.64	ng		83
102)	Isodrin	22.83	193	959631	44.99	ng		100
103)	Heptachlor Epoxide	22.98	353	407912	43.89	ng		89
104)	Fluoranthene	23.20	202	8716058	44.38	ng		98
106)	Pyrene	23.71	202	8712837	44.61	ng		99
107)	p,p'-DDE	23.98	246	1839222	44.93	ng		97
109)	Dieldrin	24.15	79	1572211	48.19	ng		98
110)	p-Dimethylaminoazobenzene	24.40	225	2104392	46.59	ng		98
111)	Chlorobenzilate	24.51	251	2577629	44.95	ng		94
112)	Endrin	24.52	263	297658	45.87	ng		91
113)	p,p'-DDD	24.69	235	2983423	41.41	ng		97
114)	Endrin Aldehyde	24.40	67	26984	44.04	ng	#	78
115)	Famphur	25.02	218	803060	46.59	ng		99
116)	Butylbenzylphthalate	25.16	149	4569969	48.52	ng		98
117)	Endosulfan Sulfate	25.30	235	2303812	49.37	ng		92
118)	2-Acetylaminofluorene	25.64	181	3991216	48.92	ng		99
119)	Endrin Ketone	26.10	227	4523584	51.63	ng		96
120)	Methoxychlor	26.10	227	4523584	51.63	ng		99
121)	Benz(a)anthracene	26.20	228	7945628	47.10	ng		99
122)	3,3'-Dichlorobenzidine	26.17	252	1582432	42.43	ng		99
123)	Bis(2-ethylhexyl)phthalate	26.28	149	6048761	45.65	ng		98
124)	Chrysene	26.28	228	6621547	44.02	ng		98
126)	Di-n-octylphthalate	27.45	149	9789480	42.70	ng		98
127)	7,12-Dimethylbenz(a)anthra	28.16	256	3279490	41.12	ng		98
128)	Benzo[b]fluoranthene	28.22	252	8186560	45.12	ng		98
129)	Benzo(k)fluoranthene	28.27	252	6978931m	45.52	ng		
130)	Benzo(a)pyrene	28.84	252	7430583	45.56	ng		99
131)	3-Methylcholanthrene	29.55	268	3729704	42.89	ng	#	100
132)	Indeno[1,2,3,cd]pyrene	31.42	276	8615791	43.73	ng	#	92
133)	Dibenz(a,h)anthracene	31.47	278	7090959	44.02	ng		97
134)	Benzo(g,h,i)perylene	32.13	276	5762798	35.22	ng		100

(#) = qualifier out of range (m) = manual integration
1C060209.D 1C602261.M Wed Jul 16 12:24:11 2003 TEST

Quantitation Report (QT Reviewed)

Data File : D:\BPARUCHU\DATA\1C060203\1C060219.D Vial: 19
Acq On : 3 Jun 2003 4:39 am Operator: BP
Sample : 0305007-01 @ Ind. Harbor Inst : GCMS1
Misc : WO # 0305007 4.01g/20 mL/74.5%S PAHs 5/ Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 24 11:37 2003 Quant Results File: 1C602262.RES

Quant Method : D:\BPARUCHU\METHODS\1C602262.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002
Last Update : Tue Jun 24 11:03:05 2003
Response via : Continuing Cal File: D:\BPARUCHU\DATA\1C060203\1C060218.D
DataAcq Meth : 1C602262

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.80	150	4502662	50.00	ng	-0.01
25) Naphthalene-d8	11.85	136	9722673	50.00	ng	-0.01
44) Acenaphthene-d10	16.36	164	6512957	50.00	ng	0.00
71) Phenanthrene-d10	20.22	188	9812027	50.00	ng	0.00
105) Chrysene-d12	26.27	240	9554256	50.00	ng	0.04
125) Perylene-d12	29.04	264	6327137	50.00	ng	0.08

System Monitoring Compounds						
5) 2-Fluorophenol	6.11	112	244493m	3.83	ng	0.00
Spiked Amount 50.000	Range 25 - 90		Recovery = 7.66%#			
10) Phenol-d5	8.09	99	262578	3.23	ng	0.00
Spiked Amount 50.000	Range 38 - 103		Recovery = 6.46%#			
26) Nitrobenzene-d5	10.10	82	304253	4.10	ng	-0.03
Spiked Amount 50.000	Range 28 - 95		Recovery = 8.20%#			
49) 2-Fluorobiphenyl	14.64	172	652551	4.17	ng	-0.02
Spiked Amount 50.000	Range 46 - 95		Recovery = 8.34%#			
75) 2,4,6-Tribromophenol	18.40	330	68189	3.60	ng	0.00
Spiked Amount 50.000	Range 47 - 146		Recovery = 7.20%#			
108) Terphenyl-d14	24.11	244	647909	3.44	ng	0.03
Spiked Amount 50.000	Range 50 - 144		Recovery = 6.88%#			

Target Compounds							Qvalue
104) Fluoranthene	23.21	202	1296200	5.20	ng		99
106) Pyrene	23.72	202	5124301	20.24	ng		97
121) Benz(a)anthracene	26.25	228	1403814m	6.07	ng		
124) Chrysene	26.31	228	2645965	13.48	ng	#	92
130) Benzo(a)pyrene	28.79	252	1515035m	8.09	ng		

(#) = qualifier out of range (m) = manual integration
1C060219.D 1C602262.M Wed Jul 16 12:25:44 2003 TEST

Quantitation Report (QT Reviewed)

Data File : D:\BPARUCHU\DATA\1C060203\1C060220.D Vial: 20
Acq On : 3 Jun 2003 5:25 am Operator: BP
Sample : 0305007-02 @ Ind. Harbor Inst : GCMS1
Misc : WO # 0305007 5.25g/20 mL /79.8%S PAHs 5/ Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 24 11:46 2003 Quant Results File: 1C602262.RES

Quant Method : D:\BPARUCHU\METHODS\1C602262.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002
Last Update : Tue Jun 24 11:03:05 2003
Response via : Continuing Cal File: D:\BPARUCHU\DATA\1C060203\1C060218.D
DataAcq Meth : 1C602262

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.80	150	4129831	50.00	ng	-0.01
25) Naphthalene-d8	11.86	136	9106223	50.00	ng	0.00
44) Acenaphthene-d10	16.37	164	5905859	50.00	ng	0.00
71) Phenanthrene-d10	20.23	188	9195246	50.00	ng	0.00
105) Chrysene-d12	26.28	240	10246235	50.00	ng	0.05
125) Perylene-d12	29.04	264	6135159	50.00	ng	0.08

System Monitoring Compounds

5) 2-Fluorophenol	6.11	112	236586m	4.04	ng	0.00
Spiked Amount 50.000	Range 25 - 90		Recovery = 8.08%#			
10) Phenol-d5	8.10	99	266670	3.58	ng	0.00
Spiked Amount 50.000	Range 38 - 103		Recovery = 7.16%#			
26) Nitrobenzene-d5	10.10	82	320624	4.61	ng	-0.02
Spiked Amount 50.000	Range 28 - 95		Recovery = 9.22%#			
49) 2-Fluorobiphenyl	14.65	172	711270	5.01	ng	0.00
Spiked Amount 50.000	Range 46 - 95		Recovery = 10.02%#			
75) 2,4,6-Tribromophenol	18.41	330	80668	4.55	ng	0.00
Spiked Amount 50.000	Range 47 - 146		Recovery = 9.10%#			
108) Terphenyl-d14	24.13	244	723154	3.58	ng	0.04
Spiked Amount 50.000	Range 50 - 144		Recovery = 7.16%#			

Target Compounds						Qvalue
104) Fluoranthene	23.23	202	3324137	14.22	ng	99
106) Pyrene	23.75	202	10039862	36.97	ng	97
121) Benz(a)anthracene	26.26	228	3668279	14.79	ng	95
124) Chrysene	26.33	228	7514041m	35.70	ng	
128) Benzo[b]fluoranthene	28.25	252	1397315m	7.17	ng	
130) Benzo(a)pyrene	28.79	252	3030693m	16.68	ng	
134) Benzo(g,h,i)perylene	32.16	276	809725m	5.23	ng	

(#) = qualifier out of range (m) = manual integration
1C060220.D 1C602262.M Wed Jul 16 12:26:13 2003 TEST

Quantitation Report (QT Reviewed)

Data File : D:\BPARUCHU\DATA\1C060203\1C060221.D Vial: 21
Acq On : 3 Jun 2003 6:12 am Operator: BP
Sample : 0305007-03 @ Ind. Harbor Inst : GCMS1
Misc : WO # 0305007 4.67g/20 mL/84.1%S PAHs 5/2 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 24 11:50 2003 Quant Results File: 1C602262.RES

Quant Method : D:\BPARUCHU\METHODS\1C602262.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002
Last Update : Tue Jun 24 11:03:05 2003
Response via : Continuing Cal File: D:\BPARUCHU\DATA\1C060203\1C060218.D
DataAcq Meth : 1C602262

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.80	150	4064281	50.00	ng	0.00
25) Naphthalene-d8	11.85	136	9048597	50.00	ng	0.00
44) Acenaphthene-d10	16.36	164	6001057	50.00	ng	0.00
71) Phenanthrene-d10	20.22	188	9218789	50.00	ng	0.00
105) Chrysene-d12	26.27	240	10002392	50.00	ng	0.05
125) Perylene-d12	29.05	264	6450286	50.00	ng	0.09

System Monitoring Compounds						
5) 2-Fluorophenol	6.11	112	215303m	3.74	ng	0.00
Spiked Amount 50.000	Range 25 - 90		Recovery = 7.48%#			
10) Phenol-d5	8.10	99	238070	3.25	ng	0.00
Spiked Amount 50.000	Range 38 - 103		Recovery = 6.50%#			
26) Nitrobenzene-d5	10.10	82	282537	4.09	ng	-0.02
Spiked Amount 50.000	Range 28 - 95		Recovery = 8.18%#			
49) 2-Fluorobiphenyl	14.65	172	610059	4.23	ng	0.00
Spiked Amount 50.000	Range 46 - 95		Recovery = 8.46%#			
75) 2,4,6-Tribromophenol	18.40	330	74821	4.21	ng	0.00
Spiked Amount 50.000	Range 47 - 146		Recovery = 8.42%#			
108) Terphenyl-d14	24.12	244	653231	3.32	ng	0.03
Spiked Amount 50.000	Range 50 - 144		Recovery = 6.64%#			

Target Compounds							Qvalue
104) Fluoranthene	23.22	202	2431049	10.38	ng		99
106) Pyrene	23.74	202	7398754	27.91	ng		98
121) Benz(a)anthracene	26.25	228	2266311	9.36	ng		95
124) Chrysene	26.32	228	4498315	21.89	ng	#	94
128) Benzo[b]fluoranthene	28.25	252	1189130m	5.81	ng		
130) Benzo(a)pyrene	28.80	252	1831127	9.59	ng		94

(#) = qualifier out of range (m) = manual integration
1C060221.D 1C602262.M Wed Jul 16 12:26:53 2003 TEST

Quantitation Report (QT Reviewed)

Data File : D:\BPARUCHU\DATA\1C060203\1C060222.D Vial: 22
Acq On : 3 Jun 2003 6:58 am Operator: BP
Sample : 0305007-04 @ Ind. Harbor Inst : GCMS1
Misc : WO # 0305007 15.5g/20 mL/78.3%S PAHs 5/2 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 15 15:46 2003 Quant Results File: 1C602262.RES

Quant Method : D:\BPARUCHU\METHODS\1C602262.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002
Last Update : Tue Jun 24 11:03:05 2003
Response via : Continuing Cal File: D:\BPARUCHU\DATA\1C060203\1C060218.D
DataAcq Meth : 1C602262

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.80	150	4302732	50.00	ng	0.00
25) Naphthalene-d8	11.86	136	9586128	50.00	ng	0.00
44) Acenaphthene-d10	16.36	164	6382751	50.00	ng	0.00
71) Phenanthrene-d10	20.24	188	9690476	50.00	ng	0.02
105) Chrysene-d12	26.31	240	11642004	50.00	ng	0.08
125) Perylene-d12	29.09	264	7357214	50.00	ng	0.14

System Monitoring Compounds						
5) 2-Fluorophenol	6.11	112	221986m	3.64	ng	0.00
Spiked Amount 50.000	Range 25 - 90		Recovery = 7.28%#			
10) Phenol-d5	8.10	99	243986	3.15	ng	0.00
Spiked Amount 50.000	Range 38 - 103		Recovery = 6.30%#			
26) Nitrobenzene-d5	10.10	82	291209	3.98	ng	-0.02
Spiked Amount 50.000	Range 28 - 95		Recovery = 7.96%#			
49) 2-Fluorobiphenyl	14.65	172	646609	4.22	ng	0.00
Spiked Amount 50.000	Range 46 - 95		Recovery = 8.44%#			
75) 2,4,6-Tribromophenol	18.41	330	80618	4.31	ng	0.00
Spiked Amount 50.000	Range 47 - 146		Recovery = 8.62%#			
108) Terphenyl-d14	24.14	244	713131	3.11	ng	0.06
Spiked Amount 50.000	Range 50 - 144		Recovery = 6.22%#			

Target Compounds							Qvalue
104) Fluoranthene	23.24	202	4515095	18.33	ng		100
106) Pyrene	23.77	202	14186253-	45.98	ng		96
121) Benz(a)anthracene	26.29	228	5755436	20.42	ng	#	79
124) Chrysene	26.37	228	12466371	52.13	ng	#	88
128) Benzo[b]fluoranthene	28.30	252	3230168m	13.83	ng		
130) Benzo(a)pyrene	28.85	252	5862272m	26.91	ng		
134) Benzo(g,h,i)perylene	32.29	276	1440645	7.76	ng		93

(#) = qualifier out of range (m) = manual integration
1C060222.D 1C602262.M Wed Jul 16 12:27:16 2003 TEST

Quantitation Report (QT Reviewed)

Data File : D:\BPARUCHU\DATA\1C060203\1C060223.D Vial: 23
Acq On : 3 Jun 2003 7:45 am Operator: BP
Sample : 0305007-05 @ Ind. Harbor Inst : GCMS1
Misc : WO # 0305007 14.6g/20 mL/78.6%S PAHs 5/2 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 24 11:59 2003 Quant Results File: 1C602262.RES

Quant Method : D:\BPARUCHU\METHODS\1C602262.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002
Last Update : Tue Jun 24 11:03:05 2003
Response via : Continuing Cal File: D:\BPARUCHU\DATA\1C060203\1C060218.D
DataAcq Meth : 1C602262

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.81	150	5214378	50.00	ng	0.00
25) Naphthalene-d8	11.86	136	11369984	50.00	ng	0.00
44) Acenaphthene-d10	16.38	164	7457525	50.00	ng	0.02
71) Phenanthrene-d10	20.25	188	10906819	50.00	ng	0.03
105) Chrysene-d12	26.29	240	12028596	50.00	ng	0.06
125) Perylene-d12	29.05	264	6984360	50.00	ng	0.09

System Monitoring Compounds

5) 2-Fluorophenol	6.12	112	288079m	3.90	ng	0.02
Spiked Amount 50.000	Range 25 - 90		Recovery = 7.80%#			
10) Phenol-d5	8.10	99	297872	3.17	ng	0.01
Spiked Amount 50.000	Range 38 - 103		Recovery = 6.34%#			
26) Nitrobenzene-d5	10.10	82	341421	3.93	ng	-0.02
Spiked Amount 50.000	Range 28 - 95		Recovery = 7.86%#			
49) 2-Fluorobiphenyl	14.66	172	751728	4.20	ng	0.00
Spiked Amount 50.000	Range 46 - 95		Recovery = 8.40%#			
75) 2,4,6-Tribromophenol	18.43	330	87547	4.16	ng	0.02
Spiked Amount 50.000	Range 47 - 146		Recovery = 8.32%#			
108) Terphenyl-d14	24.13	244	727563	3.07	ng	0.05
Spiked Amount 50.000	Range 50 - 144		Recovery = 6.14%#			

Target Compounds							Qvalue
104) Fluoranthene	23.24	202	3274750	11.81	ng		99
106) Pyrene	23.76	202	10219006	32.06	ng		97
121) Benz(a)anthracene	26.27	228	3488052	11.98	ng	#	79
124) Chrysene	26.34	228	7593368	30.73	ng	#	91
128) Benzo[b]fluoranthene	28.26	252	1608259m	7.25	ng		
130) Benzo(a)pyrene	28.80	252	2865580m	13.85	ng		
134) Benzo(g,h,i)perylene	32.19	276	882574	5.01	ng		99

(#) = qualifier out of range (m) = manual integration
1C060223.D 1C602262.M Wed Jul 16 12:27:40 2003 TEST

Quantitation Report (QT Reviewed)

Data File : D:\BPARUCHU\DATA\1C060203\1C060224.D Vial: 24
Acq On : 3 Jun 2003 8:32 am Operator: BP
Sample : 0305007-06 @ Ind. Harbor Inst : GCMS1
Misc : WO # 0305007 7.81g/20 mL/79.1%S PAHs 5/ Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 24 12:04 2003 Quant Results File: 1C602262.RES

Quant Method : D:\BPARUCHU\METHODS\1C602262.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002
Last Update : Tue Jun 24 11:03:05 2003
Response via : Continuing Cal File: D:\BPARUCHU\DATA\1C060203\1C060218.D
DataAcq Meth : 1C602262

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.80	150	4533022	50.00	ng	0.00
25) Naphthalene-d8	11.86	136	10020103	50.00	ng	0.00
44) Acenaphthene-d10	16.37	164	6400025	50.00	ng	0.01
71) Phenanthrene-d10	20.25	188	9783004	50.00	ng	0.03
105) Chrysene-d12	26.33	240	10623189	50.00	ng	0.10
125) Perylene-d12	29.13	264	7912132	50.00	ng	0.17

System Monitoring Compounds						
5) 2-Fluorophenol	6.10	112	180592m	2.81	ng	-0.01
Spiked Amount 50.000	Range 25 - 90		Recovery = 5.62%#			
10) Phenol-d5	8.09	99	251867	3.08	ng	0.00
Spiked Amount 50.000	Range 38 - 103		Recovery = 6.16%#			
26) Nitrobenzene-d5	10.10	82	301431	3.94	ng	-0.02
Spiked Amount 50.000	Range 28 - 95		Recovery = 7.88%#			
49) 2-Fluorobiphenyl	14.65	172	755178	4.91	ng	0.00
Spiked Amount 50.000	Range 46 - 95		Recovery = 9.82%#			
75) 2,4,6-Tribromophenol	18.42	330	87471	4.63	ng	0.02
Spiked Amount 50.000	Range 47 - 146		Recovery = 9.26%#			
108) Terphenyl-d14	24.16	244	824196	3.94	ng	0.07
Spiked Amount 50.000	Range 50 - 144		Recovery = 7.88%#			

Target Compounds							Qvalue
66) Fluorene	17.78	166	837921	5.02	ng		95
104) Fluoranthene	23.27	202	4860261	19.55	ng		99
106) Pyrene	23.80	202	14726163	52.31	ng		95
121) Benz(a)anthracene	26.31	228	5048002	19.63	ng	#	75
124) Chrysene	26.39	228	10993134	50.37	ng	#	88
128) Benzo[b]fluoranthene	28.33	252	3007911m	11.97	ng		
130) Benzo(a)pyrene	28.89	252	5264526m	22.47	ng		
134) Benzo(g,h,i)perylene	32.33	276	1191166	5.96	ng		95

(#) = qualifier out of range (m) = manual integration
1C060224.D 1C602262.M Wed Jul 16 12:28:03 2003 TEST

Quantitation Report (QT Reviewed)

Data File : D:\BPARUCHU\DATA\1C060203\1C060225.D Vial: 25
Acq On : 3 Jun 2003 9:19 am Operator: BP
Sample : 0305007-07 @ Ind. Harbor Inst : GCMS1
Misc : WO # 0305007 13.6g/20 mL/85.0%S PAHs 5/2 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 24 12:08 2003 Quant Results File: 1C602262.RES

Quant Method : D:\BPARUCHU\METHODS\1C602262.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002
Last Update : Tue Jun 24 11:03:05 2003
Response via : Continuing Cal File: D:\BPARUCHU\DATA\1C060203\1C060218.D
DataAcq Meth : 1C602262

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.81	150	4900981	50.00	ng	0.00
25) Naphthalene-d8	11.86	136	10348210	50.00	ng	0.00
44) Acenaphthene-d10	16.37	164	7170489	50.00	ng	0.00
71) Phenanthrene-d10	20.22	188	11926074	50.00	ng	0.00
105) Chrysene-d12	26.27	240	10686159	50.00	ng	0.05
125) Perylene-d12	29.05	264	7230391	50.00	ng	0.09

System Monitoring Compounds						
5) 2-Fluorophenol	6.09	112	229259m	3.30	ng	-0.01
Spiked Amount 50.000	Range 25 - 90		Recovery = 6.60%#			
10) Phenol-d5	8.10	99	257285	2.91	ng	0.00
Spiked Amount 50.000	Range 38 - 103		Recovery = 5.82%#			
26) Nitrobenzene-d5	10.10	82	314644	3.98	ng	-0.02
Spiked Amount 50.000	Range 28 - 95		Recovery = 7.96%#			
49) 2-Fluorobiphenyl	14.65	172	709907	4.12	ng	0.00
Spiked Amount 50.000	Range 46 - 95		Recovery = 8.24%#			
75) 2,4,6-Tribromophenol	18.40	330	99709	4.33	ng	0.00
Spiked Amount 50.000	Range 47 - 146		Recovery = 8.66%#			
108) Terphenyl-d14	24.12	244	891967	4.24	ng	0.03
Spiked Amount 50.000	Range 50 - 144		Recovery = 8.48%#			

Target Compounds							Qvalue
104) Fluoranthene	23.21	202	1788523	5.90	ng		99
106) Pyrene	23.73	202	7692846 ←	27.16	ng		98
121) Benz(a)anthracene	26.26	228	2413938	9.33	ng	#	68
124) Chrysene	26.32	228	5305210	24.17	ng	#	80
128) Benzo[b]fluoranthene	28.25	252	2316149m	10.09	ng		
130) Benzo(a)pyrene	28.80	252	4129605m	19.29	ng		
134) Benzo(g,h,i)perylene	32.23	276	1343502	7.36	ng		97

(#) = qualifier out of range (m) = manual integration
1C060225.D 1C602262.M Wed Jul 16 12:28:30 2003 TEST

Quantitation Report (QT Reviewed)

Data File : D:\BPARUCHU\DATA\1C061103\1C061103.D Vial: 3
Acq On : 11 Jun 2003 7:11 pm Operator: BP
Sample : B305030-BLK1 @ Indiana Harbor Inst : GCMS1
Misc : WO # 0305007 30 g/2 mL PAHs 5/28/03 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 24 15:01 2003 Quant Results File: 1C611261.RES

Quant Method : D:\BPARUCHU\METHODS\1C611261.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002
Last Update : Tue Jun 24 13:09:16 2003
Response via : Continuing Cal File: D:\BPARUCHU\DATA\1C061103\1C061102.D
DataAcq Meth : 1C611261

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.80	150	2951773	50.00	ng	0.00
25) Naphthalene-d8	11.85	136	6589785	50.00	ng	0.00
44) Acenaphthene-d10	16.34	164	3765890	50.00	ng	0.00
71) Phenanthrene-d10	20.19	188	5774263	50.00	ng	-0.02
105) Chrysene-d12	26.20	240	6535085	50.00	ng	-0.02
125) Perylene-d12	28.95	264	4403745	50.00	ng	-0.02

System Monitoring Compounds						
5) 2-Fluorophenol	6.13	112	1099454m	28.16	ng	0.03
Spiked Amount 50.000	Range 25 - 90		Recovery = 56.32%			
10) Phenol-d5	8.09	99	1693358	33.87	ng	0.00
Spiked Amount 50.000	Range 38 - 103		Recovery = 67.74%			
26) Nitrobenzene-d5	10.12	82	1838170	41.07	ng	0.00
Spiked Amount 50.000	Range 28 - 95		Recovery = 82.14%			
49) 2-Fluorobiphenyl	14.65	172	4022154	43.46	ng	0.00
Spiked Amount 50.000	Range 46 - 95		Recovery = 86.92%			
75) 2,4,6-Tribromophenol	18.39	330	259902	22.55	ng	0.00
Spiked Amount 50.000	Range 47 - 146		Recovery = 45.10%#			
108) Terphenyl-d14	24.09	244	5453399	46.62	ng	0.00
Spiked Amount 50.000	Range 50 - 144		Recovery = 93.24%			

Target Compounds						Qvalue
2) 2-Picoline	5.00	93	250978m	7.22	ng	
99) Di-n-butylphthalate	21.83	149	307012	2.04	ng	99

(#) = qualifier out of range (m) = manual integration
1C061103.D 1C611261.M Wed Jul 16 12:30:26 2003 TEST

Quantitation Report (QT Reviewed)

Data File : D:\BPARUCHU\DATA\1C061103\1C061104.D Vial: 4
Acq On : 11 Jun 2003 7:58 pm Operator: BP
Sample : B305030-BS1 @ Indiana Harbor Inst : GCMS1
Misc : WO # 0305007 30.0 g/2 mL PAHs 5/28/03 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 24 15:06 2003 Quant Results File: 1C611261.RES

Quant Method : D:\BPARUCHU\METHODS\1C611261.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002
Last Update : Tue Jun 24 13:09:16 2003
Response via : Continuing Cal File: D:\BPARUCHU\DATA\1C061103\1C061102.D
DataAcq Meth : 1C611261

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.81	150	3175021	50.00	ng	0.00
25) Naphthalene-d8	11.87	136	6928740	50.00	ng	0.00
44) Acenaphthene-d10	16.36	164	4194251	50.00	ng	0.00
71) Phenanthrene-d10	20.23	188	6116254	50.00	ng	0.01
105) Chrysene-d12	26.23	240	5938701	50.00	ng	0.00
125) Perylene-d12	28.97	264	4729685	50.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	6.17	112	1668355m	39.73	ng	0.07
Spiked Amount 50.000	Range 25 - 90		Recovery = 79.46%			
10) Phenol-d5	8.13	99	2168900	40.33	ng	0.04
Spiked Amount 50.000	Range 38 - 103		Recovery = 80.66%			
26) Nitrobenzene-d5	10.13	82	2071352	44.02	ng	0.00
Spiked Amount 50.000	Range 28 - 95		Recovery = 88.04%			
49) 2-Fluorobiphenyl	14.66	172	4419238	42.88	ng	0.00
Spiked Amount 50.000	Range 46 - 95		Recovery = 85.76%			
75) 2,4,6-Tribromophenol	18.42	330	585275	47.94	ng	0.02
Spiked Amount 50.000	Range 47 - 146		Recovery = 95.88%			
108) Terphenyl-d14	24.10	244	5134105	48.30	ng	0.02
Spiked Amount 50.000	Range 50 - 144		Recovery = 96.60%			

Target Compounds							Qvalue
2) 2-Picoline	5.00	93	1152686m	30.84	ng		
3) N-Nitrosomethylethylamine	5.27	88	858483m	34.17	ng		
4) Methyl methanesulfonate	5.86	80	623554	31.33	ng		98
6) N-Nitrosodiethylamine	6.60	102	868727	34.70	ng		99
7) Ethyl methanesulfonate	7.26	79	1374224	37.43	ng		100
8) Aniline	8.11	93	1846961	44.08	ng	#	31
9) Pentachloroethane	8.17	167	649819	33.15	ng		100
11) Phenol	8.16	94	2416601	37.93	ng	#	59
12) Bis(2-chloroethyl)ether	8.29	93	1851057	38.26	ng		96
13) 2-Chlorophenol	8.38	128	2038666	40.70	ng		99
14) 1,3-Dichlorobenzene	8.67	146	2118989	37.09	ng		100
15) 1,4-Dichlorobenzene	8.85	146	2100456	36.06	ng	#	66
16) 1,2-Dichlorobenzene	9.18	146	1973472	34.87	ng		100
17) Benzyl alcohol	9.21	108	1153212	42.10	ng		99
18) bis(2-Chloroisopropyl)ethe	9.51	121	700311	37.75	ng		97
19) 2-Methylphenol	9.53	108	1705217	45.40	ng		90
20) Acetophenone	9.80	105	2731074	39.94	ng		97
21) o-Toluidine	9.88	106	2007485	28.66	ng		70
22) Hexachloroethane	9.96	201	727947	34.21	ng		99
23) N-Nitroso-di-n-propylamine	9.87	70	1402669	39.00	ng		97
24) 3-&/or 4-Methylphenol	9.91	107	5252326	70.54	ng		95
27) Nitrobenzene	10.19	123	1031404	41.81	ng		97
28) N-Nitrosopiperidine	10.58	114	957251	39.91	ng		98
29) Isophorone	10.81	82	3818746	40.53	ng		99

30)	2-Nitrophenol	10.94	139	1176767	40.43	ng		99
31)	2,4-Dimethylphenol	11.15	107	1434756	28.67	ng		100
32)	o,o,o-Triethylphosphorothi	11.32	198	1207089	41.28	ng		95
33)	Bis(2-chloroethoxy)methane	11.38	93	2229930	40.20	ng		97
34)	2,4-Dichlorophenol	11.59	162	1774392	43.82	ng		100
35)	1,2,4-Trichlorobenzene	11.73	180	1903912	40.65	ng		100
36)	Naphthalene	11.92	128	5526738	38.96	ng		99
37)	Hexachloropropene	12.13	213	1095574	35.99	ng		99
38)	4-Choroaniline	12.11	127	1283630	27.79	ng		98
39)	Hexachlorobutadiene	12.25	225	1073300	39.80	ng		99
40)	N-Nitrosodi-n-butylamine	13.02	84	1457712	42.79	ng		100
41)	4-Chloro-3-methylphenol	13.41	107	1895307	44.81	ng		98
42)	Safrole	13.51	162	1691115	39.69	ng		98
43)	2-Methylnaphthalene	13.68	142	4047205	40.32	ng		99
45)	Hexachlorocyclopentadiene	14.09	237	643987	28.49	ng		100
46)	1,2,4,5-Tetrachlorobenzene	14.11	216	1908037	40.46	ng		99
47)	2,4,6-Trichlorophenol	14.44	196	1308972	43.82	ng		100
48)	2,4,5-Trichlorophenol	14.55	196	1440841	47.89	ng		100
50)	Isosafrole	14.84	162	1656333	41.35	ng		99
51)	2-Chloronaphthalene	14.92	162	3940841	41.99	ng		99
52)	2-Nitroaniline	15.25	138	1589139	47.61	ng		98
53)	1,4-Naphthoquinone	15.41	158	954951	36.06	ng		99
54)	Dimethylphthalate	15.81	163	5076531	45.93	ng	#	88
55)	2,6-Dinitrotoluene	15.93	165	1264731	46.87	ng		98
56)	1,3-Dinitrobenzene	15.85	168	938750	47.77	ng	#	83
57)	Acenaphthylene	15.99	152	6185583	40.86	ng		99
58)	3-Nitroaniline	16.33	138	1077071	53.38	ng		97
59)	Acenaphthene	16.45	153	3999739	42.44	ng		100
60)	2,4-Dinitrophenol	16.61	184	479314	53.23	ng		99
61)	Pentachlorobenzene	16.78	250	1766614	43.33	ng		99
62)	Dibenzofuran	16.90	168	5644483	42.63	ng	#	85
63)	2,4-Dinitrotoluene	16.95	165	1612811	46.76	ng		99
64)	4-Nitrophenol	16.93	109	464267	84.12	ng	#	36
65)	Diethylphthalate	17.63	149	4398891	40.43	ng		100
66)	Fluorene	17.78	166	4139501	39.70	ng		99
67)	4-Chlorophenylphenyl ether	17.84	204	2154376	40.96	ng		98
68)	Thionazin	17.84	97	1007507	45.30	ng		100
69)	5-Nitro-o-toluidine	17.91	152	1260586	46.73	ng	#	92
70)	4-Nitroaniline	17.95	138	1027496	50.91	ng		93
72)	2-Methyl-4,6-dinitrophenol	18.02	198	881614	50.96	ng		98
73)	Diphenylamine	18.18	169	3760342	46.16	ng		99
74)	Azobenzene	18.25	77	4228917	46.16	ng		100
76)	Sulfotep	18.67	322	787479	45.83	ng		96
77)	Phorate	18.97	260	383549	45.02	ng		90
78)	Diallate	19.16	86	1489420	46.63	ng		79
79)	4-Bromophenyl phenyl ether	19.11	248	1119792	43.62	ng		96
80)	Alpha-BHC	19.11	181	851070	45.26	ng		75
81)	Phenacetin	19.16	179	1352538	49.46	ng		93
82)	1,3,5-Trinitrobenzene	19.03	213	571975	51.97	ng		97
83)	Hexachlorobenzene	19.21	284	1239966	44.60	ng		100
84)	Dimethoate	19.47	87	1662984	46.97	ng		100
85)	Beta-BHC	19.75	181	773432	50.80	ng		93
86)	Pentachloronitrobenzene	19.79	295	230288	45.92	ng		99
87)	4-Aminobiphenyl	19.81	169	1783663	34.28	ng		95
88)	Pentachlorophenol	19.78	266	701140	44.92	ng		99
89)	Delta-BHC	19.88	181	739356	46.45	ng		98
90)	Pronamide	20.04	173	2033829	45.39	ng		100
91)	Phenanthrene	20.29	178	5761227	44.10	ng		99
92)	Dinoseb	20.30	211	1197410	48.15	ng		96
93)	Disulfoton	20.32	88	2659810	44.25	ng		98
94)	Anthracene	20.42	178	6103404	42.17	ng		99
95)	Gamma-BHC	20.52	181	733199	48.83	ng		99
96)	Carbazole	20.88	167	5800547	47.26	ng		98

97)	Methyl Parathion	21.28	263	982582	48.36	ng		98
98)	Heptachlor	21.50	272	583874	46.42	ng		99
99)	Di-n-butylphthalate	21.86	149	7273779	45.57	ng		99
100)	Aldrin	22.25	263	516414	45.03	ng		97
101)	Ethyl Parathion	22.26	291	752693	46.26	ng		94
102)	Isodrin	22.83	193	783809	45.04	ng		99
103)	Heptachlor Epoxide	22.99	353	370446	45.58	ng		95
104)	Fluoranthene	23.20	202	6822069	43.87	ng		99
106)	Pyrene	23.71	202	6929638	44.63	ng		99
107)	p,p'-DDE	23.98	246	1590923	47.09	ng		98
109)	Dieldrin	24.15	79	1167224	49.13	ng		99
110)	p-Dimethylaminoazobenzene	24.41	225	1650521	46.04	ng		98
111)	Chlorobenzilate	24.51	251	2191527	45.36	ng		96
112)	Endrin	24.53	263	275381	46.76	ng		98
113)	p,p'-DDD	24.70	235	2609247	44.13	ng		98
114)	Endrin Aldehyde	24.40	67	21649	50.67	ng	#	100
115)	Famphur	25.02	218	791083	60.95	ng		99
116)	Butylbenzylphthalate	25.15	149	3520451	47.07	ng		98
117)	Endosulfan Sulfate	25.30	235	2182365	47.29	ng		97
118)	2-Acetylaminofluorene	25.65	181	3077040	48.74	ng		98
119)	Endrin Ketone	26.10	227	4168352	47.51	ng		100
120)	Methoxychlor	26.10	227	4168352	47.51	ng		99
121)	Benz(a)anthracene	26.20	228	6678755	45.77	ng		100
122)	3,3'-Dichlorobenzidine	26.17	252	1262242	38.67	ng		100
123)	Bis(2-ethylhexyl)phthalate	26.28	149	4769617	45.21	ng		98
124)	Chrysene	26.28	228	5782103	45.13	ng		99
126)	Di-n-octylphthalate	27.45	149	7708804	44.56	ng		98
127)	7,12-Dimethylbenz(a)anthra	28.16	256	1836853	25.18	ng		99
128)	Benzo[b]fluoranthene	28.22	252	7189537	46.82	ng		96
129)	Benzo(k)fluoranthene	28.27	252	6161924m	45.29	ng		
130)	Benzo(a)pyrene	28.84	252	6341010	45.57	ng		100
131)	3-Methylcholanthrene	29.56	268	2938979	46.12	ng	#	83
132)	Indeno[1,2,3,cd]pyrene	31.42	276	6268106	48.74	ng	#	91
133)	Dibenz(a,h)anthracene	31.47	278	5056617	47.92	ng		100
134)	Benzo(g,h,i)perylene	32.13	276	4732140	47.31	ng	#	94

(#) = qualifier out of range (m) = manual integration
1C061104.D 1C611261.M Wed Jul 16 12:30:53 2003 TEST

Quantitation Report (QT Reviewed)

Data File : D:\BPARUCHU\DATA\1C061103\1C061105.D Vial: 5
Acq On : 11 Jun 2003 8:45 pm Operator: BP
Sample : B305030-BSD1 @ Indiana Harbor Inst : GCMS1
Misc : WO # 0305007 30.0 G/2 Ml PAHs 5/28/03 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 25 10:45 2003 Quant Results File: 1C611261.RES

Quant Method : D:\BPARUCHU\METHODS\1C611261.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002
Last Update : Tue Jun 24 13:09:16 2003
Response via : Continuing Cal File: D:\BPARUCHU\DATA\1C061103\1C061102.D
DataAcq Meth : 1C611261

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.81	150	3103765	50.00	ng	0.00
25) Naphthalene-d8	11.87	136	6603163	50.00	ng	0.01
44) Acenaphthene-d10	16.36	164	3756149	50.00	ng	0.01
71) Phenanthrene-d10	20.23	188	6206151	50.00	ng	0.02
105) Chrysene-d12	26.24	240	5836472	50.00	ng	0.02
125) Perylene-d12	28.97	264	4799281	50.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	6.13	112	1591024m	38.76	ng	0.04
Spiked Amount 50.000	Range 25 - 90		Recovery = 77.52%			
10) Phenol-d5	8.11	99	2332311	44.36	ng	0.03
Spiked Amount 50.000	Range 38 - 103		Recovery = 88.72%			
26) Nitrobenzene-d5	10.14	82	2311562	51.55	ng	0.01
Spiked Amount 50.000	Range 28 - 95		Recovery = 103.10%#			
49) 2-Fluorobiphenyl	14.67	172	4152260	44.99	ng	0.02
Spiked Amount 50.000	Range 46 - 95		Recovery = 89.98%			
75) 2,4,6-Tribromophenol	18.43	330	653071	52.72	ng	0.03
Spiked Amount 50.000	Range 47 - 146		Recovery = 105.44%			
108) Terphenyl-d14	24.10	244	5471420	52.37	ng	0.02
Spiked Amount 50.000	Range 50 - 144		Recovery = 104.74%			

Target Compounds							Qvalue
2) 2-Picoline	5.00	93	1064952	29.15	ng		92
3) N-Nitrosomethylethylamine	5.26	88	827503m	33.69	ng		
4) Methyl methanesulfonate	5.86	80	659293	33.88	ng		99
6) N-Nitrosodiethylamine	6.60	102	878242	35.89	ng		99
7) Ethyl methanesulfonate	7.26	79	1423024	39.65	ng		99
8) Aniline	8.11	93	2280217	55.67	ng	#	57
9) Pentachloroethane	8.16	167	548221	28.61	ng		99
11) Phenol	8.14	94	2543322	40.83	ng	#	65
12) Bis(2-chloroethyl)ether	8.30	93	1853539	39.19	ng		96
13) 2-Chlorophenol	8.36	128	1919509	39.20	ng		99
14) 1,3-Dichlorobenzene	8.66	146	1993314	35.69	ng		100
15) 1,4-Dichlorobenzene	8.85	146	2031177	35.67	ng	#	67
16) 1,2-Dichlorobenzene	9.18	146	1971277	35.63	ng		100
17) Benzyl alcohol	9.20	108	1233057	46.05	ng		99
18) bis(2-Chloroisopropyl)ethe	9.52	121	707533	39.02	ng		78
19) 2-Methylphenol	9.50	108	1303631	35.50	ng		92
20) Acetophenone	9.80	105	2764442	41.35	ng	#	71
21) o-Toluidine	9.88	106	2497286	36.47	ng		94
22) Hexachloroethane	9.96	201	703162	33.80	ng		100
23) N-Nitroso-di-n-propylamine	9.87	70	1413078	40.19	ng		96
24) 3-&/or 4-Methylphenol	9.89	107	5592301	76.83	ng		98
27) Nitrobenzene	10.19	123	1156975	49.21	ng		98
28) N-Nitrosopiperidine	10.59	114	1075079	47.04	ng		99
29) Isophorone	10.81	82	4307093	47.97	ng		98

30)	2-Nitrophenol	10.95	139	1340816	48.34	ng		99
31)	2,4-Dimethylphenol	11.16	107	1479114	31.02	ng		99
32)	o,o,o-Triethylphosphorothi	11.33	198	1121062	40.23	ng		94
33)	Bis(2-chloroethoxy)methane	11.38	93	2019964	38.21	ng		97
34)	2,4-Dichlorophenol	11.58	162	1603140	41.54	ng		99
35)	1,2,4-Trichlorobenzene	11.73	180	1914389	42.88	ng		99
36)	Naphthalene	11.92	128	5481836	40.55	ng		99
37)	Hexachloropropene	12.13	213	1185531	40.87	ng		99
38)	4-Choroaniline	12.11	127	1923693	43.70	ng		98
39)	Hexachlorobutadiene	12.25	225	1111846	43.26	ng		100
40)	N-Nitrosodi-n-butylamine	13.01	84	1534980	47.28	ng		99
41)	4-Chloro-3-methylphenol	13.42	107	1802577	44.72	ng		97
42)	Safrole	13.52	162	1546830	38.09	ng		96
43)	2-Methylnaphthalene	13.68	142	3673457	38.40	ng		99
45)	Hexachlorocyclopentadiene	14.09	237	698804	34.52	ng		100
46)	1,2,4,5-Tetrachlorobenzene	14.12	216	1707278	40.43	ng		99
47)	2,4,6-Trichlorophenol	14.44	196	1221005	45.64	ng		99
48)	2,4,5-Trichlorophenol	14.55	196	1349719	50.09	ng		98
50)	Isosafrole	14.85	162	1558181	43.44	ng		97
51)	2-Chloronaphthalene	14.92	162	3599110	42.82	ng		98
52)	2-Nitroaniline	15.25	138	1455839	48.70	ng		96
53)	1,4-Naphthoquinone	15.41	158	869061	36.64	ng		95
54)	Dimethylphthalate	15.82	163	4792213m	48.41	ng		
55)	2,6-Dinitrotoluene	15.93	165	1181165	48.88	ng		93
56)	1,3-Dinitrobenzene	15.86	168	886571	50.38	ng	#	83
57)	Acenaphthylene	15.98	152	5798845	42.77	ng		99
58)	3-Nitroaniline	16.34	138	1150095	63.65	ng		99
59)	Acenaphthene	16.45	153	3730154	44.20	ng		99
60)	2,4-Dinitrophenol	16.62	184	509334	63.16	ng		99
61)	Pentachlorobenzene	16.79	250	1659706	45.46	ng		100
62)	Dibenzofuran	16.90	168	5347148	45.10	ng	#	83
63)	2,4-Dinitrotoluene	16.96	165	1582185	51.22	ng		98
64)	4-Nitrophenol	16.94	109	493897	99.93	ng	#	26
65)	Diethylphthalate	17.63	149	4801688	49.27	ng		100
66)	Fluorene	17.79	166	4431279	47.45	ng		99
67)	4-Chlorophenylphenyl ether	17.84	204	2313140	49.11	ng		97
68)	Thionazin	17.85	97	1169245	58.71	ng		99
69)	5-Nitro-o-toluidine	17.92	152	1488135	61.60	ng		88
70)	4-Nitroaniline	17.97	138	1143915	63.29	ng		94
72)	2-Methyl-4,6-dinitrophenol	18.03	198	976712	55.63	ng		98
73)	Diphenylamine	18.18	169	3999287	48.38	ng		99
74)	Azobenzene	18.25	77	4628961	49.79	ng		100
76)	Sulfotep	18.68	322	869823	49.89	ng		95
77)	Phorate	18.98	260	435268	50.35	ng		91
78)	Diallate	19.16	86	1643595	50.71	ng		79
79)	4-Bromophenyl phenyl ether	19.11	248	1206051	46.30	ng		95
80)	Alpha-BHC	19.12	181	957797	50.20	ng	#	1
81)	Phenacetin	19.18	179	1611385	58.07	ng		94
82)	1,3,5-Trinitrobenzene	19.04	213	633986	56.77	ng		96
83)	Hexachlorobenzene	19.21	284	1319350	46.77	ng		99
84)	Dimethoate	19.48	87	1902677	52.96	ng		99
85)	Beta-BHC	19.76	181	854034	55.28	ng		93
86)	Pentachloronitrobenzene	19.80	295	242871	47.73	ng		99
87)	4-Aminobiphenyl	19.81	169	2156657	40.85	ng		97
88)	Pentachlorophenol	19.78	266	751401	47.44	ng		99
89)	Delta-BHC	19.89	181	831031	51.45	ng		98
90)	Pronamide	20.05	173	2205993	48.52	ng		100
91)	Phenanthrene	20.30	178	6177366	46.60	ng		99
92)	Dinoseb	20.31	211	1304463	51.70	ng		96
93)	Disulfoton	20.33	88	3008831	49.33	ng		99
94)	Anthracene	20.43	178	6585378	44.84	ng		99
95)	Gamma-BHC	20.53	181	797345	52.33	ng		97
96)	Carbazole	20.89	167	6175675	49.58	ng		98

97)	Methyl Parathion	21.28	263	1077741	52.27	ng		99
98)	Heptachlor	21.50	272	644912	50.53	ng		98
99)	Di-n-butylphthalate	21.86	149	7774668	48.01	ng		99
100)	Aldrin	22.25	263	570501	49.03	ng		96
101)	Ethyl Parathion	22.26	291	829534	50.24	ng		93
102)	Isodrin	22.83	193	849135	48.09	ng		99
103)	Heptachlor Epoxide	22.99	353	404649	49.07	ng		91
104)	Fluoranthene	23.20	202	7235224	45.85	ng		99
106)	Pyrene	23.71	202	7382389	48.38	ng		99
107)	p,p'-DDE	23.98	246	1750006	52.70	ng		97
109)	Dieldrin	24.15	79	1300794	55.71	ng		99
110)	p-Dimethylaminoazobenzene	24.41	225	1770996	50.26	ng		97
111)	Chlorobenzilate	24.52	251	2352614	49.55	ng		96
112)	Endrin	24.53	263	303269	52.39	ng		97
113)	p,p'-DDD	24.70	235	2872036	49.43	ng		98
114)	Endrin Aldehyde	24.41	67	20670	49.23	ng	#	100
115)	Famphur	25.02	218	895336	70.19	ng		99
116)	Butylbenzylphthalate	25.16	149	3756712	51.11	ng		98
117)	Endosulfan Sulfate	25.30	235	2399610	52.90	ng		96
118)	2-Acetylaminofluorene	25.65	181	3328858	53.65	ng		98
119)	Endrin Ketone	26.11	227	4571596	53.02	ng		100
120)	Methoxychlor	26.11	227	4571596	53.02	ng		98
121)	Benz(a)anthracene	26.21	228	7153604	49.88	ng		100
122)	3,3'-Dichlorobenzidine	26.17	252	1365594	42.57	ng		100
123)	Bis(2-ethylhexyl)phthalate	26.28	149	5152590	49.69	ng		97
124)	Chrysene	26.28	228	6104077	48.48	ng		99
126)	Di-n-octylphthalate	27.45	149	8211400	46.77	ng		98
127)	7,12-Dimethylbenz(a)anthra	28.17	256	2422099	32.72	ng		99
128)	Benzo[b]fluoranthene	28.22	252	7598663	48.76	ng		98
129)	Benzo(k)fluoranthene	28.28	252	7254790m	52.55	ng		
130)	Benzo(a)pyrene	28.85	252	6906082	48.91	ng		100
131)	3-Methylcholanthrene	29.56	268	3280996	50.74	ng	#	83
132)	Indeno[1,2,3,cd]pyrene	31.45	276	6996067	53.61	ng		99
133)	Dibenz(a,h)anthracene	31.48	278	5627829	52.56	ng		100
134)	Benzo(g,h,i)perylene	32.15	276	5292843	52.15	ng		99

(#) = qualifier out of range (m) = manual integration
1C061105.D 1C611261.M Wed Jul 16 12:31:08 2003 TEST

Quantitation Report (QT Reviewed)

Data File : D:\BPARUCHU\DATA\1C061103\1C061107.D Vial: 7
Acq On : 11 Jun 2003 10:19 pm Operator: BP
Sample : 0305007-08 @ Indiana Harbor Inst : GCMS1
Misc : WO # 0305007 4.07g/20 mL/79.7%S PAHs 5 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 25 10:54 2003 Quant Results File: 1C611261.RES

Quant Method : D:\BPARUCHU\METHODS\1C611261.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002
Last Update : Tue Jun 24 13:09:16 2003
Response via : Continuing Cal File: D:\BPARUCHU\DATA\1C061103\1C061102.D
DataAcq Meth : 1C611261

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.80	150	2822951	50.00	ng	0.00
25) Naphthalene-d8	11.85	136	5993138	50.00	ng	-0.01
44) Acenaphthene-d10	16.36	164	3885433	50.00	ng	0.00
71) Phenanthrene-d10	20.22	188	6361294	50.00	ng	0.01
105) Chrysene-d12	26.27	240	6434710	50.00	ng	0.05
125) Perylene-d12	29.02	264	3843179	50.00	ng	0.06

System Monitoring Compounds						
5) 2-Fluorophenol	6.11	112	139560m	3.74	ng	0.02
Spiked Amount 50.000	Range 25 - 90		Recovery = 7.48%#			
10) Phenol-d5	8.12	99	142596	2.98	ng	0.03
Spiked Amount 50.000	Range 38 - 103		Recovery = 5.96%#			
26) Nitrobenzene-d5	10.10	82	216584	5.32	ng	-0.02
Spiked Amount 50.000	Range 28 - 95		Recovery = 10.64%#			
49) 2-Fluorobiphenyl	14.65	172	472033	4.94	ng	0.00
Spiked Amount 50.000	Range 46 - 95		Recovery = 9.88%#			
75) 2,4,6-Tribromophenol	18.41	330	60413	4.76	ng	0.01
Spiked Amount 50.000	Range 47 - 146		Recovery = 9.52%#			
108) Terphenyl-d14	24.11	244	587799	5.10	ng	0.03
Spiked Amount 50.000	Range 50 - 144		Recovery = 10.20%#			

Target Compounds						Qvalue
2) 2-Picoline	4.99	93	207485m	6.24	ng	
66) Fluorene	17.77	166	219829	~~2.28~~	~~ng~~ #<5	95
94) Anthracene	20.39	178	375947	~~2.50~~	~~ng~~ #<5	51
104) Fluoranthene	23.22	202	2443353	15.11	ng	99
106) Pyrene	23.74	202	6577155	39.10	ng	98
121) Benz(a)anthracene	26.25	228	2426200m	15.34	ng	
124) Chrysene	26.32	228	4639654	33.42	ng	94
128) Benzo[b]fluoranthene	28.24	252	1130455m	9.06	ng	
129) Benzo(k)fluoranthene	28.27	252	274713m	~~2.49~~	~~ng~~ <5	
130) Benzo(a)pyrene	28.78	252	1863378m	16.48	ng	
132) Indeno[1,2,3,cd]pyrene	31.45	276	353290	~~3.38~~	~~ng~~	99
133) Dibenz(a,h)anthracene	31.47	278	244780	~~2.85~~	~~ng~~	90
134) Benzo(g,h,i)perylene	32.18	276	664268	8.17	ng	100

(#) = qualifier out of range (m) = manual integration
1C061107.D 1C611261.M Wed Jul 16 12:31:30 2003 TEST

Quantitation Report (QT Reviewed)

Data File : D:\BPARUCHU\DATA\1C061103\1C061108.D Vial: 8
Acq On : 11 Jun 2003 11:07 pm Operator: BP
Sample : 0305007-09 @ Indiana Harbor Inst : GCMS1
Misc : WO # 0305007 13.7 g/20 mL/85.2%S PAHs Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 25 10:57 2003 Quant Results File: 1C611261.RES

Quant Method : D:\BPARUCHU\METHODS\1C611261.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002
Last Update : Tue Jun 24 13:09:16 2003
Response via : Continuing Cal File: D:\BPARUCHU\DATA\1C061103\1C061102.D
DataAcq Meth : 1C611261

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.79	150	2684715	50.00	ng	0.00
25) Naphthalene-d8	11.85	136	5819666	50.00	ng	0.00
44) Acenaphthene-d10	16.35	164	3790843	50.00	ng	0.00
71) Phenanthrene-d10	20.22	188	6278081	50.00	ng	0.00
105) Chrysene-d12	26.26	240	6110666	50.00	ng	0.03
125) Perylene-d12	29.02	264	4370170	50.00	ng	0.06
System Monitoring Compounds						
5) 2-Fluorophenol	6.09	112	122948m	3.46	ng	0.00
Spiked Amount 50.000	Range 25 - 90		Recovery = 6.92%#			
10) Phenol-d5	8.10	99	129556	2.85	ng	0.02
Spiked Amount 50.000	Range 38 - 103		Recovery = 5.70%#			
26) Nitrobenzene-d5	10.10	82	174868	4.42	ng	-0.02
Spiked Amount 50.000	Range 28 - 95		Recovery = 8.84%#			
49) 2-Fluorobiphenyl	14.64	172	388927	4.18	ng	0.00
Spiked Amount 50.000	Range 46 - 95		Recovery = 8.36%#			
75) 2,4,6-Tribromophenol	18.41	330	55554	4.43	ng	0.00
Spiked Amount 50.000	Range 47 - 146		Recovery = 8.86%#			
108) Terphenyl-d14	24.11	244	591278	5.41	ng	0.02
Spiked Amount 50.000	Range 50 - 144		Recovery = 10.82%#			
Target Compounds						Qvalue
104) Fluoranthene	23.21	202	1912021	11.98	ng	98
106) Pyrene	23.73	202	6910081	43.26	ng	98
121) Benz(a)anthracene	26.27	228	2638884m	17.58	ng	
124) Chrysene	26.31	228	5548703	42.09	ng	95
128) Benzo[b]fluoranthene	28.23	252	2023011m	14.26	ng	
129) Benzo(k)fluoranthene	28.26	252	405921m	~~3.23 ng~~		
130) Benzo(a)pyrene	28.78	252	3450021m	26.83	ng	
132) Indeno[1,2,3,cd]pyrene	31.44	276	572580	~~4.82 ng~~		98
133) Dibenz(a,h)anthracene	31.46	278	432785	~~4.44 ng~~		97
134) Benzo(g,h,i)perylene	32.17	276	1093277	11.83	ng	99

(#) = qualifier out of range (m) = manual integration
1C061108.D 1C611261.M Wed Jul 16 12:31:58 2003 TEST

Quantitation Report (QT Reviewed)

Data File : D:\BPARUCHU\DATA\1C061103\1C061109.D Vial: 9
Acq On : 11 Jun 2003 11:54 pm Operator: BP
Sample : 0305007-10 @ Indiana Harbor Inst : GCMS1
Misc : WO # 0305007 4.22 g/20 mL/82.7% PAHs Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 25 11:02 2003 Quant Results File: 1C611261.RES

Quant Method : D:\BPARUCHU\METHODS\1C611261.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002
Last Update : Tue Jun 24 13:09:16 2003
Response via : Continuing Cal File: D:\BPARUCHU\DATA\1C061103\1C061102.D
DataAcq Meth : 1C611261

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.80	150	2448961	50.00	ng	0.00
25) Naphthalene-d8	11.85	136	5483870	50.00	ng	0.00
44) Acenaphthene-d10	16.36	164	3920588	50.00	ng	0.00
71) Phenanthrene-d10	20.22	188	5540259	50.00	ng	0.01
105) Chrysene-d12	26.28	240	6062481	50.00	ng	0.05
125) Perylene-d12	29.04	264	3495249	50.00	ng	0.07

System Monitoring Compounds						
5) 2-Fluorophenol	6.12	112	128850m	3.98	ng	0.02
Spiked Amount 50.000	Range 25 - 90		Recovery = 7.96%#			
10) Phenol-d5	8.12	99	138588	3.34	ng	0.03
Spiked Amount 50.000	Range 38 - 103		Recovery = 6.68%#			
26) Nitrobenzene-d5	10.11	82	182603	4.90	ng	-0.02
Spiked Amount 50.000	Range 28 - 95		Recovery = 9.80%#			
49) 2-Fluorobiphenyl	14.65	172	454777	4.72	ng	0.00
Spiked Amount 50.000	Range 46 - 95		Recovery = 9.44%#			
75) 2,4,6-Tribromophenol	18.42	330	47247	4.27	ng	0.02
Spiked Amount 50.000	Range 47 - 146		Recovery = 8.54%#			
108) Terphenyl-d14	24.13	244	520949	4.80	ng	0.04
Spiked Amount 50.000	Range 50 - 144		Recovery = 9.60%#			

Target Compounds						Qvalue
66) Fluorene	17.77	166	286919	~~2.94~~ 2.5	ng #	93
91) Phenanthrene	20.27	178	269830	~~2.28~~	ng #	92
94) Anthracene	20.40	178	272183m	~~2.08~~	ng	
104) Fluoranthene	23.22	202	1792259	12.72	ng	98
106) Pyrene	23.74	202	5459995	34.45	ng	99
121) Benz(a)anthracene	26.25	228	1597406m	10.72	ng	
124) Chrysene	26.32	228	3666013	28.03	ng #	93
128) Benzo[b]fluoranthene	28.25	252	1069661m	9.43	ng	
129) Benzo(k)fluoranthene	28.28	252	230771m	~~2.30~~	ng	
130) Benzo(a)pyrene	28.80	252	1596841	15.53	ng	94
132) Indeno[1,2,3,cd]pyrene	31.48	276	327147	~~3.44~~ 2.5	ng	97
133) Dibenz(a,h)anthracene	31.49	278	184179	~~2.36~~	ng	93
134) Benzo(g,h,i)perylene	32.20	276	566156	7.66	ng	99

(#) = qualifier out of range (m) = manual integration
1C061109.D 1C611261.M Wed Jul 16 12:32:30 2003 TEST

Quantitation Report (QT Reviewed)

Data File : D:\BPARUCHU\DATA\1C061103\1C061110.D Vial: 10
Acq On : 12 Jun 2003 12:41 am Operator: BP
Sample : 0305007-11 @ Indiana Harbor Inst : GCMS1
Misc : WO # 0305007 5.78 g/20 mL/86.1%S PAHs Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 25 11:05 2003 Quant Results File: 1C611261.RES

Quant Method : D:\BPARUCHU\METHODS\1C611261.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002
Last Update : Tue Jun 24 13:09:16 2003
Response via : Continuing Cal File: D:\BPARUCHU\DATA\1C061103\1C061102.D
DataAcq Meth : 1C611261

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.80	150	2642187	50.00	ng	0.00
25) Naphthalene-d8	11.85	136	6130917	50.00	ng	0.00
44) Acenaphthene-d10	16.36	164	3896763	50.00	ng	0.01
71) Phenanthrene-d10	20.23	188	6196452	50.00	ng	0.02
105) Chrysene-d12	26.27	240	6348585	50.00	ng	0.05
125) Perylene-d12	29.03	264	4690093	50.00	ng	0.06
System Monitoring Compounds						
5) 2-Fluorophenol	6.13	112	155634m	4.45	ng	0.04
Spiked Amount 50.000	Range 25 - 90		Recovery	= 8.90%#		
10) Phenol-d5	8.12	99	157576	3.52	ng	0.03
Spiked Amount 50.000	Range 38 - 103		Recovery	= 7.04%#		
26) Nitrobenzene-d5	10.10	82	199953	4.80	ng	-0.03
Spiked Amount 50.000	Range 28 - 95		Recovery	= 9.60%#		
49) 2-Fluorobiphenyl	14.65	172	461994	4.82	ng	0.00
Spiked Amount 50.000	Range 46 - 95		Recovery	= 9.64%#		
75) 2,4,6-Tribromophenol	18.42	330	58529	4.73	ng	0.02
Spiked Amount 50.000	Range 47 - 146		Recovery	= 9.46%#		
108) Terphenyl-d14	24.12	244	581469	5.12	ng	0.04
Spiked Amount 50.000	Range 50 - 144		Recovery	= 10.24%#		

Target Compounds						Qvalue
66) Fluorene	17.77	166	491810	5.08	ng #	91
91) Phenanthrene	20.28	178	1747984	13.21	ng	98
94) Anthracene	20.40	178	432595m	~~2.95 ng~~ 2.5		
104) Fluoranthene	23.24	202	2531363	16.07	ng	99
106) Pyrene	23.76	202	7933173	47.80	ng	97
121) Benz(a)anthracene	26.25	228	2263273m	14.51	ng	
124) Chrysene	26.32	228	5372507	39.22	ng #	94
128) Benzo[b]fluoranthene	28.23	252	1684307m	11.06	ng	
129) Benzo(k)fluoranthene	28.27	252	286877m	~~2.13 ng~~		
130) Benzo(a)pyrene	28.78	252	2609207m	18.91	ng	
132) Indeno[1,2,3,cd]pyrene	31.45	276	506209	~~3.97 ng~~		99
133) Dibenz(a,h)anthracene	31.46	278	315246	~~3.01~~ ng		98
134) Benzo(g,h,i)perylene	32.17	276	911734	9.19	ng	99

(#) = qualifier out of range (m) = manual integration
1C061110.D 1C611261.M Wed Jul 16 12:32:56 2003 TEST

Quantitation Report (QT Reviewed)

Data File : D:\BPARUCHU\DATA\1C061103\1C061111.D Vial: 11
Acq On : 12 Jun 2003 1:28 am Operator: BP
Sample : 0305007-12 @ Indiana Harbor Inst : GCMS1
Misc : WO # 0305007 13.1 g/20 mL/86.8%S PAHs Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 25 11:08 2003 Quant Results File: 1C611261.RES

Quant Method : D:\BPARUCHU\METHODS\1C611261.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002
Last Update : Tue Jun 24 13:09:16 2003
Response via : Continuing Cal File: D:\BPARUCHU\DATA\1C061103\1C061102.D
DataAcq Meth : 1C611261

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.80	150	2757433	50.00	ng	0.00
25) Naphthalene-d8	11.85	136	6121488	50.00	ng	0.00
44) Acenaphthene-d10	16.36	164	3948665	50.00	ng	0.00
71) Phenanthrene-d10	20.23	188	6375736	50.00	ng	0.01
105) Chrysene-d12	26.29	240	7151283	50.00	ng	0.07
125) Perylene-d12	29.08	264	4368058	50.00	ng	0.11

System Monitoring Compounds						
5) 2-Fluorophenol	6.10	112	130375m	3.58	ng	0.00
Spiked Amount 50.000	Range 25 - 90		Recovery = 7.16%#			
10) Phenol-d5	8.12	99	150391	3.22	ng	0.03
Spiked Amount 50.000	Range 38 - 103		Recovery = 6.44%#			
26) Nitrobenzene-d5	10.10	82	185427	4.46	ng	-0.02
Spiked Amount 50.000	Range 28 - 95		Recovery = 8.92%#			
49) 2-Fluorobiphenyl	14.65	172	446294	4.60	ng	0.00
Spiked Amount 50.000	Range 46 - 95		Recovery = 9.20%#			
75) 2,4,6-Tribromophenol	18.41	330	56660	4.45	ng	0.00
Spiked Amount 50.000	Range 47 - 146		Recovery = 8.90%#			
108) Terphenyl-d14	24.13	244	533449	4.17	ng	0.05
Spiked Amount 50.000	Range 50 - 144		Recovery = 8.34%#			

Target Compounds							Qvalue
104) Fluoranthene	23.23	202	1649693	10.18	ng		99
106) Pyrene	23.75	202	6112228	32.69	ng		98
121) Benz(a)anthracene	26.27	228	2228742	12.68	ng	#	71
124) Chrysene	26.34	228	5279024	34.22	ng	#	91
128) Benzo[b]fluoranthene	28.28	252	1612001m	11.37	ng		
129) Benzo(k)fluoranthene	28.31	252	374882m	~~2.98~~ ng			
130) Benzo(a)pyrene	28.83	252	2783644m	21.66	ng		
133) Dibenz(a,h)anthracene	31.55	278	288525	~~2.96~~ ng		#	68
134) Benzo(g,h,i)perylene	32.25	276	767241	8.31	ng		98

(#) = qualifier out of range (m) = manual integration
1C061111.D 1C611261.M Wed Jul 16 12:33:21 2003 TEST

Quantitation Report (QT Reviewed)

Data File : D:\BPARUCHU\DATA\1C061103\1C061112.D Vial: 12
Acq On : 12 Jun 2003 2:16 am Operator: BP
Sample : 0305007-13 @ Indiana Harbor Inst : GCMS1
Misc : WO # 0305007 4.56 g/20 mL/58.9%S PAHs Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 25 11:12 2003 Quant Results File: 1C611261.RES

Quant Method : D:\BPARUCHU\METHODS\1C611261.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002
Last Update : Tue Jun 24 13:09:16 2003
Response via : Continuing Cal File: D:\BPARUCHU\DATA\1C061103\1C061102.D
DataAcq Meth : 1C611261

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.80	150	2798165	50.00	ng	0.00
25) Naphthalene-d8	11.85	136	7199386	50.00	ng	0.00
44) Acenaphthene-d10	16.36	164	4701298	50.00	ng	0.00
71) Phenanthrene-d10	20.23	188	6546441	50.00	ng	0.01
105) Chrysene-d12	26.26	240	6180193	50.00	ng	0.04
125) Perylene-d12	29.02	264	4543771	50.00	ng	0.05

System Monitoring Compounds						
5) 2-Fluorophenol	6.09	112	115667m	3.13	ng	0.00
Spiked Amount 50.000	Range 25 - 90		Recovery	= 6.26%#		
10) Phenol-d5	8.11	99	133047	2.81	ng	0.02
Spiked Amount 50.000	Range 38 - 103		Recovery	= 5.62%#		
26) Nitrobenzene-d5	10.11	82	193278	3.95	ng	-0.02
Spiked Amount 50.000	Range 28 - 95		Recovery	= 7.90%#		
49) 2-Fluorobiphenyl	14.65	172	549919	4.76	ng	0.00
Spiked Amount 50.000	Range 46 - 95		Recovery	= 9.52%#		
75) 2,4,6-Tribromophenol	18.42	330	53955	4.13	ng	0.02
Spiked Amount 50.000	Range 47 - 146		Recovery	= 8.26%#		
108) Terphenyl-d14	24.12	244	564822	5.11	ng	0.03
Spiked Amount 50.000	Range 50 - 144		Recovery	= 10.22%#		

Target Compounds						Qvalue
66) Fluorene	17.77	166	468860	~~4.01~~ 15	ng #	96
94) Anthracene	20.40	178	361613	~~2.33~~	ng " #	54
104) Fluoranthene	23.22	202	1936421	11.63	ng	99
106) Pyrene	23.74	202	6000227	37.14	ng	98
121) Benz(a)anthracene	26.24	228	1901622m	12.52	ng	
124) Chrysene	26.31	228	3885405	29.14	ng #	93
128) Benzo[b]fluoranthene	28.23	252	1057319m	7.17	ng	
129) Benzo(k)fluoranthene	28.24	252	362122m	~~2.77~~	ng "	
130) Benzo(a)pyrene	28.77	252	1871382m	14.00	ng	
132) Indeno[1,2,3,cd]pyrene	31.43	276	333686	~~2.70~~	ng "	96
133) Dibenz(a,h)anthracene	31.45	278	212448	~~2.10~~	ng " #	69
134) Benzo(g,h,i)perylene	32.15	276	596061	6.20	ng	97

(#) = qualifier out of range (m) = manual integration
1C061112.D 1C611261.M Wed Jul 16 12:33:53 2003 TEST

Quantitation Report (QT Reviewed)

Data File : D:\BPARUCHU\DATA\1C061103\1C061113.D Vial: 13
Acq On : 12 Jun 2003 3:04 am Operator: BP
Sample : 0305007-14 @ Indiana Harbor Inst : GCMS1
Misc : WO # 0305007 4.27 g/20 mL/70.9%S PAHs Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 25 11:16 2003 Quant Results File: 1C611261.RES

Quant Method : D:\BPARUCHU\METHODS\1C611261.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002
Last Update : Tue Jun 24 13:09:16 2003
Response via : Continuing Cal File: D:\BPARUCHU\DATA\1C061103\1C061102.D
DataAcq Meth : 1C611261

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.80	150	3056942	50.00 ng	0.00
25) Naphthalene-d8	11.86	136	7330399	50.00 ng	0.00
44) Acenaphthene-d10	16.37	164	4750083	50.00 ng	0.01
71) Phenanthrene-d10	20.23	188	7360047	50.00 ng	0.02
105) Chrysene-d12	26.25	240	6921482	50.00 ng	0.03
125) Perylene-d12	29.01	264	4992940	50.00 ng	0.04
System Monitoring Compounds					
5) 2-Fluorophenol	6.10	112	141607m	3.50 ng	0.01
Spiked Amount 50.000	Range 25 - 90		Recovery	= 7.00%#	
10) Phenol-d5	8.11	99	157516	3.04 ng	0.02
Spiked Amount 50.000	Range 38 - 103		Recovery	= 6.08%#	
26) Nitrobenzene-d5	10.11	82	210155	4.22 ng	-0.02
Spiked Amount 50.000	Range 28 - 95		Recovery	= 8.44%#	
49) 2-Fluorobiphenyl	14.65	172	507626	4.35 ng	0.00
Spiked Amount 50.000	Range 46 - 95		Recovery	= 8.70%#	
75) 2,4,6-Tribromophenol	18.42	330	59113	4.02 ng	0.02
Spiked Amount 50.000	Range 47 - 146		Recovery	= 8.04%#	
108) Terphenyl-d14	24.11	244	675943	5.46 ng	0.03
Spiked Amount 50.000	Range 50 - 144		Recovery	= 10.92%#	
Target Compounds					Qvalue
66) Fluorene	17.77	166	413488	~~3.50 ng~~ 5 #	91
104) Fluoranthene	23.22	202	2275757	12.16 ng	99
106) Pyrene	23.73	202	6323267	34.95 ng	98
121) Benz(a)anthracene	26.23	228	1765542m	10.38 ng	
124) Chrysene	26.30	228	4353788	29.16 ng	96
128) Benzo[b]fluoranthene	28.22	252	1378935m	8.51 ng	
129) Benzo(k)fluoranthene	28.25	252	317600m	~~2.21 ng~~	
130) Benzo(a)pyrene	28.77	252	2112562m	14.38 ng	
132) Indeno[1,2,3,cd]pyrene	31.43	276	374096	~~2.76 ng~~	97
133) Dibenz(a,h)anthracene	31.44	278	238779	~~2.14 ng~~	92
134) Benzo(g,h,i)perylene	32.14	276	662969	6.28 ng	98

(#) = qualifier out of range (m) = manual integration
1C061113.D 1C611261.M Wed Jul 16 12:34:14 2003 TEST

Quantitation Report (QT Reviewed)

Data File : D:\BPARUCHU\DATA\1C061103\1C061114.D Vial: 14
Acq On : 12 Jun 2003 3:52 am Operator: BP
Sample : 0305007-15 @ Indiana Harbor Inst : GCMS1
Misc : WO # 0305007 9.51 g/20 mL/78.9%S PAHs Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 25 11:22 2003 Quant Results File: 1C611261.RES

Quant Method : D:\BPARUCHU\METHODS\1C611261.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002
Last Update : Tue Jun 24 13:09:16 2003
Response via : Continuing Cal File: D:\BPARUCHU\DATA\1C061103\1C061102.D
DataAcq Meth : 1C611261

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.80	150	3691258	50.00	ng	0.00
25) Naphthalene-d8	11.86	136	8232257	50.00	ng	0.00
44) Acenaphthene-d10	16.37	164	5121312	50.00	ng	0.01
71) Phenanthrene-d10	20.24	188	7695722	50.00	ng	0.02
105) Chrysene-d12	26.29	240	8267415	50.00	ng	0.07
125) Perylene-d12	29.06	264	5442394	50.00	ng	0.09

System Monitoring Compounds						
5) 2-Fluorophenol	6.11	112	166322m	3.41	ng	0.02
Spiked Amount 50.000	Range 25 - 90		Recovery = 6.82%#			
10) Phenol-d5	8.11	99	205319	3.28	ng	0.02
Spiked Amount 50.000	Range 38 - 103		Recovery = 6.56%#			
26) Nitrobenzene-d5	10.10	82	270683	4.84	ng	-0.02
Spiked Amount 50.000	Range 28 - 95		Recovery = 9.68%#			
49) 2-Fluorobiphenyl	14.66	172	626643	4.98	ng	0.00
Spiked Amount 50.000	Range 46 - 95		Recovery = 9.96%#			
75) 2,4,6-Tribromophenol	18.42	330	73761	4.80	ng	0.02
Spiked Amount 50.000	Range 47 - 146		Recovery = 9.60%#			
108) Terphenyl-d14	24.13	244	701475	4.74	ng	0.05
Spiked Amount 50.000	Range 50 - 144		Recovery = 9.48%#			

Target Compounds							Qvalue
66) Fluorene	17.78	166	330479	~~2.60~~ ng	LS		94
94) Anthracene	20.41	178	400814	~~2.20~~ ng	"	#	35
104) Fluoranthene	23.23	202	2689186	13.74	ng		99
106) Pyrene	23.76	202	8880324	41.09	ng		98
121) Benz(a)anthracene	26.27	228	3214953	15.83	ng	#	77
124) Chrysene	26.35	228	6460597	36.22	ng	#	92
128) Benzo[b]fluoranthene	28.27	252	1727755m	9.78	ng		
129) Benzo(k)fluoranthene	28.29	252	416873m	~~2.66~~ ng	"		
130) Benzo(a)pyrene	28.82	252	2766473m	17.28	ng		
132) Indeno[1,2,3,cd]pyrene	31.49	276	547929	~~3.70~~ ng	"		95
133) Dibenz(a,h)anthracene	31.50	278	377186	~~3.11~~ ng	"		99
134) Benzo(g,h,i)perylene	32.21	276	968066	8.41	ng		97

(#) = qualifier out of range (m) = manual integration
1C061114.D 1C611261.M Wed Jul 16 12:34:39 2003 TEST

Quantitation Report (QT Reviewed)

Data File : D:\BPARUCHU\DATA\1C061103\1C061115.D Vial: 15
Acq On : 12 Jun 2003 4:40 am Operator: BP
Sample : 0305007-16 @ Indiana Harbor Inst : GCMS1
Misc : WO # 0305007 4.02 g/20 mL/84.9%S PAHs Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 25 11:26 2003 Quant Results File: 1C611261.RES

Quant Method : D:\BPARUCHU\METHODS\1C611261.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002
Last Update : Tue Jun 24 13:09:16 2003
Response via : Continuing Cal File: D:\BPARUCHU\DATA\1C061103\1C061102.D
DataAcq Meth : 1C611262

Internal Standards	R.T.	QIon	Response	Conc.	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.80	150	3293924m	50.00	ng	0.00
25) Naphthalene-d8	11.86	136	7247603	50.00	ng	0.00
44) Acenaphthene-d10	16.37	164	4734230	50.00	ng	0.01
71) Phenanthrene-d10	20.24	188	7214590	50.00	ng	0.03
105) Chrysene-d12	26.32	240	6247146	50.00	ng	0.10
125) Perylene-d12	29.11	264	4671144	50.00	ng	0.15
System Monitoring Compounds						
5) 2-Fluorophenol	6.12	112	169382m	3.89	ng	0.03
Spiked Amount 50.000	Range 25 - 90		Recovery = 7.78%#			
10) Phenol-d5	8.12	99	171750	3.08	ng	0.03
Spiked Amount 50.000	Range 38 - 103		Recovery = 6.16%#			
26) Nitrobenzene-d5	10.11	82	225452	4.58	ng	-0.02
Spiked Amount 50.000	Range 28 - 95		Recovery = 9.16%#			
49) 2-Fluorobiphenyl	14.65	172	552629	4.75	ng	0.00
Spiked Amount 50.000	Range 46 - 95		Recovery = 9.50%#			
75) 2,4,6-Tribromophenol	18.42	330	60904	4.23	ng	0.02
Spiked Amount 50.000	Range 47 - 146		Recovery = 8.46%#			
108) Terphenyl-d14	24.16	244	596837	5.34	ng	0.07
Spiked Amount 50.000	Range 50 - 144		Recovery = 10.68%#			

Target Compounds							Qvalue
91) Phenanthrene	20.29	178	565971	3.67	ng		92
104) Fluoranthene	23.25	202	2126799	11.59	ng		98
106) Pyrene	23.78	202	10132275	62.04	ng		96
121) Benz(a)anthracene	26.30	228	2195011	14.30	ng	#	92
124) Chrysene	26.37	228	4406391	32.69	ng	#	88
128) Benzo[b]fluoranthene	28.32	252	2128126m	14.03	ng		
129) Benzo(k)fluoranthene	28.34	252	489371m	3.64	ng		
130) Benzo(a)pyrene	28.88	252	3362105m	24.46	ng		
132) Indeno[1,2,3,cd]pyrene	31.57	276	531731	4.19	ng	#	88
133) Dibenz(a,h)anthracene	31.58	278	392513	3.77	ng		96
134) Benzo(g,h,i)perylene	32.30	276	941083	9.53	ng		95

(#) = qualifier out of range (m) = manual integration
1C061115.D 1C611261.M Wed Jul 16 12:35:13 2003 TEST

Quantitation Report (QT Reviewed)

Data File : D:\BPARUCHU\DATA\1C061103\1C061118.D Vial: 18
Acq On : 12 Jun 2003 7:04 am Operator: BP
Sample : 0305007-17 @ Indiana Harbor Inst : GCMS1
Misc : WO # 0305007 4.22 g/20 mL/85.2%S PAHs Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 15 16:49 2003 Quant Results File: 1C611262.RES

Quant Method : D:\BPARUCHU\METHODS\1C611262.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002
Last Update : Wed Jun 25 13:39:39 2003
Response via : Continuing Cal File: D:\BPARUCHU\DATA\1C061103\1C061117.D
DataAcq Meth : 1C611262

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.80	150	3687219	50.00	ng	-0.01
25) Naphthalene-d8	11.86	136	7909919	50.00	ng	-0.01
44) Acenaphthene-d10	16.35	164	5144085	50.00	ng	-0.01
71) Phenanthrene-d10	20.22	188	8476939	50.00	ng	-0.01
105) Chrysene-d12	26.28	240	7731513	50.00	ng	0.05
125) Perylene-d12	29.09	264	5077921	50.00	ng	0.11

System Monitoring Compounds						
5) 2-Fluorophenol	6.13	112	197615m	3.87	ng	0.02
Spiked Amount 50.000	Range 25 - 90		Recovery = 7.74%#			
10) Phenol-d5	8.11	99	210791	3.37	ng	0.01
Spiked Amount 50.000	Range 38 - 103		Recovery = 6.74%#			
26) Nitrobenzene-d5	10.10	82	255385	4.43	ng	-0.03
Spiked Amount 50.000	Range 28 - 95		Recovery = 8.86%#			
49) 2-Fluorobiphenyl	14.64	172	565487	4.07	ng	-0.02
Spiked Amount 50.000	Range 46 - 95		Recovery = 8.14%#			
75) 2,4,6-Tribromophenol	18.40	330	77299	4.68	ng	-0.01
Spiked Amount 50.000	Range 47 - 146		Recovery = 9.36%#			
108) Terphenyl-d14	24.12	244	621974	4.31	ng	0.03
Spiked Amount 50.000	Range 50 - 144		Recovery = 8.62%#			

Target Compounds						Qvalue
106) Pyrene	23.72	202	2129347	10.93	ng	98
124) Chrysene	26.31	228	973873m	5.79	ng	

(#) = qualifier out of range (m) = manual integration
1C061118.D 1C611262.M Wed Jul 16 12:36:00 2003 TEST

Quantitation Report (QT Reviewed)

Data File : D:\BPARUCHU\DATA\1C061103\1C061119.D Vial: 19
Acq On : 12 Jun 2003 7:52 am Operator: BP
Sample : 0305007-18 @ Indiana Harbor Inst : GCMS1
Misc : WO # 0305007 12.0 g/20 mL/89.8%S PAHs Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 15 16:53 2003 Quant Results File: 1C611262.RES

Quant Method : D:\BPARUCHU\METHODS\1C611262.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002
Last Update : Wed Jun 25 13:39:39 2003
Response via : Continuing Cal File: D:\BPARUCHU\DATA\1C061103\1C061117.D
DataAcq Meth : 1C611262

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.80	150	3775946m	50.00	ng	-0.01
25) Naphthalene-d8	11.86	136	7952087	50.00	ng	0.00
44) Acenaphthene-d10	16.37	164	4825202	50.00	ng	0.01
71) Phenanthrene-d10	20.26	188	7138459	50.00	ng	0.04
105) Chrysene-d12	26.35	240	6055146	50.00	ng	0.12
125) Perylene-d12	29.14	264	4935869	50.00	ng	0.16
System Monitoring Compounds						
5) 2-Fluorophenol	6.14	112	185227m	3.54	ng	0.03
Spiked Amount 50.000	Range 25 - 90		Recovery = 7.08%#			
10) Phenol-d5	8.14	99	205281	3.20	ng	0.04
Spiked Amount 50.000	Range 38 - 103		Recovery = 6.40%#			
26) Nitrobenzene-d5	10.11	82	241048	4.16	ng	-0.02
Spiked Amount 50.000	Range 28 - 95		Recovery = 8.32%#			
49) 2-Fluorobiphenyl	14.66	172	593027	4.55	ng	0.00
Spiked Amount 50.000	Range 46 - 95		Recovery = 9.10%#			
75) 2,4,6-Tribromophenol	18.44	330	62087	4.46	ng	0.03
Spiked Amount 50.000	Range 47 - 146		Recovery = 8.92%#			
108) Terphenyl-d14	24.19	244	692923	6.13	ng	0.10
Spiked Amount 50.000	Range 50 - 144		Recovery = 12.26%#			

Target Compounds						Qvalue
66) Fluorene	17.79	166	1016910	8.79	ng #	90
91) Phenanthrene	20.32	178	2369270	14.95	ng	96
94) Anthracene	20.44	178	999840m	5.94	ng	
104) Fluoranthene	23.31	202	6513517	30.59	ng	99
106) Pyrene	23.84	202	18176828	~~119.15~~	~~ng~~ #	92
121) Benz(a)anthracene	26.32	228	4138189	26.97	ng #	63
124) Chrysene	26.42	228	11678771m	~~88.65~~	~~ng~~	
128) Benzo[b]fluoranthene	28.35	252	3988964m	24.21	ng	
129) Benzo(k)fluoranthene	28.37	252	957634m	6.69	ng	
130) Benzo(a)pyrene	28.91	252	6379438m	43.98	ng	
132) Indeno[1,2,3,cd]pyrene	31.61	276	875771	6.36	ng	92
133) Dibenz(a,h)anthracene	31.62	278	645611	5.88	ng	98
134) Benzo(g,h,i)perylene	32.34	276	1651114	15.22	ng	97

(#) = qualifier out of range (m) = manual integration
1C061119.D 1C611262.M Wed Jul 16 12:36:51 2003 TEST

Quantitation Report (QT Reviewed)

Data File : D:\BPARUCHU\DATA\1C061103\1C061120.D Vial: 20
Acq On : 12 Jun 2003 8:41 am Operator: BP
Sample : 0305007-19 @ Indiana Harbor Inst : GCMS1
Misc : WO # 0305007 10.0 g/20 mL/89.0%S PAHs Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 15 16:57 2003 Quant Results File: 1C611262.RES

Quant Method : D:\BPARUCHU\METHODS\1C611262.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002
Last Update : Wed Jun 25 13:39:39 2003
Response via : Continuing Cal File: D:\BPARUCHU\DATA\1C061103\1C061117.D
DataAcq Meth : 1C611262

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.80	150	3482079m	50.00	ng	-0.02
25) Naphthalene-d8	11.87	136	6944784	50.00	ng	0.00
44) Acenaphthene-d10	16.40	164	4389949	50.00	ng	0.03
71) Phenanthrene-d10	20.27	188	6449339	50.00	ng	0.05
105) Chrysene-d12	26.27	240	7114532	50.00	ng	0.03
125) Perylene-d12	29.04	264	4868393	50.00	ng	0.06

System Monitoring Compounds						
5) 2-Fluorophenol	6.11	112	139796m	2.90	ng	0.00
Spiked Amount 50.000	Range 25 - 90		Recovery = 5.80%#			
10) Phenol-d5	8.12	99	187106	3.17	ng	0.01
Spiked Amount 50.000	Range 38 - 103		Recovery = 6.34%#			
26) Nitrobenzene-d5	10.11	82	244846	4.84	ng	-0.02
Spiked Amount 50.000	Range 28 - 95		Recovery = 9.68%#			
49) 2-Fluorobiphenyl	14.67	172	525528	4.43	ng	0.01
Spiked Amount 50.000	Range 46 - 95		Recovery = 8.86%#			
75) 2,4,6-Tribromophenol	18.47	330	58780	4.68	ng	0.05
Spiked Amount 50.000	Range 47 - 146		Recovery = 9.36%#			
108) Terphenyl-d14	24.13	244	640922	4.83	ng	0.04
Spiked Amount 50.000	Range 50 - 144		Recovery = 9.66%#			

Target Compounds						Qvalue
43) 2-Methylnaphthalene	13.69	142	520966	5.05	ng #	88
66) Fluorene	17.81	166	573189	5.45	ng #	84
91) Phenanthrene	20.33	178	1595951	11.15	ng	95
104) Fluoranthene	23.24	202	1752612	9.11	ng	97
106) Pyrene	23.77	202	8392110	46.82	ng	98
121) Benz(a)anthracene	26.25	228	1794549m	9.95	ng	
124) Chrysene	26.32	228	5920226	38.25	ng	93
128) Benzo[b]fluoranthene	28.24	252	2161630m	13.30	ng	
130) Benzo(a)pyrene	28.80	252	3777175m	26.40	ng	
134) Benzo(g,h,i)perylene	32.21	276	1409536	13.18	ng	98

(#) = qualifier out of range (m) = manual integration
1C061120.D 1C611262.M Wed Jul 16 12:37:34 2003 TEST

Quantitation Report (QT Reviewed)

Data File : D:\BPARUCHU\DATA\1C061103\1C061121.D Vial: 21
Acq On : 12 Jun 2003 9:29 am Operator: BP
Sample : 0305007-20 @ Indiana Harbor Inst : GCMS1
Misc : WO # 0305007 9.77 g/20 mL/84.7%S PAHs Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 15 17:00 2003 Quant Results File: 1C611262.RES

Quant Method : D:\BPARUCHU\METHODS\1C611262.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002
Last Update : Wed Jun 25 13:39:39 2003
Response via : Continuing Cal File: D:\BPARUCHU\DATA\1C061103\1C061117.D
DataAcq Meth : 1C611262

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.80	150	3255082	50.00	ng	0.00
25) Naphthalene-d8	11.86	136	6245215	50.00	ng	0.00
44) Acenaphthene-d10	16.40	164	4341725	50.00	ng	0.04
71) Phenanthrene-d10	20.30	188	6412387	50.00	ng	0.07
105) Chrysene-d12	26.39	240	3837480	50.00	ng	0.16
125) Perylene-d12	29.20	264	4658429	50.00	ng	0.22

System Monitoring Compounds						
5) 2-Fluorophenol	6.12	112	142630m	3.17	ng	0.01
Spiked Amount 50.000	Range 25 - 90		Recovery = 6.34%#			
10) Phenol-d5	8.12	99	157548m	2.85	ng	0.02
Spiked Amount 50.000	Range 38 - 103		Recovery = 5.70%#			
26) Nitrobenzene-d5	10.11	82	230984	5.08	ng	-0.03
Spiked Amount 50.000	Range 28 - 95		Recovery = 10.16%#			
49) 2-Fluorobiphenyl	14.68	172	562397	4.80	ng	0.02
Spiked Amount 50.000	Range 46 - 95		Recovery = 9.60%#			
75) 2,4,6-Tribromophenol	18.48	330	55291	4.42	ng	0.07
Spiked Amount 50.000	Range 47 - 146		Recovery = 8.84%#			
108) Terphenyl-d14	24.22	244	702516	9.81	ng	0.13
Spiked Amount 50.000	Range 50 - 144		Recovery = 19.62%#			

Target Compounds							Qvalue
104) Fluoranthene	23.34	202	7644368	39.97	ng		95
106) Pyrene	23.90	202	18047541	~~186.67~~	ng	#	84
121) Benz(a)anthracene	26.36	228	3124136	~~32.13 ng~~		#	51
124) Chrysene	26.49	228	11689136m	~~140.01 ng~~			
128) Benzo[b]fluoranthene	28.42	252	4555338m	29.29	ng		
129) Benzo(k)fluoranthene	28.44	252	1396217m	10.33	ng		
130) Benzo(a)pyrene	28.98	252	8011877m	58.53	ng		
132) Indeno[1,2,3,cd]pyrene	31.67	276	1179477	9.07	ng		97
133) Dibenz(a,h)anthracene	31.68	278	859857	8.30	ng		100
134) Benzo(g,h,i)perylene	32.41	276	1714757	16.75	ng		100

(#) = qualifier out of range (m) = manual integration
1C061121.D 1C611262.M Wed Jul 16 12:38:01 2003 TEST

Quantitation Report (QT Reviewed)

Data File : D:\BPARUCHU\DATA\1C061103\1C061122.D Vial: 22
Acq On : 12 Jun 2003 10:18 am Operator: BP
Sample : 0305007-21 @ Indiana Harbor Inst : GCMS1
Misc : WO # 0305007 11.9 g/20 mL/78.6%S PAHs Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 15 17:03 2003 Quant Results File: 1C611262.RES

Quant Method : D:\BPARUCHU\METHODS\1C611262.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002
Last Update : Wed Jun 25 13:39:39 2003
Response via : Continuing Cal File: D:\BPARUCHU\DATA\1C061103\1C061117.D
DataAcq Meth : 1C611262

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.80	150	3046784m	50.00	ng	-0.01
25) Naphthalene-d8	11.86	136	6840949	50.00	ng	0.00
44) Acenaphthene-d10	16.38	164	4502349	50.00	ng	0.02
71) Phenanthrene-d10	20.26	188	6472290	50.00	ng	0.03
105) Chrysene-d12	26.26	240	7084965	50.00	ng	0.03
125) Perylene-d12	29.03	264	4731032	50.00	ng	0.05

System Monitoring Compounds						
5) 2-Fluorophenol	6.13	112	152575m	3.62	ng	0.01
Spiked Amount 50.000	Range 25 - 90		Recovery = 7.24%#			
10) Phenol-d5	8.13	99	176173	3.41	ng	0.03
Spiked Amount 50.000	Range 38 - 103		Recovery = 6.82%#			
26) Nitrobenzene-d5	10.12	82	199746	4.01	ng	-0.02
Spiked Amount 50.000	Range 28 - 95		Recovery = 8.02%#			
49) 2-Fluorobiphenyl	14.66	172	501576	4.13	ng	0.00
Spiked Amount 50.000	Range 46 - 95		Recovery = 8.26%#			
75) 2,4,6-Tribromophenol	18.44	330	63471	5.03	ng	0.03
Spiked Amount 50.000	Range 47 - 146		Recovery = 10.06%#			
108) Terphenyl-d14	24.12	244	653490	4.94	ng	0.03
Spiked Amount 50.000	Range 50 - 144		Recovery = 9.88%#			

Target Compounds						Qvalue
104) Fluoranthene	23.24	202	1546603	8.01	ng	98
106) Pyrene	23.75	202	6252669	35.03	ng	98
121) Benz(a)anthracene	26.24	228	1518710	8.46	ng	94
124) Chrysene	26.31	228	3986704	25.86	ng	96
128) Benzo[b]fluoranthene	28.24	252	1135717m	7.19	ng	
134) Benzo(g,h,i)perylene	32.18	276	588066	5.66	ng	98

(#) = qualifier out of range (m) = manual integration
1C061122.D 1C611262.M Wed Jul 16 12:38:36 2003 TEST

Quantitation Report (QT Reviewed)

Data File : D:\BPARUCHU\DATA\1C061103\1C061123.D Vial: 23
Acq On : 12 Jun 2003 11:07 am Operator: BP
Sample : 0305007-22 @ Indiana Harbor Inst : GCMS1
Misc : WO # 0305007 4.26 g/20 mL/78.1%S PAHs Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 15 17:06 2003 Quant Results File: 1C611262.RES

Quant Method : D:\BPARUCHU\METHODS\1C611262.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002
Last Update : Wed Jun 25 13:39:39 2003
Response via : Continuing Cal File: D:\BPARUCHU\DATA\1C061103\1C061117.D
DataAcq Meth : 1C611262

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.81	150	3192080	50.00	ng	0.00
25) Naphthalene-d8	11.86	136	7254245	50.00	ng	0.00
44) Acenaphthene-d10	16.37	164	4783634	50.00	ng	0.00
71) Phenanthrene-d10	20.25	188	7835734	50.00	ng	0.02
105) Chrysene-d12	26.32	240	7807923	50.00	ng	0.09
125) Perylene-d12	29.14	264	5887928	50.00	ng	0.16

System Monitoring Compounds						
5) 2-Fluorophenol	6.15	112	230772m	5.22	ng	0.04
Spiked Amount 50.000	Range 25 - 90		Recovery = 10.44%#			
10) Phenol-d5	8.12	99	210843	3.89	ng	0.02
Spiked Amount 50.000	Range 38 - 103		Recovery = 7.78%#			
26) Nitrobenzene-d5	10.11	82	247518	4.68	ng	-0.02
Spiked Amount 50.000	Range 28 - 95		Recovery = 9.36%#			
49) 2-Fluorobiphenyl	14.66	172	587467	4.55	ng	0.00
Spiked Amount 50.000	Range 46 - 95		Recovery = 9.10%#			
75) 2,4,6-Tribromophenol	18.43	330	81269	5.32	ng	0.01
Spiked Amount 50.000	Range 47 - 146		Recovery = 10.64%#			
108) Terphenyl-d14	24.16	244	820714	5.63	ng	0.07
Spiked Amount 50.000	Range 50 - 144		Recovery = 11.26%#			

Target Compounds							Qvalue
106) Pyrene	23.76	202	3953491	20.10	ng		97
124) Chrysene	26.36	228	1844777	10.86	ng	#	90
128) Benzo[b]fluoranthene	28.33	252	1257041m	6.39	ng		

(#) = qualifier out of range (m) = manual integration
1C061123.D 1C611262.M Wed Jul 16 12:39:04 2003 TEST

Quantitation Report (QT Reviewed)

Data File : D:\BPARUCHU\DATA\1C061103\1C061124.D Vial: 24
Acq On : 12 Jun 2003 11:55 am Operator: BP
Sample : 0305007-23 @ Indiana Harbor Inst : GCMS1
Misc : WO # 0305007 5.08 g/20 mL/79.2%S PAHs Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 15 17:09 2003 Quant Results File: 1C611262.RES

Quant Method : D:\BPARUCHU\METHODS\1C611262.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002
Last Update : Wed Jun 25 13:39:39 2003
Response via : Continuing Cal File: D:\BPARUCHU\DATA\1C061103\1C061117.D
DataAcq Meth : 1C611262

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.80	150	3192116m	50.00	ng	-0.01
25) Naphthalene-d8	11.86	136	7144859	50.00	ng	0.00
44) Acenaphthene-d10	16.37	164	4217712	50.00	ng	0.01
71) Phenanthrene-d10	20.25	188	6776098	50.00	ng	0.02
105) Chrysene-d12	26.31	240	7090237	50.00	ng	0.07
125) Perylene-d12	29.08	264	4147951	50.00	ng	0.10

System Monitoring Compounds						
5) 2-Fluorophenol	6.14	112	144273m	3.27	ng	0.03
Spiked Amount 50.000	Range 25 - 90		Recovery = 6.54%#			
10) Phenol-d5	8.15	99	178986	3.30	ng	0.04
Spiked Amount 50.000	Range 38 - 103		Recovery = 6.60%#			
26) Nitrobenzene-d5	10.12	82	209095	4.02	ng	-0.02
Spiked Amount 50.000	Range 28 - 95		Recovery = 8.04%#			
49) 2-Fluorobiphenyl	14.66	172	471935	4.14	ng	0.00
Spiked Amount 50.000	Range 46 - 95		Recovery = 8.28%#			
75) 2,4,6-Tribromophenol	18.43	330	60237	4.56	ng	0.02
Spiked Amount 50.000	Range 47 - 146		Recovery = 9.12%#			
108) Terphenyl-d14	24.15	244	595834	4.50	ng	0.06
Spiked Amount 50.000	Range 50 - 144		Recovery = 9.00%#			

Target Compounds							Qvalue
104) Fluoranthene	23.26	202	4505774	22.29	ng		99
106) Pyrene	23.80	202	13589348	76.07	ng		98
121) Benz(a)anthracene	26.29	228	5343620	29.74	ng	#	80
124) Chrysene	26.37	228	9603683	62.26	ng	#	95
128) Benzo[b]fluoranthene	28.29	252	2228374m	16.09	ng		
130) Benzo(a)pyrene	28.85	252	3506978m	28.77	ng		
134) Benzo(g,h,i)perylene	32.28	276	670653	7.36	ng		99

(#) = qualifier out of range (m) = manual integration
1C061124.D 1C611262.M Wed Jul 16 12:39:43 2003 TEST

Quantitation Report (QT Reviewed)

Data File : D:\BPARUCHU\DATA\1C061103\1C061125.D Vial: 25
Acq On : 12 Jun 2003 12:44 pm Operator: BP
Sample : 0305007-24 @ Indiana Harbor Inst : GCMS1
Misc : WO # 0305007 9.07 g/20 mL/83.2%S PAHs Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 15 17:13 2003 Quant Results File: 1C611262.RES

Quant Method : D:\BPARUCHU\METHODS\1C611262.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002
Last Update : Wed Jun 25 13:39:39 2003
Response via : Continuing Cal File: D:\BPARUCHU\DATA\1C061103\1C061117.D
DataAcq Meth : 1C611262

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.80	150	3500497m	50.00	ng	-0.01
25) Naphthalene-d8	11.87	136	7893759	50.00	ng	0.00
44) Acenaphthene-d10	16.38	164	5050835	50.00	ng	0.02
71) Phenanthrene-d10	20.27	188	7464594	50.00	ng	0.05
105) Chrysene-d12	26.36	240	5686605	50.00	ng	0.12
125) Perylene-d12	29.15	264	4250409	50.00	ng	0.17
System Monitoring Compounds						
5) 2-Fluorophenol	6.14	112	159738m	3.30	ng	0.03
Spiked Amount 50.000	Range 25 - 90		Recovery = 6.60%#			
10) Phenol-d5	8.14	99	196951	3.32	ng	0.04
Spiked Amount 50.000	Range 38 - 103		Recovery = 6.64%#			
26) Nitrobenzene-d5	10.12	82	221359	3.85	ng	-0.02
Spiked Amount 50.000	Range 28 - 95		Recovery = 7.70%#			
49) 2-Fluorobiphenyl	14.66	172	602469	4.42	ng	0.00
Spiked Amount 50.000	Range 46 - 95		Recovery = 8.84%#			
75) 2,4,6-Tribromophenol	18.45	330	70608	4.85	ng	0.04
Spiked Amount 50.000	Range 47 - 146		Recovery = 9.70%#			
108) Terphenyl-d14	24.19	244	734615	6.92	ng	0.10
Spiked Amount 50.000	Range 50 - 144		Recovery = 13.84%#			

Target Compounds						Qvalue
104) Fluoranthene	23.31	202	5445823	24.46	ng	98
106) Pyrene	23.84	202	15379625	~~107.35~~	~~ng~~ #	92
121) Benz(a)anthracene	26.37	228	3863196m	26.81	ng	
124) Chrysene	26.42	228	8438212m	68.20	ng	
128) Benzo[b]fluoranthene	28.36	252	2920289m	20.58	ng	
130) Benzo(a)pyrene	28.91	252	4664182m	37.34	ng	
132) Indeno[1,2,3,cd]pyrene	31.62	276	689900	5.81	ng	98
133) Dibenz(a,h)anthracene	31.63	278	493356	5.22	ng	96
134) Benzo(g,h,i)perylene	32.35	276	910313	9.75	ng	99

(#) = qualifier out of range (m) = manual integration
1C061125.D 1C611262.M Wed Jul 16 12:40:10 2003 TEST

Quantitation Report (QT Reviewed)

Data File : D:\BPARUCHU\DATA\1C061103\1C061126.D Vial: 26
Acq On : 12 Jun 2003 1:33 pm Operator: BP
Sample : 0305007-18 @ Indiana Harbor Inst : GCMS1
Misc : WO # 0305007 12.0 g/40 mL/89.8%S PAHs Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 15 17:16 2003 Quant Results File: 1C611262.RES

Quant Method : D:\BPARUCHU\METHODS\1C611262.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002
Last Update : Wed Jun 25 13:39:39 2003
Response via : Continuing Cal File: D:\BPARUCHU\DATA\1C061103\1C061117.D
DataAcq Meth : 1C611262

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.81	150	2898402	50.00	ng	0.00
25) Naphthalene-d8	11.87	136	6827192	50.00	ng	0.00
44) Acenaphthene-d10	16.37	164	4931381	50.00	ng	0.00
71) Phenanthrene-d10	20.25	188	7613128	50.00	ng	0.02
105) Chrysene-d12	26.30	240	7691587	50.00	ng	0.06
125) Perylene-d12	29.08	264	4796649	50.00	ng	0.10
System Monitoring Compounds						
5) 2-Fluorophenol	6.13	112	38485	0.96	ng	0.01
Spiked Amount 50.000	Range 25 - 90		Recovery = 1.92%#			
10) Phenol-d5	8.13	99	69930	1.42	ng	0.03
Spiked Amount 50.000	Range 38 - 103		Recovery = 2.84%#			
26) Nitrobenzene-d5	10.12	82	92998	1.87	ng	-0.02
Spiked Amount 50.000	Range 28 - 95		Recovery = 3.74%#			
49) 2-Fluorobiphenyl	14.66	172	257954	1.94	ng	0.00
Spiked Amount 50.000	Range 46 - 95		Recovery = 3.88%#			
75) 2,4,6-Tribromophenol	18.43	330	37088	2.50	ng	0.02
Spiked Amount 50.000	Range 47 - 146		Recovery = 5.00%#			
108) Terphenyl-d14	24.14	244	345589	2.41	ng	0.05
Spiked Amount 50.000	Range 50 - 144		Recovery = 4.82%#			
Target Compounds						Qvalue
91) Phenanthrene	20.29	178	1377064	8.15	ng	97
104) Fluoranthene	23.26	202	3663305	16.13	ng	99
106) Pyrene	23.78	202	11656966-	60.15	ng	98
121) Benz(a)anthracene	26.28	228	3788147	19.44	ng #	79
124) Chrysene	26.36	228	8378312	50.07	ng #	91
128) Benzo[b]fluoranthene	28.28	252	2051378m	12.81	ng	
130) Benzo(a)pyrene	28.84	252	3397672m	24.10	ng	
134) Benzo(g,h,i)perylene	32.26	276	954526	9.06	ng	100

(#) = qualifier out of range (m) = manual integration
1C061126.D 1C611262.M Wed Jul 16 12:42:28 2003 TEST

Quantitation Report (QT Reviewed)

Data File : D:\BPARUCHU\DATA\1C061103\1C061127.D Vial: 27
Acq On : 12 Jun 2003 2:20 pm Operator: BP
Sample : 0305007-20 @ Indiana Harbor Inst : GCMS1
Misc : WO # 0305007 9.77 g/80 mL/78.1%S PAHs Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 15 17:20 2003 Quant Results File: 1C611262.RES

Quant Method : D:\BPARUCHU\METHODS\1C611262.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002
Last Update : Wed Jun 25 13:39:39 2003
Response via : Continuing Cal File: D:\BPARUCHU\DATA\1C061103\1C061117.D
DataAcq Meth : 1C611262

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.81	150	2944696	50.00	ng	0.00
25) Naphthalene-d8	11.87	136	7275761	50.00	ng	0.00
44) Acenaphthene-d10	16.38	164	4905616	50.00	ng	0.01
71) Phenanthrene-d10	20.25	188	7559749	50.00	ng	0.02
105) Chrysene-d12	26.29	240	8336231	50.00	ng	0.05
125) Perylene-d12	29.06	264	5593905	50.00	ng	0.08

System Monitoring Compounds						
5) 2-Fluorophenol	6.12	112	31541	0.77	ng	0.00
Spiked Amount 50.000	Range 25 - 90		Recovery = 1.54%#			
10) Phenol-d5	8.13	99	32593	0.65	ng	0.02
Spiked Amount 50.000	Range 38 - 103		Recovery = 1.30%#			
26) Nitrobenzene-d5	10.12	82	56895	1.07	ng	-0.02
Spiked Amount 50.000	Range 28 - 95		Recovery = 2.14%#			
49) 2-Fluorobiphenyl	14.66	172	141593	1.07	ng	0.00
Spiked Amount 50.000	Range 46 - 95		Recovery = 2.14%#			
75) 2,4,6-Tribromophenol	18.43	330	17959	1.22	ng	0.02
Spiked Amount 50.000	Range 47 - 146		Recovery = 2.44%#			
108) Terphenyl-d14	24.13	244	201261	1.29	ng	0.04
Spiked Amount 50.000	Range 50 - 144		Recovery = 2.58%#			

Target Compounds						Qvalue
104) Fluoranthene	23.24	202	2789136	12.37	ng	99
106) Pyrene	23.76	202	9021187	42.95	ng ✓	99
121) Benz(a)anthracene	26.26	228	3256057	15.41	ng ✓	97
124) Chrysene	26.34	228	7361754m	40.59	ng ✓	
128) Benzo[b]fluoranthene	28.26	252	1417539m	7.59	ng	
130) Benzo(a)pyrene	28.81	252	2630878m	16.00	ng	
134) Benzo(g,h,i)perylene	32.23	276	706117	5.74	ng	98

(#) = qualifier out of range (m) = manual integration
1C061127.D 1C611262.M Wed Jul 16 12:41:32 2003 TEST

Quantitation Report (QT Reviewed)

Data File : D:\BPARUCHU\DATA\1C061103\1C061128.D Vial: 28
Acq On : 12 Jun 2003 3:08 pm Operator: BP
Sample : 0305007-24 @ Indiana Harbor Inst : GCMS1
Misc : WO # 0305007 9.07 g/40 mL/83.2%S PAHs Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 15 17:22 2003 Quant Results File: 1C611262.RES

Quant Method : D:\BPARUCHU\METHODS\1C611262.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002
Last Update : Wed Jun 25 13:39:39 2003
Response via : Continuing Cal File: D:\BPARUCHU\DATA\1C061103\1C061117.D
DataAcq Meth : 1C611262

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.80	150	3196739	50.00	ng	0.00
25) Naphthalene-d8	11.86	136	7397178	50.00	ng	0.00
44) Acenaphthene-d10	16.37	164	5225603	50.00	ng	0.00
71) Phenanthrene-d10	20.25	188	8101685	50.00	ng	0.02
105) Chrysene-d12	26.31	240	8099962	50.00	ng	0.07
125) Perylene-d12	29.09	264	5218442	50.00	ng	0.11

System Monitoring Compounds						
5) 2-Fluorophenol	6.13	112	57620	1.30	ng	0.02
Spiked Amount 50.000	Range 25 - 90		Recovery = 2.60%#			
10) Phenol-d5	8.13	99	75894	1.40	ng	0.03
Spiked Amount 50.000	Range 38 - 103		Recovery = 2.80%#			
26) Nitrobenzene-d5	10.12	82	105621	1.96	ng	-0.01
Spiked Amount 50.000	Range 28 - 95		Recovery = 3.92%#			
49) 2-Fluorobiphenyl	14.66	172	296520	2.10	ng	0.00
Spiked Amount 50.000	Range 46 - 95		Recovery = 4.20%#			
75) 2,4,6-Tribromophenol	18.43	330	39873	2.52	ng	0.02
Spiked Amount 50.000	Range 47 - 146		Recovery = 5.04%#			
108) Terphenyl-d14	24.15	244	367247	2.43	ng	0.06
Spiked Amount 50.000	Range 50 - 144		Recovery = 4.86%#			

Target Compounds						Qvalue
104) Fluoranthene	23.26	202	3126815	12.94	ng	98
106) Pyrene	23.78	202	10200121	49.98	ng	99
121) Benz(a)anthracene	26.29	228	3165554	15.42	ng	97
124) Chrysene	26.36	228	7077674m	40.16	ng	
128) Benzo[b]fluoranthene	28.30	252	1966760m	11.29	ng	
130) Benzo(a)pyrene	28.85	252	3253449m	21.22	ng	
134) Benzo(g,h,i)perylene	32.28	276	730490	6.37	ng	99

(#) = qualifier out of range (m) = manual integration
1C061128.D 1C611262.M Wed Jul 16 12:52:26 2003 TEST

Quantitation Report (QT Reviewed)

Data File : D:\BPARUCHU\DATA\1C061203\1C061203.D Vial: 3
Acq On : 12 Jun 2003 6:52 pm Operator: BP
Sample : 0305007-25 @ INDIANA HARBOR Inst : GCMS1
Misc : WO # 0305007 11.4 g/20mL/85%S PAHs 5/2 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 15 12:40 2003 Quant Results File: 1C612261.RES

Quant Method : D:\BPARUCHU\METHODS\1C612261.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002
Last Update : Tue Jul 15 11:47:50 2003
Response via : Continuing Cal File: D:\BPARUCHU\DATA\1C061203\1C061202.D
DataAcq Meth : 1C612261

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.80	150	2903056	50.00	ng	0.00
25) Naphthalene-d8	11.86	136	6650105	50.00	ng	-0.01
44) Acenaphthene-d10	16.36	164	4205475	50.00	ng	0.00
71) Phenanthrene-d10	20.22	188	6626313	50.00	ng	0.00
105) Chrysene-d12	26.25	240	6051524	50.00	ng	0.01
125) Perylene-d12	29.02	264	4247069	50.00	ng	0.04

System Monitoring Compounds						
5) 2-Fluorophenol	6.12	112	196136m	4.84	ng	0.01
Spiked Amount 50.000	Range 25 - 90		Recovery = 9.68%#			
10) Phenol-d5	8.12	99	220739	4.36	ng	0.02
Spiked Amount 50.000	Range 38 - 103		Recovery = 8.72%#			
26) Nitrobenzene-d5	10.11	82	269148	5.49	ng	-0.02
Spiked Amount 50.000	Range 28 - 95		Recovery = 10.98%#			
49) 2-Fluorobiphenyl	14.65	172	556213	5.65	ng	-0.01
Spiked Amount 50.000	Range 46 - 95		Recovery = 11.30%#			
75) 2,4,6-Tribromophenol	18.41	330	68828	5.33	ng	0.00
Spiked Amount 50.000	Range 47 - 146		Recovery = 10.66%#			
108) Terphenyl-d14	24.10	244	739058	6.65	ng	0.00
Spiked Amount 50.000	Range 50 - 144		Recovery = 13.30%#			

Target Compounds						Qvalue
106) Pyrene	23.71	202	4029902	25.19	ng	99
124) Chrysene	26.29	228	2407121	18.55	ng	95
128) Benzo[b]fluoranthene	28.22	252	965267m	6.75	ng	

(#) = qualifier out of range (m) = manual integration
1C061203.D 1C612261.M Wed Jul 16 12:50:06 2003 TEST

Quantitation Report (QT Reviewed)

Data File : D:\BPARUCHU\DATA\1C061203\1C061204.D Vial: 4
Acq On : 12 Jun 2003 7:39 pm Operator: BP
Sample : B305030-MS1 @ INDIANA HARBOR Inst : GCMS1
Misc : WO # 0305007 11.7 g/20mL/85%S PAHs 5/2 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 15 12:43 2003 Quant Results File: 1C612261.RES

Quant Method : D:\BPARUCHU\METHODS\1C612261.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002
Last Update : Tue Jul 15 11:47:50 2003
Response via : Continuing Cal File: D:\BPARUCHU\DATA\1C061203\1C061202.D
DataAcq Meth : 1C612261

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.80	150	2520156	50.00	ng	0.00
25) Naphthalene-d8	11.86	136	5962742	50.00	ng	-0.01
44) Acenaphthene-d10	16.36	164	3767492	50.00	ng	0.00
71) Phenanthrene-d10	20.22	188	5975305	50.00	ng	0.00
105) Chrysene-d12	26.25	240	5125234	50.00	ng	0.01
125) Perylene-d12	29.01	264	3635921	50.00	ng	0.04

System Monitoring Compounds						
5) 2-Fluorophenol	6.12	112	111628	3.18	ng	0.02
Spiked Amount 50.000	Range 25 - 90		Recovery = 6.36%#			
10) Phenol-d5	8.11	99	221972	5.06	ng	0.00
Spiked Amount 50.000	Range 38 - 103		Recovery = 10.12%#			
26) Nitrobenzene-d5	10.11	82	226965	5.16	ng	-0.02
Spiked Amount 50.000	Range 28 - 95		Recovery = 10.32%#			
49) 2-Fluorobiphenyl	14.66	172	485480	5.50	ng	0.00
Spiked Amount 50.000	Range 46 - 95		Recovery = 11.00%#			
75) 2,4,6-Tribromophenol	18.41	330	62919	5.41	ng	0.00
Spiked Amount 50.000	Range 47 - 146		Recovery = 10.82%#			
108) Terphenyl-d14	24.10	244	631183	6.70	ng	0.00
Spiked Amount 50.000	Range 50 - 144		Recovery = 13.40%#			

Target Compounds						Qvalue
12) Bis(2-chloroethyl)ether	8.26	93	213676	5.09	ng	99
18) bis(2-Chloroisopropyl)ethe	9.50	121	75940	5.24	ng	88
20) Acetophenone	9.77	105	295113	5.42	ng	97
23) N-Nitroso-di-n-propylamine	9.81	70	150392	5.19	ng	98
24) 3-&/or 4-Methylphenol	9.87	107	492293	8.31	ng	95
32) o,o,o-Triethylphosphorothi	11.29	198	115254	5.06	ng	95
36) Naphthalene	11.90	128	638850	5.26	ng	99
39) Hexachlorobutadiene	12.25	225	113563	5.16	ng	99
42) Safrole	13.50	162	171775	5.18	ng	97
54) Dimethylphthalate	15.75	163	519985	5.27	ng	99
57) Acenaphthylene	15.97	152	684385	5.11	ng	99
59) Acenaphthene	16.43	153	460023	5.47	ng	98
61) Pentachlorobenzene	16.78	250	186099	5.35	ng	99
62) Dibenzofuran	16.88	168	631573	5.38	ng	99
65) Diethylphthalate	17.60	149	538512	5.41	ng	100
66) Fluorene	17.77	166	549980	5.62	ng	99
67) 4-Chlorophenylphenyl ether	17.83	204	261756	5.44	ng #	73
68) Thionazin	17.79	97	162038	7.00	ng	80
73) Diphenylamine	18.14	169	559534	6.63	ng	89
74) Azobenzene	18.23	77	534844	5.28	ng #	84
76) Sulfotep	18.64	322	95961	5.69	ng #	79
77) Phorate	18.94	260	45566	5.45	ng	94
78) Diallate	19.15	86	186445	5.34	ng	91
79) 4-Bromophenyl phenyl ether	19.09	248	138303	5.55	ng	96

80)	Alpha-BHC	19.10	181	97499	5.16	ng	#	15
83)	Hexachlorobenzene	19.21	284	147839	5.46	ng		100
84)	Dimethoate	19.37	87	201992	5.25	ng		90
85)	Beta-BHC	19.88	181	85733	5.35	ng		79
86)	Pentachloronitrobenzene	19.78	295	26651	5.48	ng		98
88)	Pentachlorophenol	19.77	266	70598	5.21	ng		95
89)	Delta-BHC	19.88	181	85733	5.36	ng		89
90)	Pronamide	20.00	173	237612	5.38	ng		92
91)	Phenanthrene	20.27	178	844575	6.30	ng		96
94)	Anthracene	20.40	178	852583m	6.00	ng		
95)	Gamma-BHC	20.56	181	109053	7.14	ng	#	73
96)	Carbazole	20.86	167	695636	5.70	ng		98
97)	Methyl Parathion	21.26	263	105090	5.29	ng		96
99)	Di-n-butylphthalate	21.85	149	996347	5.97	ng		97
100)	Aldrin	22.25	263	58946	5.21	ng		94
101)	Ethyl Parathion	22.25	291	88761	5.38	ng		94
102)	Isodrin	22.84	193	91721	5.51	ng	#	74
104)	Fluoranthene	23.20	202	1392804	9.07	ng		99
106)	Pyrene	23.72	202	4787159	35.33	ng		99
107)	p,p'-DDE	23.99	246	199011	6.61	ng		91
109)	Dieldrin	24.16	79	151026	6.49	ng		92
110)	p-Dimethylaminoazobenzene	24.41	225	167885	5.35	ng		93
111)	Chlorobenzilate	24.52	251	268678	6.34	ng		96
112)	Endrin	24.53	263	25722	5.03	ng		82
113)	p,p'-DDD	24.71	235	339482	6.46	ng		97
114)	Endrin Aldehyde	24.40	67	15170	36.51	ng	#	100
115)	Famphur	25.02	218	289273	23.15	ng		91
116)	Butylbenzylphthalate	25.16	149	454742	6.70	ng		97
118)	2-Acetylaminofluorene	25.64	181	327322	6.16	ng		98
121)	Benz(a)anthracene	26.22	228	1494626	11.91	ng		92
123)	Bis(2-ethylhexyl)phthalate	26.30	149	646025	6.70	ng		99
124)	Chrysene	26.29	228	2880470	26.21	ng		95
126)	Di-n-octylphthalate	27.46	149	1093691	6.42	ng		97
128)	Benzo[b]fluoranthene	28.22	252	1746214	14.26	ng		94
129)	Benzo(k)fluoranthene	28.27	252	813692m	7.04	ng		
130)	Benzo(a)pyrene	28.77	252	1644869m	15.01	ng		
131)	3-Methylcholanthrene	29.60	268	342028	6.88	ng		99
132)	Indeno[1,2,3,cd]pyrene	31.47	276	905250	9.69	ng		98
133)	Dibenz(a,h)anthracene	31.48	278	699194	9.28	ng		99
134)	Benzo(g,h,i)perylene	32.19	276	770111	10.42	ng		99

(#) = qualifier out of range (m) = manual integration
1C061204.D 1C612261.M Wed Jul 16 12:46:51 2003 TEST

Quantitation Report (QT Reviewed)

Data File : D:\BPARUCHU\DATA\1C061203\1C061205.D Vial: 5
Acq On : 12 Jun 2003 8:25 pm Operator: BP
Sample : B305030-MSD1 @ INDIANA HARBOR Inst : GCMS1
Misc : WO # 0305007 11.7 g/20mL/85%S PAHs 5/2 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 15 12:48 2003 Quant Results File: 1C612261.RES

Quant Method : D:\BPARUCHU\METHODS\1C612261.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002
Last Update : Tue Jul 15 11:47:50 2003
Response via : Continuing Cal File: D:\BPARUCHU\DATA\1C061203\1C061202.D
DataAcq Meth : 1C612261

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.80	150	3038148m	50.00	ng	0.00
25) Naphthalene-d8	11.86	136	6871483	50.00	ng	0.00
44) Acenaphthene-d10	16.37	164	4253425	50.00	ng	0.00
71) Phenanthrene-d10	20.23	188	6594863	50.00	ng	0.00
105) Chrysene-d12	26.26	240	5810010	50.00	ng	0.02
125) Perylene-d12	29.03	264	3859526	50.00	ng	0.05
System Monitoring Compounds						
5) 2-Fluorophenol	6.13	112	165704m	3.91	ng	0.02
Spiked Amount 50.000	Range 25 - 90		Recovery = 7.82%#			
10) Phenol-d5	8.11	99	224288	4.24	ng	0.01
Spiked Amount 50.000	Range 38 - 103		Recovery = 8.48%#			
26) Nitrobenzene-d5	10.11	82	223311	4.40	ng	-0.02
Spiked Amount 50.000	Range 28 - 95		Recovery = 8.80%#			
49) 2-Fluorobiphenyl	14.65	172	481522	4.84	ng	0.00
Spiked Amount 50.000	Range 46 - 95		Recovery = 9.68%#			
75) 2,4,6-Tribromophenol	18.42	330	61409	4.78	ng	0.00
Spiked Amount 50.000	Range 47 - 146		Recovery = 9.56%#			
108) Terphenyl-d14	24.11	244	610957	5.72	ng	0.01
Spiked Amount 50.000	Range 50 - 144		Recovery = 11.44%#			

Target Compounds							Qvalue
24) 3-&/or 4-Methylphenol	9.88	107	509618	7.14	ng		96
66) Fluorene	17.78	166	554251	5.02	ng		99
68) Thionazin	17.80	97	164306	6.29	ng		79
73) Diphenylamine	18.14	169	572469	6.15	ng		86
76) Sulfotep	18.64	322	95416	5.13	ng	#	75
77) Phorate	18.94	260	46214	5.01	ng		91
79) 4-Bromophenyl phenyl ether	19.10	248	140032	5.09	ng		96
85) Beta-BHC	19.88	181	90917	5.14	ng		76
89) Delta-BHC	19.88	181	90917	5.15	ng		89
91) Phenanthrene	20.28	178	804241	5.44	ng		96
94) Anthracene	20.40	178	873294m	5.57	ng		
95) Gamma-BHC	20.56	181	117494	6.97	ng	#	70
96) Carbazole	20.87	167	686081	5.10	ng	#	92
99) Di-n-butylphthalate	21.85	149	985508	5.35	ng	#	95
104) Fluoranthene	23.21	202	1398942	8.25	ng		99
106) Pyrene	23.73	202	5173828	33.68	ng		99
107) p,p'-DDE	24.00	246	206608	6.05	ng		89
109) Dieldrin	24.16	79	135177	5.12	ng		93
111) Chlorobenzilate	24.53	251	260517	5.42	ng		96
113) p,p'-DDD	24.72	235	339665	5.70	ng		98
114) Endrin Aldehyde	24.39	67	11386	24.18	ng	#	100
115) Famphur	25.03	218	295129	20.83	ng		92
116) Butylbenzylphthalate	25.17	149	461262	6.00	ng		100
121) Benz(a)anthracene	26.23	228	1560318	10.97	ng		92

123)	Bis(2-ethylhexyl)phthalate	26.30	149	642216	5.87	ng	98
124)	Chrysene	26.30	228	3036169	24.37	ng	96
126)	Di-n-octylphthalate	27.46	149	1042103	5.76	ng	97
128)	Benzo[b]fluoranthene	28.23	252	1679799m	12.92	ng	
129)	Benzo(k)fluoranthene	28.26	252	821120m	6.70	ng	
130)	Benzo(a)pyrene	28.78	252	1657639m	14.25	ng	
131)	3-Methylcholanthrene	29.60	268	313655	5.95	ng	100
132)	Indeno[1,2,3,cd]pyrene	31.47	276	838713	8.46	ng	98
133)	Dibenz(a,h)anthracene	31.49	278	631688	7.90	ng	98
134)	Benzo(g,h,i)perylene	32.19	276	748838	9.55	ng	99

(#) = qualifier out of range (m) = manual integration
1C061205.D 1C612261.M Wed Jul 16 12:47:16 2003 TEST

Quantitation Report (QT Reviewed)

Data File : D:\BPARUCHU\DATA\1C061203\1C061206.D Vial: 6
Acq On : 12 Jun 2003 9:12 pm Operator: BP
Sample : 0305007-26 @ INDIANA HARBOR Inst : GCMS1
Misc : WO # 0305007 4.00 g/20mL/78.8%S PAHs 5/ Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 15 12:50 2003 Quant Results File: 1C612261.RES

Quant Method : D:\BPARUCHU\METHODS\1C612261.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002
Last Update : Tue Jul 15 11:47:50 2003
Response via : Continuing Cal File: D:\BPARUCHU\DATA\1C061203\1C061202.D
DataAcq Meth : 1C612261

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.80	150	2983570	50.00	ng	0.00
25) Naphthalene-d8	11.86	136	6754332	50.00	ng	-0.01
44) Acenaphthene-d10	16.37	164	4237276	50.00	ng	0.00
71) Phenanthrene-d10	20.24	188	6511331	50.00	ng	0.01
105) Chrysene-d12	26.28	240	6136327	50.00	ng	0.04
125) Perylene-d12	29.05	264	3971032	50.00	ng	0.08

System Monitoring Compounds						
5) 2-Fluorophenol	6.14	112	156235m	3.75	ng	0.03
Spiked Amount 50.000	Range 25 - 90		Recovery = 7.50%#			
10) Phenol-d5	8.13	99	170272	3.28	ng	0.03
Spiked Amount 50.000	Range 38 - 103		Recovery = 6.56%#			
26) Nitrobenzene-d5	10.11	82	211781	4.25	ng	-0.02
Spiked Amount 50.000	Range 28 - 95		Recovery = 8.50%#			
49) 2-Fluorobiphenyl	14.66	172	450770	4.54	ng	0.00
Spiked Amount 50.000	Range 46 - 95		Recovery = 9.08%#			
75) 2,4,6-Tribromophenol	18.42	330	53186	4.19	ng	0.00
Spiked Amount 50.000	Range 47 - 146		Recovery = 8.38%#			
108) Terphenyl-d14	24.12	244	510917	4.53	ng	0.03
Spiked Amount 50.000	Range 50 - 144		Recovery = 9.06%#			

Target Compounds						Qvalue
104) Fluoranthene	23.23	202	1832020	10.95	ng	99
106) Pyrene	23.74	202	5442800	33.55	ng	99
121) Benz(a)anthracene	26.26	228	1616304	10.75	ng	96
124) Chrysene	26.33	228	3521684	26.76	ng	95
128) Benzo[b]fluoranthene	28.25	252	981548m	7.34	ng	
130) Benzo(a)pyrene	28.80	252	1464385	12.23	ng	93
134) Benzo(g,h,i)perylene	32.22	276	406918	5.04	ng	97

(#) = qualifier out of range (m) = manual integration
1C061206.D 1C612261.M Wed Jul 16 12:49:07 2003 TEST

Quantitation Report (QT Reviewed)

Data File : D:\BPARUCHU\DATA\1C061203\1C061207.D Vial: 7
Acq On : 12 Jun 2003 9:59 pm Operator: BP
Sample : 0305007-27 @ INDIANA HARBOR Inst : GCMS1
Misc : WO 0305007 12.1 g/20mL /86.1%S PAHs 5/2 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 15 12:52 2003 Quant Results File: 1C612261.RES

Quant Method : D:\BPARUCHU\METHODS\1C612261.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002
Last Update : Tue Jul 15 11:47:50 2003
Response via : Continuing Cal File: D:\BPARUCHU\DATA\1C061203\1C061202.D
DataAcq Meth : 1C612261

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.80	150	3012209m	50.00	ng	0.00
25) Naphthalene-d8	11.87	136	6970132	50.00	ng	0.00
44) Acenaphthene-d10	16.37	164	4233030	50.00	ng	0.00
71) Phenanthrene-d10	20.23	188	6686979	50.00	ng	0.00
105) Chrysene-d12	26.27	240	5880530	50.00	ng	0.04
125) Perylene-d12	29.04	264	3419395	50.00	ng	0.07
System Monitoring Compounds						
5) 2-Fluorophenol	6.15	112	159938m	3.81	ng	0.04
Spiked Amount 50.000	Range 25 - 90		Recovery	=	7.62%#	
10) Phenol-d5	8.14	99	178222	3.40	ng	0.04
Spiked Amount 50.000	Range 38 - 103		Recovery	=	6.80%#	
26) Nitrobenzene-d5	10.12	82	218010	4.24	ng	-0.01
Spiked Amount 50.000	Range 28 - 95		Recovery	=	8.48%#	
49) 2-Fluorobiphenyl	14.66	172	488318	4.93	ng	0.00
Spiked Amount 50.000	Range 46 - 95		Recovery	=	9.86%#	
75) 2,4,6-Tribromophenol	18.42	330	59228	4.55	ng	0.00
Spiked Amount 50.000	Range 47 - 146		Recovery	=	9.10%#	
108) Terphenyl-d14	24.12	244	572282	5.30	ng	0.03
Spiked Amount 50.000	Range 50 - 144		Recovery	=	10.60%#	
Target Compounds						Qvalue
104) Fluoranthene	23.22	202	1513326	8.80	ng	99
106) Pyrene	23.74	202	6720210	43.22	ng	98
121) Benz(a)anthracene	26.25	228	1724219m	11.97	ng	
124) Chrysene	26.32	228	4252065	33.72	ng	94
128) Benzo[b]fluoranthene	28.25	252	1188521m	10.32	ng	
130) Benzo(a)pyrene	28.80	252	1974697	19.16	ng	93
134) Benzo(g,h,i)perylene	32.21	276	442982	6.38	ng	98

(#) = qualifier out of range (m) = manual integration
1C061207.D 1C612261.M Wed Jul 16 12:48:19 2003 TEST

Quantitation Report (QT Reviewed)

Data File : D:\BPARUCHU\DATA\1C061203\1C061208.D Vial: 8
Acq On : 12 Jun 2003 10:45 pm Operator: BP
Sample : 0305007-28 @ INDIANA HARBOR Inst : GCMS1
Misc : WO 0305007 4.15 g/20mL/85.4%S PAHs 5/2 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 15 12:54 2003 Quant Results File: 1C612261.RES

Quant Method : D:\BPARUCHU\METHODS\1C612261.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002
Last Update : Tue Jul 15 11:47:50 2003
Response via : Continuing Cal File: D:\BPARUCHU\DATA\1C061203\1C061202.D
DataAcq Meth : 1C612261

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.80	150	3072426m	50.00	ng	0.00
25) Naphthalene-d8	11.86	136	6940558	50.00	ng	0.00
44) Acenaphthene-d10	16.37	164	4433217	50.00	ng	0.00
71) Phenanthrene-d10	20.24	188	6658848	50.00	ng	0.01
105) Chrysene-d12	26.28	240	6280978	50.00	ng	0.05
125) Perylene-d12	29.05	264	3555827	50.00	ng	0.08
System Monitoring Compounds						
5) 2-Fluorophenol	6.12	112	156513m	3.65	ng	0.01
Spiked Amount 50.000	Range 25 - 90		Recovery = 7.30%#			
10) Phenol-d5	8.13	99	173798	3.25	ng	0.02
Spiked Amount 50.000	Range 38 - 103		Recovery = 6.50%#			
26) Nitrobenzene-d5	10.11	82	215114	4.20	ng	-0.02
Spiked Amount 50.000	Range 28 - 95		Recovery = 8.40%#			
49) 2-Fluorobiphenyl	14.65	172	476925	4.59	ng	0.00
Spiked Amount 50.000	Range 46 - 95		Recovery = 9.18%#			
75) 2,4,6-Tribromophenol	18.42	330	59410	4.58	ng	0.00
Spiked Amount 50.000	Range 47 - 146		Recovery = 9.16%#			
108) Terphenyl-d14	24.13	244	529284	4.59	ng	0.03
Spiked Amount 50.000	Range 50 - 144		Recovery = 9.18%#			
Target Compounds						Qvalue
104) Fluoranthene	23.23	202	1587788	9.28	ng	99
106) Pyrene	23.74	202	4994421	30.08	ng	98
121) Benz(a)anthracene	26.26	228	1254081	8.15	ng	94
124) Chrysene	26.32	228	3035826	22.54	ng	96
128) Benzo[b]fluoranthene	28.26	252	846645m	7.07	ng	
130) Benzo(a)pyrene	28.81	252	1206940	11.26	ng	92

(#) = qualifier out of range (m) = manual integration
1C061208.D 1C612261.M Wed Jul 16 12:53:41 2003 TEST

Quantitation Report (QT Reviewed)

Data File : D:\BPARUCHU\DATA\1C061203\1C061209.D Vial: 9
Acq On : 12 Jun 2003 11:32 pm Operator: BP
Sample : 0305007-29 @ INDIANA HARBOR Inst : GCMS1
Misc : WO 0305007 4.40 g/20mL/79.3%S PAHs 5 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 15 12:56 2003 Quant Results File: 1C612261.RES

Quant Method : D:\BPARUCHU\METHODS\1C612261.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002
Last Update : Tue Jul 15 11:47:50 2003
Response via : Continuing Cal File: D:\BPARUCHU\DATA\1C061203\1C061202.D
DataAcq Meth : 1C612261

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.80	150	3131332	50.00	ng	0.00
25) Naphthalene-d8	11.86	136	7047005	50.00	ng	0.00
44) Acenaphthene-d10	16.36	164	4500360	50.00	ng	0.00
71) Phenanthrene-d10	20.22	188	7312205	50.00	ng	0.00
105) Chrysene-d12	26.25	240	6621901	50.00	ng	0.01
125) Perylene-d12	29.01	264	4313944	50.00	ng	0.03

System Monitoring Compounds						
5) 2-Fluorophenol	6.12	112	147272m	3.37	ng	0.01
Spiked Amount 50.000	Range 25 - 90		Recovery = 6.74%#			
10) Phenol-d5	8.12	99	168679	3.09	ng	0.02
Spiked Amount 50.000	Range 38 - 103		Recovery = 6.18%#			
26) Nitrobenzene-d5	10.11	82	212731	4.09	ng	-0.02
Spiked Amount 50.000	Range 28 - 95		Recovery = 8.18%#			
49) 2-Fluorobiphenyl	14.66	172	448146	4.25	ng	0.00
Spiked Amount 50.000	Range 46 - 95		Recovery = 8.50%#			
75) 2,4,6-Tribromophenol	18.41	330	61186	4.30	ng	0.00
Spiked Amount 50.000	Range 47 - 146		Recovery = 8.60%#			
108) Terphenyl-d14	24.10	244	734235	6.04	ng	0.00
Spiked Amount 50.000	Range 50 - 144		Recovery = 12.08%#			

Target Compounds						Qvalue
106) Pyrene	23.71	202	3039166	17.36	ng	98
124) Chrysene	26.28	228	1930478	13.59	ng	97

(#) = qualifier out of range (m) = manual integration
1C061209.D 1C612261.M Wed Jul 16 12:54:31 2003 TEST

Quantitation Report (QT Reviewed)

Data File : D:\BPARUCHU\DATA\1C061203\1C061210.D Vial: 10
Acq On : 13 Jun 2003 12:19 am Operator: BP
Sample : 0305007-30 @ INDIANA HARBOR Inst : GCMS1
Misc : WO 0305007 5.08 g/20mL/86.1%S PAHs 5/ Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 15 12:58 2003 Quant Results File: 1C612261.RES

Quant Method : D:\BPARUCHU\METHODS\1C612261.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002
Last Update : Tue Jul 15 11:47:50 2003
Response via : Continuing Cal File: D:\BPARUCHU\DATA\1C061203\1C061202.D
DataAcq Meth : 1C612261

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.80	150	3041672	50.00	ng	0.00
25) Naphthalene-d8	11.86	136	6833872	50.00	ng	-0.01
44) Acenaphthene-d10	16.37	164	4342374	50.00	ng	0.00
71) Phenanthrene-d10	20.23	188	6695358	50.00	ng	0.00
105) Chrysene-d12	26.28	240	6115562	50.00	ng	0.04
125) Perylene-d12	29.06	264	3816032	50.00	ng	0.09
System Monitoring Compounds						
5) 2-Fluorophenol	6.12	112	148011m	3.49	ng	0.01
Spiked Amount 50.000	Range 25 - 90		Recovery = 6.98%#			
10) Phenol-d5	8.12	99	163905	3.09	ng	0.02
Spiked Amount 50.000	Range 38 - 103		Recovery = 6.18%#			
26) Nitrobenzene-d5	10.11	82	217003	4.30	ng	-0.02
Spiked Amount 50.000	Range 28 - 95		Recovery = 8.60%#			
49) 2-Fluorobiphenyl	14.66	172	444408	4.37	ng	0.00
Spiked Amount 50.000	Range 46 - 95		Recovery = 8.74%#			
75) 2,4,6-Tribromophenol	18.42	330	60162	4.61	ng	0.00
Spiked Amount 50.000	Range 47 - 146		Recovery = 9.22%#			
108) Terphenyl-d14	24.12	244	551039	4.90	ng	0.03
Spiked Amount 50.000	Range 50 - 144		Recovery = 9.80%#			
Target Compounds						Qvalue
104) Fluoranthene	23.22	202	1351869	7.86	ng	99
106) Pyrene	23.74	202	4921720	30.44	ng	98
121) Benz(a)anthracene	26.26	228	1131431	7.55	ng	95
124) Chrysene	26.32	228	2758756	21.04	ng	96
128) Benzo[b]fluoranthene	28.26	252	794108m	6.18	ng	
130) Benzo(a)pyrene	28.81	252	1116926	9.71	ng	93

(#) = qualifier out of range (m) = manual integration
1C061210.D 1C612261.M Wed Jul 16 12:55:15 2003 TEST

Quantitation Report (QT Reviewed)

Data File : D:\BPARUCHU\DATA\1C061203\1C061211.D Vial: 11
Acq On : 13 Jun 2003 1:07 am Operator: BP
Sample : 0305007-31 @ INDIANA HARBOR Inst : GCMS1
Misc : WO 0305007 4.28 g/20mL/79.%S PAHs 5/2 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 15 13:00 2003 Quant Results File: 1C612261.RES

Quant Method : D:\BPARUCHU\METHODS\1C612261.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002
Last Update : Tue Jul 15 11:47:50 2003
Response via : Continuing Cal File: D:\BPARUCHU\DATA\1C061203\1C061202.D
DataAcq Meth : 1C612261

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.80	150	3089096	50.00	ng	0.00
25) Naphthalene-d8	11.86	136	6950973	50.00	ng	0.00
44) Acenaphthene-d10	16.37	164	4418240	50.00	ng	0.00
71) Phenanthrene-d10	20.24	188	6685207	50.00	ng	0.02
105) Chrysene-d12	26.29	240	6958844	50.00	ng	0.06
125) Perylene-d12	29.07	264	3811325	50.00	ng	0.10

System Monitoring Compounds						
5) 2-Fluorophenol	6.12	112	147958m	3.43	ng	0.01
Spiked Amount 50.000	Range 25 - 90		Recovery = 6.86%#			
10) Phenol-d5	8.13	99	172485	3.21	ng	0.02
Spiked Amount 50.000	Range 38 - 103		Recovery = 6.42%#			
26) Nitrobenzene-d5	10.11	82	217546	4.24	ng	-0.02
Spiked Amount 50.000	Range 28 - 95		Recovery = 8.48%#			
49) 2-Fluorobiphenyl	14.66	172	480606	4.65	ng	0.00
Spiked Amount 50.000	Range 46 - 95		Recovery = 9.30%#			
75) 2,4,6-Tribromophenol	18.43	330	58798	4.52	ng	0.02
Spiked Amount 50.000	Range 47 - 146		Recovery = 9.04%#			
108) Terphenyl-d14	24.14	244	522215	4.08	ng	0.04
Spiked Amount 50.000	Range 50 - 144		Recovery = 8.16%#			

Target Compounds						Qvalue
104) Fluoranthene	23.24	202	2485767	14.47	ng	100
106) Pyrene	23.76	202	7393826	40.19	ng	97
121) Benz(a)anthracene	26.28	228	2581716	15.15	ng	96
124) Chrysene	26.35	228	5476077	36.70	ng	93
128) Benzo[b]fluoranthene	28.27	252	941912m	7.34	ng	
130) Benzo(a)pyrene	28.83	252	1708425	14.87	ng	93

(#) = qualifier out of range (m) = manual integration
1C061211.D 1C612261.M Wed Jul 16 12:55:58 2003 TEST

Quantitation Report (QT Reviewed)

Data File : D:\BPARUCHU\DATA\1C061203\1C061212.D Vial: 12
Acq On : 13 Jun 2003 1:54 am Operator: BP
Sample : 0305007-32 @ INDIANA HARBOR Inst : GCMS1
Misc : WO 0305007 4.46 g/20mL/82.6%S PAHs 5/2 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 15 13:08 2003 Quant Results File: 1C612261.RES

Quant Method : D:\BPARUCHU\METHODS\1C612261.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002
Last Update : Tue Jul 15 11:47:50 2003
Response via : Continuing Cal File: D:\BPARUCHU\DATA\1C061203\1C061202.D
DataAcq Meth : 1C612261

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.81	150	2959732	50.00	ng	0.00
25) Naphthalene-d8	11.86	136	6665679	50.00	ng	-0.01
44) Acenaphthene-d10	16.37	164	4229244	50.00	ng	0.00
71) Phenanthrene-d10	20.24	188	6555196	50.00	ng	0.01
105) Chrysene-d12	26.30	240	6753694	50.00	ng	0.06
125) Perylene-d12	29.09	264	3749892	50.00	ng	0.11

System Monitoring Compounds						
5) 2-Fluorophenol	6.13	112	143297m	3.47	ng	0.03
Spiked Amount 50.000	Range 25 - 90		Recovery = 6.94%#			
10) Phenol-d5	8.13	99	161284	3.13	ng	0.03
Spiked Amount 50.000	Range 38 - 103		Recovery = 6.26%#			
26) Nitrobenzene-d5	10.11	82	198776	4.04	ng	-0.02
Spiked Amount 50.000	Range 28 - 95		Recovery = 8.08%#			
49) 2-Fluorobiphenyl	14.66	172	437934	4.42	ng	0.00
Spiked Amount 50.000	Range 46 - 95		Recovery = 8.84%#			
75) 2,4,6-Tribromophenol	18.43	330	57383	4.50	ng	0.00
Spiked Amount 50.000	Range 47 - 146		Recovery = 9.00%#			
108) Terphenyl-d14	24.13	244	458607	3.70	ng	0.04
Spiked Amount 50.000	Range 50 - 144		Recovery = 7.40%#			

Target Compounds							Qvalue
104) Fluoranthene	23.23	202	866051	5.14	ng		99
106) Pyrene	23.75	202	3338463	18.70	ng		98
124) Chrysene	26.34	228	1654330	11.42	ng	#	83
128) Benzo[b]fluoranthene	28.29	252	689560m	5.46	ng		
130) Benzo(a)pyrene	28.84	252	761300	6.74	ng		94

(#) = qualifier out of range (m) = manual integration
1C061212.D 1C612261.M Wed Jul 16 12:56:45 2003 TEST

Quantitation Report (QT Reviewed)

Data File : D:\BPARUCHU\DATA\1C061203\1C061213.D Vial: 13
Acq On : 13 Jun 2003 2:42 am Operator: BP
Sample : 0305007-33 @ INDIANA HARBOR Inst : GCMS1
Misc : WO 0305007 13.7 g/20mL/84.4%S PAHs 5/2 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 15 13:11 2003 Quant Results File: 1C612261.RES

Quant Method : D:\BPARUCHU\METHODS\1C612261.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002
Last Update : Tue Jul 15 11:47:50 2003
Response via : Continuing Cal File: D:\BPARUCHU\DATA\1C061203\1C061202.D
DataAcq Meth : 1C612261

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.81	150	3411378	50.00	ng	0.00
25) Naphthalene-d8	11.87	136	7750241	50.00	ng	0.00
44) Acenaphthene-d10	16.38	164	4969862	50.00	ng	0.00
71) Phenanthrene-d10	20.25	188	7584747	50.00	ng	0.03
105) Chrysene-d12	26.31	240	8824039	50.00	ng	0.08
125) Perylene-d12	29.08	264	4619442	50.00	ng	0.10
System Monitoring Compounds						
5) 2-Fluorophenol	6.14	112	139143m	2.92	ng	0.03
Spiked Amount 50.000	Range 25 - 90		Recovery	=	5.84%#	
10) Phenol-d5	8.12	99	155310	2.61	ng	0.02
Spiked Amount 50.000	Range 38 - 103		Recovery	=	5.22%#	
26) Nitrobenzene-d5	10.12	82	254113	4.44	ng	-0.01
Spiked Amount 50.000	Range 28 - 95		Recovery	=	8.88%#	
49) 2-Fluorobiphenyl	14.67	172	567256	4.87	ng	0.00
Spiked Amount 50.000	Range 46 - 95		Recovery	=	9.74%#	
75) 2,4,6-Tribromophenol	18.44	330	72536	4.91	ng	0.02
Spiked Amount 50.000	Range 47 - 146		Recovery	=	9.82%#	
108) Terphenyl-d14	24.14	244	600194	3.70	ng	0.05
Spiked Amount 50.000	Range 50 - 144		Recovery	=	7.40%#	

Target Compounds							Qvalue
104) Fluoranthene	23.25	202	2213568	11.35	ng		100
106) Pyrene	23.77	202	7428194	31.84	ng		98
121) Benz(a)anthracene	26.29	228	3156167	14.60	ng		90
124) Chrysene	26.36	228	6234893	32.95	ng	#	93
128) Benzo[b]fluoranthene	28.28	252	1262928m	8.12	ng		
130) Benzo(a)pyrene	28.83	252	2233840m	16.04	ng		
134) Benzo(g,h,i)perylene	32.24	276	543552	5.79	ng		96

(#) = qualifier out of range (m) = manual integration
1C061213.D 1C612261.M Wed Jul 16 12:57:18 2003 TEST

Quantitation Report (QT Reviewed)

Data File : D:\BPARUCHU\DATA\1C061203\1C061214.D Vial: 14
Acq On : 13 Jun 2003 3:29 am Operator: BP
Sample : 0305007-38 @ INDIANA HARBOR Inst : GCMS1
Misc : WO # 0305007 10.8 g/20mL/88.%S PAHs 5/ Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 15 13:14 2003 Quant Results File: 1C612261.RES

Quant Method : D:\BPARUCHU\METHODS\1C612261.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002
Last Update : Tue Jul 15 11:47:50 2003
Response via : Continuing Cal File: D:\BPARUCHU\DATA\1C061203\1C061202.D
DataAcq Meth : 1C612261

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.80	150	3021776m	50.00	ng	0.00
25) Naphthalene-d8	11.87	136	6855161	50.00	ng	0.00
44) Acenaphthene-d10	16.37	164	4305363	50.00	ng	0.00
71) Phenanthrene-d10	20.25	188	6240161	50.00	ng	0.02
105) Chrysene-d12	26.31	240	6999699	50.00	ng	0.08
125) Perylene-d12	29.09	264	3532612	50.00	ng	0.12

System Monitoring Compounds						
5) 2-Fluorophenol	6.15	112	137817m	3.27	ng	0.04
Spiked Amount 50.000	Range 25 - 90		Recovery = 6.54%#			
10) Phenol-d5	8.15	99	154222	2.93	ng	0.05
Spiked Amount 50.000	Range 38 - 103		Recovery = 5.86%#			
26) Nitrobenzene-d5	10.12	82	198020	3.92	ng	-0.01
Spiked Amount 50.000	Range 28 - 95		Recovery = 7.84%#			
49) 2-Fluorobiphenyl	14.66	172	448272	4.45	ng	0.00
Spiked Amount 50.000	Range 46 - 95		Recovery = 8.90%#			
75) 2,4,6-Tribromophenol	18.44	330	48614	4.00	ng	0.02
Spiked Amount 50.000	Range 47 - 146		Recovery = 8.00%#			
108) Terphenyl-d14	24.15	244	452022	3.51	ng	0.06
Spiked Amount 50.000	Range 50 - 144		Recovery = 7.02%#			

Target Compounds							Qvalue
104) Fluoranthene	23.27	202	3324223	20.72	ng		100
106) Pyrene	23.80	202	11286262	60.99	ng		97
121) Benz(a)anthracene	26.30	228	3754432	21.90	ng	#	76
124) Chrysene	26.37	228	8221153	54.77	ng	#	88
128) Benzo[b]fluoranthene	28.31	252	1635119m	13.74	ng		
130) Benzo(a)pyrene	28.85	252	2730060	25.64	ng		93
134) Benzo(g,h,i)perylene	32.29	276	807300m	11.25	ng		

(#) = qualifier out of range (m) = manual integration
1C061214.D 1C612261.M Wed Jul 16 12:58:08 2003 TEST

Quantitation Report (QT Reviewed)

Data File : D:\BPARUCHU\DATA\1C061203\1C061215.D Vial: 15
Acq On : 13 Jun 2003 4:17 am Operator: BP
Sample : 0305007-39 @ INDIANA HARBOR Inst : GCMS1
Misc : WO # 0305007 10.6 g/20mL /82.6%S PAHs 5/ Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 15 13:16 2003 Quant Results File: 1C612261.RES

Quant Method : D:\BPARUCHU\METHODS\1C612261.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002
Last Update : Tue Jul 15 11:47:50 2003
Response via : Continuing Cal File: D:\BPARUCHU\DATA\1C061203\1C061202.D
DataAcq Meth : 1C612261

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.80	150	3183051	50.00	ng	0.00
25) Naphthalene-d8	11.86	136	7062677	50.00	ng	0.00
44) Acenaphthene-d10	16.36	164	5391487	50.00	ng	0.00
71) Phenanthrene-d10	20.23	188	7190273	50.00	ng	0.00
105) Chrysene-d12	26.27	240	7008670	50.00	ng	0.04
125) Perylene-d12	29.04	264	4508396	50.00	ng	0.07

System Monitoring Compounds						
5) 2-Fluorophenol	6.12	112	132989m	3.00	ng	0.01
Spiked Amount 50.000	Range 25 - 90		Recovery = 6.00%#			
10) Phenol-d5	8.13	99	155296	2.80	ng	0.02
Spiked Amount 50.000	Range 38 - 103		Recovery = 5.60%#			
26) Nitrobenzene-d5	10.12	82	242135	4.65	ng	-0.01
Spiked Amount 50.000	Range 28 - 95		Recovery = 9.30%#			
49) 2-Fluorobiphenyl	14.66	172	512378	4.06	ng	0.00
Spiked Amount 50.000	Range 46 - 95		Recovery = 8.12%#			
75) 2,4,6-Tribromophenol	18.42	330	72567	5.18	ng	0.00
Spiked Amount 50.000	Range 47 - 146		Recovery = 10.36%#			
108) Terphenyl-d14	24.12	244	829423	6.44	ng	0.02
Spiked Amount 50.000	Range 50 - 144		Recovery = 12.88%#			

Target Compounds						Qvalue
104) Fluoranthene	23.22	202	1785214	9.66	ng	99
106) Pyrene	23.73	202	5214945-	28.14	ng	98
121) Benz(a)anthracene	26.25	228	1870780	10.90	ng	98
124) Chrysene	26.32	228	3957430	26.33	ng	96
128) Benzo[b]fluoranthene	28.25	252	1076249m	7.09	ng	
134) Benzo(g,h,i)perylene	32.22	276	561418	6.13	ng	97

(#) = qualifier out of range (m) = manual integration
1C061215.D 1C612261.M Wed Jul 16 12:58:48 2003 TEST

Quantitation Report (QT Reviewed)

Data File : D:\BPARUCHU\DATA\1C061203\1C061218.D Vial: 18
Acq On : 13 Jun 2003 6:40 am Operator: BP
Sample : 0305007-34 @ INDIANA HARBOR Inst : GCMS1
Misc : WO 0305007 4.09 g/10mL/79.7%S PAHs 6/ Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 15 18:57 2003 Quant Results File: 1C612262.RES

Quant Method : D:\BPARUCHU\METHODS\1C612262.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002
Last Update : Tue Jul 15 11:58:02 2003
Response via : Continuing Cal File: D:\BPARUCHU\DATA\1C061203\1C061217.D
DataAcq Meth : 1C612262

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.80	150	3143919	50.00	ng	-0.02
25) Naphthalene-d8	11.86	136	7287774	50.00	ng	-0.02
44) Acenaphthene-d10	16.36	164	4721982	50.00	ng	-0.01
71) Phenanthrene-d10	20.23	188	7178353	50.00	ng	-0.01
105) Chrysene-d12	26.27	240	6020572	50.00	ng	0.02
125) Perylene-d12	29.04	264	4071998	50.00	ng	0.05
System Monitoring Compounds						
5) 2-Fluorophenol	6.14	112	291837m	6.86	ng	0.02
Spiked Amount 50.000	Range 25 - 90		Recovery	=	13.72%#	
10) Phenol-d5	8.12	99	336902	6.05	ng	0.00
Spiked Amount 50.000	Range 38 - 103		Recovery	=	12.10%#	
26) Nitrobenzene-d5	10.11	82	403022	7.29	ng	-0.03
Spiked Amount 50.000	Range 28 - 95		Recovery	=	14.58%#	
49) 2-Fluorobiphenyl	14.65	172	837658	7.52	ng	-0.01
Spiked Amount 50.000	Range 46 - 95		Recovery	=	15.04%#	
75) 2,4,6-Tribromophenol	18.42	330	106811	7.54	ng	0.00
Spiked Amount 50.000	Range 47 - 146		Recovery	=	15.08%#	
108) Terphenyl-d14	24.12	244	1041301	9.17	ng	0.02
Spiked Amount 50.000	Range 50 - 144		Recovery	=	18.34%#	
Target Compounds						Qvalue
104) Fluoranthene	23.21	202	996263	5.33	ng	99
106) Pyrene	23.73	202	5045389	30.52	ng	98
121) Benz(a)anthracene	26.24	228	852729m	5.66	ng	
124) Chrysene	26.31	228	3045507	23.64	ng	96
128) Benzo[b]fluoranthene	28.25	252	924990m	6.57	ng	
134) Benzo(g,h,i)perylene	32.23	276	578711	7.03	ng #	83

(#) = qualifier out of range (m) = manual integration
1C061218.D 1C612262.M Wed Jul 16 12:59:52 2003 TEST

Quantitation Report (QT Reviewed)

Data File : D:\BPARUCHU\DATA\1C061203\1C061219.D Vial: 19
Acq On : 13 Jun 2003 7:28 am Operator: BP
Sample : 0305007-35 @ INDIANA HARBOR Inst : GCMS1
Misc : WO 0305007 17.6 g/10mL/90.7%S PAHs 6/ Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 15 18:59 2003 Quant Results File: 1C612262.RES

Quant Method : D:\BPARUCHU\METHODS\1C612262.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002
Last Update : Tue Jul 15 11:58:02 2003
Response via : Continuing Cal File: D:\BPARUCHU\DATA\1C061203\1C061217.D
DataAcq Meth : 1C612262

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.81	150	3380127	50.00	ng	0.00
25) Naphthalene-d8	11.87	136	7689630	50.00	ng	0.00
44) Acenaphthene-d10	16.39	164	4337526	50.00	ng	0.02
71) Phenanthrene-d10	20.26	188	6592855	50.00	ng	0.03
105) Chrysene-d12	26.23	240	7227782	50.00	ng	-0.01
125) Perylene-d12	28.98	264	4695348	50.00	ng	-0.01

System Monitoring Compounds

5) 2-Fluorophenol	6.18	112	111283	2.43	ng	0.05
Spiked Amount 50.000	Range 25 - 90		Recovery = 4.86%#			
10) Phenol-d5	8.15	99	257613	4.30	ng	0.03
Spiked Amount 50.000	Range 38 - 103		Recovery = 8.60%#			
26) Nitrobenzene-d5	10.12	82	341500	5.86	ng	-0.02
Spiked Amount 50.000	Range 28 - 95		Recovery = 11.72%#			
49) 2-Fluorobiphenyl	14.67	172	610883	5.97	ng	0.00
Spiked Amount 50.000	Range 46 - 95		Recovery = 11.94%#			
75) 2,4,6-Tribromophenol	18.46	330	65310	5.02	ng	0.04
Spiked Amount 50.000	Range 47 - 146		Recovery = 10.04%#			
108) Terphenyl-d14	24.10	244	868641	6.37	ng	0.00
Spiked Amount 50.000	Range 50 - 144		Recovery = 12.74%#			

Target Compounds						Qvalue
91) Phenanthrene	20.32	178	801279	5.43	ng	94

(#) = qualifier out of range (m) = manual integration
1C061219.D 1C612262.M Wed Jul 16 13:00:33 2003 TEST

Quantitation Report (QT Reviewed)

Data File : D:\BPARUCHU\DATA\1C061203\1C061220.D Vial: 20
Acq On : 13 Jun 2003 8:16 am Operator: BP
Sample : B306001-MS1 @ INDIANA HARBOR Inst : GCMS1
Misc : WO 0305007 16.9 g/10mL/90.7%S PAHs 6/ Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 15 19:02 2003 Quant Results File: 1C612262.RES

Quant Method : D:\BPARUCHU\METHODS\1C612262.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002
Last Update : Tue Jul 15 11:58:02 2003
Response via : Continuing Cal File: D:\BPARUCHU\DATA\1C061203\1C061217.D
DataAcq Meth : 1C612262

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.81	150	6004413	50.00	ng	0.00
25) Naphthalene-d8	11.89	136	13183796	50.00	ng	0.01
44) Acenaphthene-d10	16.42	164	8161425	50.00	ng	0.05
71) Phenanthrene-d10	20.30	188	11983136	50.00	ng	0.06
105) Chrysene-d12	26.26	240	11666310	50.00	ng	0.01
125) Perylene-d12	29.01	264	7813968	50.00	ng	0.01

System Monitoring Compounds						
5) 2-Fluorophenol	6.16	112	163370	2.01	ng	0.04
Spiked Amount 50.000	Range 25 - 90		Recovery = 4.02%#			
10) Phenol-d5	8.13	99	402000	3.78	ng	0.01
Spiked Amount 50.000	Range 38 - 103		Recovery = 7.56%#			
26) Nitrobenzene-d5	10.12	82	406363	4.07	ng	-0.02
Spiked Amount 50.000	Range 28 - 95		Recovery = 8.14%#			
49) 2-Fluorobiphenyl	14.68	172	867527	4.51	ng	0.01
Spiked Amount 50.000	Range 46 - 95		Recovery = 9.02%#			
75) 2,4,6-Tribromophenol	18.48	330	78978	3.34	ng	0.05
Spiked Amount 50.000	Range 47 - 146		Recovery = 6.68%#			
108) Terphenyl-d14	24.11	244	1082891	4.92	ng	0.00
Spiked Amount 50.000	Range 50 - 144		Recovery = 9.84%#			

Target Compounds						Qvalue
24) 3-&/or 4-Methylphenol	9.88	107	953291	6.69	ng	92
59) Acenaphthene	16.48	153	1043097	5.60	ng #	95
66) Fluorene	17.83	166	1253104	5.89	ng #	92
91) Phenanthrene	20.35	178	2115257	7.88	ng	96
94) Anthracene	20.46	178	1437231m	5.05	ng	
104) Fluoranthene	23.23	202	1581987	5.07	ng	98
106) Pyrene	23.73	202	2080786	6.50	ng	98
123) Bis(2-ethylhexyl)phthalate	26.28	149	1160553	5.16	ng	100
124) Chrysene	26.29	228	1442895	5.78	ng	98
126) Di-n-octylphthalate	27.44	149	1939451	5.42	ng	98
129) Benzo(k)fluoranthene	28.25	252	1243858	5.70	ng	89

(#) = qualifier out of range (m) = manual integration
1C061220.D 1C612262.M Wed Jul 16 13:01:27 2003 TEST

Quantitation Report (QT Reviewed)

Data File : D:\BPARUCHU\DATA\1C061203\1C061221.D Vial: 21
Acq On : 13 Jun 2003 9:05 am Operator: BP
Sample : B306001-MSD1 @ INDIANA HARBOR Inst : GCMS1
Misc : WO 0305007 17.0 g/10mL/90.7%S PAHs 6/ Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 15 19:06 2003 Quant Results File: 1C612262.RES

Quant Method : D:\BPARUCHU\METHODS\1C612262.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002
Last Update : Tue Jul 15 11:58:02 2003
Response via : Continuing Cal File: D:\BPARUCHU\DATA\1C061203\1C061217.D
DataAcq Meth : 1C612262

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.80	150	3910027m	50.00	ng	-0.01
25) Naphthalene-d8	11.88	136	8568618	50.00	ng	0.00
44) Acenaphthene-d10	16.43	164	4519018	50.00	ng	0.05
71) Phenanthrene-d10	20.32	188	6752373	50.00	ng	0.09
105) Chrysene-d12	26.25	240	8034714	50.00	ng	0.00
125) Perylene-d12	28.99	264	5366362	50.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	6.14	112	449534m	8.50	ng	0.02
Spiked Amount 50.000	Range 25 - 90		Recovery = 17.00%#			
10) Phenol-d5	8.12	99	609025	8.79	ng	0.00
Spiked Amount 50.000	Range 38 - 103		Recovery = 17.58%#			
26) Nitrobenzene-d5	10.12	82	663294	10.21	ng	-0.01
Spiked Amount 50.000	Range 28 - 95		Recovery = 20.42%#			
49) 2-Fluorobiphenyl	14.69	172	996866	9.35	ng	0.02
Spiked Amount 50.000	Range 46 - 95		Recovery = 18.70%#			
75) 2,4,6-Tribromophenol	18.51	330	105498	7.92	ng	0.09
Spiked Amount 50.000	Range 47 - 146		Recovery = 15.84%#			
108) Terphenyl-d14	24.12	244	1451898	9.58	ng	0.02
Spiked Amount 50.000	Range 50 - 144		Recovery = 19.16%#			

Target Compounds

						Qvalue
2) 2-Picoline	4.99	93	399732m	7.19	ng	
3) N-Nitrosomethylethylamine	5.28	88	245000m	8.75	ng	
4) Methyl methanesulfonate	5.85	80	164966m	6.56	ng	
6) N-Nitrosodiethylamine	6.59	102	239887m	8.10	ng	
7) Ethyl methanesulfonate	7.23	79	383307	8.38	ng	97
8) Aniline	8.11	93	453990	5.78	ng #	50
9) Pentachloroethane	8.16	167	185257m	7.92	ng	
11) Phenol	8.15	94	708056	8.61	ng #	80
12) Bis(2-chloroethyl)ether	8.27	93	581867	8.75	ng	85
13) 2-Chlorophenol	8.37	128	540227	8.51	ng	99
14) 1,3-Dichlorobenzene	8.66	146	351051	5.07	ng #	96
15) 1,4-Dichlorobenzene	8.84	146	351039	5.05	ng #	1
16) 1,2-Dichlorobenzene	9.18	146	562912	8.41	ng	99
18) bis(2-Chloroisopropyl)ethe	9.52	121	224834	9.76	ng	95
19) 2-Methylphenol	9.51	108	515315	9.00	ng	89
20) Acetophenone	9.78	105	1010292	11.51	ng	83
21) o-Toluidine	9.86	106	638603	7.13	ng	78
22) Hexachloroethane	9.96	201	210506	8.64	ng	99
23) N-Nitroso-di-n-propylamine	9.83	70	511441	10.80	ng	92
24) 3-&/or 4-Methylphenol	9.88	107	1539800	16.59	ng	93
27) Nitrobenzene	10.17	123	300989	9.20	ng	99
28) N-Nitrosopiperidine	10.54	114	295430	9.80	ng #	56
29) Isophorone	10.78	82	1232278	9.70	ng	98
30) 2-Nitrophenol	10.94	139	302871	8.53	ng #	1

31)	2,4-Dimethylphenol	11.15	107	550815	8.60	ng		96
32)	o,o,o-Triethylphosphorothi	11.31	198	332091	9.92	ng		94
33)	Bis(2-chloroethoxy)methane	11.36	93	681717	9.45	ng	#	93
34)	2,4-Dichlorophenol	11.60	162	439167	9.32	ng	#	76
35)	1,2,4-Trichlorobenzene	11.74	180	525978	9.45	ng		96
36)	Naphthalene	11.93	128	1887231	10.63	ng	#	87
37)	Hexachloropropene	12.15	213	193203	5.86	ng		100
38)	4-Choroaniline	12.11	127	298419	5.08	ng	#	79
39)	Hexachlorobutadiene	12.27	225	287866	9.00	ng		99
40)	N-Nitrosodi-n-butylamine	13.02	84	399507	9.05	ng	#	89
41)	4-Chloro-3-methylphenol	13.46	107	524911	9.62	ng		94
42)	Safrole	13.53	162	615506	12.61	ng	#	81
43)	2-Methylnaphthalene	13.71	142	1154925	9.38	ng	#	88
46)	1,2,4,5-Tetrachlorobenzene	14.16	216	428651	9.23	ng		99
47)	2,4,6-Trichlorophenol	14.49	196	269255	8.87	ng	#	88
48)	2,4,5-Trichlorophenol	14.63	196	251951	8.09	ng	#	1
50)	Isosafrole	14.88	162	372691	9.17	ng	#	82
51)	2-Chloronaphthalene	14.96	162	881670	8.92	ng		93
52)	2-Nitroaniline	15.27	138	256118	7.24	ng	#	81
53)	1,4-Naphthoquinone	15.47	158	167650	6.37	ng	#	85
54)	Dimethylphthalate	15.79	163	1061046	8.95	ng	#	92
55)	2,6-Dinitrotoluene	15.94	165	261652	9.05	ng	#	60
56)	1,3-Dinitrobenzene	15.88	168	147268	7.15	ng	#	1
57)	Acenaphthylene	16.03	152	1771099	11.01	ng	#	88
58)	3-Nitroaniline	16.35	138	261056	10.90	ng		99
59)	Acenaphthene	16.50	153	1338290	12.97	ng	#	95
61)	Pentachlorobenzene	16.88	250	335983	8.23	ng		99
62)	Dibenzofuran	16.95	168	1529359	10.95	ng		91
63)	2,4-Dinitrotoluene	17.02	165	519058	13.72	ng	#	61
65)	Diethylphthalate	17.66	149	1213679	10.24	ng		99
66)	Fluorene	17.85	166	1635342	13.88	ng	#	91
67)	4-Chlorophenylphenyl ether	17.90	204	488059	8.63	ng	#	60
68)	Thionazin	17.88	97	1203330	42.55	ng	#	36
70)	4-Nitroaniline	17.97	138	208799	9.11	ng		82
72)	2-Methyl-4,6-dinitrophenol	18.11	198	87897	5.28	ng	#	1
73)	Diphenylamine	18.23	169	2591192	27.01	ng	#	64
74)	Azobenzene	18.31	77	1622768	14.23	ng	#	47
76)	Sulfotep	18.70	322	166843	8.67	ng	#	1
77)	Phorate	19.01	260	77644	8.24	ng	#	1
78)	Diallate	19.23	86	468273	11.75	ng	#	51
79)	4-Bromophenyl phenyl ether	19.17	248	231259	8.28	ng	#	85
83)	Hexachlorobenzene	19.37	284	236663	7.81	ng		99
84)	Dimethoate	19.44	87	559855	12.65	ng	#	83
85)	Beta-BHC	19.85	181	465825	25.63	ng	#	9
86)	Pentachloronitrobenzene	19.90	295	44080	8.06	ng		99
88)	Pentachlorophenol	19.88	266	92169	6.21	ng		86
89)	Delta-BHC	19.98	181	239928	13.22	ng	#	76
90)	Pronamide	20.08	173	466632	9.31	ng		92
91)	Phenanthrene	20.37	178	2580763	17.06	ng		97
93)	Disulfoton	20.38	88	976110	12.64	ng	#	94
94)	Anthracene	20.49	178	1865652m	11.62	ng		
95)	Gamma-BHC	20.67	181	535716	30.95	ng	#	35
96)	Carbazole	20.95	167	1621127	11.69	ng	#	85
97)	Methyl Parathion	21.33	263	188128	8.33	ng	#	52
98)	Heptachlor	21.57	272	110790	7.87	ng	#	50
99)	Di-n-butylphthalate	21.89	149	2215968	11.78	ng		99
100)	Aldrin	22.31	263	123214	9.54	ng	#	59
101)	Ethyl Parathion	22.29	291	178877	9.52	ng		82
102)	Isodrin	22.89	193	190525	9.88	ng	#	49
103)	Heptachlor Epoxide	23.04	353	90977	9.72	ng	#	44
104)	Fluoranthene	23.26	202	2279953	12.96	ng		99
106)	Pyrene	23.75	202	2895982	13.13	ng		97
107)	p,p'-DDE	24.01	246	473919	9.80	ng		96

109)	Dieldrin	24.18	79	380067	10.01	ng		93
110)	p-Dimethylaminoazobenzene	24.42	225	510454	9.93	ng		95
111)	Chlorobenzilate	24.53	251	637162	9.42	ng		97
112)	Endrin	24.55	263	61041	7.47	ng	#	45
113)	p,p'-DDD	24.72	235	936845	11.02	ng		96
114)	Endrin Aldehyde	24.41	67	28340	43.14	ng	#	100
115)	Famphur	25.03	218	730151	41.08	ng		96
116)	Butylbenzylphthalate	25.16	149	1215706	10.98	ng		99
117)	Endosulfan Sulfate	25.31	235	582958	9.78	ng		97
118)	2-Acetylaminofluorene	25.64	181	864175	9.78	ng		97
119)	Endrin Ketone	26.10	227	1162148	10.20	ng		97
120)	Methoxychlor	26.10	227	1162148	10.20	ng		99
121)	Benz(a)anthracene	26.22	228	2184701	10.87	ng		96
122)	3,3'-Dichlorobenzidine	26.18	252	246701	5.85	ng		98
123)	Bis(2-ethylhexyl)phthalate	26.28	149	1776718	11.48	ng		100
124)	Chrysene	26.28	228	2038599	11.86	ng		99
126)	Di-n-octylphthalate	27.44	149	2964764	12.07	ng		98
127)	7,12-Dimethylbenz(a)anthra	28.17	256	612158	6.68	ng		97
128)	Benzo[b]fluoranthene	28.20	252	1961708	10.58	ng		94
129)	Benzo(k)fluoranthene	28.25	252	1639393	10.94	ng		96
130)	Benzo(a)pyrene	28.85	252	1528393	9.44	ng		98
131)	3-Methylcholanthrene	29.57	268	765291	10.54	ng		99
132)	Indeno[1,2,3,cd]pyrene	31.43	276	1353561	9.57	ng	#	82
133)	Dibenz(a,h)anthracene	31.46	278	1049781	9.12	ng		92
134)	Benzo(g,h,i)perylene	32.16	276	1053486	9.71	ng	#	79

(#) = qualifier out of range (m) = manual integration
1C061221.D 1C612262.M Wed Jul 16 13:01:41 2003 TEST

Quantitation Report (QT Reviewed)

Data File : D:\BPARUCHU\DATA\1C061203\1C061222.D Vial: 22
Acq On : 13 Jun 2003 9:53 am Operator: BP
Sample : 0305007-36 @ INDIANA HARBOR Inst : GCMS1
Misc : WO 0305007 4.28 g/10mL /83.6%S PAHs 6/4 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 15 19:46 2003 Quant Results File: 1C612262.RES

Quant Method : D:\BPARUCHU\METHODS\1C612262.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002
Last Update : Tue Jul 15 11:58:02 2003
Response via : Continuing Cal File: D:\BPARUCHU\DATA\1C061203\1C061217.D
DataAcq Meth : 1C612262

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.80	150	3180143m	50.00	ng	-0.01
25) Naphthalene-d8	11.86	136	7259767	50.00	ng	-0.01
44) Acenaphthene-d10	16.38	164	4443149	50.00	ng	0.00
71) Phenanthrene-d10	20.26	188	6478651	50.00	ng	0.02
105) Chrysene-d12	26.31	240	7257282	50.00	ng	0.06
125) Perylene-d12	29.09	264	3639131	50.00	ng	0.09

System Monitoring Compounds						
5) 2-Fluorophenol	6.15	112	334810m	7.78	ng	0.03
Spiked Amount 50.000	Range 25 - 90		Recovery = 15.56%#			
10) Phenol-d5	8.14	99	374669	6.65	ng	0.03
Spiked Amount 50.000	Range 38 - 103		Recovery = 13.30%#			
26) Nitrobenzene-d5	10.12	82	428850	7.79	ng	-0.02
Spiked Amount 50.000	Range 28 - 95		Recovery = 15.58%#			
49) 2-Fluorobiphenyl	14.66	172	937314	8.95	ng	0.00
Spiked Amount 50.000	Range 46 - 95		Recovery = 17.90%#			
75) 2,4,6-Tribromophenol	18.45	330	107973	8.45	ng	0.03
Spiked Amount 50.000	Range 47 - 146		Recovery = 16.90%#			
108) Terphenyl-d14	24.15	244	949054	6.93	ng	0.05
Spiked Amount 50.000	Range 50 - 144		Recovery = 13.86%#			

Target Compounds							Qvalue
66) Fluorene	17.79	166	658097	5.68	ng	#	89
91) Phenanthrene	20.31	178	919106	6.33	ng		96
104) Fluoranthene	23.27	202	2967805	17.58	ng		99
106) Pyrene	23.80	202	10006775—	50.21	ng		98
121) Benz(a)anthracene	26.29	228	3238877	17.84	ng	#	78
124) Chrysene	26.37	228	7009890	45.14	ng	#	90
128) Benzo[b]fluoranthene	28.30	252	1229301m	9.78	ng		
130) Benzo(a)pyrene	28.84	252	2209161	20.11	ng		94
134) Benzo(g,h,i)perylene	32.27	276	682504	9.28	ng	#	80

(#) = qualifier out of range (m) = manual integration
1C061222.D 1C612262.M Wed Jul 16 13:02:29 2003 TEST

Quantitation Report (QT Reviewed)

Data File : D:\BPARUCHU\DATA\1C061203\1C061223.D Vial: 23
Acq On : 13 Jun 2003 10:42 am Operator: BP
Sample : 0305007-40 @ INDIANA HARBOR Inst : GCMS1
Misc : WO 0305007 11.1g/20 mL/78.8%S PAHs 5/ Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 15 19:48 2003 Quant Results File: 1C612262.RES

Quant Method : D:\BPARUCHU\METHODS\1C612262.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002
Last Update : Tue Jul 15 11:58:02 2003
Response via : Continuing Cal File: D:\BPARUCHU\DATA\1C061203\1C061217.D
DataAcq Meth : 1C612262

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.80	150	3154604	50.00	ng	-0.01
25) Naphthalene-d8	11.86	136	7085923	50.00	ng	-0.01
44) Acenaphthene-d10	16.36	164	4422603	50.00	ng	0.00
71) Phenanthrene-d10	20.22	188	7157344	50.00	ng	-0.01
105) Chrysene-d12	26.24	240	6910540	50.00	ng	0.00
125) Perylene-d12	29.00	264	4858320	50.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	6.12	112	120345	2.82	ng	0.00
Spiked Amount 50.000	Range 25 - 90		Recovery = 5.64%#			
10) Phenol-d5	8.12	99	192206	3.44	ng	0.00
Spiked Amount 50.000	Range 38 - 103		Recovery = 6.88%#			
26) Nitrobenzene-d5	10.11	82	223548	4.16	ng	-0.03
Spiked Amount 50.000	Range 28 - 95		Recovery = 8.32%#			
49) 2-Fluorobiphenyl	14.67	172	428807	4.11	ng	0.00
Spiked Amount 50.000	Range 46 - 95		Recovery = 8.22%#			
75) 2,4,6-Tribromophenol	18.44	330	57147	4.05	ng	0.02
Spiked Amount 50.000	Range 47 - 146		Recovery = 8.10%#			
108) Terphenyl-d14	24.09	244	710403	5.45	ng	0.00
Spiked Amount 50.000	Range 50 - 144		Recovery = 10.90%#			

Target Compounds						Qvalue
106) Pyrene	23.70	202	1108526	5.84	ng	96

(#) = qualifier out of range (m) = manual integration
1C061223.D 1C612262.M Wed Jul 16 13:03:07 2003 TEST

Quantitation Report (QT Reviewed)

Data File : D:\BPARUCHU\DATA\1C061203\1C061224.D Vial: 24
Acq On : 13 Jun 2003 11:29 am Operator: BP
Sample : B305027-MS1 @ INDIANA HARBOR Inst : GCMS1
Misc : WO 0305007 10.4 g/20 mL/78.8%S PAHs 5/ Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 15 19:49 2003 Quant Results File: 1C612262.RES

Quant Method : D:\BPARUCHU\METHODS\1C612262.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002
Last Update : Tue Jul 15 11:58:02 2003
Response via : Continuing Cal File: D:\BPARUCHU\DATA\1C061203\1C061217.D
DataAcq Meth : 1C612262

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.80	150	3433706	50.00	ng	-0.01
25) Naphthalene-d8	11.86	136	7610614	50.00	ng	-0.01
44) Acenaphthene-d10	16.36	164	4887425	50.00	ng	-0.01
71) Phenanthrene-d10	20.22	188	8048095	50.00	ng	-0.02
105) Chrysene-d12	26.23	240	8158839	50.00	ng	-0.02
125) Perylene-d12	28.98	264	5272383	50.00	ng	-0.01

System Monitoring Compounds						
5) 2-Fluorophenol	6.14	112	195620m	4.21	ng	0.02
Spiked Amount 50.000	Range 25 - 90		Recovery = 8.42%#			
10) Phenol-d5	8.12	99	275028	4.52	ng	0.00
Spiked Amount 50.000	Range 38 - 103		Recovery = 9.04%#			
26) Nitrobenzene-d5	10.11	82	276289	4.79	ng	-0.03
Spiked Amount 50.000	Range 28 - 95		Recovery = 9.58%#			
49) 2-Fluorobiphenyl	14.66	172	588310	5.10	ng	0.00
Spiked Amount 50.000	Range 46 - 95		Recovery = 10.20%#			
75) 2,4,6-Tribromophenol	18.43	330	65192	4.11	ng	0.00
Spiked Amount 50.000	Range 47 - 146		Recovery = 8.22%#			
108) Terphenyl-d14	24.09	244	754452	4.90	ng	0.00
Spiked Amount 50.000	Range 50 - 144		Recovery = 9.80%#			

Target Compounds						Qvalue
24) 3-&/or 4-Methylphenol	9.88	107	610938	7.49	ng	96
36) Naphthalene	11.91	128	826860	5.24	ng	98
39) Hexachlorobutadiene	12.25	225	143992	5.07	ng	99
42) Safrole	13.51	162	218768	5.04	ng	95
51) 2-Chloronaphthalene	14.92	162	539284	5.04	ng	96
59) Acenaphthene	16.43	153	573458	5.14	ng	100
61) Pentachlorobenzene	16.79	250	228871	5.18	ng	99
62) Dibenzofuran	16.89	168	810226	5.37	ng	95
65) Diethylphthalate	17.60	149	662875	5.17	ng	99
66) Fluorene	17.78	166	671697	5.27	ng	99
67) 4-Chlorophenylphenyl ether	17.83	204	329410	5.38	ng	92
79) 4-Bromophenyl phenyl ether	19.09	248	178289	5.35	ng	92
83) Hexachlorobenzene	19.20	284	183274	5.07	ng	99
91) Phenanthrene	20.26	178	970555	5.38	ng	98
94) Anthracene	20.40	178	1007897	5.27	ng	98
96) Carbazole	20.87	167	860582	5.21	ng	99
99) Di-n-butylphthalate	21.84	149	1278914	5.70	ng	99
104) Fluoranthene	23.19	202	1108608	5.29	ng	99
106) Pyrene	23.70	202	1204485	5.38	ng	98
111) Chlorobenzilate	24.51	251	349238	5.09	ng	91
115) Famphur	25.01	218	251784	13.95	ng	98
116) Butylbenzylphthalate	25.14	149	564455	5.02	ng	96
121) Benz(a)anthracene	26.19	228	1049073	5.14	ng	96
122) 3,3'-Dichlorobenzidine	26.18	252	228730	5.34	ng	97

123)	Bis(2-ethylhexyl)phthalate	26.28	149	837455	5.33 ng	99
124)	Chrysene	26.26	228	1031709	5.91 ng	98
126)	Di-n-octylphthalate	27.43	149	1383234	5.73 ng	98
129)	Benzo(k)fluoranthene	28.24	252	844150	5.73 ng	93

(#) = qualifier out of range (m) = manual integration
1C061224.D 1C612262.M Wed Jul 16 13:03:31 2003 TEST

Quantitation Report (QT Reviewed)

Data File : D:\BPARUCHU\DATA\1C063003\1C063019.D Vial: 19
Acq On : 1 Jul 2003 1:25 am Operator: BP
Sample : B305027-MSD1 @ Indiana Harbor Inst : GCMS1
Misc : 0305007 7-40 10.1g/20 mL/78.8%S 5/27/03 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 15 10:14 2003 Quant Results File: 1C630262.RES

Quant Method : D:\BPARUCHU\METHODS\1C630262.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002
Last Update : Tue Jul 01 15:37:47 2003
Response via : Continuing Cal File: D:\BPARUCHU\DATA\1C063003\1C063018.D
DataAcq Meth : 1C630262

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.80	150	4160310	50.00	ng	0.00
25) Naphthalene-d8	11.86	136	9305649	50.00	ng	0.00
44) Acenaphthene-d10	16.35	164	6134233	50.00	ng	0.00
71) Phenanthrene-d10	20.21	188	10183811	50.00	ng	-0.02
105) Chrysene-d12	26.22	240	11061121	50.00	ng	-0.01
125) Perylene-d12	28.97	264	6241502	50.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	6.14	112	239864m	4.31	ng	0.03
Spiked Amount 50.000	Range 25 - 90		Recovery	=	8.62%#	
10) Phenol-d5	8.13	99	304212	4.25	ng	0.02
Spiked Amount 50.000	Range 38 - 103		Recovery	=	8.50%#	
26) Nitrobenzene-d5	10.11	82	343824	4.79	ng	-0.02
Spiked Amount 50.000	Range 28 - 95		Recovery	=	9.58%#	
49) 2-Fluorobiphenyl	14.66	172	676496	4.85	ng	0.00
Spiked Amount 50.000	Range 46 - 95		Recovery	=	9.70%#	
75) 2,4,6-Tribromophenol	18.42	330	69182	3.50	ng	0.00
Spiked Amount 50.000	Range 47 - 146		Recovery	=	7.00%#	
108) Terphenyl-d14	24.09	244	1000776	5.17	ng	0.00
Spiked Amount 50.000	Range 50 - 144		Recovery	=	10.34%#	
Target Compounds						Qvalue
99) Di-n-butylphthalate	21.84	149	1345045	5.18	ng	99
104) Fluoranthene	23.19	202	1309702	5.06	ng	98
106) Pyrene	23.70	202	1417215	5.34	ng	98
124) Chrysene	26.26	228	1282631	5.37	ng	98
126) Di-n-octylphthalate	27.43	149	1400416	5.40	ng	98

(#) = qualifier out of range (m) = manual integration
1C063019.D 1C630262.M Wed Jul 16 13:06:29 2003 TEST

Quantitation Report (QT Reviewed)

Data File : D:\BPARUCHU\DATA\1C063003\1C063020.D Vial: 20
Acq On : 1 Jul 2003 2:11 am Operator: BP
Sample : B306001-BLK1 @ Indiana Harbor Inst : GCMS1
Misc : 0305007 30.g/2 mL/ 100 %S 6/04/03 PAHs Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 15 10:15 2003 Quant Results File: 1C630262.RES

Quant Method : D:\BPARUCHU\METHODS\1C630262.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002
Last Update : Tue Jul 01 15:37:47 2003
Response via : Continuing Cal File: D:\BPARUCHU\DATA\1C063003\1C063018.D
DataAcq Meth : 1C630262

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.80	150	4127147	50.00	ng	0.00
25) Naphthalene-d8	11.85	136	9301422	50.00	ng	-0.01
44) Acenaphthene-d10	16.35	164	5950970	50.00	ng	-0.01
71) Phenanthrene-d10	20.21	188	10700845	50.00	ng	-0.02
105) Chrysene-d12	26.22	240	10706087	50.00	ng	-0.02
125) Perylene-d12	28.98	264	5105159	50.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	6.15	112	2111986m	38.22	ng	0.04
Spiked Amount 50.000	Range 25 - 90		Recovery = 76.44%			
10) Phenol-d5	8.12	99	2902576	40.87	ng	0.00
Spiked Amount 50.000	Range 38 - 103		Recovery = 81.74%			
26) Nitrobenzene-d5	10.13	82	3312320	46.14	ng	0.00
Spiked Amount 50.000	Range 28 - 95		Recovery = 92.28%			
49) 2-Fluorobiphenyl	14.66	172	6192296	45.72	ng	0.00
Spiked Amount 50.000	Range 46 - 95		Recovery = 91.44%			
75) 2,4,6-Tribromophenol	18.43	330	513728	24.73	ng	0.01
Spiked Amount 50.000	Range 47 - 146		Recovery = 49.46%			
108) Terphenyl-d14	24.10	244	9653610	51.51	ng	0.00
Spiked Amount 50.000	Range 50 - 144		Recovery = 103.02%			

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
1C063020.D 1C630262.M Wed Jul 16 13:07:01 2003 TEST

Quantitation Report (QT Reviewed)

Data File : D:\BPARUCHU\DATA\1C063003\1C063022.D Vial: 22
Acq On : 1 Jul 2003 3:44 am Operator: BP
Sample : B306001-BSD1 @ Indiana Harbor Inst : GCMS1
Misc : 0305007 30.g/2 mL/100 %S 6/04/03 PAHs Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 15 10:20 2003 Quant Results File: 1C630262.RES

Quant Method : D:\BPARUCHU\METHODS\1C630262.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002
Last Update : Tue Jul 01 15:37:47 2003
Response via : Continuing Cal File: D:\BPARUCHU\DATA\1C063003\1C063018.D
DataAcq Meth : 1C630262

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.81	150	4441421	50.00	ng	0.00
25) Naphthalene-d8	11.87	136	9780934	50.00	ng	0.00
44) Acenaphthene-d10	16.37	164	6379485	50.00	ng	0.00
71) Phenanthrene-d10	20.24	188	10657770	50.00	ng	0.00
105) Chrysene-d12	26.24	240	11461405	50.00	ng	0.00
125) Perylene-d12	28.99	264	7496120	50.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	6.16	112	2286553m	38.45	ng	0.05
Spiked Amount 50.000	Range 25 - 90		Recovery = 76.90%			
10) Phenol-d5	8.13	99	3273280	42.83	ng	0.02
Spiked Amount 50.000	Range 38 - 103		Recovery = 85.66%			
26) Nitrobenzene-d5	10.15	82	3173950	42.04	ng	0.01
Spiked Amount 50.000	Range 28 - 95		Recovery = 84.08%			
49) 2-Fluorobiphenyl	14.67	172	6358724	43.79	ng	0.00
Spiked Amount 50.000	Range 46 - 95		Recovery = 87.58%			
75) 2,4,6-Tribromophenol	18.44	330	1058934	51.17	ng	0.02
Spiked Amount 50.000	Range 47 - 146		Recovery = 102.34%			
108) Terphenyl-d14	24.11	244	9599715	47.85	ng	0.01
Spiked Amount 50.000	Range 50 - 144		Recovery = 95.70%			

Target Compounds							Qvalue
2) 2-Picoline	5.00	93	1923944m	27.56	ng		
3) N-Nitrosomethylethylamine	5.27	88	1277587	37.93	ng		99
4) Methyl methanesulfonate	5.86	80	1085407	36.52	ng	#	77
6) N-Nitrosodiethylamine	6.60	102	1312296	40.00	ng		84
7) Ethyl methanesulfonate	7.26	79	2057035	40.05	ng		100
8) Aniline	8.11	93	3355772	39.05	ng	#	43
9) Pentachloroethane	8.16	167	916378m	33.04	ng		
11) Phenol	8.16	94	3628747	40.63	ng	#	55
12) Bis(2-chloroethyl)ether	8.29	93	2580383	35.67	ng		91
13) 2-Chlorophenol	8.38	128	2632410	38.72	ng		99
14) 1,3-Dichlorobenzene	8.66	146	2598066	33.95	ng		100
15) 1,4-Dichlorobenzene	8.85	146	2685361	34.25	ng		69
16) 1,2-Dichlorobenzene	9.18	146	2633175	35.79	ng		100
17) Benzyl alcohol	9.21	108	1457240	50.97	ng		100
18) bis(2-Chloroisopropyl)ethe	9.51	121	970612	39.18	ng	#	57
19) 2-Methylphenol	9.52	108	2428180	37.16	ng	#	58
20) Acetophenone	9.80	105	3786759	38.89	ng		97
21) o-Toluidine	9.88	106	3654284	38.94	ng	#	17
22) Hexachloroethane	9.96	201	1020524	34.13	ng		100
23) N-Nitroso-di-n-propylamine	9.88	70	2206974	41.62	ng		99
24) 3-&/or 4-Methylphenol	9.93	107	8439214m	79.49	ng		
27) Nitrobenzene	10.20	123	1391615	40.00	ng		99
28) N-Nitrosopiperidine	10.59	114	1418628	42.47	ng		100
29) Isophorone	10.82	82	6075434	41.32	ng		99

30)	2-Nitrophenol	10.95	139	1537979	41.12	ng		99
31)	2,4-Dimethylphenol	11.17	107	2887097	40.14	ng		100
32)	o,o,o-Triethylphosphorothi	11.33	198	1631963	38.73	ng		95
33)	Bis(2-chloroethoxy)methane	11.39	93	3140290	39.70	ng		97
34)	2,4-Dichlorophenol	11.60	162	2293459	44.27	ng		99
35)	1,2,4-Trichlorobenzene	11.74	180	2602046	38.76	ng		100
36)	Naphthalene	11.93	128	7624793	38.40	ng		100
37)	Hexachloropropene	12.13	213	1795280	39.51	ng		100
38)	4-Choroaniline	12.12	127	2201075	46.00	ng		96
39)	Hexachlorobutadiene	12.25	225	1656892	38.38	ng		100
40)	N-Nitrosodi-n-butylamine	13.03	84	2278999	45.10	ng		100
41)	4-Chloro-3-methylphenol	13.44	107	2791698	48.60	ng		96
42)	Safrole	13.52	162	2342986	41.51	ng		99
43)	2-Methylnaphthalene	13.69	142	5673177	40.71	ng		99
45)	Hexachlorocyclopentadiene	14.09	237	1031631	45.67	ng		100
46)	1,2,4,5-Tetrachlorobenzene	14.12	216	2755322	40.98	ng		100
47)	2,4,6-Trichlorophenol	14.46	196	1819517	45.86	ng		99
48)	2,4,5-Trichlorophenol	14.59	196	1886519	50.04	ng		99
50)	Isosafrole	14.85	162	2383266	44.45	ng		99
51)	2-Chloronaphthalene	14.93	162	5485383	41.51	ng		98
52)	2-Nitroaniline	15.27	138	2046312	47.77	ng		100
53)	1,4-Naphthoquinone	15.43	158	1436458	43.22	ng		99
54)	Dimethylphthalate	15.79	163	7395466	46.49	ng		99
55)	2,6-Dinitrotoluene	15.94	165	1761854	45.99	ng		96
56)	1,3-Dinitrobenzene	15.88	168	1294657	48.08	ng		92
57)	Acenaphthylene	15.99	152	8687603	41.48	ng		99
58)	3-Nitroaniline	16.35	138	1642600	65.99	ng		95
59)	Acenaphthene	16.45	153	5739298	42.74	ng		99
60)	2,4-Dinitrophenol	16.66	184	604412	76.57	ng		94
61)	Pentachlorobenzene	16.79	250	2694158	43.13	ng		100
62)	Dibenzofuran	16.91	168	8131743	42.32	ng		97
63)	2,4-Dinitrotoluene	16.98	165	2396626	48.24	ng		97
65)	Diethylphthalate	17.64	149	7400200	46.33	ng		99
66)	Fluorene	17.80	166	7119201	43.66	ng		99
67)	4-Chlorophenylphenyl ether	17.84	204	3849609	44.27	ng		98
68)	Thionazin	17.84	97	1738126	45.30	ng		99
69)	5-Nitro-o-toluidine	17.94	152	2065688	54.12	ng		96
70)	4-Nitroaniline	17.99	138	1635850	61.33	ng		98
72)	2-Methyl-4,6-dinitrophenol	18.05	198	1407986	54.51	ng		99
73)	Diphenylamine	18.19	169	6389900	45.02	ng		99
74)	Azobenzene	18.26	77	7541244	43.93	ng		98
76)	Sulfotep	18.68	322	1569263	44.32	ng		99
77)	Phorate	18.98	260	698946	43.98	ng		98
78)	Diallate	19.16	86	2709897	46.18	ng		93
79)	4-Bromophenyl phenyl ether	19.12	248	2288138	45.76	ng		99
80)	Alpha-BHC	19.13	181	1493573	42.49	ng	#	1
81)	Phenacetin	19.18	179	2648773	55.88	ng		89
82)	1,3,5-Trinitrobenzene	19.11	213	883719	58.08	ng		99
83)	Hexachlorobenzene	19.22	284	2282781	44.10	ng		99
84)	Dimethoate	19.49	87	2585629	46.22	ng		99
85)	Beta-BHC	19.78	181	1339150	45.95	ng		99
86)	Pentachloronitrobenzene	19.81	295	444525	46.18	ng		99
87)	4-Aminobiphenyl	19.82	169	3570232	49.15	ng		98
88)	Pentachlorophenol	19.81	266	1170883	54.44	ng		100
89)	Delta-BHC	19.89	181	1278437	43.93	ng		100
90)	Pronamide	20.06	173	3611628	47.03	ng		100
91)	Phenanthrene	20.31	178	10403525	43.88	ng		98
92)	Dinoseb	20.32	211	2207690	50.92	ng		99
93)	Disulfoton	20.34	88	4769417	43.85	ng		97
94)	Anthracene	20.44	178	10627810	43.55	ng		98
95)	Gamma-BHC	20.54	181	1201196	43.76	ng		99
96)	Carbazole	20.90	167	9676214	47.83	ng		99
97)	Methyl Parathion	21.28	263	1568608	47.68	ng		99

98)	Heptachlor	21.51	272	1054430	44.30	ng		99
99)	Di-n-butylphthalate	21.86	149	11838889	43.53	ng		98
100)	Aldrin	22.26	263	1002069	43.92	ng		95
101)	Ethyl Parathion	22.26	291	1460674	44.24	ng		99
102)	Isodrin	22.84	193	1412954	47.32	ng		99
103)	Heptachlor Epoxide	22.99	353	730439	44.89	ng		100
104)	Fluoranthene	23.21	202	11966408	44.22	ng		97
106)	Pyrene	23.73	202	12303108	44.75	ng		97
107)	p,p'-DDE	23.98	246	3009792	44.73	ng		100
109)	Dieldrin	24.15	79	2087671	45.39	ng		99
110)	p-Dimethylaminoazobenzene	24.42	225	3118061	48.64	ng		99
111)	Chlorobenzilate	24.52	251	4462005	47.92	ng		98
112)	Endrin	24.53	263	524480	44.60	ng		99
113)	p,p'-DDD	24.71	235	4780877	42.94	ng		99
114)	Endrin Aldehyde	24.42	67	38338	44.54	ng	#	100
115)	Famphur	25.02	218	594358	55.77	ng		99
116)	Butylbenzylphthalate	25.16	149	5992160	46.69	ng		98
117)	Endosulfan Sulfate	25.31	235	4167827	46.91	ng		99
118)	2-Acetylaminofluorene	25.67	181	4761060	53.02	ng		99
119)	Endrin Ketone	26.11	227	7709908	45.40	ng		100
120)	Methoxychlor	26.11	227	7709908	45.40	ng		99
121)	Benz(a)anthracene	26.22	228	12723635	46.90	ng		98
122)	3,3'-Dichlorobenzidine	26.19	252	2765739	45.12	ng		98
123)	Bis(2-ethylhexyl)phthalate	26.29	149	8432398	43.81	ng		96
124)	Chrysene	26.29	228	10824254	43.72	ng		96
126)	Di-n-octylphthalate	27.45	149	12547261	40.30	ng		96
127)	7,12-Dimethylbenz(a)anthra	28.18	256	5285773	43.30	ng		98
128)	Benzo[b]fluoranthene	28.24	252	12198145	49.84	ng		99
129)	Benzo(k)fluoranthene	28.29	252	11107773m	49.09	ng		
130)	Benzo(a)pyrene	28.87	252	9749075	47.06	ng		99
131)	3-Methylcholanthrene	29.60	268	4812351	51.25	ng	#	100
132)	Indeno[1,2,3,cd]pyrene	31.49	276	7693333	48.81	ng		94
133)	Dibenz(a,h)anthracene	31.50	278	6513217	50.16	ng		95
134)	Benzo(g,h,i)perylene	32.22	276	5438104m	41.65	ng		

(#) = qualifier out of range (m) = manual integration
1C063022.D 1C630262.M Wed Jul 16 13:07:36 2003 TEST

Quantitation Report (QT Reviewed)

Data File : D:\BPARUCHU\DATA\1C063003\1C063023.D Vial: 23
Acq On : 1 Jul 2003 4:31 am Operator: BP
Sample : B306001-BS1 @ Indiana Harbor Inst : GCMS1
Misc : 0305007 30.g/2 mL/100%S 6/04/03 PAHs Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 15 10:24 2003 Quant Results File: 1C630262.RES

Quant Method : D:\BPARUCHU\METHODS\1C630262.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002
Last Update : Tue Jul 01 15:37:47 2003
Response via : Continuing Cal File: D:\BPARUCHU\DATA\1C063003\1C063018.D
DataAcq Meth : 1C630262

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.81	150	4337009	50.00	ng	0.00
25) Naphthalene-d8	11.88	136	9484094	50.00	ng	0.00
44) Acenaphthene-d10	16.37	164	6285390	50.00	ng	0.00
71) Phenanthrene-d10	20.24	188	10602755	50.00	ng	0.00
105) Chrysene-d12	26.25	240	11499872	50.00	ng	0.01
125) Perylene-d12	28.99	264	7396743	50.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	6.17	112	2207694m	38.02	ng	0.06
Spiked Amount 50.000	Range 25 - 90		Recovery = 76.04%			
10) Phenol-d5	8.14	99	3123167	41.85	ng	0.03
Spiked Amount 50.000	Range 38 - 103		Recovery = 83.70%			
26) Nitrobenzene-d5	10.15	82	3040700	41.54	ng	0.02
Spiked Amount 50.000	Range 28 - 95		Recovery = 83.08%			
49) 2-Fluorobiphenyl	14.67	172	6100450	42.64	ng	0.00
Spiked Amount 50.000	Range 46 - 95		Recovery = 85.28%			
75) 2,4,6-Tribromophenol	18.44	330	1021804	49.63	ng	0.02
Spiked Amount 50.000	Range 47 - 146		Recovery = 99.26%			
108) Terphenyl-d14	24.11	244	9444151	46.92	ng	0.01
Spiked Amount 50.000	Range 50 - 144		Recovery = 93.84%			

Target Compounds

							Qvalue
2) 2-Picoline	4.99	93	1950949m	28.62	ng		
3) N-Nitrosomethylethylamine	5.28	88	1270189m	38.62	ng		
4) Methyl methanesulfonate	5.87	80	1066018m	36.73	ng		
6) N-Nitrosodiethylamine	6.60	102	1309430	40.88	ng		84
7) Ethyl methanesulfonate	7.27	79	2065321	41.18	ng		99
8) Aniline	8.12	93	3343370	39.84	ng	#	39
9) Pentachloroethane	8.16	167	915709m	33.81	ng		
11) Phenol	8.17	94	3749255m	42.99	ng		
12) Bis(2-chloroethyl)ether	8.30	93	2596036	36.75	ng		92
13) 2-Chlorophenol	8.38	128	2656945	40.02	ng		99
14) 1,3-Dichlorobenzene	8.66	146	2590437	34.66	ng		100
15) 1,4-Dichlorobenzene	8.85	146	2703998	35.32	ng	#	67
16) 1,2-Dichlorobenzene	9.18	146	2635692	36.68	ng		100
17) Benzyl alcohol	9.22	108	1471881	52.72	ng		99
18) bis(2-Chloroisopropyl)ethe	9.51	121	965929	39.93	ng	#	55
19) 2-Methylphenol	9.55	108	2399455	37.60	ng	#	56
20) Acetophenone	9.80	105	3784287	39.80	ng		97
21) o-Toluidine	9.88	106	3498145	38.17	ng	#	13
22) Hexachloroethane	9.96	201	1025667	35.13	ng		99
23) N-Nitroso-di-n-propylamine	9.88	70	2208622	42.65	ng		99
24) 3-&/or 4-Methylphenol	9.94	107	8494603m	81.94	ng		
27) Nitrobenzene	10.20	123	1393807	41.32	ng		98
28) N-Nitrosopiperidine	10.60	114	1442927	44.55	ng		100
29) Isophorone	10.82	82	6149652	43.13	ng		99

30)	2-Nitrophenol	10.96	139	1549532	42.73	ng	99
31)	2,4-Dimethylphenol	11.18	107	2905197	41.66	ng	99
32)	o,o,o-Triethylphosphorothi	11.33	198	1656398	40.54	ng	97
33)	Bis(2-chloroethoxy)methane	11.39	93	3232162	42.14	ng	99
34)	2,4-Dichlorophenol	11.60	162	2308647	45.96	ng	100
35)	1,2,4-Trichlorobenzene	11.74	180	2609139	40.08	ng	100
36)	Naphthalene	11.93	128	7659340	39.79	ng	100
37)	Hexachloropropene	12.13	213	1789303	40.61	ng	100
38)	4-Choroaniline	12.12	127	2079865	44.83	ng	96
39)	Hexachlorobutadiene	12.25	225	1653287	39.49	ng	99
40)	N-Nitrosodi-n-butylamine	13.03	84	2299648	46.93	ng	100
41)	4-Chloro-3-methylphenol	13.44	107	2821208	50.65	ng	96
42)	Safrole	13.52	162	2357059	43.07	ng	100
43)	2-Methylnaphthalene	13.69	142	5686383	42.08	ng	99
45)	Hexachlorocyclopentadiene	14.09	237	1006555	45.23	ng	100
46)	1,2,4,5-Tetrachlorobenzene	14.12	216	2762925	41.71	ng	100
47)	2,4,6-Trichlorophenol	14.46	196	1839542	47.06	ng	99
48)	2,4,5-Trichlorophenol	14.58	196	1903831	51.26	ng	99
50)	Isosafrole	14.85	162	2386854	45.18	ng	99
51)	2-Chloronaphthalene	14.93	162	5516558	42.37	ng	98
52)	2-Nitroaniline	15.27	138	2082398	49.34	ng	99
53)	1,4-Naphthoquinone	15.43	158	1472939	44.98	ng	99
54)	Dimethylphthalate	15.79	163	7407868	47.26	ng	99
55)	2,6-Dinitrotoluene	15.94	165	1783960	47.26	ng	95
56)	1,3-Dinitrobenzene	15.88	168	1315890	49.60	ng	91
57)	Acenaphthylene	15.99	152	8741987	42.36	ng	99
58)	3-Nitroaniline	16.35	138	1638350	66.81	ng	97
59)	Acenaphthene	16.45	153	5793717	43.79	ng	99
60)	2,4-Dinitrophenol	16.66	184	603457	77.59	ng	98
61)	Pentachlorobenzene	16.80	250	2720777	44.20	ng	100
62)	Dibenzofuran	16.91	168	8186204	43.24	ng	97
63)	2,4-Dinitrotoluene	16.98	165	2420547	49.45	ng	97
65)	Diethylphthalate	17.64	149	7424380	47.17	ng	99
66)	Fluorene	17.79	166	7205583	44.85	ng	99
67)	4-Chlorophenylphenyl ether	17.84	204	3898681	45.50	ng	97
68)	Thionazin	17.84	97	1754523	46.41	ng	98
69)	5-Nitro-o-toluidine	17.94	152	2076557	55.21	ng	96
70)	4-Nitroaniline	17.99	138	1662846	63.27	ng	97
72)	2-Methyl-4,6-dinitrophenol	18.05	198	1459260	56.79	ng	99
73)	Diphenylamine	18.19	169	6445578	45.65	ng	98
74)	Azobenzene	18.26	77	7629369	44.67	ng	98
76)	Sulfotep	18.68	322	1595337	45.29	ng	100
77)	Phorate	18.98	260	711477	45.00	ng	96
78)	Diallate	19.16	86	2734640	46.84	ng	93
79)	4-Bromophenyl phenyl ether	19.12	248	2318519	46.61	ng	99
80)	Alpha-BHC	19.13	181	1517144	43.38	ng	# 1
81)	Phenacetin	19.19	179	2704726	57.36	ng	89
82)	1,3,5-Trinitrobenzene	19.11	213	967964	63.94	ng	97
83)	Hexachlorobenzene	19.22	284	2322135	45.09	ng	100
84)	Dimethoate	19.49	87	2611372	46.92	ng	99
85)	Beta-BHC	19.78	181	1371215	47.30	ng	99
86)	Pentachloronitrobenzene	19.80	295	454216	47.43	ng	99
87)	4-Aminobiphenyl	19.82	169	3589199	49.67	ng	98
88)	Pentachlorophenol	19.81	266	1176274	54.97	ng	100
89)	Delta-BHC	19.89	181	1308632	45.20	ng	100
90)	Pronamide	20.06	173	3657191	47.87	ng	100
91)	Phenanthrene	20.31	178	10545240	44.71	ng	98
92)	Dinoseb	20.32	211	2259538	52.39	ng	99
93)	Disulfoton	20.34	88	4820015	44.54	ng	97
94)	Anthracene	20.44	178	10824116	44.58	ng	98
95)	Gamma-BHC	20.54	181	1231866	45.11	ng	99
96)	Carbazole	20.90	167	9863222	49.00	ng	99
97)	Methyl Parathion	21.29	263	1597952	48.82	ng	100

98)	Heptachlor	21.51	272	1078232	45.53	ng		99
99)	Di-n-butylphthalate	21.86	149	11895868	43.97	ng		98
100)	Aldrin	22.26	263	1019721	44.92	ng		95
101)	Ethyl Parathion	22.26	291	1496082	45.55	ng		99
102)	Isodrin	22.84	193	1428018	48.07	ng		99
103)	Heptachlor Epoxide	22.99	353	744496	45.99	ng		99
104)	Fluoranthene	23.21	202	12244496	45.48	ng		97
106)	Pyrene	23.73	202	12632246	45.79	ng		97
107)	p,p'-DDE	23.99	246	3107581	46.03	ng		100
109)	Dieldrin	24.15	79	2133950	46.25	ng		99
110)	p-Dimethylaminoazobenzene	24.42	225	3183928	49.50	ng		99
111)	Chlorobenzilate	24.53	251	4545870	48.66	ng		99
112)	Endrin	24.53	263	536883	45.50	ng		99
113)	p,p'-DDD	24.71	235	4956690	44.37	ng		99
114)	Endrin Aldehyde	24.42	67	38888	45.02	ng	#	100
115)	Famphur	25.03	218	516228	48.27	ng		99
116)	Butylbenzylphthalate	25.16	149	6142288	47.70	ng		98
117)	Endosulfan Sulfate	25.31	235	4327365	48.54	ng		99
118)	2-Acetylaminofluorene	25.67	181	4866491	54.01	ng		99
119)	Endrin Ketone	26.11	227	7985748	46.87	ng		100
120)	Methoxychlor	26.11	227	7985748	46.87	ng		99
121)	Benz(a)anthracene	26.22	228	13040362	47.90	ng		98
122)	3,3'-Dichlorobenzidine	26.19	252	2739806	44.55	ng		99
123)	Bis(2-ethylhexyl)phthalate	26.29	149	8687215	44.98	ng		96
124)	Chrysene	26.30	228	11172962	44.98	ng		96
126)	Di-n-octylphthalate	27.45	149	12792835	41.64	ng		96
127)	7,12-Dimethylbenz(a)anthra	28.18	256	5315946	44.13	ng		99
128)	Benzo[b]fluoranthene	28.24	252	12493195	51.73	ng		99
129)	Benzo(k)fluoranthene	28.29	252	10233042m	45.83	ng		
130)	Benzo(a)pyrene	28.87	252	9818826	48.03	ng		98
131)	3-Methylcholanthrene	29.59	268	4819578	52.01	ng	#	84
132)	Indeno[1,2,3,cd]pyrene	31.50	276	7674501	49.34	ng		94
133)	Dibenz(a,h)anthracene	31.50	278	6461573	50.43	ng		95
134)	Benzo(g,h,i)perylene	32.22	276	5563491m	43.18	ng		

(#) = qualifier out of range (m) = manual integration
1C063023.D 1C630262.M Wed Jul 16 13:08:08 2003 TEST

Quantitation Report (QT Reviewed)

Data File : D:\BPARUCHU\DATA\1C063003\1C063024.D Vial: 24
Acq On : 1 Jul 2003 5:17 am Operator: BP
Sample : B306014-BLK1 @ Indiana Harbor Inst : GCMS1
Misc : 0305007 30.g/2 mL/100%S 6/12/03 PAHs Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 15 10:25 2003 Quant Results File: 1C630262.RES

Quant Method : D:\BPARUCHU\METHODS\1C630262.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002
Last Update : Tue Jul 01 15:37:47 2003
Response via : Continuing Cal File: D:\BPARUCHU\DATA\1C063003\1C063018.D
DataAcq Meth : 1C630262

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.79	150	3608840	50.00	ng	-0.01
25) Naphthalene-d8	11.85	136	8199625	50.00	ng	-0.02
44) Acenaphthene-d10	16.35	164	5020922	50.00	ng	-0.01
71) Phenanthrene-d10	20.21	188	9106136	50.00	ng	-0.02
105) Chrysene-d12	26.22	240	9101069	50.00	ng	-0.02
125) Perylene-d12	28.99	264	4776716m	50.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	6.10	112	660m	0.01	ng	-0.01
Spiked Amount 50.000	Range 25 - 90		Recovery = 0.02%#			
10) Phenol-d5	8.11	99	1654666	26.65	ng	0.00
Spiked Amount 50.000	Range 38 - 103		Recovery = 53.30%			
26) Nitrobenzene-d5	10.11	82	2111012	33.36	ng	-0.02
Spiked Amount 50.000	Range 28 - 95		Recovery = 66.72%			
49) 2-Fluorobiphenyl	14.66	172	3773305	33.02	ng	0.00
Spiked Amount 50.000	Range 46 - 95		Recovery = 66.04%			
75) 2,4,6-Tribromophenol	18.45	330	312164m	17.66	ng	0.03
Spiked Amount 50.000	Range 47 - 146		Recovery = 35.32%#			
108) Terphenyl-d14	24.10	244	7228472	45.37	ng	0.00
Spiked Amount 50.000	Range 50 - 144		Recovery = 90.74%			

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
1C063024.D 1C630262.M Wed Jul 16 13:08:27 2003 TEST

Quantitation Report (QT Reviewed)

Data File : D:\BPARUCHU\DATA\1C063003\1C063025.D Vial: 25
Acq On : 1 Jul 2003 6:04 am Operator: BP
Sample : B306014-BS1 @ Indiana Harbor Inst : GCMS1
Misc : 0305007 30.g/2 mL/ 100 %S 6/12/03 PAHs Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 16 10:53 2003 Quant Results File: 1C630262.RES

Quant Method : D:\BPARUCHU\METHODS\1C630262.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002
Last Update : Tue Jul 01 15:37:47 2003
Response via : Continuing Cal File: D:\BPARUCHU\DATA\1C063003\1C063018.D
DataAcq Meth : 1C630262

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.80	150	4068756	50.00	ng	0.00
25) Naphthalene-d8	11.87	136	9035098	50.00	ng	0.00
44) Acenaphthene-d10	16.36	164	5925013	50.00	ng	0.00
71) Phenanthrene-d10	20.23	188	9991775	50.00	ng	0.00
105) Chrysene-d12	26.24	240	10766614	50.00	ng	0.00
125) Perylene-d12	28.99	264	6931387	50.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	6.16	112	1735406m	31.86	ng	0.05
Spiked Amount 50.000	Range 25 - 90		Recovery = 63.72%			
10) Phenol-d5	8.13	99	2516208	35.94	ng	0.02
Spiked Amount 50.000	Range 38 - 103		Recovery = 71.88%			
26) Nitrobenzene-d5	10.14	82	2486761	35.66	ng	0.00
Spiked Amount 50.000	Range 28 - 95		Recovery = 71.32%			
49) 2-Fluorobiphenyl	14.67	172	4940251	36.63	ng	0.00
Spiked Amount 50.000	Range 46 - 95		Recovery = 73.26%			
75) 2,4,6-Tribromophenol	18.43	330	825703	42.56	ng	0.01
Spiked Amount 50.000	Range 47 - 146		Recovery = 85.12%			
108) Terphenyl-d14	24.11	244	8376526	44.45	ng	0.01
Spiked Amount 50.000	Range 50 - 144		Recovery = 88.90%			

Target Compounds

							Qvalue
2) 2-Picoline	4.99	93	1812989m	28.35	ng		
3) N-Nitrosomethylethylamine	5.27	88	1043293m	33.81	ng		
4) Methyl methanesulfonate	5.86	80	849781m	31.21	ng		
6) N-Nitrosodiethylamine	6.60	102	1062042	35.34	ng		83
7) Ethyl methanesulfonate	7.26	79	1638804	34.83	ng		100
8) Aniline	8.11	93	2593887	32.95	ng	#	42
9) Pentachloroethane	8.16	167	747154m	29.41	ng		
11) Phenol	8.16	94	2955029m	36.12	ng		
12) Bis(2-chloroethyl)ether	8.29	93	2091831	31.56	ng		92
13) 2-Chlorophenol	8.38	128	2083461	33.45	ng		99
14) 1,3-Dichlorobenzene	8.66	146	2124039	30.30	ng		99
15) 1,4-Dichlorobenzene	8.84	146	2203037	30.68	ng		79
16) 1,2-Dichlorobenzene	9.18	146	2143808	31.80	ng		100
17) Benzyl alcohol	9.21	108	1117396	42.66	ng		99
18) bis(2-Chloroisopropyl)ethe	9.51	121	768664	33.87	ng	#	68
19) 2-Methylphenol	9.56	108	1845327	30.83	ng	#	69
20) Acetophenone	9.80	105	2990494	33.52	ng		97
21) o-Toluidine	9.87	106	2613593	30.40	ng		93
22) Hexachloroethane	9.95	201	841178	30.71	ng		100
23) N-Nitroso-di-n-propylamine	9.86	70	1749940	36.02	ng		100
24) 3-&/or 4-Methylphenol	9.92	107	6225476	64.01	ng		93
27) Nitrobenzene	10.19	123	1102092	34.29	ng		99
28) N-Nitrosopiperidine	10.58	114	1122440	36.38	ng		100
29) Isophorone	10.81	82	4856508	35.76	ng		100

30)	2-Nitrophenol	10.95	139	1208109	34.97	ng	99
31)	2,4-Dimethylphenol	11.16	107	1952075	29.38	ng	99
32)	o,o,o-Triethylphosphorothi	11.32	198	1422513	36.55	ng	97
33)	Bis(2-chloroethoxy)methane	11.37	93	2500579	34.22	ng	98
34)	2,4-Dichlorophenol	11.60	162	1727072	36.09	ng	100
35)	1,2,4-Trichlorobenzene	11.73	180	2086536	33.64	ng	100
36)	Naphthalene	11.92	128	6174531	33.67	ng	100
37)	Hexachloropropene	12.13	213	1441382	34.34	ng	100
38)	4-Choroaniline	12.11	127	1473653	33.34	ng	96
39)	Hexachlorobutadiene	12.25	225	1327549	33.29	ng	100
40)	N-Nitrosodi-n-butylamine	13.02	84	1796474	38.48	ng	100
41)	4-Chloro-3-methylphenol	13.44	107	2135754	40.25	ng	97
42)	Safrole	13.51	162	1835145	35.20	ng	100
43)	2-Methylnaphthalene	13.69	142	4487496	34.86	ng	100
45)	Hexachlorocyclopentadiene	14.09	237	759260	36.19	ng	99
46)	1,2,4,5-Tetrachlorobenzene	14.11	216	2150099	34.43	ng	99
47)	2,4,6-Trichlorophenol	14.45	196	1384421	37.57	ng	99
48)	2,4,5-Trichlorophenol	14.60	196	1426604	40.74	ng	99
50)	Isosafrole	14.84	162	1808900	36.33	ng	99
51)	2-Chloronaphthalene	14.93	162	4335114	35.32	ng	100
52)	2-Nitroaniline	15.26	138	1617806	40.66	ng	99
53)	1,4-Naphthoquinone	15.43	158	1162996	37.68	ng	99
54)	Dimethylphthalate	15.78	163	6014734	40.71	ng	100
55)	2,6-Dinitrotoluene	15.93	165	1425236	40.05	ng	99
56)	1,3-Dinitrobenzene	15.86	168	1043260	41.72	ng	97
57)	Acenaphthylene	15.98	152	6963992	35.80	ng	99
58)	3-Nitroaniline	16.34	138	1237711	53.54	ng	98
59)	Acenaphthene	16.45	153	4550700	36.49	ng	99
60)	2,4-Dinitrophenol	16.65	184	394452	53.80	ng	99
61)	Pentachlorobenzene	16.79	250	2117521	36.50	ng	100
62)	Dibenzofuran	16.90	168	6532344	36.61	ng	99
63)	2,4-Dinitrotoluene	16.97	165	1952708	42.32	ng	98
65)	Diethylphthalate	17.63	149	6167155	41.57	ng	99
66)	Fluorene	17.79	166	5755347	38.00	ng	99
67)	4-Chlorophenylphenyl ether	17.84	204	3093250	38.30	ng	97
68)	Thionazin	17.84	97	1586598	44.52	ng	99
69)	5-Nitro-o-toluidine	17.92	152	1652708	46.62	ng	98
70)	4-Nitroaniline	17.97	138	1332817	53.80	ng	99
72)	2-Methyl-4,6-dinitrophenol	18.04	198	1143154	47.21	ng	99
73)	Diphenylamine	18.18	169	5250869	39.46	ng	99
74)	Azobenzene	18.25	77	6204616	38.55	ng	99
76)	Sulfotep	18.67	322	1435070	43.23	ng	99
77)	Phorate	18.97	260	647045	43.43	ng	97
78)	Diallate	19.15	86	2249771	40.89	ng	95
79)	4-Bromophenyl phenyl ether	19.11	248	1854107	39.55	ng	99
80)	Alpha-BHC	19.11	181	1368922	41.54	ng	89
81)	Phenacetin	19.17	179	2036062	45.82	ng	97
82)	1,3,5-Trinitrobenzene	19.09	213	745774	52.28	ng	100
83)	Hexachlorobenzene	19.21	284	1870170	38.54	ng	100
84)	Dimethoate	19.48	87	2477124	47.23	ng	99
85)	Beta-BHC	19.78	181	1238405	45.33	ng	100
86)	Pentachloronitrobenzene	19.80	295	370758	41.08	ng	99
87)	4-Aminobiphenyl	19.82	169	2741278	40.25	ng	98
88)	Pentachlorophenol	19.80	266	860270	42.66	ng	99
89)	Delta-BHC	19.89	181	1180171	43.26	ng	100
90)	Pronamide	20.05	173	3054540	42.43	ng	100
91)	Phenanthrene	20.30	178	8799241	39.59	ng	99
92)	Dinoseb	20.32	211	1857370	45.70	ng	100
93)	Disulfoton	20.33	88	4443063	43.57	ng	98
94)	Anthracene	20.43	178	9025601	39.45	ng	99
95)	Gamma-BHC	20.54	181	1134048	44.07	ng	99
96)	Carbazole	20.89	167	8247382	43.48	ng	99
97)	Methyl Parathion	21.28	263	1496507	48.52	ng	100

98)	Heptachlor	21.50	272	962890	43.15	ng		99
99)	Di-n-butylphthalate	21.86	149	10375072	40.69	ng		99
100)	Aldrin	22.25	263	923670	43.18	ng		96
101)	Ethyl Parathion	22.26	291	1387215	44.82	ng		99
102)	Isodrin	22.83	193	1189818	42.50	ng		99
103)	Heptachlor Epoxide	22.99	353	685620	44.94	ng		99
104)	Fluoranthene	23.21	202	10420002	41.07	ng		98
106)	Pyrene	23.72	202	10808028	41.85	ng		98
107)	p,p'-DDE	23.98	246	2877208	45.52	ng		100
109)	Dieldrin	24.15	79	1959233	45.35	ng		100
110)	p-Dimethylaminoazobenzene	24.42	225	2668073	44.31	ng		100
111)	Chlorobenzilate	24.52	251	3857938	44.11	ng		99
112)	Endrin	24.53	263	503601	45.59	ng		99
113)	p,p'-DDD	24.70	235	4601166	43.99	ng		99
114)	Endrin Aldehyde	24.41	67	31899	39.45	ng	#	100
115)	Famphur	25.02	218	764687	76.38	ng		99
116)	Butylbenzylphthalate	25.16	149	5208984	43.21	ng		99
117)	Endosulfan Sulfate	25.31	235	4057835	48.61	ng		99
118)	2-Acetylaminofluorene	25.66	181	3946418	46.78	ng		99
119)	Endrin Ketone	26.10	227	7488398	46.94	ng		100
120)	Methoxychlor	26.10	227	7488398	46.94	ng		99
121)	Benz(a)anthracene	26.21	228	10969846	43.04	ng		99
122)	3,3'-Dichlorobenzidine	26.19	252	2013205	34.96	ng		99
123)	Bis(2-ethylhexyl)phthalate	26.28	149	7413936	41.00	ng		97
124)	Chrysene	26.29	228	9725904	41.82	ng		98
126)	Di-n-octylphthalate	27.44	149	10825159	37.60	ng		98
127)	7,12-Dimethylbenz(a)anthra	28.18	256	4333646	38.39	ng		99
128)	Benzo[b]fluoranthene	28.23	252	10180960	44.99	ng		99
129)	Benzo(k)fluoranthene	28.29	252	8246394	39.41	ng		96
130)	Benzo(a)pyrene	28.86	252	8268443	43.16	ng		99
131)	3-Methylcholanthrene	29.59	268	4027096	46.38	ng	#	84
132)	Indeno[1,2,3,cd]pyrene	31.48	276	6316820	43.34	ng		94
133)	Dibenz(a,h)anthracene	31.50	278	5289876	44.05	ng		96
134)	Benzo(g,h,i)perylene	32.21	276	5566790m	46.11	ng		

(#) = qualifier out of range (m) = manual integration
1C063025.D 1C630262.M Wed Jul 16 13:08:44 2003 TEST

Quantitation Report (QT Reviewed)

Data File : D:\BPARUCHU\DATA\1C063003\1C063026.D Vial: 26
Acq On : 1 Jul 2003 6:50 am Operator: BP
Sample : B306014-BSD1 @ Indiana Harbor Inst : GCMS1
Misc : 0305007 30.g/2 mL/100 %S 6/12/03 PAHs Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 16 10:57 2003 Quant Results File: 1C630262.RES

Quant Method : D:\BPARUCHU\METHODS\1C630262.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002
Last Update : Tue Jul 01 15:37:47 2003
Response via : Continuing Cal File: D:\BPARUCHU\DATA\1C063003\1C063018.D
DataAcq Meth : 1C630262

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.81	150	4349388	50.00	ng	0.00
25) Naphthalene-d8	11.87	136	9550614	50.00	ng	0.00
44) Acenaphthene-d10	16.37	164	6206130	50.00	ng	0.00
71) Phenanthrene-d10	20.24	188	10427501	50.00	ng	0.00
105) Chrysene-d12	26.24	240	11182804	50.00	ng	0.00
125) Perylene-d12	28.99	264	7433321	50.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	6.17	112	2235534m	38.39	ng	0.06
Spiked Amount 50.000	Range 25 - 90		Recovery = 76.78%			
10) Phenol-d5	8.14	99	3095013	41.36	ng	0.03
Spiked Amount 50.000	Range 38 - 103		Recovery = 82.72%			
26) Nitrobenzene-d5	10.15	82	3022872	41.01	ng	0.01
Spiked Amount 50.000	Range 28 - 95		Recovery = 82.02%			
49) 2-Fluorobiphenyl	14.67	172	5857596	41.47	ng	0.00
Spiked Amount 50.000	Range 46 - 95		Recovery = 82.94%			
75) 2,4,6-Tribromophenol	18.44	330	930204	45.94	ng	0.02
Spiked Amount 50.000	Range 47 - 146		Recovery = 91.88%			
108) Terphenyl-d14	24.11	244	8777035	44.84	ng	0.01
Spiked Amount 50.000	Range 50 - 144		Recovery = 89.68%			

Target Compounds							Qvalue
2) 2-Picoline	5.00	93	2328745m	34.07	ng		
3) N-Nitrosomethylethylamine	5.28	88	1280493	38.82	ng		95
4) Methyl methanesulfonate	5.86	80	1052037	36.14	ng	#	76
6) N-Nitrosodiethylamine	6.60	102	1312741	40.86	ng		85
7) Ethyl methanesulfonate	7.26	79	1998467	39.73	ng		99
8) Aniline	8.11	93	3057585	36.33	ng	#	43
9) Pentachloroethane	8.16	167	935658m	34.45	ng		
11) Phenol	8.17	94	3639413m	41.61	ng		
12) Bis(2-chloroethyl)ether	8.30	93	2538398	35.83	ng		91
13) 2-Chlorophenol	8.38	128	2586469	38.85	ng		99
14) 1,3-Dichlorobenzene	8.67	146	2664251	35.55	ng		100
15) 1,4-Dichlorobenzene	8.85	146	2743292	35.73	ng	#	66
16) 1,2-Dichlorobenzene	9.18	146	2658923	36.90	ng		100
17) Benzyl alcohol	9.22	108	1415098	50.55	ng		99
18) bis(2-Chloroisopropyl)ethe	9.51	121	944645	38.93	ng	#	56
19) 2-Methylphenol	9.56	108	2241755	35.03	ng	#	63
20) Acetophenone	9.80	105	3645511	38.23	ng		97
21) o-Toluidine	9.88	106	2818755	30.67	ng	#	4
22) Hexachloroethane	9.96	201	1041311	35.56	ng		100
23) N-Nitroso-di-n-propylamine	9.88	70	2100877	40.45	ng		99
24) 3-&/or 4-Methylphenol	9.94	107	7515104m	72.28	ng		
27) Nitrobenzene	10.20	123	1352644	39.82	ng		99
28) N-Nitrosopiperidine	10.59	114	1348058	41.33	ng		99
29) Isophorone	10.82	82	5708592	39.76	ng		99

30)	2-Nitrophenol	10.95	139	1503587	41.17 ng	99
31)	2,4-Dimethylphenol	11.17	107	2148987	30.60 ng	100
32)	o,o,o-Triethylphosphorothi	11.33	198	1627666	39.56 ng	97
33)	Bis(2-chloroethoxy)methane	11.38	93	3039219	39.35 ng	99
34)	2,4-Dichlorophenol	11.61	162	2141164	42.33 ng	100
35)	1,2,4-Trichlorobenzene	11.73	180	2557566	39.01 ng	100
36)	Naphthalene	11.92	128	7433726	38.34 ng	100
37)	Hexachloropropene	12.13	213	1776435	40.04 ng	100
38)	4-Choroaniline	12.12	127	1368771	29.30 ng	97
39)	Hexachlorobutadiene	12.25	225	1617466	38.37 ng	100
40)	N-Nitrosodi-n-butylamine	13.03	84	2104815	42.66 ng	100
41)	4-Chloro-3-methylphenol	13.44	107	2531316	45.13 ng	97
42)	Safrole	13.52	162	2211922	40.13 ng	100
43)	2-Methylnaphthalene	13.69	142	5407511	39.73 ng	99
45)	Hexachlorocyclopentadiene	14.09	237	1012858	46.09 ng	100
46)	1,2,4,5-Tetrachlorobenzene	14.12	216	2611226	39.93 ng	99
47)	2,4,6-Trichlorophenol	14.46	196	1663611	43.10 ng	100
48)	2,4,5-Trichlorophenol	14.59	196	1684511	45.93 ng	99
50)	Isosafrole	14.85	162	2182462	41.84 ng	99
51)	2-Chloronaphthalene	14.93	162	5198548	40.44 ng	99
52)	2-Nitroaniline	15.27	138	1868200	44.83 ng	100
53)	1,4-Naphthoquinone	15.43	158	1334059	41.26 ng	99
54)	Dimethylphthalate	15.78	163	6683413	43.18 ng	100
55)	2,6-Dinitrotoluene	15.94	165	1620332	43.47 ng	97
56)	1,3-Dinitrobenzene	15.87	168	1197340	45.71 ng	95
57)	Acenaphthylene	15.99	152	8137422	39.94 ng	99
58)	3-Nitroaniline	16.35	138	1317224	54.40 ng	95
59)	Acenaphthene	16.45	153	5379548	41.18 ng	99
60)	2,4-Dinitrophenol	16.66	184	491106	63.95 ng	99
61)	Pentachlorobenzene	16.80	250	2522738	41.51 ng	100
62)	Dibenzofuran	16.91	168	7570612	40.50 ng	98
63)	2,4-Dinitrotoluene	16.97	165	2184578	45.20 ng	97
65)	Diethylphthalate	17.64	149	6674097	42.95 ng	99
66)	Fluorene	17.79	166	6581985	41.49 ng	98
67)	4-Chlorophenylphenyl ether	17.84	204	3551249	41.98 ng	96
68)	Thionazin	17.84	97	1653918	44.31 ng	99
69)	5-Nitro-o-toluidine	17.93	152	1787084	48.12 ng	99
70)	4-Nitroaniline	17.98	138	1441679	55.56 ng	99
72)	2-Methyl-4,6-dinitrophenol	18.05	198	1300169	51.45 ng	99
73)	Diphenylamine	18.18	169	5836257	42.03 ng	99
74)	Azobenzene	18.26	77	6930518	41.26 ng	99
76)	Sulfotep	18.67	322	1496946	43.21 ng	99
77)	Phorate	18.98	260	667389	42.92 ng	98
78)	Diallate	19.16	86	2479372	43.18 ng	93
79)	4-Bromophenyl phenyl ether	19.11	248	2089227	42.71 ng	99
80)	Alpha-BHC	19.13	181	1433741	41.69 ng	86
81)	Phenacetin	19.18	179	2414163	52.06 ng	89
82)	1,3,5-Trinitrobenzene	19.10	213	819869	55.07 ng	99
83)	Hexachlorobenzene	19.22	284	2143618	42.33 ng	100
84)	Dimethoate	19.49	87	2482681	45.36 ng	99
85)	Beta-BHC	19.78	181	1288883	45.21 ng	99
86)	Pentachloronitrobenzene	19.80	295	410454	43.58 ng	99
87)	4-Aminobiphenyl	19.82	169	3095804	43.56 ng	99
88)	Pentachlorophenol	19.80	266	959140	45.58 ng	100
89)	Delta-BHC	19.89	181	1219477	42.83 ng	99
90)	Pronamide	20.05	173	3305651	44.00 ng	100
91)	Phenanthrene	20.30	178	9628383	41.51 ng	98
92)	Dinoseb	20.32	211	2030133	47.86 ng	100
93)	Disulfoton	20.33	88	4608903	43.31 ng	98
94)	Anthracene	20.44	178	9860614	41.30 ng	98
95)	Gamma-BHC	20.54	181	1154300	42.98 ng	98
96)	Carbazole	20.90	167	8893673	44.93 ng	99
97)	Methyl Parathion	21.28	263	1503255	46.70 ng	100

98)	Heptachlor	21.50	272	1015012	43.58	ng		99
99)	Di-n-butylphthalate	21.86	149	11104450	41.73	ng		98
100)	Aldrin	22.25	263	955823	42.81	ng		96
101)	Ethyl Parathion	22.26	291	1408584	43.61	ng		99
102)	Isodrin	22.84	193	1289127	44.12	ng		99
103)	Heptachlor Epoxide	22.99	353	700563	44.00	ng		99
104)	Fluoranthene	23.21	202	11068705	41.80	ng		98
106)	Pyrene	23.72	202	11399543	42.50	ng		98
107)	p,p'-DDE	23.98	246	2902387	44.21	ng		100
109)	Dieldrin	24.15	79	1989873	44.35	ng		100
110)	p-Dimethylaminoazobenzene	24.42	225	2835913	45.34	ng		100
111)	Chlorobenzilate	24.52	251	4110146	45.25	ng		99
112)	Endrin	24.53	263	504049	43.93	ng		99
113)	p,p'-DDD	24.70	235	4618275	42.51	ng		99
114)	Endrin Aldehyde	24.41	67	35066	41.75	ng	#	100
115)	Famphur	25.02	218	488413	46.97	ng		99
116)	Butylbenzylphthalate	25.16	149	5529502	44.16	ng		99
117)	Endosulfan Sulfate	25.31	235	4046622	46.68	ng		99
118)	2-Acetylaminofluorene	25.67	181	4289808	48.96	ng		99
119)	Endrin Ketone	26.11	227	7509535	45.32	ng		100
120)	Methoxychlor	26.11	227	7509535	45.32	ng		99
121)	Benz(a)anthracene	26.22	228	11613233	43.87	ng		99
122)	3,3'-Dichlorobenzidine	26.19	252	2386889	39.91	ng		100
123)	Bis(2-ethylhexyl)phthalate	26.28	149	7703595	41.02	ng		97
124)	Chrysene	26.29	228	10379783	42.97	ng		97
126)	Di-n-octylphthalate	27.45	149	11342817	36.74	ng		97
127)	7,12-Dimethylbenz(a)anthra	28.18	256	4780938	39.50	ng		99
128)	Benzo[b]fluoranthene	28.23	252	11334136	46.70	ng		98
129)	Benzo(k)fluoranthene	28.29	252	8703356	38.79	ng		95
130)	Benzo(a)pyrene	28.86	252	9191937	44.74	ng		99
131)	3-Methylcholanthrene	29.59	268	4525132	48.60	ng	#	84
132)	Indeno[1,2,3,cd]pyrene	31.49	276	7159553	45.81	ng		94
133)	Dibenz(a,h)anthracene	31.50	278	5930664	46.06	ng		96
134)	Benzo(g,h,i)perylene	32.21	276	6437101m	49.71	ng		

(#) = qualifier out of range (m) = manual integration
1C063026.D 1C630262.M Wed Jul 16 13:08:57 2003 TEST

Quantitation Report (QT Reviewed)

Data File : D:\BPARUCHU\DATA\1C070103\1C063036.D Vial: 35
Acq On : 1 Jul 2003 2:25 pm Operator: BP
Sample : 0305007-37 @ Ind. Harbor Inst : GCMS1
Misc : 0305007 10.1 g/10 mL/87.6 %S 6/12/03 P Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 15 9:42 2003 Quant Results File: 1C701261.RES

Quant Method : D:\BPARUCHU\METHODS\1C701261.M (RTE Integrator)
Title : CRL GCMS026 110 TCLs 03/20/2002
Last Update : Wed Jul 02 10:16:42 2003
Response via : Continuing Cal File: D:\BPARUCHU\DATA\1C070103\1C063034.D
DataAcq Meth : 1C701261

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.80	150	3796194	50.00	ng	0.00
25) Naphthalene-d8	11.86	136	8397077	50.00	ng	0.00
44) Acenaphthene-d10	16.37	164	5617347	50.00	ng	0.00
71) Phenanthrene-d10	20.24	188	9183417	50.00	ng	0.02
105) Chrysene-d12	26.23	240	10322908	50.00	ng	0.00
125) Perylene-d12	28.99	264	7098310	50.00	ng	0.01

System Monitoring Compounds						
5) 2-Fluorophenol	6.16	112	250512m	4.86	ng	0.04
Spiked Amount 50.000	Range 25 - 90		Recovery	= 9.72%#		
10) Phenol-d5	8.18	99	243112m	3.75	ng	0.07
Spiked Amount 50.000	Range 38 - 103		Recovery	= 7.50%#		
26) Nitrobenzene-d5	10.11	82	320680	5.02	ng	-0.02
Spiked Amount 50.000	Range 28 - 95		Recovery	= 10.04%#		
49) 2-Fluorobiphenyl	14.66	172	781631	6.11	ng	0.00
Spiked Amount 50.000	Range 46 - 95		Recovery	= 12.22%#		
75) 2,4,6-Tribromophenol	18.46	330	117349	6.79	ng	0.04
Spiked Amount 50.000	Range 47 - 146		Recovery	= 13.58%#		
108) Terphenyl-d14	24.10	244	1501687	8.30	ng	0.00
Spiked Amount 50.000	Range 50 - 144		Recovery	= 16.60%#		

Target Compounds						Qvalue
106) Pyrene	23.70	202	1411392	5.61	ng	97

(#) = qualifier out of range (m) = manual integration
1C063036.D 1C701261.M Wed Jul 16 13:05:20 2003 TEST

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5 CENTRAL REGIONAL LABORATORY
536 SOUTH CLARK STREET
CHICAGO, ILLINOIS 60605

Date: 7/16/03

Subject: Review of Region 5 Data for Indiana Harbor

From: Babu Paruchuri, Group Leader
Region 5 Central Regional Laboratory

To: Superfund, US EPA Region 5
77 West Jackson Boulevard
Chicago, IL 60604

Attached are Results for: Indiana Harbor

Analyses included in this report:

SVOA - PAHs

Draft

/ /

Data Management Coordinator and Date Received

Date Transmitted: ____/_____/_____

Please have the U.S. EPA Project Manager/Officer call the CRL Sample Coordinator at 3-7444 for any comments or questions.

Please sign and date this form below and return it with any comments to:

Sylvia Griffin
Data Management Coordinator
Region 5 Central Regional Laboratory
ML-10C

_____/_____/_____

Received by and Date

Comments:

Environmental Protection Agency Region 5
Central Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

WORK ORDER **Printed: 5/27/2003 8:18:46AM**

0305007

US EPA Region 5 Central Regional Laboratory

Client: **Superfund, US EPA Region 5** **Project Manager:** **Marilyn Jupp**
Project: **Indiana Harbor** **Project Number:** **[none]**

Report To:
Betty Lavis
Superfund, US EPA Region 5
77 West Jackson Boulevard
Chicago, IL 60604
Phone: (312) 886-7183
Fax: (312) 886-6171

Date Due: Jul-23-03 15:00 (60 day TAT)
Received By: William Sargent Date Received: May-22-03 14:08
Logged In By: William Sargent Date Logged In: May-22-03 16:44

Samples Received at:	°C
Labels	Yes
Seals Intact	Yes
Received on ice	No
Paperwork Included	Yes

Analysis	Due	TAT	Expires	Comments
0305007-01 SX67-3 [Soil] Sampled May-21-03 00:00 Central				**0-12**
SVOA - PAHs	Jul-23-03 12:00	60	Jun-04-03 00:00	
Metals full ICP (S)	Jul-23-03 12:00	60	Nov-17-03 00:00	
Solids, Dry Weight	Jul-23-03 12:00	60	May-28-03 00:00	
O&G by Soxtec	Jul-23-03 12:00	60	Jun-18-03 00:00	
pH Soils and wastes	Jul-23-03 12:00	60	May-21-03 00:28	
TOC Soil	Jul-23-03 12:00	60	Jun-18-03 00:00	
0305007-02 SX61-1 [Soil] Sampled May-21-03 00:00 Central				**0-12**
SVOA - PAHs	Jul-23-03 12:00	60	Jun-04-03 00:00	
Solids, Dry Weight	Jul-23-03 12:00	60	May-28-03 00:00	
Metals full ICP (S)	Jul-23-03 12:00	60	Nov-17-03 00:00	
O&G by Soxtec	Jul-23-03 12:00	60	Jun-18-03 00:00	
TOC Soil	Jul-23-03 12:00	60	Jun-18-03 00:00	
pH Soils and wastes	Jul-23-03 12:00	60	May-21-03 00:28	

0305007

US EPA Region 5 Central Regional Laboratory

Client: Superfund, US EPA Region 5
Project: Indiana Harbor
Project Manager: Marilyn Jupp
Project Number: [none]

Analysis	Due	TAT	Expires	Comments
0305007-03 DNS-2 [Soil] Sampled May-21-03 00:00 Central				**0-12**
SVOA - PAHs	Jul-23-03 12:00	60	Jun-04-03 00:00	
O&G by Soxtec	Jul-23-03 12:00	60	Jun-18-03 00:00	
Metals full ICP (S)	Jul-23-03 12:00	60	Nov-17-03 00:00	
Solids, Dry Weight	Jul-23-03 12:00	60	May-28-03 00:00	
pH Soils and wastes	Jul-23-03 12:00	60	May-21-03 00:28	
TOC Soil	Jul-23-03 12:00	60	Jun-18-03 00:00	
0305007-04 OP367-1 [Soil] Sampled May-21-03 00:00 Central				**0-12**
SVOA - PAHs	Jul-23-03 12:00	60	Jun-04-03 00:00	
O&G by Soxtec	Jul-23-03 12:00	60	Jun-18-03 00:00	
Metals full ICP (S)	Jul-23-03 12:00	60	Nov-17-03 00:00	
Solids, Dry Weight	Jul-23-03 12:00	60	May-28-03 00:00	
pH Soils and wastes	Jul-23-03 12:00	60	May-21-03 00:28	
TOC Soil	Jul-23-03 12:00	60	Jun-18-03 00:00	
0305007-05 SX67-2 [Soil] Sampled May-21-03 00:00 Central				**0-12**
SVOA - PAHs	Jul-23-03 12:00	60	Jun-04-03 00:00	
Solids, Dry Weight	Jul-23-03 12:00	60	May-28-03 00:00	
O&G by Soxtec	Jul-23-03 12:00	60	Jun-18-03 00:00	
Metals full ICP (S)	Jul-23-03 12:00	60	Nov-17-03 00:00	
TOC Soil	Jul-23-03 12:00	60	Jun-18-03 00:00	
pH Soils and wastes	Jul-23-03 12:00	60	May-21-03 00:28	
0305007-06 SX61-3 [Soil] Sampled May-21-03 00:00 Central				**0-12**
SVOA - PAHs	Jul-23-03 12:00	60	Jun-04-03 00:00	
Solids, Dry Weight	Jul-23-03 12:00	60	May-28-03 00:00	
O&G by Soxtec	Jul-23-03 12:00	60	Jun-18-03 00:00	
Metals full ICP (S)	Jul-23-03 12:00	60	Nov-17-03 00:00	
TOC Soil	Jul-23-03 12:00	60	Jun-18-03 00:00	
pH Soils and wastes	Jul-23-03 12:00	60	May-21-03 00:28	
0305007-07 DN182-2 [Soil] Sampled May-21-03 00:00 Central				**0-12**
SVOA - PAHs	Jul-23-03 12:00	60	Jun-04-03 00:00	
Solids, Dry Weight	Jul-23-03 12:00	60	May-28-03 00:00	
O&G by Soxtec	Jul-23-03 12:00	60	Jun-18-03 00:00	
Metals full ICP (S)	Jul-23-03 12:00	60	Nov-17-03 00:00	
TOC Soil	Jul-23-03 12:00	60	Jun-18-03 00:00	
pH Soils and wastes	Jul-23-03 12:00	60	May-21-03 00:28	

WORK ORDER

Printed: 5/27/2003 8:18:46AM

0305007

US EPA Region 5 Central Regional Laboratory

Client: Superfund, US EPA Region 5
Project: Indiana Harbor
Project Manager: Marilyn Jupp
Project Number: [none]

Analysis	Due	TAT	Expires	Comments
0305007-08 SV1-1 [Soil] Sampled May-21-03 00:00 Central				**0-12**
SVOA - PAHs	Jul-23-03 12:00	60	Jun-04-03 00:00	
Solids, Dry Weight	Jul-23-03 12:00	60	May-28-03 00:00	
O&G by Soxtec	Jul-23-03 12:00	60	Jun-18-03 00:00	
Metals full ICP (S)	Jul-23-03 12:00	60	Nov-17-03 00:00	
TOC Soil	Jul-23-03 12:00	60	Jun-18-03 00:00	
pH Soils and wastes	Jul-23-03 12:00	60	May-21-03 00:28	
0305007-09 DN182-1 [Soil] Sampled May-21-03 00:00 Central				**0-12**
SVOA - PAHs	Jul-23-03 12:00	60	Jun-04-03 00:00	
Solids, Dry Weight	Jul-23-03 12:00	60	May-28-03 00:00	
O&G by Soxtec	Jul-23-03 12:00	60	Jun-18-03 00:00	
Metals full ICP (S)	Jul-23-03 12:00	60	Nov-17-03 00:00	
TOC Soil	Jul-23-03 12:00	60	Jun-18-03 00:00	
pH Soils and wastes	Jul-23-03 12:00	60	May-21-03 00:28	
0305007-10 SV1-4 [Soil] Sampled May-21-03 00:00 Central				**0-12**
SVOA - PAHs	Jul-23-03 12:00	60	Jun-04-03 00:00	
Solids, Dry Weight	Jul-23-03 12:00	60	May-28-03 00:00	
O&G by Soxtec	Jul-23-03 12:00	60	Jun-18-03 00:00	
Metals full ICP (S)	Jul-23-03 12:00	60	Nov-17-03 00:00	
pH Soils and wastes	Jul-23-03 12:00	60	May-21-03 00:28	
TOC Soil	Jul-23-03 12:00	60	Jun-18-03 00:00	
0305007-11 SX67-1 [Soil] Sampled May-21-03 00:00 Central				**0-12**
SVOA - PAHs	Jul-23-03 12:00	60	Jun-04-03 00:00	
Solids, Dry Weight	Jul-23-03 12:00	60	May-28-03 00:00	
O&G by Soxtec	Jul-23-03 12:00	60	Jun-18-03 00:00	
Metals full ICP (S)	Jul-23-03 12:00	60	Nov-17-03 00:00	
pH Soils and wastes	Jul-23-03 12:00	60	May-21-03 00:28	
TOC Soil	Jul-23-03 12:00	60	Jun-18-03 00:00	
0305007-12 OP367-2 [Soil] Sampled May-21-03 00:00 Central				**0-12**
SVOA - PAHs	Jul-23-03 12:00	60	Jun-04-03 00:00	
Solids, Dry Weight	Jul-23-03 12:00	60	May-28-03 00:00	
O&G by Soxtec	Jul-23-03 12:00	60	Jun-18-03 00:00	
Metals full ICP (S)	Jul-23-03 12:00	60	Nov-17-03 00:00	
TOC Soil	Jul-23-03 12:00	60	Jun-18-03 00:00	
pH Soils and wastes	Jul-23-03 12:00	60	May-21-03 00:28	

0305007

US EPA Region 5 Central Regional Laboratory

Client: Superfund, US EPA Region 5
Project: Indiana Harbor
Project Manager: Marilyn Jupp
Project Number: [none]

Analysis	Due	TAT	Expires	Comments
0305007-13 NM6-2 [Soil] Sampled May-21-03 00:00 Central				**0-12**
SVOA - PAHs	Jul-23-03 12:00	60	Jun-04-03 00:00	
Solids, Dry Weight	Jul-23-03 12:00	60	May-28-03 00:00	
O&G by Soxtec	Jul-23-03 12:00	60	Jun-18-03 00:00	
Metals full ICP (S)	Jul-23-03 12:00	60	Nov-17-03 00:00	
TOC Soil	Jul-23-03 12:00	60	Jun-18-03 00:00	
pH Soils and wastes	Jul-23-03 12:00	60	May-21-03 00:28	
0305007-14 SV1-3 [Soil] Sampled May-21-03 00:00 Central				**0-12**
SVOA - PAHs	Jul-23-03 12:00	60	Jun-04-03 00:00	
Solids, Dry Weight	Jul-23-03 12:00	60	May-28-03 00:00	
O&G by Soxtec	Jul-23-03 12:00	60	Jun-18-03 00:00	
Metals full ICP (S)	Jul-23-03 12:00	60	Nov-17-03 00:00	
TOC Soil	Jul-23-03 12:00	60	Jun-18-03 00:00	
pH Soils and wastes	Jul-23-03 12:00	60	May-21-03 00:28	
0305007-15 SV1-2 [Soil] Sampled May-21-03 00:00 Central				**0-12**
SVOA - PAHs	Jul-23-03 12:00	60	Jun-04-03 00:00	
Solids, Dry Weight	Jul-23-03 12:00	60	May-28-03 00:00	
O&G by Soxtec	Jul-23-03 12:00	60	Jun-18-03 00:00	
Metals full ICP (S)	Jul-23-03 12:00	60	Nov-17-03 00:00	
TOC Soil	Jul-23-03 12:00	60	Jun-18-03 00:00	
pH Soils and wastes	Jul-23-03 12:00	60	May-21-03 00:28	
0305007-16 SR3-4 [Soil] Sampled May-22-03 00:00 Central				**0-12**
SVOA - PAHs	Jul-23-03 12:00	60	Jun-05-03 00:00	
Solids, Dry Weight	Jul-23-03 12:00	60	May-29-03 00:00	
Metals full ICP (S)	Jul-23-03 12:00	60	Nov-18-03 00:00	
O&G by Soxtec	Jul-23-03 12:00	60	Jun-19-03 00:00	
pH Soils and wastes	Jul-23-03 12:00	60	May-22-03 00:28	
TOC Soil	Jul-23-03 12:00	60	Jun-19-03 00:00	
0305007-17 SR1-2 [Soil] Sampled May-22-03 00:00 Central				**0-12**
SVOA - PAHs	Jul-23-03 12:00	60	Jun-05-03 00:00	
Metals full ICP (S)	Jul-23-03 12:00	60	Nov-18-03 00:00	
Solids, Dry Weight	Jul-23-03 12:00	60	May-29-03 00:00	
O&G by Soxtec	Jul-23-03 12:00	60	Jun-19-03 00:00	
pH Soils and wastes	Jul-23-03 12:00	60	May-22-03 00:28	
TOC Soil	Jul-23-03 12:00	60	Jun-19-03 00:00	

WORK ORDER

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0305007

US EPA Region 5 Central Regional Laboratory

Client: Superfund, US EPA Region 5
Project: Indiana Harbor
Project Manager: Marilyn Jupp
Project Number: [none]

Analysis	Due	TAT	Expires	Comments
0305007-18 OP367-4 [Soil] Sampled May-22-03 00:00 Central				**0-12**
SVOA - PAHs	Jul-23-03 12:00	60	Jun-05-03 00:00	
Metals full ICP (S)	Jul-23-03 12:00	60	Nov-18-03 00:00	
Solids, Dry Weight	Jul-23-03 12:00	60	May-29-03 00:00	
O&G by Soxtec	Jul-23-03 12:00	60	Jun-19-03 00:00	
pH Soils and wastes	Jul-23-03 12:00	60	May-22-03 00:28	
TOC Soil	Jul-23-03 12:00	60	Jun-19-03 00:00	
0305007-19 DN5-3 [Soil] Sampled May-22-03 00:00 Central				**0-12**
SVOA - PAHs	Jul-23-03 12:00	60	Jun-05-03 00:00	
Metals full ICP (S)	Jul-23-03 12:00	60	Nov-18-03 00:00	
Solids, Dry Weight	Jul-23-03 12:00	60	May-29-03 00:00	
O&G by Soxtec	Jul-23-03 12:00	60	Jun-19-03 00:00	
pH Soils and wastes	Jul-23-03 12:00	60	May-22-03 00:28	
TOC Soil	Jul-23-03 12:00	60	Jun-19-03 00:00	
0305007-20 SR5-6 [Soil] Sampled May-22-03 00:00 Central				**0-12**
SVOA - PAHs	Jul-23-03 12:00	60	Jun-05-03 00:00	
Metals full ICP (S)	Jul-23-03 12:00	60	Nov-18-03 00:00	
Solids, Dry Weight	Jul-23-03 12:00	60	May-29-03 00:00	
O&G by Soxtec	Jul-23-03 12:00	60	Jun-19-03 00:00	
pH Soils and wastes	Jul-23-03 12:00	60	May-22-03 00:28	
TOC Soil	Jul-23-03 12:00	60	Jun-19-03 00:00	
0305007-21 SX67-5 [Soil] Sampled May-22-03 00:00 Central				**0-12**
SVOA - PAHs	Jul-23-03 12:00	60	Jun-05-03 00:00	
Metals full ICP (S)	Jul-23-03 12:00	60	Nov-18-03 00:00	
Solids, Dry Weight	Jul-23-03 12:00	60	May-29-03 00:00	
O&G by Soxtec	Jul-23-03 12:00	60	Jun-19-03 00:00	
pH Soils and wastes	Jul-23-03 12:00	60	May-22-03 00:28	
TOC Soil	Jul-23-03 12:00	60	Jun-19-03 00:00	
0305007-22 SV1-5 [Soil] Sampled May-22-03 00:00 Central				**0-12**
SVOA - PAHs	Jul-23-03 12:00	60	Jun-05-03 00:00	
Solids, Dry Weight	Jul-23-03 12:00	60	May-29-03 00:00	
O&G by Soxtec	Jul-23-03 12:00	60	Jun-19-03 00:00	
Metals full ICP (S)	Jul-23-03 12:00	60	Nov-18-03 00:00	
pH Soils and wastes	Jul-23-03 12:00	60	May-22-03 00:28	
TOC Soil	Jul-23-03 12:00	60	Jun-19-03 00:00	

0305007

US EPA Region 5 Central Regional Laboratory

Client: Superfund, US EPA Region 5
Project: Indiana Harbor
Project Manager: Marilyn Jupp
Project Number: [none]

Analysis	Due	TAT	Expires	Comments
0305007-23 SRN 3-4 [Soil] Sampled May-22-03 00:00 Central				**0-12**
SVOA - PAHs	Jul-23-03 12:00	60	Jun-05-03 00:00	
Solids, Dry Weight	Jul-23-03 12:00	60	May-29-03 00:00	
O&G by Soxtec	Jul-23-03 12:00	60	Jun-19-03 00:00	
Metals full ICP (S)	Jul-23-03 12:00	60	Nov-18-03 00:00	
pH Soils and wastes	Jul-23-03 12:00	60	May-22-03 00:28	
TOC Soil	Jul-23-03 12:00	60	Jun-19-03 00:00	
0305007-24 SX61-4 [Soil] Sampled May-22-03 00:00 Central				**0-12**
SVOA - PAHs	Jul-23-03 12:00	60	Jun-05-03 00:00	
Solids, Dry Weight	Jul-23-03 12:00	60	May-29-03 00:00	
O&G by Soxtec	Jul-23-03 12:00	60	Jun-19-03 00:00	
Metals full ICP (S)	Jul-23-03 12:00	60	Nov-18-03 00:00	
pH Soils and wastes	Jul-23-03 12:00	60	May-22-03 00:28	
TOC Soil	Jul-23-03 12:00	60	Jun-19-03 00:00	
0305007-25 DN182-4 [Soil] Sampled May-22-03 00:00 Central				**0-12**
SVOA - PAHs	Jul-23-03 12:00	60	Jun-05-03 00:00	
Solids, Dry Weight	Jul-23-03 12:00	60	May-29-03 00:00	
O&G by Soxtec	Jul-23-03 12:00	60	Jun-19-03 00:00	
Metals full ICP (S)	Jul-23-03 12:00	60	Nov-18-03 00:00	
pH Soils and wastes	Jul-23-03 12:00	60	May-22-03 00:28	
TOC Soil	Jul-23-03 12:00	60	Jun-19-03 00:00	
0305007-26 SX67-4 [Soil] Sampled May-22-03 00:00 Central				**0-12**
SVOA - PAHs	Jul-23-03 12:00	60	Jun-05-03 00:00	
O&G by Soxtec	Jul-23-03 12:00	60	Jun-19-03 00:00	
Solids, Dry Weight	Jul-23-03 12:00	60	May-29-03 00:00	
Metals full ICP (S)	Jul-23-03 12:00	60	Nov-18-03 00:00	
pH Soils and wastes	Jul-23-03 12:00	60	May-22-03 00:28	
TOC Soil	Jul-23-03 12:00	60	Jun-19-03 00:00	
0305007-27 OP367-3 [Soil] Sampled May-22-03 00:00 Central				**0-12**
SVOA - PAHs	Jul-23-03 12:00	60	Jun-05-03 00:00	
O&G by Soxtec	Jul-23-03 12:00	60	Jun-19-03 00:00	
Solids, Dry Weight	Jul-23-03 12:00	60	May-29-03 00:00	
Metals full ICP (S)	Jul-23-03 12:00	60	Nov-18-03 00:00	
pH Soils and wastes	Jul-23-03 12:00	60	May-22-03 00:28	
TOC Soil	Jul-23-03 12:00	60	Jun-19-03 00:00	

0305007

US EPA Region 5 Central Regional Laboratory

Client: Superfund, US EPA Region 5
Project: Indiana Harbor
Project Manager: Marilyn Jupp
Project Number: [none]

Analysis	Due	TAT	Expires	Comments
0305007-28 SX61-6 [Soil] Sampled May-22-03 00:00 Central				**0-12**
SVOA - PAHs	Jul-23-03 12:00	60	Jun-05-03 00:00	
Solids, Dry Weight	Jul-23-03 12:00	60	May-29-03 00:00	
O&G by Soxtec	Jul-23-03 12:00	60	Jun-19-03 00:00	
Metals full ICP (S)	Jul-23-03 12:00	60	Nov-18-03 00:00	
pH Soils and wastes	Jul-23-03 12:00	60	May-22-03 00:28	
TOC Soil	Jul-23-03 12:00	60	Jun-19-03 00:00	
0305007-29 PHRAGMITES [Soil] Sampled May-22-03 00:00 Central				**0-12**
SVOA - PAHs	Jul-23-03 12:00	60	Jun-05-03 00:00	
Solids, Dry Weight	Jul-23-03 12:00	60	May-29-03 00:00	
pH Soils and wastes	Jul-23-03 12:00	60	May-22-03 00:28	
O&G by Soxtec	Jul-23-03 12:00	60	Jun-19-03 00:00	
Metals full ICP (S)	Jul-23-03 12:00	60	Nov-18-03 00:00	
TOC Soil	Jul-23-03 12:00	60	Jun-19-03 00:00	
0305007-30 SV1-6 [Soil] Sampled May-22-03 00:00 Central				**0-12**
SVOA - PAHs	Jul-23-03 12:00	60	Jun-05-03 00:00	
Solids, Dry Weight	Jul-23-03 12:00	60	May-29-03 00:00	
O&G by Soxtec	Jul-23-03 12:00	60	Jun-19-03 00:00	
Metals full ICP (S)	Jul-23-03 12:00	60	Nov-18-03 00:00	
pH Soils and wastes	Jul-23-03 12:00	60	May-22-03 00:28	
TOC Soil	Jul-23-03 12:00	60	Jun-19-03 00:00	
0305007-31 DN182-3 [Soil] Sampled May-22-03 00:00 Central				**0-12**
SVOA - PAHs	Jul-23-03 12:00	60	Jun-05-03 00:00	
Solids, Dry Weight	Jul-23-03 12:00	60	May-29-03 00:00	
Metals full ICP (S)	Jul-23-03 12:00	60	Nov-18-03 00:00	
O&G by Soxtec	Jul-23-03 12:00	60	Jun-19-03 00:00	
pH Soils and wastes	Jul-23-03 12:00	60	May-22-03 00:28	
TOC Soil	Jul-23-03 12:00	60	Jun-19-03 00:00	
0305007-32 SRN1-2 [Soil] Sampled May-22-03 00:00 Central				**0-12**
SVOA - PAHs	Jul-23-03 12:00	60	Jun-05-03 00:00	
Solids, Dry Weight	Jul-23-03 12:00	60	May-29-03 00:00	
O&G by Soxtec	Jul-23-03 12:00	60	Jun-19-03 00:00	
Metals full ICP (S)	Jul-23-03 12:00	60	Nov-18-03 00:00	
pH Soils and wastes	Jul-23-03 12:00	60	May-22-03 00:28	
TOC Soil	Jul-23-03 12:00	60	Jun-19-03 00:00	

0305007

US EPA Region 5 Central Regional Laboratory

Client: Superfund, US EPA Region 5
Project: Indiana Harbor
Project Manager: Marilyn Jupp
Project Number: [none]

Analysis	Due	TAT	Expires	Comments
0305007-33 SRN5-6 [Soil] Sampled May-22-03 00:00 Central				**0-12**
SVOA - PAHs	Jul-23-03 12:00	60	Jun-05-03 00:00	
Solids, Dry Weight	Jul-23-03 12:00	60	May-29-03 00:00	
O&G by Soxtec	Jul-23-03 12:00	60	Jun-19-03 00:00	
Metals full ICP (S)	Jul-23-03 12:00	60	Nov-18-03 00:00	
pH Soils and wastes	Jul-23-03 12:00	60	May-22-03 00:28	
TOC Soil	Jul-23-03 12:00	60	Jun-19-03 00:00	
0305007-34 SX61-5 [Soil] Sampled May-22-03 00:00 Central				**0-12**
SVOA - PAHs	Jul-23-03 12:00	60	Jun-05-03 00:00	
Solids, Dry Weight	Jul-23-03 12:00	60	May-29-03 00:00	
O&G by Soxtec	Jul-23-03 12:00	60	Jun-19-03 00:00	
Metals full ICP (S)	Jul-23-03 12:00	60	Nov-18-03 00:00	
pH Soils and wastes	Jul-23-03 12:00	60	May-22-03 00:28	
TOC Soil	Jul-23-03 12:00	60	Jun-19-03 00:00	
0305007-35 NM6-3 [Soil] Sampled May-22-03 00:00 Central				**0-12**
SVOA - PAHs	Jul-23-03 12:00	60	Jun-05-03 00:00	
Solids, Dry Weight	Jul-23-03 12:00	60	May-29-03 00:00	
O&G by Soxtec	Jul-23-03 12:00	60	Jun-19-03 00:00	
Metals full ICP (S)	Jul-23-03 12:00	60	Nov-18-03 00:00	
pH Soils and wastes	Jul-23-03 12:00	60	May-22-03 00:28	
TOC Soil	Jul-23-03 12:00	60	Jun-19-03 00:00	
0305007-36 SX67-6 [Soil] Sampled May-22-03 00:00 Central				**0-12**
SVOA - PAHs	Jul-23-03 12:00	60	Jun-05-03 00:00	
Solids, Dry Weight	Jul-23-03 12:00	60	May-29-03 00:00	
O&G by Soxtec	Jul-23-03 12:00	60	Jun-19-03 00:00	
Metals full ICP (S)	Jul-23-03 12:00	60	Nov-18-03 00:00	
pH Soils and wastes	Jul-23-03 12:00	60	May-22-03 00:28	
TOC Soil	Jul-23-03 12:00	60	Jun-19-03 00:00	
0305007-37 DN5-4 [Soil] Sampled May-22-03 00:00 Central				**0-12**
SVOA - PAHs	Jul-23-03 12:00	60	Jun-05-03 00:00	
Solids, Dry Weight	Jul-23-03 12:00	60	May-29-03 00:00	
O&G by Soxtec	Jul-23-03 12:00	60	Jun-19-03 00:00	
Metals full ICP (S)	Jul-23-03 12:00	60	Nov-18-03 00:00	
pH Soils and wastes	Jul-23-03 12:00	60	May-22-03 00:28	
TOC Soil	Jul-23-03 12:00	60	Jun-19-03 00:00	

WORK ORDER

Printed: 5/27/2003 8:18:46AM

0305007

US EPA Region 5 Central Regional Laboratory

Client: Superfund, US EPA Region 5
Project: Indiana Harbor
Project Manager: Marilyn Jupp
Project Number: [none]

Analysis	Due	TAT	Expires	Comments
0305007-38 DN5-1 [Soil] Sampled May-22-03 00:00 Central				**0-12**
SVOA - PAHs	Jul-23-03 12:00	60	Jun-05-03 00:00	
Solids, Dry Weight	Jul-23-03 12:00	60	May-29-03 00:00	
O&G by Soxtec	Jul-23-03 12:00	60	Jun-19-03 00:00	
Metals full ICP (S)	Jul-23-03 12:00	60	Nov-18-03 00:00	
pH Soils and wastes	Jul-23-03 12:00	60	May-22-03 00:28	
TOC Soil	Jul-23-03 12:00	60	Jun-19-03 00:00	
0305007-39 NM6-1 [Soil] Sampled May-22-03 00:00 Central				**0-12**
SVOA - PAHs	Jul-23-03 12:00	60	Jun-05-03 00:00	
Solids, Dry Weight	Jul-23-03 12:00	60	May-29-03 00:00	
O&G by Soxtec	Jul-23-03 12:00	60	Jun-19-03 00:00	
Metals full ICP (S)	Jul-23-03 12:00	60	Nov-18-03 00:00	
pH Soils and wastes	Jul-23-03 12:00	60	May-22-03 00:28	
TOC Soil	Jul-23-03 12:00	60	Jun-19-03 00:00	
0305007-40 SX61-2 [Soil] Sampled May-22-03 00:00 Central				**0-12**
SVOA - PAHs	Jul-23-03 12:00	60	Jun-05-03 00:00	
Solids, Dry Weight	Jul-23-03 12:00	60	May-29-03 00:00	
O&G by Soxtec	Jul-23-03 12:00	60	Jun-19-03 00:00	
Metals full ICP (S)	Jul-23-03 12:00	60	Nov-18-03 00:00	
pH Soils and wastes	Jul-23-03 12:00	60	May-22-03 00:28	
TOC Soil	Jul-23-03 12:00	60	Jun-19-03 00:00	

Reviewed By

Date

Environmental Protection Agency Region 5
Central Regional Laboratory
536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Indiana Harbor Project Number: [none] Project Manager: Betty Lavis	**Reported:** Jul-16-03 17:00

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
DRAFT: SX67-3	0305007-01	Soil	May-21-03 00:00	May-22-03 14:08
DRAFT: SX61-1	0305007-02	Soil	May-21-03 00:00	May-22-03 14:08
DRAFT: DNS-2	0305007-03	Soil	May-21-03 00:00	May-22-03 14:08
DRAFT: OP367-1	0305007-04	Soil	May-21-03 00:00	May-22-03 14:08
DRAFT: SX67-2	0305007-05	Soil	May-21-03 00:00	May-22-03 14:08
DRAFT: SX61-3	0305007-06	Soil	May-21-03 00:00	May-22-03 14:08
DRAFT: DN182-2	0305007-07	Soil	May-21-03 00:00	May-22-03 14:08
DRAFT: SV1-1	0305007-08	Soil	May-21-03 00:00	May-22-03 14:08
DRAFT: DN182-1	0305007-09	Soil	May-21-03 00:00	May-22-03 14:08
DRAFT: SV1-4	0305007-10	Soil	May-21-03 00:00	May-22-03 14:08
DRAFT: SX67-1	0305007-11	Soil	May-21-03 00:00	May-22-03 14:08
DRAFT: OP367-2	0305007-12	Soil	May-21-03 00:00	May-22-03 14:08
DRAFT: NM6-2	0305007-13	Soil	May-21-03 00:00	May-22-03 14:08
DRAFT: SV1-3	0305007-14	Soil	May-21-03 00:00	May-22-03 14:08
DRAFT: SV1-2	0305007-15	Soil	May-21-03 00:00	May-22-03 14:08
DRAFT: SR3-4	0305007-16	Soil	May-22-03 00:00	May-22-03 14:08
DRAFT: SR1-2	0305007-17	Soil	May-22-03 00:00	May-22-03 14:08
DRAFT: OP367-4	0305007-18	Soil	May-22-03 00:00	May-22-03 14:08
DRAFT: DN5-3	0305007-19	Soil	May-22-03 00:00	May-22-03 14:08
DRAFT: SR5-6	0305007-20	Soil	May-22-03 00:00	May-22-03 14:08
DRAFT: SX67-5	0305007-21	Soil	May-22-03 00:00	May-22-03 14:08
DRAFT: SV1-5	0305007-22	Soil	May-22-03 00:00	May-22-03 14:08
DRAFT: SRN 3-4	0305007-23	Soil	May-22-03 00:00	May-22-03 14:08
DRAFT: SX61-4	0305007-24	Soil	May-22-03 00:00	May-22-03 14:08
DRAFT: DN182-4	0305007-25	Soil	May-22-03 00:00	May-22-03 14:08
DRAFT: SX67-4	0305007-26	Soil	May-22-03 00:00	May-22-03 14:08
DRAFT: OP367-3	0305007-27	Soil	May-22-03 00:00	May-22-03 14:08
DRAFT: SX61-6	0305007-28	Soil	May-22-03 00:00	May-22-03 14:08

Babu Paruchuri, Group Leader

Environmental Protection Agency Region 5
Central Regional Laboratory
536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Indiana Harbor Project Number: [none] Project Manager: Betty Lavis	**Reported:** Jul-16-03 17:00

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
DRAFT: PHRAGMITES	0305007-29	Soil	May-22-03 00:00	May-22-03 14:08
DRAFT: SV1-6	0305007-30	Soil	May-22-03 00:00	May-22-03 14:08
DRAFT: DN182-3	0305007-31	Soil	May-22-03 00:00	May-22-03 14:08
DRAFT: SRN1-2	0305007-32	Soil	May-22-03 00:00	May-22-03 14:08
DRAFT: SRN5-6	0305007-33	Soil	May-22-03 00:00	May-22-03 14:08
DRAFT: SX61-5	0305007-34	Soil	May-22-03 00:00	May-22-03 14:08
DRAFT: NM6-3	0305007-35	Soil	May-22-03 00:00	May-22-03 14:08
DRAFT: SX67-6	0305007-36	Soil	May-22-03 00:00	May-22-03 14:08
DRAFT: DN5-4	0305007-37	Soil	May-22-03 00:00	May-22-03 14:08
DRAFT: DN5-1	0305007-38	Soil	May-22-03 00:00	May-22-03 14:08
DRAFT: NM6-1	0305007-39	Soil	May-22-03 00:00	May-22-03 14:08
DRAFT: SX61-2	0305007-40	Soil	May-22-03 00:00	May-22-03 14:08

Babu Paruchuri, Group Leader

Environmental Protection Agency Region 5
Central Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Indiana Harbor Project Number: [none] Project Manager: Betty Lavis	**Reported:** Jul-16-03 17:00

DRAFT: Semivolatiles by GC/MS
US EPA Region 5 Central Regional Laboratory

DRAFT: SX67-3 (0305007-01) Soil Sampled: May-21-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Naphthalene	U			33400	ug/kg dry	1	B305027	May-27-0	Jun-03-03
2-Methylnaphthalene	U			33400	"	"	"	"	"
Acenaphthylene	U			33400	"	"	"	"	"
Acenaphthene	U			33400	"	"	"	"	"
Dibenzofuran	U			33400	"	"	"	"	"
Fluorene	U			33400	"	"	"	"	"
Phenanthrene	U			33400	"	"	"	"	"
Anthracene	U			33400	"	"	"	"	"
Carbazole	U			33400	"	"	"	"	"
Fluoranthene	**34800**			33400	"	"	"	"	"
Pyrene	**136000**			33400	"	"	"	"	"
Chrysene	**90300**			33400	"	"	"	"	"
Benzo (a) anthracene	**40600**			33400	"	"	"	"	"
Benzo (b) fluoranthene	U			33400	"	"	"	"	"
Benzo (k) fluoranthene	U			33400	"	"	"	"	"
Benzo (a) pyrene	**54200**			33400	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	U			33400	"	"	"	"	"
Dibenz (a,h) anthracene	U			33400	"	"	"	"	"
Benzo (g,h,i) perylene	U			33400	"	"	"	"	"
Surrogate: Nitrobenzene-d5	27500			*82.1 %*	*38-104*		"	"	"
Surrogate: 2-Fluorobiphenyl	27900			*83.3 %*	*52.1-104*		"	"	"
Surrogate: Terphenyl-d14	23000			*68.7 %*	*62.9-126*		"	"	"

DRAFT: SX61-1 (0305007-02) Soil Sampled: May-21-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Naphthalene	U			23900	ug/kg dry	1	B305027	May-27-0	Jun-03-03
2-Methylnaphthalene	U			23900	"	"	"	"	"
Acenaphthylene	U			23900	"	"	"	"	"
Acenaphthene	U			23900	"	"	"	"	"
Dibenzofuran	U			23900	"	"	"	"	"
Fluorene	U			23900	"	"	"	"	"
Phenanthrene	U			23900	"	"	"	"	"
Anthracene	U			23900	"	"	"	"	"
Carbazole	U			23900	"	"	"	"	"

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Superfund, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Indiana Harbor Project Number: [none] Project Manager: Betty Lavis	**Reported:** Jul-16-03 17:00

DRAFT: Semivolatiles by GC/MS
US EPA Region 5 Central Regional Laboratory

DRAFT: SX61-1 (0305007-02) Soil Sampled: May-21-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Fluoranthene	**67900**			23900	ug/kg dry	1	B305027	May-27-0	Jun-03-03
Pyrene	**177000**			23900	"	"	"	"	"
Chrysene	**170000**			23900	"	"	"	"	"
Benzo (a) anthracene	**70600**			23900	"	"	"	"	"
Benzo (b) fluoranthene	**34200**			23900	"	"	"	"	"
Benzo (k) fluoranthene	**U**			23900	"	"	"	"	"
Benzo (a) pyrene	**79700**			23900	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	**U**			23900	"	"	"	"	"
Dibenz (a,h) anthracene	**U**			23900	"	"	"	"	"
Benzo (g,h,i) perylene	**25000**			23900	"	"	"	"	"
Surrogate: Nitrobenzene-d5	22000			*92.1 %*	*38-104*		"	"	"
Surrogate: 2-Fluorobiphenyl	23900			*100 %*	*52.1-104*		"	"	"
Surrogate: Terphenyl-d14	17100			*71.5 %*	*62.9-126*		"	"	"

DRAFT: DNS-2 (0305007-03) Soil Sampled: May-21-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Naphthalene	**U**			25400	ug/kg dry	1	B305027	May-27-0	Jun-03-03
2-Methylnaphthalene	**U**			25400	"	"	"	"	"
Acenaphthylene	**U**			25400	"	"	"	"	"
Acenaphthene	**U**			25400	"	"	"	"	"
Dibenzofuran	**U**			25400	"	"	"	"	"
Fluorene	**U**			25400	"	"	"	"	"
Phenanthrene	**U**			25400	"	"	"	"	"
Anthracene	**U**			25400	"	"	"	"	"
Carbazole	**U**			25400	"	"	"	"	"
Fluoranthene	**52800**			25400	"	"	"	"	"
Pyrene	**142000**			25400	"	"	"	"	"
Chrysene	**111000**			25400	"	"	"	"	"
Benzo (a) anthracene	**47600**			25400	"	"	"	"	"
Benzo (b) fluoranthene	**29600**			25400	"	"	"	"	"
Benzo (k) fluoranthene	**U**			25400	"	"	"	"	"
Benzo (a) pyrene	**48800**			25400	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	**U**			25400	"	"	"	"	"
Dibenz (a,h) anthracene	**U**			25400	"	"	"	"	"

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Superfund, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Indiana Harbor Project Number: [none] Project Manager: Betty Lavis	**Reported:** Jul-16-03 17:00

DRAFT: Semivolatiles by GC/MS
US EPA Region 5 Central Regional Laboratory

DRAFT: DNS-2 (0305007-03) Soil Sampled: May-21-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Benzo (g,h,i) perylene	**U**			25400	ug/kg dry	1	B305027	May-27-0	Jun-03-03
Surrogate: Nitrobenzene-d5	20800			*81.6 %*	*38-104*		"	"	"
Surrogate: 2-Fluorobiphenyl	21500			*84.3 %*	*52.1-104*		"	"	"
Surrogate: Terphenyl-d14	16900			*66.3 %*	*62.9-126*		"	"	"

DRAFT: OP367-1 (0305007-04) Soil Sampled: May-21-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Naphthalene	**U**			8230	ug/kg dry	1	B305027	May-27-0	Jun-03-03
2-Methylnaphthalene	**U**			8230	"	"	"	"	"
Acenaphthylene	**U**			8230	"	"	"	"	"
Acenaphthene	**U**			8230	"	"	"	"	"
Dibenzofuran	**U**			8230	"	"	"	"	"
Fluorene	**U**			8230	"	"	"	"	"
Phenanthrene	**U**			8230	"	"	"	"	"
Anthracene	**U**			8230	"	"	"	"	"
Carbazole	**U**			8230	"	"	"	"	"
Fluoranthene	**30200**			8230	"	"	"	"	"
Pyrene	**75700**			8230	"	"	"	"	"
Chrysene	**85900**			8230	"	"	"	"	"
Benzo (a) anthracene	**33600**			8230	"	"	"	"	"
Benzo (b) fluoranthene	**22800**			8230	"	"	"	"	"
Benzo (k) fluoranthene	**U**			8230	"	"	"	"	"
Benzo (a) pyrene	**44300**			8230	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	**U**			8230	"	"	"	"	"
Dibenz (a,h) anthracene	**U**			8230	"	"	"	"	"
Benzo (g,h,i) perylene	**12800**			8230	"	"	"	"	"
Surrogate: Nitrobenzene-d5	6560			*79.6 %*	*38-104*		"	"	"
Surrogate: 2-Fluorobiphenyl	6950			*84.3 %*	*52.1-104*		"	"	"
Surrogate: Terphenyl-d14	5120			*62.1 %*	*62.9-126*		"	"	"

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Superfund, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Indiana Harbor Project Number: [none] Project Manager: Betty Lavis	**Reported:** Jul-16-03 17:00

DRAFT: Semivolatiles by GC/MS
US EPA Region 5 Central Regional Laboratory

DRAFT: SX67-2 (0305007-05) Soil Sampled: May-21-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Naphthalene	**U**			8700	ug/kg dry	1	B305027	May-27-0	Jun-03-03
2-Methylnaphthalene	**U**			8700	"	"	"	"	"
Acenaphthylene	**U**			8700	"	"	"	"	"
Acenaphthene	**U**			8700	"	"	"	"	"
Dibenzofuran	**U**			8700	"	"	"	"	"
Fluorene	**U**			8700	"	"	"	"	"
Phenanthrene	**U**			8700	"	"	"	"	"
Anthracene	**U**			8700	"	"	"	"	"
Carbazole	**U**			8700	"	"	"	"	"
Fluoranthene	**20600**			8700	"	"	"	"	"
Pyrene	**55900**			8700	"	"	"	"	"
Chrysene	**53500**			8700	"	"	"	"	"
Benzo (a) anthracene	**20900**			8700	"	"	"	"	"
Benzo (b) fluoranthene	**12600**			8700	"	"	"	"	"
Benzo (k) fluoranthene	**U**			8700	"	"	"	"	"
Benzo (a) pyrene	**24100**			8700	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	**U**			8700	"	"	"	"	"
Dibenz (a,h) anthracene	**U**			8700	"	"	"	"	"
Benzo (g,h,i) perylene	**8730**			8700	"	"	"	"	"
Surrogate: Nitrobenzene-d5	6850			*78.6 %*	*38-104*		"	"	"
Surrogate: 2-Fluorobiphenyl	7320			*84.0 %*	*52.1-104*		"	"	"
Surrogate: Terphenyl-d14	5350			*61.4 %*	*62.9-126*		"	"	"

DRAFT: SX61-3 (0305007-06) Soil Sampled: May-21-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Naphthalene	**U**			16200	ug/kg dry	1	B305027	May-27-0	Jun-03-03
2-Methylnaphthalene	**U**			16200	"	"	"	"	"
Acenaphthylene	**U**			16200	"	"	"	"	"
Acenaphthene	**U**			16200	"	"	"	"	"
Dibenzofuran	**U**			16200	"	"	"	"	"
Fluorene	**16300**			16200	"	"	"	"	"
Phenanthrene	**U**			16200	"	"	"	"	"
Anthracene	**U**			16200	"	"	"	"	"
Carbazole	**U**			16200	"	"	"	"	"

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Superfund, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Indiana Harbor Project Number: [none] Project Manager: Betty Lavis	**Reported:** Jul-16-03 17:00

DRAFT: Semivolatiles by GC/MS
US EPA Region 5 Central Regional Laboratory

DRAFT: SX61-3 (0305007-06) Soil Sampled: May-21-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Fluoranthene	**63300**			16200	ug/kg dry	1	B305027	May-27-0	Jun-03-03
Pyrene	**169000**			16200	"	"	"	"	"
Chrysene	**163000**			16200	"	"	"	"	"
Benzo (a) anthracene	**63600**			16200	"	"	"	"	"
Benzo (b) fluoranthene	**38800**			16200	"	"	"	"	"
Benzo (k) fluoranthene	**U**			16200	"	"	"	"	"
Benzo (a) pyrene	**72800**			16200	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	**U**			16200	"	"	"	"	"
Dibenz (a,h) anthracene	**U**			16200	"	"	"	"	"
Benzo (g,h,i) perylene	**19300**			16200	"	"	"	"	"
Surrogate: Nitrobenzene-d5	12800			*79.0 %*	*38-104*		"	"	"
Surrogate: 2-Fluorobiphenyl	15900			*98.1 %*	*52.1-104*		"	"	"
Surrogate: Terphenyl-d14	12800			*79.0 %*	*62.9-126*		"	"	"

DRAFT: DN182-2 (0305007-07) Soil Sampled: May-21-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Naphthalene	**U**			8640	ug/kg dry	1	B305027	May-27-0	Jun-03-03
2-Methylnaphthalene	**U**			8640	"	"	"	"	"
Acenaphthylene	**U**			8640	"	"	"	"	"
Acenaphthene	**U**			8640	"	"	"	"	"
Dibenzofuran	**U**			8640	"	"	"	"	"
Fluorene	**U**			8640	"	"	"	"	"
Phenanthrene	**U**			8640	"	"	"	"	"
Anthracene	**U**			8640	"	"	"	"	"
Carbazole	**U**			8640	"	"	"	"	"
Fluoranthene	**10200**			8640	"	"	"	"	"
Pyrene	**47000**			8640	"	"	"	"	"
Chrysene	**41800**			8640	"	"	"	"	"
Benzo (a) anthracene	**16100**			8640	"	"	"	"	"
Benzo (b) fluoranthene	**17400**			8640	"	"	"	"	"
Benzo (k) fluoranthene	**U**			8640	"	"	"	"	"
Benzo (a) pyrene	**33400**			8640	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	**U**			8640	"	"	"	"	"
Dibenz (a,h) anthracene	**U**			8640	"	"	"	"	"

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Superfund, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Indiana Harbor Project Number: [none] Project Manager: Betty Lavis	**Reported:** Jul-16-03 17:00

DRAFT: Semivolatiles by GC/MS
US EPA Region 5 Central Regional Laboratory

DRAFT: DN182-2 (0305007-07) Soil Sampled: May-21-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Benzo (g,h,i) perylene	**12700**			8640	ug/kg dry	1	B305027	May-27-0	Jun-03-03
Surrogate: Nitrobenzene-d5	6880			*79.5 %*	*38-104*		"	"	"
Surrogate: 2-Fluorobiphenyl	7130			*82.4 %*	*52.1-104*		"	"	"
Surrogate: Terphenyl-d14	7330			*84.7 %*	*62.9-126*		"	"	"

DRAFT: SV1-1 (0305007-08) Soil Sampled: May-21-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Naphthalene	**U**			30800	ug/kg dry	1	B305027	May-27-0	Jun-11-03
2-Methylnaphthalene	**U**			30800	"	"	"	"	"
Acenaphthylene	**U**			30800	"	"	"	"	"
Acenaphthene	**U**			30800	"	"	"	"	"
Dibenzofuran	**U**			30800	"	"	"	"	"
Fluorene	**U**			30800	"	"	"	"	"
Phenanthrene	**U**			30800	"	"	"	"	"
Anthracene	**U**			30800	"	"	"	"	"
Carbazole	**U**			30800	"	"	"	"	"
Fluoranthene	**93200**			30800	"	"	"	"	"
Pyrene	**241000**			30800	"	"	"	"	"
Chrysene	**206000**			30800	"	"	"	"	"
Benzo (a) anthracene	**94600**			30800	"	"	"	"	"
Benzo (b) fluoranthene	**55900**			30800	"	"	"	"	"
Benzo (k) fluoranthene	**U**			30800	"	"	"	"	"
Benzo (a) pyrene	**102000**			30800	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	**U**			30800	"	"	"	"	"
Dibenz (a,h) anthracene	**U**			30800	"	"	"	"	"
Benzo (g,h,i) perylene	**50400**	J		30800	"	"	"	"	"
Surrogate: Nitrobenzene-d5	32800			*106 %*	*38-104*		"	"	"
Surrogate: 2-Fluorobiphenyl	30500			*99.0 %*	*52.1-104*		"	"	"
Surrogate: Terphenyl-d14	31500			*102 %*	*62.9-126*		"	"	"

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Superfund, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Indiana Harbor Project Number: [none] Project Manager: Betty Lavis	**Reported:** Jul-16-03 17:00

DRAFT: Semivolatiles by GC/MS
US EPA Region 5 Central Regional Laboratory

DRAFT: DN182-1 (0305007-09) Soil Sampled: May-21-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Naphthalene	U			8560	ug/kg dry	1	B305027	May-27-0	Jun-11-03
2-Methylnaphthalene	U			8560	"	"	"	"	"
Acenaphthylene	U			8560	"	"	"	"	"
Acenaphthene	U			8560	"	"	"	"	"
Dibenzofuran	U			8560	"	"	"	"	"
Fluorene	U			8560	"	"	"	"	"
Phenanthrene	U			8560	"	"	"	"	"
Anthracene	U			8560	"	"	"	"	"
Carbazole	U			8560	"	"	"	"	"
Fluoranthene	20500			8560	"	"	"	"	"
Pyrene	74200			8560	"	"	"	"	"
Chrysene	72200			8560	"	"	"	"	"
Benzo (a) anthracene	30100			8560	"	"	"	"	"
Benzo (b) fluoranthene	24400			8560	"	"	"	"	"
Benzo (k) fluoranthene	U			8560	"	"	"	"	"
Benzo (a) pyrene	46000			8560	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	U			8560	"	"	"	"	"
Dibenz (a,h) anthracene	U			8560	"	"	"	"	"
Benzo (g,h,i) perylene	20300	J		8560	"	"	"	"	"
Surrogate: Nitrobenzene-d5	7580			*88.4 %*	*38-104*		"	"	"
Surrogate: 2-Fluorobiphenyl	7170			*83.7 %*	*52.1-104*		"	"	"
Surrogate: Terphenyl-d14	9280			*108 %*	*62.9-126*		"	"	"

DRAFT: SV1-4 (0305007-10) Soil Sampled: May-21-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Naphthalene	U			28600	ug/kg dry	1	B305027	May-27-0	Jun-11-03
2-Methylnaphthalene	U			28600	"	"	"	"	"
Acenaphthylene	U			28600	"	"	"	"	"
Acenaphthene	U			28600	"	"	"	"	"
Dibenzofuran	U			28600	"	"	"	"	"
Fluorene	U			28600	"	"	"	"	"
Phenanthrene	U			28600	"	"	"	"	"
Anthracene	U			28600	"	"	"	"	"
Carbazole	U			28600	"	"	"	"	"

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Superfund, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Indiana Harbor Project Number: [none] Project Manager: Betty Lavis	**Reported:** Jul-16-03 17:00

DRAFT: Semivolatiles by GC/MS
US EPA Region 5 Central Regional Laboratory

DRAFT: SV1-4 (0305007-10) Soil Sampled: May-21-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Fluoranthene	**72900**			28600	ug/kg dry	1	B305027	May-27-0	Jun-11-03
Pyrene	**197000**			28600	"	"	"	"	"
Chrysene	**161000**			28600	"	"	"	"	"
Benzo (a) anthracene	**61400**			28600	"	"	"	"	"
Benzo (b) fluoranthene	**54000**			28600	"	"	"	"	"
Benzo (k) fluoranthene	**U**			28600	"	"	"	"	"
Benzo (a) pyrene	**89000**			28600	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	**U**			28600	"	"	"	"	"
Dibenz (a,h) anthracene	**U**			28600	"	"	"	"	"
Benzo (g,h,i) perylene	**43900**	J		28600	"	"	"	"	"
Surrogate: Nitrobenzene-d5	28100			*98.3 %*	*38-104*		"	"	"
Surrogate: 2-Fluorobiphenyl	27000			*94.4 %*	*52.1-104*		"	"	"
Surrogate: Terphenyl-d14	27500			*96.2 %*	*62.9-126*		"	"	"

DRAFT: SX67-1 (0305007-11) Soil Sampled: May-21-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Naphthalene	**U**			20100	ug/kg dry	1	B305027	May-27-0	Jun-12-03
2-Methylnaphthalene	**U**			20100	"	"	"	"	"
Acenaphthylene	**U**			20100	"	"	"	"	"
Acenaphthene	**U**			20100	"	"	"	"	"
Dibenzofuran	**U**			20100	"	"	"	"	"
Fluorene	**20400**			20100	"	"	"	"	"
Phenanthrene	**53100**			20100	"	"	"	"	"
Anthracene	**U**			20100	"	"	"	"	"
Carbazole	**U**			20100	"	"	"	"	"
Fluoranthene	**64600**			20100	"	"	"	"	"
Pyrene	**192000**			20100	"	"	"	"	"
Chrysene	**158000**			20100	"	"	"	"	"
Benzo (a) anthracene	**58300**			20100	"	"	"	"	"
Benzo (b) fluoranthene	**44500**			20100	"	"	"	"	"
Benzo (k) fluoranthene	**U**			20100	"	"	"	"	"
Benzo (a) pyrene	**76000**			20100	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	**U**			20100	"	"	"	"	"
Dibenz (a,h) anthracene	**U**			20100	"	"	"	"	"

Environmental Protection Agency Region 5
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Superfund, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Indiana Harbor Project Number: [none] Project Manager: Betty Lavis	**Reported:** Jul-16-03 17:00

DRAFT: Semivolatiles by GC/MS
US EPA Region 5 Central Regional Laboratory

DRAFT: SX67-1 (0305007-11) Soil Sampled: May-21-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Benzo (g,h,i) perylene	**36900**	J		20100	ug/kg dry	1	B305027	May-27-0	Jun-12-03
Surrogate: Nitrobenzene-d5	19300			*96.0 %*	*38-104*		"	"	"
Surrogate: 2-Fluorobiphenyl	19400			*96.5 %*	*52.1-104*		"	"	"
Surrogate: Terphenyl-d14	20600			*102 %*	*62.9-126*		"	"	"

DRAFT: OP367-2 (0305007-12) Soil Sampled: May-21-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Naphthalene	**U**			8790	ug/kg dry	1	B305027	May-27-0	Jun-12-03
2-Methylnaphthalene	**U**			8790	"	"	"	"	"
Acenaphthylene	**U**			8790	"	"	"	"	"
Acenaphthene	**U**			8790	"	"	"	"	"
Dibenzofuran	**U**			8790	"	"	"	"	"
Fluorene	**U**			8790	"	"	"	"	"
Phenanthrene	**U**			8790	"	"	"	"	"
Anthracene	**U**			8790	"	"	"	"	"
Carbazole	**U**			8790	"	"	"	"	"
Fluoranthene	**17900**			8790	"	"	"	"	"
Pyrene	**57500**			8790	"	"	"	"	"
Chrysene	**60200**			8790	"	"	"	"	"
Benzo (a) anthracene	**22300**			8790	"	"	"	"	"
Benzo (b) fluoranthene	**20000**			8790	"	"	"	"	"
Benzo (k) fluoranthene	**U**			8790	"	"	"	"	"
Benzo (a) pyrene	**38100**			8790	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	**U**			8790	"	"	"	"	"
Dibenz (a,h) anthracene	**U**			8790	"	"	"	"	"
Benzo (g,h,i) perylene	**14600**	J		8790	"	"	"	"	"
Surrogate: Nitrobenzene-d5	7850			*89.2 %*	*38-104*		"	"	"
Surrogate: 2-Fluorobiphenyl	8090			*91.9 %*	*52.1-104*		"	"	"
Surrogate: Terphenyl-d14	7340			*83.4 %*	*62.9-126*		"	"	"

Babu Paruchuri, Group Leader

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Superfund, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Indiana Harbor Project Number: [none] Project Manager: Betty Lavis	**Reported:** Jul-16-03 17:00

DRAFT: Semivolatiles by GC/MS
US EPA Region 5 Central Regional Laboratory

DRAFT: NM6-2 (0305007-13) Soil Sampled: May-21-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Naphthalene	**U**			37200	ug/kg dry	1	B305027	May-27-0	Jun-12-03
2-Methylnaphthalene	**U**			37200	"	"	"	"	"
Acenaphthylene	**U**			37200	"	"	"	"	"
Acenaphthene	**U**			37200	"	"	"	"	"
Dibenzofuran	**U**			37200	"	"	"	"	"
Fluorene	**U**			37200	"	"	"	"	"
Phenanthrene	**U**			37200	"	"	"	"	"
Anthracene	**U**			37200	"	"	"	"	"
Carbazole	**U**			37200	"	"	"	"	"
Fluoranthene	**86600**			37200	"	"	"	"	"
Pyrene	**276000**			37200	"	"	"	"	"
Chrysene	**217000**			37200	"	"	"	"	"
Benzo (a) anthracene	**93200**			37200	"	"	"	"	"
Benzo (b) fluoranthene	**53400**			37200	"	"	"	"	"
Benzo (k) fluoranthene	**U**			37200	"	"	"	"	"
Benzo (a) pyrene	**104000**			37200	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	**U**			37200	"	"	"	"	"
Dibenz (a,h) anthracene	**U**			37200	"	"	"	"	"
Benzo (g,h,i) perylene	**46100**	J		37200	"	"	"	"	"
Surrogate: Nitrobenzene-d5	29400			*79.0 %*	*38-104*		"	"	"
Surrogate: 2-Fluorobiphenyl	35400			*95.2 %*	*52.1-104*		"	"	"
Surrogate: Terphenyl-d14	38000			*102 %*	*62.9-126*		"	"	"

DRAFT: SV1-3 (0305007-14) Soil Sampled: May-21-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Naphthalene	**U**			33000	ug/kg dry	1	B305027	May-27-0	Jun-12-03
2-Methylnaphthalene	**U**			33000	"	"	"	"	"
Acenaphthylene	**U**			33000	"	"	"	"	"
Acenaphthene	**U**			33000	"	"	"	"	"
Dibenzofuran	**U**			33000	"	"	"	"	"
Fluorene	**U**			33000	"	"	"	"	"
Phenanthrene	**U**			33000	"	"	"	"	"
Anthracene	**U**			33000	"	"	"	"	"
Carbazole	**U**			33000	"	"	"	"	"

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Superfund, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Indiana Harbor Project Number: [none] Project Manager: Betty Lavis	**Reported:** Jul-16-03 17:00

DRAFT: Semivolatiles by GC/MS
US EPA Region 5 Central Regional Laboratory

DRAFT: SV1-3 (0305007-14) Soil Sampled: May-21-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Fluoranthene	**80400**			33000	ug/kg dry	1	B305027	May-27-0	Jun-12-03
Pyrene	**231000**			33000	"	"	"	"	"
Chrysene	**193000**			33000	"	"	"	"	"
Benzo (a) anthracene	**68600**			33000	"	"	"	"	"
Benzo (b) fluoranthene	**56200**			33000	"	"	"	"	"
Benzo (k) fluoranthene	**U**			33000	"	"	"	"	"
Benzo (a) pyrene	**95000**			33000	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	**U**			33000	"	"	"	"	"
Dibenz (a,h) anthracene	**U**			33000	"	"	"	"	"
Benzo (g,h,i) perylene	**41500**	J		33000	"	"	"	"	"
Surrogate: Nitrobenzene-d5	27900			*84.5 %*	*38-104*		"	"	"
Surrogate: 2-Fluorobiphenyl	28800			*87.3 %*	*52.1-104*		"	"	"
Surrogate: Terphenyl-d14	36100			*109 %*	*62.9-126*		"	"	"

DRAFT: SV1-2 (0305007-15) Soil Sampled: May-21-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Naphthalene	**U**			13300	ug/kg dry	1	B305027	May-27-0	Jun-12-03
2-Methylnaphthalene	**U**			13300	"	"	"	"	"
Acenaphthylene	**U**			13300	"	"	"	"	"
Acenaphthene	**U**			13300	"	"	"	"	"
Dibenzofuran	**U**			13300	"	"	"	"	"
Fluorene	**U**			13300	"	"	"	"	"
Phenanthrene	**U**			13300	"	"	"	"	"
Anthracene	**U**			13300	"	"	"	"	"
Carbazole	**U**			13300	"	"	"	"	"
Fluoranthene	**36600**			13300	"	"	"	"	"
Pyrene	**110000**			13300	"	"	"	"	"
Chrysene	**96500**			13300	"	"	"	"	"
Benzo (a) anthracene	**42200**			13300	"	"	"	"	"
Benzo (b) fluoranthene	**26100**			13300	"	"	"	"	"
Benzo (k) fluoranthene	**U**			13300	"	"	"	"	"
Benzo (a) pyrene	**46100**			13300	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	**U**			13300	"	"	"	"	"
Dibenz (a,h) anthracene	**U**			13300	"	"	"	"	"

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Superfund, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Indiana Harbor Project Number: [none] Project Manager: Betty Lavis	**Reported:** Jul-16-03 17:00

DRAFT: Semivolatiles by GC/MS
US EPA Region 5 Central Regional Laboratory

DRAFT: SV1-2 (0305007-15) Soil Sampled: May-21-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Benzo (g,h,i) perylene	**22400**	J		13300	ug/kg dry	1	B305027	May-27-0	Jun-12-03
Surrogate: Nitrobenzene-d5	12900			*97.0 %*	*38-104*		"	"	"
Surrogate: 2-Fluorobiphenyl	13300			*100 %*	*52.1-104*		"	"	"
Surrogate: Terphenyl-d14	12600			*94.7 %*	*62.9-126*		"	"	"

DRAFT: SR3-4 (0305007-16) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Naphthalene	**U**			29300	ug/kg dry	1	B305030	May-28-0	Jun-12-03
2-Methylnaphthalene	**U**			29300	"	"	"	"	"
Acenaphthylene	**U**			29300	"	"	"	"	"
Acenaphthene	**U**			29300	"	"	"	"	"
Dibenzofuran	**U**			29300	"	"	"	"	"
Fluorene	**U**			29300	"	"	"	"	"
Phenanthrene	**U**			29300	"	"	"	"	"
Anthracene	**U**			29300	"	"	"	"	"
Carbazole	**U**			29300	"	"	"	"	"
Fluoranthene	**68000**			29300	"	"	"	"	"
Pyrene	**364000**			29300	"	"	"	"	"
Chrysene	**192000**			29300	"	"	"	"	"
Benzo (a) anthracene	**83800**			29300	"	"	"	"	"
Benzo (b) fluoranthene	**82300**			29300	"	"	"	"	"
Benzo (k) fluoranthene	**U**			29300	"	"	"	"	"
Benzo (a) pyrene	**143000**			29300	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	**U**			29300	"	"	"	"	"
Dibenz (a,h) anthracene	**U**			29300	"	"	"	"	"
Benzo (g,h,i) perylene	**55900**	J		29300	"	"	"	"	"
Surrogate: Nitrobenzene-d5	26900			*91.8 %*	*38-104*		"	"	"
Surrogate: 2-Fluorobiphenyl	27800			*94.9 %*	*52.1-104*		"	"	"
Surrogate: Terphenyl-d14	31300			*107 %*	*62.9-126*		"	"	"

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Superfund, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Indiana Harbor Project Number: [none] Project Manager: Betty Lavis	**Reported:** Jul-16-03 17:00

DRAFT: Semivolatiles by GC/MS
US EPA Region 5 Central Regional Laboratory

DRAFT: SR1-2 (0305007-17) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Naphthalene	U			27800	ug/kg dry	1	B305030	May-28-0	Jun-12-03
2-Methylnaphthalene	U			27800	"	"	"	"	"
Acenaphthylene	U			27800	"	"	"	"	"
Acenaphthene	U			27800	"	"	"	"	"
Dibenzofuran	U			27800	"	"	"	"	"
Fluorene	U			27800	"	"	"	"	"
Phenanthrene	U			27800	"	"	"	"	"
Anthracene	U			27800	"	"	"	"	"
Carbazole	U			27800	"	"	"	"	"
Fluoranthene	U			27800	"	"	"	"	"
Pyrene	**60800**			27800	"	"	"	"	"
Chrysene	**32200**			27800	"	"	"	"	"
Benzo (a) anthracene	U			27800	"	"	"	"	"
Benzo (b) fluoranthene	U			27800	"	"	"	"	"
Benzo (k) fluoranthene	U			27800	"	"	"	"	"
Benzo (a) pyrene	U			27800	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	U			27800	"	"	"	"	"
Dibenz (a,h) anthracene	U			27800	"	"	"	"	"
Benzo (g,h,i) perylene	U			27800	"	"	"	"	"
Surrogate: Nitrobenzene-d5	24600			*88.5 %*	*38-104*		"	"	"
Surrogate: 2-Fluorobiphenyl	22600			*81.3 %*	*52.1-104*		"	"	"
Surrogate: Terphenyl-d14	24000			*86.3 %*	*62.9-126*		"	"	"

DRAFT: OP367-4 (0305007-18) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Naphthalene	U			9270	ug/kg dry	1	B305030	May-28-0	Jun-12-03
2-Methylnaphthalene	U			9270	"	"	"	"	"
Acenaphthylene	U			9270	"	"	"	"	"
Acenaphthene	U			9270	"	"	"	"	"
Dibenzofuran	U			9270	"	"	"	"	"
Fluorene	**16300**			9270	"	"	"	"	"
Phenanthrene	**27700**			9270	"	"	"	"	"
Anthracene	**11000**			9270	"	"	"	"	"
Carbazole	U			9270	"	"	"	"	"

Babu Paruchuri, Group Leader

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Superfund, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Indiana Harbor Project Number: [none] Project Manager: Betty Lavis	**Reported:** Jul-16-03 17:00

DRAFT: Semivolatiles by GC/MS
US EPA Region 5 Central Regional Laboratory

DRAFT: OP367-4 (0305007-18) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Fluoranthene	**56700**			9270	ug/kg dry	1	B305030	May-28-0	Jun-12-03
Pyrene	**223000**			18500	"	2	"	"	Jun-12-03
Chrysene	**186000**			18500	"	"	"	"	"
Benzo (a) anthracene	**50000**			9270	"	1	"	"	Jun-12-03
Benzo (b) fluoranthene	**44900**			9270	"	"	"	"	"
Benzo (k) fluoranthene	**12400**			9270	"	"	"	"	"
Benzo (a) pyrene	**81600**			9270	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	**11800**			9270	"	"	"	"	"
Dibenz (a,h) anthracene	**10900**			9270	"	"	"	"	"
Benzo (g,h,i) perylene	**28200**			9270	"	"	"	"	"
Surrogate: Nitrobenzene-d5	7720			*83.2 %*	*38-104*		"	"	"
Surrogate: 2-Fluorobiphenyl	8440			*90.9 %*	*52.1-104*		"	"	"
Surrogate: Terphenyl-d14	11400			*123 %*	*62.9-126*		"	"	"

DRAFT: DN5-3 (0305007-19) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Naphthalene	**U**			11200	ug/kg dry	1	B305030	May-28-0	Jun-12-03
2-Methylnaphthalene	**11300**			11200	"	"	"	"	"
Acenaphthylene	**U**			11200	"	"	"	"	"
Acenaphthene	**U**			11200	"	"	"	"	"
Dibenzofuran	**U**			11200	"	"	"	"	"
Fluorene	**12200**			11200	"	"	"	"	"
Phenanthrene	**25000**			11200	"	"	"	"	"
Anthracene	**U**			11200	"	"	"	"	"
Carbazole	**U**			11200	"	"	"	"	"
Fluoranthene	**20500**			11200	"	"	"	"	"
Pyrene	**105000**			11200	"	"	"	"	"
Chrysene	**85900**			11200	"	"	"	"	"
Benzo (a) anthracene	**22300**			11200	"	"	"	"	"
Benzo (b) fluoranthene	**29900**			11200	"	"	"	"	"
Benzo (k) fluoranthene	**U**			11200	"	"	"	"	"
Benzo (a) pyrene	**59300**			11200	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	**U**			11200	"	"	"	"	"
Dibenz (a,h) anthracene	**U**			11200	"	"	"	"	"

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Superfund, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Indiana Harbor Project Number: [none] Project Manager: Betty Lavis	**Reported:** Jul-16-03 17:00

DRAFT: Semivolatiles by GC/MS
US EPA Region 5 Central Regional Laboratory

DRAFT: DN5-3 (0305007-19) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Benzo (g,h,i) perylene	**29600**			11200	ug/kg dry	1	B305030	May-28-0	Jun-12-03
Surrogate: Nitrobenzene-d5	10900			*97.3 %*	*38-104*		"	"	"
Surrogate: 2-Fluorobiphenyl	9950			*88.8 %*	*52.1-104*		"	"	"
Surrogate: Terphenyl-d14	10800			*96.4 %*	*62.9-126*		"	"	"

DRAFT: SR5-6 (0305007-20) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Naphthalene	**U**			12100	ug/kg dry	1	B305030	May-28-0	Jun-12-03
2-Methylnaphthalene	**U**			12100	"	"	"	"	"
Acenaphthylene	**U**			12100	"	"	"	"	"
Acenaphthene	**U**			12100	"	"	"	"	"
Dibenzofuran	**U**			12100	"	"	"	"	"
Fluorene	**U**			12100	"	"	"	"	"
Phenanthrene	**U**			12100	"	"	"	"	"
Anthracene	**U**			12100	"	"	"	"	"
Carbazole	**U**			12100	"	"	"	"	"
Fluoranthene	**96600**			12100	"	"	"	"	"
Pyrene	**415000**			48300	"	4	"	"	Jun-12-03
Chrysene	**393000**			48300	"	"	"	"	"
Benzo (a) anthracene	**149000**			48300	"	"	"	"	"
Benzo (b) fluoranthene	**70800**			12100	"	1	"	"	Jun-12-03
Benzo (k) fluoranthene	**25000**			12100	"	"	"	"	"
Benzo (a) pyrene	**142000**			12100	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	**21900**			12100	"	"	"	"	"
Dibenz (a,h) anthracene	**20100**			12100	"	"	"	"	"
Benzo (g,h,i) perylene	**40500**			12100	"	"	"	"	"
Surrogate: Nitrobenzene-d5	12300			*102 %*	*38-104*		"	"	"
Surrogate: 2-Fluorobiphenyl	11600			*95.9 %*	*52.1-104*		"	"	"
Surrogate: Terphenyl-d14	23700			*196 %*	*62.9-126*		"	"	"

Babu Paruchuri, Group Leader

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Superfund, US EPA Region 5	Project: Indiana Harbor	
77 West Jackson Boulevard	Project Number: [none]	**Reported:**
Chicago IL, 60604	Project Manager: Betty Lavis	Jul-16-03 17:00

DRAFT: Semivolatiles by GC/MS
US EPA Region 5 Central Regional Laboratory

DRAFT: SX67-5 (0305007-21) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Naphthalene	U			10700	ug/kg dry	1	B305030	May-28-0	Jun-12-03
2-Methylnaphthalene	U			10700	"	"	"	"	"
Acenaphthylene	U			10700	"	"	"	"	"
Acenaphthene	U			10700	"	"	"	"	"
Dibenzofuran	U			10700	"	"	"	"	"
Fluorene	U			10700	"	"	"	"	"
Phenanthrene	U			10700	"	"	"	"	"
Anthracene	U			10700	"	"	"	"	"
Carbazole	U			10700	"	"	"	"	"
Fluoranthene	**17100**			10700	"	"	"	"	"
Pyrene	**74900**			10700	"	"	"	"	"
Chrysene	**55300**			10700	"	"	"	"	"
Benzo (a) anthracene	**18100**			10700	"	"	"	"	"
Benzo (b) fluoranthene	**15400**			10700	"	"	"	"	"
Benzo (k) fluoranthene	U			10700	"	"	"	"	"
Benzo (a) pyrene	U			10700	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	U			10700	"	"	"	"	"
Dibenz (a,h) anthracene	U			10700	"	"	"	"	"
Benzo (g,h,i) perylene	**12100**			10700	"	"	"	"	"
Surrogate: Nitrobenzene-d5	8570			*80.1 %*	*38-104*		"	"	"
Surrogate: 2-Fluorobiphenyl	8830			*82.5 %*	*52.1-104*		"	"	"
Surrogate: Terphenyl-d14	10600			*99.1 %*	*62.9-126*		"	"	"

DRAFT: SV1-5 (0305007-22) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Naphthalene	U			30000	ug/kg dry	1	B305030	May-28-0	Jun-12-03
2-Methylnaphthalene	U			30000	"	"	"	"	"
Acenaphthylene	U			30000	"	"	"	"	"
Acenaphthene	U			30000	"	"	"	"	"
Dibenzofuran	U			30000	"	"	"	"	"
Fluorene	U			30000	"	"	"	"	"
Phenanthrene	U			30000	"	"	"	"	"
Anthracene	U			30000	"	"	"	"	"
Carbazole	U			30000	"	"	"	"	"

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Superfund, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Indiana Harbor Project Number: [none] Project Manager: Betty Lavis	**Reported:** Jul-16-03 17:00

DRAFT: Semivolatiles by GC/MS
US EPA Region 5 Central Regional Laboratory

DRAFT: SV1-5 (0305007-22) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Fluoranthene	**U**			30000	ug/kg dry	1	B305030	May-28-0	Jun-12-03
Pyrene	**121000**			30000	"	"	"	"	"
Chrysene	**65300**			30000	"	"	"	"	"
Benzo (a) anthracene	**U**			30000	"	"	"	"	"
Benzo (b) fluoranthene	**38400**			30000	"	"	"	"	"
Benzo (k) fluoranthene	**U**			30000	"	"	"	"	"
Benzo (a) pyrene	**U**			30000	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	**U**			30000	"	"	"	"	"
Dibenz (a,h) anthracene	**U**			30000	"	"	"	"	"
Benzo (g,h,i) perylene	**U**			30000	"	"	"	"	"
Surrogate: Nitrobenzene-d5	28100			*93.4 %*	*38-104*		"	"	"
Surrogate: 2-Fluorobiphenyl	27300			*90.7 %*	*52.1-104*		"	"	"
Surrogate: Terphenyl-d14	33800			*112 %*	*62.9-126*		"	"	"

DRAFT: SRN 3-4 (0305007-23) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Naphthalene	**U**			24800	ug/kg dry	1	B305030	May-28-0	Jun-12-03
2-Methylnaphthalene	**U**			24800	"	"	"	"	"
Acenaphthylene	**U**			24800	"	"	"	"	"
Acenaphthene	**U**			24800	"	"	"	"	"
Dibenzofuran	**U**			24800	"	"	"	"	"
Fluorene	**U**			24800	"	"	"	"	"
Phenanthrene	**U**			24800	"	"	"	"	"
Anthracene	**U**			24800	"	"	"	"	"
Carbazole	**U**			24800	"	"	"	"	"
Fluoranthene	**111000**			24800	"	"	"	"	"
Pyrene	**378000**			24800	"	"	"	"	"
Chrysene	**309000**			24800	"	"	"	"	"
Benzo (a) anthracene	**148000**			24800	"	"	"	"	"
Benzo (b) fluoranthene	**80000**			24800	"	"	"	"	"
Benzo (k) fluoranthene	**U**			24800	"	"	"	"	"
Benzo (a) pyrene	**143000**			24800	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	**U**			24800	"	"	"	"	"
Dibenz (a,h) anthracene	**U**			24800	"	"	"	"	"

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Superfund, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Indiana Harbor Project Number: [none] Project Manager: Betty Lavis	**Reported:** Jul-16-03 17:00

DRAFT: Semivolatiles by GC/MS
US EPA Region 5 Central Regional Laboratory

DRAFT: SRN 3-4 (0305007-23) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Benzo (g,h,i) perylene	**36600**			24800	ug/kg dry	1	B305030	May-28-0	Jun-12-03
Surrogate: Nitrobenzene-d5	20000			*80.3 %*	*38-104*		"	"	"
Surrogate: 2-Fluorobiphenyl	20600			*82.7 %*	*52.1-104*		"	"	"
Surrogate: Terphenyl-d14	22400			*90.0 %*	*62.9-126*		"	"	"

DRAFT: SX61-4 (0305007-24) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Naphthalene	**U**			13200	ug/kg dry	1	B305030	May-28-0	Jun-12-03
2-Methylnaphthalene	**U**			13200	"	"	"	"	"
Acenaphthylene	**U**			13200	"	"	"	"	"
Acenaphthene	**U**			13200	"	"	"	"	"
Dibenzofuran	**U**			13200	"	"	"	"	"
Fluorene	**U**			13200	"	"	"	"	"
Phenanthrene	**U**			13200	"	"	"	"	"
Anthracene	**U**			13200	"	"	"	"	"
Carbazole	**U**			13200	"	"	"	"	"
Fluoranthene	**64800**			13200	"	"	"	"	"
Pyrene	**265000**			26500	"	2	"	"	Jun-12-03
Chrysene	**181000**			13200	"	1	"	"	Jun-12-03
Benzo (a) anthracene	**71100**			13200	"	"	"	"	"
Benzo (b) fluoranthene	**54600**			13200	"	"	"	"	"
Benzo (k) fluoranthene	**U**			13200	"	"	"	"	"
Benzo (a) pyrene	**99000**			13200	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	**15400**			13200	"	"	"	"	"
Dibenz (a,h) anthracene	**13800**			13200	"	"	"	"	"
Benzo (g,h,i) perylene	**25800**			13200	"	"	"	"	"
Surrogate: Nitrobenzene-d5	10200			*76.7 %*	*38-104*		"	"	"
Surrogate: 2-Fluorobiphenyl	11700			*88.0 %*	*52.1-104*		"	"	"
Surrogate: Terphenyl-d14	18300			*138 %*	*62.9-126*		"	"	"

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Superfund, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Indiana Harbor Project Number: [none] Project Manager: Betty Lavis	**Reported:** Jul-16-03 17:00

DRAFT: Semivolatiles by GC/MS
US EPA Region 5 Central Regional Laboratory

DRAFT: DN182-4 (0305007-25) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Naphthalene	U	J		10300	ug/kg dry	1	B305030	May-28-0	Jun-12-03
2-Methylnaphthalene	U	J		10300	"	"	"	"	"
Acenaphthylene	U	J		10300	"	"	"	"	"
Acenaphthene	U	J		10300	"	"	"	"	"
Dibenzofuran	U	J		10300	"	"	"	"	"
Fluorene	U	J		10300	"	"	"	"	"
Phenanthrene	U	J		10300	"	"	"	"	"
Anthracene	U	J		10300	"	"	"	"	"
Carbazole	U	J		10300	"	"	"	"	"
Fluoranthene	U	J		10300	"	"	"	"	"
Pyrene	**52000**	K		10300	"	"	"	"	"
Chrysene	**38300**	K		10300	"	"	"	"	"
Benzo (a) anthracene	U	J		10300	"	"	"	"	"
Benzo (b) fluoranthene	**13900**	K		10300	"	"	"	"	"
Benzo (k) fluoranthene	U	J		10300	"	"	"	"	"
Benzo (a) pyrene	U	J		10300	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	U	J		10300	"	"	"	"	"
Dibenz (a,h) anthracene	U	J		10300	"	"	"	"	"
Benzo (g,h,i) perylene	U	J		10300	"	"	"	"	"
Surrogate: Nitrobenzene-d5	11300			*110 %*	*38-104*		"	"	"
Surrogate: 2-Fluorobiphenyl	11700			*114 %*	*52.1-104*		"	"	"
Surrogate: Terphenyl-d14	13700			*133 %*	*62.9-126*		"	"	"

DRAFT: SX67-4 (0305007-26) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Naphthalene	U			31700	ug/kg dry	1	B305030	May-28-0	Jun-12-03
2-Methylnaphthalene	U			31700	"	"	"	"	"
Acenaphthylene	U			31700	"	"	"	"	"
Acenaphthene	U			31700	"	"	"	"	"
Dibenzofuran	U			31700	"	"	"	"	"
Fluorene	U			31700	"	"	"	"	"
Phenanthrene	U			31700	"	"	"	"	"
Anthracene	U			31700	"	"	"	"	"
Carbazole	U			31700	"	"	"	"	"

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Superfund, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Indiana Harbor Project Number: [none] Project Manager: Betty Lavis	**Reported:** Jul-16-03 17:00

DRAFT: Semivolatiles by GC/MS
US EPA Region 5 Central Regional Laboratory

DRAFT: SX67-4 (0305007-26) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Fluoranthene	**69400**			31700	ug/kg dry	1	B305030	May-28-0	Jun-12-03
Pyrene	**213000**			31700	"	"	"	"	"
Chrysene	**170000**			31700	"	"	"	"	"
Benzo (a) anthracene	**68200**			31700	"	"	"	"	"
Benzo (b) fluoranthene	**46500**			31700	"	"	"	"	"
Benzo (k) fluoranthene	**U**			31700	"	"	"	"	"
Benzo (a) pyrene	**77600**			31700	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	**U**	J		31700	"	"	"	"	"
Dibenz (a,h) anthracene	**U**	J		31700	"	"	"	"	"
Benzo (g,h,i) perylene	**32000**	J		31700	"	"	"	"	"
Surrogate: Nitrobenzene-d5	27000			*85.2 %*	*38-104*		"	"	"
Surrogate: 2-Fluorobiphenyl	28800			*90.9 %*	*52.1-104*		"	"	"
Surrogate: Terphenyl-d14	28700			*90.5 %*	*62.9-126*		"	"	"

DRAFT: OP367-3 (0305007-27) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Naphthalene	**U**			9590	ug/kg dry	1	B305030	May-28-0	Jun-12-03
2-Methylnaphthalene	**U**			9590	"	"	"	"	"
Acenaphthylene	**U**			9590	"	"	"	"	"
Acenaphthene	**U**			9590	"	"	"	"	"
Dibenzofuran	**U**			9590	"	"	"	"	"
Fluorene	**U**			9590	"	"	"	"	"
Phenanthrene	**U**			9590	"	"	"	"	"
Anthracene	**U**			9590	"	"	"	"	"
Carbazole	**U**			9590	"	"	"	"	"
Fluoranthene	**16900**			9590	"	"	"	"	"
Pyrene	**83000**			9590	"	"	"	"	"
Chrysene	**64700**			9590	"	"	"	"	"
Benzo (a) anthracene	**23000**			9590	"	"	"	"	"
Benzo (b) fluoranthene	**19800**			9590	"	"	"	"	"
Benzo (k) fluoranthene	**U**			9590	"	"	"	"	"
Benzo (a) pyrene	**36800**			9590	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	**U**	J		9590	"	"	"	"	"
Dibenz (a,h) anthracene	**U**	J		9590	"	"	"	"	"

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Superfund, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Indiana Harbor Project Number: [none] Project Manager: Betty Lavis	**Reported:** Jul-16-03 17:00

DRAFT: Semivolatiles by GC/MS
US EPA Region 5 Central Regional Laboratory

DRAFT: OP367-3 (0305007-27) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Benzo (g,h,i) perylene	**12200**	J		9590	ug/kg dry	1	B305030	May-28-0	Jun-12-03
Surrogate: Nitrobenzene-d5	8140			*84.8 %*	*38-104*		"	"	"
Surrogate: 2-Fluorobiphenyl	9460			*98.5 %*	*52.1-104*		"	"	"
Surrogate: Terphenyl-d14	10200			*106 %*	*62.9-126*		"	"	"

DRAFT: SX61-6 (0305007-28) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Naphthalene	**U**			28200	ug/kg dry	1	B305030	May-28-0	Jun-12-03
2-Methylnaphthalene	**U**			28200	"	"	"	"	"
Acenaphthylene	**U**			28200	"	"	"	"	"
Acenaphthene	**U**			28200	"	"	"	"	"
Dibenzofuran	**U**			28200	"	"	"	"	"
Fluorene	**U**			28200	"	"	"	"	"
Phenanthrene	**U**			28200	"	"	"	"	"
Anthracene	**U**			28200	"	"	"	"	"
Carbazole	**U**			28200	"	"	"	"	"
Fluoranthene	**52400**			28200	"	"	"	"	"
Pyrene	**170000**			28200	"	"	"	"	"
Chrysene	**127000**			28200	"	"	"	"	"
Benzo (a) anthracene	**46000**			28200	"	"	"	"	"
Benzo (b) fluoranthene	**39900**			28200	"	"	"	"	"
Benzo (k) fluoranthene	**U**			28200	"	"	"	"	"
Benzo (a) pyrene	**63500**			28200	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	**U**	J		28200	"	"	"	"	"
Dibenz (a,h) anthracene	**U**	J		28200	"	"	"	"	"
Benzo (g,h,i) perylene	**U**	J		28200	"	"	"	"	"
Surrogate: Nitrobenzene-d5	23700			*84.0 %*	*38-104*		"	"	"
Surrogate: 2-Fluorobiphenyl	25900			*91.8 %*	*52.1-104*		"	"	"
Surrogate: Terphenyl-d14	25900			*91.8 %*	*62.9-126*		"	"	"

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Superfund, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Indiana Harbor Project Number: [none] Project Manager: Betty Lavis	**Reported:** Jul-16-03 17:00

DRAFT: Semivolatiles by GC/MS
US EPA Region 5 Central Regional Laboratory

DRAFT: PHRAGMITES (0305007-29) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Naphthalene	U			28600	ug/kg dry	1	B305030	May-28-0	Jun-12-03
2-Methylnaphthalene	U			28600	"	"	"	"	"
Acenaphthylene	U			28600	"	"	"	"	"
Acenaphthene	U			28600	"	"	"	"	"
Dibenzofuran	U			28600	"	"	"	"	"
Fluorene	U			28600	"	"	"	"	"
Phenanthrene	U			28600	"	"	"	"	"
Anthracene	U			28600	"	"	"	"	"
Carbazole	U			28600	"	"	"	"	"
Fluoranthene	U			28600	"	"	"	"	"
Pyrene	**99400**			28600	"	"	"	"	"
Chrysene	**77800**			28600	"	"	"	"	"
Benzo (a) anthracene	U			28600	"	"	"	"	"
Benzo (b) fluoranthene	U			28600	"	"	"	"	"
Benzo (k) fluoranthene	U			28600	"	"	"	"	"
Benzo (a) pyrene	U			28600	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	U	J		28600	"	"	"	"	"
Dibenz (a,h) anthracene	U	J		28600	"	"	"	"	"
Benzo (g,h,i) perylene	U	J		28600	"	"	"	"	"
Surrogate: Nitrobenzene-d5	23400			*81.8 %*	*38-104*		"	"	"
Surrogate: 2-Fluorobiphenyl	24300			*85.0 %*	*52.1-104*		"	"	"
Surrogate: Terphenyl-d14	34600			*121 %*	*62.9-126*		"	"	"

DRAFT: SV1-6 (0305007-30) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Naphthalene	U			22800	ug/kg dry	1	B305030	May-28-0	Jun-13-03
2-Methylnaphthalene	U			22800	"	"	"	"	"
Acenaphthylene	U			22800	"	"	"	"	"
Acenaphthene	U			22800	"	"	"	"	"
Dibenzofuran	U			22800	"	"	"	"	"
Fluorene	U			22800	"	"	"	"	"
Phenanthrene	U			22800	"	"	"	"	"
Anthracene	U			22800	"	"	"	"	"
Carbazole	U			22800	"	"	"	"	"
Fluoranthene	**36000**			22800	"	"	"	"	"

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Superfund, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Indiana Harbor Project Number: [none] Project Manager: Betty Lavis	**Reported:** Jul-16-03 17:00

DRAFT: Semivolatiles by GC/MS
US EPA Region 5 Central Regional Laboratory

DRAFT: SV1-6 (0305007-30) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Pyrene	**139000**			22800	ug/kg dry	1	B305030	May-28-0	Jun-13-03
Chrysene	**96200**			22800	"	"	"	"	"
Benzo (a) anthracene	**34500**			22800	"	"	"	"	"
Benzo (b) fluoranthene	**28300**			22800	"	"	"	"	"
Benzo (k) fluoranthene	**U**			22800	"	"	"	"	"
Benzo (a) pyrene	**44400**			22800	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	**U**	J		22800	"	"	"	"	"
Dibenz (a,h) anthracene	**U**	J		22800	"	"	"	"	"
Benzo (g,h,i) perylene	**U**	J		22800	"	"	"	"	"
Surrogate: Nitrobenzene-d5	19700			*86.0 %*	*38-104*		"	"	"
Surrogate: 2-Fluorobiphenyl	20000			*87.3 %*	*52.1-104*		"	"	"
Surrogate: Terphenyl-d14	22400			*97.8 %*	*62.9-126*		"	"	"

DRAFT: DN182-3 (0305007-31) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Naphthalene	**U**			29600	ug/kg dry	1	B305030	May-28-0	Jun-13-03
2-Methylnaphthalene	**U**			29600	"	"	"	"	"
Acenaphthylene	**U**			29600	"	"	"	"	"
Acenaphthene	**U**			29600	"	"	"	"	"
Dibenzofuran	**U**			29600	"	"	"	"	"
Fluorene	**U**			29600	"	"	"	"	"
Phenanthrene	**U**			29600	"	"	"	"	"
Anthracene	**U**			29600	"	"	"	"	"
Carbazole	**U**			29600	"	"	"	"	"
Fluoranthene	**85600**			29600	"	"	"	"	"
Pyrene	**238000**			29600	"	"	"	"	"
Chrysene	**217000**			29600	"	"	"	"	"
Benzo (a) anthracene	**89600**			29600	"	"	"	"	"
Benzo (b) fluoranthene	**43400**			29600	"	"	"	"	"
Benzo (k) fluoranthene	**U**			29600	"	"	"	"	"
Benzo (a) pyrene	**88000**			29600	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	**U**	J		29600	"	"	"	"	"
Dibenz (a,h) anthracene	**U**	J		29600	"	"	"	"	"
Benzo (g,h,i) perylene	**U**	J		29600	"	"	"	"	"

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Superfund, US EPA Region 5	Project: Indiana Harbor	
77 West Jackson Boulevard	Project Number: [none]	**Reported:**
Chicago IL, 60604	Project Manager: Betty Lavis	Jul-16-03 17:00

DRAFT: Semivolatiles by GC/MS
US EPA Region 5 Central Regional Laboratory

DRAFT: DN182-3 (0305007-31) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Surrogate: Nitrobenzene-d5	25100			*84.8 %*	*38-104*		*B305030*	*May-28-03*	*Jun-13-03*
Surrogate: 2-Fluorobiphenyl	27500			*92.9 %*	*52.1-104*		"	"	"
Surrogate: Terphenyl-d14	24100			*81.4 %*	*62.9-126*		"	"	"

DRAFT: SRN1-2 (0305007-32) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Naphthalene	**U**			27100	ug/kg dry	1	B305030	May-28-0	Jun-13-03
2-Methylnaphthalene	**U**			27100	"	"	"	"	"
Acenaphthylene	**U**			27100	"	"	"	"	"
Acenaphthene	**U**			27100	"	"	"	"	"
Dibenzofuran	**U**			27100	"	"	"	"	"
Fluorene	**U**			27100	"	"	"	"	"
Phenanthrene	**U**			27100	"	"	"	"	"
Anthracene	**U**			27100	"	"	"	"	"
Carbazole	**U**			27100	"	"	"	"	"
Fluoranthene	**27900**			27100	"	"	"	"	"
Pyrene	**102000**			27100	"	"	"	"	"
Chrysene	**62000**			27100	"	"	"	"	"
Benzo (a) anthracene	**U**			27100	"	"	"	"	"
Benzo (b) fluoranthene	**29600**			27100	"	"	"	"	"
Benzo (k) fluoranthene	**U**			27100	"	"	"	"	"
Benzo (a) pyrene	**36600**			27100	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	**U**	J		27100	"	"	"	"	"
Dibenz (a,h) anthracene	**U**	J		27100	"	"	"	"	"
Benzo (g,h,i) perylene	**U**	J		27100	"	"	"	"	"
Surrogate: Nitrobenzene-d5	21900			*80.8 %*	*38-104*		"	"	"
Surrogate: 2-Fluorobiphenyl	24000			*88.6 %*	*52.1-104*		"	"	"
Surrogate: Terphenyl-d14	20100			*74.2 %*	*62.9-126*		"	"	"

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Superfund, US EPA Region 5	Project: Indiana Harbor	
77 West Jackson Boulevard	Project Number: [none]	**Reported:**
Chicago IL, 60604	Project Manager: Betty Lavis	Jul-16-03 17:00

DRAFT: Semivolatiles by GC/MS
US EPA Region 5 Central Regional Laboratory

DRAFT: SRN5-6 (0305007-33) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Naphthalene	U			8640	ug/kg dry	1	B305030	May-28-0	Jun-13-03
2-Methylnaphthalene	U			8640	"	"	"	"	"
Acenaphthylene	U			8640	"	"	"	"	"
Acenaphthene	U			8640	"	"	"	"	"
Dibenzofuran	U			8640	"	"	"	"	"
Fluorene	U			8640	"	"	"	"	"
Phenanthrene	U			8640	"	"	"	"	"
Anthracene	U			8640	"	"	"	"	"
Carbazole	U			8640	"	"	"	"	"
Fluoranthene	**19600**			8640	"	"	"	"	"
Pyrene	**55100**			8640	"	"	"	"	"
Chrysene	**57000**			8640	"	"	"	"	"
Benzo (a) anthracene	**25300**			8640	"	"	"	"	"
Benzo (b) fluoranthene	**14000**			8640	"	"	"	"	"
Benzo (k) fluoranthene	U			8640	"	"	"	"	"
Benzo (a) pyrene	**27700**			8640	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	U	J		8640	"	"	"	"	"
Dibenz (a,h) anthracene	U	J		8640	"	"	"	"	"
Benzo (g,h,i) perylene	**10000**	J		8640	"	"	"	"	"
Surrogate: Nitrobenzene-d5	7680			*88.8 %*	*38-104*		"	"	"
Surrogate: 2-Fluorobiphenyl	8420			*97.3 %*	*52.1-104*		"	"	"
Surrogate: Terphenyl-d14	6400			*74.0 %*	*62.9-126*		"	"	"

DRAFT: SX61-5 (0305007-34) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Naphthalene	U			15300	ug/kg dry	1	B306001	Jun-04-03	Jun-13-03
2-Methylnaphthalene	U			15300	"	"	"	"	"
Acenaphthylene	U			15300	"	"	"	"	"
Acenaphthene	U			15300	"	"	"	"	"
Dibenzofuran	U			15300	"	"	"	"	"
Fluorene	U			15300	"	"	"	"	"
Phenanthrene	U			15300	"	"	"	"	"
Anthracene	U			15300	"	"	"	"	"
Carbazole	U			15300	"	"	"	"	"

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Superfund, US EPA Region 5	Project: Indiana Harbor	
77 West Jackson Boulevard	Project Number: [none]	**Reported:**
Chicago IL, 60604	Project Manager: Betty Lavis	Jul-16-03 17:00

DRAFT: Semivolatiles by GC/MS
US EPA Region 5 Central Regional Laboratory

DRAFT: SX61-5 (0305007-34) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Fluoranthene	**16400**			15300	ug/kg dry	1	B306001	Jun-04-03	Jun-13-03
Pyrene	**93600**			15300	"	"	"	"	"
Chrysene	**72500**			15300	"	"	"	"	"
Benzo (a) anthracene	**17400**			15300	"	"	"	"	"
Benzo (b) fluoranthene	**20200**			15300	"	"	"	"	"
Benzo (k) fluoranthene	**U**			15300	"	"	"	"	"
Benzo (a) pyrene	**U**			15300	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	**U**			15300	"	"	"	"	"
Dibenz (a,h) anthracene	**U**	J		15300	"	"	"	"	"
Benzo (g,h,i) perylene	**21600**	J		15300	"	"	"	"	"
Surrogate: Nitrobenzene-d5	22400			*73.0 %*	*38-104*		"	"	"
Surrogate: 2-Fluorobiphenyl	23100			*75.2 %*	*52.1-104*		"	"	"
Surrogate: Terphenyl-d14	28100			*91.5 %*	*62.9-126*		"	"	"

DRAFT: NM6-3 (0305007-35) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Naphthalene	**U**	J		3130	ug/kg dry	1	B306001	Jun-04-03	Jun-13-03
2-Methylnaphthalene	**U**	J		3130	"	"	"	"	"
Acenaphthylene	**U**	J		3130	"	"	"	"	"
Acenaphthene	**U**	J		3130	"	"	"	"	"
Dibenzofuran	**U**	J		3130	"	"	"	"	"
Fluorene	**U**	J		3130	"	"	"	"	"
Phenanthrene	**3400**	K		3130	"	"	"	"	"
Anthracene	**U**	J		3130	"	"	"	"	"
Carbazole	**U**	J		3130	"	"	"	"	"
Fluoranthene	**U**	J		3130	"	"	"	"	"
Pyrene	**U**	J		3130	"	"	"	"	"
Chrysene	**U**	J		3130	"	"	"	"	"
Benzo (a) anthracene	**U**	J		3130	"	"	"	"	"
Benzo (b) fluoranthene	**U**	J		3130	"	"	"	"	"
Benzo (k) fluoranthene	**U**	J		3130	"	"	"	"	"
Benzo (a) pyrene	**U**	J		3130	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	**U**	J		3130	"	"	"	"	"
Dibenz (a,h) anthracene	**U**	J		3130	"	"	"	"	"

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Superfund, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Indiana Harbor Project Number: [none] Project Manager: Betty Lavis	**Reported:** Jul-16-03 17:00

DRAFT: Semivolatiles by GC/MS
US EPA Region 5 Central Regional Laboratory

DRAFT: NM6-3 (0305007-35) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Benzo (g,h,i) perylene	**U**	J		3130	ug/kg dry	1	B306001	Jun-04-03	Jun-13-03
Surrogate: Nitrobenzene-d5	3670			*58.6 %*	*38-104*		"	"	"
Surrogate: 2-Fluorobiphenyl	3740			*59.7 %*	*52.1-104*		"	"	"
Surrogate: Terphenyl-d14	3990			*63.7 %*	*62.9-126*		"	"	"

DRAFT: SX67-6 (0305007-36) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Naphthalene	**U**			14000	ug/kg dry	1	B306001	Jun-04-03	Jun-13-03
2-Methylnaphthalene	**U**			14000	"	"	"	"	"
Acenaphthylene	**U**			14000	"	"	"	"	"
Acenaphthene	**U**			14000	"	"	"	"	"
Dibenzofuran	**U**			14000	"	"	"	"	"
Fluorene	**15900**			14000	"	"	"	"	"
Phenanthrene	**17700**			14000	"	"	"	"	"
Anthracene	**U**			14000	"	"	"	"	"
Carbazole	**U**			14000	"	"	"	"	"
Fluoranthene	**49100**			14000	"	"	"	"	"
Pyrene	**140000**			14000	"	"	"	"	"
Chrysene	**126000**			14000	"	"	"	"	"
Benzo (a) anthracene	**49800**			14000	"	"	"	"	"
Benzo (b) fluoranthene	**27300**			14000	"	"	"	"	"
Benzo (k) fluoranthene	**U**			14000	"	"	"	"	"
Benzo (a) pyrene	**56200**			14000	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	**U**			14000	"	"	"	"	"
Dibenz (a,h) anthracene	**U**	J		14000	"	"	"	"	"
Benzo (g,h,i) perylene	**25900**	J		14000	"	"	"	"	"
Surrogate: Nitrobenzene-d5	21800			*78.1 %*	*38-104*		"	"	"
Surrogate: 2-Fluorobiphenyl	25000			*89.6 %*	*52.1-104*		"	"	"
Surrogate: Terphenyl-d14	19400			*69.5 %*	*62.9-126*		"	"	"

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Superfund, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Indiana Harbor Project Number: [none] Project Manager: Betty Lavis	**Reported:** Jul-16-03 17:00

DRAFT: Semivolatiles by GC/MS
US EPA Region 5 Central Regional Laboratory

DRAFT: DN5-4 (0305007-37) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08
Qualifiers: J

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Naphthalene	U			5650	ug/kg dry	1	B306014	Jun-12-03	Jul-01-03
2-Methylnaphthalene	U			5650	"	"	"	"	"
Acenaphthylene	U			5650	"	"	"	"	"
Acenaphthene	U			5650	"	"	"	"	"
Dibenzofuran	U			5650	"	"	"	"	"
Fluorene	U			5650	"	"	"	"	"
Phenanthrene	U			5650	"	"	"	"	"
Anthracene	U			5650	"	"	"	"	"
Carbazole	U			5650	"	"	"	"	"
Fluoranthene	U			5650	"	"	"	"	"
Pyrene	**6340**			5650	"	"	"	"	"
Chrysene	U			5650	"	"	"	"	"
Benzo (a) anthracene	U			5650	"	"	"	"	"
Benzo (b) fluoranthene	U			5650	"	"	"	"	"
Benzo (k) fluoranthene	U			5650	"	"	"	"	"
Benzo (a) pyrene	U			5650	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	U			5650	"	"	"	"	"
Dibenz (a,h) anthracene	U			5650	"	"	"	"	"
Benzo (g,h,i) perylene	U			5650	"	"	"	"	"
Surrogate: Nitrobenzene-d5	5680			*50.3 %*	*38-104*		"	"	"
Surrogate: 2-Fluorobiphenyl	6910			*61.2 %*	*52.1-104*		"	"	"
Surrogate: Terphenyl-d14	9390			*83.1 %*	*62.9-126*		"	"	"

DRAFT: DN5-1 (0305007-38) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Naphthalene	U			10500	ug/kg dry	1	B305027	May-27-0	Jun-13-03
2-Methylnaphthalene	U			10500	"	"	"	"	"
Acenaphthylene	U			10500	"	"	"	"	"
Acenaphthene	U			10500	"	"	"	"	"
Dibenzofuran	U			10500	"	"	"	"	"
Fluorene	U			10500	"	"	"	"	"
Phenanthrene	U			10500	"	"	"	"	"
Anthracene	U			10500	"	"	"	"	"
Carbazole	U			10500	"	"	"	"	"

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Superfund, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Indiana Harbor Project Number: [none] Project Manager: Betty Lavis	**Reported:** Jul-16-03 17:00

DRAFT: Semivolatiles by GC/MS
US EPA Region 5 Central Regional Laboratory

DRAFT: DN5-1 (0305007-38) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Fluoranthene	**43600**			10500	ug/kg dry	1	B305027	May-27-0	Jun-13-03
Pyrene	**128000**			10500	"	"	"	"	"
Chrysene	**115000**			10500	"	"	"	"	"
Benzo (a) anthracene	**46100**			10500	"	"	"	"	"
Benzo (b) fluoranthene	**28900**			10500	"	"	"	"	"
Benzo (k) fluoranthene	**U**			10500	"	"	"	"	"
Benzo (a) pyrene	**53900**			10500	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	**U**	J		10500	"	"	"	"	"
Dibenz (a,h) anthracene	**U**	J		10500	"	"	"	"	"
Benzo (g,h,i) perylene	**23700**	J		10500	"	"	"	"	"
Surrogate: Nitrobenzene-d5	8250			*78.6 %*	*38-104*		"	"	"
Surrogate: 2-Fluorobiphenyl	9360			*89.1 %*	*52.1-104*		"	"	"
Surrogate: Terphenyl-d14	7380			*70.3 %*	*62.9-126*		"	"	"

DRAFT: NM6-1 (0305007-39) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Naphthalene	**U**			11400	ug/kg dry	1	B305027	May-27-0	Jun-13-03
2-Methylnaphthalene	**U**			11400	"	"	"	"	"
Acenaphthylene	**U**			11400	"	"	"	"	"
Acenaphthene	**U**			11400	"	"	"	"	"
Dibenzofuran	**U**			11400	"	"	"	"	"
Fluorene	**U**			11400	"	"	"	"	"
Phenanthrene	**U**			11400	"	"	"	"	"
Anthracene	**U**			11400	"	"	"	"	"
Carbazole	**U**			11400	"	"	"	"	"
Fluoranthene	**22100**			11400	"	"	"	"	"
Pyrene	**64300**			11400	"	"	"	"	"
Chrysene	**60200**			11400	"	"	"	"	"
Benzo (a) anthracene	**24900**			11400	"	"	"	"	"
Benzo (b) fluoranthene	**16200**			11400	"	"	"	"	"
Benzo (k) fluoranthene	**U**			11400	"	"	"	"	"
Benzo (a) pyrene	**U**			11400	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	**U**	J		11400	"	"	"	"	"
Dibenz (a,h) anthracene	**U**	J		11400	"	"	"	"	"

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Superfund, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Indiana Harbor Project Number: [none] Project Manager: Betty Lavis	**Reported:** Jul-16-03 17:00

DRAFT: Semivolatiles by GC/MS
US EPA Region 5 Central Regional Laboratory

DRAFT: NM6-1 (0305007-39) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Benzo (g,h,i) perylene	**14000**	J		11400	ug/kg dry	1	B305027	May-27-0	Jun-13-03
Surrogate: Nitrobenzene-d5	10600			*93.0 %*	*38-104*		"	"	"
Surrogate: 2-Fluorobiphenyl	9280			*81.4 %*	*52.1-104*		"	"	"
Surrogate: Terphenyl-d14	14700			*129 %*	*62.9-126*		"	"	"

DRAFT: SX61-2 (0305007-40) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Naphthalene	**U**			11400	ug/kg dry	1	B305027	May-27-0	Jun-13-03
2-Methylnaphthalene	**U**			11400	"	"	"	"	"
Acenaphthylene	**U**			11400	"	"	"	"	"
Acenaphthene	**U**			11400	"	"	"	"	"
Dibenzofuran	**U**			11400	"	"	"	"	"
Fluorene	**U**			11400	"	"	"	"	"
Phenanthrene	**U**			11400	"	"	"	"	"
Anthracene	**U**			11400	"	"	"	"	"
Carbazole	**U**			11400	"	"	"	"	"
Fluoranthene	**U**			11400	"	"	"	"	"
Pyrene	**13400**			11400	"	"	"	"	"
Chrysene	**U**			11400	"	"	"	"	"
Benzo (a) anthracene	**U**			11400	"	"	"	"	"
Benzo (b) fluoranthene	**U**			11400	"	"	"	"	"
Benzo (k) fluoranthene	**U**			11400	"	"	"	"	"
Benzo (a) pyrene	**U**			11400	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	**U**			11400	"	"	"	"	"
Dibenz (a,h) anthracene	**U**	J		11400	"	"	"	"	"
Benzo (g,h,i) perylene	**U**	J		11400	"	"	"	"	"
Surrogate: Nitrobenzene-d5	9520			*83.5 %*	*38-104*		"	"	"
Surrogate: 2-Fluorobiphenyl	9400			*82.5 %*	*52.1-104*		"	"	"
Surrogate: Terphenyl-d14	12500			*110 %*	*62.9-126*		"	"	"

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Central Regional Laboratory

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Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Indiana Harbor Project Number: [none] Project Manager: Betty Lavis	**Reported:** Jul-16-03 17:00

DRAFT: Semivolatiles by GC/MS - Quality Control
US EPA Region 5 Central Regional Laboratory

Batch B305027 - BP SVOA

Blank (B305027-BLK1) **Prepared: May-27-03 Analyzed: Jun-02-03**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Naphthalene	U			333	ug/kg wet						
2-Methylnaphthalene	U			333	"						
Acenaphthylene	U			333	"						
Acenaphthene	U			333	"						
Dibenzofuran	U			333	"						
Fluorene	U			333	"						
Phenanthrene	U			333	"						
Anthracene	U			333	"						
Carbazole	U			333	"						
Fluoranthene	U			333	"						
Pyrene	U			333	"						
Chrysene	U			333	"						
Benzo (a) anthracene	U			333	"						
Benzo (b) fluoranthene	U			333	"						
Benzo (k) fluoranthene	U			333	"						
Benzo (a) pyrene	U			333	"						
Indeno (1,2,3-cd) pyrene	U			333	"						
Dibenz (a,h) anthracene	U			333	"						
Benzo (g,h,i) perylene	U			333	"						
Surrogate: Nitrobenzene-d5	*2840*				"	*3330*		*85.3*	*38-104*		
Surrogate: 2-Fluorobiphenyl	*2680*				"	*3330*		*80.5*	*52.1-104*		
Surrogate: Terphenyl-d14	*2910*				"	*3330*		*87.4*	*62.9-126*		

LCS (B305027-BS1) **Prepared: May-27-03 Analyzed: Jun-02-03**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Naphthalene	**2440**			333	ug/kg wet	3330		73.3	46.6-93.7		
2-Methylnaphthalene	**2570**			333	"	3330		77.2	55.2-95.6		
Acenaphthylene	**2690**			333	"	3330		80.8	51.2-96.9		
Acenaphthene	**2720**			333	"	3330		81.7	62.4-96.2		
Dibenzofuran	**2600**			333	"	3330		78.1	63.3-99.5		
Fluorene	**2760**			333	"	3330		82.9	65.4-100.5		
Phenanthrene	**2720**			333	"	3330		81.7	73.2-98.4		

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DRAFT: Semivolatiles by GC/MS - Quality Control
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Batch B305027 - BP SVOA

LCS (B305027-BS1) **Prepared: May-27-03 Analyzed: Jun-02-03**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Anthracene	**2990**			333	ug/kg wet	3330		89.8	73.3-97.3		
Carbazole	**3090**			333	"	3330		92.8	73.2-101.8		
Fluoranthene	**2890**			333	"	3330		86.8	76.6-100.3		
Pyrene	**2900**			333	"	3330		87.1	75.7-109		
Chrysene	**2810**			333	"	3330		84.4	80.4-105		
Benzo (a) anthracene	**3080**			333	"	3330		92.5	81.6-105.2		
Benzo (b) fluoranthene	**2980**			333	"	3330		89.5	77.5-108.1		
Benzo (k) fluoranthene	**2700**			333	"	3330		81.1	74-108.1		
Benzo (a) pyrene	**2990**			333	"	3330		89.8	77.9-105.4		
Indeno (1,2,3-cd) pyrene	**2890**			333	"	3330		86.8	69-125.3		
Dibenz (a,h) anthracene	**2910**			333	"	3330		87.4	66.9-119.5		
Benzo (g,h,i) perylene	**2270**			333	"	3330		68.2	58.6-107		
Surrogate: Nitrobenzene-d5	*2530*				"	*3330*		*76.0*	*38-104*		
Surrogate: 2-Fluorobiphenyl	*2990*				"	*3330*		*89.8*	*52.1-104*		
Surrogate: Terphenyl-d14	*3040*				"	*3330*		*91.3*	*62.9-126*		

LCS Dup (B305027-BSD1) **Prepared: May-27-03 Analyzed: Jun-02-03**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Naphthalene	**2590**			333	ug/kg wet	3330		77.8	46.6-93.7	5.96	20.5
2-Methylnaphthalene	**2780**			333	"	3330		83.5	55.2-95.6	7.85	21.8
Acenaphthylene	**2850**			333	"	3330		85.6	51.2-96.9	5.78	19.4
Acenaphthene	**2910**			333	"	3330		87.4	62.4-96.2	6.75	18.1
Dibenzofuran	**2760**			333	"	3330		82.9	63.3-99.5	5.97	16.6
Fluorene	**2910**			333	"	3330		87.4	65.4-100.5	5.29	19
Phenanthrene	**2780**			333	"	3330		83.5	73.2-98.4	2.18	12.5
Anthracene	**2880**			333	"	3330		86.5	73.3-97.3	3.75	11.3
Carbazole	**3240**			333	"	3330		97.3	73.2-101.8	4.74	11.5
Fluoranthene	**2960**			333	"	3330		88.9	76.6-100.3	2.39	10.2
Pyrene	**2970**			333	"	3330		89.2	75.7-109	2.39	14.1
Chrysene	**2930**			333	"	3330		88.0	80.4-105	4.18	12.5
Benzo (a) anthracene	**3140**			333	"	3330		94.3	81.6-105.2	1.93	12.1
Benzo (b) fluoranthene	**3010**			333	"	3330		90.4	77.5-108.1	1.00	11.8

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Superfund, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Indiana Harbor Project Number: [none] Project Manager: Betty Lavis	**Reported:** Jul-16-03 17:00

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Batch B305027 - BP SVOA

LCS Dup (B305027-BSD1) **Prepared: May-27-03 Analyzed: Jun-02-03**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Benzo (k) fluoranthene	**3030**			333	ug/kg wet	3330		91.0	74-108.1	11.5	13.8
Benzo (a) pyrene	**3040**			333	"	3330		91.3	77.9-105.4	1.66	10.2
Indeno (1,2,3-cd) pyrene	**2920**			333	"	3330		87.7	69-125.3	1.03	40.8
Dibenz (a,h) anthracene	**2930**			333	"	3330		88.0	66.9-119.5	0.685	42.8
Benzo (g,h,i) perylene	**2350**			333	"	3330		70.6	58.6-107	3.46	15.1
Surrogate: Nitrobenzene-d5	*3020*				"	*3330*		*90.7*	*38-104*		
Surrogate: 2-Fluorobiphenyl	*3280*				"	*3330*		*98.5*	*52.1-104*		
Surrogate: Terphenyl-d14	*3360*				"	*3330*		*101*	*62.9-126*		

Matrix Spike (B305027-MS1) **Source: 0305007-40** **Prepared: May-27-03 Analyzed: Jun-13-03**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Naphthalene	**12800**			12200	ug/kg dry	12200	U	105	50-78.4		
2-Methylnaphthalene	**U**			12200	"	12200	U		57.2-88.2		
Acenaphthylene	**U**			12200	"	12200	U		56.6-79.4		
Acenaphthene	**12500**			12200	"	12200	U	102	64.6-91.7		
Dibenzofuran	**13100**			12200	"	12200	U	107	67.7-93.9		
Fluorene	**12900**			12200	"	12200	U	106	69.7-96.8		
Phenanthrene	**13100**			12200	"	12200	U	107	64.3-104.1		
Anthracene	**12900**			12200	"	12200	U	106	68.4-100.1		
Carbazole	**12700**			12200	"	12200	U	104	74.3-98.6		
Fluoranthene	**12900**			12200	"	12200	U	106	53.2-111.1		
Pyrene	**13100**			12200	"	12200	13400	NR	64.5-115.8		
Chrysene	**14400**			12200	"	12200	U	118	62.4-117.1		
Benzo (a) anthracene	**12500**			12200	"	12200	U	102	72.7-111.4		
Benzo (b) fluoranthene	**U**			12200	"	12200	U		57.2-114.9		
Benzo (k) fluoranthene	**14000**			12200	"	12200	U	115	68.6-105.2		
Benzo (a) pyrene	**U**			12200	"	12200	U		62.7-108.5		
Indeno (1,2,3-cd) pyrene	**U**			12200	"	12200	U		65.3-133.5		
Dibenz (a,h) anthracene	**U**			12200	"	12200	U		61.4-125.2		
Benzo (g,h,i) perylene	**U**			12200	"	12200	U		43.1-125		
Surrogate: Nitrobenzene-d5	*11700*				"	*12200*		*95.9*	*38-104*		

Babu Paruchuri, Group Leader

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DRAFT: Semivolatiles by GC/MS - Quality Control
US EPA Region 5 Central Regional Laboratory

Batch B305027 - BP SVOA

Matrix Spike (B305027-MS1) **Source: 0305007-40** **Prepared: May-27-03 Analyzed: Jun-13-03**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: 2-Fluorobiphenyl	*12500*				*ug/kg dry*	*12200*		*102*	*52.1-104*		
Surrogate: Terphenyl-d14	*12000*				*"*	*12200*		*98.4*	*62.9-126*		

Matrix Spike Dup (B305027-MSD1) **Source: 0305007-40** **Prepared: May-27-03 Analyzed: Jul-01-03**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Naphthalene	**U**			12600	ug/kg dry	12600	U		50-78.4		15.3
2-Methylnaphthalene	**U**			12600	"	12600	U		57.2-88.2		13.1
Acenaphthylene	**U**			12600	"	12600	U		56.6-79.4		9.1
Acenaphthene	**U**			12600	"	12600	U		64.6-91.7		10.4
Dibenzofuran	**U**			12600	"	12600	U		67.7-93.9		7.8
Fluorene	**U**			12600	"	12600	U		69.7-96.8		7.3
Phenanthrene	**U**			12600	"	12600	U		64.3-104.1		12.4
Anthracene	**U**			12600	"	12600	U		68.4-100.1		5.5
Carbazole	**U**			12600	"	12600	U		74.3-98.6		13.8
Fluoranthene	**12700**			12600	"	12600	U	101	53.2-111.1	1.56	15.7
Pyrene	**13400**			12600	"	12600	13400	0.00	64.5-115.8	2.26	19.9
Chrysene	**13500**			12600	"	12600	U	107	62.4-117.1	6.45	10.7
Benzo (a) anthracene	**U**			12600	"	12600	U		72.7-111.4		11.4
Benzo (b) fluoranthene	**U**			12600	"	12600	U		57.2-114.9		15.5
Benzo (k) fluoranthene	**U**			12600	"	12600	U		68.6-105.2		12.8
Benzo (a) pyrene	**U**			12600	"	12600	U		62.7-108.5		12.4
Indeno (1,2,3-cd) pyrene	**U**			12600	"	12600	U		65.3-133.5		48.5
Dibenz (a,h) anthracene	**U**			12600	"	12600	U		61.4-125.2		48.1
Benzo (g,h,i) perylene	**U**			12600	"	12600	U		43.1-125		15.6
Surrogate: Nitrobenzene-d5	*12000*				*"*	*12600*		*95.2*	*38-104*		
Surrogate: 2-Fluorobiphenyl	*12200*				*"*	*12600*		*96.8*	*52.1-104*		
Surrogate: Terphenyl-d14	*13000*				*"*	*12600*		*103*	*62.9-126*		

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Superfund, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Indiana Harbor Project Number: [none] Project Manager: Betty Lavis	**Reported:** Jul-16-03 17:00

DRAFT: Semivolatiles by GC/MS - Quality Control
US EPA Region 5 Central Regional Laboratory

Batch B305030 - BP SVOA

Blank (B305030-BLK1) **Prepared: May-28-03 Analyzed: Jun-11-03**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Naphthalene	U			333	ug/kg wet						
2-Methylnaphthalene	U			333	"						
Acenaphthylene	U			333	"						
Acenaphthene	U			333	"						
Dibenzofuran	U			333	"						
Fluorene	U			333	"						
Phenanthrene	U			333	"						
Anthracene	U			333	"						
Carbazole	U			333	"						
Fluoranthene	U			333	"						
Pyrene	U			333	"						
Chrysene	U			333	"						
Benzo (a) anthracene	U			333	"						
Benzo (b) fluoranthene	U			333	"						
Benzo (k) fluoranthene	U			333	"						
Benzo (a) pyrene	U			333	"						
Indeno (1,2,3-cd) pyrene	U			333	"						
Dibenz (a,h) anthracene	U			333	"						
Benzo (g,h,i) perylene	U	J		333	"						
Surrogate: Nitrobenzene-d5	*2740*				"	*3330*		*82.3*	*38-104*		
Surrogate: 2-Fluorobiphenyl	*2900*				"	*3330*		*87.1*	*52.1-104*		
Surrogate: Terphenyl-d14	*3110*				"	*3330*		*93.4*	*62.9-126*		

LCS (B305030-BS1) **Prepared: May-28-03 Analyzed: Jun-11-03**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Naphthalene	**2600**			333	ug/kg wet	3330		78.1	46.6-93.7		
2-Methylnaphthalene	**2690**			333	"	3330		80.8	55.2-95.6		
Acenaphthylene	**2720**			333	"	3330		81.7	51.2-96.9		
Acenaphthene	**2830**			333	"	3330		85.0	62.4-96.2		
Dibenzofuran	**2840**			333	"	3330		85.3	63.3-99.5		
Fluorene	**2650**			333	"	3330		79.6	65.4-100.5		
Phenanthrene	**2940**			333	"	3330		88.3	73.2-98.4		

Babu Paruchuri, Group Leader

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Superfund, US EPA Region 5	Project: Indiana Harbor	
77 West Jackson Boulevard	Project Number: [none]	**Reported:**
Chicago IL, 60604	Project Manager: Betty Lavis	Jul-16-03 17:00

DRAFT: Semivolatiles by GC/MS - Quality Control
US EPA Region 5 Central Regional Laboratory

Batch B305030 - BP SVOA

LCS (B305030-BS1) **Prepared: May-28-03 Analyzed: Jun-11-03**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Anthracene	**2810**			333	ug/kg wet	3330		84.4	73.3-97.3		
Carbazole	**3150**			333	"	3330		94.6	73.2-101.8		
Fluoranthene	**2920**			333	"	3330		87.7	76.6-100.3		
Pyrene	**2980**			333	"	3330		89.5	75.7-109		
Chrysene	**3010**			333	"	3330		90.4	80.4-105		
Benzo (a) anthracene	**3050**			333	"	3330		91.6	81.6-105.2		
Benzo (b) fluoranthene	**3120**			333	"	3330		93.7	77.5-108.1		
Benzo (k) fluoranthene	**3020**			333	"	3330		90.7	74-108.1		
Benzo (a) pyrene	**3040**			333	"	3330		91.3	77.9-105.4		
Indeno (1,2,3-cd) pyrene	**3250**			333	"	3330		97.6	69-125.3		
Dibenz (a,h) anthracene	**3190**			333	"	3330		95.8	66.9-119.5		
Benzo (g,h,i) perylene	**3150**			333	"	3330		94.6	58.6-107		
Surrogate: Nitrobenzene-d5	*2930*				"	*3330*		*88.0*	*38-104*		
Surrogate: 2-Fluorobiphenyl	*2860*				"	*3330*		*85.9*	*52.1-104*		
Surrogate: Terphenyl-d14	*3220*				"	*3330*		*96.7*	*62.9-126*		

LCS Dup (B305030-BSD1) **Prepared: May-28-03 Analyzed: Jun-11-03**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Naphthalene	**2700**			333	ug/kg wet	3330		81.1	46.6-93.7	3.77	20.5
2-Methylnaphthalene	**2560**			333	"	3330		76.9	55.2-95.6	4.95	21.8
Acenaphthylene	**2850**			333	"	3330		85.6	51.2-96.9	4.67	19.4
Acenaphthene	**2950**			333	"	3330		88.6	62.4-96.2	4.15	18.1
Dibenzofuran	**3010**			333	"	3330		90.4	63.3-99.5	5.81	16.6
Fluorene	**3160**			333	"	3330		94.9	65.4-100.5	17.6	19
Phenanthrene	**3110**			333	"	3330		93.4	73.2-98.4	5.62	12.5
Anthracene	**2990**			333	"	3330		89.8	73.3-97.3	6.21	11.3
Carbazole	**3310**			333	"	3330		99.4	73.2-101.8	4.95	11.5
Fluoranthene	**3060**			333	"	3330		91.9	76.6-100.3	4.68	10.2
Pyrene	**3230**			333	"	3330		97.0	75.7-109	8.05	14.1
Chrysene	**3230**			333	"	3330		97.0	80.4-105	7.05	12.5
Benzo (a) anthracene	**3330**			333	"	3330		100	81.6-105.2	8.78	12.1
Benzo (b) fluoranthene	**3250**			333	"	3330		97.6	77.5-108.1	4.08	11.8

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DRAFT: Semivolatiles by GC/MS - Quality Control
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Batch B305030 - BP SVOA

LCS Dup (B305030-BSD1) **Prepared: May-28-03 Analyzed: Jun-11-03**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Benzo (k) fluoranthene	**3500**			333	ug/kg wet	3330		105	74-108.1	14.7	13.8
Benzo (a) pyrene	**3260**			333	"	3330		97.9	77.9-105.4	6.98	10.2
Indeno (1,2,3-cd) pyrene	**3570**			333	"	3330		107	69-125.3	9.38	40.8
Dibenz (a,h) anthracene	**3500**			333	"	3330		105	66.9-119.5	9.27	42.8
Benzo (g,h,i) perylene	**3480**			333	"	3330		105	58.6-107	9.95	15.1
Surrogate: Nitrobenzene-d5	*3440*				"	*3330*		*103*	*38-104*		
Surrogate: 2-Fluorobiphenyl	*3000*				"	*3330*		*90.1*	*52.1-104*		
Surrogate: Terphenyl-d14	*3490*				"	*3330*		*105*	*62.9-126*		

Matrix Spike (B305030-MS1) **Source: 0305007-25** **Prepared: May-28-03 Analyzed: Jun-12-03**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Naphthalene	**10600**			10000	ug/kg dry	10100	U	105	50-78.4		
2-Methylnaphthalene	**U**			10000	"	10100	U		57.2-88.2		
Acenaphthylene	**10300**			10000	"	10100	U	102	56.6-79.4		
Acenaphthene	**11000**			10000	"	10100	U	109	64.6-91.7		
Dibenzofuran	**10800**			10000	"	10100	U	107	67.7-93.9		
Fluorene	**11300**			10000	"	10100	U	112	69.7-96.8		
Phenanthrene	**12700**			10000	"	10100	U	126	64.3-104.1		
Anthracene	**12100**			10000	"	10100	U	120	68.4-100.1		
Carbazole	**11500**			10000	"	10100	U	114	74.3-98.6		
Fluoranthene	**18200**			10000	"	10100	U	180	53.2-111.1		
Pyrene	**71000**			10000	"	10100	52000	188	64.5-115.8		
Chrysene	**52700**			10000	"	10100	38300	143	62.4-117.1		
Benzo (a) anthracene	**23900**			10000	"	10100	U	237	72.7-111.4		
Benzo (b) fluoranthene	**28700**			10000	"	10100	13900	147	57.2-114.9		
Benzo (k) fluoranthene	**14200**			10000	"	10100	U	141	68.6-105.2		
Benzo (a) pyrene	**30200**			10000	"	10100	U	299	62.7-108.5		
Indeno (1,2,3-cd) pyrene	**19500**			10000	"	10100	U	193	65.3-133.5		
Dibenz (a,h) anthracene	**18700**			10000	"	10100	U	185	61.4-125.2		
Benzo (g,h,i) perylene	**21000**			10000	"	10100	U	208	43.1-125		
Surrogate: Nitrobenzene-d5	*10400*				"	*10100*		*103*	*38-104*		

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Superfund, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Indiana Harbor Project Number: [none] Project Manager: Betty Lavis	**Reported:** Jul-16-03 17:00

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Batch B305030 - BP SVOA

Matrix Spike (B305030-MS1) **Source: 0305007-25** **Prepared: May-28-03 Analyzed: Jun-12-03**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: 2-Fluorobiphenyl	*11100*				*ug/kg dry*	*10100*		*110*	*52.1-104*		
Surrogate: Terphenyl-d14	*13500*				*"*	*10100*		*134*	*62.9-126*		

Matrix Spike Dup (B305030-MSD1) **Source: 0305007-25** **Prepared: May-28-03 Analyzed: Jun-12-03**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Naphthalene	**U**			10000	ug/kg dry	10100	U		50-78.4		15.3
2-Methylnaphthalene	**U**			10000	"	10100	U		57.2-88.2		13.1
Acenaphthylene	**U**			10000	"	10100	U		56.6-79.4		9.1
Acenaphthene	**U**			10000	"	10100	U		64.6-91.7		10.4
Dibenzofuran	**U**			10000	"	10100	U		67.7-93.9		7.8
Fluorene	**10100**			10000	"	10100	U	100	69.7-96.8	11.2	7.3
Phenanthrene	**10900**			10000	"	10100	U	108	64.3-104.1	15.3	12.4
Anthracene	**11200**			10000	"	10100	U	111	68.4-100.1	7.73	5.5
Carbazole	**10300**			10000	"	10100	U	102	74.3-98.6	11.0	13.8
Fluoranthene	**16600**			10000	"	10100	U	164	53.2-111.1	9.20	15.7
Pyrene	**67700**			10000	"	10100	52000	155	64.5-115.8	4.76	19.9
Chrysene	**49000**			10000	"	10100	38300	106	62.4-117.1	7.28	10.7
Benzo (a) anthracene	**22100**			10000	"	10100	U	219	72.7-111.4	7.83	11.4
Benzo (b) fluoranthene	**26000**			10000	"	10100	13900	120	57.2-114.9	9.87	15.5
Benzo (k) fluoranthene	**13500**			10000	"	10100	U	134	68.6-105.2	5.05	12.8
Benzo (a) pyrene	**28700**			10000	"	10100	U	284	62.7-108.5	5.09	12.4
Indeno (1,2,3-cd) pyrene	**17000**			10000	"	10100	U	168	65.3-133.5	13.7	48.5
Dibenz (a,h) anthracene	**15900**			10000	"	10100	U	157	61.4-125.2	16.2	48.1
Benzo (g,h,i) perylene	**19200**			10000	"	10100	U	190	43.1-125	8.96	15.6
Surrogate: Nitrobenzene-d5	*8850*				*"*	*10100*		*87.6*	*38-104*		
Surrogate: 2-Fluorobiphenyl	*9730*				*"*	*10100*		*96.3*	*52.1-104*		
Surrogate: Terphenyl-d14	*11500*				*"*	*10100*		*114*	*62.9-126*		

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Batch B306001 - BP SVOA

Blank (B306001-BLK1) **Prepared: Jun-04-03 Analyzed: Jul-01-03**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Naphthalene	U			333	ug/kg wet						
2-Methylnaphthalene	U			333	"						
Acenaphthylene	U			333	"						
Acenaphthene	U			333	"						
Dibenzofuran	U			333	"						
Fluorene	U			333	"						
Phenanthrene	U			333	"						
Anthracene	U			333	"						
Carbazole	U			333	"						
Fluoranthene	U			333	"						
Pyrene	U			333	"						
Chrysene	U			333	"						
Benzo (a) anthracene	U			333	"						
Benzo (b) fluoranthene	U			333	"						
Benzo (k) fluoranthene	U			333	"						
Benzo (a) pyrene	U			333	"						
Indeno (1,2,3-cd) pyrene	U			333	"						
Dibenz (a,h) anthracene	U			333	"						
Benzo (g,h,i) perylene	U			333	"						
Surrogate: Nitrobenzene-d5	*3080*				"	*3330*		*92.5*	*38-104*		
Surrogate: 2-Fluorobiphenyl	*3050*				"	*3330*		*91.6*	*52.1-104*		
Surrogate: Terphenyl-d14	*3430*				"	*3330*		*103*	*62.9-126*		

LCS (B306001-BS1) **Prepared: Jun-04-03 Analyzed: Jul-01-03**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Naphthalene	**2650**			333	ug/kg wet	3330		79.6	46.6-93.7		
2-Methylnaphthalene	**2810**			333	"	3330		84.4	55.2-95.6		
Acenaphthylene	**2820**			333	"	3330		84.7	51.2-96.9		
Acenaphthene	**2920**			333	"	3330		87.7	62.4-96.2		
Dibenzofuran	**2880**			333	"	3330		86.5	63.3-99.5		
Fluorene	**2990**			333	"	3330		89.8	65.4-100.5		
Phenanthrene	**2980**			333	"	3330		89.5	73.2-98.4		

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Batch B306001 - BP SVOA

LCS (B306001-BS1) **Prepared: Jun-04-03 Analyzed: Jul-01-03**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Anthracene	**2970**			333	ug/kg wet	3330		89.2	73.3-97.3		
Carbazole	**3270**			333	"	3330		98.2	73.2-101.8		
Fluoranthene	**3030**			333	"	3330		91.0	76.6-100.3		
Pyrene	**3050**			333	"	3330		91.6	75.7-109		
Chrysene	**3000**			333	"	3330		90.1	80.4-105		
Benzo (a) anthracene	**3190**			333	"	3330		95.8	81.6-105.2		
Benzo (b) fluoranthene	**3450**			333	"	3330		104	77.5-108.1		
Benzo (k) fluoranthene	**3060**			333	"	3330		91.9	74-108.1		
Benzo (a) pyrene	**3200**			333	"	3330		96.1	77.9-105.4		
Indeno (1,2,3-cd) pyrene	**3290**			333	"	3330		98.8	69-125.3		
Dibenz (a,h) anthracene	**3360**			333	"	3330		101	66.9-119.5		
Benzo (g,h,i) perylene	**2880**			333	"	3330		86.5	58.6-107		
Surrogate: Nitrobenzene-d5	*2770*				"	*3330*		*83.2*	*38-104*		
Surrogate: 2-Fluorobiphenyl	*2840*				"	*3330*		*85.3*	*52.1-104*		
Surrogate: Terphenyl-d14	*3130*				"	*3330*		*94.0*	*62.9-126*		

LCS Dup (B306001-BSD1) **Prepared: Jun-04-03 Analyzed: Jul-01-03**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Naphthalene	**2560**			333	ug/kg wet	3330		76.9	46.6-93.7	3.45	20.5
2-Methylnaphthalene	**2710**			333	"	3330		81.4	55.2-95.6	3.62	21.8
Acenaphthylene	**2770**			333	"	3330		83.2	51.2-96.9	1.79	19.4
Acenaphthene	**2850**			333	"	3330		85.6	62.4-96.2	2.43	18.1
Dibenzofuran	**2820**			333	"	3330		84.7	63.3-99.5	2.11	16.6
Fluorene	**2910**			333	"	3330		87.4	65.4-100.5	2.71	19
Phenanthrene	**2930**			333	"	3330		88.0	73.2-98.4	1.69	12.5
Anthracene	**2900**			333	"	3330		87.1	73.3-97.3	2.39	11.3
Carbazole	**3190**			333	"	3330		95.8	73.2-101.8	2.48	11.5
Fluoranthene	**2950**			333	"	3330		88.6	76.6-100.3	2.68	10.2
Pyrene	**2980**			333	"	3330		89.5	75.7-109	2.32	14.1
Chrysene	**2910**			333	"	3330		87.4	80.4-105	3.05	12.5
Benzo (a) anthracene	**3130**			333	"	3330		94.0	81.6-105.2	1.90	12.1
Benzo (b) fluoranthene	**3320**			333	"	3330		99.7	77.5-108.1	3.84	11.8

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Batch B306001 - BP SVOA

LCS Dup (B306001-BSD1) **Prepared: Jun-04-03 Analyzed: Jul-01-03**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Benzo (k) fluoranthene	**3270**			333	ug/kg wet	3330		98.2	74-108.1	6.64	13.8
Benzo (a) pyrene	**3140**			333	"	3330		94.3	77.9-105.4	1.89	10.2
Indeno (1,2,3-cd) pyrene	**3250**			333	"	3330		97.6	69-125.3	1.22	40.8
Dibenz (a,h) anthracene	**3340**			333	"	3330		100	66.9-119.5	0.597	42.8
Benzo (g,h,i) perylene	**2780**			333	"	3330		83.5	58.6-107	3.53	15.1
Surrogate: Nitrobenzene-d5	*2800*				"	*3330*		*84.1*	*38-104*		
Surrogate: 2-Fluorobiphenyl	*2920*				"	*3330*		*87.7*	*52.1-104*		
Surrogate: Terphenyl-d14	*3190*				"	*3330*		*95.8*	*62.9-126*		

Matrix Spike (B306001-MS1) **Source: 0305007-35** **Prepared: Jun-04-03 Analyzed: Jun-13-03**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Naphthalene	**U**			3260	ug/kg dry	6520	U		50-78.4		
2-Methylnaphthalene	**U**			3260	"	6520	U		57.2-88.2		
Acenaphthylene	**U**			3260	"	6520	U		56.6-79.4		
Acenaphthene	**3650**			3260	"	6520	U	56.0	64.6-91.7		
Dibenzofuran	**U**			3260	"	6520	U		67.7-93.9		
Fluorene	**3840**			3260	"	6520	U	58.9	69.7-96.8		
Phenanthrene	**5140**			3260	"	6520	3400	26.7	64.3-104.1		
Anthracene	**3290**			3260	"	6520	U	50.5	68.4-100.1		
Carbazole	**U**			3260	"	6520	U		74.3-98.6		
Fluoranthene	**3310**			3260	"	6520	U	50.8	53.2-111.1		
Pyrene	**4240**			3260	"	6520	U	65.0	64.5-115.8		
Chrysene	**3770**			3260	"	6520	U	57.8	62.4-117.1		
Benzo (a) anthracene	**U**			3260	"	6520	U		72.7-111.4		
Benzo (b) fluoranthene	**U**			3260	"	6520	U		57.2-114.9		
Benzo (k) fluoranthene	**3720**			3260	"	6520	U	57.1	68.6-105.2		
Benzo (a) pyrene	**U**			3260	"	6520	U		62.7-108.5		
Indeno (1,2,3-cd) pyrene	**U**			3260	"	6520	U		65.3-133.5		
Dibenz (a,h) anthracene	**U**			3260	"	6520	U		61.4-125.2		
Benzo (g,h,i) perylene	**U**			3260	"	6520	U		43.1-125		
Surrogate: Nitrobenzene-d5	*2660*				"	*6520*		*40.8*	*38-104*		

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Batch B306001 - BP SVOA

Matrix Spike (B306001-MS1) **Source: 0305007-35** **Prepared: Jun-04-03 Analyzed: Jun-13-03**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: 2-Fluorobiphenyl	*2940*				*ug/kg dry*	*6520*		*45.1*	*52.1-104*		
Surrogate: Terphenyl-d14	*3210*				*"*	*6520*		*49.2*	*62.9-126*		

Matrix Spike Dup (B306001-MSD1) **Source: 0305007-35** **Prepared: Jun-04-03 Analyzed: Jun-13-03**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Naphthalene	**6890**			3240	ug/kg dry	6490	U	106	50-78.4		15.3
2-Methylnaphthalene	**6080**			3240	"	6490	U	93.7	57.2-88.2		13.1
Acenaphthylene	**7140**			3240	"	6490	U	110	56.6-79.4		9.1
Acenaphthene	**8410**			3240	"	6490	U	130	64.6-91.7	78.9	10.4
Dibenzofuran	**7100**			3240	"	6490	U	109	67.7-93.9		7.8
Fluorene	**9000**			3240	"	6490	U	139	69.7-96.8	80.4	7.3
Phenanthrene	**11100**			3240	"	6490	3400	119	64.3-104.1	73.4	12.4
Anthracene	**7540**			3240	"	6490	U	116	68.4-100.1	78.5	5.5
Carbazole	**7580**			3240	"	6490	U	117	74.3-98.6		13.8
Fluoranthene	**8410**			3240	"	6490	U	130	53.2-111.1	87.0	15.7
Pyrene	**8520**			3240	"	6490	U	131	64.5-115.8	67.1	19.9
Chrysene	**7690**			3240	"	6490	U	118	62.4-117.1	68.4	10.7
Benzo (a) anthracene	**7050**			3240	"	6490	U	109	72.7-111.4		11.4
Benzo (b) fluoranthene	**6860**			3240	"	6490	U	106	57.2-114.9		15.5
Benzo (k) fluoranthene	**7100**			3240	"	6490	U	109	68.6-105.2	62.5	12.8
Benzo (a) pyrene	**6120**			3240	"	6490	U	94.3	62.7-108.5		12.4
Indeno (1,2,3-cd) pyrene	**6210**			3240	"	6490	U	95.7	65.3-133.5		48.5
Dibenz (a,h) anthracene	**5920**			3240	"	6490	U	91.2	61.4-125.2		48.1
Benzo (g,h,i) perylene	**6300**			3240	"	6490	U	97.1	43.1-125		15.6
Surrogate: Nitrobenzene-d5	*6620*				*"*	*6490*		*102*	*38-104*		
Surrogate: 2-Fluorobiphenyl	*6060*				*"*	*6490*		*93.4*	*52.1-104*		
Surrogate: Terphenyl-d14	*6210*				*"*	*6490*		*95.7*	*62.9-126*		

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Batch B306014 - BP SVOA

Blank (B306014-BLK1) **Prepared: Jun-12-03 Analyzed: Jul-01-03**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Naphthalene	U			333	ug/kg wet						
2-Methylnaphthalene	U			333	"						
Acenaphthylene	U			333	"						
Acenaphthene	U			333	"						
Dibenzofuran	U			333	"						
Fluorene	U			333	"						
Phenanthrene	U			333	"						
Anthracene	U			333	"						
Carbazole	U			333	"						
Fluoranthene	U			333	"						
Pyrene	U			333	"						
Chrysene	U			333	"						
Benzo (a) anthracene	U			333	"						
Benzo (b) fluoranthene	U			333	"						
Benzo (k) fluoranthene	U			333	"						
Benzo (a) pyrene	U			333	"						
Indeno (1,2,3-cd) pyrene	U			333	"						
Dibenz (a,h) anthracene	U			333	"						
Benzo (g,h,i) perylene	U			333	"						
Surrogate: Nitrobenzene-d5	*2220*				"	*3330*		*66.7*	*38-104*		
Surrogate: 2-Fluorobiphenyl	*2200*				"	*3330*		*66.1*	*52.1-104*		
Surrogate: Terphenyl-d14	*3020*				"	*3330*		*90.7*	*62.9-126*		

LCS (B306014-BS1) **Prepared: Jun-12-03 Analyzed: Jul-01-03**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Naphthalene	**2240**			333	ug/kg wet	3330		67.3	46.6-93.7		
2-Methylnaphthalene	**2320**			333	"	3330		69.7	55.2-95.6		
Acenaphthylene	**2390**			333	"	3330		71.8	51.2-96.9		
Acenaphthene	**2430**			333	"	3330		73.0	62.4-96.2		
Dibenzofuran	**2440**			333	"	3330		73.3	63.3-99.5		
Fluorene	**2530**			333	"	3330		76.0	65.4-100.5		
Phenanthrene	**2640**			333	"	3330		79.3	73.2-98.4		

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Batch B306014 - BP SVOA

LCS (B306014-BS1) **Prepared: Jun-12-03 Analyzed: Jul-01-03**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Anthracene	**2630**			333	ug/kg wet	3330		79.0	73.3-97.3		
Carbazole	**2900**			333	"	3330		87.1	73.2-101.8		
Fluoranthene	**2740**			333	"	3330		82.3	76.6-100.3		
Pyrene	**2790**			333	"	3330		83.8	75.7-109		
Chrysene	**2790**			333	"	3330		83.8	80.4-105		
Benzo (a) anthracene	**2870**			333	"	3330		86.2	81.6-105.2		
Benzo (b) fluoranthene	**3000**			333	"	3330		90.1	77.5-108.1		
Benzo (k) fluoranthene	**2630**			333	"	3330		79.0	74-108.1		
Benzo (a) pyrene	**2880**			333	"	3330		86.5	77.9-105.4		
Indeno (1,2,3-cd) pyrene	**2890**			333	"	3330		86.8	69-125.3		
Dibenz (a,h) anthracene	**2940**			333	"	3330		88.3	66.9-119.5		
Benzo (g,h,i) perylene	**3070**			333	"	3330		92.2	58.6-107		
Surrogate: Nitrobenzene-d5	*2380*				"	*3330*		*71.5*	*38-104*		
Surrogate: 2-Fluorobiphenyl	*2440*				"	*3330*		*73.3*	*52.1-104*		
Surrogate: Terphenyl-d14	*2960*				"	*3330*		*88.9*	*62.9-126*		

LCS Dup (B306014-BSD1) **Prepared: Jun-12-03 Analyzed: Jul-01-03**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Naphthalene	**2560**			333	ug/kg wet	3330		76.9	46.6-93.7	13.3	20.5
2-Methylnaphthalene	**2650**			333	"	3330		79.6	55.2-95.6	13.3	21.8
Acenaphthylene	**2660**			333	"	3330		79.9	51.2-96.9	10.7	19.4
Acenaphthene	**2750**			333	"	3330		82.6	62.4-96.2	12.4	18.1
Dibenzofuran	**2700**			333	"	3330		81.1	63.3-99.5	10.1	16.6
Fluorene	**2770**			333	"	3330		83.2	65.4-100.5	9.06	19
Phenanthrene	**2770**			333	"	3330		83.2	73.2-98.4	4.81	12.5
Anthracene	**2750**			333	"	3330		82.6	73.3-97.3	4.46	11.3
Carbazole	**3000**			333	"	3330		90.1	73.2-101.8	3.39	11.5
Fluoranthene	**2790**			333	"	3330		83.8	76.6-100.3	1.81	10.2
Pyrene	**2830**			333	"	3330		85.0	75.7-109	1.42	14.1
Chrysene	**2860**			333	"	3330		85.9	80.4-105	2.48	12.5
Benzo (a) anthracene	**2920**			333	"	3330		87.7	81.6-105.2	1.73	12.1
Benzo (b) fluoranthene	**3110**			333	"	3330		93.4	77.5-108.1	3.60	11.8

Babu Paruchuri, Group Leader

Environmental Protection Agency Region 5
Central Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Indiana Harbor Project Number: [none] Project Manager: Betty Lavis	**Reported:** Jul-16-03 17:00

DRAFT: Semivolatiles by GC/MS - Quality Control
US EPA Region 5 Central Regional Laboratory

Batch B306014 - BP SVOA

LCS Dup (B306014-BSD1) **Prepared: Jun-12-03 Analyzed: Jul-01-03**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Benzo (k) fluoranthene	**2590**			333	ug/kg wet	3330		77.8	74-108.1	1.53	13.8
Benzo (a) pyrene	**2980**			333	"	3330		89.5	77.9-105.4	3.41	10.2
Indeno (1,2,3-cd) pyrene	**3050**			333	"	3330		91.6	69-125.3	5.39	40.8
Dibenz (a,h) anthracene	**3070**			333	"	3330		92.2	66.9-119.5	4.33	42.8
Benzo (g,h,i) perylene	**3310**			333	"	3330		99.4	58.6-107	7.52	15.1
Surrogate: Nitrobenzene-d5	*2730*				"	*3330*		*82.0*	*38-104*		
Surrogate: 2-Fluorobiphenyl	*2760*				"	*3330*		*82.9*	*52.1-104*		
Surrogate: Terphenyl-d14	*2990*				"	*3330*		*89.8*	*62.9-126*		

Babu Paruchuri, Group Leader

Environmental Protection Agency Region 5
Central Regional Laboratory
536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Indiana Harbor Project Number: [none] Project Manager: Betty Lavis	**Reported:** Jul-16-03 17:00

Notes and Definitions

J	The identification of the analyte is acceptable; the reported value is an estimate.
K	The identification of the analyte is acceptable; the reported value may be biased high. The actual value is expected to be less than the reported value.
U	Not Detected
NR	Not Reported

Items for Project Manager Review

LabNumber	Analysis	Analyte	Exception
			Default Report (not modified)
0305007-01	SVOA - PAHs		Status is Analyzed
0305007-02	SVOA - PAHs		Status is Analyzed
0305007-03	SVOA - PAHs		Status is Analyzed
0305007-04	SVOA - PAHs	Terphenyl-d14	Exceeds lower control limit
0305007-04	SVOA - PAHs		Status is Analyzed
0305007-05	SVOA - PAHs	Terphenyl-d14	Exceeds lower control limit
0305007-05	SVOA - PAHs		Status is Analyzed
0305007-06	SVOA - PAHs		Status is Analyzed
0305007-07	SVOA - PAHs		Status is Analyzed
0305007-08	SVOA - PAHs	Nitrobenzene-d5	Exceeds upper control limit
0305007-08	SVOA - PAHs		Status is Analyzed
0305007-09	SVOA - PAHs		Status is Analyzed
0305007-10	SVOA - PAHs		Status is Analyzed
0305007-11	SVOA - PAHs		Status is Analyzed
0305007-12	SVOA - PAHs		Status is Analyzed
0305007-13	SVOA - PAHs		Status is Analyzed
0305007-14	SVOA - PAHs		Status is Analyzed
0305007-15	SVOA - PAHs		Status is Analyzed
0305007-16	SVOA - PAHs		Status is Analyzed
0305007-17	SVOA - PAHs		Status is Analyzed
0305007-18	SVOA - PAHs		Status is Analyzed
0305007-19	SVOA - PAHs		Status is Analyzed
0305007-20	SVOA - PAHs	Terphenyl-d14	Exceeds upper control limit
0305007-20	SVOA - PAHs		Status is Analyzed
0305007-21	SVOA - PAHs		Status is Analyzed
0305007-22	SVOA - PAHs		Status is Analyzed
0305007-23	SVOA - PAHs		Status is Analyzed
0305007-24	SVOA - PAHs	Terphenyl-d14	Exceeds upper control limit
0305007-24	SVOA - PAHs		Status is Analyzed
0305007-25	SVOA - PAHs	Chrysene	K
0305007-25	SVOA - PAHs	Pyrene	K
0305007-25	SVOA - PAHs		Status is Analyzed
0305007-25	SVOA - PAHs	2-Fluorobiphenyl	Exceeds upper control limit
0305007-25	SVOA - PAHs	Nitrobenzene-d5	Exceeds upper control limit
0305007-25	SVOA - PAHs	Terphenyl-d14	Exceeds upper control limit
0305007-25	SVOA - PAHs	Benzo (b) fluoranthene	K
0305007-26	SVOA - PAHs		Status is Analyzed
0305007-27	SVOA - PAHs		Status is Analyzed
0305007-28	SVOA - PAHs		Status is Analyzed
0305007-29	SVOA - PAHs		Status is Analyzed
0305007-30	SVOA - PAHs		Status is Analyzed
0305007-31	SVOA - PAHs		Status is Analyzed
0305007-32	SVOA - PAHs		Status is Analyzed
0305007-33	SVOA - PAHs		Status is Analyzed
0305007-34	SVOA - PAHs		Status is Analyzed
0305007-35	SVOA - PAHs	Phenanthrene	K
0305007-35	SVOA - PAHs		Status is Analyzed
0305007-36	SVOA - PAHs		Status is Analyzed
0305007-37	SVOA - PAHs		Sampled->Prepared > 14.00 days

Items for Project Manager Review

LabNumber	Analysis	Analyte	Exception
0305007-37	SVOA - PAHs		Status is Analyzed
0305007-38	SVOA - PAHs		Status is Analyzed
0305007-39	SVOA - PAHs		Status is Analyzed
0305007-39	SVOA - PAHs	Terphenyl-d14	Exceeds upper control limit
0305007-40	SVOA - PAHs		Status is Analyzed
B305027-MS1	SVOA - PAHs	Pyrene	Exceeds lower control limit
B305027-MS1	SVOA - PAHs	Acenaphthene	Exceeds upper control limit
B305027-MS1	SVOA - PAHs	Anthracene	Exceeds upper control limit
B305027-MS1	SVOA - PAHs	Dibenz (a,h) anthracene	Spike recovery below MDL
B305027-MS1	SVOA - PAHs	Benzo (g,h,i) perylene	Spike recovery below MDL
B305027-MS1	SVOA - PAHs	2-Methylnaphthalene	Spike recovery below MDL
B305027-MS1	SVOA - PAHs	Acenaphthylene	Spike recovery below MDL
B305027-MS1	SVOA - PAHs	Benzo (b) fluoranthene	Spike recovery below MDL
B305027-MS1	SVOA - PAHs	Benzo (a) pyrene	Spike recovery below MDL
B305027-MS1	SVOA - PAHs	Fluorene	Exceeds upper control limit
B305027-MS1	SVOA - PAHs	Naphthalene	Exceeds upper control limit
B305027-MS1	SVOA - PAHs	Phenanthrene	Exceeds upper control limit
B305027-MS1	SVOA - PAHs	Benzo (k) fluoranthene	Exceeds upper control limit
B305027-MS1	SVOA - PAHs	Chrysene	Exceeds upper control limit
B305027-MS1	SVOA - PAHs	Carbazole	Exceeds upper control limit
B305027-MS1	SVOA - PAHs	Dibenzofuran	Exceeds upper control limit
B305027-MS1	SVOA - PAHs	Indeno (1,2,3-cd) pyrene	Spike recovery below MDL
B305027-MSD1	SVOA - PAHs	Naphthalene	Spike recovery below MDL
B305027-MSD1	SVOA - PAHs	Pyrene	Exceeds lower control limit
B305027-MSD1	SVOA - PAHs	Indeno (1,2,3-cd) pyrene	Spike recovery below MDL
B305027-MSD1	SVOA - PAHs	Benzo (b) fluoranthene	Spike recovery below MDL
B305027-MSD1	SVOA - PAHs	Fluorene	Spike recovery below MDL
B305027-MSD1	SVOA - PAHs	Benzo (k) fluoranthene	Spike recovery below MDL
B305027-MSD1	SVOA - PAHs	Benzo (g,h,i) perylene	Spike recovery below MDL
B305027-MSD1	SVOA - PAHs	Acenaphthylene	Spike recovery below MDL
B305027-MSD1	SVOA - PAHs	Benzo (a) pyrene	Spike recovery below MDL
B305027-MSD1	SVOA - PAHs	Dibenzofuran	Spike recovery below MDL
B305027-MSD1	SVOA - PAHs	Carbazole	Spike recovery below MDL
B305027-MSD1	SVOA - PAHs	Phenanthrene	Spike recovery below MDL
B305027-MSD1	SVOA - PAHs	2-Methylnaphthalene	Spike recovery below MDL
B305027-MSD1	SVOA - PAHs	Acenaphthene	Spike recovery below MDL
B305027-MSD1	SVOA - PAHs	Anthracene	Spike recovery below MDL
B305027-MSD1	SVOA - PAHs	Benzo (a) anthracene	Spike recovery below MDL
B305027-MSD1	SVOA - PAHs	Dibenz (a,h) anthracene	Spike recovery below MDL
B305030-BSD1	SVOA - PAHs	Benzo (k) fluoranthene	Exceeds RPD limit
B305030-MS1	SVOA - PAHs	Benzo (b) fluoranthene	Exceeds upper control limit
B305030-MS1	SVOA - PAHs	Phenanthrene	Exceeds upper control limit
B305030-MS1	SVOA - PAHs	Benzo (a) pyrene	Exceeds upper control limit
B305030-MS1	SVOA - PAHs	Benzo (a) anthracene	Exceeds upper control limit
B305030-MS1	SVOA - PAHs	Anthracene	Exceeds upper control limit
B305030-MS1	SVOA - PAHs	Acenaphthylene	Exceeds upper control limit
B305030-MS1	SVOA - PAHs	2-Fluorobiphenyl	Exceeds upper control limit
B305030-MS1	SVOA - PAHs	Acenaphthene	Exceeds upper control limit
B305030-MS1	SVOA - PAHs	Naphthalene	Exceeds upper control limit
B305030-MS1	SVOA - PAHs	Indeno (1,2,3-cd) pyrene	Exceeds upper control limit

Items for Project Manager Review

LabNumber	Analysis	Analyte	Exception
B305030-MS1	SVOA - PAHs	Benzo (g,h,i) perylene	Exceeds upper control limit
B305030-MS1	SVOA - PAHs	2-Methylnaphthalene	Spike recovery below MDL
B305030-MS1	SVOA - PAHs	Pyrene	Exceeds upper control limit
B305030-MS1	SVOA - PAHs	Fluorene	Exceeds upper control limit
B305030-MS1	SVOA - PAHs	Fluoranthene	Exceeds upper control limit
B305030-MS1	SVOA - PAHs	Dibenzofuran	Exceeds upper control limit
B305030-MS1	SVOA - PAHs	Dibenz (a,h) anthracene	Exceeds upper control limit
B305030-MS1	SVOA - PAHs	Chrysene	Exceeds upper control limit
B305030-MS1	SVOA - PAHs	Carbazole	Exceeds upper control limit
B305030-MS1	SVOA - PAHs	Benzo (k) fluoranthene	Exceeds upper control limit
B305030-MS1	SVOA - PAHs	Terphenyl-d14	Exceeds upper control limit
B305030-MSD1	SVOA - PAHs	2-Methylnaphthalene	Spike recovery below MDL
B305030-MSD1	SVOA - PAHs	Naphthalene	Spike recovery below MDL
B305030-MSD1	SVOA - PAHs	Fluoranthene	Exceeds upper control limit
B305030-MSD1	SVOA - PAHs	Fluorene	Exceeds upper control limit
B305030-MSD1	SVOA - PAHs	Indeno (1,2,3-cd) pyrene	Exceeds upper control limit
B305030-MSD1	SVOA - PAHs	Anthracene	Exceeds RPD limit
B305030-MSD1	SVOA - PAHs	Phenanthrene	Exceeds RPD limit
B305030-MSD1	SVOA - PAHs	Fluorene	Exceeds RPD limit
B305030-MSD1	SVOA - PAHs	Dibenzofuran	Spike recovery below MDL
B305030-MSD1	SVOA - PAHs	Carbazole	Exceeds upper control limit
B305030-MSD1	SVOA - PAHs	Acenaphthene	Spike recovery below MDL
B305030-MSD1	SVOA - PAHs	Pyrene	Exceeds upper control limit
B305030-MSD1	SVOA - PAHs	Acenaphthylene	Spike recovery below MDL
B305030-MSD1	SVOA - PAHs	Anthracene	Exceeds upper control limit
B305030-MSD1	SVOA - PAHs	Benzo (k) fluoranthene	Exceeds upper control limit
B305030-MSD1	SVOA - PAHs	Benzo (a) anthracene	Exceeds upper control limit
B305030-MSD1	SVOA - PAHs	Benzo (g,h,i) perylene	Exceeds upper control limit
B305030-MSD1	SVOA - PAHs	Benzo (b) fluoranthene	Exceeds upper control limit
B305030-MSD1	SVOA - PAHs	Benzo (a) pyrene	Exceeds upper control limit
B305030-MSD1	SVOA - PAHs	Phenanthrene	Exceeds upper control limit
B305030-MSD1	SVOA - PAHs	Dibenz (a,h) anthracene	Exceeds upper control limit
B306001-MS1	SVOA - PAHs	Fluorene	Exceeds lower control limit
B306001-MS1	SVOA - PAHs	Acenaphthylene	Spike recovery below MDL
B306001-MS1	SVOA - PAHs	Benzo (k) fluoranthene	Exceeds lower control limit
B306001-MS1	SVOA - PAHs	Phenanthrene	Exceeds lower control limit
B306001-MS1	SVOA - PAHs	Terphenyl-d14	Exceeds lower control limit
B306001-MS1	SVOA - PAHs	Chrysene	Exceeds lower control limit
B306001-MS1	SVOA - PAHs	2-Methylnaphthalene	Spike recovery below MDL
B306001-MS1	SVOA - PAHs	Benzo (g,h,i) perylene	Spike recovery below MDL
B306001-MS1	SVOA - PAHs	Fluoranthene	Exceeds lower control limit
B306001-MS1	SVOA - PAHs	Benzo (a) anthracene	Spike recovery below MDL
B306001-MS1	SVOA - PAHs	Benzo (b) fluoranthene	Spike recovery below MDL
B306001-MS1	SVOA - PAHs	Carbazole	Spike recovery below MDL
B306001-MS1	SVOA - PAHs	Anthracene	Exceeds lower control limit
B306001-MS1	SVOA - PAHs	Dibenz (a,h) anthracene	Spike recovery below MDL
B306001-MS1	SVOA - PAHs	Acenaphthene	Exceeds lower control limit
B306001-MS1	SVOA - PAHs	Dibenzofuran	Spike recovery below MDL
B306001-MS1	SVOA - PAHs	Indeno (1,2,3-cd) pyrene	Spike recovery below MDL
B306001-MS1	SVOA - PAHs	Naphthalene	Spike recovery below MDL

Items for Project Manager Review

LabNumber	Analysis	Analyte	Exception
B306001-MS1	SVOA - PAHs	2-Fluorobiphenyl	Exceeds lower control limit
B306001-MS1	SVOA - PAHs	Benzo (a) pyrene	Spike recovery below MDL
B306001-MSD1	SVOA - PAHs	Phenanthrene	Exceeds RPD limit
B306001-MSD1	SVOA - PAHs	Anthracene	Exceeds upper control limit
B306001-MSD1	SVOA - PAHs	Naphthalene	Exceeds upper control limit
B306001-MSD1	SVOA - PAHs	2-Methylnaphthalene	Exceeds upper control limit
B306001-MSD1	SVOA - PAHs	Acenaphthene	Exceeds upper control limit
B306001-MSD1	SVOA - PAHs	Acenaphthylene	Exceeds upper control limit
B306001-MSD1	SVOA - PAHs	Benzo (k) fluoranthene	Exceeds upper control limit
B306001-MSD1	SVOA - PAHs	Chrysene	Exceeds upper control limit
B306001-MSD1	SVOA - PAHs	Pyrene	Exceeds upper control limit
B306001-MSD1	SVOA - PAHs	Dibenzofuran	Exceeds upper control limit
B306001-MSD1	SVOA - PAHs	Carbazole	Exceeds upper control limit
B306001-MSD1	SVOA - PAHs	Fluorene	Exceeds upper control limit
B306001-MSD1	SVOA - PAHs	Fluorene	Exceeds RPD limit
B306001-MSD1	SVOA - PAHs	Phenanthrene	Exceeds upper control limit
B306001-MSD1	SVOA - PAHs	Acenaphthene	Exceeds RPD limit
B306001-MSD1	SVOA - PAHs	Anthracene	Exceeds RPD limit
B306001-MSD1	SVOA - PAHs	Benzo (k) fluoranthene	Exceeds RPD limit
B306001-MSD1	SVOA - PAHs	Chrysene	Exceeds RPD limit
B306001-MSD1	SVOA - PAHs	Pyrene	Exceeds RPD limit
B306001-MSD1	SVOA - PAHs	Fluoranthene	Exceeds RPD limit
B306001-MSD1	SVOA - PAHs	Fluoranthene	Exceeds upper control limit

Sample, Log and Extraction Comments

0305007-01
SVOA - PAHs
0-12

0305007-02
SVOA - PAHs
0-12

0305007-03
SVOA - PAHs
0-12

0305007-04
SVOA - PAHs
0-12

0305007-05
SVOA - PAHs
0-12

0305007-06
SVOA - PAHs
0-12

0305007-07
SVOA - PAHs
0-12

0305007-08
SVOA - PAHs
0-12

0305007-09
SVOA - PAHs
0-12

0305007-10
SVOA - PAHs
0-12

0305007-11
SVOA - PAHs
0-12

0305007-12
SVOA - PAHs
0-12

0305007-13
SVOA - PAHs
0-12

0305007-14
SVOA - PAHs
0-12

0305007-15
SVOA - PAHs
0-12

0305007-16
SVOA - PAHs
0-12

0305007-17
SVOA - PAHs
0-12

0305007-18
SVOA - PAHs
0-12

0305007-19
SVOA - PAHs

0-12

0305007-20
SVOA - PAHs

0-12

0305007-21
SVOA - PAHs

0-12

0305007-22
SVOA - PAHs

0-12

0305007-23
SVOA - PAHs

0-12

0305007-24
SVOA - PAHs

0-12

0305007-25
SVOA - PAHs

0-12

0305007-26
SVOA - PAHs

0-12

0305007-27
SVOA - PAHs

0-12

0305007-28
SVOA - PAHs

0-12

0305007-29
SVOA - PAHs

0-12

0305007-30
SVOA - PAHs

0-12

0305007-31
SVOA - PAHs

0-12

0305007-32
SVOA - PAHs

0-12

0305007-33
SVOA - PAHs

0-12

0305007-34
SVOA - PAHs

0-12

0305007-35
SVOA - PAHs

0-12

0305007-36
SVOA - PAHs

0-12

0305007-37
SVOA - PAHs

0-12

0305007-38
SVOA - PAHs

0-12

0305007-39
SVOA - PAHs

0-12

0305007-40
SVOA - PAHs

0-12

/ /

Data Management Coordinator and Date Received

Date Transmitted: _____/_____/_____

Please have the U.S. EPA Project Manager/Officer call the CRL Sample Coordinator at 3-7444 for any comments or questions.

Please sign and date this form below and return it with any comments to:

Sylvia Griffin
Data Management Coordinator
Region 5 Central Regional Laboratory
ML-10C

_____/____/_____

Received by and Date

Comments:

WO # 0305007

MISC INFO.

- Oil & Grease

- % SOLIDS

Environmental Protection Agency Region 5
Central Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Indiana Harbor Project Number: [none] Project Manager: Betty Lavis	**Reported:** Jul-17-03 09:31

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
DRAFT: SX67-3	0305007-01	Soil	May-21-03 00:00	May-22-03 14:08
DRAFT: SX61-1	0305007-02	Soil	May-21-03 00:00	May-22-03 14:08
DRAFT: DNS-2	0305007-03	Soil	May-21-03 00:00	May-22-03 14:08
DRAFT: OP367-1	0305007-04	Soil	May-21-03 00:00	May-22-03 14:08
DRAFT: SX67-2	0305007-05	Soil	May-21-03 00:00	May-22-03 14:08
DRAFT: SX61-3	0305007-06	Soil	May-21-03 00:00	May-22-03 14:08
DRAFT: DN182-2	0305007-07	Soil	May-21-03 00:00	May-22-03 14:08
DRAFT: SV1-1	0305007-08	Soil	May-21-03 00:00	May-22-03 14:08
DRAFT: DN182-1	0305007-09	Soil	May-21-03 00:00	May-22-03 14:08
DRAFT: SV1-4	0305007-10	Soil	May-21-03 00:00	May-22-03 14:08
DRAFT: SX67-1	0305007-11	Soil	May-21-03 00:00	May-22-03 14:08
DRAFT: OP367-2	0305007-12	Soil	May-21-03 00:00	May-22-03 14:08
DRAFT: NM6-2	0305007-13	Soil	May-21-03 00:00	May-22-03 14:08
DRAFT: SV1-3	0305007-14	Soil	May-21-03 00:00	May-22-03 14:08
DRAFT: SV1-2	0305007-15	Soil	May-21-03 00:00	May-22-03 14:08
DRAFT: SR3-4	0305007-16	Soil	May-22-03 00:00	May-22-03 14:08
DRAFT: SR1-2	0305007-17	Soil	May-22-03 00:00	May-22-03 14:08
DRAFT: OP367-4	0305007-18	Soil	May-22-03 00:00	May-22-03 14:08
DRAFT: DN5-3	0305007-19	Soil	May-22-03 00:00	May-22-03 14:08
DRAFT: SR5-6	0305007-20	Soil	May-22-03 00:00	May-22-03 14:08
DRAFT: SX67-5	0305007-21	Soil	May-22-03 00:00	May-22-03 14:08
DRAFT: SV1-5	0305007-22	Soil	May-22-03 00:00	May-22-03 14:08
DRAFT: SRN 3-4	0305007-23	Soil	May-22-03 00:00	May-22-03 14:08
DRAFT: SX61-4	0305007-24	Soil	May-22-03 00:00	May-22-03 14:08
DRAFT: DN182-4	0305007-25	Soil	May-22-03 00:00	May-22-03 14:08
DRAFT: SX67-4	0305007-26	Soil	May-22-03 00:00	May-22-03 14:08
DRAFT: OP367-3	0305007-27	Soil	May-22-03 00:00	May-22-03 14:08
DRAFT: SX61-6	0305007-28	Soil	May-22-03 00:00	May-22-03 14:08

Babu Paruchuri, Group Leader

Environmental Protection Agency Region 5
Central Regional Laboratory

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Superfund, US EPA Region 5	Project: Indiana Harbor	
77 West Jackson Boulevard	Project Number: [none]	**Reported:**
Chicago IL, 60604	Project Manager: Betty Lavis	Jul-17-03 09:31

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
DRAFT: PHRAGMITES	0305007-29	Soil	May-22-03 00:00	May-22-03 14:08
DRAFT: SV1-6	0305007-30	Soil	May-22-03 00:00	May-22-03 14:08
DRAFT: DN182-3	0305007-31	Soil	May-22-03 00:00	May-22-03 14:08
DRAFT: SRN1-2	0305007-32	Soil	May-22-03 00:00	May-22-03 14:08
DRAFT: SRN5-6	0305007-33	Soil	May-22-03 00:00	May-22-03 14:08
DRAFT: SX61-5	0305007-34	Soil	May-22-03 00:00	May-22-03 14:08
DRAFT: NM6-3	0305007-35	Soil	May-22-03 00:00	May-22-03 14:08
DRAFT: SX67-6	0305007-36	Soil	May-22-03 00:00	May-22-03 14:08
DRAFT: DN5-4	0305007-37	Soil	May-22-03 00:00	May-22-03 14:08
DRAFT: DN5-1	0305007-38	Soil	May-22-03 00:00	May-22-03 14:08
DRAFT: NM6-1	0305007-39	Soil	May-22-03 00:00	May-22-03 14:08
DRAFT: SX61-2	0305007-40	Soil	May-22-03 00:00	May-22-03 14:08

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Superfund, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Indiana Harbor Project Number: [none] Project Manager: Betty Lavis	**Reported:** Jul-17-03 09:31

DRAFT: Oil and Grease by Gravimetric Analyses
US EPA Region 5 Central Regional Laboratory

DRAFT: SX67-3 (0305007-01) Soil Sampled: May-21-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Oil & Grease	**177000**		390	1240	mg/kg dry	1	B305029	May-28-0	May-29-03

DRAFT: SX61-1 (0305007-02) Soil Sampled: May-21-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Oil & Grease	**98800**		390	1240	mg/kg dry	1	B305029	May-28-0	May-29-03

DRAFT: DNS-2 (0305007-03) Soil Sampled: May-21-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Oil & Grease	**108000**		390	1240	mg/kg dry	1	B305029	May-28-0	May-29-03

DRAFT: OP367-1 (0305007-04) Soil Sampled: May-21-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Oil & Grease	**42200**		390	1240	mg/kg dry	1	B305029	May-28-0	May-29-03

DRAFT: SX67-2 (0305007-05) Soil Sampled: May-21-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Oil & Grease	**47600**		390	1240	mg/kg dry	1	B305029	May-28-0	May-29-03

DRAFT: SX61-3 (0305007-06) Soil Sampled: May-21-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Oil & Grease	**67200**		390	1240	mg/kg dry	1	B305029	May-28-0	May-29-03

DRAFT: DN182-2 (0305007-07) Soil Sampled: May-21-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Oil & Grease	**35100**		390	1240	mg/kg dry	1	B305029	May-28-0	May-29-03

DRAFT: SV1-1 (0305007-08) Soil Sampled: May-21-03 00:00 Received: May-22-03 14:08

Environmental Protection Agency Region 5
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Superfund, US EPA Region 5	Project: Indiana Harbor	
77 West Jackson Boulevard	Project Number: [none]	**Reported:**
Chicago IL, 60604	Project Manager: Betty Lavis	Jul-17-03 09:31

DRAFT: Oil and Grease by Gravimetric Analyses
US EPA Region 5 Central Regional Laboratory

DRAFT: SV1-1 (0305007-08) Soil Sampled: May-21-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Oil & Grease	**142000**		390	1240	mg/kg dry	1	B305029	May-28-0	May-29-03

DRAFT: DN182-1 (0305007-09) Soil Sampled: May-21-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Oil & Grease	**26100**		390	1240	mg/kg dry	1	B305029	May-28-0	May-29-03

DRAFT: SV1-4 (0305007-10) Soil Sampled: May-21-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Oil & Grease	**129000**		390	1240	mg/kg dry	1	B305029	May-28-0	May-29-03

DRAFT: SX67-1 (0305007-11) Soil Sampled: May-21-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Oil & Grease	**121000**		390	1240	mg/kg dry	1	B305029	May-28-0	May-29-03

DRAFT: OP367-2 (0305007-12) Soil Sampled: May-21-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Oil & Grease	**61400**		390	1240	mg/kg dry	1	B305029	May-28-0	May-29-03

DRAFT: NM6-2 (0305007-13) Soil Sampled: May-21-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Oil & Grease	**231000**		390	1240	mg/kg dry	1	B305029	May-28-0	May-29-03

DRAFT: SV1-3 (0305007-14) Soil Sampled: May-21-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Oil & Grease	**155000**		390	1240	mg/kg dry	1	B305032	May-29-0	Jun-02-03

DRAFT: SV1-2 (0305007-15) Soil Sampled: May-21-03 00:00 Received: May-22-03 14:08

Environmental Protection Agency Region 5
Central Regional Laboratory

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Superfund, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Indiana Harbor Project Number: [none] Project Manager: Betty Lavis	**Reported:** Jul-17-03 09:31

DRAFT: Oil and Grease by Gravimetric Analyses
US EPA Region 5 Central Regional Laboratory

DRAFT: SV1-2 (0305007-15) Soil Sampled: May-21-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Oil & Grease	**66600**		390	1240	mg/kg dry	1	B305032	May-29-0	Jun-02-03

DRAFT: SR3-4 (0305007-16) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Oil & Grease	**244000**		390	1240	mg/kg dry	1	B305032	May-29-0	Jun-02-03

DRAFT: SR1-2 (0305007-17) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Oil & Grease	**187000**		390	1240	mg/kg dry	1	B305032	May-29-0	Jun-02-03

DRAFT: OP367-4 (0305007-18) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Oil & Grease	**67200**		390	1240	mg/kg dry	1	B305032	May-29-0	Jun-02-03

DRAFT: DN5-3 (0305007-19) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Oil & Grease	**40700**		390	1240	mg/kg dry	1	B305032	May-29-0	Jun-02-03

DRAFT: SR5-6 (0305007-20) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Oil & Grease	**119000**		390	1240	mg/kg dry	1	B305032	May-29-0	Jun-02-03

DRAFT: SX67-5 (0305007-21) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Oil & Grease	**31600**		390	1240	mg/kg dry	1	B305032	May-29-0	Jun-02-03

DRAFT: SV1-5 (0305007-22) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Environmental Protection Agency Region 5
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Superfund, US EPA Region 5	Project: Indiana Harbor	
77 West Jackson Boulevard	Project Number: [none]	**Reported:**
Chicago IL, 60604	Project Manager: Betty Lavis	Jul-17-03 09:31

DRAFT: Oil and Grease by Gravimetric Analyses
US EPA Region 5 Central Regional Laboratory

DRAFT: SV1-5 (0305007-22) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Oil & Grease	**6460**		390	1240	mg/kg dry	1	B305032	May-29-0	Jun-02-03

DRAFT: SRN 3-4 (0305007-23) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Oil & Grease	**125000**		390	1240	mg/kg dry	1	B305032	May-29-0	Jun-02-03

DRAFT: SX61-4 (0305007-24) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Oil & Grease	**85900**		390	1240	mg/kg dry	1	B305032	May-29-0	Jun-02-03

DRAFT: DN182-4 (0305007-25) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Oil & Grease	**151000**		390	1240	mg/kg dry	1	B305032	May-29-0	Jun-02-03

DRAFT: SX67-4 (0305007-26) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Oil & Grease	**53400**		390	1240	mg/kg dry	1	B305032	May-29-0	Jun-02-03

DRAFT: OP367-3 (0305007-27) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Oil & Grease	**93700**		390	1240	mg/kg dry	1	B306002	Jun-03-03	Jun-03-03

DRAFT: SX61-6 (0305007-28) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Oil & Grease	**88700**		390	1240	mg/kg dry	1	B306002	Jun-03-03	Jun-03-03

DRAFT: PHRAGMITES (0305007-29) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

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Superfund, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Indiana Harbor Project Number: [none] Project Manager: Betty Lavis	**Reported:** Jul-17-03 09:31

DRAFT: Oil and Grease by Gravimetric Analyses
US EPA Region 5 Central Regional Laboratory

DRAFT: PHRAGMITES (0305007-29) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Oil & Grease	**80900**		390	1240	mg/kg dry	1	B306002	Jun-03-03	Jun-03-03

DRAFT: SV1-6 (0305007-30) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Oil & Grease	**86700**		390	1240	mg/kg dry	1	B306002	Jun-03-03	Jun-03-03

DRAFT: DN182-3 (0305007-31) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Oil & Grease	**217000**		390	1240	mg/kg dry	1	B306002	Jun-03-03	Jun-03-03

DRAFT: SRN1-2 (0305007-32) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Oil & Grease	**232000**		390	1240	mg/kg dry	1	B306002	Jun-03-03	Jun-03-03

DRAFT: SRN5-6 (0305007-33) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Oil & Grease	**28300**		390	1240	mg/kg dry	1	B306002	Jun-03-03	Jun-03-03

DRAFT: SX61-5 (0305007-34) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Oil & Grease	**44200**		390	1240	mg/kg dry	1	B306002	Jun-03-03	Jun-03-03

DRAFT: NM6-3 (0305007-35) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Oil & Grease	**7190**		390	1240	mg/kg dry	1	B306002	Jun-03-03	Jun-03-03

DRAFT: SX67-6 (0305007-36) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Environmental Protection Agency Region 5
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Superfund, US EPA Region 5	Project: Indiana Harbor	
77 West Jackson Boulevard	Project Number: [none]	**Reported:**
Chicago IL, 60604	Project Manager: Betty Lavis	Jul-17-03 09:31

DRAFT: Oil and Grease by Gravimetric Analyses
US EPA Region 5 Central Regional Laboratory

DRAFT: SX67-6 (0305007-36) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Oil & Grease	**113000**		390	1240	mg/kg dry	1	B306002	Jun-03-03	Jun-03-03

DRAFT: DN5-4 (0305007-37) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Oil & Grease	**15300**		390	1240	mg/kg dry	1	B306002	Jun-03-03	Jun-03-03

DRAFT: DN5-1 (0305007-38) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Oil & Grease	**88800**		390	1240	mg/kg dry	1	B306002	Jun-03-03	Jun-03-03

DRAFT: NM6-1 (0305007-39) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Oil & Grease	**48700**		390	1240	mg/kg dry	1	B306002	Jun-03-03	Jun-03-03

DRAFT: SX61-2 (0305007-40) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Oil & Grease	**3370**		390	1240	mg/kg dry	1	B306002	Jun-03-03	Jun-03-03

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Superfund, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Indiana Harbor Project Number: [none] Project Manager: Betty Lavis	**Reported:** Jul-17-03 09:31

DRAFT: Oil and Grease by Gravimetric Analyses - Quality Control
US EPA Region 5 Central Regional Laboratory

Batch B305029 - EPA 9071

Blank (B305029-BLK1) **Prepared: May-27-03 Analyzed: May-29-03**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Oil & Grease	**U**		390	1240	mg/kg wet						

LCS (B305029-BS1) **Prepared: May-27-03 Analyzed: May-29-03**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Oil & Grease	**2690**		390	1240	mg/kg wet	4000		67.2	58-96		

LCS Dup (B305029-BSD1) **Prepared: May-27-03 Analyzed: May-29-03**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Oil & Grease	**1720**		390	1240	mg/kg wet	4000		43.0	58-96	44.0	30

Matrix Spike (B305029-MS1) **Source: 0305007-09** **Prepared: May-27-03 Analyzed: May-29-03**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Oil & Grease	**Matrix Inter**		390	1240	mg/kg dry	8420	26100	215	70-100		

Matrix Spike Dup (B305029-MSD1) **Source: 0305007-09** **Prepared: May-27-03 Analyzed: May-29-03**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Oil & Grease	**Matrix Inter**		390	1240	mg/kg dry	8240	26100	149	70-100	14.0	30

Batch B305032 - EPA 9071

Blank (B305032-BLK1) **Prepared: May-29-03 Analyzed: Jun-02-03**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Oil & Grease	**U**		390	1240	mg/kg wet						

LCS (B305032-BS1) **Prepared: May-29-03 Analyzed: Jun-02-03**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Oil & Grease	**3040**		390	1240	mg/kg wet	4000		76.0	58-96		

LCS Dup (B305032-BSD1) **Prepared: May-29-03 Analyzed: Jun-02-03**

Babu Paruchuri, Group Leader

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Superfund, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Indiana Harbor Project Number: [none] Project Manager: Betty Lavis	**Reported:** Jul-17-03 09:31

DRAFT: Oil and Grease by Gravimetric Analyses - Quality Control
US EPA Region 5 Central Regional Laboratory

Batch B305032 - EPA 9071

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Oil & Grease	**2630**		390	1240	mg/kg wet	4000		65.8	58-96	14.5	30

Matrix Spike (B305032-MS1) **Source: 0305007-18** **Prepared: May-29-03 Analyzed: Jun-02-03**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Oil & Grease	**Matrix Inter**		390	1240	mg/kg dry	4810	67200	703	70-100		

Matrix Spike Dup (B305032-MSD1) **Source: 0305007-18** **Prepared: May-29-03 Analyzed: Jun-02-03**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Oil & Grease	**Matrix Inter**		390	1240	mg/kg dry	4770	67200	NR	70-100	59.2	30

Batch B306002 - EPA 9071

Blank (B306002-BLK1) **Prepared & Analyzed: Jun-03-03**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Oil & Grease	**U**		390	1240	mg/kg wet						

LCS (B306002-BS1) **Prepared & Analyzed: Jun-03-03**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Oil & Grease	**2220**		390	1240	mg/kg wet	4000		55.5	58-96		

LCS Dup (B306002-BSD1) **Prepared & Analyzed: Jun-03-03**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Oil & Grease	**1650**		390	1240	mg/kg wet	4000		41.2	58-96	29.5	30

Matrix Spike (B306002-MS1) **Source: 0305007-35** **Prepared & Analyzed: Jun-03-03**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Oil & Grease	**Matrix Inter**		390	1240	mg/kg dry	4360	7190	140	70-100		

Matrix Spike Dup (B306002-MSD1) **Source: 0305007-35** **Prepared & Analyzed: Jun-03-03**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Oil & Grease	**9460**		390	1240	mg/kg dry	4400	7190	51.6	70-100	33.7	30

Babu Paruchuri, Group Leader

Environmental Protection Agency Region 5
Central Regional Laboratory

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Superfund, US EPA Region 5	Project: Indiana Harbor	
77 West Jackson Boulevard	Project Number: [none]	**Reported:**
Chicago IL, 60604	Project Manager: Betty Lavis	Jul-17-03 11:02

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
DRAFT: SX67-3	0305007-01	Soil	May-21-03 00:00	May-22-03 14:08
DRAFT: SX61-1	0305007-02	Soil	May-21-03 00:00	May-22-03 14:08
DRAFT: DNS-2	0305007-03	Soil	May-21-03 00:00	May-22-03 14:08
DRAFT: OP367-1	0305007-04	Soil	May-21-03 00:00	May-22-03 14:08
DRAFT: SX67-2	0305007-05	Soil	May-21-03 00:00	May-22-03 14:08
DRAFT: SX61-3	0305007-06	Soil	May-21-03 00:00	May-22-03 14:08
DRAFT: DN182-2	0305007-07	Soil	May-21-03 00:00	May-22-03 14:08
DRAFT: SV1-1	0305007-08	Soil	May-21-03 00:00	May-22-03 14:08
DRAFT: DN182-1	0305007-09	Soil	May-21-03 00:00	May-22-03 14:08
DRAFT: SV1-4	0305007-10	Soil	May-21-03 00:00	May-22-03 14:08
DRAFT: SX67-1	0305007-11	Soil	May-21-03 00:00	May-22-03 14:08
DRAFT: OP367-2	0305007-12	Soil	May-21-03 00:00	May-22-03 14:08
DRAFT: NM6-2	0305007-13	Soil	May-21-03 00:00	May-22-03 14:08
DRAFT: SV1-3	0305007-14	Soil	May-21-03 00:00	May-22-03 14:08
DRAFT: SV1-2	0305007-15	Soil	May-21-03 00:00	May-22-03 14:08
DRAFT: SR3-4	0305007-16	Soil	May-22-03 00:00	May-22-03 14:08
DRAFT: SR1-2	0305007-17	Soil	May-22-03 00:00	May-22-03 14:08
DRAFT: OP367-4	0305007-18	Soil	May-22-03 00:00	May-22-03 14:08
DRAFT: DN5-3	0305007-19	Soil	May-22-03 00:00	May-22-03 14:08
DRAFT: SR5-6	0305007-20	Soil	May-22-03 00:00	May-22-03 14:08
DRAFT: SX67-5	0305007-21	Soil	May-22-03 00:00	May-22-03 14:08
DRAFT: SV1-5	0305007-22	Soil	May-22-03 00:00	May-22-03 14:08
DRAFT: SRN 3-4	0305007-23	Soil	May-22-03 00:00	May-22-03 14:08
DRAFT: SX61-4	0305007-24	Soil	May-22-03 00:00	May-22-03 14:08
DRAFT: DN182-4	0305007-25	Soil	May-22-03 00:00	May-22-03 14:08
DRAFT: SX67-4	0305007-26	Soil	May-22-03 00:00	May-22-03 14:08
DRAFT: OP367-3	0305007-27	Soil	May-22-03 00:00	May-22-03 14:08
DRAFT: SX61-6	0305007-28	Soil	May-22-03 00:00	May-22-03 14:08

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Superfund, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Indiana Harbor Project Number: [none] Project Manager: Betty Lavis	**Reported:** Jul-17-03 11:02

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
DRAFT: PHRAGMITES	0305007-29	Soil	May-22-03 00:00	May-22-03 14:08
DRAFT: SV1-6	0305007-30	Soil	May-22-03 00:00	May-22-03 14:08
DRAFT: DN182-3	0305007-31	Soil	May-22-03 00:00	May-22-03 14:08
DRAFT: SRN1-2	0305007-32	Soil	May-22-03 00:00	May-22-03 14:08
DRAFT: SRN5-6	0305007-33	Soil	May-22-03 00:00	May-22-03 14:08
DRAFT: SX61-5	0305007-34	Soil	May-22-03 00:00	May-22-03 14:08
DRAFT: NM6-3	0305007-35	Soil	May-22-03 00:00	May-22-03 14:08
DRAFT: SX67-6	0305007-36	Soil	May-22-03 00:00	May-22-03 14:08
DRAFT: DN5-4	0305007-37	Soil	May-22-03 00:00	May-22-03 14:08
DRAFT: DN5-1	0305007-38	Soil	May-22-03 00:00	May-22-03 14:08
DRAFT: NM6-1	0305007-39	Soil	May-22-03 00:00	May-22-03 14:08
DRAFT: SX61-2	0305007-40	Soil	May-22-03 00:00	May-22-03 14:08

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Superfund, US EPA Region 5	Project: Indiana Harbor	
77 West Jackson Boulevard	Project Number: [none]	**Reported:**
Chicago IL, 60604	Project Manager: Betty Lavis	Jul-17-03 11:02

DRAFT: Gravimetric Analyses
US EPA Region 5 Central Regional Laboratory

DRAFT: SX67-3 (0305007-01) Soil Sampled: May-21-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
% Solids	**74.5**			1.00	%	1	B305028	May-27-0	Jun-02-03

DRAFT: SX61-1 (0305007-02) Soil Sampled: May-21-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
% Solids	**79.8**			1.00	%	1	B305028	May-27-0	Jun-02-03

DRAFT: DNS-2 (0305007-03) Soil Sampled: May-21-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
% Solids	**84.1**			1.00	%	1	B305028	May-27-0	Jun-02-03

DRAFT: OP367-1 (0305007-04) Soil Sampled: May-21-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
% Solids	**78.3**			1.00	%	1	B305028	May-27-0	Jun-02-03

DRAFT: SX67-2 (0305007-05) Soil Sampled: May-21-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
% Solids	**78.6**			1.00	%	1	B305028	May-27-0	Jun-02-03

DRAFT: SX61-3 (0305007-06) Soil Sampled: May-21-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
% Solids	**79.1**			1.00	%	1	B305028	May-27-0	Jun-02-03

DRAFT: DN182-2 (0305007-07) Soil Sampled: May-21-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
% Solids	**85.0**			1.00	%	1	B305028	May-27-0	Jun-02-03

DRAFT: SV1-1 (0305007-08) Soil Sampled: May-21-03 00:00 Received: May-22-03 14:08

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Superfund, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Indiana Harbor Project Number: [none] Project Manager: Betty Lavis	**Reported:** Jul-17-03 11:02

DRAFT: Gravimetric Analyses
US EPA Region 5 Central Regional Laboratory

DRAFT: SV1-1 (0305007-08) Soil Sampled: May-21-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
% Solids	**79.7**			1.00	%	1	B305028	May-27-0	Jun-02-03

DRAFT: DN182-1 (0305007-09) Soil Sampled: May-21-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
% Solids	**85.2**			1.00	%	1	B305028	May-27-0	Jun-02-03

DRAFT: SV1-4 (0305007-10) Soil Sampled: May-21-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
% Solids	**82.7**			1.00	%	1	B305028	May-27-0	Jun-02-03

DRAFT: SX67-1 (0305007-11) Soil Sampled: May-21-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
% Solids	**86.1**			1.00	%	1	B305028	May-27-0	Jun-02-03

DRAFT: OP367-2 (0305007-12) Soil Sampled: May-21-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
% Solids	**86.8**			1.00	%	1	B305028	May-27-0	Jun-02-03

DRAFT: NM6-2 (0305007-13) Soil Sampled: May-21-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
% Solids	**58.9**			1.00	%	1	B305028	May-27-0	Jun-02-03

DRAFT: SV1-3 (0305007-14) Soil Sampled: May-21-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
% Solids	**70.9**			1.00	%	1	B305028	May-27-0	Jun-02-03

DRAFT: SV1-2 (0305007-15) Soil Sampled: May-21-03 00:00 Received: May-22-03 14:08

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Superfund, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Indiana Harbor Project Number: [none] Project Manager: Betty Lavis	**Reported:** Jul-17-03 11:02

DRAFT: Gravimetric Analyses
US EPA Region 5 Central Regional Laboratory

DRAFT: SV1-2 (0305007-15) Soil Sampled: May-21-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
% Solids	**78.9**			1.00	%	1	B305028	May-27-0	Jun-02-03

DRAFT: SR3-4 (0305007-16) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
% Solids	**84.9**			1.00	%	1	B305028	May-27-0	Jun-02-03

DRAFT: SR1-2 (0305007-17) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
% Solids	**85.2**			1.00	%	1	B305028	May-27-0	Jun-02-03

DRAFT: OP367-4 (0305007-18) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
% Solids	**89.8**			1.00	%	1	B305028	May-27-0	Jun-02-03

DRAFT: DN5-3 (0305007-19) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
% Solids	**89.0**			1.00	%	1	B305028	May-27-0	Jun-02-03

DRAFT: SR5-6 (0305007-20) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
% Solids	**84.7**			1.00	%	1	B305028	May-27-0	Jun-02-03

DRAFT: SX67-5 (0305007-21) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
% Solids	**78.6**			1.00	%	1	B305028	May-27-0	Jun-02-03

DRAFT: SV1-5 (0305007-22) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Environmental Protection Agency Region 5
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Superfund, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Indiana Harbor Project Number: [none] Project Manager: Betty Lavis	**Reported:** Jul-17-03 11:02

DRAFT: Gravimetric Analyses
US EPA Region 5 Central Regional Laboratory

DRAFT: SV1-5 (0305007-22) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
% Solids	**78.1**			1.00	%	1	B305028	May-27-0	Jun-02-03

DRAFT: SRN 3-4 (0305007-23) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
% Solids	**79.2**			1.00	%	1	B305028	May-27-0	Jun-02-03

DRAFT: SX61-4 (0305007-24) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
% Solids	**83.2**			1.00	%	1	B305028	May-27-0	Jun-02-03

DRAFT: DN182-4 (0305007-25) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
% Solids	**85.0**			1.00	%	1	B305028	May-27-0	Jun-02-03

DRAFT: SX67-4 (0305007-26) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
% Solids	**78.8**			1.00	%	1	B305028	May-27-0	Jun-02-03

DRAFT: OP367-3 (0305007-27) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
% Solids	**86.1**			1.00	%	1	B305028	May-27-0	Jun-02-03

DRAFT: SX61-6 (0305007-28) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
% Solids	**85.4**			1.00	%	1	B305028	May-27-0	Jun-02-03

DRAFT: PHRAGMITES (0305007-29) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

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Superfund, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Indiana Harbor Project Number: [none] Project Manager: Betty Lavis	**Reported:** Jul-17-03 11:02

DRAFT: Gravimetric Analyses
US EPA Region 5 Central Regional Laboratory

DRAFT: SX67-6 (0305007-36) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
% Solids	**83.6**			1.00	%	1	B305028	May-27-0	Jun-02-03

DRAFT: DN5-4 (0305007-37) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
% Solids	**87.6**			1.00	%	1	B305028	May-27-0	Jun-02-03

DRAFT: DN5-1 (0305007-38) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
% Solids	**88.0**			1.00	%	1	B305028	May-27-0	Jun-02-03

DRAFT: NM6-1 (0305007-39) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
% Solids	**82.6**			1.00	%	1	B305028	May-27-0	Jun-02-03

DRAFT: SX61-2 (0305007-40) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
% Solids	**78.8**			1.00	%	1	B305028	May-27-0	Jun-02-03

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Superfund, US EPA Region 5	Project: Indiana Harbor	
77 West Jackson Boulevard	Project Number: [none]	**Reported:**
Chicago IL, 60604	Project Manager: Betty Lavis	Jul-17-03 11:02

DRAFT: Gravimetric Analyses
US EPA Region 5 Central Regional Laboratory

DRAFT: PHRAGMITES (0305007-29) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
% Solids	**79.3**			1.00	%	1	B305028	May-27-0	Jun-02-03

DRAFT: SV1-6 (0305007-30) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
% Solids	**86.1**			1.00	%	1	B305028	May-27-0	Jun-02-03

DRAFT: DN182-3 (0305007-31) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
% Solids	**79.0**			1.00	%	1	B305028	May-27-0	Jun-02-03

DRAFT: SRN1-2 (0305007-32) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
% Solids	**82.6**			1.00	%	1	B305028	May-27-0	Jun-02-03

DRAFT: SRN5-6 (0305007-33) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
% Solids	**84.4**			1.00	%	1	B305028	May-27-0	Jun-02-03

DRAFT: SX61-5 (0305007-34) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
% Solids	**79.7**			1.00	%	1	B305028	May-27-0	Jun-02-03

DRAFT: NM6-3 (0305007-35) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
% Solids	**90.7**			1.00	%	1	B305028	May-27-0	Jun-02-03

DRAFT: SX67-6 (0305007-36) Soil Sampled: May-22-03 00:00 Received: May-22-03 14:08

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Superfund, US EPA Region 5	Project: Indiana Harbor	
77 West Jackson Boulevard	Project Number: [none]	**Reported:**
Chicago IL, 60604	Project Manager: Betty Lavis	Jul-17-03 11:02

DRAFT: Gravimetric Analyses - Quality Control
US EPA Region 5 Central Regional Laboratory

Batch B305028 - Solids, TS&TVS

Blank (B305028-BLK1) **Prepared: May-27-03 Analyzed: Jun-02-03**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
% Solids	**U**			1.00	%						

Blank (B305028-BLK2) **Prepared: May-27-03 Analyzed: Jun-02-03**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
% Solids	**U**			1.00	%						

Duplicate (B305028-DUP1) **Source: 0305007-29** **Prepared: May-27-03 Analyzed: Jun-02-03**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
% Solids	**79.3**			1.00	%		79.3			0.00	20

Duplicate (B305028-DUP2) **Source: 0305007-01** **Prepared: May-27-03 Analyzed: Jun-02-03**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
% Solids	**72.3**			1.00	%		74.5			3.00	20

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Superfund, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Indiana Harbor Project Number: [none] Project Manager: Betty Lavis	**Reported:** Jul-17-03 11:02

Notes and Definitions

U	Not Detected
NR	Not Reported

Babu Paruchuri, Group Leader