



PERFORMANCE INITIATORS

Syrgis Performance Initiators, Inc.

334 Phillips 311 Road
Industrial Park Road
Helena, Arkansas 72342-9033

Customer Service: (800) 786-6722
Customer Service Fax: (800) 987-0845
Phone: (870) 572-2935
Fax: (870) 572-1416

January 30, 2009

Mr. Rufus J. Torrence
ADEQ NPDES Pretreatment Engineer
Arkansas Department of Environmental Quality
Water Division
5301 Northshore Drive
North Little Rock, Arkansas 72118-5317

Dear Mr. Torrence:

In accordance with 40 CFR Part 403.12(e) industrial users with processes regulated by categorical pretreatment standards (40 CFR Part 414, et al), please find enclosed our most recent monitoring report for the wastewater discharged from the Syrgis Performance Initiators, Inc. facility in Helena, Arkansas. During the sampling period we were discharging approximately 33,900 gallons of water per day based on previous monthly use averages.

Please contact me by phone at 870.572.2935 ext. 209 or by e-mail at jwages@syrgis.com if you have any questions or require additional information regarding this report.

Sincerely,

Jeff Wages
EHS Manager

Enclosures

cc:
Scott Ahlers - Syrgis

Terry McGinister
Helena WWTP
702 Cherry St.
Helena, AR 72342



SEMI-ANNUAL REPORT FOR INDUSTRIAL USERS REGULATED BY 40CFR414

Return to: Water Div/NPDES Pretreatment

(1) IDENTIFYING INFORMATION

A. LEGAL NAME & MAILING ADDRESS

Syrgis Performance Initiators, Inc.
334 Phillips 311 Road
Helena, AR 72342-9033

B. FACILITY & LOCATION ADDRESS

Syrgis Performance Initiators, Inc.
334 Phillips 311 Road
Helena, AR 72342-9033

C. FACILITY CONTACT: **Jeff Wages**

TELEPHONE NUMBER: **870.572.2935 x209**

(2) REPORTING PERIOD

A. MONTHS WHICH REPORTS ARE DUE

March & August

B. PERIOD COVERED BY THIS REPORT

FROM: **August 2008** TO: **January 2009**

(3) DESCRIPTION OF OPERATION

A. REGULATED PROCESSES

CORE PROCESS(ES)

Specify Category and Sub-Categor(ies)

Check each applicable Subpart

: Subpart A--General

Subpart B--Rayon Fibers

Subpart C--Other Fibers

Subpart D--Thermoplastic Resins

Subpart E--Thermosetting Resins

Subpart F--Commodity Organic Chemicals

Subpart G--Bulk Organic Chemicals

Subpart H--Specialty Organic Chemicals

B. CHANGES: SUMMARIZE ANY CHANGES IN THE REGULATED PROCESSES SINCE THE LAST REPORT. ATTACH AN ADDITIONAL SHEET IF THE SPACE BELOW IS INADEQUATE. PROVIDE A NEW SCHEMATIC IF APPROPRIATE.

C. Number of Regular Employees at this Facility 51

(4) FLOW MEASUREMENT

A. Total Plant Flow to POTW in Gallons per Day

Average: 29,430 gpd Maximum: 39,260 gpd

(4) Con'd Next Page

(4) FLOW MEASUREMENT (CON'D)

B. INDIVIDUAL PROCESS FLOWS IN GALLONS PER DAY

| Process | Average Flow Rate (gpd) | Maximum Flow Rate (gpd) | Type of Discharge (Batch, etc) |
|---------------|-------------------------|-------------------------|--------------------------------|
| Regulated | 28,030 | 37,560 | Continuous |
| Unregulated* | | | |
| Cooling Water | | | |
| Sanitary | 800 | 1,000 | Continuous |

*"Unregulated" has a precise legal meaning; see 40CFR403.6(e).

(5) MEASUREMENT OF POLLUTANTS

A. TYPE OF TREATMENT SYSTEM

CHECK EACH APPLICABLE BLOCK

G Neutralization

G Chemical Precipitation and Sedimentation

Biological

G Cyanide Destruction

G Other _____

G None

B. COMMENTS ON TREATMENT SYSTEM

Two aerated ponds with a total surface area of ~6.5 acres.

C. THE INDUSTRIAL USER MUST PERFORM SAMPLING AND ANALYSIS ON THE EFFLUENT FROM ALL REGULATED PROCESSES--CORE & ANCILLARY--(AFTER TREATMENT, IF APPLICABLE). ATTACH THE LAB ANALYSIS WHICH SHOWS A MAXIMUM; TABULATE ALL THE ANALYTICAL DATA COLLECTED DURING THE REPORT PERIOD. ZERO CONCENTRATIONS ARE NOT ACCEPTABLE; LIST THE DETECTION LIMIT IF CONCENTRATION WAS BELOW DETECTION LIMIT.

TABULATE THE FOLLOWING INFORMATION ON PAGE 3

AEC ⇒ AVERAGE EQUIVALENT CONCENTRATION

Sample Location Pond 2 effluent

Sample Type (Grab or Composite) Composite & Grab per testing requirements

Number of Samples and Frequency Collected 2/Semi-annually

40CFR136 Preservation and Analytical Methods Use: Yes G No

D. WAS THE COMBINED WASTESTREAM FORMULA USED TO DETERMINE ALTERNATE LIMITS? G Yes No

40CFR414 SEMI-ANNUAL REPORT CON'D FACILITY NAME: Syrgis Performance Initiators, Inc.

| Pollutant | AEC | MEC | AMAC | AMMC |
|--------------------------------|------------|-----|------|------|
| Benzene | 8.9 ug/l | | | |
| Carbon Tetrachloride | <2 ug/l | | | |
| Chlorobenzene | <6 ug/l | | | |
| 1,2,4 - Trichlorobenzene | <19 ug/l | | | |
| Hexachlorobenzene | <19 ug/l | | | |
| 1,2 - Dichloroethane | <2.8 ug/l | | | |
| 1,1,1 - Trichloroethane | <3.8 ug/l | | | |
| Hexachloroethane | <16 ug/l | | | |
| 1,1 - Dichloroethane | <4.7 ug/l | | | |
| 1,1,2 - Trichloroethane | <5 ug/l | | | |
| Chloroethane | <8.7 ug/l | | | |
| Chloroform | <1.6 ug/l | | | |
| 1,2 - Dichlorobenzene | <5 ug/l | | | |
| 1,3 - Dichlorobenzene | <5 ug/l | | | |
| 1,4 - Dichlorobenzene | <5 ug/l | | | |
| 1,1 - Dichloroethylene | <2.8 ug/l | | | |
| 1,2 - trans - Dichloroethylene | <1.6 ug/l | | | |
| 1,2 - Dichloropropane | <6 ug/l | | | |
| 1,3 - Dichloropropylene | <5 ug/l | | | |
| Ethylbenzene | <7.2 ug/l | | | |
| Methylene Chloride | <10 ug/l | | | |
| Methyl Chloride | <7.8 ug/l | | | |
| Hexachlorobutadiene | <9 ug/l | | | |
| Nitrobenzene | <19 ug/l | | | |
| 2 - Nitrophenol | <36 ug/l | | | |
| 4 - Nitrophenol | <24 ug/l | | | |
| 4,6 - Dinitro-o-cresol | <240 ug/l | | | |
| Tetrachloroethylene | <4.1 ug/l | | | |
| Toluene | <6 ug/l | | | |
| Trichloroethylene | <1.9 ug/l | | | |
| Vinyl Chloride | <6.4 ug/l | | | |
| Total Cyanide | | | | |
| Total Lead | | | | |
| Total Zinc | 0.047 mg/l | | | |

(7) GENERAL COMMENTS

(8) SIGNATORY REQUIREMENTS

I certify under penalty of law that I have personally examined and am familiar with the information in this semi-annual compliance report and all attachments, and that, based on my inquiry of those persons immediately responsible for obtaining the information contained in the report, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Scott Ahlers

NAME OF CORPORATE OFFICER OR AUTHORIZED REPRESENTATIVE



SIGNATURE

Plant Manager

OFFICIAL TITLE

January 30, 2009

DATE SIGNED



Rineco Analytical Services
ATTN: Ms. Mia Dixon
Post Office Box 729
Benton, AR 72018

Dear Ms. Mia Dixon:

Project Description: Two (2) water sample(s) received on January 14, 2009
Syrgis Performance Initiators, Inc.

This report is the analytical results and supporting information for the samples submitted to American Interplex Corporation (AIC) on January 14, 2009. The following results are applicable only to the samples identified by the control number referenced above. Accurate assessment of the data requires access to the entire document. Each section of the report has been reviewed and approved by the laboratory director or a qualified designee.

Data has been validated using standard quality control measures performed on at least 10% of the samples analyzed. Quality Assurance, instrumentation, maintenance and calibration were performed in accordance with guidelines established by the cited methodology.

AMERICAN INTERPLEX CORPORATION

By _____

A handwritten signature in black ink, appearing to read 'John Overbey', is written over a horizontal line. Below the line, the name 'John Overbey' and title 'Laboratory Director' are printed in a standard font.

Enclosure(s): Chain of Custody

PDF cc: Rineco Analytical Services
ATTN: Ms. Mia Dixon
mdixon@rineco.com

Rineco Analytical Services
Post Office Box 729
Benton, AR 72018

CASE NARRATIVE

SAMPLE RECEIPT

Received Temperature: 2°C

| | | |
|-----------------------|--------------------------------|---|
| Receipt Verification: | Complete Chain of Custody | Y |
| | Sample ID on Sample Labels | Y |
| | Date and Time on Sample Labels | Y |
| | Proper Sample Containers | Y |
| | Within Holding Times | Y |
| | Adequate Sample Volume | Y |
| | Sample Integrity | Y |
| | Proper Temperature | Y |
| | Proper Preservative | Y |

COMMENTS

Elevated reporting limits for semi-volatiles are due to high levels of Benzoic acid.

QUALIFIERS

| Qualifiers | Definition |
|------------|--|
| D | Result is from a secondary dilution factor |
| R | n-Nitrosodiphenylamine cannot be separated from diphenylamine |
| X | Spiking level is invalid due to the high concentration of analyte in the spiked sample |

References:

"Methods for Chemical Analysis of Water and Wastes", EPA/600/4-79-020 (Mar 1983) with updates and supplements EPA/600/5-91-010 (Jun 1991), EPA/600/R-92-129 (Aug 1992) and EPA/600/R-93-100 (Aug 1993).

"Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW846)", Third Edition.

"Standard Methods for the Examination of Water and Wastewaters", 20th edition, 1998.

"American Society for Testing and Materials" (ASTM).

"Association of Analytical Chemists" (AOAC).

"Self-Davis and Moore" (2000).

Rineco Analytical Services
Post Office Box 729
Benton, AR 72018

ANALYTICAL RESULTS

AIC No. 125946-1

Sample Identification: Effluent 1-14-09 1228

| Analyte | Method | Result | RL | Units | Batch | Qualifier |
|---------------------------------------|-----------|--------|-----|-------|-------|-----------|
| Oil and Grease | EPA 1664A | 5.0 | 5 | mg/l | B5509 | |
| Volatile Organic Compounds By EPA 624 | | | | | | |
| Acrolein | | < 50 | 50 | ug/l | V6905 | |
| Acrylonitrile | | < 20 | 20 | ug/l | V6905 | |
| Benzene | | 8.9 | 4.4 | ug/l | V6905 | |
| Bromoforn | | < 4.7 | 4.7 | ug/l | V6905 | |
| Carbon tetrachloride | | < 2 | 2 | ug/l | V6905 | |
| Chlorobenzene | | < 6 | 6 | ug/l | V6905 | |
| Chlorodibromomethane | | < 3.1 | 3.1 | ug/l | V6905 | |
| Chloroethane | | < 8.7 | 8.7 | ug/l | V6905 | |
| 2-Chloroethylvinyl ether | | < 5.1 | 5.1 | ug/l | V6905 | |
| Chloroform | | < 1.6 | 1.6 | ug/l | V6905 | |
| 1,2-Dichlorobenzene | | < 5 | 5 | ug/l | V6905 | |
| 1,3-Dichlorobenzene | | < 5 | 5 | ug/l | V6905 | |
| 1,4-Dichlorobenzene | | < 5 | 5 | ug/l | V6905 | |
| Dichlorobromomethane | | < 2.2 | 2.2 | ug/l | V6905 | |
| 1,1-Dichloroethane | | < 4.7 | 4.7 | ug/l | V6905 | |
| 1,2-Dichloroethane | | < 2.8 | 2.8 | ug/l | V6905 | |
| 1,1-Dichloroethylene | | < 2.8 | 2.8 | ug/l | V6905 | |
| trans-1,2-Dichloroethylene | | < 1.6 | 1.6 | ug/l | V6905 | |
| 1,2-Dichloropropane | | < 6 | 6 | ug/l | V6905 | |
| cis-1,3-Dichloropropylene | | < 5 | 5 | ug/l | V6905 | |
| trans-1,3-Dichloropropylene | | < 1.3 | 1.3 | ug/l | V6905 | |
| Ethylbenzene | | < 7.2 | 7.2 | ug/l | V6905 | |
| Methyl bromide(Bromomethane) | | < 8.9 | 8.9 | ug/l | V6905 | |
| Methyl chloride(Chloromethane) | | < 7.8 | 7.8 | ug/l | V6905 | |
| Methylene chloride | | < 10 | 10 | ug/l | V6905 | |
| 1,1,2,2-Tetrachloroethane | | < 6.9 | 6.9 | ug/l | V6905 | |
| Tetrachloroethylene | | < 4.1 | 4.1 | ug/l | V6905 | |
| Toluene | | < 6 | 6 | ug/l | V6905 | |
| 1,1,1-Trichloroethane | | < 3.8 | 3.8 | ug/l | V6905 | |
| 1,1,2-Trichloroethane | | < 5 | 5 | ug/l | V6905 | |
| Trichloroethylene | | < 1.9 | 1.9 | ug/l | V6905 | |
| Vinyl chloride | | < 6.4 | 6.4 | ug/l | V6905 | |
| Surrogate Recovery | | | | | | |
| Bromofluorobenzene | | 96.9 | - | % | V6905 | |
| Dibromofluoromethane | | 95.7 | - | % | V6905 | |
| Toluene-D8 | | 99.6 | - | % | V6905 | |

AIC No. 125946-2

Sample Identification: Effluent 1/13-14/09 1220-1220

| Analyte | Method | Result | RL | Units | Batch | Qualifier |
|-------------------------|-----------|--------|----|-------|--------|-----------|
| Total Kjeldahl Nitrogen | EPA 351.2 | 9.7 | 1 | mg/l | W27773 | |
| COD | HACH 8000 | 1800 | 10 | mg/l | W27754 | |
| Total Dissolved Solids | SM 2540C | 16000 | 10 | mg/l | W27764 | |
| BOD 5-day | SM 5210 B | 570 | 2 | mg/l | W27748 | |
| Total Organic Carbon | SM 5310C | 400 | 1 | mg/l | W27777 | |
| Total Suspended Solids | USGS 3765 | 94 | 4 | mg/l | W27771 | |

Rineco Analytical Services
Post Office Box 729
Benton, AR 72018

ANALYTICAL RESULTS

AIC No. 125946-2 (Continued)

Sample Identification: Effluent 1/13-14/09 1220-1220

| Analyte | Method | Result | RL | Units | Batch | Qualifier |
|--|-----------|--------|-------|-------|--------|-----------|
| Zinc | EPA 200.7 | 0.047 | 0.002 | mg/l | S24713 | |
| Chloride | EPA 300.0 | 11000 | 200 | mg/l | S24706 | D |
| Base/Neutral and Acid Compounds By EPA 625 | | | | | | |
| Acenaphthene | | < 19 | 19 | ug/l | B5511 | D |
| Acenaphthylene | | < 35 | 35 | ug/l | B5511 | D |
| Anthracene | | < 19 | 19 | ug/l | B5511 | D |
| Benzydine | | < 440 | 440 | ug/l | B5511 | D |
| Benzo(a)anthracene | | < 50 | 50 | ug/l | B5511 | D |
| Benzo(a)pyrene | | < 25 | 25 | ug/l | B5511 | D |
| Benzo(g,h,i)perylene | | < 41 | 41 | ug/l | B5511 | D |
| Benzo(k)fluoranthene | | < 25 | 25 | ug/l | B5511 | D |
| 3,4-Benzofluoranthene | | < 48 | 48 | ug/l | B5511 | D |
| Bis(2-chloroethoxy)methane | | < 53 | 53 | ug/l | B5511 | D |
| Bis(2-chloroethyl)ether | | < 57 | 57 | ug/l | B5511 | D |
| Bis(2-chloroisopropyl)ether | | < 57 | 57 | ug/l | B5511 | D |
| Bis(2-ethylhexyl)phthalate | | < 25 | 25 | ug/l | B5511 | D |
| 4-Bromophenyl phenyl ether | | < 19 | 19 | ug/l | B5511 | D |
| Butylbenzyl phthalate | | < 25 | 25 | ug/l | B5511 | D |
| 2-Chloronaphthalene | | < 19 | 19 | ug/l | B5511 | D |
| 2-Chlorophenol | | < 33 | 33 | ug/l | B5511 | D |
| 4-Chlorophenyl phenyl ether | | < 42 | 42 | ug/l | B5511 | D |
| Chrysene | | < 25 | 25 | ug/l | B5511 | D |
| Di-n-butyl phthalate | | < 25 | 25 | ug/l | B5511 | D |
| Di-n-octyl phthalate | | < 25 | 25 | ug/l | B5511 | D |
| Dibenzo(a,h)anthracene | | < 25 | 25 | ug/l | B5511 | D |
| 1,2-Dichlorobenzene | | < 19 | 19 | ug/l | B5511 | D |
| 1,3-Dichlorobenzene | | < 19 | 19 | ug/l | B5511 | D |
| 1,4-Dichlorobenzene | | < 44 | 44 | ug/l | B5511 | D |
| 3,3'-Dichlorobenzidine | | < 50 | 50 | ug/l | B5511 | D |
| 2,4-Dichlorophenol | | < 27 | 27 | ug/l | B5511 | D |
| Diethyl phthalate | | < 19 | 19 | ug/l | B5511 | D |
| Dimethyl phthalate | | < 16 | 16 | ug/l | B5511 | D |
| 2,4-Dimethylphenol | | < 27 | 27 | ug/l | B5511 | D |
| 4,6-Dinitro-o-cresol | | < 240 | 240 | ug/l | B5511 | D |
| 2,4-Dinitrophenol | | < 420 | 420 | ug/l | B5511 | D |
| 2,4-Dinitrotoluene | | < 57 | 57 | ug/l | B5511 | D |
| 2,6-Dinitrotoluene | | < 19 | 19 | ug/l | B5511 | D |
| 1,2-Diphenylhydrazine | | < 110 | 110 | ug/l | B5511 | D |
| Fluoranthene | | < 22 | 22 | ug/l | B5511 | D |
| Fluorene | | < 19 | 19 | ug/l | B5511 | D |
| Hexachlorobenzene | | < 19 | 19 | ug/l | B5511 | D |
| Hexachlorobutadiene | | < 9 | 9 | ug/l | B5511 | D |
| Hexachlorocyclopentadiene | | < 50 | 50 | ug/l | B5511 | D |
| Hexachloroethane | | < 16 | 16 | ug/l | B5511 | D |
| Indeno(1,2,3-cd)pyrene | | < 37 | 37 | ug/l | B5511 | D |
| Isophorone | | < 22 | 22 | ug/l | B5511 | D |
| n-Nitrosodi-n-propylamine | | < 8.4 | 8.4 | ug/l | B5511 | D |
| n-Nitrosodimethylamine | | < 9.6 | 9.6 | ug/l | B5511 | D |
| n-Nitrosodiphenylamine | | < 19 | 19 | ug/l | B5511 | DR |



Rineco Analytical Services
 Post Office Box 729
 Benton, AR 72018

ANALYTICAL RESULTS

AIC No. 125946-2 (Continued)

Sample Identification: Effluent 1/13-14/09 1220-1220

| Analyte | Method | Result | RL | Units | Batch | Qualifier |
|--|--------|--------|----|-------|-------|-----------|
| Base/Neutral and Acid Compounds By EPA 625 (Continued) | | | | | | |
| Naphthalene | | < 16 | 16 | ug/l | B5511 | D |
| Nitrobenzene | | < 19 | 19 | ug/l | B5511 | D |
| 2-Nitrophenol | | < 36 | 36 | ug/l | B5511 | D |
| 4-Nitrophenol | | < 24 | 24 | ug/l | B5511 | D |
| p-Chloro-m-cresol | | < 30 | 30 | ug/l | B5511 | D |
| Pentachlorophenol | | < 36 | 36 | ug/l | B5511 | D |
| Phenanthrene | | < 54 | 54 | ug/l | B5511 | D |
| Phenol | | < 15 | 15 | ug/l | B5511 | D |
| Pyrene | | < 19 | 19 | ug/l | B5511 | D |
| 1,2,4-Trichlorobenzene | | < 19 | 19 | ug/l | B5511 | D |
| 2,4,6-Trichlorophenol | | < 27 | 27 | ug/l | B5511 | D |
| Surrogate Recovery | | | | | | |
| 2-Fluorobiphenyl | | - | - | - | B5511 | D |
| 2-Fluorophenol | | - | - | - | B5511 | D |
| Nitrobenzene-D5 | | - | - | - | B5511 | D |
| Phenol-D5 | | - | - | - | B5511 | D |
| Terphenyl-D14 | | - | - | - | B5511 | D |
| 2,4,6-Tribromophenol | | - | - | - | B5511 | D |



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 Post Office Box 729
 Benton, AR 72018

SAMPLE PREPARATION REPORT

AIC No. 125946-1

| Analyte | Date/Time Prepared By | | Date/Time Analyzed By | | Dilution | Batch | Qualifier |
|----------------------------|-----------------------|-----|-----------------------|-----|----------|-------|-----------|
| Oil and Grease | 15JAN09 0851 | 100 | 15JAN09 1018 | 100 | | B5509 | |
| Volatile Organic Compounds | | | 16JAN09 1225 | 167 | | V6905 | |

AIC No. 125946-2

| Analyte | Date/Time Prepared By | | Date/Time Analyzed By | | Dilution | Batch | Qualifier |
|---------------------------------|-----------------------|-----|-----------------------|-----|----------|--------|-----------|
| Total Kjeldahl Nitrogen | 16JAN09 1219 | 93 | 20JAN09 1443 | 93 | | W27773 | |
| COD | | | 15JAN09 1733 | 285 | | W27754 | |
| Total Dissolved Solids | 15JAN09 1749 | 285 | 16JAN09 1238 | 285 | | W27764 | |
| BOD 5-day | 15JAN09 1156 | 285 | 20JAN09 1315 | 285 | | W27748 | |
| Total Organic Carbon | 19JAN09 1426 | 93 | 19JAN09 1822 | 93 | | W27777 | |
| Total Suspended Solids | 16JAN09 1148 | 258 | 19JAN09 0829 | 258 | | W27771 | |
| Metals | 16JAN09 0837 | 282 | 16JAN09 1347 | 270 | | S24713 | |
| Chloride | 15JAN09 1308 | 257 | 16JAN09 1933 | 257 | 1000 | S24706 | D |
| Base/Neutral and Acid Compounds | 16JAN09 1242 | 271 | 21JAN09 1839 | 194 | 10 | B5511 | DR |

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Benton, AR 72018

SAMPLE DUPLICATE RESULTS

AIC No. 125946-1

| Analyte | Method | Sample Result | Duplicate Result | Units | RPD | RPD Limit | Batch | Qualifier |
|---------------------------------------|--------|---------------|------------------|-------|------|-----------|-------|-----------|
| Volatile Organic Compounds By EPA 624 | | | | | | | | |
| Acrolein | | < 50 | < 50 | ug/l | 0.00 | 33.2 | V6905 | |
| Acrylonitrile | | < 20 | < 20 | ug/l | 0.00 | 41.6 | V6905 | |
| Benzene | | 8.9 | 8.4 | ug/l | 6.35 | 46.1 | V6905 | |
| Bromoform | | < 4.7 | < 4.7 | ug/l | 0.00 | 43.1 | V6905 | |
| Carbon tetrachloride | | < 2 | < 2 | ug/l | 0.00 | 20 | V6905 | |
| Chlorobenzene | | < 6 | < 6 | ug/l | 0.00 | 37.6 | V6905 | |
| Chlorodibromomethane | | < 3.1 | < 3.1 | ug/l | 0.00 | 50.8 | V6905 | |
| Chloroethane | | < 8.7 | < 8.7 | ug/l | 0.00 | 42 | V6905 | |
| 2-Chloroethylvinyl ether | | < 5.1 | < 5.1 | ug/l | 0.00 | 20 | V6905 | |
| Chloroform | | < 1.6 | < 1.6 | ug/l | 0.00 | 66 | V6905 | |
| 1,2-Dichlorobenzene | | < 5 | < 5 | ug/l | 0.00 | 20 | V6905 | |
| 1,3-Dichlorobenzene | | < 5 | < 5 | ug/l | 0.00 | 20 | V6905 | |
| 1,4-Dichlorobenzene | | < 5 | < 5 | ug/l | 0.00 | 20 | V6905 | |
| Dichlorobromomethane | | < 2.2 | < 2.2 | ug/l | 0.00 | 62.9 | V6905 | |
| 1,1-Dichloroethane | | < 4.7 | < 4.7 | ug/l | 0.00 | 43.1 | V6905 | |
| 1,2-Dichloroethane | | < 2.8 | < 2.8 | ug/l | 0.00 | 20 | V6905 | |
| 1,1-Dichloroethylene | | < 2.8 | < 2.8 | ug/l | 0.00 | 54.2 | V6905 | |
| trans-1,2-Dichloroethylene | | < 1.6 | < 1.6 | ug/l | 0.00 | 59.8 | V6905 | |
| 1,2-Dichloropropane | | < 6 | < 6 | ug/l | 0.00 | 38.2 | V6905 | |
| cis-1,3-Dichloropropylene | | < 5 | < 5 | ug/l | 0.00 | 20 | V6905 | |
| trans-1,3-Dichloropropylene | | < 1.3 | < 1.3 | ug/l | 0.00 | 20 | V6905 | |
| Ethylbenzene | | < 7.2 | < 7.2 | ug/l | 0.00 | 48 | V6905 | |
| Methyl bromide(Bromomethane) | | < 8.9 | < 8.9 | ug/l | 0.00 | 37 | V6905 | |
| Methyl chloride(Chloromethane) | | < 7.8 | < 7.8 | ug/l | 0.00 | 47 | V6905 | |
| Methylene chloride | | < 10 | < 10 | ug/l | 0.00 | 40.1 | V6905 | |
| 1,1,2,2-Tetrachloroethane | | < 6.9 | < 6.9 | ug/l | 0.00 | 45.8 | V6905 | |
| Tetrachloroethylene | | < 4.1 | < 4.1 | ug/l | 0.00 | 47 | V6905 | |
| Toluene | | < 6 | < 6 | ug/l | 0.00 | 41.2 | V6905 | |
| 1,1,1-Trichloroethane | | < 3.8 | < 3.8 | ug/l | 0.00 | 41.7 | V6905 | |
| 1,1,2-Trichloroethane | | < 5 | < 5 | ug/l | 0.00 | 22.6 | V6905 | |
| Trichloroethylene | | < 1.9 | < 1.9 | ug/l | 0.00 | 57 | V6905 | |
| Vinyl chloride | | < 6.4 | < 6.4 | ug/l | 0.00 | 19.3 | V6905 | |
| Surrogate Recovery | | | | | | | | |
| Bromofluorobenzene | | | 98.2 | % | | | V6905 | |
| Dibromofluoromethane | | | 96.1 | % | | | V6905 | |
| Toluene-D8 | | | 98.3 | % | | | V6905 | |

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LABORATORY CONTROL SAMPLE RESULTS

| Analyte | Spike Amount | % Recovery | % Recovery Limits | RPD | RPD Limit | Batch | Qualifier |
|---------------------------------|--------------|------------|-------------------|--------|-----------|--------|-----------|
| Total Kjeldahl Nitrogen | 5 mg/l | 103/99.1 | 80-120 | 4.13 | 20 | W27773 | |
| COD | 100 mg/l | 97.4/95.1 | 85-115 | 2.39 | 10 | W27754 | |
| Total Dissolved Solids | 250 mg/l | 101/101 | 85-115 | 0.395 | 10 | W27764 | |
| BOD 5-day | 200 mg/l | 106/106 | 84.5-115 | 0.236 | 20 | W27748 | |
| Total Organic Carbon | 10 mg/l | 106/105 | 85-115 | 1.44 | 10 | W27777 | |
| Total Suspended Solids | 200 mg/l | 107/104 | 80-120 | 2.36 | 20 | W27771 | |
| Zinc | 0.5 mg/l | 99.0/99.8 | 85-115 | 0.765 | 20 | S24713 | |
| Chloride | 5 mg/l | 103/98.1 | 90-110 | 5.34 | 10 | S24706 | |
| Oil and Grease | 40 mg/l | 98.2/97.8 | 78-114 | 0.510 | 20 | B5509 | |
| Base/Neutral and Acid Compounds | | | | | | | |
| Acenaphthene | 20 ug/l | 77.6/79.8 | 68.8-99.8 | 2.80 | 20 | B5511 | |
| Acenaphthylene | 20 ug/l | 77.9/78.8 | 69.1-98.9 | 1.09 | 44 | B5511 | |
| Anthracene | 20 ug/l | 75.9/76.2 | 60.9-108 | 0.394 | 13.1 | B5511 | |
| Benzo(a)anthracene | 20 ug/l | 83.1/85.0 | 72.7-108 | 2.20 | 23.4 | B5511 | |
| Benzo(a)pyrene | 20 ug/l | 84.0/86.2 | 72.5-103 | 2.53 | 25 | B5511 | |
| Benzo(g,h,i)perylene | 20 ug/l | 81.3/83.4 | 54.6-118 | 2.61 | 27.3 | B5511 | |
| Benzo(k)fluoranthene | 20 ug/l | 83.5/85.7 | 66.5-117 | 2.60 | 25.4 | B5511 | |
| 3,4-Benzofluoranthene | 20 ug/l | 87.4/87.9 | 66.9-117 | 0.628 | 18.8 | B5511 | |
| Bis(2-chloroethoxy)methane | 20 ug/l | 83.6/84.6 | 61.6-105 | 1.25 | 12.1 | B5511 | |
| Bis(2-chloroethyl)ether | 20 ug/l | 81.6/84.2 | 67.3-101 | 3.20 | 18 | B5511 | |
| Bis(2-chloroisopropyl)ether | 20 ug/l | 77.3/82.6 | 68.2-102 | 6.69 | 20 | B5511 | |
| Bis(2-ethylhexyl)phthalate | 20 ug/l | 85.6/90.8 | 62.6-127 | 5.90 | 19.5 | B5511 | |
| 4-Bromophenyl phenyl ether | 20 ug/l | 77.4/77.3 | 71.2-106 | 0.0647 | 20 | B5511 | |
| Butylbenzyl phthalate | 20 ug/l | 86.0/88.0 | 71-121 | 2.30 | 18.3 | B5511 | |
| 2-Chloronaphthalene | 20 ug/l | 73.0/73.0 | 65.4-99.3 | 0.0685 | 20 | B5511 | |
| 2-Chlorophenol | 20 ug/l | 75.8/78.8 | 64.1-103 | 3.95 | 14.9 | B5511 | |
| Chrysene | 20 ug/l | 83.2/83.8 | 70.1-104 | 0.658 | 30 | B5511 | |
| Di-n-butyl phthalate | 20 ug/l | 84.8/87.2 | 69.7-122 | 2.85 | 14.9 | B5511 | |
| Di-n-octyl phthalate | 20 ug/l | 90.6/96.8 | 53.8-158 | 6.62 | 35.2 | B5511 | |
| Dibenzo(a,h)anthracene | 20 ug/l | 83.6/91.4 | 57.3-124 | 8.86 | 31 | B5511 | |
| 1,2-Dichlorobenzene | 20 ug/l | 60.0/61.0 | 47.5-99 | 1.65 | 37 | B5511 | |
| 1,3-Dichlorobenzene | 20 ug/l | 54.6/56.0 | 44.1-113 | 2.53 | 16.6 | B5511 | |
| 1,4-Dichlorobenzene | 20 ug/l | 54.4/57.5 | 47.7-93.9 | 5.63 | 25.3 | B5511 | |
| 2,4-Dichlorophenol | 20 ug/l | 78.2/79.6 | 72-101 | 1.71 | 13.4 | B5511 | |
| Diethyl phthalate | 20 ug/l | 85.0/85.6 | 65.1-114 | 0.703 | 15.6 | B5511 | |
| Dimethyl phthalate | 20 ug/l | 84.8/85.5 | 72.8-105 | 0.881 | 20 | B5511 | |
| 2,4-Dimethylphenol | 20 ug/l | 51.6/34.4 | 3.4-112 | 40.0 | 59.8 | B5511 | |
| 4,6-Dinitro-o-cresol | 20 ug/l | 75.6/60.0 | 53.7-117 | 23.0 | 25 | B5511 | |
| 2,4-Dinitrophenol | 20 ug/l | 80.8/60.9 | 28.1-121 | 28.1 | 34.5 | B5511 | |
| 2,4-Dinitrotoluene | 20 ug/l | 84.4/84.6 | 68.4-105 | 0.237 | 24.1 | B5511 | |
| 2,6-Dinitrotoluene | 20 ug/l | 84.8/85.7 | 66.2-114 | 1.06 | 15.7 | B5511 | |
| 1,2-Diphenylhydrazine | 20 ug/l | 81.2/80.3 | 69.9-108 | 1.05 | 20.6 | B5511 | |
| Fluoranthene | 20 ug/l | 83.0/83.4 | 66.9-107 | 0.480 | 40 | B5511 | |
| Fluorene | 20 ug/l | 80.4/81.0 | 62.2-114 | 0.620 | 25 | B5511 | |
| Hexachlorobenzene | 20 ug/l | 76.2/76.2 | 72.2-106 | 0.00 | 15 | B5511 | |
| Hexachlorobutadiene | 20 ug/l | 55.2/55.6 | 41.6-93.9 | 0.812 | 23.7 | B5511 | |
| Hexachlorocyclopentadiene | 20 ug/l | 72.2/72.2 | 41-99.1 | 0.139 | 25.7 | B5511 | |
| Hexachloroethane | 20 ug/l | 52.0/53.3 | 36.2-97.5 | 2.37 | 21.4 | B5511 | |

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LABORATORY CONTROL SAMPLE RESULTS

| Analyte | Spike Amount | % Recovery | % Recovery Limits | RPD | RPD Limit | Batch | Qualifier |
|---|--------------|------------|-------------------|--------|-----------|-------|-----------|
| Base/Neutral and Acid Compounds (Continued) | | | | | | | |
| Indeno(1,2,3-cd)pyrene | 20 ug/l | 82.7/87.4 | 52.7-130 | 5.47 | 29.5 | B5511 | |
| Isophorone | 20 ug/l | 84.8/85.0 | 62.4-99.2 | 0.177 | 12 | B5511 | |
| n-Nitrosodi-n-propylamine | 20 ug/l | 87.2/89.0 | 65.4-110 | 2.10 | 68 | B5511 | |
| n-Nitrosodimethylamine | 20 ug/l | 53.4/55.0 | 43.4-86.3 | 2.77 | 50 | B5511 | |
| n-Nitrosodiphenylamine | 20 ug/l | 78.0/78.0 | 62.5-107 | 0.0641 | 20 | B5511 | |
| Naphthalene | 20 ug/l | 69.0/70.7 | 63.7-98.6 | 2.36 | 30 | B5511 | |
| Nitrobenzene | 20 ug/l | 80.2/82.2 | 66-100 | 2.53 | 12.2 | B5511 | |
| 2-Nitrophenol | 20 ug/l | 78.2/79.9 | 60.1-111 | 2.09 | 43 | B5511 | |
| 4-Nitrophenol | 20 ug/l | 67.4/56.5 | 31.2-96.2 | 17.5 | 37.4 | B5511 | |
| p-Chloro-m-cresol | 20 ug/l | 82.0/83.4 | 66.6-104 | 1.57 | 45 | B5511 | |
| Pentachlorophenol | 20 ug/l | 78.0/63.5 | 44-115 | 20.5 | 30 | B5511 | |
| Phenanthrene | 20 ug/l | 79.9/80.6 | 74.2-105 | 0.934 | 14.6 | B5511 | |
| Phenol | 20 ug/l | 52.6/54.4 | 39.5-82.5 | 3.36 | 22.4 | B5511 | |
| Pyrene | 20 ug/l | 84.1/81.2 | 62.9-125 | 3.57 | 22.2 | B5511 | |
| 1,2,4-Trichlorobenzene | 20 ug/l | 60.8/63.0 | 52.1-100 | 3.56 | 34 | B5511 | |
| 2,4,6-Trichlorophenol | 20 ug/l | 79.2/79.4 | 57.3-114 | 0.189 | 38 | B5511 | |
| Surrogate Recovery | | | | | | | |
| 2-Fluorobiphenyl | 20 ug/l | 75.6/75.8 | 69-97 | - | | B5511 | |
| 2-Fluorophenol | 20 ug/l | 64.1/67.1 | 51.8-85.6 | - | | B5511 | |
| Nitrobenzene-D5 | 20 ug/l | 82.0/84.6 | 64.5-98 | - | | B5511 | |
| Phenol-D5 | 20 ug/l | 56.8/57.2 | 37.2-81.2 | - | | B5511 | |
| Terphenyl-D14 | 20 ug/l | 84.2/82.4 | 64.8-118 | - | | B5511 | |
| 2,4,6-Tribromophenol | 20 ug/l | 77.4/74.9 | 40-116 | - | | B5511 | |
| Volatile Organic Compounds | | | | | | | |
| Acrylonitrile | 200 ug/l | 105 | 54-137 | - | | V6905 | |
| Benzene | 20 ug/l | 112 | 72.2-124 | - | | V6905 | |
| Bromoform | 20 ug/l | 98.2 | 60-128 | - | | V6905 | |
| Carbon tetrachloride | 20 ug/l | 106 | 66-132 | - | | V6905 | |
| Chlorobenzene | 20 ug/l | 110 | 76.9-122 | - | | V6905 | |
| Chlorodibromomethane | 20 ug/l | 105 | 68.4-124 | - | | V6905 | |
| Chloroethane | 20 ug/l | 114 | 69.8-133 | - | | V6905 | |
| Chloroform | 20 ug/l | 111 | 72.3-125 | - | | V6905 | |
| Dichlorobromomethane | 20 ug/l | 108 | 71.1-123 | - | | V6905 | |
| 1,1-Dichloroethane | 20 ug/l | 105 | 72.2-126 | - | | V6905 | |
| 1,2-Dichloroethane | 20 ug/l | 107 | 75.6-127 | - | | V6905 | |
| 1,1-Dichloroethylene | 20 ug/l | 114 | 74.7-130 | - | | V6905 | |
| trans-1,2-Dichloroethylene | 20 ug/l | 109 | 74.5-127 | - | | V6905 | |
| 1,2-Dichloropropane | 20 ug/l | 109 | 74-121 | - | | V6905 | |
| cis-1,3-Dichloropropylene | 20 ug/l | 106 | 56.8-119 | - | | V6905 | |
| trans-1,3-Dichloropropylene | 20 ug/l | 115 | 67.5-126 | - | | V6905 | |
| Ethylbenzene | 20 ug/l | 110 | 75.2-123 | - | | V6905 | |
| Methyl bromide(Bromomethane) | 20 ug/l | 116 | 62.1-138 | - | | V6905 | |
| Methyl chloride(Chloromethane) | 20 ug/l | 114 | 51.5-142 | - | | V6905 | |
| Methylene chloride | 20 ug/l | 117 | 71.7-128 | - | | V6905 | |
| 1,1,2,2-Tetrachloroethane | 20 ug/l | 108 | 71.1-127 | - | | V6905 | |
| Tetrachloroethylene | 20 ug/l | 110 | 69.5-134 | - | | V6905 | |
| Toluene | 20 ug/l | 112 | 74.9-123 | - | | V6905 | |

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LABORATORY CONTROL SAMPLE RESULTS

| Analyte | Spike Amount | % Recovery | % Recovery Limits | RPD | RPD Limit | Batch | Qualifier |
|--|--------------|------------|-------------------|-----|-----------|-------|-----------|
| Volatile Organic Compounds (Continued) | | | | | | | |
| 1,1,1-Trichloroethane | 20 ug/l | 106 | 68.4-126 | - | | V6905 | |
| 1,1,2-Trichloroethane | 20 ug/l | 108 | 78.3-121 | - | | V6905 | |
| Trichloroethylene | 20 ug/l | 110 | 74.6-125 | - | | V6905 | |
| Vinyl chloride | 20 ug/l | 108 | 58.6-133 | - | | V6905 | |
| Surrogate Recovery | | | | | | | |
| Bromofluorobenzene | 50 ug/l | 99.7 | 91.5-109 | - | | V6905 | |
| Dibromofluoromethane | 50 ug/l | 96.1 | 89-109 | - | | V6905 | |
| Toluene-D8 | 50 ug/l | 100 | 90.8-108 | - | | V6905 | |

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MATRIX SPIKE SAMPLE RESULTS

| Analyte | Spike Amount | % Recovery | % Recovery Limits | RPD | RPD Limit | Batch | Qualifier |
|------------------------------|--------------|------------|-------------------|------|-----------|--------|-----------|
| Total Kjeldahl Nitrogen | 5 mg/l | 110 | 80-120 | - | 20 | W27773 | D |
| COD | 100 mg/l | 92.8/92.8 | 80-120 | 0.00 | 10 | W27754 | |
| Total Organic Carbon | 10 mg/l | 104 | 80-120 | - | 10 | W27777 | |
| Chloride | 5 mg/l | - / - | 80-120 | 1.32 | 10 | S24706 | X |
| Volatile Organic Compounds | | | | | | | |
| Acrylonitrile | 200 ug/l | 95.5 | 53.9-132 | - | | V6905 | |
| Benzene | 20 ug/l | 84.6 | 73.7-127 | - | | V6905 | |
| Bromofom | 20 ug/l | 82.3 | 60.6-129 | - | | V6905 | |
| Carbon tetrachloride | 20 ug/l | 84.8 | 70-128 | - | | V6905 | |
| Chlorobenzene | 20 ug/l | 90.2 | 81.5-120 | - | | V6905 | |
| Chlorodibromomethane | 20 ug/l | 85.2 | 68.9-126 | - | | V6905 | |
| Chloroethane | 20 ug/l | 92.2 | 68.7-140 | - | | V6905 | |
| Chloroform | 20 ug/l | 88.4 | 70.4-129 | - | | V6905 | |
| Dichlorobromomethane | 20 ug/l | 85.4 | 74.2-122 | - | | V6905 | |
| 1,1-Dichloroethane | 20 ug/l | 90.6 | 70.9-133 | - | | V6905 | |
| 1,2-Dichloroethane | 20 ug/l | 88.8 | 76.8-128 | - | | V6905 | |
| 1,1-Dichloroethylene | 20 ug/l | 90.3 | 71.4-135 | - | | V6905 | |
| trans-1,2-Dichloroethylene | 20 ug/l | 91.7 | 78.3-127 | - | | V6905 | |
| 1,2-Dichloropropane | 20 ug/l | 87.6 | 73.3-121 | - | | V6905 | |
| cis-1,3-Dichloropropylene | 20 ug/l | 81.0 | 52.5-120 | - | | V6905 | |
| trans-1,3-Dichloropropylene | 20 ug/l | 91.4 | 58.6-123 | - | | V6905 | |
| Ethylbenzene | 20 ug/l | 88.6 | 77.5-122 | - | | V6905 | |
| Methyl bromide(Bromomethane) | 20 ug/l | 90.3 | 52.2-149 | - | | V6905 | |
| chloride(Chloromethane) | 20 ug/l | 91.0 | 74.4-127 | - | | V6905 | |
| Methylene chloride | 20 ug/l | 94.7 | 71.6-128 | - | | V6905 | |
| 1,1,2,2-Tetrachloroethane | 20 ug/l | 89.6 | 74.7-127 | - | | V6905 | |
| Tetrachloroethylene | 20 ug/l | 93.0 | 70.3-133 | - | | V6905 | |
| Toluene | 20 ug/l | 85.4 | 70.8-123 | - | | V6905 | |
| 1,1,1-Trichloroethane | 20 ug/l | 88.8 | 77.9-120 | - | | V6905 | |
| 1,1,2-Trichloroethane | 20 ug/l | 89.3 | 74.7-127 | - | | V6905 | |
| Trichloroethylene | 20 ug/l | 91.0 | 55.4-145 | - | | V6905 | |
| Vinyl chloride | 20 ug/l | 99.3 | 89.3-109 | - | | V6905 | |
| Surrogate Recovery | | | | | | | |
| Bromofluorobenzene | 50 ug/l | 97.0 | 88.9-108 | - | | V6905 | |
| Dibromofluoromethane | 50 ug/l | 99.2 | 90.3-106 | - | | V6905 | |
| Toluene-D8 | 50 ug/l | | | - | | V6905 | |

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LABORATORY BLANK RESULTS

| Analyte | Method | Result | Units | RL | PQL | QC | |
|--|-----------|---------|-------|-------|-------|----------|------|
| | | | | | | Sample | Qual |
| Total Kjeldahl Nitrogen | EPA 351.2 | < 1 | mg/l | 1 | 1 | W27773-1 | |
| COD | HACH 8000 | < 10 | mg/l | 10 | 10 | W27754-1 | |
| Total Dissolved Solids | SM 2540C | < 10 | mg/l | 10 | 10 | W27764-1 | |
| BOD 5-day | SM 5210 B | < 2 | mg/l | 2 | 2 | W27748-1 | |
| Total Organic Carbon | SM 5310C | < 1 | mg/l | 1 | 1 | W27777-1 | |
| Total Suspended Solids | USGS 3765 | < 4 | mg/l | 4 | 4 | W27771-1 | |
| Zinc | EPA 200.7 | < 0.002 | mg/l | 0.002 | 0.002 | S24713-1 | |
| Chloride | EPA 300.0 | < 0.2 | mg/l | 0.2 | 0.2 | S24706-1 | |
| Oil and Grease | EPA 1664A | < 5 | mg/l | 5 | 5 | B5509-1 | |
| Base/Neutral and Acid Compounds By EPA 625 | | | | | | | |
| Acenaphthene | | < 1.9 | ug/l | 1.9 | 5 | B5511-1 | |
| Acenaphthylene | | < 3.5 | ug/l | 3.5 | 5 | B5511-1 | |
| Anthracene | | < 1.9 | ug/l | 1.9 | 5 | B5511-1 | |
| Benzidine | | < 44 | ug/l | 44 | 50 | B5511-1 | |
| Benzo(a)anthracene | | < 5 | ug/l | 5 | 5 | B5511-1 | |
| Benzo(a)pyrene | | < 2.5 | ug/l | 2.5 | 5 | B5511-1 | |
| Benzo(g,h,i)perylene | | < 4.1 | ug/l | 4.1 | 5 | B5511-1 | |
| Benzo(k)fluoranthene | | < 2.5 | ug/l | 2.5 | 5 | B5511-1 | |
| 3,4-Benzofluoranthene | | < 4.8 | ug/l | 4.8 | 5 | B5511-1 | |
| Bis(2-chloroethoxy)methane | | < 5.3 | ug/l | 5.3 | 5 | B5511-1 | |
| Bis(2-chloroethyl)ether | | < 5.7 | ug/l | 5.7 | 5 | B5511-1 | |
| Bis(2-chloroisopropyl)ether | | < 5.7 | ug/l | 5.7 | 5 | B5511-1 | |
| Bis(2-ethylhexyl)phthalate | | < 2.5 | ug/l | 2.5 | 5 | B5511-1 | |
| 4-Bromophenyl phenyl ether | | < 1.9 | ug/l | 1.9 | 5 | B5511-1 | |
| Butylbenzyl phthalate | | < 2.5 | ug/l | 2.5 | 5 | B5511-1 | |
| 2-Chloronaphthalene | | < 1.9 | ug/l | 1.9 | 5 | B5511-1 | |
| 2-Chlorophenol | | < 3.3 | ug/l | 3.3 | 5 | B5511-1 | |
| 4-Chlorophenyl phenyl ether | | < 4.2 | ug/l | 4.2 | 5 | B5511-1 | |
| Chrysene | | < 2.5 | ug/l | 2.5 | 5 | B5511-1 | |
| Di-n-butyl phthalate | | < 2.5 | ug/l | 2.5 | 5 | B5511-1 | |
| Di-n-octyl phthalate | | < 2.5 | ug/l | 2.5 | 5 | B5511-1 | |
| Dibenzo(a,h)anthracene | | < 2.5 | ug/l | 2.5 | 5 | B5511-1 | |
| 1,2-Dichlorobenzene | | < 1.9 | ug/l | 1.9 | 5 | B5511-1 | |
| 1,3-Dichlorobenzene | | < 1.9 | ug/l | 1.9 | 5 | B5511-1 | |
| 1,4-Dichlorobenzene | | < 4.4 | ug/l | 4.4 | 5 | B5511-1 | |
| 3,3'-Dichlorobenzidine | | < 5 | ug/l | 5 | 20 | B5511-1 | |
| 2,4-Dichlorophenol | | < 2.7 | ug/l | 2.7 | 5 | B5511-1 | |
| Diethyl phthalate | | < 1.9 | ug/l | 1.9 | 5 | B5511-1 | |
| Dimethyl phthalate | | < 1.6 | ug/l | 1.6 | 5 | B5511-1 | |
| 2,4-Dimethylphenol | | < 2.7 | ug/l | 2.7 | 5 | B5511-1 | |
| 4,6-Dinitro-o-cresol | | < 24 | ug/l | 24 | 5 | B5511-1 | |
| 2,4-Dinitrophenol | | < 42 | ug/l | 42 | 5 | B5511-1 | |
| 2,4-Dinitrotoluene | | < 5.7 | ug/l | 5.7 | 5 | B5511-1 | |
| 2,6-Dinitrotoluene | | < 1.9 | ug/l | 1.9 | 5 | B5511-1 | |
| 1,2-Diphenylhydrazine | | < 11 | ug/l | 11 | 5 | B5511-1 | |
| Fluoranthene | | < 2.2 | ug/l | 2.2 | 5 | B5511-1 | |
| Fluorene | | < 1.9 | ug/l | 1.9 | 5 | B5511-1 | |
| Hexachlorobenzene | | < 1.9 | ug/l | 1.9 | 5 | B5511-1 | |
| Hexachlorobutadiene | | < 0.9 | ug/l | 0.9 | 5 | B5511-1 | |
| Hexachlorocyclopentadiene | | < 0.78 | ug/l | 0.78 | 5 | B5511-1 | |

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LABORATORY BLANK RESULTS

| Analyte | Method | Result | Units | RL | PQL | QC Sample | Qual |
|---|--------|--------|-------|------|-----|-----------|------|
| Base/Neutral and Acid Compounds By EPA 625 | | | | | | | |
| Hexachloroethane | | < 1.6 | ug/l | 1.6 | 5 | B5511-1 | |
| Indeno(1,2,3-cd)pyrene | | < 3.7 | ug/l | 3.7 | 5 | B5511-1 | |
| Isophorone | | < 2.2 | ug/l | 2.2 | 5 | B5511-1 | |
| n-Nitrosodi-n-propylamine | | < 0.84 | ug/l | 0.84 | 5 | B5511-1 | |
| n-Nitrosodimethylamine | | < 0.96 | ug/l | 0.96 | 5 | B5511-1 | |
| n-Nitrosodiphenylamine | | < 1.9 | ug/l | 1.9 | 5 | B5511-1 | R |
| Naphthalene | | < 1.6 | ug/l | 1.6 | 5 | B5511-1 | |
| Nitrobenzene | | < 1.9 | ug/l | 1.9 | 5 | B5511-1 | |
| 2-Nitrophenol | | < 3.6 | ug/l | 3.6 | 5 | B5511-1 | |
| 4-Nitrophenol | | < 2.4 | ug/l | 2.4 | 5 | B5511-1 | |
| p-Chloro-m-cresol | | < 3 | ug/l | 3 | 5 | B5511-1 | |
| Pentachlorophenol | | < 3.6 | ug/l | 3.6 | 5 | B5511-1 | |
| Phenanthrene | | < 5.4 | ug/l | 5.4 | 5 | B5511-1 | |
| Phenol | | < 1.5 | ug/l | 1.5 | 5 | B5511-1 | |
| Pyrene | | < 1.9 | ug/l | 1.9 | 5 | B5511-1 | |
| 1,2,4-Trichlorobenzene | | < 1.9 | ug/l | 1.9 | 5 | B5511-1 | |
| 2,4,6-Trichlorophenol | | < 2.7 | ug/l | 2.7 | 5 | B5511-1 | |
| Surrogate Recovery | | | | | | | |
| 2-Fluorobiphenyl | | 78.8 | % | - | - | B5511-1 | |
| 2-Fluorophenol | | 64.6 | % | - | - | B5511-1 | |
| Nitrobenzene-D5 | | 85.0 | % | - | - | B5511-1 | |
| Phenol-D5 | | 57.2 | % | - | - | B5511-1 | |
| Terphenyl-D14 | | 83.0 | % | - | - | B5511-1 | |
| 2,4,6-Tribromophenol | | 52.0 | % | - | - | B5511-1 | |
| Volatile Organic Compounds By EPA 624 | | | | | | | |
| Acrolein | | < 50 | ug/l | 50 | 50 | V6905-1 | |
| Acrylonitrile | | < 20 | ug/l | 20 | 25 | V6905-1 | |
| Benzene | | < 4.4 | ug/l | 4.4 | 5 | V6905-1 | |
| Bromoform | | < 4.7 | ug/l | 4.7 | 5 | V6905-1 | |
| Carbon tetrachloride | | < 2.8 | ug/l | 2.8 | 5 | V6905-1 | |
| Chlorobenzene | | < 6 | ug/l | 6 | 6 | V6905-1 | |
| Chlorodibromomethane | | < 3.1 | ug/l | 3.1 | 5 | V6905-1 | |
| Chloroethane | | < 8.7 | ug/l | 8.7 | 8.7 | V6905-1 | |
| 2-Chloroethylvinyl ether | | < 5.1 | ug/l | 5.1 | 5.1 | V6905-1 | |
| Chloroform | | < 1.6 | ug/l | 1.6 | 5 | V6905-1 | |
| 1,2-Dichlorobenzene | | < 5 | ug/l | 5 | 5 | V6905-1 | |
| 1,3-Dichlorobenzene | | < 5 | ug/l | 5 | 5 | V6905-1 | |
| 1,4-Dichlorobenzene | | < 5 | ug/l | 5 | 5 | V6905-1 | |
| Dichlorobromomethane | | < 2.2 | ug/l | 2.2 | 5 | V6905-1 | |
| 1,1-Dichloroethane | | < 4.7 | ug/l | 4.7 | 5 | V6905-1 | |
| 1,2-Dichloroethane | | < 2.8 | ug/l | 2.8 | 5 | V6905-1 | |
| 1,1-Dichloroethylene | | < 2.8 | ug/l | 2.8 | 5 | V6905-1 | |
| trans-1,2-Dichloroethylene | | < 1.6 | ug/l | 1.6 | 5 | V6905-1 | |
| 1,2-Dichloropropane | | < 6 | ug/l | 6 | 6 | V6905-1 | |
| cis-1,3-Dichloropropylene | | < 5 | ug/l | 5 | 5 | V6905-1 | |
| trans-1,3-Dichloropropylene | | < 1.3 | ug/l | 1.3 | 5 | V6905-1 | |
| Ethylbenzene | | < 7.2 | ug/l | 7.2 | 7.2 | V6905-1 | |
| Methyl bromide(Bromomethane) | | < 8.9 | ug/l | 8.9 | 8.9 | V6905-1 | |
| Methyl chloride(Chloromethane) | | < 7.8 | ug/l | 7.8 | 7.8 | V6905-1 | |



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LABORATORY BLANK RESULTS

| Analyte | Method | Result | Units | RL | PQL | QC Sample | Qual |
|---------------------------------------|--------|--------|-------|-----|-----|-----------|------|
| Volatile Organic Compounds By EPA 624 | | | | | | | |
| Methylene chloride | | < 10 | ug/l | 10 | 10 | V6905-1 | |
| 1,1,2,2-Tetrachloroethane | | < 6.9 | ug/l | 6.9 | 6.9 | V6905-1 | |
| Tetrachloroethylene | | < 4.1 | ug/l | 4.1 | 5 | V6905-1 | |
| Toluene | | < 6 | ug/l | 6 | 6 | V6905-1 | |
| 1,1,1-Trichloroethane | | < 3.8 | ug/l | 3.8 | 5 | V6905-1 | |
| 1,1,2-Trichloroethane | | < 5 | ug/l | 5 | 5 | V6905-1 | |
| Trichloroethylene | | < 1.9 | ug/l | 1.9 | 5 | V6905-1 | |
| Vinyl chloride | | < 6.4 | ug/l | 6.4 | 6.4 | V6905-1 | |
| Surrogate Recovery | | | | | | | |
| Bromofluorobenzene | | 96.4 | % | - | - | V6905-1 | |
| Dibromofluoromethane | | 96.4 | % | - | - | V6905-1 | |
| Toluene-D8 | | 99.8 | % | - | - | V6905-1 | |



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QUALITY CONTROL PREPARATION REPORT

DUPLICATE SAMPLES

| Analyte | Date/Time | | Date/Time | | Dilution | QC | |
|----------------------------|-------------|--|--------------|-----|----------|---------|-----------|
| | Prepared By | | Analyzed By | | | Sample | Qualifier |
| Volatile Organic Compounds | | | 16JAN09 1513 | 167 | | W6905-3 | |

LABORATORY CONTROL SAMPLES

| Analyte | Date/Time | | Date/Time | | Dilution | QC | |
|---------------------------------|--------------|-----|--------------|-----|----------|----------|-----------|
| | Prepared By | | Analyzed By | | | Sample | Qualifier |
| Total Kjeldahl Nitrogen | 16JAN09 1220 | 93 | 20JAN09 1418 | 93 | | W27773-2 | |
| Total Kjeldahl Nitrogen | 16JAN09 1220 | 93 | 20JAN09 1419 | 93 | | W27773-3 | |
| COD | - | | 15JAN09 1056 | 258 | | W27754-2 | |
| COD | - | | 15JAN09 1056 | 258 | | W27754-3 | |
| Total Dissolved Solids | 15JAN09 1749 | 285 | 16JAN09 1238 | 285 | | W27764-2 | |
| Total Dissolved Solids | 15JAN09 1749 | 285 | 16JAN09 1238 | 285 | | W27764-3 | |
| BOD 5-day | 15JAN09 0852 | 285 | 20JAN09 0927 | 285 | | W27748-2 | |
| BOD 5-day | 15JAN09 0852 | 285 | 20JAN09 0928 | 285 | | W27748-3 | |
| Total Organic Carbon | 19JAN09 0837 | 93 | 19JAN09 1059 | 93 | | W27777-2 | |
| Total Organic Carbon | 19JAN09 0837 | 93 | 19JAN09 1120 | 93 | | W27777-3 | |
| Total Suspended Solids | 16JAN09 1149 | 258 | 16JAN09 1413 | 258 | | W27771-2 | |
| Total Suspended Solids | 16JAN09 1149 | 258 | 16JAN09 1413 | 258 | | W27771-3 | |
| Metals | 16JAN09 0837 | 282 | 16JAN09 1316 | 270 | | S24713-2 | |
| Metals | 16JAN09 0837 | 282 | 16JAN09 1319 | 270 | | S24713-3 | |
| Chloride | 15JAN09 1308 | 257 | 16JAN09 1339 | 257 | | S24706-2 | |
| Chloride | 15JAN09 1308 | 257 | 16JAN09 1400 | 257 | | S24706-3 | |
| Oil and Grease | 15JAN09 0851 | 100 | 15JAN09 1018 | 100 | | B5509-2 | |
| Oil and Grease | 15JAN09 0851 | 100 | 15JAN09 1018 | 100 | | B5509-3 | |
| Base/Neutral and Acid Compounds | 16JAN09 1243 | 271 | 21JAN09 1351 | 194 | | B5511-2 | |
| Base/Neutral and Acid Compounds | 16JAN09 1243 | 271 | 21JAN09 1428 | 194 | | B5511-3 | |
| Volatile Organic Compounds | | | 16JAN09 1046 | 167 | | V6905-2 | |

MATRIX SPIKE SAMPLES

| Analyte | Date/Time | | Date/Time | | Dilution | QC | |
|----------------------------|--------------|-----|--------------|-----|----------|----------|-----------|
| | Prepared By | | Analyzed By | | | Sample | Qualifier |
| Total Kjeldahl Nitrogen | 16JAN09 1652 | 93 | 20JAN09 1519 | 93 | 2 | W27773-5 | D |
| COD | - | | 15JAN09 1733 | 285 | | W27754-4 | |
| COD | - | | 15JAN09 1733 | 285 | | W27754-5 | |
| Total Organic Carbon | 19JAN09 0837 | 93 | 19JAN09 1141 | 93 | | W27777-5 | |
| Chloride | 15JAN09 1308 | 257 | 16JAN09 1852 | 257 | | S24706-4 | X |
| Chloride | 15JAN09 1308 | 257 | 16JAN09 1913 | 257 | | S24706-5 | X |
| Volatile Organic Compounds | | | 16JAN09 1547 | 167 | | V6905-4 | |

LABORATORY BLANKS

| Analyte | Date/Time | | Date/Time | | Dilution | QC | |
|-------------------------|--------------|-----|--------------|-----|----------|----------|-----------|
| | Prepared By | | Analyzed By | | | Sample | Qualifier |
| Total Kjeldahl Nitrogen | 16JAN09 1220 | 93 | 20JAN09 1417 | 93 | | W27773-1 | |
| COD | - | | 15JAN09 1056 | 258 | | W27754-1 | |
| Total Dissolved Solids | 15JAN09 1749 | 285 | 16JAN09 1238 | 285 | | W27764-1 | |



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QUALITY CONTROL PREPARATION REPORT

LABORATORY BLANKS

| Analyte | Date/Time Prepared By | | Date/Time Analyzed By | | Dilution | QC Sample | Qualifier |
|---------------------------------|-----------------------|-----|-----------------------|-----|----------|-----------|-----------|
| BOD 5-day | 15JAN09 0852 | 285 | 20JAN09 0923 | 285 | | W27748-1 | |
| Total Organic Carbon | 19JAN09 0837 | 93 | 19JAN09 1039 | 93 | | W27777-1 | |
| Total Suspended Solids | 16JAN09 1149 | 258 | 16JAN09 1413 | 258 | | W27771-1 | |
| Metals | 16JAN09 0837 | 282 | 16JAN09 1312 | 270 | | S24713-1 | |
| Chloride | 15JAN09 1308 | 257 | 16JAN09 1318 | 257 | | S24706-1 | |
| Oil and Grease | 15JAN09 0851 | 100 | 15JAN09 1018 | 100 | | B5509-1 | |
| Base/Neutral and Acid Compounds | 16JAN09 1243 | 271 | 21JAN09 1314 | 194 | | B5511-1 | R |
| Volatile Organic Compounds | | | 16JAN09 1152 | 167 | | V6905-1 | |



CHAIN OF CUSTODY / ANALYSIS REQUEST FORM

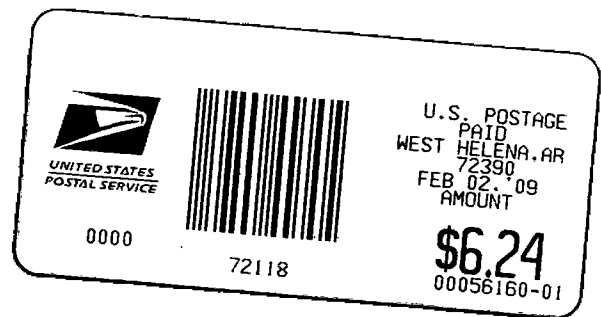
PAGE OF

| Client: <u>Rineco</u> | | | PO No. | | NO OF BOTTLES | ANALYSES REQUESTED | | | | | | | | | | AIC CONTROL NO: <u>125946</u> | | | | | |
|---|-----------------------|-----------------------------|---|----------|---------------|--|---|----------|----------|--------------------------------|----------|-----------|--|--|--|----------------------------------|--|------------------------------------|--|----------------------|--|
| Project Reference: <u>Synthetic Performance Initiators, Inc.</u> | | | SAMPLE MATRIX | | | <u>VOA</u> <u>OTG</u> <u>BOD, CL, TDS, TSS</u> <u>CO_D, TKN, TOC</u> <u>BNA, BZS</u> <u>ZN</u> | | | | | | | | | | AIC PROPOSAL NO: | | | | | |
| Project Manager: | | | G R A M B | C O M P | W A T E R | S O I L | B O T T L E S | | | | | | | | | | | Carrier: <u>AIC</u> | | | |
| Sampled By: <u>Lupe Hepton</u> | | | | | | | | | | | | | | | | | | Received Temperature C <u>2</u> | | | |
| AIC No. | Sample Identification | Date/Time Collected | | | | | | | | | | | | | | | | | | Remarks | |
| | <u>Effluent</u> | <u>1-14-09 1228</u> | <u>X</u> | | <u>X</u> | | <u>4</u> | <u>X</u> | <u>X</u> | | | | | | | | | | | | |
| | <u>"</u> | <u>1/13-14/09 1220-1220</u> | | <u>X</u> | <u>X</u> | | <u>6</u> | | | <u>X</u> | <u>X</u> | <u>X</u> | <u>X</u> | | | | | | | | |
| Container Type | | | | | | | | <u>V</u> | <u>G</u> | <u>P</u> | <u>P</u> | <u>G</u> | <u>P</u> | | | | | | | Field pH calibration | |
| Preservative | | | | | | | | <u>H</u> | <u>S</u> | <u>NO</u> | <u>S</u> | <u>NO</u> | <u>N</u> | | | | | | | on _____ @ _____ | |
| G = Glass P = Plastic V = VOA vials H = HCl to pH2 T = Sodium Thiosulfate | | | NO = none S = Sulfuric acid pH2 N = Nitric acid pH2 B = NaOH to pH12 Z = Zinc acetate | | | | | | | | | | | | | | | | | | |
| Turnaround Time Requested: (Please circle) <u>NORMAL</u> or EXPEDITED IN _____ DAYS | | | | | | | Relinquished By: <u>Lupe Hepton</u> | | | Date/Time: <u>1-14-09 1445</u> | | | Received By: | | | Date/Time: | | | | | |
| Expedited results requested by: _____ | | | | | | | Relinquished By: | | | Date/Time: | | | Received in Lab By: <u>[Signature]</u> | | | Date/Time: <u>1-14-09 1445</u> | | | | | |
| Who should AIC contact with questions: _____ | | | | | | | Comments: <u>Tech. Time = 9 Hours, 1 ISCO 500 miles</u> | | | | | | | | | | | | | | |
| Phone: _____ Fax: _____ | | | | | | | <u>Sampled per EPA-600/4-82-029</u> | | | | | | | | | | | | | | |
| Report Attention to: | | | | | | | | | | | | | | | | | | | | | |
| Report Address to: | | | | | | | | | | | | | | | | | | | | | |

CERTIFIED MAIL™



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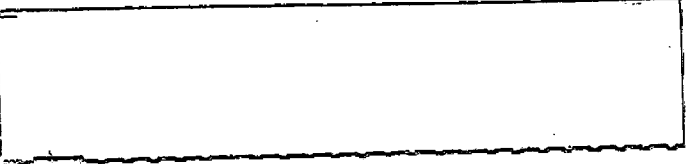
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FROM:
Syrgis Performance Initiators, Inc.
334 Phillips 311 Road
Helena, AR 72342-9033

Attn: Jeff Wages



RECEIVED RECEIPT REGISTERED

SHIP TO:
Arkansas Dept. of Environmental Quality
Water Division
5301 Northshore Drive
North Little Rock, AR 72118-5317
Attn: Rufus J. Torrence

RECEIVED RECEIPT REGISTERED

