

SEPARATOR



54-00092



WATER NPDES



PRETREATMENT



02/1992



ARP001013

INDUSTRIAL BASELINE MONITORING REPORT

Instructions: Please complete this form in as much detail as possible. Include additional information on attached sheets as necessary. Refer to the supplemental instructions and return this report to the address shown in the instructions.

(1) Identifying Information:

A. Legal Name: The Norac Company, Inc.  
 Mailing Address: P.O. Box 577  
405 S. Motor Ave.  
Azusa, CA Zip: 91702

B. Facility Name: The Norac Company, Inc.  
 Location: Industrial Park Rd.  
West Helena, AR Zip: 72390

C. Name of Owners: Dr. Chester M. McCloskey

D. Name of Operators: Neville A. Jones

E. Facility Contact (provide the name, title & phone number of a designated person to contact if additional information is necessary.) Jerry Macala  
Environmental Affairs Dir. (818)334-2908

F. Number of Employees 30 G. Number of Shifts 3

H. Number of Months/Year in Operation 12

I. Provide the name of the publicly owned treatment works (sewerage authority, municipality, etc.) that receives the wastewater discharges from this facility (if this facility is not connected to a sewerage system describe where wastewater is discharged.) Helena Municipal Water Company

J. Provide the date the facility began/will begin discharging to the publicly owned treatment works (sewerage authority, municipality, etc.) February 1992  
 Date facility began operation June 1982

(2) Permits:

Describe all environmental control permits held by or for the facility

Describe Title of the Permit	Permit No.	Issuing Office	Exp. Date
Air Pollution Control	624-AR-1	ADPC & E	NONE
Air Pollution Control	625-AR-1	ADPC & E	NONE
Waste Water Treatment	2543	ADPC & E	NONE

ARPO01013



(3) Description of Operations:

A. List Raw Materials Used: \_\_\_\_\_  
Stearic Acid, Zinc Oxide, Calcium Oxide, Methyl Ethyl Ketone, Hydrogen Peroxide, Sulfuric Acid, 2,2,4-Trimethyl-1,3-Pentanediol Diisobutyrate (TXIB), Dimethyl Phthalate, Dimethyl Glutarate, Dimethyl Adipate, Diprpylene Glycol, Benzoyl Peroxide

B. List Chemicals Used: Same as Above

C. Describe Manufacturing or Service Activities Conducted and the Final Products: Chemical Manufacturing: Methyl Ethyl Ketone Peroxide, Metallic Salts of Stearic Acid

D. Summarize each Regulated Process: \_\_\_\_\_

Process Description	Production Rate	Pretreatment Standard		SIC Code
		Category	Subpart	
* Methyl Ethyl Ketone Peroxide	8400Kg/Day	OCPSE 414.85	H	2869
Metallic Stearate Mfg,	9200Kg/Day	OCPSE 414.85	H	2869

\* From 1992 Production Data as reported to USITC

E. Provide on a separate sheet:

- 1) a schematic drawing of flow chart of each regulated process that generates wastewater.
- 2) a schematic drawing showing all wastewater flows (regulated and unregulated), location of any treatment system, and sampling locations and estimated flows for each individual wastestream.
- 3) a schematic process diagram which indicates points of discharge to the POTW from regulated processes.

(4). Flow Measurement:

7. Total Plant Flow in Gallons Per Day (gpd):

Average 12000 Maximum 18000

B. Individual Process Flows in Gallons Per Day (gpd)

	Average Flow Rate (gpd)	Maximum Flow Rate (gpd)	Type of Discharge (Batch, etc)
Regulated Process	11000	16500	Continuous
MEKP Mfg.	100	150	Continuous
Stearate Mfg.			

Unregulated Process (NONE)	Average Flow Rate (gpd)	Maximum Flow Rate (gpd)	Type of Discharge (Batch, etc.)
Boiler	100	150	Batch/Continuous
DI water	100	150	Batch
Cooling Water	200	300	Continuous
Sanitary Wastewater	500	750	Batch

(5) Measurement of Pollutants

A. Provide on a Separate Sheet:

- 1) The user shall identify the Pretreatment Standards applicable to each regulated process.
- 2) A description of any and all wastewater treatment utilized (show treatment system location in relation to process flows and sampling points on schematic drawing required by Question 3.E.).



**B. Analysis of Regulated Flows:**  
 The industrial user must perform sampling and analysis of the effluent from all regulated processes (after treatment, if applicable). Provide the analytical data for the regulated processes in the space provided below. Attach additional sheets if necessary. (Only those pollutants specifically regulated by the applicable category need be reported.)

Regulated Process: \_\_\_\_\_

Pollutant (mg/l)											
Maximum											
Average											

Sample Location: \_\_\_\_\_

Sample Type (composite samples are required except where not feasible or where grab samples are specifically required (see 40 CFR 403.12(b)(5)(iii))): \_\_\_\_\_

Number of Samples and Frequency Collected: \_\_\_\_\_

Analytical Methods Used: \_\_\_\_\_

**C. Analysis of Total Plant Flow (if appropriate)**  
 An industrial user may sample and analyze the total plant flow and calculate an equivalent concentration limit using the combined wastestream formula if regulated process flows are mixed with other flows prior to treatment and/or sampling. Record the analytical results for all regulated pollutants below. Record the calculated concentration limits as well as the actual measured concentrations.

Pollutant (mg/l)	*SEE ATTACHED*									
MEC*										
AEC*										
AMMC*										
AAAC*										

Sample Location: Treatment Pond Outfall  
 Sample Type (composite samples are required except where not feasible or where grab samples are specifically required (see 40 CFR 403.12(b)(5)(iii))): Grab  
 Number of Samples and Frequency Collected: ONE SAMPLE, TWICE YEARLY  
 Analytical Methods Used: EPA 624, EPA 625, METALS

- \*MEC - Maximum Equivalent Concentration (derived through the combined wastestream formula)
- \*AEC - Average Equivalent Concentration (derived through the combined wastestream formula)
- \*AMMC - Actual Measured Maximum Concentration
- \*AAAC - Actual Measured Average Concentration



## BMR.XLS

	40CFR 414.85		CWF		3/17/93 Wastewater	
	MAX	AVE	MEC	AEC	AMMC	AAAC
Benzene	57	134	53	124	<2	<2
Carbon Tetrachloride	142	380	131	352	<2	<2
Chlorobenzene	142	380	131	352	<2	<2
1,2,4-Trichlorobenzene	196	794	181	734	<10	<10
Hexachlorobenzene	196	794	181	734	<10	<10
1,2-Dichloroethane	180	574	167	531	<2	<2
1,1,1-Trichloroethane	22	59	20	55	<2	<2
Hexachloroethane	196	794	181	734	<10	<10
1,1-Dichloroethane	22	59	20	55	<10	<10
1,1,2-Trichloroethane	32	127	30	117	<10	<10
Chloroethane	110	295	102	273	<10	<10
Chloroform	111	325	103	301	<10	<10
1,2-Dichlorobenzene	196	794	181	734	<2	<2
1,3-Dichlorobenzene	142	380	131	352	<2	<2
1,4-Dichlorobenzene	142	380	131	352	<2	<2
1,1-Dichloroethene	22	60	20	56	<10	<10
trans-1,2-Dichloroethene	25	66	23	61	<2	<2
1,2-Dichloropropane	196	794	181	734	<2	<2
1,3-Dichloropropene	196	794	181	734	<4	<4
Ethylbenzene	142	380	131	352	<10	<10
Methylene Chloride	36	170	33	157	<10	<10
Methyl Chloride	110	295	102	273	<10	<10
Hexachlorobutadiene	142	380	131	352	<10	<10
Nitrobenzene	2237	6402	2069	5922	<10	<10
2-Nitrophenol	65	231	60	214	<10	<10
4-Nitrophenol	162	576	150	533	<50	<50
4,6-Dinitro-o-cresol	78	277	72	256	<50	<50
Tetrachloroethene	52	164	48	152	<2	<2
Toluene	28	74	26	68	<2	<2
Trichloroethene	26	69	24	64	<2	<2
Vinyl Chloride	97	172	90	159	<10	<10
total Cyanide	420	1200	389	1110	<20	<20
total Lead	320	690	296	638	5.1	5.1
total Zinc	1050	2610	971	2414	475	475
above data in ug/L						
MEC= Maximum Equivalent Concentration						
AEC= Average Equivalent Concentration						
AMMC= Actual Measured Maximum Concentration						
AAAC= Actual Measured Average Concentration						
regulated flow	11100 gpd					
total (reg + dilution) flow	12000 gpd					



(6) Certification:

A. Is the facility meeting applicable categorical pretreatment standards on a consistent basis? YES X NO \_\_\_\_\_

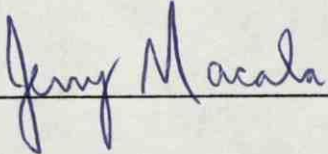
B. If no, do you require:

1) additional operation and maintenance (O&M) to achieve compliance? YES \_\_\_\_\_ NO \_\_\_\_\_

2) new or additional pretreatment facilities to achieve compliance? YES \_\_\_\_\_ NO \_\_\_\_\_

3) Name of Qualified Professional that reviewed this certification:

Name & Title Jerry Macala, Regulatory Affairs Director

Signature  Date June 21, 1993

(7) Compliance Schedule:

A. If additional O&M or new or additional pretreatment will be required to meet categorical pretreatment standards on a consistent basis, attach a schedule on a separate sheet projecting increments of progress indicating dates for the commencement and completion of major events leading to compliance with the standard. Note: the final compliance date in this schedule shall not be later than the compliance date for the applicable pretreatment standard. Written progress reports are required within 14 days of each of the compliance dates specified in the compliance schedule.

NONE REQUIRED

E. Signatory Requirement

I certify under penalty of law that I have personally examined and am familiar with the information in this Baseline Monitoring 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.

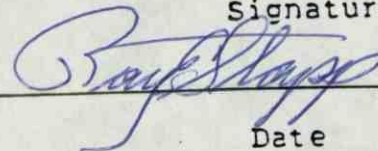
Name - Authorized Representative

Ray E. Stapp

Official Title

Vice President Mfg.

Signature



Date

June 21, 1993



**Torrence, Rufus**

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**From:** Torrence, Rufus  
**Sent:** Thursday, April 28, 2005 9:45 AM  
**To:** Shafii, Mo  
**Cc:** 'bohme.lee@epamail.epa.gov'; Gilliam, Allen  
**Subject:** The Norac Co in West Helena

<b>Tracking:</b>	<b>Recipient</b>	<b>Delivery</b>	<b>Read</b>
	Shafii, Mo	Delivered: 4/28/2005 9:45 AM	Read: 4/28/2005 9:52 AM
	'bohme.lee@epamail.epa.gov'		
	Gilliam, Allen	Delivered: 4/28/2005 9:45 AM	Read: 4/28/2005 9:46 AM

Mo,

Yesterday, I visited Amerimax and The Norac Co in West Helena. The Amerimax visit was routine but Wally McCloskey, President and Owner (Norac is a family owned company with two locations in the USA) was present and he was curious about Norac categorical standing. Another Norac plant is located in Region IX in Azusa, California. Region IX has the "pilot plant" regulated as 40CFR414; the pilot plant is identical to the one in West Helena.

When I took over the indirect dischargers in 1993, I had about 60 CIUs. The American Greeting Company in Osceola, AR had been reporting as a 40CFR433 CIU for seven years but after a corporate review of their facility, the Osceola plant petitioned ADPC&E to stop reporting because their process was not regulated. I checked with Lee and he said, "If they are not regulated, they don't have to report". So Steve Bainter and I reviewed all 60 CIUs to check their categorical standing. At that time four OCPSF CIUs were reporting to ADPC&E (one of these was Norac); I advised all four that they were not categorical and three stopped reporting, immediately. Norac refused to stop because Region IX had their California plant regulated. Nonetheless, Steve and I reduced the number from 60 down to 30. Currently, about 30 CIUs are still reporting to ADEQ.

I relegated ADPC&E authority to Region VI to make the final decision on Norac; Norac checked with Region VI and said that Region VI deemed them categorical. I asked Region VI/Norac to send me a copy of their determination for my records. To date neither Norac or Region VI has replied; therefore, I list Norac as "pending".

I will not send Norac an official reply until everyone agrees; I told Norac that in the meantime only HQ has the final authority on their categorical standing since two regions are involved.

Do you have an opinion on how to proceed?

Rufus

**Pretreatment Industrial Inspection**

**Facility Information**

Facility Name: <u>The Norac Co</u>	Site Address: <u>334 Phillips 311 Road West Helena, AR 72342</u>
Signatory Authority (Name & Title): <u>Jeff Wages, EHS Coordinator</u>	Mailing Address (if different):
Phone: <u>(870) 572-9061</u>	<u>Same</u>
Fax: <u>(870) 572-1416</u>	
Address: <u>Same</u>	Corporate Owner Name and address (if applicable): <u>X</u>
Phone: <u>''</u>	<u>The Norac Company</u>
Fax: <u>''</u>	<u>405 South Motor Ave / Azusa, CA</u>
Contact Person (Name & Title): <u>Jeff Wages, EHS Coord</u>	Phone: <u>(818) 334-2908</u>
e-mail: <u>JWages@norac.com</u>	Fax: <u>(818) 334-3512</u>
Facility Permit # <u>N/A</u> or ARP00 <u>1013</u>	Corporate <del>CEO</del> <u>Jeff Macala, Env Mgr</u>
POTW (City) IU discharges to: <u>Helena WTP</u>	e-mail: <u>Robert Summers, Env Mgr</u>
Industrial Classification: <input type="checkbox"/> Categorical <u>X</u>	Last Inspection Date: <u>N/A</u>
	POTW's NPDES #AR00 <u>43389</u>
	<input type="checkbox"/> Significant
If Categorical, list which CFR #(s) the facility is subject to: <u>*Under Review</u>	

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II. Pre-Inspection Meeting	Page	of
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B. Facility Permits		
C. Additional Comments		
III. Attachments	"Yes" indicates item exists at the facility and attachments will be included	
	"No" indicates item does not exist at the facility and attachments aren't necessary	
A. Industrial Processes <u>A-1</u>	yes <input checked="" type="checkbox"/> no <input type="checkbox"/>	Page of
B. Pollution Prevention Activities	yes <input type="checkbox"/> no <input checked="" type="checkbox"/>	Page of
C. Pretreatment System	yes <input type="checkbox"/> no <input type="checkbox"/>	Page of
D. Chemical Storage	yes <input type="checkbox"/> no <input type="checkbox"/>	Page of
E. Spill/Slug Control Plan	yes <input type="checkbox"/> no <input type="checkbox"/>	Page of
F. Self-Monitoring/TOMP	yes <input type="checkbox"/> no <input type="checkbox"/>	Page of

Comments :

Inspector's Name (Print): <u>Rufus Torrence</u>	Signature: <u>[Signature]</u>
IU Rep's Name (Print): <u>Jeff Wages</u>	Signature: <u>Jeff Wages</u>
Date and Time Inspection Ended: <u>4-27-05 @ 12:45 pm</u>	

\* Wally McCloskey, President



I. Summary of Inspection

A. Inspection and Objective (Complete Before Inspection)

- |   |   |                                     |                                      |
|---|---|-------------------------------------|--------------------------------------|
| <input type="checkbox"/> Permit Renewal   | <input type="checkbox"/> Annual - <i>Bi</i> | <input type="checkbox"/> Spill/Slug | <input type="checkbox"/> Unscheduled |
| <input type="checkbox"/> New Construction | <input type="checkbox"/> Noncompliance      | <input type="checkbox"/> Follow-up  | <input type="checkbox"/> Complaint   |

Inspection Objective(s)

Checklist of items to be reviewed and/or visually inspected:

- |   |   |   |
|---|---|---|
| <input type="checkbox"/> Pre-inspection Meeting | <input type="checkbox"/> Permit Conditions    | <input type="checkbox"/> Safety Concerns                      |
| <input type="checkbox"/> Process Inspection     | <input type="checkbox"/> Pretreatment Process | <input type="checkbox"/> TOMP                                 |
| <input type="checkbox"/> Chemical Storage       | <input type="checkbox"/> Discharge point(s)   | <input type="checkbox"/> Spills/Slug Control Plan             |
| <input type="checkbox"/> Records Review         | <input type="checkbox"/> RCRA information     | <input type="checkbox"/> Process/Flow/Pretreatment Schematics |
| <input type="checkbox"/> IU sampling procedures | <input type="checkbox"/> Flow/pH Meter(s)     | <input type="checkbox"/> Calibration Records                  |
| <input type="checkbox"/> MSDS Inventory List    | <input type="checkbox"/> New MSDS             | <input type="checkbox"/>                                      |

Comments:

B. Inspection Analysis

Were there any deficiencies/violations identified and noted during the inspection?  Yes  No

Provide a brief narrative of deficiencies/violations or other concerns in the following areas:

Records Review

Process Area(s)

*Benzoyl Peroxide Added in late 90's*

Pretreatment System

Self Monitoring Procedures

Diversion/Sewer Meters

Spill/Slug Control Plan

Sampling Point

Chemical Storage



## H. Pre-Inspection Meeting

### A. General Information

Date and Time Inspection Started: 4-27-05 @ 11:30 SIC code(s): 2869

IU Reps/Titles: Jeff Wages Control Authority Reps/Titles: Rufus Torrence, Pret. Eng

End product(s): Organic Peroxides & Metallic Steroids Approx. # of units produced: 18500 tons

Days of Operation: M-F Days of Production (if different):

Hours of Operation: 24 hr/day Hours of Production (if different):

Shift 1, hrs.: 7am to 3pm Shift 2, hrs.: 3 to 11 pm Shift 3, hrs.: 11 pm to 7 AM

# of Employees: 105 Peak Mos.: May "Off" Mos.: December

Are there any scheduled plant shutdowns? Yes  No  N/A  If yes, when? Last 2 weeks each year

Are there designated plant clean-up days? Yes  No  N/A  If yes, when?

Is the facility currently in compliance with all pretreatment reporting requirements and limits? Yes  No

If No, explain: Unknown - CIU under categorical Determination

Are there any Special Entry Procedures for the Discharge/Sample point locations? Yes  No

If Yes, explain:

Are there any Safety Concerns or Identified Hazards that the inspector should be aware of? Yes  No

If Yes, explain:

Has there been any changes since the last inspection regarding the following items:

Plant/flow/process layout? Yes  No  If yes, obtain copy of updated schematic for facility file.

Processes? Yes  No  If yes, explain:

Production Levels? Yes  No  If yes, explain:

Raw materials? Yes  No  If yes, explain:

Flow rates? Yes  No  If yes, explain:

Are regulated and non-regulated wastestreams combined? yes  no

Prior to Pretreatment System? yes  no  N/A

If Yes, was the CWF used to calculate limits? yes  no

Prior to connection to the POTW sanitary sewer? yes  no  N/A

At connection to sanitary sewer? yes  no  N/A

Production and flows verified for Production-Based Standards? yes  no  N/A

What is the current avg. production rate and process flow?

Is the prod. rate or flow substantially different (+/- 20%) from those used in calculating limits? yes  no





**Attachment A: Industrial Process(es)**

List process(es) generating wastewater. Note if it's categorical (federally regulated w/pretreatment limits) or not

1.	Yes <input type="checkbox"/> No <input type="checkbox"/>	4.	Yes <input type="checkbox"/> No <input type="checkbox"/>
2.	Yes <input type="checkbox"/> No <input type="checkbox"/>	5.	Yes <input type="checkbox"/> No <input type="checkbox"/>
3.	Yes <input type="checkbox"/> No <input type="checkbox"/>	6.	Yes <input type="checkbox"/> No <input type="checkbox"/>

Were processes visually inspected? Yes  No  N/A

Brief description of process(es):

General observations of facility's indoor housekeeping: Good

General observations of area outside facility's building: EXCELLEN

Check all sources of wastewater being discharged into the City's collection system. Indicate avg. gal/day, measured (M) or estimated (E). If batch (B) discharged, list frequency and volume (1000 gal/month, e.g.).

<input type="checkbox"/> Process Rinse Overflows	<input type="checkbox"/> Equip. Cleanup	<input type="checkbox"/> Floor Cleanup	<input type="checkbox"/> Spent Bath Solutions
<input type="checkbox"/> Product Cleaning	<input type="checkbox"/> Forklifts Maint./Wash	<input type="checkbox"/> Tank Dragout	<input type="checkbox"/> Air Pollution Devices
<input type="checkbox"/> Boiler Blowdown	<input type="checkbox"/> Spent Rinse Tanks	<input type="checkbox"/> Equipment Coolants	<input type="checkbox"/> Non-Contact Cooling Water
<input type="checkbox"/> Stormwater	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

List Major Raw Materials and Chemicals used:

Check Waste Stream Pollutants of Concern from Process(es)

<input type="checkbox"/> BOD	<input checked="" type="checkbox"/> CN <sup>-</sup>	<input checked="" type="checkbox"/> Metals (List) <u>Pb, Zn</u>	<input type="checkbox"/> Solvents (List)
<input type="checkbox"/> TSS	<input type="checkbox"/> Cl <sub>2</sub>		
<input type="checkbox"/> O&G	<input type="checkbox"/> S <sup>-</sup>		
<input type="checkbox"/> pH	<input type="checkbox"/>		

Are there floor drains in the Process area?  Yes  No If yes list number and the location of all floor drains:



**Attachment B: Pollution Prevention (P2) / Recycling Activities**

Does the facility have a written P2 Plan? Yes  No

Does this facility practice P2? Yes  No

Environmental Management System in place? Yes  No

ISO Certified? Yes  No

Written Standard Operating Procedures? Yes  No

Explain:

Preventative Maintenance Program Yes  No  (hydraulic systems, valves, pumps, etc)

Explain:

Water Reuse: Yes  No

Explain:

Cost Accounting to Track Savings: Yes  No

Explain:

Inventory Control / "Green Purchasing": Yes  No  (lean manufacturing/"env. friendly purchasing", etc)

Explain:

Employee Training: Yes  No

Explain:

Spent Solvent Reclamation? Yes  No

Explain:

Recycle Paper, Aluminum, Boxes, and Pallets? Yes  No

Explain:

Recycle Waste Oil, Solvents, and Lubricants? Yes  No

Explain:

Other Activities

P2 Equipment/Practices in use:

- |   |   |
|---|---|
| <input type="checkbox"/> Overflow Alarms                                    | <input type="checkbox"/> Aqueous Cleaning Solutions                 |
| <input type="checkbox"/> Fog Spray Rinsing                                  | <input type="checkbox"/> Countercurrent Rinsing                     |
| <input type="checkbox"/> Dragout Collection Trays                           | <input type="checkbox"/> Seal-Less Pumps                            |
| <input type="checkbox"/> Air Jets to Blow Parts Dry                         | <input type="checkbox"/> Secondary Containment of Process Solutions |
| <input type="checkbox"/> Aqueous Paint Stripping Solutions                  | <input type="checkbox"/> Bead Blasting to Remove Paint              |
| <input type="checkbox"/> Water Soluble Cutting Fluids                       | <input type="checkbox"/> Recycle Overspray                          |
| <input type="checkbox"/> In-Process Recycle (Ion Exchange, Reverse Osmosis) | <input type="checkbox"/> Conductivity Meters                        |
| <input type="checkbox"/> Dead Rinse Tanks                                   | <input type="checkbox"/> Bath / Rinse Filtration                    |

### Attachment C: Pretreatment System

- Are wastestreams segregated before pretreatment?  Yes  No  N/A
- Are they pretreated prior to discharge to the sanitary sewer?  Yes  No  N/A
- Was the pretreatment system visually inspected during this visit?  Yes  No  N/A

Check which of the following are utilized for pretreatment prior to discharge to sanitary sewer:

- |   |   |  |   |
|---|---|--|---|
| <input type="checkbox"/> Dissolved air floatation | <input type="checkbox"/> Membrane Tech.       | <input type="checkbox"/> Ion Exchange    | <input type="checkbox"/> Biological Treatment |
| <input type="checkbox"/> Centrifugation           | <input type="checkbox"/> Flow Equalization    | <input type="checkbox"/> Ozonation       | <input type="checkbox"/> Chlorinating         |
| <input type="checkbox"/> Chemical Precipitation   | <input type="checkbox"/> Oil/Water Separation | <input type="checkbox"/> Reverse Osmosis | <input type="checkbox"/> Grit Removal         |
| <input type="checkbox"/> Sludge Filter Press      | <input type="checkbox"/> Grease Trap          | <input type="checkbox"/> Screen          | <input type="checkbox"/> Solvent Separation   |
| <input type="checkbox"/> pH Adjustment            | <input type="checkbox"/> Sand Trap            | <input type="checkbox"/> Sedimentation   | <input type="checkbox"/> Silver Recovery      |
| <input type="checkbox"/> Belt/Disk Oil Skimmer    | <input type="checkbox"/>                      | <input type="checkbox"/>                 | <input type="checkbox"/>                      |

Provide Brief Description of Pretreatment System (leaks, cleanliness, equipment not in working order):

Two Lagoons to remove DMP & H<sub>2</sub>O<sub>2</sub>

Does the description match the schematic currently on file?  Yes  No  N/A

System Operator(s) Name:

Does discharge permit require licensed operator?  Yes  No  N/A

Is the System Operator(s) licensed by the State of Arkansas (per Reg. # 3?)  Yes  No  N/A

List Name(s) and License classification:

Is training provided to the Pretreatment System Operator(s)?  Yes  No  N/A

If Yes, list type and frequency:

Is the discharge from the Pretreatment System?  Batch  Continuous  Combination

If any discharges are batch type or combination, describe the following:

Volume of each batch: \_\_\_\_\_ gallons per

Describe process from which batch originated (spent bath, e.g.):

Approximate duration of batch discharge:

Meter Type	Calibration Procedure and Frequency	Comments (Totalizer Reading)



**Attachment D: Chemical Storage Area(s)**

Does the facility have a designated chemical storage area(s)?  Yes  No

Was this area(s) visually inspected?  Yes  No  N/A

Describe Chemical Storage Area(s)	Are there floor drains in this area?	If yes, where does this drain lead to?
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1. MEKP	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Pretreatment <input type="checkbox"/> Sanitary Sewer <input type="checkbox"/> Storm Sewer
---------	---	--

2.	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Pretreatment <input type="checkbox"/> Sanitary Sewer <input type="checkbox"/> Storm Sewer
----	--	--

3.	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Pretreatment <input type="checkbox"/> Sanitary Sewer <input type="checkbox"/> Storm Sewer
----	--	--

4.	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Pretreatment <input type="checkbox"/> Sanitary Sewer <input type="checkbox"/> Storm Sewer
----	--	--

Does the Chemical Storage Area(s) contain any of the following?

- |  |   |
|--|---|
| <input checked="" type="checkbox"/> Dikes, Berms for Containment               | <input type="checkbox"/> Plugs for Floor Drains             |
| <input type="checkbox"/> Secondary Tanks for Holding                           | <input type="checkbox"/> Premix (low) Concentrations        |
| <input type="checkbox"/> Alarms  | <input type="checkbox"/> Chain restraints, limited access   |
| <input type="checkbox"/> Spills Control Kits for Cleanup                       | <input checked="" type="checkbox"/> Notification Procedures |
| <input checked="" type="checkbox"/> Chemical desegregation within Storage Area | <input type="checkbox"/> Other                              |

Chemical Inventory List (MSDS) on file?  Yes  No  N/A

Were any new MSDS reviewed during the Inspection?  Yes  No  N/A

If yes, list below:

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Chemical storage comments: \* Novac is primarily a chemical company so chemicals are stored over the entire plant but they do have a bulk storage area. Storage areas are scattered over acreage and insulated for safety; earth berms prevent surface run-off.

Chemical handling procedures (totes, dolly, buckets, hardline, etc):

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**Attachment E: Spill/Slug Control Plan**

Does the facility have a Spill/Slug control plan?	<input type="checkbox"/> yes <input type="checkbox"/> no
If yes are the following: 403.8(f)(2)(v)(A-D) requirements in place?	
Is the spill/slug control plan <2 years old?	<input type="checkbox"/> yes <input type="checkbox"/> no <input type="checkbox"/> N/A
(A) Describes discharge practices including non routine batch (slug) discharges	<input type="checkbox"/> yes <input type="checkbox"/> no <input type="checkbox"/> N/A
(B) Describes storage and handling of chemicals	<input type="checkbox"/> yes <input type="checkbox"/> no <input type="checkbox"/> N/A
(C) Procedures for immediate notification to POTW of slug discharges	<input type="checkbox"/> yes <input type="checkbox"/> no <input type="checkbox"/> N/A
(D) 1. Describes measures for controlling toxic/hazardous pollutants	<input type="checkbox"/> yes <input type="checkbox"/> no <input type="checkbox"/> N/A
2. Describes procedures and equipment for emergency response	<input type="checkbox"/> yes <input type="checkbox"/> no <input type="checkbox"/> N/A
3. Describes follow-up to limit damage suffered by POTW or environment	<input type="checkbox"/> yes <input type="checkbox"/> no <input type="checkbox"/> N/A
4. Does the facility have Spill/Slug Notification Procedures posted?	<input type="checkbox"/> yes <input type="checkbox"/> no <input type="checkbox"/> N/A
5. Are worker personnel provided training in the event of a spill or slug discharge?	<input type="checkbox"/> yes <input type="checkbox"/> no <input type="checkbox"/> N/A
If no:	
Does the facility have Spill/Slug Notification Procedures posted?	<input type="checkbox"/> yes <input type="checkbox"/> no
Is it posted in areas where chemicals are used and stored?	<input type="checkbox"/> yes <input type="checkbox"/> no
If Yes how many?	
Are appropriate personnel provided training in the event of a spill or slug discharge?	<input type="checkbox"/> yes <input type="checkbox"/> no
Have there been any non-routine, episodic discharges or chemical spills in the past year?	<input type="checkbox"/> yes <input type="checkbox"/> no
(Briefly Describe, Include Dates)	
Was the City notified of these occurrences? <input type="checkbox"/> yes <input type="checkbox"/> no <input type="checkbox"/> N/A	

**Visual Inspection of Discharge Lines/Points**

Provide description of manhole condition and flow channel of the following where applicable:

✓ Sampling / Monitoring Point

Total Flow Monitoring Point

*Estimated using city water meter*

Upstream Manhole

Point of Connection:



**Attachment F: Self-Monitoring & if CFR 433, TTO/TOMP Requirements**

Have Operator (or person collecting the sample) to describe how composite and grab samples are collected and preserved. Record descriptions. Include name of individual and title.

Where is the sample point located?

<input type="checkbox"/> End of Process	<input type="checkbox"/> Pretreatment Effluent	<input type="checkbox"/> Total Flow
<input type="checkbox"/> Combined Flow	<input type="checkbox"/> Metered Flow	<input type="checkbox"/> Flow Actuator
<input type="checkbox"/> Private Manhole	<input type="checkbox"/> Utility Manhole	<input type="checkbox"/> Advance Notice Required
<input type="checkbox"/> Safety Hazards Identified	<input type="checkbox"/>	<input type="checkbox"/>

Is the Sample Collection Site Adequate?  Yes  No  N/A

Does the facility rep. request a split sample on this sampling/inspection?  Yes  No

Does the facility perform self-monitoring tests in-house?  Yes  No  N/A

If no, record the name and address of Contract Lab:

Automatic Sampler  or Manual

IU Self-Monitoring Results reviewed:  Yes  No  N/A

Is the Contract Lab certified by ADEQ for test parameters?  Yes  No  N/A

Dates and Times of Sample Analysis Recorded?  Yes  No  N/A

Correct Methods Used for Test Analysis (Refer To 40CFR Part 136)  Yes  No  N/A

EPA recommended holding times being met (Refer to 40CFR Part 136)  Yes  No  N/A

Chain of Custody Records for Self-Monitoring Samples Reviewed  Yes  No  N/A

Were correct Sample Types Collected  Yes  No  N/A

Dates and times of Sample Collection Recorded?  Yes  No  N/A

Were Samples preserved correctly (refer to 40CFR Part 136)  Yes  No  N/A

Were Self Monitoring records on file for past 3 years?  Yes  No  N/A

List the parameters the facility monitors and the frequency:

<input type="checkbox"/> Cd(t)	<input type="checkbox"/> Cu(t)	<input type="checkbox"/> Cr(t)	<input type="checkbox"/> Ni(t)	<input type="checkbox"/> Pb(t)
<input type="checkbox"/> Ag(t)	<input type="checkbox"/> Zn(t)	<input type="checkbox"/> pH	<input type="checkbox"/> CN(t)	<input type="checkbox"/> CN(a-c)
<input type="checkbox"/> TTO-Vol	<input type="checkbox"/> TTO-B/N	<input type="checkbox"/> TTO-A.E.	<input type="checkbox"/> TTO-Pest	<input type="checkbox"/> Cr(hex)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**Toxic Organic Management Plan (TOMP) for Metal Finishers under CFR 433**

How does the IU report TTO?  Analysis  Certification Statement

Does the facility have a Toxic Organic Management Plan?  Yes  No  N/A

If yes, Does the plan show how toxic organics are used, stored, and disposed?  Yes  No  N/A

List the date of the last revision to the TOMP:

Is the TOMP being followed as written?  Yes  No  N/A (If no, provide explanation in comments.)

If no, is there evidence that a TOMP is needed?  Yes  No  N/A (If yes, provide description of evidence in comments.)

Comments:



Send To Printer Back to Map

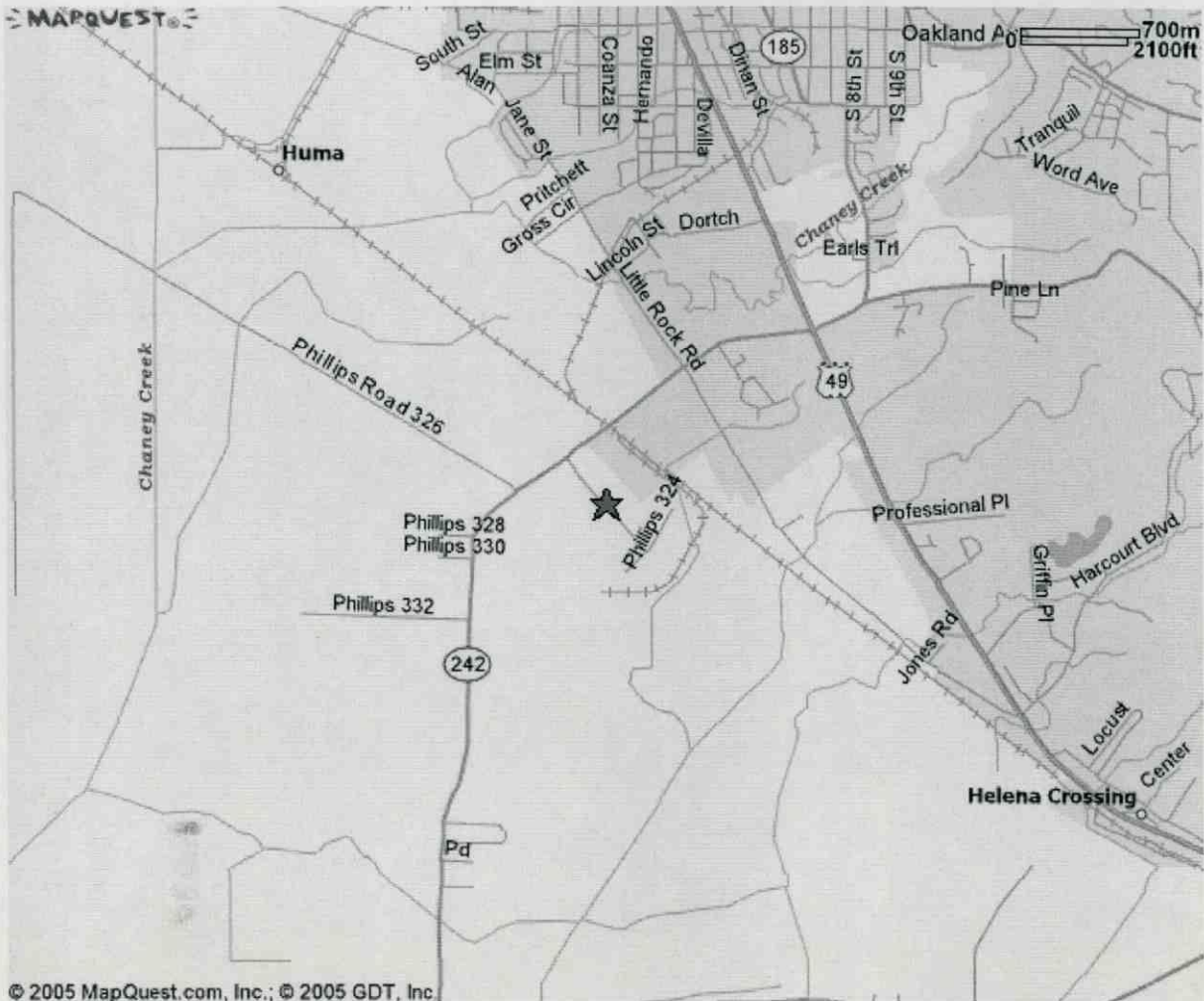
[700-799] Phillips 311  
Helena AR  
72342 US

Notes:

.....  
.....  
.....  
.....

Stay 2 times,  
pay with   
get a FREE NIGHT!

→ go for it now!



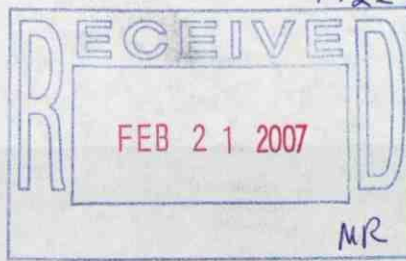
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334 Phillips 311 Road  
 Industrial Park Road  
 Helena, Arkansas 72342-9033



# NORAC

Customer Service: (800) 786-6722  
 Customer Service Fax: (800) 987-0845  
 Phone: (870) 572-9061  
 Fax: (870) 572-1416

February 12, 2007

Mr. Rufus J. Torrence  
 ADEQ NPDES Pretreatment Engineer  
 Arkansas Department of Environmental Quality  
 8001 National Drive  
 PO Box 8913  
 Little Rock, AR 72219-8913

Dear Mr. Torrence:

In accordance with 40CFR403.12(e) please find enclosed our most recent monitoring report for the wastewater discharged from our facility in Helena, Arkansas. During the sampling period we were discharging about 40,000 gallons of water per day based on previous monthly use averages.

Please let me know if you have any questions or need any further information.

Sincerely,

*Jeff Wages*  
 Jeff Wages  
 EHS Coordinator

Enclosures

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

Len Walp - Norac  
 Robert Summers - Norac

*Feb 2007 SAR*  
*File date 2007 02 28*



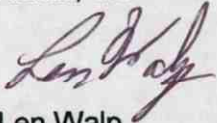
RE: Helena wastewater pretreatment report dated February 12, 2007.

**SUBMISSIONS STATEMENT:**

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

Submitted by,

Norac, Inc.



Len Walp  
Manager of Industrial Operations



permit limits 0702.xls

	day	month	det lim	
sample date				1/22/2007
sample time				0
location = pond outfall				2
flow (gal/day)				~40,000
report date				2/12/2007
Benzene	134	57	4.4	8.4
Carbon Tetrachloride	380	142	2.8	<2.8
Chlorobenzene	380	142	6.0	<6
Chloroethane	295	110	8.7	<8.7
Chloroform	325	111	1.6	1.6
1,1-Dichloroethane	59	22	4.7	<4.7
1,2-Dichloroethane	574	180	2.8	<2.8
1,1-Dichloroethene	60	22	2.8	<2.8
1,2-Dichloropropane	794	196	6.0	<6
Ethylbenzene	380	142	7.2	<7.2
Methyl Chloride	295	110	7.8	<7.8
Methylene Chloride	170	36	10.0	<10
Tetrachloroethene	164	52	4.1	<4.1
Toluene	74	28	6.0	<6
1,1,1-Trichloroethane	59	22	3.8	<3.8
1,1,2-Trichloroethane	127	32	5.0	<5
Trichloroethene	69	26	1.9	<1.9
Vinyl Chloride	172	97	6.4	<6.4
1,3-Dichloropropene	794	196	1.3	<1.3
trans-1,2-Dichloroethene	66	25	1.6	<1.6
1,2-Dichlorobenzene	794	196	38	<38
1,3-Dichlorobenzene	380	142	38	<38
1,4-Dichlorobenzene	380	142	88	<88
1,2,4-Trichlorobenzene	794	196	38	<38
Hexachlorobenzene	794	196	38	<38
Hexachloroethane	794	196	32	<32
Hexachlorobutadiene	380	142	18	<18
Nitrobenzene	6402	2237	38	<38
2-Nitrophenol	231	65	72	<72
4-Nitrophenol	576	162	48	<48
4,6-Dinitro-o-cresol	277	78	480	<480
total Cyanide	1200	420		
total Lead	690	320		
total Zinc mg/l	2610	1050	0.002	0.29
Acenaphthene	47	19	38	<38
Anthracene	47	19	38	<38
Bis(2-ethylhexyl) phthalate	258	95	50	<50
Di-n-butyl phthalate	43	20	50	<50
Diethyl phthalate	113	46	38	<38
Dimethyl phthalate	47	19	320	12000
Fluoranthene	54	22	44	<44
Fluorene	47	19	38	<38
Naphthalene	47	19	32	<32
Phenanthrene	47	19	110	<110
Pyrene	48	20	38	<38
phenol			30	<30

Chemical Name	Yield (%)	mp (°C)	lit. mp (°C)	Ref.
1,2-Dichloroethane	48	50	30	20
1,1-Dichloroethane	35	18	110	23
1,1,2-Dichloroethane	44	18	85	21
1,2-Dichloroethane	45	18	26	24
1,1-Dichloroethane	34	55	46	24
1,2-Dichloroethane	46	16	27.0	25, 26
1,1-Dichloroethane	42	40	29	27
1,2-Dichloroethane	43	20	101	28
1,1-Dichloroethane	38	02	24	29
1,2-Dichloroethane	35	19	28	30
1,1-Dichloroethane	41	18	22	31
1,2-Dichloroethane	39	18	22	32
1,1-Dichloroethane	60	18	1	33
1,2-Dichloroethane	50	45	1	34
1,1-Dichloroethane	51	36	180	35
1,2-Dichloroethane	21.9	105	18	36
1,1-Dichloroethane	57.1	06	35	37
1,2-Dichloroethane	61.05	57.1	16	38
1,1-Dichloroethane	32.9	115	13	39
1,2-Dichloroethane	1.94	1.9	15	40
1,1-Dichloroethane	5.04	100	26	41
1,2-Dichloroethane	1.64	100	30	42
1,1-Dichloroethane	38.0	145	18	43
1,2-Dichloroethane	5.04	100	21	44
1,1-Dichloroethane	50	52	1.8	45
1,2-Dichloroethane	1.94	1.9	1.3	46
1,1-Dichloroethane	1.50	0.5	1.4	47
1,2-Dichloroethane	3.1	3.1	1.3	48
1,1-Dichloroethane	1.53	3.0	1.0	49
1,2-Dichloroethane	3.0	3.5	2.2	50
1,1-Dichloroethane	3.5	5.0	8.0	51
1,2-Dichloroethane	8.4	05	1.1	52
1,1-Dichloroethane	1.50	1.5	4.0	53
1,2-Dichloroethane	3.2	1.0	1.5	54
1,1-Dichloroethane	3.0	1.0	1.5	55
1,2-Dichloroethane	1.0	1.0	1.5	56
1,1-Dichloroethane	1.0	1.0	1.5	57
1,2-Dichloroethane	1.0	1.0	1.5	58
1,1-Dichloroethane	1.0	1.0	1.5	59
1,2-Dichloroethane	1.0	1.0	1.5	60
1,1-Dichloroethane	1.0	1.0	1.5	61
1,2-Dichloroethane	1.0	1.0	1.5	62
1,1-Dichloroethane	1.0	1.0	1.5	63
1,2-Dichloroethane	1.0	1.0	1.5	64
1,1-Dichloroethane	1.0	1.0	1.5	65
1,2-Dichloroethane	1.0	1.0	1.5	66
1,1-Dichloroethane	1.0	1.0	1.5	67
1,2-Dichloroethane	1.0	1.0	1.5	68
1,1-Dichloroethane	1.0	1.0	1.5	69
1,2-Dichloroethane	1.0	1.0	1.5	70
1,1-Dichloroethane	1.0	1.0	1.5	71
1,2-Dichloroethane	1.0	1.0	1.5	72
1,1-Dichloroethane	1.0	1.0	1.5	73
1,2-Dichloroethane	1.0	1.0	1.5	74
1,1-Dichloroethane	1.0	1.0	1.5	75
1,2-Dichloroethane	1.0	1.0	1.5	76
1,1-Dichloroethane	1.0	1.0	1.5	77
1,2-Dichloroethane	1.0	1.0	1.5	78
1,1-Dichloroethane	1.0	1.0	1.5	79
1,2-Dichloroethane	1.0	1.0	1.5	80
1,1-Dichloroethane	1.0	1.0	1.5	81
1,2-Dichloroethane	1.0	1.0	1.5	82
1,1-Dichloroethane	1.0	1.0	1.5	83
1,2-Dichloroethane	1.0	1.0	1.5	84
1,1-Dichloroethane	1.0	1.0	1.5	85
1,2-Dichloroethane	1.0	1.0	1.5	86
1,1-Dichloroethane	1.0	1.0	1.5	87
1,2-Dichloroethane	1.0	1.0	1.5	88
1,1-Dichloroethane	1.0	1.0	1.5	89
1,2-Dichloroethane	1.0	1.0	1.5	90
1,1-Dichloroethane	1.0	1.0	1.5	91
1,2-Dichloroethane	1.0	1.0	1.5	92
1,1-Dichloroethane	1.0	1.0	1.5	93
1,2-Dichloroethane	1.0	1.0	1.5	94
1,1-Dichloroethane	1.0	1.0	1.5	95
1,2-Dichloroethane	1.0	1.0	1.5	96
1,1-Dichloroethane	1.0	1.0	1.5	97
1,2-Dichloroethane	1.0	1.0	1.5	98
1,1-Dichloroethane	1.0	1.0	1.5	99
1,2-Dichloroethane	1.0	1.0	1.5	100

1,2-Dichloroethane  
1,1-Dichloroethane  
1,1,2-Dichloroethane



o-xylene					
all values reported in $\mu\text{g/Liter}$					

# Rineco Analytical Services

819 Vulcan Road - Haskell  
Benton, Arkansas 72015  
(800) 377-4692 / (501) 778-9089  
FAX (501) 776-5816

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## Analysis Summary

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### Norac Co., Inc.

334 Phillips 311 Rd  
Helena, AR 72342-9033  
870-572-9061  
870-572-1416 (FAX)

**Client's Project ID:** Pond 2 Samples

**Project:** 70121

**Sampling Date:** 01/22/07

**Date Received:** 01/23/07

**Contact Name:** Jeff Wages

**Report Date:** 02/02/07

**Comments:** ND = not detected

Standard practice for quality control includes the use of blanks, laboratory control samples, matrix spikes and duplicates on at least 10% of samples analyzed. Standard practice for quality assurance includes compliance to USEPA guidelines for instrument maintenance and calibration.

Quality Manager or  
Laboratory Director



Date 2/02/07



## Results Summary

Project #:	70121	Parameter	Result	Quantitation Limit	Units	Method	Analyst	Analysis Date
RAS laboratory ID:	30							
Client ID:	Pond 2							
		VOC						
		1,1,1-Trichloroethane	ND	3.8	ug/l	EPA 624	AI	01/25/07 1531
		1,1,2,2-Tetrachloroethane	ND	6.9	ug/l	EPA 624	AI	01/25/07 1531
		1,1,2-Trichloroethane	ND	5	ug/l	EPA 624	AI	01/25/07 1531
		1,1-Dichloroethane	ND	4.7	ug/l	EPA 624	AI	01/25/07 1531
		1,1-Dichloroethylene	ND	2.8	ug/l	EPA 624	AI	01/25/07 1531
		1,2-Dichlorobenzene	ND	5	ug/l	EPA 624	AI	01/25/07 1531
		1,2-Dichloroethane	ND	2.8	ug/l	EPA 624	AI	01/25/07 1531
		1,2-Dichloropropane	ND	6	ug/l	EPA 624	AI	01/25/07 1531
		1,3-Dichlorobenzene	ND	5	ug/l	EPA 624	AI	01/25/07 1531
		1,4-Dichlorobenzene	ND	5	ug/l	EPA 624	AI	01/25/07 1531
		2-Chloroethylvinyl ether	ND	5.1	ug/l	EPA 624	AI	01/25/07 1531
		Acrolein	ND	50	ug/l	EPA 624	AI	01/25/07 1531
		Acrylonitrile	ND	50	ug/l	EPA 624	AI	01/25/07 1531
		Benzene	8.4	4.4	ug/l	EPA 624	AI	01/25/07 1531
		Dichlorobromomethane	ND	2.2	ug/l	EPA 624	AI	01/25/07 1531
		Bromofluorobenzene (surr.)	100		%	EPA 624	AI	01/25/07 1531
		Bromoform	ND	4.7	ug/l	EPA 624	AI	01/25/07 1531
		Carbon tetrachloride	ND	2.8	ug/l	EPA 624	AI	01/25/07 1531
		Chlorobenzene	ND	6	ug/l	EPA 624	AI	01/25/07 1531
		Chloroethane	ND	8.7	ug/l	EPA 624	AI	01/25/07 1531
		Chloroform	1.6	1.6	ug/l	EPA 624	AI	01/25/07 1531
		cis-1,3-Dichloropropylene	ND	5	ug/l	EPA 624	AI	01/25/07 1531
		Chlorodibromomethane	ND	3.1	ug/l	EPA 624	AI	01/25/07 1531
		Dibromofluoromethane (surr.)	103		%	EPA 624	AI	01/25/07 1531
		Ethylbenzene	ND	7.2	ug/l	EPA 624	AI	01/25/07 1531
		Methyl bromide(Bromomethane)	ND	8.9	ug/l	EPA 624	AI	01/25/07 1531
		Methyl chloride(Chloromethane)	ND	7.8	ug/l	EPA 624	AI	01/25/07 1531
		Methylene chloride	ND	10	ug/l	EPA 624	AI	01/25/07 1531
		Tetrachloroethylene	ND	4.1	ug/l	EPA 624	AI	01/25/07 1531
		Toluene	ND	6	ug/l	EPA 624	AI	01/25/07 1531
		Toluene-D8 (surr.)	100		%	EPA 624	AI	01/25/07 1531
		trans-1,2-Dichloroethylene	ND	1.6	ug/l	EPA 624	AI	01/25/07 1531
		trans-1,3-Dichloropropylene	ND	1.3	ug/l	EPA 624	AI	01/25/07 1531
		Trichloroethylene	ND	1.9	ug/l	EPA 624	AI	01/25/07 1531
		Vinyl chloride	ND	6.4	ug/l	EPA 624	AI	01/25/07 1531
RAS laboratory ID:	31							
Client ID:	Pond 2							
		BOD 5-day	560	2	mg/l	SM 5210 B	AI	01/24/07 0831
		Total Suspended Solids	88	4	mg/l	SM 2540D	AI	01/24/07 0927
		pH	7.9	-	Units	SM 4500-H+ B	AI	01/23/07 1851
RAS laboratory ID:	32							
Client ID:	Pond 2							
		Oil and Grease	ND	5	mg/l	EPA 1664A	AI	01/25/07 0939
RAS laboratory ID:	33							
Client ID:	Pond 2							
		Zinc	0.29	0.002	mg/l	EPA 200.7	AI	01/23/07 1413
RAS laboratory ID:	34							
Client ID:	Pond 2							
		Total Phosphorus	ND	0.02	mg/l	SM 4500-PBE	AI	01/25/07 1505
		Total Kjeldahl Nitrogen	12	1	mg/l	EPA 351.3	AI	01/25/07 0858
		COD	960	10	mg/l	HACH 8000	AI	01/23/07 1658

## Results Summary

Project #:	70121	Parameter	Result	Quantitation Limit	Units	Method	Analyst	Analysis Date
RAS laboratory ID:	35							
Client ID:	Pond 2							
		SVOC						
		1,2,4-Trichlorobenzene	ND	38	ug/l	EPA 625	AI	01/26/07 1010
		1,2-Dichlorobenzene	ND	38	ug/l	EPA 625	AI	01/26/07 1010
		1,2-Diphenylhydrazine	ND	220	ug/l	EPA 625	AI	01/26/07 1010
		1,3-Dichlorobenzene	ND	38	ug/l	EPA 625	AI	01/26/07 1010
		1,4-Dichlorobenzene	ND	88	ug/l	EPA 625	AI	01/26/07 1010
		2,4,6-Tribromophenol (surr.)	diluted out			EPA 625	AI	01/26/07 1010
		2,4,6-Trichlorophenol	ND	54	ug/l	EPA 625	AI	01/26/07 1010
		2,4-Dichlorophenol	ND	54	ug/l	EPA 625	AI	01/26/07 1010
		2,4-Dimethylphenol	ND	54	ug/l	EPA 625	AI	01/26/07 1010
		2,4-Dinitrophenol	ND	840	ug/l	EPA 625	AI	01/26/07 1010
		2,4-Dinitrotoluene	ND	120	ug/l	EPA 625	AI	01/26/07 1010
		2,6-Dinitrotoluene	ND	38	ug/l	EPA 625	AI	01/26/07 1010
		2-Chloronaphthalene	ND	38	ug/l	EPA 625	AI	01/26/07 1010
		2-Chlorophenol	ND	66	ug/l	EPA 625	AI	01/26/07 1010
		2-Fluorobiphenyl (surr.)	diluted out			EPA 625	AI	01/26/07 1010
		2-Fluorophenol (surr.)	diluted out			EPA 625	AI	01/26/07 1010
		2-Nitrophenol	ND	72	ug/l	EPA 625	AI	01/26/07 1010
		3,3'-Dichlorobenzidine	ND	330	ug/l	EPA 625	AI	01/26/07 1010
		4,6-Dinitro-o-cresol	ND	480	ug/l	EPA 625	AI	01/26/07 1010
		4-Bromophenyl phenyl ether	ND	38	ug/l	EPA 625	AI	01/26/07 1010
		p-Chloro-m-cresol	ND	60	ug/l	EPA 625	AI	01/26/07 1010
		4-Chlorophenyl phenyl ether	ND	84	ug/l	EPA 625	AI	01/26/07 1010
		4-Nitrophenol	ND	48	ug/l	EPA 625	AI	01/26/07 1010
		Acenaphthene	ND	38	ug/l	EPA 625	AI	01/26/07 1010
		Acenaphthylene	ND	70	ug/l	EPA 625	AI	01/26/07 1010
		Anthracene	ND	38	ug/l	EPA 625	AI	01/26/07 1010
		Benzidine	ND	880	ug/l	EPA 625	AI	01/26/07 1010
		Benzo(a)anthracene	ND	160	ug/l	EPA 625	AI	01/26/07 1010
		Benzo(a)pyrene	ND	50	ug/l	EPA 625	AI	01/26/07 1010
		3,4-Benzofluoranthene	ND	96	ug/l	EPA 625	AI	01/26/07 1010
		Benzo(g,h,i)perylene	ND	82	ug/l	EPA 625	AI	01/26/07 1010
		Benzo(k)fluoranthene	ND	50	ug/l	EPA 625	AI	01/26/07 1010
		Bis(2-chloroethoxy)methane	ND	110	ug/l	EPA 625	AI	01/26/07 1010
		Bis(2-chloroethyl)ether	ND	120	ug/l	EPA 625	AI	01/26/07 1010
		Bis(2-chloroisopropyl)ether	ND	120	ug/l	EPA 625	AI	01/26/07 1010
		Bis(2-ethylhexyl)phthalate	ND	50	ug/l	EPA 625	AI	01/26/07 1010
		Butylbenzyl phthalate	ND	50	ug/l	EPA 625	AI	01/26/07 1010
		Chrysene	ND	50	ug/l	EPA 625	AI	01/26/07 1010
		Di-n-butyl phthalate	ND	50	ug/l	EPA 625	AI	01/26/07 1010
		Di-n-octyl phthalate	ND	50	ug/l	EPA 625	AI	01/26/07 1010
		Dibenzo(a,h)anthracene	ND	50	ug/l	EPA 625	AI	01/26/07 1010
		Diethyl phthalate	ND	38	ug/l	EPA 625	AI	01/26/07 1010
		Fluoranthene	ND	44	ug/l	EPA 625	AI	01/26/07 1010
		Fluorene	ND	38	ug/l	EPA 625	AI	01/26/07 1010
		Hexachlorobenzene	ND	38	ug/l	EPA 625	AI	01/26/07 1010
		Hexachlorobutadiene	ND	18	ug/l	EPA 625	AI	01/26/07 1010
		Hexachlorocyclopentadiene	ND	100	ug/l	EPA 625	AI	01/26/07 1010
		Hexachloroethane	ND	32	ug/l	EPA 625	AI	01/26/07 1010
		Indeno(1,2,3-cd)pyrene	ND	74	ug/l	EPA 625	AI	01/26/07 1010
		Isophorone	ND	44	ug/l	EPA 625	AI	01/26/07 1010
		n-Nitrosodi-n-propylamine	ND	17	ug/l	EPA 625	AI	01/26/07 1010
		n-Nitrosodimethylamine	ND	20	ug/l	EPA 625	AI	01/26/07 1010
		n-Nitrosodiphenylamine	ND	38	ug/l	EPA 625	AI	01/26/07 1010
		Naphthalene	ND	32	ug/l	EPA 625	AI	01/26/07 1010
		Nitrobenzene	ND	38	ug/l	EPA 625	AI	01/26/07 1010
		Nitrobenzene-D5 (surr.)	diluted out			EPA 625	AI	01/26/07 1010
		Pentachlorophenol	ND	72	ug/l	EPA 625	AI	01/26/07 1010
		Phenanthrene	ND	110	ug/l	EPA 625	AI	01/26/07 1010
		Phenol	ND	30	ug/l	EPA 625	AI	01/26/07 1010
		Phenol-D5 (surr.)	diluted out			EPA 625	AI	01/26/07 1010
		Pyrene	ND	38	ug/l	EPA 625	AI	01/26/07 1010
		Terphenyl-D14 (surr.)	diluted out			EPA 625	AI	01/26/07 1010
		Dimethyl phthalate	12000	320	ug/l	EPA 625	AI	01/26/07 1010



**Quality Control Summary**  
(Part C)

Parameter	Result	Det. Limit	Units	Method	Analysis Date	Sample Type	Project : 70121	
							Result Type	Batch Number
Oil and Grease	ND	5	mg/l	EPA 1664A	01/25/07 0940	B	REG	B4398
1,2,4-Trichlorobenzene	ND	1.9	ug/l	EPA 625	01/26/07 1011	B	REG	B4399
1,2-Dichlorobenzene	ND	1.9	ug/l	EPA 625	01/26/07 1011	B	REG	B4399
1,2-Diphenylhydrazine	ND	11	ug/l	EPA 625	01/26/07 1011	B	REG	B4399
1,3-Dichlorobenzene	ND	1.9	ug/l	EPA 625	01/26/07 1011	B	REG	B4399
1,4-Dichlorobenzene	ND	4.4	ug/l	EPA 625	01/26/07 1011	B	REG	B4399
2,4,6-Tribromophenol (surr.)	95		%	EPA 625	01/26/07 1011	B	SURR	B4399
2,4,6-Trichlorophenol	ND	2.7	ug/l	EPA 625	01/26/07 1011	B	REG	B4399
2,4-Dichlorophenol	ND	2.7	ug/l	EPA 625	01/26/07 1011	B	REG	B4399
2,4-Dimethylphenol	ND	2.7	ug/l	EPA 625	01/26/07 1011	B	REG	B4399
2,4-Dinitrophenol	ND	42	ug/l	EPA 625	01/26/07 1011	B	REG	B4399
2,4-Dinitrotoluene	ND	5.7	ug/l	EPA 625	01/26/07 1011	B	REG	B4399
2,6-Dinitrotoluene	ND	1.9	ug/l	EPA 625	01/26/07 1011	B	REG	B4399
2-Chloronaphthalene	ND	1.9	ug/l	EPA 625	01/26/07 1011	B	REG	B4399
2-Chlorophenol	ND	3.3	ug/l	EPA 625	01/26/07 1011	B	REG	B4399
2-Fluorobiphenyl (surr.)	83		%	EPA 625	01/26/07 1011	B	SURR	B4399
2-Fluorophenol (surr.)	68		%	EPA 625	01/26/07 1011	B	SURR	B4399
2-Nitrophenol	ND	3.6	ug/l	EPA 625	01/26/07 1011	B	REG	B4399
3,3'-Dichlorobenzidine	ND	16.5	ug/l	EPA 625	01/26/07 1011	B	REG	B4399
4,6-Dinitro-o-cresol	ND	24	ug/l	EPA 625	01/26/07 1011	B	REG	B4399
4-Bromophenyl phenyl ether	ND	1.9	ug/l	EPA 625	01/26/07 1011	B	REG	B4399
p-Chloro-m-cresol	ND	3	ug/l	EPA 625	01/26/07 1011	B	REG	B4399
4-Chlorophenyl phenyl ether	ND	4.2	ug/l	EPA 625	01/26/07 1011	B	REG	B4399
4-Nitrophenol	ND	2.4	ug/l	EPA 625	01/26/07 1011	B	REG	B4399
Acenaphthene	ND	1.9	ug/l	EPA 625	01/26/07 1011	B	REG	B4399
Acenaphthylene	ND	3.5	ug/l	EPA 625	01/26/07 1011	B	REG	B4399
Anthracene	ND	1.9	ug/l	EPA 625	01/26/07 1011	B	REG	B4399
Benzidine	ND	44	ug/l	EPA 625	01/26/07 1011	B	REG	B4399
Benzo(a)anthracene	ND	7.8	ug/l	EPA 625	01/26/07 1011	B	REG	B4399
Benzo(a)pyrene	ND	2.5	ug/l	EPA 625	01/26/07 1011	B	REG	B4399
3,4-Benzofluoranthene	ND	4.8	ug/l	EPA 625	01/26/07 1011	B	REG	B4399
Benzo(g,h,i)perylene	ND	4.1	ug/l	EPA 625	01/26/07 1011	B	REG	B4399
Benzo(k)fluoranthene	ND	2.5	ug/l	EPA 625	01/26/07 1011	B	REG	B4399
Bis(2-chloroethoxy)methane	ND	5.3	ug/l	EPA 625	01/26/07 1011	B	REG	B4399
Bis(2-chloroethyl)ether	ND	5.7	ug/l	EPA 625	01/26/07 1011	B	REG	B4399
Bis(2-chloroisopropyl)ether	ND	5.7	ug/l	EPA 625	01/26/07 1011	B	REG	B4399
Bis(2-ethylhexyl)phthalate	ND	2.5	ug/l	EPA 625	01/26/07 1011	B	REG	B4399
Butylbenzyl phthalate	ND	2.5	ug/l	EPA 625	01/26/07 1011	B	REG	B4399
Chrysene	ND	2.5	ug/l	EPA 625	01/26/07 1011	B	REG	B4399
Di-n-butyl phthalate	ND	2.5	ug/l	EPA 625	01/26/07 1011	B	REG	B4399
Di-n-octyl phthalate	ND	2.5	ug/l	EPA 625	01/26/07 1011	B	REG	B4399
Dibenzo(a,h)anthracene	ND	2.5	ug/l	EPA 625	01/26/07 1011	B	REG	B4399
Diethyl phthalate	ND	1.9	ug/l	EPA 625	01/26/07 1011	B	REG	B4399
Dimethyl phthalate	ND	1.6	ug/l	EPA 625	01/26/07 1011	B	REG	B4399
Fluoranthene	ND	2.2	ug/l	EPA 625	01/26/07 1011	B	REG	B4399
Fluorene	ND	1.9	ug/l	EPA 625	01/26/07 1011	B	REG	B4399
Hexachlorobenzene	ND	1.9	ug/l	EPA 625	01/26/07 1011	B	REG	B4399
Hexachlorobutadiene	ND	0.9	ug/l	EPA 625	01/26/07 1011	B	REG	B4399
Hexachlorocyclopentadiene	ND	0.78	ug/l	EPA 625	01/26/07 1011	B	REG	B4399
Hexachloroethane	ND	1.6	ug/l	EPA 625	01/26/07 1011	B	REG	B4399
Indeno(1,2,3-cd)pyrene	ND	3.7	ug/l	EPA 625	01/26/07 1011	B	REG	B4399
Isophorone	ND	2.2	ug/l	EPA 625	01/26/07 1011	B	REG	B4399
n-Nitrosodi-n-propylamine	ND	0.84	ug/l	EPA 625	01/26/07 1011	B	REG	B4399
n-Nitrosodimethylamine	ND	0.96	ug/l	EPA 625	01/26/07 1011	B	REG	B4399
n-Nitrosodiphenylamine	ND	1.9	ug/l	EPA 625	01/26/07 1011	B	REG	B4399
Naphthalene	ND	1.6	ug/l	EPA 625	01/26/07 1011	B	REG	B4399
Nitrobenzene	ND	1.9	ug/l	EPA 625	01/26/07 1011	B	REG	B4399
Nitrobenzene-D5 (surr.)	91		%	EPA 625	01/26/07 1011	B	SURR	B4399
Pentachlorophenol	ND	3.6	ug/l	EPA 625	01/26/07 1011	B	REG	B4399
Phenanthrene	ND	5.4	ug/l	EPA 625	01/26/07 1011	B	REG	B4399
Phenol	ND	1.5	ug/l	EPA 625	01/26/07 1011	B	REG	B4399
Phenol-D5 (surr.)	52		%	EPA 625	01/26/07 1011	B	SURR	B4399
Pyrene	ND	1.9	ug/l	EPA 625	01/26/07 1011	B	REG	B4399
Terphenyl-D14 (surr.)	98		%	EPA 625	01/26/07 1011	B	SURR	B4399
Zinc	ND	0.002	mg/l	EPA 200.7	01/23/07 1413	B	REG	S19684
COD	ND	10	mg/l	HACH 8000	01/23/07 1659	B	REG	W19563
BOD 5-day	ND	2	mg/l	SM 5210 B	01/24/07 0832	B	REG	W19566
Total Suspended Solids	ND	4	mg/l	SM 2540D	01/24/07 0932	B	REG	W19569
Total Kjeldahl Nitrogen	ND	1	mg/l	EPA 351.3	01/25/07 0859	B	REG	W19582
Total Phosphorus	ND	0.02	mg/l	SM 4500-PBE	01/25/07 1505	B	REG	W19591
pH	7.8		Units	SM 4500-H+ B	01/23/07 1851	D	REG	W19564
pH	<1		%	SM 4500-H+ B	01/23/07 1851	D	RPD	W19564
1,1,1-Trichloroethane	ND	3.8	ug/l	EPA 624	01/25/07 1131	B	REG	V6073
1,1,2,2-Tetrachloroethane	ND	6.9	ug/l	EPA 624	01/25/07 1131	B	REG	V6073
1,1,2-Trichloroethane	ND	5	ug/l	EPA 624	01/25/07 1131	B	REG	V6073
1,1-Dichloroethane	ND	4.7	ug/l	EPA 624	01/25/07 1131	B	REG	V6073
1,1-Dichloroethylene	ND	2.8	ug/l	EPA 624	01/25/07 1131	B	REG	V6073
1,2-Dichlorobenzene	ND	5	ug/l	EPA 624	01/25/07 1131	B	REG	V6073
1,2-Dichloroethane	ND	2.8	ug/l	EPA 624	01/25/07 1131	B	REG	V6073

**NOTES:**

Q - lab control QD - lab control dup S - spike SD - spike dup B - blank D - duplicate SURR - surrogate



**Quality Control Summary**  
(Part C)

Parameter	Result	Det. Limit	Units	Method	Analysis Date	Sample Type	Result Type	Batch Number
1,2-Dichloropropane	ND	6	ug/l	EPA 624	01/25/07 1131	B	REG	V6073
1,3-Dichlorobenzene	ND	5	ug/l	EPA 624	01/25/07 1131	B	REG	V6073
1,4-Dichlorobenzene	ND	5	ug/l	EPA 624	01/25/07 1131	B	REG	V6073
2-Chloroethylvinyl ether	ND	5.1	ug/l	EPA 624	01/25/07 1131	B	REG	V6073
Acrolein	ND	50	ug/l	EPA 624	01/25/07 1131	B	REG	V6073
Acrylonitrile	ND	50	ug/l	EPA 624	01/25/07 1131	B	REG	V6073
Benzene	ND	4.4	ug/l	EPA 624	01/25/07 1131	B	REG	V6073
Dichlorobromomethane	ND	2.2	ug/l	EPA 624	01/25/07 1131	B	REG	V6073
Bromofluorobenzene (surr.)	99		%	EPA 624	01/25/07 1131	B	SURR	V6073
Bromoform	ND	4.7	ug/l	EPA 624	01/25/07 1131	B	REG	V6073
Carbon tetrachloride	ND	2.8	ug/l	EPA 624	01/25/07 1131	B	REG	V6073
Chlorobenzene	ND	6	ug/l	EPA 624	01/25/07 1131	B	REG	V6073
Chloroethane	ND	8.7	ug/l	EPA 624	01/25/07 1131	B	REG	V6073
Chloroform	ND	1.6	ug/l	EPA 624	01/25/07 1131	B	REG	V6073
cis-1,3-Dichloropropylene	ND	5	ug/l	EPA 624	01/25/07 1131	B	REG	V6073
Chlorodibromomethane	ND	3.1	ug/l	EPA 624	01/25/07 1131	B	REG	V6073
Dibromofluoromethane (surr.)	97		%	EPA 624	01/25/07 1131	B	SURR	V6073
Ethylbenzene	ND	7.2	ug/l	EPA 624	01/25/07 1131	B	REG	V6073
Methyl bromide(Bromomethane)	ND	8.9	ug/l	EPA 624	01/25/07 1131	B	REG	V6073
Methyl chloride(Chloromethane)	ND	7.8	ug/l	EPA 624	01/25/07 1131	B	REG	V6073
Methylene chloride	ND	10	ug/l	EPA 624	01/25/07 1131	B	REG	V6073
Tetrachloroethylene	ND	4.1	ug/l	EPA 624	01/25/07 1131	B	REG	V6073
Toluene	ND	6	ug/l	EPA 624	01/25/07 1131	B	REG	V6073
Toluene-D8 (surr.)	100		%	EPA 624	01/25/07 1131	B	SURR	V6073
trans-1,2-Dichloroethylene	ND	1.6	ug/l	EPA 624	01/25/07 1131	B	REG	V6073
trans-1,3-Dichloropropylene	ND	1.3	ug/l	EPA 624	01/25/07 1131	B	REG	V6073
Trichloroethylene	ND	1.9	ug/l	EPA 624	01/25/07 1131	B	REG	V6073
Vinyl chloride	ND	6.4	ug/l	EPA 624	01/25/07 1131	B	REG	V6073
Oil and Grease	91		%	EPA 1664A	01/25/07 0940	Q	REC	B4398
Oil and Grease	85		%	EPA 1664A	01/25/07 0940	Q	REC	B4398
Oil and Grease	7		%	EPA 1664A	01/25/07 0940	Q	RPD	B4398
Oil and Grease	79		%	EPA 1664A	01/25/07 0940	S	REC	B4398
1,2,4-Trichlorobenzene	72		%	EPA 625	01/26/07 1011	Q	REC	B4399
1,2-Dichlorobenzene	71		%	EPA 625	01/26/07 1011	Q	REC	B4399
1,2-Diphenylhydrazine	87		%	EPA 625	01/26/07 1011	Q	REC	B4399
1,3-Dichlorobenzene	69		%	EPA 625	01/26/07 1011	Q	REC	B4399
1,4-Dichlorobenzene	72		%	EPA 625	01/26/07 1011	Q	REC	B4399
2,4,6-Tribromophenol (surr.)	98		%	EPA 625	01/26/07 1011	Q	SURR	B4399
2,4,6-Trichlorophenol	89		%	EPA 625	01/26/07 1011	Q	REC	B4399
2,4-Dichlorophenol	88		%	EPA 625	01/26/07 1011	Q	REC	B4399
2,4-Dimethylphenol	77		%	EPA 625	01/26/07 1011	Q	REC	B4399
2,4-Dinitrophenol	62		%	EPA 625	01/26/07 1011	Q	REC	B4399
2,4-Dinitrotoluene	89		%	EPA 625	01/26/07 1011	Q	REC	B4399
2,6-Dinitrotoluene	89		%	EPA 625	01/26/07 1011	Q	REC	B4399
2-Chloronaphthalene	78		%	EPA 625	01/26/07 1011	Q	REC	B4399
2-Chlorophenol	84		%	EPA 625	01/26/07 1011	Q	REC	B4399
2-Fluorobiphenyl (surr.)	80		%	EPA 625	01/26/07 1011	Q	SURR	B4399
2-Fluorophenol (surr.)	70		%	EPA 625	01/26/07 1011	Q	SURR	B4399
2-Nitrophenol	86		%	EPA 625	01/26/07 1011	Q	REC	B4399
4,6-Dinitro-o-cresol	87		%	EPA 625	01/26/07 1011	Q	REC	B4399
4-Bromophenyl phenyl ether	91		%	EPA 625	01/26/07 1011	Q	REC	B4399
p-Chloro-m-cresol	90		%	EPA 625	01/26/07 1011	Q	REC	B4399
4-Chlorophenyl phenyl ether	87		%	EPA 625	01/26/07 1011	Q	REC	B4399
4-Nitrophenol	62		%	EPA 625	01/26/07 1011	Q	REC	B4399
Acenaphthene	81		%	EPA 625	01/26/07 1011	Q	REC	B4399
Acenaphthylene	82		%	EPA 625	01/26/07 1011	Q	REC	B4399
Anthracene	84		%	EPA 625	01/26/07 1011	Q	REC	B4399
Benzo(a)anthracene	89		%	EPA 625	01/26/07 1011	Q	REC	B4399
Benzo(a)pyrene	87		%	EPA 625	01/26/07 1011	Q	REC	B4399
3,4-Benzofluoranthene	85		%	EPA 625	01/26/07 1011	Q	REC	B4399
Benzo(g,h,i)perylene	95		%	EPA 625	01/26/07 1011	Q	REC	B4399
Benzo(k)fluoranthene	86		%	EPA 625	01/26/07 1011	Q	REC	B4399
Bis(2-chloroethoxy)methane	85		%	EPA 625	01/26/07 1011	Q	REC	B4399
Bis(2-chloroethyl)ether	87		%	EPA 625	01/26/07 1011	Q	REC	B4399
Bis(2-chloroisopropyl)ether	86		%	EPA 625	01/26/07 1011	Q	REC	B4399
Bis(2-ethylhexyl)phthalate	98		%	EPA 625	01/26/07 1011	Q	REC	B4399
Butylbenzyl phthalate	89		%	EPA 625	01/26/07 1011	Q	REC	B4399
Chrysene	86		%	EPA 625	01/26/07 1011	Q	REC	B4399
Di-n-butyl phthalate	98		%	EPA 625	01/26/07 1011	Q	REC	B4399
Di-n-octyl phthalate	90		%	EPA 625	01/26/07 1011	Q	REC	B4399
Dibenzo(a,h)anthracene	97		%	EPA 625	01/26/07 1011	Q	REC	B4399
Diethyl phthalate	90		%	EPA 625	01/26/07 1011	Q	REC	B4399
Dimethyl phthalate	87		%	EPA 625	01/26/07 1011	Q	REC	B4399
Fluoranthene	87		%	EPA 625	01/26/07 1011	Q	REC	B4399
Fluorene	84		%	EPA 625	01/26/07 1011	Q	REC	B4399
Hexachlorobenzene	84		%	EPA 625	01/26/07 1011	Q	REC	B4399
Hexachlorobutadiene	57		%	EPA 625	01/26/07 1011	Q	REC	B4399
Hexachlorocyclopentadiene	61		%	EPA 625	01/26/07 1011	Q	REC	B4399
Hexachloroethane	65		%	EPA 625	01/26/07 1011	Q	REC	B4399
Indeno(1,2,3-cd)pyrene	102		%	EPA 625	01/26/07 1011	Q	REC	B4399

**NOTES:**

Q - lab control QD - lab control dup S - spike SD - spike dup B - blank D - duplicate SURR - surrogate



**Quality Control Summary**  
(Part C)

Parameter	Result	Det. Limit	Units	Method	Analysis Date	Sample Type	Result Type	Batch Number
Isophorone	79		%	EPA 625	01/26/07 1011	Q	REC	B4399
n-Nitrosodi-n-propylamine	91		%	EPA 625	01/26/07 1011	Q	REC	B4399
n-Nitrosodimethylamine	70		%	EPA 625	01/26/07 1011	Q	REC	B4399
n-Nitrosodiphenylamine	85		%	EPA 625	01/26/07 1011	Q	REC	B4399
Naphthalene	79		%	EPA 625	01/26/07 1011	Q	REC	B4399
Nitrobenzene	83		%	EPA 625	01/26/07 1011	Q	REC	B4399
Nitrobenzene-D5 (surr.)	91		%	EPA 625	01/26/07 1011	Q	SURR	B4399
Pentachlorophenol	73		%	EPA 625	01/26/07 1011	Q	REC	B4399
Phenanthrene	84		%	EPA 625	01/26/07 1011	Q	REC	B4399
Phenol	49		%	EPA 625	01/26/07 1011	Q	REC	B4399
Phenol-D5 (surr.)	54		%	EPA 625	01/26/07 1011	Q	SURR	B4399
Pyrene	82		%	EPA 625	01/26/07 1011	Q	REC	B4399
Terphenyl-D14 (surr.)	90		%	EPA 625	01/26/07 1011	Q	SURR	B4399
1,2,4-Trichlorobenzene	67		%	EPA 625	01/26/07 1011	Q	REC	B4399
1,2,4-Trichlorobenzene	8		%	EPA 625	01/26/07 1011	Q	RPD	B4399
1,2-Dichlorobenzene	68		%	EPA 625	01/26/07 1011	Q	REC	B4399
1,2-Dichlorobenzene	4		%	EPA 625	01/26/07 1011	Q	RPD	B4399
1,2-Diphenylhydrazine	85		%	EPA 625	01/26/07 1011	Q	REC	B4399
1,2-Diphenylhydrazine	2		%	EPA 625	01/26/07 1011	Q	RPD	B4399
1,3-Dichlorobenzene	63		%	EPA 625	01/26/07 1011	Q	REC	B4399
1,3-Dichlorobenzene	9		%	EPA 625	01/26/07 1011	Q	RPD	B4399
1,4-Dichlorobenzene	66		%	EPA 625	01/26/07 1011	Q	REC	B4399
1,4-Dichlorobenzene	8		%	EPA 625	01/26/07 1011	Q	RPD	B4399
2,4,6-Tribromophenol (surr.)	95		%	EPA 625	01/26/07 1011	Q	SURR	B4399
2,4,6-Trichlorophenol	89		%	EPA 625	01/26/07 1011	Q	REC	B4399
2,4,6-Trichlorophenol	<1		%	EPA 625	01/26/07 1011	Q	RPD	B4399
2,4-Dichlorophenol	86		%	EPA 625	01/26/07 1011	Q	REC	B4399
2,4-Dichlorophenol	2		%	EPA 625	01/26/07 1011	Q	RPD	B4399
2,4-Dimethylphenol	72		%	EPA 625	01/26/07 1011	Q	REC	B4399
2,4-Dimethylphenol	7		%	EPA 625	01/26/07 1011	Q	RPD	B4399
2,4-Dinitrophenol	72		%	EPA 625	01/26/07 1011	Q	REC	B4399
2,4-Dinitrophenol	15		%	EPA 625	01/26/07 1011	Q	RPD	B4399
2,4-Dinitrotoluene	89		%	EPA 625	01/26/07 1011	Q	REC	B4399
2,4-Dinitrotoluene	<1		%	EPA 625	01/26/07 1011	Q	RPD	B4399
2,6-Dinitrotoluene	89		%	EPA 625	01/26/07 1011	Q	REC	B4399
2,6-Dinitrotoluene	<1		%	EPA 625	01/26/07 1011	Q	RPD	B4399
2-Chloronaphthalene	76		%	EPA 625	01/26/07 1011	Q	REC	B4399
2-Chloronaphthalene	3		%	EPA 625	01/26/07 1011	Q	RPD	B4399
2-Chlorophenol	83		%	EPA 625	01/26/07 1011	Q	REC	B4399
2-Chlorophenol	1		%	EPA 625	01/26/07 1011	Q	RPD	B4399
2-Fluorobiphenyl (surr.)	80		%	EPA 625	01/26/07 1011	Q	SURR	B4399
2-Fluorophenol (surr.)	69		%	EPA 625	01/26/07 1011	Q	SURR	B4399
2-Nitrophenol	86		%	EPA 625	01/26/07 1011	Q	REC	B4399
2-Nitrophenol	<1		%	EPA 625	01/26/07 1011	Q	RPD	B4399
4,6-Dinitro-o-cresol	88		%	EPA 625	01/26/07 1011	Q	REC	B4399
4,6-Dinitro-o-cresol	1		%	EPA 625	01/26/07 1011	Q	RPD	B4399
4-Bromophenyl phenyl ether	87		%	EPA 625	01/26/07 1011	Q	REC	B4399
4-Bromophenyl phenyl ether	4		%	EPA 625	01/26/07 1011	Q	RPD	B4399
p-Chloro-m-cresol	88		%	EPA 625	01/26/07 1011	Q	REC	B4399
p-Chloro-m-cresol	3		%	EPA 625	01/26/07 1011	Q	RPD	B4399
4-Chlorophenyl phenyl ether	87		%	EPA 625	01/26/07 1011	Q	REC	B4399
4-Chlorophenyl phenyl ether	<1		%	EPA 625	01/26/07 1011	Q	RPD	B4399
4-Nitrophenol	67		%	EPA 625	01/26/07 1011	Q	REC	B4399
4-Nitrophenol	8		%	EPA 625	01/26/07 1011	Q	RPD	B4399
Acenaphthene	79		%	EPA 625	01/26/07 1011	Q	REC	B4399
Acenaphthene	2		%	EPA 625	01/26/07 1011	Q	RPD	B4399
Acenaphthylene	81		%	EPA 625	01/26/07 1011	Q	REC	B4399
Acenaphthylene	2		%	EPA 625	01/26/07 1011	Q	RPD	B4399
Anthracene	82		%	EPA 625	01/26/07 1011	Q	REC	B4399
Anthracene	2		%	EPA 625	01/26/07 1011	Q	RPD	B4399
Benzo(a)anthracene	88		%	EPA 625	01/26/07 1011	Q	REC	B4399
Benzo(a)anthracene	1		%	EPA 625	01/26/07 1011	Q	RPD	B4399
Benzo(a)pyrene	84		%	EPA 625	01/26/07 1011	Q	REC	B4399
Benzo(a)pyrene	3		%	EPA 625	01/26/07 1011	Q	RPD	B4399
3,4-Benzofluoranthene	79		%	EPA 625	01/26/07 1011	Q	REC	B4399
3,4-Benzofluoranthene	7		%	EPA 625	01/26/07 1011	Q	RPD	B4399
Benzo(g,h,i)perylene	94		%	EPA 625	01/26/07 1011	Q	REC	B4399
Benzo(g,h,i)perylene	1		%	EPA 625	01/26/07 1011	Q	RPD	B4399
Benzo(k)fluoranthene	80		%	EPA 625	01/26/07 1011	Q	REC	B4399
Benzo(k)fluoranthene	7		%	EPA 625	01/26/07 1011	Q	RPD	B4399
Bis(2-chloroethoxy)methane	83		%	EPA 625	01/26/07 1011	Q	REC	B4399
Bis(2-chloroethoxy)methane	2		%	EPA 625	01/26/07 1011	Q	RPD	B4399
Bis(2-chloroethyl)ether	87		%	EPA 625	01/26/07 1011	Q	REC	B4399
Bis(2-chloroethyl)ether	<1		%	EPA 625	01/26/07 1011	Q	RPD	B4399
Bis(2-chloroisopropyl)ether	86		%	EPA 625	01/26/07 1011	Q	REC	B4399
Bis(2-chloroisopropyl)ether	1		%	EPA 625	01/26/07 1011	Q	RPD	B4399
Bis(2-ethylhexyl)phthalate	91		%	EPA 625	01/26/07 1011	Q	REC	B4399
Bis(2-ethylhexyl)phthalate	8		%	EPA 625	01/26/07 1011	Q	RPD	B4399
Butylbenzyl phthalate	86		%	EPA 625	01/26/07 1011	Q	REC	B4399
Butylbenzyl phthalate	3		%	EPA 625	01/26/07 1011	Q	RPD	B4399

**NOTES:**

Q - lab control QD - lab control dup S - spike SD - spike dup B - blank D - duplicate SURR - surrogate



**Quality Control Summary**  
(Part C)

Parameter	Result	Det. Limit	Units	Method	Analysis Date	Sample Type	Result Type	Batch Number
Chrysene	84		%	EPA 625	01/26/07 1011	Q	REC	B4399
Chrysene	2		%	EPA 625	01/26/07 1011	Q	RPD	B4399
Di-n-butyl phthalate	94		%	EPA 625	01/26/07 1011	Q	REC	B4399
Di-n-butyl phthalate	4		%	EPA 625	01/26/07 1011	Q	RPD	B4399
Di-n-octyl phthalate	87		%	EPA 625	01/26/07 1011	Q	REC	B4399
Di-n-octyl phthalate	4		%	EPA 625	01/26/07 1011	Q	RPD	B4399
Dibenzo(a,h)anthracene	98		%	EPA 625	01/26/07 1011	Q	REC	B4399
Dibenzo(a,h)anthracene	1		%	EPA 625	01/26/07 1011	Q	RPD	B4399
Diethyl phthalate	88		%	EPA 625	01/26/07 1011	Q	REC	B4399
Diethyl phthalate	2		%	EPA 625	01/26/07 1011	Q	RPD	B4399
Dimethyl phthalate	86		%	EPA 625	01/26/07 1011	Q	REC	B4399
Dimethyl phthalate	1		%	EPA 625	01/26/07 1011	Q	RPD	B4399
Fluoranthene	85		%	EPA 625	01/26/07 1011	Q	REC	B4399
Fluoranthene	2		%	EPA 625	01/26/07 1011	Q	RPD	B4399
Fluorene	83		%	EPA 625	01/26/07 1011	Q	REC	B4399
Fluorene	2		%	EPA 625	01/26/07 1011	Q	RPD	B4399
Hexachlorobenzene	82		%	EPA 625	01/26/07 1011	Q	REC	B4399
Hexachlorobenzene	2		%	EPA 625	01/26/07 1011	Q	RPD	B4399
Hexachlorobutadiene	40		%	EPA 625	01/26/07 1011	Q	REC	B4399
Hexachlorobutadiene	35		%	EPA 625	01/26/07 1011	Q	RPD	B4399
Hexachlorocyclopentadiene	56		%	EPA 625	01/26/07 1011	Q	REC	B4399
Hexachlorocyclopentadiene	9		%	EPA 625	01/26/07 1011	Q	RPD	B4399
Hexachloroethane	52		%	EPA 625	01/26/07 1011	Q	REC	B4399
Hexachloroethane	22		%	EPA 625	01/26/07 1011	Q	RPD	B4399
Indeno(1,2,3-cd)pyrene	100		%	EPA 625	01/26/07 1011	Q	REC	B4399
Indeno(1,2,3-cd)pyrene	2		%	EPA 625	01/26/07 1011	Q	RPD	B4399
Isophorone	77		%	EPA 625	01/26/07 1011	Q	REC	B4399
Isophorone	2		%	EPA 625	01/26/07 1011	Q	RPD	B4399
n-Nitrosodi-n-propylamine	90		%	EPA 625	01/26/07 1011	Q	REC	B4399
n-Nitrosodi-n-propylamine	1		%	EPA 625	01/26/07 1011	Q	RPD	B4399
n-Nitrosodimethylamine	68		%	EPA 625	01/26/07 1011	Q	REC	B4399
n-Nitrosodimethylamine	3		%	EPA 625	01/26/07 1011	Q	RPD	B4399
n-Nitrosodiphenylamine	83		%	EPA 625	01/26/07 1011	Q	REC	B4399
n-Nitrosodiphenylamine	2		%	EPA 625	01/26/07 1011	Q	RPD	B4399
Naphthalene	77		%	EPA 625	01/26/07 1011	Q	REC	B4399
Naphthalene	3		%	EPA 625	01/26/07 1011	Q	RPD	B4399
Nitrobenzene	82		%	EPA 625	01/26/07 1011	Q	REC	B4399
Nitrobenzene	1		%	EPA 625	01/26/07 1011	Q	RPD	B4399
Nitrobenzene-D5 (surr.)	90		%	EPA 625	01/26/07 1011	Q	SURR	B4399
Pentachlorophenol	73		%	EPA 625	01/26/07 1011	Q	REC	B4399
Pentachlorophenol	1		%	EPA 625	01/26/07 1011	Q	RPD	B4399
Phenanthrene	82		%	EPA 625	01/26/07 1011	Q	REC	B4399
Phenanthrene	2		%	EPA 625	01/26/07 1011	Q	RPD	B4399
Phenol	50		%	EPA 625	01/26/07 1011	Q	REC	B4399
Phenol	2		%	EPA 625	01/26/07 1011	Q	RPD	B4399
Phenol-D5 (surr.)	54		%	EPA 625	01/26/07 1011	Q	SURR	B4399
Pyrene	79		%	EPA 625	01/26/07 1011	Q	REC	B4399
Pyrene	4		%	EPA 625	01/26/07 1011	Q	RPD	B4399
Terphenyl-D14 (surr.)	88		%	EPA 625	01/26/07 1011	Q	SURR	B4399
1,1,1-Trichloroethane	95		%	EPA 624	01/25/07 1055	Q	REC	V6073
1,1,2,2-Tetrachloroethane	94		%	EPA 624	01/25/07 1055	Q	REC	V6073
1,1,2-Trichloroethane	96		%	EPA 624	01/25/07 1055	Q	REC	V6073
1,1-Dichloroethane	96		%	EPA 624	01/25/07 1055	Q	REC	V6073
1,1-Dichloroethylene	95		%	EPA 624	01/25/07 1055	Q	REC	V6073
1,2-Dichloroethane	98		%	EPA 624	01/25/07 1055	Q	REC	V6073
1,2-Dichloropropane	92		%	EPA 624	01/25/07 1055	Q	REC	V6073
Acrylonitrile	106		%	EPA 624	01/25/07 1055	Q	REC	V6073
Benzene	99		%	EPA 624	01/25/07 1055	Q	REC	V6073
Dichlorobromomethane	90		%	EPA 624	01/25/07 1055	Q	REC	V6073
Bromofluorobenzene (surr.)	101		%	EPA 624	01/25/07 1055	Q	SURR	V6073
Bromoform	91		%	EPA 624	01/25/07 1055	Q	REC	V6073
Carbon tetrachloride	94		%	EPA 624	01/25/07 1055	Q	REC	V6073
Chlorobenzene	92		%	EPA 624	01/25/07 1055	Q	REC	V6073
Chloroethane	101		%	EPA 624	01/25/07 1055	Q	REC	V6073
Chloroform	92		%	EPA 624	01/25/07 1055	Q	REC	V6073
cis-1,3-Dichloropropylene	89		%	EPA 624	01/25/07 1055	Q	REC	V6073
Chlorodibromomethane	93		%	EPA 624	01/25/07 1055	Q	REC	V6073
Dibromofluoromethane (surr.)	99		%	EPA 624	01/25/07 1055	Q	SURR	V6073
Ethylbenzene	97		%	EPA 624	01/25/07 1055	Q	REC	V6073
Methyl bromide(Bromomethane)	126		%	EPA 624	01/25/07 1055	Q	REC	V6073
Methyl chloride(Chloromethane)	103		%	EPA 624	01/25/07 1055	Q	REC	V6073
Methylene chloride	94		%	EPA 624	01/25/07 1055	Q	REC	V6073
Tetrachloroethylene	91		%	EPA 624	01/25/07 1055	Q	REC	V6073
Toluene	93		%	EPA 624	01/25/07 1055	Q	REC	V6073
Toluene-D8 (surr.)	102		%	EPA 624	01/25/07 1055	Q	SURR	V6073
trans-1,2-Dichloroethylene	90		%	EPA 624	01/25/07 1055	Q	REC	V6073
trans-1,3-Dichloropropylene	88		%	EPA 624	01/25/07 1055	Q	REC	V6073
Trichloroethylene	92		%	EPA 624	01/25/07 1055	Q	REC	V6073
Vinyl chloride	120		%	EPA 624	01/25/07 1055	Q	REC	V6073
1,1,1-Trichloroethane	88		%	EPA 624	01/25/07 1317	S	REC	V6073

**NOTES:**

Q - lab control QD - lab control dup S - spike SD - spike dup B - blank D - duplicate SURR - surrogate



# Quality Control Summary

## (Part C)

Parameter	Result	Det. Limit	Units	Method	Analysis Date	Sample Type	Result Type	Batch Number
1,1,2,2-Tetrachloroethane	81		%	EPA 624	01/25/07 1317	S	REC	V6073
1,1,2-Trichloroethane	89		%	EPA 624	01/25/07 1317	S	REC	V6073
1,1-Dichloroethane	93		%	EPA 624	01/25/07 1317	S	REC	V6073
1,1-Dichloroethylene	88		%	EPA 624	01/25/07 1317	S	REC	V6073
1,2-Dichloroethane	92		%	EPA 624	01/25/07 1317	S	REC	V6073
1,2-Dichloropropane	86		%	EPA 624	01/25/07 1317	S	REC	V6073
Acrylonitrile	77		%	EPA 624	01/25/07 1317	S	REC	V6073
Benzene	92		%	EPA 624	01/25/07 1317	S	REC	V6073
Dichlorobromomethane	86		%	EPA 624	01/25/07 1317	S	REC	V6073
Bromofluorobenzene (surr.)	102		%	EPA 624	01/25/07 1317	S	SURR	V6073
Bromoform	82		%	EPA 624	01/25/07 1317	S	REC	V6073
Carbon tetrachloride	88		%	EPA 624	01/25/07 1317	S	REC	V6073
Chlorobenzene	86		%	EPA 624	01/25/07 1317	S	REC	V6073
Chloroethane	95		%	EPA 624	01/25/07 1317	S	REC	V6073
Chloroform	87		%	EPA 624	01/25/07 1317	S	REC	V6073
cis-1,3-Dichloropropylene	82		%	EPA 624	01/25/07 1317	S	REC	V6073
Chlorodibromomethane	86		%	EPA 624	01/25/07 1317	S	REC	V6073
Dibromofluoromethane (surr.)	98		%	EPA 624	01/25/07 1317	S	SURR	V6073
Ethylbenzene	89		%	EPA 624	01/25/07 1317	S	REC	V6073
Methyl bromide(Bromomethane)	103		%	EPA 624	01/25/07 1317	S	REC	V6073
Methyl chloride(Chloromethane)	93		%	EPA 624	01/25/07 1317	S	REC	V6073
Methylene chloride	94		%	EPA 624	01/25/07 1317	S	REC	V6073
Tetrachloroethylene	85		%	EPA 624	01/25/07 1317	S	REC	V6073
Toluene	88		%	EPA 624	01/25/07 1317	S	REC	V6073
Toluene-D8 (surr.)	101		%	EPA 624	01/25/07 1317	S	SURR	V6073
trans-1,2-Dichloroethylene	83		%	EPA 624	01/25/07 1317	S	REC	V6073
trans-1,3-Dichloropropylene	82		%	EPA 624	01/25/07 1317	S	REC	V6073
Trichloroethylene	86		%	EPA 624	01/25/07 1317	S	REC	V6073
Vinyl chloride	111		%	EPA 624	01/25/07 1317	S	REC	V6073
Zinc	98		%	EPA 200.7	01/23/07 1413	Q	REC	S19684
Zinc	99		%	EPA 200.7	01/23/07 1413	S	REC	S19684
Zinc	97		%	EPA 200.7	01/23/07 1413	SD	REC	S19684
Zinc	2		%	EPA 200.7	01/23/07 1413	SD	RPD	S19684
COD	98		%	HACH 8000	01/23/07 1659	Q	REC	W19563
COD	94		%	HACH 8000	01/23/07 1659	Q	REC	W19563
COD	5		%	HACH 8000	01/23/07 1659	Q	RPD	W19563
COD	89		%	HACH 8000	01/23/07 1659	S	REC	W19563
COD	89		%	HACH 8000	01/23/07 1659	SD	REC	W19563
COD	<1		%	HACH 8000	01/23/07 1659	SD	RPD	W19563
pH	100		%	SM 4500-H+ B	01/23/07 1851	Q	REC	W19564
BOD 5-day	108		%	SM 5210 B	01/24/07 0832	Q	REC	W19566
BOD 5-day	103		%	SM 5210 B	01/24/07 0832	Q	REC	W19566
BOD 5-day	5		%	SM 5210 B	01/24/07 0832	Q	RPD	W19566
Total Suspended Solids	103		%	SM 2540D	01/24/07 0932	Q	REC	W19569
Total Suspended Solids	102		%	SM 2540D	01/24/07 0932	Q	REC	W19569
Total Suspended Solids	<1		%	SM 2540D	01/24/07 0932	Q	RPD	W19569
Total Kjeldahl Nitrogen	104		%	EPA 351.3	01/25/07 0859	Q	REC	W19582
Total Kjeldahl Nitrogen	83		%	EPA 351.3	01/25/07 1525	S	REC	W19582
Total Kjeldahl Nitrogen	95		%	EPA 351.3	01/25/07 1525	SD	REC	W19582
Total Kjeldahl Nitrogen	5		%	EPA 351.3	01/25/07 1525	SD	RPD	W19582
Total Phosphorus	104		%	SM 4500-PBE	01/25/07 1505	Q	REC	W19591
Total Phosphorus	97		%	SM 4500-PBE	01/25/07 1716	Q	REC	W19591
Total Phosphorus	7		%	SM 4500-PBE	01/25/07 1716	Q	RPD	W19591

**NOTES:**

Q - lab control QD - lab control dup S - spike SD - spike dup B - blank D - duplicate SURR - surrogate



# CHAIN OF CUSTODY RECORD

RAS Project # 70121

PROJECT NAME / NUMBER <u>Pond 2 Samples</u>	PROJECT MANAGER <u>Tiff Wages</u>	TURNAROUND TIME: NORMAL <input checked="" type="checkbox"/> 7-10 day RUSH <input type="checkbox"/> _____ day(s)	COMMENTS:
REPORT MAILING ADDRESS (Include Company Name) <u>Norac, Inc.</u> <u>334 Phillips 311 Road</u> <u>Helena AR 72342</u>	P.O. # <u>40371</u>	ATTENTION: <u>Tiff Wages</u>	<div style="border: 1px solid black; padding: 5px;"> <h2 style="margin: 0;">RINECO</h2> <h3 style="margin: 0;">ANALYTICAL SERVICES</h3> <p style="margin: 0; font-size: small;">819 Vulcan Road • Benton, AR 72015 501-778-9089 • 1-800-377-4692 FAX 501-776-5816</p> </div>
BILLING ADDRESS <u>Same</u>	TELEPHONE # <u>570 572 9061</u>	FAX # <u>570 572 1416</u>	

**TEST PARAMETERS**

PRESERVATION CODES: 1. Cool, 4 degrees C 2. Sulfuric Acid, pH < 2 3. Nitric Acid, pH < 2 4. Sodium Thiosulfate 5. Hydrochloric Acid 6. Sodium Hydroxide 7. Zinc Acetate	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg); font-size: small;">No. of Containers</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg); font-size: small;">Preservation Codes</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg); font-size: small;">Sample Description / Matrix</div> </div>
--	---

Client I.D.	SAMPLE		Comp.	Grab	No. of Containers	Preservation Codes	Sample Description / Matrix	TEST PARAMETERS							RAS LABORATORY I.D. #	
	Date	Time						VOC	BOD	TSS	PH	Oil & Grease	Zinc	COD		TKN
Pond 2	1/22/07	10:30 AM	✓		3	5		✓								30
Pond 2	"	"	✓		1			✓								31
Pond 2	"	"	✓		1	2			✓							32
Pond 2	"	"	✓		1	3				✓						33
Pond 2	"	"	✓		2	2					✓					34
Pond 2	"	"	✓		1							✓				35

Relinquished by: (Signature)	Date	Time	Relinquished by: (Signature)	Date	Time	Relinquished by: (Signature)	Date	Time
<u>Tiff Wages</u>	1/24/07	11:45 AM	<u>Tiff Wages</u>					
Received by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
<u>Mike Wilson</u>	1/23/07	10:30 AM	<u>Mike Wilson</u>					





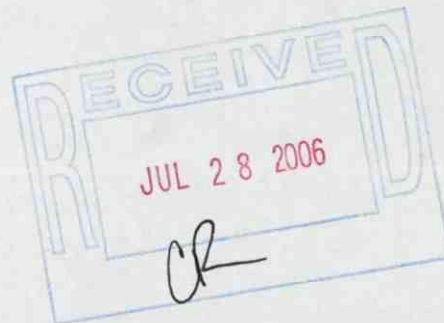
*RT*  
**NORAC**

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

Customer Service: (800) 786-6722  
Customer Service Fax: (800) 987-0845  
Phone: (870) 572-9061  
Fax: (870) 572-1416

July 26, 2006

Mr. Rufus J. Torrence  
ADEQ NPDES Pretreatment Engineer  
Arkansas Department of Environmental Quality  
8001 National Drive  
PO Box 8913  
Little Rock, AR 72219-8913



Dear Mr. Torrence:

In accordance with 40CFR403.12(e) please find enclosed our most recent monitoring report for the wastewater discharged from our facility in Helena, Arkansas. During the sampling period we were discharging about 44,368 gallons of water per day based on previous monthly use averages.

Please let me know if you have any questions or need any further information.

Sincerely,

*Jeff Wages*  
Jeff Wages  
EHS Coordinator

Enclosures

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

*Aug 2006 SAR  
Filed date 20060804*

Len Walp - Norac  
Robert Summers - Norac



July 26, 2006

Page 2

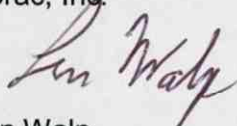
RE: Helena wastewater pretreatment report dated July 26, 2006.

SUBMISSIONS STATEMENT:

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

Submitted by,

Norac, Inc.

A handwritten signature in cursive script, appearing to read "Len Walp".

Len Walp  
Industrial Operations Manager



permit limfts 0607.xls

	day	month	det lim	
sample date				7/17/2006
sample time				0
location = pond outfall				2
flow (gal/day)				44368
report date				7/26/2006
Benzene	134	57	4.4	<4.4
Carbon Tetrachloride	380	142	2.8	<2.8
Chlorobenzene	380	142	6.0	<6
Chloroethane	295	110	8.7	<8.7
Chloroform	325	111	1.6	<1.6
1,1-Dichloroethane	59	22	4.7	<4.7
1,2-Dichloroethane	574	180	2.8	<2.8
1,1-Dichloroethene	60	22	2.8	<2.8
1,2-Dichloropropane	794	196	6.0	<6
Ethylbenzene	380	142	7.2	<7.2
Methyl Chloride	295	110	7.8	<7.8
Methylene Chloride	170	36	10.0	<10
Tetrachloroethene	164	52	4.1	<4.1
Toluene	74	28	6.0	<6
1,1,1-Trichloroethane	59	22	3.8	<3.8
1,1,2-Trichloroethane	127	32	5.0	<5
Trichloroethene	69	26	1.9	<1.9
Vinyl Chloride	172	97	6.4	<6.4
1,3-Dichloropropene	794	196	1.3	<1.3
trans-1,2-Dichloroethene	66	25	1.6	<1.6
1,2-Dichlorobenzene	794	196	3800	<380
1,3-Dichlorobenzene	380	142	3800	<380
1,4-Dichlorobenzene	380	142	8800	<880
1,2,4-Trichlorobenzene	794	196	3800	<380
Hexachlorobenzene	794	196	3800	<380
Hexachloroethane	794	196	3200	<320
Hexachlorobutadiene	380	142	1800	<180
Nitrobenzene	6402	2237	3800	<380
2-Nitrophenol	231	65	7200	<720
4-Nitrophenol	576	162	4800	<480
4,6-Dinitro-o-cresol	277	78	48000	<4800
total Cyanide	1200	420		
total Lead	690	320		
total Zinc mg/l	2610	1050	0.12	0.06
Acenaphthene	47	19	3800	<380
Anthracene	47	19	3800	<380
Bis(2-ethylhexyl) phthalate	258	95	5000	<500
Di-n-butyl phthalate	43	20	5000	<500
Diethyl phthalate	113	46	3800	<380
Dimethyl phthalate	47	19	3200	<320
Fluoranthene	54	22	4400	<440
Fluorene	47	19	3800	<380
Naphthalene	47	19	3200	<320
Phenanthrene	47	19	11000	<1100
Pyrene	48	20	3800	<380
phenol			3000	<300

o-xylene					
all values reported in µg/Liter					



Results Summary

RAS laboratory ID:	12430							
Client ID:	Pond 2 Water							
Sample Description:	Water							
Project #:	21819	Parameter	Result	Quantitation	Units	Method	Analyst	Analysis Date
		Oil and Grease	8.6	Limit 5	mg/l	EPA 166	AI	07/19/06 1558
RAS laboratory ID:	12431							
Client ID:	Pond 2 Water							
Sample Description:	Water							
Project #:	21819	Parameter	Result	Quantitation	Units	Method	Analyst	Analysis Date
		BOD 5-day	510	Limit 2	mg/l	EPA 405	AI	07/19/06 0836
RAS laboratory ID:	12432							
Client ID:	Pond 2 Water							
Sample Description:	Water							
Project #:	21819	Parameter	Result	Quantitation	Units	Method	Analyst	Analysis Date
		Zinc	0.06	Limit 0.002	mg/l	EPA 200 R	AI	07/20/06 0831

**Quality Control Summary**  
(Part C)

Parameter	Result	Det. Limit	Units	Method	Analysis Date	Sample Type	Project :	Batch
Oil and Grease	ND	5	mg/l	EPA 1664	07/19/06 1558	B	REG	B4086
1,2,4-Trichlorobenzene	ND	1.9	ug/l	EPA 625	07/21/06 1138	B	REG	B4086
1,2-Dichlorobenzene	ND	1.9	ug/l	EPA 625	07/21/06 1138	B	REG	B4086
1,2,4-Diphenylhydrazine	ND	11	ug/l	EPA 625	07/21/06 1138	B	REG	B4086
1,3-Dichlorobenzene	ND	1.9	ug/l	EPA 625	07/21/06 1138	B	REG	B4086
1,4-Dichlorobenzene	ND	4.4	ug/l	EPA 625	07/21/06 1138	B	REG	B4086
2,4,6-Tribromophenol (surr.)	89		%	EPA 625	07/21/06 1138	B	SURR	B4086
2,4,6-Trichlorophenol	ND	2.7	ug/l	EPA 625	07/21/06 1138	B	REG	B4086
2,4-Dichlorophenol	ND	2.7	ug/l	EPA 625	07/21/06 1138	B	REG	B4086
2,4-Dimethylphenol	ND	2.7	ug/l	EPA 625	07/21/06 1138	B	REG	B4086
2,4-Dinitrophenol	ND	42	ug/l	EPA 625	07/21/06 1138	B	REG	B4086
2,4-Dinitrotoluene	ND	5.7	ug/l	EPA 625	07/21/06 1138	B	REG	B4086
2,6-Dinitrotoluene	ND	1.9	ug/l	EPA 625	07/21/06 1138	B	REG	B4086
2-Chloronaphthalene	ND	1.9	ug/l	EPA 625	07/21/06 1138	B	REG	B4086
2-Chlorophenol	ND	3.3	ug/l	EPA 625	07/21/06 1138	B	REG	B4086
2-Fluorobiphenyl (surr.)	85		%	EPA 625	07/21/06 1138	B	SURR	B4086
2-Fluorophenol (surr.)	62		%	EPA 625	07/21/06 1138	B	SURR	B4086
2-Nitrophenol	ND	3.6	ug/l	EPA 625	07/21/06 1138	B	REG	B4086
3,3'-Dichlorobenzidine	ND	16.5	ug/l	EPA 625	07/21/06 1138	B	REG	B4086
4,6-Dinitro-o-cresol	ND	24	ug/l	EPA 625	07/21/06 1138	B	REG	B4086
4-Bromophenyl phenyl ether	ND	1.9	ug/l	EPA 625	07/21/06 1138	B	REG	B4086
p-Chloro-m-cresol	ND	3	ug/l	EPA 625	07/21/06 1138	B	REG	B4086
4-Chlorophenyl phenyl ether	ND	4.2	ug/l	EPA 625	07/21/06 1138	B	REG	B4086
4-Nitrophenol	ND	2.4	ug/l	EPA 625	07/21/06 1138	B	REG	B4086
Acenaphthene	ND	1.9	ug/l	EPA 625	07/21/06 1138	B	REG	B4086
Acenaphthylene	ND	3.5	ug/l	EPA 625	07/21/06 1138	B	REG	B4086
Anthracene	ND	1.9	ug/l	EPA 625	07/21/06 1138	B	REG	B4086
Benzidine	ND	44	ug/l	EPA 625	07/21/06 1138	B	REG	B4086
Benzo(a)anthracene	ND	7.8	ug/l	EPA 625	07/21/06 1138	B	REG	B4086
Benzo(a)pyrene	ND	2.5	ug/l	EPA 625	07/21/06 1138	B	REG	B4086
3,4-Benzofluoranthene	ND	4.8	ug/l	EPA 625	07/21/06 1138	B	REG	B4086
Benzo(g,h,i)perylene	ND	4.1	ug/l	EPA 625	07/21/06 1138	B	REG	B4086
Benzo(k)fluoranthene	ND	2.5	ug/l	EPA 625	07/21/06 1138	B	REG	B4086
Bis(2-chloroethoxy)methane	ND	5.3	ug/l	EPA 625	07/21/06 1138	B	REG	B4086
Bis(2-chloroethyl)ether	ND	5.7	ug/l	EPA 625	07/21/06 1138	B	REG	B4086
Bis(2-chloroisopropyl)ether	ND	5.7	ug/l	EPA 625	07/21/06 1138	B	REG	B4086
Bis(2-ethylhexyl)phthalate	ND	2.5	ug/l	EPA 625	07/21/06 1138	B	REG	B4086
Butylbenzyl phthalate	ND	2.5	ug/l	EPA 625	07/21/06 1138	B	REG	B4086
Chrysene	ND	2.5	ug/l	EPA 625	07/21/06 1138	B	REG	B4086
Di-n-butyl phthalate	3.1	2.5	ug/l	EPA 625	07/21/06 1138	B	REG	B4086
Di-n-octyl phthalate	ND	2.5	ug/l	EPA 625	07/21/06 1138	B	REG	B4086
Dibenz(a,h)anthracene	ND	2.5	ug/l	EPA 625	07/21/06 1138	B	REG	B4086
Diethyl phthalate	ND	1.9	ug/l	EPA 625	07/21/06 1138	B	REG	B4086
Dimethyl phthalate	ND	1.6	ug/l	EPA 625	07/21/06 1138	B	REG	B4086
Fluoranthene	ND	2.2	ug/l	EPA 625	07/21/06 1138	B	REG	B4086
Fluorene	ND	1.9	ug/l	EPA 625	07/21/06 1138	B	REG	B4086
Hexachlorobenzene	ND	1.9	ug/l	EPA 625	07/21/06 1138	B	REG	B4086
Hexachlorobutadiene	ND	0.9	ug/l	EPA 625	07/21/06 1138	B	REG	B4086
Hexachlorocyclopentadiene	ND	0.78	ug/l	EPA 625	07/21/06 1138	B	REG	B4086
Hexachloroethane	ND	1.6	ug/l	EPA 625	07/21/06 1138	B	REG	B4086
Indeno(1,2,3-cd)pyrene	ND	3.7	ug/l	EPA 625	07/21/06 1138	B	REG	B4086
Isophorone	ND	12	ug/l	EPA 625	07/21/06 1138	B	REG	B4086
n-Nitrosodi-n-propylamine	ND	0.84	ug/l	EPA 625	07/21/06 1138	B	REG	B4086
n-Nitrosodimethylamine	ND	0.96	ug/l	EPA 625	07/21/06 1138	B	REG	B4086
n-Nitrosodiphenylamine	ND	1.9	ug/l	EPA 625	07/21/06 1138	B	REG	B4086
Naphthalene	ND	1.6	ug/l	EPA 625	07/21/06 1138	B	REG	B4086
Nitrobenzene	ND	1.9	ug/l	EPA 625	07/21/06 1138	B	REG	B4086
Nitrobenzene-D5 (surr.)	97		%	EPA 625	07/21/06 1138	B	SURR	B4086
Pentachlorophenol	ND	3.6	ug/l	EPA 625	07/21/06 1138	B	REG	B4086
Phenanthrene	ND	5.4	ug/l	EPA 625	07/21/06 1138	B	REG	B4086
Phenol	ND	1.5	ug/l	EPA 625	07/21/06 1138	B	REG	B4086
Phenol-D5 (surr.)	52		%	EPA 625	07/21/06 1138	B	SURR	B4086
Pyrene	ND	1.9	ug/l	EPA 625	07/21/06 1138	B	REG	B4086
Terphenyl-D14 (surr.)	10*		%	EPA 625	07/21/06 1138	B	SURR	B4086
Chloride	ND	0.2	mg/l	EPA 300.0	07/19/06 1451	B	REG	S18518
Zinc	ND	0.002	mg/l	EPA 200.8	07/20/06 0831	B	REG	S18520
BOD 5-day	ND	2	mg/l	EPA 405.1	07/19/06 0837	B	REG	W17599
Total Kjeldahl Nitrogen	ND	1	mg/l	EPA 351.3	07/20/06 0927	B	REG	W17611
Total Suspended Solids	ND	4	mg/l	EPA 160.2	07/20/06 1030	B	REG	W17612
Total Organic Carbon (TOC)	ND	1	mg/l	EPA 415.1	07/20/06 1032	B	REG	W17614
	ND	10	mg/l	HACH 8000	07/21/06 1117	B	REG	W17621
1,1,1-Trichloroethane	ND		ug/l	EPA 624	07/20/06 2329	D	REG	V5815
1,1,1-Trichloroethane	<1		%	EPA 624	07/20/06 2329	D	KPD	V5815
1,1,2,2-Tetrachloroethane	ND		ug/l	EPA 624	07/20/06 2329	D	REG	V5815
1,1,2,2-Tetrachloroethane	<1		%	EPA 624	07/20/06 2329	D	KPD	V5815
1,1,2-Trichloroethane	ND		ug/l	EPA 624	07/20/06 2329	D	REG	V5815
1,1,2-Trichloroethane	<1		%	EPA 624	07/20/06 2329	D	KPD	V5815
1,1-Dichloroethane	ND		ug/l	EPA 624	07/20/06 2329	D	REG	V5815
1,1-Dichloroethane	<1		%	EPA 624	07/20/06 2329	D	KPD	V5815

NOTES:

Q - lab control Q1 - lab control dup S - spike SD - spike dup B - blank D - duplicate SURR - surrogate



**Quality Control Summary**  
(Part C)

Parameter	Result	Det. Limit	Units	Method	Analysis Date	Sample Type	Result Type	Batch
Tetrachloroethylene	ND	4.1	ug/l	EPA 624	07/20/06 2148	B	REG	V5811
Toluene	ND	6	ug/l	EPA 624	07/20/06 2148	B	REG	V5811
Toluene-D8 (sur.)	98		%	EPA 624	07/20/06 2148	B	SURR	V5811
trans-1,2-Dichloroethylene	ND	1.6	ug/l	EPA 624	07/20/06 2148	B	REG	V5811
trans-1,3-Dichloropropylene	ND	1.3	ug/l	EPA 624	07/20/06 2148	B	REG	V5811
Trichloroethylene	ND	1.9	ug/l	EPA 624	07/20/06 2148	B	REG	V5811
Vinyl chloride	ND	6.4	ug/l	EPA 624	07/20/06 2148	B	REG	V5811
Oil and Grease	97		%	EPA 1664	07/19/06 1558	Q	RFC	B4084
Oil and Grease	91		%	EPA 1664	07/19/06 1558	Q	RFC	B4084
Oil and Grease	6		%	EPA 1664	07/19/06 1558	Q	RPD	B4084
Oil and Grease	91		%	EPA 1664	07/19/06 1558	S	REC	B4084
1,2,4-Trichlorobenzene	62		%	EPA 625	07/21/06 1138	Q	REC	B4086
1,2-Dichlorobenzene	59		%	EPA 625	07/21/06 1138	Q	REC	B4086
1,2-Diphenylhydrazine	92		%	EPA 625	07/21/06 1138	Q	REC	B4086
1,3-Dichlorobenzene	56		%	EPA 625	07/21/06 1138	Q	RFC	B4086
1,4-Dichlorobenzene	56		%	EPA 625	07/21/06 1138	Q	RFC	B4086
2,4,6-Tribromophenol (sur.)	108		%	EPA 625	07/21/06 1138	Q	SURR	B4086
2,4,6-Trichlorophenol	97		%	EPA 625	07/21/06 1138	Q	REC	B4086
2,4-Dichlorophenol	93		%	EPA 625	07/21/06 1138	Q	REC	B4086
2,4-Dimethylphenol	57		%	EPA 625	07/21/06 1138	Q	REC	B4086
2,4-Dinitrophenol	65		%	EPA 625	07/21/06 1138	Q	REC	B4086
2,4-Dinitrotoluene	106		%	EPA 625	07/21/06 1138	Q	REC	B4086
2,6-Dinitrotoluene	101		%	EPA 625	07/21/06 1138	Q	REC	B4086
2-Chloronaphthalene	80		%	EPA 625	07/21/06 1138	Q	REC	B4086
2-Chlorophenol	89		%	EPA 625	07/21/06 1138	Q	REC	B4086
2-Fluorobiphenyl (sur.)	90		%	EPA 625	07/21/06 1138	Q	SURR	B4086
2-Fluorophenol (sur.)	68		%	EPA 625	07/21/06 1138	Q	SURR	B4086
2-Nitrophenol	98		%	EPA 625	07/21/06 1138	Q	RFC	B4086
4,6-Dinitro-o-cresol	91		%	EPA 625	07/21/06 1138	Q	REC	B4086
4-Bromophenyl phenyl ether	97		%	EPA 625	07/21/06 1138	Q	REC	B4086
p-Chloro-m-cresol	96		%	EPA 625	07/21/06 1138	Q	REC	B4086
4-Chlorophenyl phenyl ether	92		%	EPA 625	07/21/06 1138	Q	REC	B4086
4-Nitrophenol	63		%	EPA 625	07/21/06 1138	Q	RFC	B4086
Acenaphthene	87		%	EPA 625	07/21/06 1138	Q	RFC	B4086
Acenaphthylene	89		%	EPA 625	07/21/06 1138	Q	REC	B4086
Anthracene	94		%	EPA 625	07/21/06 1138	Q	REC	B4086
Benzo(a)anthracene	97		%	EPA 625	07/21/06 1138	Q	REC	B4086
Benzo(a)pyrene	99		%	EPA 625	07/21/06 1138	Q	REC	B4086
3,4-Benzofluoranthene	114		%	EPA 625	07/21/06 1138	Q	REC	B4086
Benzo(g,h,i)perylene	88		%	EPA 625	07/21/06 1138	Q	REC	B4086
Benzo(k)fluoranthene	103		%	EPA 625	07/21/06 1138	Q	REC	B4086
Bis(2-chloroethoxy)methane	95		%	EPA 625	07/21/06 1138	Q	REC	B4086
Bis(2-chloroethyl)ether	87		%	EPA 625	07/21/06 1138	Q	REC	B4086
Bis(2-chloroisopropyl)ether	85		%	EPA 625	07/21/06 1138	Q	REC	B4086
Bis(2-ethylhexyl)phthalate	106		%	EPA 625	07/21/06 1138	Q	REC	B4086
Butylbenzyl phthalate	110		%	EPA 625	07/21/06 1138	Q	REC	B4086
Chrysene	91		%	EPA 625	07/21/06 1138	Q	RFC	B4086
Di-n-butyl phthalate	103		%	EPA 625	07/21/06 1138	Q	REC	B4086
Di-n-octyl phthalate	126		%	EPA 625	07/21/06 1138	Q	REC	B4086
Dibenz(a,h)anthracene	94		%	EPA 625	07/21/06 1138	Q	REC	B4086
Diethyl phthalate	99		%	EPA 625	07/21/06 1138	Q	REC	B4086
Dimethyl phthalate	94		%	EPA 625	07/21/06 1138	Q	REC	B4086
Fluoranthene	91		%	EPA 625	07/21/06 1138	Q	RFC	B4086
Fluorene	93		%	EPA 625	07/21/06 1138	Q	RFC	B4086
Hexachlorobenzene	93		%	EPA 625	07/21/06 1138	Q	RFC	B4086
Hexachlorobutadiene	56		%	EPA 625	07/21/06 1138	Q	RFC	B4086
Hexachlorocyclopentadiene	67		%	EPA 625	07/21/06 1138	Q	REC	B4086
Hexachloroethane	53		%	EPA 625	07/21/06 1138	Q	REC	B4086
Indeno(1,2,3-cd)pyrene	90		%	EPA 625	07/21/06 1138	Q	REC	B4086
Isophorone	93		%	EPA 625	07/21/06 1138	Q	REC	B4086
n-Nitrosodi-n-propylamine	90		%	EPA 625	07/21/06 1138	Q	REC	B4086
n-Nitrosodimethylamine	65		%	EPA 625	07/21/06 1138	Q	REC	B4086
n-Nitrosodiphenylamine	94		%	EPA 625	07/21/06 1138	Q	REC	B4086
Naphthalene	72		%	EPA 625	07/21/06 1138	Q	RFC	B4086
Nitrobenzene	85		%	EPA 625	07/21/06 1138	Q	RFC	B4086
Nitrobenzene-D5 (sur.)	94		%	EPA 625	07/21/06 1138	Q	SURR	B4086
Pentachlorophenol	102		%	EPA 625	07/21/06 1138	Q	REC	B4086
Phenanthrene	91		%	EPA 625	07/21/06 1138	Q	REC	B4086
Phenol	57		%	EPA 625	07/21/06 1138	Q	REC	B4086
Phenol-D5 (sur.)	56		%	EPA 625	07/21/06 1138	Q	SURR	B4086
Pyrene	102		%	EPA 625	07/21/06 1138	Q	REC	B4086
Terphenyl-D14 (sur.)	105		%	EPA 625	07/21/06 1138	Q	SURR	B4086
1,2,4-Trichlorobenzene	68		%	EPA 625	07/21/06 1138	Q	REC	B4086
1,2,4-Trichlorobenzene	8		%	EPA 625	07/21/06 1138	Q	RPD	B4086
1,2-Dichlorobenzene	67		%	EPA 625	07/21/06 1138	Q	REC	B4086
1,2-Dichlorobenzene	6		%	EPA 625	07/21/06 1138	Q	RPD	B4086
1,2-Diphenylhydrazine	92		%	EPA 625	07/21/06 1138	Q	REC	B4086
1,2-Diphenylhydrazine	1		%	EPA 625	07/21/06 1138	Q	RPD	B4086
1,3-Dichlorobenzene	60		%	EPA 625	07/21/06 1138	Q	RFC	B4086
1,3-Dichlorobenzene	7		%	EPA 625	07/21/06 1138	Q	RPD	B4086

NOTES:

Q - lab control QD - lab control dup S - spike SD - spike dup B - blank D - duplicate SURR - surrogate

**Quality Control Summary**  
**(Part C)**

Parameter	Result	Det. Limit	Units	Method	Analysis Date	Sample Type	Result Type	Batch
1,4-Dichlorobenzene	60		%	EPA 625	07/21/06 1138	Q	REC	B4086
1,4-Dichlorobenzene	6		%	EPA 625	07/21/06 1138	Q	RPD	B4086
2,4,6-Tribromophenol (surr.)	109		%	EPA 625	07/21/06 1138	Q	SURR	B4086
2,4,6-Trichlorophenol	98		%	EPA 625	07/21/06 1138	Q	REC	B4086
2,4,6-Trichlorophenol	1		%	EPA 625	07/21/06 1138	Q	RPD	B4086
2,4-Dichlorophenol	95		%	EPA 625	07/21/06 1138	Q	REC	B4086
2,4-Dichlorophenol	<1		%	EPA 625	07/21/06 1138	Q	RPD	B4086
2,4-Dimethylphenol	50		%	EPA 625	07/21/06 1138	Q	REC	B4086
2,4-Dimethylphenol	12		%	EPA 625	07/21/06 1138	Q	RPD	B4086
2,4-Dinitrophenol	59		%	EPA 625	07/21/06 1138	Q	REC	B4086
2,4-Dinitrophenol	9		%	EPA 625	07/21/06 1138	Q	RPD	B4086
2,4-Dinitrotoluene	111		%	EPA 625	07/21/06 1138	Q	REC	B4086
2,4-Dinitrotoluene	5		%	EPA 625	07/21/06 1138	Q	RPD	B4086
2,6-Dinitrotoluene	105		%	EPA 625	07/21/06 1138	Q	REC	B4086
2,6-Dinitrotoluene	4		%	EPA 625	07/21/06 1138	Q	RPD	B4086
2-Chloronaphthalene	85		%	EPA 625	07/21/06 1138	Q	REC	B4086
2-Chloronaphthalene	4		%	EPA 625	07/21/06 1138	Q	RPD	B4086
2-Chlorophenol	89		%	EPA 625	07/21/06 1138	Q	REC	B4086
2-Chlorophenol	<1		%	EPA 625	07/21/06 1138	Q	RPD	B4086
2-Fluorobiphenyl (surr.)	91		%	EPA 625	07/21/06 1138	Q	SURR	B4086
2-Fluorophenol (surr.)	69		%	EPA 625	07/21/06 1138	Q	SURR	B4086
2-Nitrophenol	100		%	EPA 625	07/21/06 1138	Q	REC	B4086
2-Nitrophenol	2		%	EPA 625	07/21/06 1138	Q	RPD	B4086
4,6-Dinitro-o-cresol	94		%	EPA 625	07/21/06 1138	Q	REC	B4086
4,6-Dinitro-o-cresol	3		%	EPA 625	07/21/06 1138	Q	RPD	B4086
4-Bromophenyl phenyl ether	97		%	EPA 625	07/21/06 1138	Q	REC	B4086
4-Bromophenyl phenyl ether	1		%	EPA 625	07/21/06 1138	Q	RPD	B4086
p-Chloro-m-cresol	97		%	EPA 625	07/21/06 1138	Q	REC	B4086
p-Chloro-m-cresol	2		%	EPA 625	07/21/06 1138	Q	RPD	B4086
4-Chlorophenyl phenyl ether	95		%	EPA 625	07/21/06 1138	Q	REC	B4086
4-Chlorophenyl phenyl ether	3		%	EPA 625	07/21/06 1138	Q	RPD	B4086
4-Nitrophenol	61		%	EPA 625	07/21/06 1138	Q	REC	B4086
4-Nitrophenol	3		%	EPA 625	07/21/06 1138	Q	RPD	B4086
Acenaphthene	89		%	EPA 625	07/21/06 1138	Q	REC	B4086
Acenaphthene	3		%	EPA 625	07/21/06 1138	Q	RPD	B4086
Acenaphthylene	92		%	EPA 625	07/21/06 1138	Q	REC	B4086
Acenaphthylene	3		%	EPA 625	07/21/06 1138	Q	RPD	B4086
Anthracene	96		%	EPA 625	07/21/06 1138	Q	REC	B4086
Anthracene	3		%	EPA 625	07/21/06 1138	Q	RPD	B4086
Benzo(a)anthracene	100		%	EPA 625	07/21/06 1138	Q	REC	B4086
Benzo(a)anthracene	3		%	EPA 625	07/21/06 1138	Q	RPD	B4086
Benzo(a)pyrene	104		%	EPA 625	07/21/06 1138	Q	REC	B4086
Benzo(a)pyrene	4		%	EPA 625	07/21/06 1138	Q	RPD	B4086
3,4-Benzofluoranthene	114		%	EPA 625	07/21/06 1138	Q	REC	B4086
3,4-Benzofluoranthene	<1		%	EPA 625	07/21/06 1138	Q	RPD	B4086
Benzo(g,h,i)perylene	98		%	EPA 625	07/21/06 1138	Q	REC	B4086
Benzo(g,h,i)perylene	11		%	EPA 625	07/21/06 1138	Q	RPD	B4086
Benzo(k)fluoranthene	103		%	EPA 625	07/21/06 1138	Q	REC	B4086
Benzo(k)fluoranthene	1		%	EPA 625	07/21/06 1138	Q	RPD	B4086
Bis(2-chloroethoxy)methane	95		%	EPA 625	07/21/06 1138	Q	REC	B4086
Bis(2-chloroethoxy)methane	1		%	EPA 625	07/21/06 1138	Q	RPD	B4086
Bis(2-chloroethyl)ether	88		%	EPA 625	07/21/06 1138	Q	REC	B4086
Bis(2-chloroethyl)ether	1		%	EPA 625	07/21/06 1138	Q	RPD	B4086
Bis(2-chloroisopropyl)ether	88		%	EPA 625	07/21/06 1138	Q	REC	B4086
Bis(2-chloroisopropyl)ether	4		%	EPA 625	07/21/06 1138	Q	RPD	B4086
Bis(2-ethylhexyl)phthalate	111		%	EPA 625	07/21/06 1138	Q	REC	B4086
Bis(2-ethylhexyl)phthalate	4		%	EPA 625	07/21/06 1138	Q	RPD	B4086
Butylbenzyl phthalate	118		%	EPA 625	07/21/06 1138	Q	REC	B4086
Butylbenzyl phthalate	7		%	EPA 625	07/21/06 1138	Q	RPD	B4086
Chrysene	94		%	EPA 625	07/21/06 1138	Q	REC	B4086
Chrysene	3		%	EPA 625	07/21/06 1138	Q	RPD	B4086
Di-n-butyl phthalate	108		%	EPA 625	07/21/06 1138	Q	REC	B4086
Di-n-butyl phthalate	4		%	EPA 625	07/21/06 1138	Q	RPD	B4086
Di-n-octyl phthalate	143		%	EPA 625	07/21/06 1138	Q	REC	B4086
Di-n-octyl phthalate	5		%	EPA 625	07/21/06 1138	Q	RPD	B4086
Dibenz(a,h)anthracene	102		%	EPA 625	07/21/06 1138	Q	REC	B4086
Dibenz(a,h)anthracene	9		%	EPA 625	07/21/06 1138	Q	RPD	B4086
Diethyl phthalate	102		%	EPA 625	07/21/06 1138	Q	REC	B4086
Diethyl phthalate	4		%	EPA 625	07/21/06 1138	Q	RPD	B4086
Dimethyl phthalate	97		%	EPA 625	07/21/06 1138	Q	REC	B4086
Dimethyl phthalate	3		%	EPA 625	07/21/06 1138	Q	RPD	B4086
Fluoranthene	98		%	EPA 625	07/21/06 1138	Q	REC	B4086
Fluoranthene	8		%	EPA 625	07/21/06 1138	Q	RPD	B4086
Fluorene	97		%	EPA 625	07/21/06 1138	Q	REC	B4086
Fluorene	4		%	EPA 625	07/21/06 1138	Q	RPD	B4086
Hexachlorobenzene	96		%	EPA 625	07/21/06 1138	Q	REC	B4086
Hexachlorobenzene	3		%	EPA 625	07/21/06 1138	Q	RPD	B4086
Hexachlorobutadiene	63		%	EPA 625	07/21/06 1138	Q	REC	B4086
Hexachlorobutadiene	12		%	EPA 625	07/21/06 1138	Q	RPD	B4086
Hexachlorocyclopentadiene	75		%	EPA 625	07/21/06 1138	Q	REC	B4086

**NOTES:**

Q - lab control QD - lab control dup S - spike SD - spike dup B - blank D - duplicate SURR - surrogate



**Quality Control Summary**  
**(Part C)**

Parameter	Result	Det. Limit	Units	Method	Analysis Date	Sample Type	Result Type	Batch
Hexachlorocyclopentadiene	8		%	EPA 625	07/21/06 1138	Q	RPD	B4086
Hexachlorocyclohexane	58		%	EPA 625	07/21/06 1138	Q	REC	B4086
Hexachloroethane	9		%	EPA 625	07/21/06 1138	Q	RPD	B4086
Indeno(1,2,3-cd)pyrene	102		%	EPA 625	07/21/06 1138	Q	REC	B4086
Indeno(1,2,3-cd)pyrene	13		%	EPA 625	07/21/06 1138	Q	RPD	B4086
Isophorone	94		%	EPA 625	07/21/06 1138	Q	REC	B4086
Isophorone	1		%	EPA 625	07/21/06 1138	Q	RPD	B4086
n-Nitrosodi-n-propylamine	92		%	EPA 625	07/21/06 1138	Q	REC	B4086
n-Nitrosodi-n-propylamine	3		%	EPA 625	07/21/06 1138	Q	RPD	B4086
n-Nitrosodimethylamine	63		%	EPA 625	07/21/06 1138	Q	REC	B4086
n-Nitrosodimethylamine	3		%	EPA 625	07/21/06 1138	Q	RPD	B4086
n-Nitrosodiphenylamine	92		%	EPA 625	07/21/06 1138	Q	REC	B4086
n-Nitrosodiphenylamine	<1		%	EPA 625	07/21/06 1138	Q	RPD	B4086
Naphthalene	77		%	EPA 625	07/21/06 1138	Q	REC	B4086
Naphthalene	6		%	EPA 625	07/21/06 1138	Q	RPD	B4086
Nitrobenzene	87		%	EPA 625	07/21/06 1138	Q	REC	B4086
Nitrobenzene	2		%	EPA 625	07/21/06 1138	Q	RPD	B4086
Nitrobenzene-D5 (surr.)	94		%	EPA 625	07/21/06 1138	Q	SURR	B4086
Pentachlorophenol	101		%	EPA 625	07/21/06 1138	Q	REC	B4086
Pentachlorophenol	<1		%	EPA 625	07/21/06 1138	Q	RPD	B4086
Phenanthrene	94		%	EPA 625	07/21/06 1138	Q	REC	B4086
Phenanthrene	3		%	EPA 625	07/21/06 1138	Q	RPD	B4086
Phenol	58		%	EPA 625	07/21/06 1138	Q	REC	B4086
Phenol	1		%	EPA 625	07/21/06 1138	Q	RPD	B4086
Phenol-D5	57		%	EPA 625	07/21/06 1138	Q	SURR	B4086
Pyrene	112		%	EPA 625	07/21/06 1138	Q	REC	B4086
Pyrene	9		%	EPA 625	07/21/06 1138	Q	RPD	B4086
Terphenyl-D14 (surr.)	116		%	EPA 625	07/21/06 1138	Q	SURR	B4086
1,1,1-Trichloroethane	87		%	EPA 624	07/20/06 2114	Q	REC	V5815
1,1,2,2-Tetrachloroethane	97		%	EPA 624	07/20/06 2114	Q	REC	V5815
1,1,2-Trichloroethane	100		%	EPA 624	07/20/06 2114	Q	REC	V5815
1,1-Dichloroethane	93		%	EPA 624	07/20/06 2114	Q	REC	V5815
1,1-Dichloroethylene	103		%	EPA 624	07/20/06 2114	Q	REC	V5815
1,2-Dichloroethane	100		%	EPA 624	07/20/06 2114	Q	REC	V5815
1,2-Dichloropropane	96		%	EPA 624	07/20/06 2114	Q	REC	V5815
Acrylonitrile	104		%	EPA 624	07/20/06 2114	Q	REC	V5815
Benzene	102		%	EPA 624	07/20/06 2114	Q	REC	V5815
Dichlorobromomethane	94		%	EPA 624	07/20/06 2114	Q	REC	V5815
Bromofluorobenzene (surr.)	101		%	EPA 624	07/20/06 2114	Q	SURR	V5815
Bromoform	97		%	EPA 624	07/20/06 2114	Q	REC	V5815
Carbon tetrachloride	87		%	EPA 624	07/20/06 2114	Q	REC	V5815
Chlorobenzene	98		%	EPA 624	07/20/06 2114	Q	REC	V5815
Chloroethane	102		%	EPA 624	07/20/06 2114	Q	REC	V5815
Chloroform	96		%	EPA 624	07/20/06 2114	Q	REC	V5815
cis-1,3-Dichloropropylene	84		%	EPA 624	07/20/06 2114	Q	REC	V5815
Chlorodibromomethane	97		%	EPA 624	07/20/06 2114	Q	REC	V5815
Dibromofluoromethane (surr.)	97		%	EPA 624	07/20/06 2114	Q	SURR	V5815
Ethylbenzene	98		%	EPA 624	07/20/06 2114	Q	REC	V5815
Methyl bromide (bromomethane)	96		%	EPA 624	07/20/06 2114	Q	REC	V5815
Methyl chloride (chloromethane)	104		%	EPA 624	07/20/06 2114	Q	REC	V5815
Methylene chloride	110		%	EPA 624	07/20/06 2114	Q	REC	V5815
Tetrachloroethylene	96		%	EPA 624	07/20/06 2114	Q	REC	V5815
Toluene	102		%	EPA 624	07/20/06 2114	Q	REC	V5815
Toluene-D8 (surr.)	99		%	EPA 624	07/20/06 2114	Q	SURR	V5815
trans-1,2-Dichloroethylene	107		%	EPA 624	07/20/06 2114	Q	REC	V5815
trans-1,3-Dichloropropylene	82		%	EPA 624	07/20/06 2114	Q	REC	V5815
Trichloroethylene	98		%	EPA 624	07/20/06 2114	Q	REC	V5815
Vinyl chloride	104		%	EPA 624	07/20/06 2114	Q	REC	V5815
1,1,1-Trichloroethane	77		%	EPA 624	07/21/06 0002	S	REC	V5815
1,1,2,2-Tetrachloroethane	97		%	EPA 624	07/21/06 0002	S	REC	V5815
1,1,2-Trichloroethane	101		%	EPA 624	07/21/06 0002	S	REC	V5815
1,1-Dichloroethane	89		%	EPA 624	07/21/06 0002	S	REC	V5815
1,1-Dichloroethylene	98		%	EPA 624	07/21/06 0002	S	REC	V5815
1,2-Dichloroethane	98		%	EPA 624	07/21/06 0002	S	REC	V5815
1,2-Dichloropropane	88		%	EPA 624	07/21/06 0002	S	REC	V5815
Acrylonitrile	94		%	EPA 624	07/21/06 0002	S	REC	V5815
Benzene	98		%	EPA 624	07/21/06 0002	S	REC	V5815
Dichlorobromomethane	91		%	EPA 624	07/21/06 0002	S	REC	V5815
Bromofluorobenzene (surr.)	101		%	EPA 624	07/21/06 0002	S	SURR	V5815
Bromoform	89		%	EPA 624	07/21/06 0002	S	REC	V5815
Carbon tetrachloride	82		%	EPA 624	07/21/06 0002	S	REC	V5815
Chlorobenzene	92		%	EPA 624	07/21/06 0002	S	REC	V5815
Chloroethane	99		%	EPA 624	07/21/06 0002	S	REC	V5815
Chloroform	92		%	EPA 624	07/21/06 0002	S	REC	V5815
cis-1,3-Dichloropropylene	76		%	EPA 624	07/21/06 0002	S	REC	V5815
Chlorodibromomethane	94		%	EPA 624	07/21/06 0002	S	REC	V5815
Dibromofluoromethane (surr.)	97		%	EPA 624	07/21/06 0002	S	SURR	V5815
Ethylbenzene	93		%	EPA 624	07/21/06 0002	S	REC	V5815
Methyl bromide (bromomethane)	81		%	EPA 624	07/21/06 0002	S	REC	V5815
Methyl chloride (chloromethane)	104		%	EPA 624	07/21/06 0002	S	REC	V5815

**NOTES:**

Q - lab control Q1 - lab control dup S - spike SD - spike dup B - blank D - duplicate SURR - surrogate

**Quality Control Summary  
(Part C)**

Parameter	Result	Det. Limit	Units	Method	Analysis Date	Sample Type	Result Type	Batch
Methylene chloride	110		%	EPA 624	07/21/06 0002	S	REC	V5812
Tetrachloroethylene	87		%	EPA 624	07/21/06 0002	S	REC	V5812
Toluene	97		%	EPA 624	07/21/06 0002	S	REC	V5812
Toluene-D8 (sur.)	99		%	EPA 624	07/21/06 0002	S	SURR	V5812
trans-1,2-Dichloroethylene	99		%	EPA 624	07/21/06 0002	S	REC	V5812
trans-1,3-Dichloropropylene	74		%	EPA 624	07/21/06 0002	S	REC	V5812
Trichloroethylene	94		%	EPA 624	07/21/06 0002	S	REC	V5812
Vinyl chloride	98		%	EPA 624	07/21/06 0002	S	REC	V5812
Chloride	10.3		%	EPA 300.0	07/19/06 1451	Q	REC	S18512
Chloride	-		%	EPA 300.0	07/19/06 1451	S	REC	S18512
Chloride	-		%	EPA 300.0	07/19/06 1451	SD	REC	S18512
Chloride	<1		%	EPA 300.0	07/19/06 1451	SD	RPD	S18512
Zinc	98		%	EPA 200.8	07/20/06 0831	Q	REC	S18520
Zinc	87		%	EPA 200.8	07/20/06 0831	S	REC	S18520
Zinc	91		%	EPA 200.8	07/20/06 0831	SD	REC	S18520
Zinc	4		%	EPA 200.8	07/20/06 0831	SD	RPD	S18520
pH	101		%	EPA 150.1	07/18/06 1737	Q	REC	W1759
BOD 5-day	100		%	EPA 405.1	07/19/06 0837	Q	REC	W1759
BOD 5-day	101		%	EPA 405.1	07/19/06 0837	Q	REC	W1759
BOD 5-day	<1		%	EPA 405.1	07/19/06 0837	Q	RPD	W1759
Total Kjeldahl N trogen	98		%	EPA 351.3	07/20/06 0927	Q	REC	W1761
Total Kjeldahl N trogen	92		%	EPA 351.3	07/20/06 1507	S	REC	W1761
Total Kjeldahl N trogen	92		%	EPA 351.3	07/20/06 1507	SD	REC	W1761
Total Kjeldahl N trogen	<1		%	EPA 351.3	07/20/06 1507	SD	RPD	W1761
Total Suspended Solids	102		%	EPA 160.2	07/20/06 1030	Q	REC	W1761
Total Suspended Solids	102		%	EPA 160.2	07/20/06 1030	Q	REC	W1761
Total Suspended Solids	1		%	EPA 160.2	07/20/06 1030	Q	RPD	W1761
Total Organic Carbon	10.3		%	EPA 415.1	07/20/06 1032	Q	REC	W1761
Total Organic Carbon	10.3		%	EPA 415.1	07/20/06 1032	Q	REC	W1761
Total Organic Carbon	1		%	EPA 415.1	07/20/06 1032	Q	RPD	W1761
Total Organic Carbon	10.1		%	EPA 415.1	07/20/06 1033	S	REC	W1761
COD	101		%	HACH 8000	07/21/06 1117	Q	REC	W1762
COD	96		%	HACH 8000	07/21/06 1117	S	REC	W1762
COD	96		%	HACH 8000	07/21/06 1117	SD	REC	W1762
COD	<1		%	HACH 8000	07/21/06 1117	SD	RPD	W1762

NOTES:

Q - lab control QD - lab control dup S - spike SD - spike dup B - blank D - duplicate SURR - surrogate



# CHAIN OF CUSTODY RECORD

RAS Project # **21819**

<b>PROJECT NAME / NUMBER</b> Pond 2 Samples	<b>PROJECT MANAGER</b> Jeff Wages	<b>TURNAROUND TIME:</b> NORMAL <input type="checkbox"/> 7-10 day RUSH <input checked="" type="checkbox"/> 6 day(s)	<b>COMMENTS:</b>
<b>REPORT MAILING ADDRESS</b> (Include Company Name) Hovac, Inc. 334 Phillips 311 Road Helena, AR 72342-9033	<b>PO. #</b> 38443	<b>ATTENTION:</b> Jeff Wages	<div style="border: 1px solid black; padding: 5px;"> <h2 style="margin: 0;">RINECO</h2> <h3 style="margin: 0;">ANALYTICAL SERVICES</h3> <p style="font-size: small; margin: 0;">819 Vulture Road - Benton, AR 72015                      501-778-9089 • 1-800-377-4692                      FAX 501-776-5816</p> </div>
<b>BILLING ADDRESS</b>	<b>TELEPHONE #</b> 870 572 9061	<b>FAX #</b> 870 572 1416	

**TEST PARAMETERS**

<b>PRESERVATION CODES:</b> 1. Cool, 4 degrees C 2. Sulfuric Acid, pH < 2 3. Nitric Acid, pH < 2 4. Sodium Thiosulfate 5. Hydrochloric Acid 6. Sodium Hydroxide 7. Zinc Acetate	Samplers (Signature): <div style="font-size: 2em; font-family: cursive;">Jeff Wages</div>
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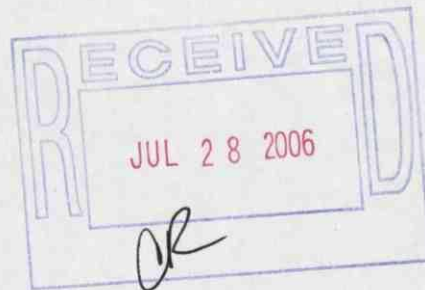
Client I.D.	SAMPLE		Comp.	Grab	No. of Containers	Preservation Codes	Sample Description/Matrix	PH, Chloride	TKN, COD, TOC	TSS	Volatiles	Semi Volatiles	Oil & Grease	BOD	Zinc	RAS LABORATORY I.D. #
	Date	Time														
Pond 2	7/27/06	10:00am	✓	✓	1		✓									12425
Pond 2	"	"	✓	✓	1	2	✓									12426
Pond 2	"	"	✓	✓	1			✓								12427
Pond 2	"	"	✓	✓	3	5			✓							12428
Pond 2	"	"	✓	✓	1					✓						12429
Pond 2	"	"	✓	✓	1	2					✓					12430
Pond 2	"	"	✓	✓	1							✓				12431
Pond 2	"	"	✓	✓	1	3							✓			12432

Relinquished by: (Signature)	Date	Time	Relinquished by: (Signature)	Date	Time	Relinquished by: (Signature)	Date	Time
<i>Jeff Wages</i>	7/27/06	11:05am	<i>Jeff Wages</i>					
Received by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
<i>[Signature]</i>	7/27/06	14:00pm	<i>[Signature]</i>			<i>[Signature]</i>		

07/26/06 WED 15:46 FAX 501 778 1096 RINECO ANALYTICAL 011

**Rineco Analytical Services**

819 Vulcan Road - Haskell  
Benton, Arkansas 72015  
(800) 377-4692 / (501) 778-9089  
FAX (501) 776-5816



**Analysis Summary**

**Norac Co., Inc.**

334 Phillips 311 Rd  
Helena, AR 72342-9033  
870-572-9061  
870-572-1416 (FAX)

<b>Client's Project ID:</b>	Pond 2 Samples	<b>Project:</b>	21819
<b>Sampling Date:</b>	07/17/06; 10:20am	<b>Date Received:</b>	07/18/06; 10:20am
<b>Contact Name:</b>	Jeff Wages	<b>Report Date:</b>	07/26/06

**Comments:** ND = not detected

(Surr.) = internal standard added to the sample to ensure overall efficiency of the method.

Standard practice for quality control includes the use of blanks, laboratory control samples, matrix spikes and duplicate on at least 10% of samples analyzed. Standard practice for quality assurance includes compliance to USEPA guidelines for instrument maintenance and calibration.

Quality Manager or  
Laboratory Director

*[Signature]* Date 7/26/06



Results Summary

RAS laboratory ID:	12425								
Client ID:	Pond 2 Water								
Sample Description:	Water								
Project #:	21819	Parameter	Result	Quantitation Limit	Units	Method	Analyst	Analysis Date	
		Chloride	7700	200	mg/l	EPA 300.0	AI	07/19/06 1450	
		pH	7.8	-	Units	EPA 150	AI	07/18/06 1737	
RAS laboratory ID:	12426								
Client ID:	Pond 2 Water								
Sample Description:	Water								
Project #:	21819	Parameter	Result	Quantitation Limit	Units	Method	Analyst	Analysis Date	
		Total Organic Carbon	240	1	mg/l	EPA 415	AI	07/20/06 1031	
		Total Kjeldahl Nitrogen	12	1	mg/l	EPA 351.3	AI	07/20/06 1927	
		CO <sub>2</sub>	1400	10	mg/l	HACH 8000	AI	07/21/06 0348	
RAS laboratory ID:	12427								
Client ID:	Pond 2 Water								
Sample Description:	Water								
Project #:	21819	Parameter	Result	Quantitation Limit	Units	Method	Analyst	Analysis Date	
		Total Suspended Solids	87	4	mg/l	EPA 160.1	AI	07/20/06 1030	
RAS laboratory ID:	12428								
Client ID:	Pond 2 Water								
Sample Description:	Water								
Project #:	21819	Parameter	Result	Quantitation Limit	Units	Method	Analyst	Analysis Date	
		1,1,1-Trichloroethane	ND	3.8	ug/l	EPA 62	AI	07/20/06 2255	
		1,1,2,2-Tetrachloroethane	ND	6.9	ug/l	EPA 62	AI	07/20/06 2255	
		1,1,2-Trichloroethane	ND	5	ug/l	EPA 62	AI	07/20/06 2255	
		1,1-Dichloroethane	ND	4.7	ug/l	EPA 62	AI	07/20/06 2255	
		1,1-Dichloroethylene	ND	2.8	ug/l	EPA 62	AI	07/20/06 2255	
		1,2-Dichloroethane	ND	2.8	ug/l	EPA 62	AI	07/20/06 2255	
		1,2-Dichloropropane	ND	6	ug/l	EPA 62	AI	07/20/06 2255	
		2-Chloroethylvinyl ether	ND	5.1	ug/l	EPA 62	AI	07/20/06 2255	
		Acrolein	ND	50	ug/l	EPA 62	AI	07/20/06 2255	
		Acrylonitrile	ND	50	ug/l	EPA 62	AI	07/20/06 2255	
		Benzene	ND	4.4	ug/l	EPA 62	AI	07/20/06 2255	
		Dichlorobromomethane	ND	2.2	ug/l	EPA 62	AI	07/20/06 2255	
		Bromofluorobenzene (surr.)	99	%	%	EPA 62	AI	07/20/06 2255	
		Bromoform	ND	4.7	ug/l	EPA 62	AI	07/20/06 2255	
		Carbon tetrachloride	ND	2.8	ug/l	EPA 62	AI	07/20/06 2255	
		Chlorobenzene	ND	6	ug/l	EPA 62	AI	07/20/06 2255	
		Chloroethane	ND	8.7	ug/l	EPA 62	AI	07/20/06 2255	
		Chloroform	ND	1.6	ug/l	EPA 62	AI	07/20/06 2255	
		cis-1,3-Dichloropropylene	ND	5	ug/l	EPA 62	AI	07/20/06 2255	
		Chlorodibromomethane	ND	3.1	ug/l	EPA 62	AI	07/20/06 2255	
		Dibromofluoromethane (surr.)	96	%	%	EPA 62	AI	07/20/06 2255	
		Ethylbenzene	ND	7.2	ug/l	EPA 62	AI	07/20/06 2255	
		Methyl bromide(Bromomethane)	ND	8.9	ug/l	EPA 62	AI	07/20/06 2255	
		Methyl chloride(Chloromethane)	ND	7.8	ug/l	EPA 62	AI	07/20/06 2255	
		Methylene chloride	ND	10	ug/l	EPA 62	AI	07/20/06 2255	
		Tetrachloroethylene	ND	4.1	ug/l	EPA 62	AI	07/20/06 2255	
		Toluene	ND	6	ug/l	EPA 62	AI	07/20/06 2255	
		Toluene-D8 (surr.)	98	%	%	EPA 62	AI	07/20/06 2255	
		trans 1,2-Dichloroethylene	ND	1.6	ug/l	EPA 62	AI	07/20/06 2255	
		trans-1,3-Dichloropropylene	ND	1.3	ug/l	EPA 62	AI	07/20/06 2255	
		Trichloroethylene	ND	1.9	ug/l	EPA 62	AI	07/20/06 2255	
		Vinyl chloride	ND	6.4	ug/l	EPA 62	AI	07/20/06 2255	

Results Summary

RAS Laboratory ID: 12429  
 Client ID: Pond 2 Water  
 Sample Description: Water  
 Project #: 21819

Parameter	Result	Quantitation	Units	Method	Analyst	Analysis Date
		Limit				
1,2,4-Trichlorobenzene	ND	380	ug/l	EPA 62	AI	07/21/06 1137
1,2-Dichlorobenzene	ND	380	ug/l	EPA 62	AI	07/21/06 1137
1,2-Diphenylhydrazine	ND	2200	ug/l	EPA 62	AI	07/21/06 1137
1,3-Dichlorobenzene	ND	380	ug/l	EPA 62	AI	07/21/06 1137
1,4-Dichlorobenzene	ND	880	ug/l	EPA 62	AI	07/21/06 1137
2,4,6-Tribromophenol (surr.)	diluted out			EPA 62	AI	07/21/06 1137
2,4,6-Trichlorophenol	ND	540	ug/l	EPA 62	AI	07/21/06 1137
2,4-Dichlorophenol	ND	540	ug/l	EPA 62	AI	07/21/06 1137
2,4-Dimethylphenol	ND	540	ug/l	EPA 62	AI	07/21/06 1137
2,4-Dinitrophenol	ND	8400	ug/l	EPA 62	AI	07/21/06 1137
2,4-Dinitrotoluene	ND	1200	ug/l	EPA 62	AI	07/21/06 1137
2,6-Dinitrotoluene	ND	380	ug/l	EPA 62	AI	07/21/06 1137
2-Chloronaphthalene	ND	380	ug/l	EPA 62	AI	07/21/06 1137
2-Chlorophenol	ND	660	ug/l	EPA 62	AI	07/21/06 1137
2-Fluorobiphenyl (surr.)	diluted out			EPA 62	AI	07/21/06 1137
2-Fluorophenol (surr.)	diluted out			EPA 62	AI	07/21/06 1137
2-Nitrophenol	ND	720	ug/l	EPA 62	AI	07/21/06 1137
3,3'-Dichlorobenzidine	ND	3300	ug/l	EPA 62	AI	07/21/06 1137
4,6-Dinitro-o-cresol	ND	4800	ug/l	EPA 62	AI	07/21/06 1137
4-Bromophenyl phenyl ether	ND	380	ug/l	EPA 62	AI	07/21/06 1137
p-Chloro-m-cresol	ND	600	ug/l	EPA 62	AI	07/21/06 1137
4-Chlorophenyl phenyl ether	ND	840	ug/l	EPA 62	AI	07/21/06 1137
4-Nitrophenol	ND	480	ug/l	EPA 62	AI	07/21/06 1137
Acenaphthene	ND	380	ug/l	EPA 62	AI	07/21/06 1137
Acenaphthylene	ND	700	ug/l	EPA 62	AI	07/21/06 1137
Anthracene	ND	380	ug/l	EPA 62	AI	07/21/06 1137
Benzidine	ND	8800	ug/l	EPA 62	AI	07/21/06 1137
Benzo(a)anthracene	ND	1600	ug/l	EPA 62	AI	07/21/06 1137
Benzo(a)pyrene	ND	500	ug/l	EPA 62	AI	07/21/06 1137
3,4-Benzofluoranthene	ND	960	ug/l	EPA 62	AI	07/21/06 1137
Benzo(g,h,i)perylene	ND	820	ug/l	EPA 62	AI	07/21/06 1137
Benzo(k)fluoranthene	ND	500	ug/l	EPA 62	AI	07/21/06 1137
Bis(2-chloroethoxy)methane	ND	1100	ug/l	EPA 62	AI	07/21/06 1137
Bis(2-chloroethyl)ether	ND	1200	ug/l	EPA 62	AI	07/21/06 1137
Bis(2-chloroisopropyl)ether	ND	1200	ug/l	EPA 62	AI	07/21/06 1137
Bis(2-ethylhexyl)phthalate	ND	500	ug/l	EPA 62	AI	07/21/06 1137
Butylbenzyl phthalate	ND	500	ug/l	EPA 62	AI	07/21/06 1137
Chrysene	ND	500	ug/l	EPA 62	AI	07/21/06 1137
Di-n-butyl phthalate	ND	500	ug/l	EPA 62	AI	07/21/06 1137
Di-n-octyl phthalate	ND	500	ug/l	EPA 62	AI	07/21/06 1137
Dibenz(a,h)anthracene	ND	500	ug/l	EPA 62	AI	07/21/06 1137
Diethyl phthalate	ND	380	ug/l	EPA 62	AI	07/21/06 1137
Dimethyl phthalate	ND	320	ug/l	EPA 62	AI	07/21/06 1137
Fluoranthene	ND	440	ug/l	EPA 62	AI	07/21/06 1137
Fluorene	ND	380	ug/l	EPA 62	AI	07/21/06 1137
Hexachlorobenzene	ND	380	ug/l	EPA 62	AI	07/21/06 1137
Hexachlorobutadiene	ND	180	ug/l	EPA 62	AI	07/21/06 1137
Hexachlorocyclopentadiene	ND	1000	ug/l	EPA 62	AI	07/21/06 1137
Hexachloroethane	ND	320	ug/l	EPA 62	AI	07/21/06 1137
Indeno(1,2,3-cd)pyrene	ND	740	ug/l	EPA 62	AI	07/21/06 1137
Isophorone	ND	440	ug/l	EPA 62	AI	07/21/06 1137
n-Nitrosodi-n-propylamine	ND	170	ug/l	EPA 62	AI	07/21/06 1137
n-Nitrosodimethylamine	ND	200	ug/l	EPA 62	AI	07/21/06 1137
n-Nitrosodiphenylamine	ND	380	ug/l	EPA 62	AI	07/21/06 1137
Naphthalene	ND	320	ug/l	EPA 62	AI	07/21/06 1137
Nitrobenzene	ND	380	ug/l	EPA 62	AI	07/21/06 1137
Nitrobenzene-D5 (surr.)	diluted out			EPA 62	AI	07/21/06 1137
Pentachlorophenol	ND	720	ug/l	EPA 62	AI	07/21/06 1137
Phenanthrene	ND	1100	ug/l	EPA 62	AI	07/21/06 1137
Phenol	ND	300	ug/l	EPA 62	AI	07/21/06 1137
Phenol-D5 (surr.)	diluted out			EPA 62	AI	07/21/06 1137
Pyrene	ND	380	ug/l	EPA 62	AI	07/21/06 1137
Terphenyl-D14 (surr.)	diluted out			EPA 62	AI	07/21/06 1137



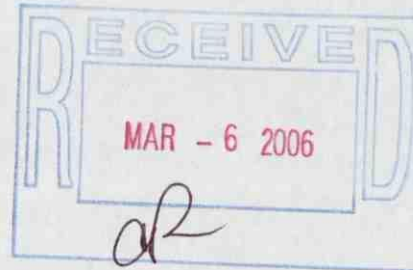


RT  
**NORAC**

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

Customer Service: (800) 786-6722  
Customer Service Fax: (800) 987-0845  
Phone: (870) 572-9061  
Fax: (870) 572-1416

February 13, 2006



Mr. Rufus J. Torrence  
ADEQ NPDES Pretreatment Engineer  
Arkansas Department of Environmental Quality  
8001 National Drive  
PO Box 8913  
Little Rock, AR 72219-8913

Dear Mr. Torrence:

In accordance with 40CFR403.12(e) please find enclosed our most recent monitoring report for the wastewater discharged from our facility in Helena, Arkansas. During the sampling period we were discharging about 170,000 gallons of water per day based on previous monthly use averages.

Please let me know if you have any questions or need any further information.

Sincerely,

*Jeff Wages*  
Jeff Wages  
EHS Coordinator

*Feb 2006 SAR*

Enclosures

*Filedate 20060307*

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

Warren McGrew - Norac  
Robert Summers - Norac



February 13, 2006

Page 2

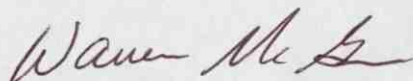
RE: Helena wastewater pretreatment report dated February 13, 2006.

SUBMISSIONS STATEMENT:

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

Submitted by,

Norac, Inc.



Warren McGrew  
Plant Manager



permit limits 0602.xls

	day	month	det lim	
sample date				1/10/2006
sample time				0
location = pond outfall				2
flow (gal/day)				170000
report date				2/13/2006
Benzene	134	57	440	<440
Carbon Tetrachloride	380	142	280	<280
Chlorobenzene	380	142	600	<600
Chloroethane	295	110	870	<870
Chloroform	325	111	160	<160
1,1-Dichloroethane	59	22	470	<470
1,2-Dichloroethane	574	180	280	<280
1,1-Dichloroethene	60	22	280	<280
1,2-Dichloropropane	794	196	600	<600
Ethylbenzene	380	142	720	<720
Methyl Chloride	295	110	780	<780
Methylene Chloride	170	36	1000	<1000
Tetrachloroethene	164	52	410	<410
Toluene	74	28	600	<600
1,1,1-Trichloroethane	59	22	380	<380
1,1,2-Trichloroethane	127	32	500	<500
Trichloroethene	69	26	190	<190
Vinyl Chloride	172	97	640	<640
1,3-Dichloropropene	794	196	130	<130
trans-1,2-Dichloroethene	66	25	160	<160
1,2-Dichlorobenzene	794	196	480	<480
1,3-Dichlorobenzene	380	142	480	<480
1,4-Dichlorobenzene	380	142	1100	<1100
1,2,4-Trichlorobenzene	794	196	480	<480
Hexachlorobenzene	794	196	480	<480
Hexachloroethane	794	196	400	<400
Hexachlorobutadiene	380	142	230	<230
Nitrobenzene	6402	2237	480	<480
2-Nitrophenol	231	65	900	<900
4-Nitrophenol	576	162	600	<600
4,6-Dinitro-o-cresol	277	78	6000	<6000
total Cyanide	1200	420		
total Lead	690	320		
total Zinc mg/l	2610	1050	0.002	0.20
Acenaphthene	47	19	480	<480
Anthracene	47	19	480	<480
Bis(2-ethylhexyl) phthalate	258	95	630	<630
Di-n-butyl phthalate	43	20	630	<630
Diethyl phthalate	113	46	480	<480
Dimethyl phthalate	47	19	400	<21000
Fluoranthene	54	22	550	<550
Fluorene	47	19	480	<480
Naphthalene	47	19	400	<400
Phenanthrene	47	19	1400	<1400
Pyrene	48	20	480	<480
phenol			380	<380

mg/l

mg/l

o-xylene					
all values reported in $\mu\text{g/Liter}$					



# Results Summary

Project # 21662

Parameter	Result	Quantitation		Method	Analyst	Analysis Date
		Limit	Units			
<b>RAS laboratory ID:</b> 12020 <b>Client ID:</b> Pond 2 <b>Sample Description:</b> Water						
<b>Semivolatiles</b>						
1,2,4-Trichlorobenzene	ND	480	ug/l	625	AI	01/12/06 0933
1,2-Dichlorobenzene	ND	480	ug/l	625	AI	01/12/06 0933
1,2-Diphenylhydrazine	ND	2800	ug/l	625	AI	01/12/06 0933
1,3-Dichlorobenzene	ND	480	ug/l	625	AI	01/12/06 0933
1,4-Dichlorobenzene	ND	1100	ug/l	625	AI	01/12/06 0933
2,4,6-Tribromophenol (surr.)	diluted out			625	AI	01/12/06 0933
2,4,6-Trichlorophenol	ND	680	ug/l	625	AI	01/12/06 0933
2,4-Dichlorophenol	ND	680	ug/l	625	AI	01/12/06 0933
2,4-Dimethylphenol	ND	680	ug/l	625	AI	01/12/06 0933
2,4-Dinitrophenol	ND	11000	ug/l	625	AI	01/12/06 0933
2,4-Dinitrotoluene	ND	1500	ug/l	625	AI	01/12/06 0933
2,6-Dinitrotoluene	ND	480	ug/l	625	AI	01/12/06 0933
2-Chloronaphthalene	ND	480	ug/l	625	AI	01/12/06 0933
2-Chlorophenol	ND	830	ug/l	625	AI	01/12/06 0933
2-Fluorobiphenyl (surr.)	diluted out			625	AI	01/12/06 0933
2-Fluorophenol (surr.)	diluted out			625	AI	01/12/06 0933
2-Nitrophenol	ND	900	ug/l	625	AI	01/12/06 0933
3,3'-Dichlorobenzidine	ND	4200	ug/l	625	AI	01/12/06 0933
4,6-Dinitro-o-cresol	ND	6000	ug/l	625	AI	01/12/06 0933
4-Bromophenyl phenyl ether	ND	480	ug/l	625	AI	01/12/06 0933
p-Chloro-m-cresol	ND	750	ug/l	625	AI	01/12/06 0933
4-Chlorophenyl phenyl ether	ND	1100	ug/l	625	AI	01/12/06 0933
4-Nitrophenol	ND	600	ug/l	625	AI	01/12/06 0933
Acenaphthene	ND	480	ug/l	625	AI	01/12/06 0933
Acenaphthylene	ND	880	ug/l	625	AI	01/12/06 0933
Anthracene	ND	480	ug/l	625	AI	01/12/06 0933
Benzidine	ND	11000	ug/l	625	AI	01/12/06 0933
Benzo(a)anthracene	ND	2000	ug/l	625	AI	01/12/06 0933
Benzo(a)pyrene	ND	630	ug/l	625	AI	01/12/06 0933
3,4-Benzofluoranthene	ND	1200	ug/l	625	AI	01/12/06 0933
Benzo(g,h,i)perylene	ND	1100	ug/l	625	AI	01/12/06 0933
Benzo(k)fluoranthene	ND	630	ug/l	625	AI	01/12/06 0933
Bis(2-chloroethoxy)methane	ND	1400	ug/l	625	AI	01/12/06 0933
Bis(2-chloroethyl)ether	ND	1500	ug/l	625	AI	01/12/06 0933
Bis(2-chloroisopropyl)ether	ND	1500	ug/l	625	AI	01/12/06 0933
Bis(2-ethylhexyl)phthalate	ND	630	ug/l	625	AI	01/12/06 0933
Butylbenzyl phthalate	ND	630	ug/l	625	AI	01/12/06 0933
Chrysene	ND	630	ug/l	625	AI	01/12/06 0933
Di-n-butyl phthalate	ND	630	ug/l	625	AI	01/12/06 0933
Di-n-octyl phthalate	ND	630	ug/l	625	AI	01/12/06 0933
Dibenzo(a,h)anthracene	ND	630	ug/l	625	AI	01/12/06 0933
Diethyl phthalate	ND	480	ug/l	625	AI	01/12/06 0933
Dimethyl phthalate	21000	400	ug/l	625	AI	01/12/06 0933
Fluoranthene	ND	550	ug/l	625	AI	01/12/06 0933
Fluorene	ND	480	ug/l	625	AI	01/12/06 0933
Hexachlorobenzene	ND	480	ug/l	625	AI	01/12/06 0933
Hexachlorobutadiene	ND	230	ug/l	625	AI	01/12/06 0933
Hexachlorocyclopentadiene	ND	1300	ug/l	625	AI	01/12/06 0933
Hexachloroethane	ND	400	ug/l	625	AI	01/12/06 0933
Indeno(1,2,3-cd)pyrene	ND	930	ug/l	625	AI	01/12/06 0933
Isophorone	ND	550	ug/l	625	AI	01/12/06 0933
n-Nitrosodi-n-propylamine	ND	210	ug/l	625	AI	01/12/06 0933
n-Nitrosodimethylamine	ND	240	ug/l	625	AI	01/12/06 0933
n-Nitrosodiphenylamine	ND	480	ug/l	625	AI	01/12/06 0933
Naphthalene	ND	400	ug/l	625	AI	01/12/06 0933
Nitrobenzene	ND	480	ug/l	625	AI	01/12/06 0933
Nitrobenzene-D5 (surr.)	diluted out			625	AI	01/12/06 0933
Pentachlorophenol	ND	900	ug/l	625	AI	01/12/06 0933
Phenanthrene	ND	1400	ug/l	625	AI	01/12/06 0933
Phenol	ND	380	ug/l	625	AI	01/12/06 0933
Phenol-D5 (surr.)	diluted out			625	AI	01/12/06 0933
Pyrene	ND	480	ug/l	625	AI	01/12/06 0933
Terphenyl-D14 (surr.)	diluted out			625	AI	01/12/06 0933

# Results Summary

Project # 21662

Parameter	Result	Limit	Units	Method	Analyst	Analysis Date
<b>Quantitation</b>						
<b>RAS laboratory ID:</b> 12015						
<b>Client ID:</b> Pond 2						
<b>Sample Description:</b> Water						
<b>Volatiles</b>						
1,1,1-Trichloroethane	ND	380	ug/l	624	AI	01/13/06 2026
1,1,2,2-Tetrachloroethane	ND	690	ug/l	624	AI	01/13/06 2026
1,1,2-Trichloroethane	ND	500	ug/l	624	AI	01/13/06 2026
1,1-Dichloroethane	ND	470	ug/l	624	AI	01/13/06 2026
1,1-Dichloroethylene	ND	280	ug/l	624	AI	01/13/06 2026
1,2-Dichloroethane	ND	280	ug/l	624	AI	01/13/06 2026
1,2-Dichloropropane	ND	600	ug/l	624	AI	01/13/06 2026
2-Chloroethylvinyl ether	ND	510	ug/l	624	AI	01/13/06 2026
Acrolein	ND	5000	ug/l	624	AI	01/13/06 2026
Acrylonitrile	ND	5000	ug/l	624	AI	01/13/06 2026
Benzene	ND	440	ug/l	624	AI	01/13/06 2026
Dichlorobromomethane	ND	220	ug/l	624	AI	01/13/06 2026
Bromofluorobenzene (surr.)	97		%	624	AI	01/13/06 2026
Bromoform	ND	470	ug/l	624	AI	01/13/06 2026
Carbon tetrachloride	ND	280	ug/l	624	AI	01/13/06 2026
Chlorobenzene	ND	600	ug/l	624	AI	01/13/06 2026
Chloroethane	ND	870	ug/l	624	AI	01/13/06 2026
Chloroform	ND	160	ug/l	624	AI	01/13/06 2026
cis-1,3-Dichloropropylene	ND	500	ug/l	624	AI	01/13/06 2026
Chlorodibromomethane	ND	310	ug/l	624	AI	01/13/06 2026
Dibromofluoromethane (surr.)	100		%	624	AI	01/13/06 2026
Ethylbenzene	ND	720	ug/l	624	AI	01/13/06 2026
Methyl bromide(Bromomethane)	ND	890	ug/l	624	AI	01/13/06 2026
Methyl chloride(Chloromethane)	ND	780	ug/l	624	AI	01/13/06 2026
Methylene chloride	ND	1000	ug/l	624	AI	01/13/06 2026
Tetrachloroethylene	ND	410	ug/l	624	AI	01/13/06 2026
Toluene	ND	600	ug/l	624	AI	01/13/06 2026
Toluene-D8 (surr.)	102		%	624	AI	01/13/06 2026
trans-1,2-Dichloroethylene	ND	160	ug/l	624	AI	01/13/06 2026
trans-1,3-Dichloropropylene	ND	130	ug/l	624	AI	01/13/06 2026
Trichloroethylene	ND	190	ug/l	624	AI	01/13/06 2026
Vinyl chloride	ND	640	ug/l	624	AI	01/13/06 2026
<hr/>						
<b>RAS laboratory ID:</b> 12016						
<b>Client ID:</b> Pond 2						
<b>Sample Description:</b> Water						
BOD 5-day	860	2	mg/l	405.1	AI	01/11/06 1716
Total Suspended Solids	110	4	mg/l	160.2	AI	01/12/06 0932
pH	7.7	-	Units	150.1	AI	01/11/06 1734
<hr/>						
<b>RAS laboratory ID:</b> 12017						
<b>Client ID:</b> Pond 2						
<b>Sample Description:</b> Water						
Oil and Grease	ND	5	mg/l	1664	AI	01/11/06 1705
<hr/>						
<b>RAS laboratory ID:</b> 12018						
<b>Client ID:</b> Pond 2						
<b>Sample Description:</b> Water						
Zinc	0.2	0.002	mg/l	200.7	AI	01/12/06 1024
<hr/>						
<b>RAS laboratory ID:</b> 12019						
<b>Client ID:</b> Pond 2						
<b>Sample Description:</b> Water						
COD	1600	10	mg/l	HACH 8000	AI	01/11/06 1410
Total Kjeldahl Nitrogen	12	1	mg/l	351.3	AI	01/16/06 0842
Total Phosphorus	2.4	0.02	mg/l	SM 4500-PBE	AI	01/13/06 0756



**Quality Control Summary**  
(Part C)

Parameter	Result	Det.	Units	Method	Analysis Date	Sample	Project : 21662	
							Result	Batch
Oil and Grease	ND	5	mg/l	1664	01/11/06 1506	B	REG	B3786
1,2,4-Trichlorobenzene	ND	1.9	ug/l	625	01/12/06 0933	B	REG	B3787
1,2-Dichlorobenzene	ND	1.9	ug/l	625	01/12/06 0933	B	REG	B3787
1,2-Diphenylhydrazine	ND	11	ug/l	625	01/12/06 0933	B	REG	B3787
1,3-Dichlorobenzene	ND	1.9	ug/l	625	01/12/06 0933	B	REG	B3787
1,4-Dichlorobenzene	ND	4.4	ug/l	625	01/12/06 0933	B	REG	B3787
2,4,6-Tribromophenol (surr.)	81		%	625	01/12/06 0933	B	SURR	B3787
2,4,6-Trichlorophenol	ND	2.7	ug/l	625	01/12/06 0933	B	REG	B3787
2,4-Dichlorophenol	ND	2.7	ug/l	625	01/12/06 0933	B	REG	B3787
2,4-Dimethylphenol	ND	2.7	ug/l	625	01/12/06 0933	B	REG	B3787
2,4-Dinitrophenol	ND	42	ug/l	625	01/12/06 0933	B	REG	B3787
2,4-Dinitrotoluene	ND	5.7	ug/l	625	01/12/06 0933	B	REG	B3787
2,6-Dinitrotoluene	ND	1.9	ug/l	625	01/12/06 0933	B	REG	B3787
2-Chloronaphthalene	ND	1.9	ug/l	625	01/12/06 0933	B	REG	B3787
2-Chlorophenol	ND	3.3	ug/l	625	01/12/06 0933	B	REG	B3787
2-Fluorobiphenyl (surr.)	77		%	625	01/12/06 0933	B	SURR	B3787
2-Fluorophenol (surr.)	59		%	625	01/12/06 0933	B	SURR	B3787
2-Nitrophenol	ND	3.6	ug/l	625	01/12/06 0933	B	REG	B3787
3,3'-Dichlorobenzidine	ND	16.5	ug/l	625	01/12/06 0933	B	REG	B3787
4,6-Dinitro-o-cresol	ND	24	ug/l	625	01/12/06 0933	B	REG	B3787
4-Bromophenyl phenyl ether	ND	1.9	ug/l	625	01/12/06 0933	B	REG	B3787
p-Chloro-m-cresol	ND	3	ug/l	625	01/12/06 0933	B	REG	B3787
4-Chlorophenyl phenyl ether	ND	4.2	ug/l	625	01/12/06 0933	B	REG	B3787
4-Nitrophenol	ND	2.4	ug/l	625	01/12/06 0933	B	REG	B3787
Acenaphthene	ND	1.9	ug/l	625	01/12/06 0933	B	REG	B3787
Acenaphthylene	ND	3.5	ug/l	625	01/12/06 0933	B	REG	B3787
Anthracene	ND	1.9	ug/l	625	01/12/06 0933	B	REG	B3787
Benzidine	ND	44	ug/l	625	01/12/06 0933	B	REG	B3787
Benzo(a)anthracene	ND	7.8	ug/l	625	01/12/06 0933	B	REG	B3787
Benzo(a)pyrene	ND	2.5	ug/l	625	01/12/06 0933	B	REG	B3787
3,4-Benzofluoranthene	ND	4.8	ug/l	625	01/12/06 0933	B	REG	B3787
Benzo(g,h,i)perylene	ND	4.1	ug/l	625	01/12/06 0933	B	REG	B3787
Benzo(k)fluoranthene	ND	2.5	ug/l	625	01/12/06 0933	B	REG	B3787
Bis(2-chloroethoxy)methane	ND	5.3	ug/l	625	01/12/06 0933	B	REG	B3787
Bis(2-chloroethyl)ether	ND	5.7	ug/l	625	01/12/06 0933	B	REG	B3787
Bis(2-chloroisopropyl)ether	ND	5.7	ug/l	625	01/12/06 0933	B	REG	B3787
Bis(2-ethylhexyl)phthalate	ND	2.5	ug/l	625	01/12/06 0933	B	REG	B3787
Butylbenzyl phthalate	ND	2.5	ug/l	625	01/12/06 0933	B	REG	B3787
Chrysene	ND	2.5	ug/l	625	01/12/06 0933	B	REG	B3787
Di-n-butyl phthalate	ND	2.5	ug/l	625	01/12/06 0933	B	REG	B3787
Di-n-octyl phthalate	ND	2.5	ug/l	625	01/12/06 0933	B	REG	B3787
Dibenzo(a,h)anthracene	ND	2.5	ug/l	625	01/12/06 0933	B	REG	B3787
Diethyl phthalate	ND	1.9	ug/l	625	01/12/06 0933	B	REG	B3787
Dimethyl phthalate	ND	1.6	ug/l	625	01/12/06 0933	B	REG	B3787
Fluoranthene	ND	2.2	ug/l	625	01/12/06 0933	B	REG	B3787
Fluorene	ND	1.9	ug/l	625	01/12/06 0933	B	REG	B3787
Hexachlorobenzene	ND	1.9	ug/l	625	01/12/06 0933	B	REG	B3787
Hexachlorobutadiene	ND	0.9	ug/l	625	01/12/06 0933	B	REG	B3787
Hexachlorocyclopentadiene	ND	5	ug/l	625	01/12/06 0933	B	REG	B3787
Hexachloroethane	ND	1.6	ug/l	625	01/12/06 0933	B	REG	B3787
Indeno(1,2,3-cd)pyrene	ND	3.7	ug/l	625	01/12/06 0933	B	REG	B3787
Isophorone	ND	2.2	ug/l	625	01/12/06 0933	B	REG	B3787
n-Nitrosodi-n-propylamine	ND	0.84	ug/l	625	01/12/06 0933	B	REG	B3787
n-Nitrosodimethylamine	ND	0.96	ug/l	625	01/12/06 0933	B	REG	B3787
n-Nitrosodiphenylamine	ND	1.9	ug/l	625	01/12/06 0933	B	REG	B3787
Naphthalene	ND	1.6	ug/l	625	01/12/06 0933	B	REG	B3787
Nitrobenzene	ND	1.9	ug/l	625	01/12/06 0933	B	REG	B3787
Nitrobenzene-D5 (surr.)	79		%	625	01/12/06 0933	B	SURR	B3787
Pentachlorophenol	ND	3.6	ug/l	625	01/12/06 0933	B	REG	B3787
Phenanthrene	ND	5.4	ug/l	625	01/12/06 0933	B	REG	B3787
Phenol	ND	1.5	ug/l	625	01/12/06 0933	B	REG	B3787
Phenol-D5 (surr.)	43		%	625	01/12/06 0933	B	SURR	B3787
Pyrene	ND	1.9	ug/l	625	01/12/06 0933	B	REG	B3787
Terphenyl-D14 (surr.)	86		%	625	01/12/06 0933	B	SURR	B3787
Zinc	ND	0.002	mg/l	200.7	01/12/06 1024	B	REG	S17362
BOD 5-day	ND	2	mg/l	405.1	01/11/06 1408	B	REG	W15724
COD	ND	10	mg/l	HACH 8000	01/11/06 1412	B	REG	W15725
Total Suspended Solids	ND	4	mg/l	160.2	01/12/06 0933	B	REG	W15733
Total Phosphorus	ND	0.02	mg/l	SM 4500-PBE	01/13/06 0756	B	REG	W15748
Total Kjeldahl Nitrogen	ND	1	mg/l	351.3	01/16/06 0842	B	REG	W15760
1,1,1-Trichloroethane	ND	3.8	ug/l	624	01/13/06 1833	B	REG	V5550
1,1,2,2-Tetrachloroethane	ND	6.9	ug/l	624	01/13/06 1833	B	REG	V5550

**NOTES:**

Q - lab control QD - lab control dup S - spike SD - spike dup B - blank D - duplicate SURR - surrogate

**Quality Control Summary**  
(Part C)

Parameter	Result	Det.	Units	Method	Analysis Date	Sample	Result	Batch
1,1,2-Trichloroethane	ND	5	ug/l	624	01/13/06 1833	B	REG	V5550
1,1-Dichloroethane	ND	4.7	ug/l	624	01/13/06 1833	B	REG	V5550
1,1-Dichloroethylene	ND	2.8	ug/l	624	01/13/06 1833	B	REG	V5550
1,2-Dichloroethane	ND	2.8	ug/l	624	01/13/06 1833	B	REG	V5550
1,2-Dichloropropane	ND	6	ug/l	624	01/13/06 1833	B	REG	V5550
2-Chloroethylvinyl ether	ND	5.1	ug/l	624	01/13/06 1833	B	REG	V5550
Acrolein	ND	50	ug/l	624	01/13/06 1833	B	REG	V5550
Acrylonitrile	ND	50	ug/l	624	01/13/06 1833	B	REG	V5550
Benzene	ND	4.4	ug/l	624	01/13/06 1833	B	REG	V5550
Dichlorobromomethane	ND	2.2	ug/l	624	01/13/06 1833	B	REG	V5550
Bromofluorobenzene (surr.)	96		%	624	01/13/06 1833	B	SURR	V5550
Bromoform	ND	4.7	ug/l	624	01/13/06 1833	B	REG	V5550
Carbon tetrachloride	ND	2.8	ug/l	624	01/13/06 1833	B	REG	V5550
Chlorobenzene	ND	6	ug/l	624	01/13/06 1833	B	REG	V5550
Chloroethane	ND	8.7	ug/l	624	01/13/06 1833	B	REG	V5550
Chloroform	ND	1.6	ug/l	624	01/13/06 1833	B	REG	V5550
cis-1,3-Dichloropropylene	ND	5	ug/l	624	01/13/06 1833	B	REG	V5550
Chlorodibromomethane	ND	3.1	ug/l	624	01/13/06 1833	B	REG	V5550
Dibromofluoromethane (surr.)	100		%	624	01/13/06 1833	B	SURR	V5550
Ethylbenzene	ND	7.2	ug/l	624	01/13/06 1833	B	REG	V5550
Methyl bromide(Bromomethane)	ND	8.9	ug/l	624	01/13/06 1833	B	REG	V5550
Methyl chloride(Chloromethane)	ND	7.8	ug/l	624	01/13/06 1833	B	REG	V5550
Methylene chloride	ND	10	ug/l	624	01/13/06 1833	B	REG	V5550
Tetrachloroethylene	ND	4.1	ug/l	624	01/13/06 1833	B	REG	V5550
Toluene	ND	6	ug/l	624	01/13/06 1833	B	REG	V5550
Toluene-D8 (surr.)	99		%	624	01/13/06 1833	B	SURR	V5550
trans-1,2-Dichloroethylene	ND	1.6	ug/l	624	01/13/06 1833	B	REG	V5550
trans-1,3-Dichloropropylene	ND	1.3	ug/l	624	01/13/06 1833	B	REG	V5550
Trichloroethylene	ND	1.9	ug/l	624	01/13/06 1833	B	REG	V5550
Vinyl chloride	ND	6.4	ug/l	624	01/13/06 1833	B	REG	V5550
Oil and Grease	101		%	1664	01/11/06 1506	Q	REC	B3786
Oil and Grease	100		%	1664	01/11/06 1506	Q	REC	B3786
Oil and Grease	2		%	1664	01/11/06 1506	Q	RPD	B3786
1,2,4-Trichlorobenzene	81		%	625	01/12/06 0933	Q	REC	B3787
1,2-Dichlorobenzene	75		%	625	01/12/06 0933	Q	REC	B3787
1,2-Diphenylhydrazine	74		%	625	01/12/06 0933	Q	REC	B3787
1,3-Dichlorobenzene	71		%	625	01/12/06 0933	Q	REC	B3787
1,4-Dichlorobenzene	71		%	625	01/12/06 0933	Q	REC	B3787
2,4,6-Tribromophenol	86		%	625	01/12/06 0933	Q	SURR	B3787
2,4,6-Trichlorophenol	86		%	625	01/12/06 0933	Q	REC	B3787
2,4-Dichlorophenol	88		%	625	01/12/06 0933	Q	REC	B3787
2,4-Dimethylphenol	80		%	625	01/12/06 0933	Q	REC	B3787
2,4-Dinitrophenol	89		%	625	01/12/06 0933	Q	REC	B3787
2,4-Dinitrotoluene	92		%	625	01/12/06 0933	Q	REC	B3787
2,6-Dinitrotoluene	85		%	625	01/12/06 0933	Q	REC	B3787
2-Chloronaphthalene	83		%	625	01/12/06 0933	Q	REC	B3787
2-Chlorophenol	90		%	625	01/12/06 0933	Q	REC	B3787
2-Fluorobiphenyl	91		%	625	01/12/06 0933	Q	SURR	B3787
2-Fluorophenol	61		%	625	01/12/06 0933	Q	SURR	B3787
2-Nitrophenol	93		%	625	01/12/06 0933	Q	REC	B3787
4,6-Dinitro-o-cresol	89		%	625	01/12/06 0933	Q	REC	B3787
4-Bromophenyl phenyl ether	88		%	625	01/12/06 0933	Q	REC	B3787
p-Chloro-m-cresol	85		%	625	01/12/06 0933	Q	REC	B3787
4-Chlorophenyl phenyl ether	87		%	625	01/12/06 0933	Q	REC	B3787
4-Nitrophenol	48		%	625	01/12/06 0933	Q	REC	B3787
Acenaphthene	83		%	625	01/12/06 0933	Q	REC	B3787
Acenaphthylene	82		%	625	01/12/06 0933	Q	REC	B3787
Anthracene	80		%	625	01/12/06 0933	Q	REC	B3787
Benzo(a)anthracene	88		%	625	01/12/06 0933	Q	REC	B3787
Benzo(a)pyrene	84		%	625	01/12/06 0933	Q	REC	B3787
3,4-Benzofluoranthene	84		%	625	01/12/06 0933	Q	REC	B3787
Benzo(g,h,i)perylene	87		%	625	01/12/06 0933	Q	REC	B3787
Benzo(k)fluoranthene	82		%	625	01/12/06 0933	Q	REC	B3787
Bis(2-chloroethoxy)methane	85		%	625	01/12/06 0933	Q	REC	B3787
Bis(2-chloroethyl)ether	83		%	625	01/12/06 0933	Q	REC	B3787
Bis(2-chloroisopropyl)ether	75		%	625	01/12/06 0933	Q	REC	B3787
Bis(2-ethylhexyl)phthalate	79		%	625	01/12/06 0933	Q	REC	B3787
Butylbenzyl phthalate	79		%	625	01/12/06 0933	Q	REC	B3787
Chrysene	83		%	625	01/12/06 0933	Q	REC	B3787
Di-n-butyl phthalate	88		%	625	01/12/06 0933	Q	REC	B3787
Di-n-octyl phthalate	80		%	625	01/12/06 0933	Q	REC	B3787
Dibenzo(a,h)anthracene	88		%	625	01/12/06 0933	Q	REC	B3787
Diethyl phthalate	88		%	625	01/12/06 0933	Q	REC	B3787

NOTES:

Q - lab control    QD - lab control dup    S - spike    SD - spike dup    B - blank    D - duplicate    SURR - surrogate