



Premier
Laboratory, Inc

61 Louisa Viens Drive
Dayville, CT 06241
Fax: 860-774-2689
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Toll-Free: 800-334-0103

ANALYTICAL DATA REPORT

prepared for:

Fairfield Engineering Dept.
725 Old Post Road
Fairfield, CT 06824
Christopher Rogers

Report Number: E012064
Project: Stormwater Analysis

Received Date: 12/02/2010
Report Date: 12/14/2010

Premier Laboratory, Inc
Authorized Signature



Certified and Compliant with:

CT (PH-0465), EPA (CT00008), MA (M-CT008), ME (CT0050), NH (2020), NJ (CT007), NY (11549), PA (68-04413), RI (LAO00300), UCMR2 (CT00008), VT (VT11549)



101-000000294008



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Report No: E012064
Client: Fairfield Wastewater
Project: Stormwater Analysis

CASE NARRATIVE / METHOD CONFORMANCE SUMMARY

Premier Laboratory, Inc received six samples from Fairfield Wastewater on 12/02/2010. The samples were analyzed for the following list of analyses:

Client Reported pH
150.1

Industrial Activity Stormwater
150.1, 1664[1664], 200.7[3000], 350.1[351.1], 365.1[365.1],
SM2540D, SM4500-NO3-F, SM5220-D

Non-Conformances:

Work Order:

None

Sample:

None

Analysis:

None

Premier Laboratory, Inc

Analytical Data Report

Report No: E012064
Date Received: 12/02/2010 16:39

Customer: Fairfield Wastewater
Project: Stormwater Analysis

Parameter	Result	DL	Units	Completed	By	Dilution
(1) DPW #1						
Date Collected: 12/01/2010 12:30		Matrix: Aqueous				
COD by SM5220-D/Hach 8000	180	1.0	mg/L	12/06/2010 11:30	DCH	
Client Reported pH	5.3		pH Units	12/01/2010 12:30	FWW	
Kjeldahl Nitrogen, Total (TKN) by 351.1	2.1	0.50	mg/L	12/10/2010 15:00	K H	
Nitrate as N by SM4500-NO3 F	0.21	0.10	mg/l	12/02/2010 18:30	K H	
Oil & Grease by 1664A	14	5.0	mg/L	12/06/2010 11:29	JHF	
Phosphorus as P by 365.1	0.36	0.020	mg/L	12/09/2010 10:23	DCH	
Solids, Suspended (TSS) by SM2540D	180	1.0	mg/L	12/03/2010 13:45	AEB	
pH by 150.1	7.3		pH Units	12/02/2010 20:40	KC	
Metals by ICP by 200.7						
Copper	0.040	0.0020	mg/L	12/06/2010 11:43	KL	
Lead	0.037	0.0020	mg/L	12/06/2010 11:43	KL	
Zinc	0.17	0.0020	mg/L	12/06/2010 11:43	KL	
(2) DPW #2						
Date Collected: 12/01/2010 12:45		Matrix: Aqueous				
COD by SM5220-D/Hach 8000	230	1.0	mg/L	12/06/2010 11:30	DCH	
Client Reported pH	5.3		pH Units	12/01/2010 12:45	FWW	
Kjeldahl Nitrogen, Total (TKN) by 351.1	3.4	0.50	mg/L	12/10/2010 15:00	K H	
Nitrate as N by SM4500-NO3 F	1.2	0.10	mg/l	12/02/2010 18:30	K H	
Oil & Grease by 1664A	5.5	5.0	mg/L	12/06/2010 11:29	JHF	
Phosphorus as P by 365.1	0.18	0.020	mg/L	12/09/2010 10:23	DCH	
Solids, Suspended (TSS) by SM2540D	20	1.0	mg/L	12/03/2010 13:45	AEB	
pH by 150.1	6.7		pH Units	12/02/2010 20:40	KC	
Metals by ICP by 200.7						
Copper	0.0058	0.0020	mg/L	12/06/2010 11:45	KL	
Lead	0.0043	0.0020	mg/L	12/06/2010 11:45	KL	
Zinc	0.042	0.0020	mg/L	12/06/2010 11:45	KL	
(3) DPW #3						
Date Collected: 12/01/2010 13:00		Matrix: Aqueous				
COD by SM5220-D/Hach 8000	740	1.0	mg/L	12/06/2010 11:30	DCH	
Client Reported pH	5.3		pH Units	12/01/2010 13:00	FWW	
Kjeldahl Nitrogen, Total (TKN) by 351.1	8.6	0.50	mg/L	12/10/2010 15:00	K H	
Nitrate as N by SM4500-NO3 F	1.6	0.10	mg/l	12/02/2010 18:30	K H	
Oil & Grease by 1664A	8.5	5.0	mg/L	12/06/2010 11:29	JHF	
Phosphorus as P by 365.1	1.4	0.020	mg/L	12/09/2010 10:23	DCH	
Solids, Suspended (TSS) by SM2540D	3100	1.0	mg/L	12/06/2010 16:45	AEB	
pH by 150.1	8.0		pH Units	12/02/2010 20:40	KC	
Metals by ICP by 200.7						
Copper	0.14	0.0020	mg/L	12/06/2010 11:47	KL	
Lead	0.26	0.0020	mg/L	12/06/2010 11:47	KL	
Zinc	0.37	0.0020	mg/L	12/06/2010 11:47	KL	

Premier Laboratory, Inc

Analytical Data Report

Report No: E012064
Date Received: 12/02/2010 16:39

Customer: Fairfield Wastewater
Project: Stormwater Analysis

Parameter	Result	DL	Units	Completed	By	Dilution
(4) Ground Products #1						
Date Collected: 12/01/2010 13:45		Matrix: Aqueous				
COD by SM5220-D/Hach 8000	510	1.0	mg/L	12/06/2010 11:30	DCH	
Client Reported pH	5.3		pH Units	12/01/2010 13:45	FWW	
Kjeldahl Nitrogen, Total (TKN) by 351.1	7.0	0.50	mg/L	12/10/2010 15:00	K H	
Nitrate as N by SM4500-NO3 F	ND	0.10	mg/l	12/02/2010 18:30	K H	
Oil & Grease by 1664A	9.0	5.0	mg/L	12/06/2010 11:29	JHF	
Phosphorus as P by 365.1	2.0	0.10	mg/L	12/09/2010 10:23	DCH	5
Solids, Suspended (TSS) by SM2540D	240	1.0	mg/L	12/06/2010 16:45	AEB	
pH by 150.1	7.0		pH Units	12/02/2010 20:40	KC	
Metals by ICP by 200.7						
Copper	0.050	0.0020	mg/L	12/06/2010 12:03	KL	
Lead	0.028	0.0020	mg/L	12/06/2010 12:03	KL	
Zinc	0.24	0.0020	mg/L	12/06/2010 12:03	KL	
(5) Ground Products #2						
Date Collected: 12/01/2010 13:15		Matrix: Aqueous				
COD by SM5220-D/Hach 8000	1900	10	mg/L	12/06/2010 11:30	DCH	10
Client Reported pH	5.3		pH Units	12/01/2010 13:15	FWW	
Kjeldahl Nitrogen, Total (TKN) by 351.1	37	1.5	mg/L	12/13/2010 12:49	DCH	3
Nitrate as N by SM4500-NO3 F	0.29	0.10	mg/l	12/02/2010 18:30	K H	
Oil & Grease by 1664A	7.5	5.0	mg/L	12/06/2010 11:29	JHF	
Phosphorus as P by 365.1	11	0.20	mg/L	12/09/2010 10:23	DCH	10
Solids, Suspended (TSS) by SM2540D	1200	1.0	mg/L	12/06/2010 16:45	AEB	
pH by 150.1	6.7		pH Units	12/02/2010 20:40	KC	
Metals by ICP by 200.7						
Copper	0.28	0.0020	mg/L	12/06/2010 12:05	KL	
Lead	0.17	0.0020	mg/L	12/06/2010 12:05	KL	
Zinc	0.78	0.0020	mg/L	12/06/2010 12:05	KL	
(6) WPCF #3						
Date Collected: 12/01/2010 13:30		Matrix: Aqueous				
COD by SM5220-D/Hach 8000	20	1.0	mg/L	12/06/2010 11:30	DCH	
Client Reported pH	5.3		pH Units	12/01/2010 13:30	FWW	
Kjeldahl Nitrogen, Total (TKN) by 351.1	ND	0.50	mg/L	12/13/2010 12:49	DCH	
Nitrate as N by SM4500-NO3 F	0.23	0.10	mg/l	12/02/2010 18:30	K H	
Oil & Grease by 1664A	ND	2.0	mg/L	12/06/2010 11:29	JHF	
Phosphorus as P by 365.1	0.025	0.020	mg/L	12/09/2010 10:23	DCH	
Solids, Suspended (TSS) by SM2540D	7.0	1.0	mg/L	12/06/2010 16:45	AEB	
pH by 150.1	6.8		pH Units	12/02/2010 20:40	KC	
Metals by ICP by 200.7						
Copper	0.024	0.0020	mg/L	12/06/2010 12:07	KL	
Lead	ND	0.0020	mg/L	12/06/2010 12:07	KL	
Zinc	0.20	0.0020	mg/L	12/06/2010 12:07	KL	

New England Bioassay, a Division of GZA GeoEnvironmental, Inc.
www.nebio.com

Stormwater Monitoring Report (SMR) Instruction Form (Aquatic Toxicity):

Client Name/Project: Premier/SW Test Date: 12/2/10

Sample ID #1: E012064-1
Sample ID #2: E012064-2
Sample ID #3: E012064-3
Sample ID #4: E012064-4



New England Bioassay
a Division of GZA GeoEnvironmental, Inc.

77 Batson Drive
Manchester, CT
06042
860-643-9560
FAX 860-646-7169

Your results were as follows:

Sample 1 2 3 4
 Met Performance Criteria (i.e. 48 hour LC50 \geq 50% permit guideline)
 Did Not meet Performance Criteria (i.e. 48 hour LC50 < 50% permit guideline)
 Invalid - _____

Please complete the items on this bulleted list prior to submission of these data to the CTDEP:

- Complete the "Facility Information" section on page one of the SMR. Don't forget to check the box at the bottom of the section if your facility has 25 employees or less or is operated by a municipality.
- Complete the "Sampling Information" section on page one of the SMR. If you failed to record them, the storm magnitude and the date of the previous storm event may be found at www.weather.com. Enter your zip code or city name in the box in the center of the screen and select "go". Re-select your city if necessary. Select the "Month" tab in the yellow row of options (far right). Select the month you are interested in by using the "previous month" and "next month" options at the top of the calendar. The bottom entry in the square for each date is the precipitation in inches in that city on that date.
- Complete the "Monitoring Results" section on page one of the SMR. Don't forget to include the units in the results section (e.g. 0.1 mg/L).
- An authorized official from your facility must sign the "Statement of Acknowledgment" section at the bottom of page one of the SMR.

Please detach this instruction form and the Chain-of-Custody and keep for your records. Within 90 days of your sample collection date (but no later than December 31st of the monitoring year), file the completed 2-page form as follows:

- The completed 2-page SMR must be sent to the Bureau of Water Management at the following address:

Water Toxics Program Coordinator
Connecticut Department of Environmental Protection
Bureau of Water Management
79 Elm St.
Hartford, CT 06106-5127



GZA GeoEnvironmental, Inc. Please contact Kim Wills, Lab Supervisor at (860) 858-3153 or kimberly.wills@gza.com

Stormwater Monitoring Report (SMR) Instruction Form (Aquatic Toxicity):

Client Name/Project: Premier/SW Test Date: 12/2/10

Sample ID #5: E012064-5
Sample ID #6: E012064-6
Sample ID #7: _____
Sample ID #8: _____



New England Bioassay
a Division of GZA GeoEnvironmental, Inc.

77 Bason Drive
Manchester, CT
06012
860-643-9560
FAX 860-646-7169

Your results were as follows:

Sample 5 6 7 8
 Met Performance Criteria (i.e. 48 hour LC50 \geq 50% permit guideline)
 Did Not meet Performance Criteria (i.e. 48 hour LC50 < 50% permit guideline)
 Invalid - _____

Please complete the items on this bulleted list prior to submission of these data to the CTDEP:

- Complete the "Facility Information" section on page one of the SMR. Don't forget to check the box at the bottom of the section if your facility has 25 employees or less or is operated by a municipality.
- Complete the "Sampling Information" section on page one of the SMR. If you failed to record them, the storm magnitude and the date of the previous storm event may be found at www.weather.com. Enter your zip code or city name in the box in the center of the screen and select "go". Re-select your city if necessary. Select the "Month" tab in the yellow row of options (far right). Select the month you are interested in by using the "previous month" and "next month" options at the top of the calendar. The bottom entry in the square for each date is the precipitation in inches in that city on that date.
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Water Toxics Program Coordinator
Connecticut Department of Environmental Protection
Bureau of Water Management
79 Elm St.
Hartford, CT 06106-5127





General Permit for the Discharge of Stormwater Associated with Industrial Activities

Stormwater Monitoring Report Form

Facility Information

Name (owner, operator): **Fairfield Engineering Department**

Mailing Address:

Business Phone: _____ ext. _____ Fax: _____

Contact Person: _____ Title: _____

Site Address:

Receiving Water (name, basin):

Stormwater G.P. Registration # *GS/* _____ SIC Code: _____

Check this box if the number of employees is 25 or less, or if operated by a municipality:

Sampling Information

Sample Location: **DPW #1, 2010 Stormwater (Premier ID #E012064)**

Collected: Date: **12/1/2010** Time: **12:30**

Person Collecting Sample:

Storm Magnitude (inches): _____ Storm Duration (hours): _____

Date of Previous Storm Event: _____ Rainfall pH: **5.3**

Monitoring Results

Parameter	Method	Results (units)	Laboratory
Oil & Grease	1664A	14 mg/L	Premier Laboratory, Inc
pH	150.1	7.3 units	Premier Laboratory, Inc
COD	SM5220D	180 mg/L	Premier Laboratory, Inc
TSS	SM2540D	180 mg/L	Premier Laboratory, Inc
TP	365.1	0.36 mg/L	Premier Laboratory, Inc
TKN	351.1	2.1 mg/L	Premier Laboratory, Inc
NO ₃ -N	SM4500-NO3 F	0.21 mg/L	Premier Laboratory, Inc
Total Copper	200.7	0.040 mg/L	Premier Laboratory, Inc
Total Zinc	200.7	0.17 mg/L	Premier Laboratory, Inc
Total Lead	200.7	0.037 mg/L	Premier Laboratory, Inc
24-Hour LC ₅₀	EPA 821-R-02	>100%	New England Bioassy
48-Hour LC ₅₀	EPA 821-R-02	>100%	New England Bioassy

Attach separate page(s) to report additional parameters monitored pursuant to Part VI.C.1.a of the general permit.

Statement of Acknowledgment

"I certify that the data reported on this document were prepared under my direction or supervision in accordance with the Stormwater General Permit. The information submitted is, to the best of my knowledge and belief, true, accurate and complete."

Name of Authorized Facility Official (print or type) _____ Title (if applicable) _____

Signature of Authorized Facility Official _____ Date _____

STORMWATER ACUTE TOXICITY TEST DATA SHEET

Sample Source: Premier E012064-1	
Date/Time Begin: 12/2/2010 1600	Date/Time End: 12/4/2010 1500
Sample Hardness (mg/L): 52	Sample Conductivity (µS) : 1718
Test Species: <i>Daphnia pulex</i> < 24 hrs old	Dilution Water Hardness (mg/L): 46

Effluent Dilution	Number of Organisms Surviving			Dissolved Oxygen (mg/L)			Temperature (°C)			pH (su)		
	Hour	00	24	48	00	24	48	00	24	48	00	24
CONTROL 1	5	5	5	8.7	8.6	9.7	19	19	19	7.3	7.4	7.5
CONTROL 2	5	5	5	8.7	8.6	9.7	19	19	19	7.3	7.4	7.5
CONTROL 3	5	5	5	8.7	8.6	9.7	19	19	19	7.3	7.4	7.5
CONTROL 4	5	5	5	8.7	8.6	9.7	19	19	19	7.3	7.4	7.5
6.25% A	5	5	5	8.6	8.9	9.5	20	19	19	7.4	7.5	7.4
6.25% B	5	5	5	8.6	8.9	9.5	20	19	19	7.4	7.5	7.4
6.25% C	5	5	5	8.6	8.9	9.5	20	19	19	7.4	7.5	7.4
6.25% D	5	5	5	8.6	8.9	9.5	20	19	19	7.4	7.5	7.4
12.5% A	5	5	5	8.4	8.9	9.5	20	19	19	7.4	7.5	7.5
12.5% B	5	5	5	8.4	8.9	9.5	20	19	19	7.4	7.5	7.5
12.5% C	5	5	5	8.4	8.9	9.5	20	19	19	7.4	7.5	7.5
12.5% D	5	5	5	8.4	8.9	9.5	20	19	19	7.4	7.5	7.5
25% A	5	5	5	8.4	9.0	9.5	20	19	19	7.5	7.5	7.5
25% B	5	5	5	8.4	9.0	9.5	20	19	19	7.5	7.5	7.5
25% C	5	5	4	8.4	9.0	9.5	20	19	19	7.5	7.5	7.5
25% D	5	5	5	8.4	9.0	9.5	20	19	19	7.5	7.5	7.5
50% A	5	5	5	8.4	8.9	9.5	20	19	19	7.5	7.5	7.5
50% B	5	5	5	8.4	8.9	9.5	20	19	19	7.5	7.5	7.5
50% C	5	5	5	8.4	8.9	9.5	20	19	19	7.5	7.5	7.5
50% D	5	5	5	8.4	8.9	9.5	20	19	19	7.5	7.5	7.5
100% A	5	5	5	9.4	8.8	9.4	19	19	19	7.7	7.6	7.5
100% B	5	5	5	9.4	8.8	9.4	19	19	19	7.7	7.6	7.5
100% C	5	5	5	9.4	8.8	9.4	19	19	19	7.7	7.6	7.5
100% D	5	5	5	9.4	8.8	9.4	19	19	19	7.7	7.6	7.5

REFERENCE TOXICANT RESULTS

Test Species	Date	Reference Toxicant	Source	LC50
<i>Daphnia pulex</i>	12/1/10	CuNO3# 12-1-10	NEB	2.541 µg/L

Please send completed form to: WATER TOXICS PROGRAM COORDINATOR
 CT DEPARTMENT OF ENVIRONMENTAL PROTECTION
 BUREAU OF WATER MANAGEMENT
 79 ELM STREET
 HARTFORD, CT 06106-5127



General Permit for the Discharge of Stormwater Associated with Industrial Activities

Stormwater Monitoring Report Form

Facility Information

Name (owner, operator): **Fairfield Engineering Department**

Mailing Address:

Business Phone: _____ ext. _____ Fax: _____

Contact Person: _____ Title: _____

Site Address:

Receiving Water (name, basin):

Stormwater G.P. Registration # *GS/* _____ SIC Code: _____

Check this box if the number of employees is 25 or less, or if operated by a municipality:

Sampling Information

Sample Location: **DPW #2, 2010 Stormwater (Premier ID #E012064)**

Collected: _____ Date: **12/1/2010** Time: **12:45**

Person Collecting Sample:

Storm Magnitude (inches): _____ Storm Duration (hours): _____

Date of Previous Storm Event: _____ Rainfall pH: **5.3**

Monitoring Results

Parameter	Method	Results (units)	Laboratory
Oil & Grease	1664A	5.5 mg/L	Premier Laboratory, Inc
pH	150.1	6.7 units	Premier Laboratory, Inc
COD	SM5220D	230 mg/L	Premier Laboratory, Inc
TSS	SM2540D	20 mg/L	Premier Laboratory, Inc
TP	365.1	0.18 mg/L	Premier Laboratory, Inc
TKN	351.1	3.4 mg/L	Premier Laboratory, Inc
NO ₃ -N	SM4500-NO3 F	1.2 mg/L	Premier Laboratory, Inc
Total Copper	200.7	0.0058 mg/L	Premier Laboratory, Inc
Total Zinc	200.7	0.42 mg/L	Premier Laboratory, Inc
Total Lead	200.7	0.0043 mg/L	Premier Laboratory, Inc
24-Hour LC ₅₀	EPA 821-R-02	70.7%	New England Bioassy
48-Hour LC ₅₀	EPA 821-R-02	66.0%	New England Bioassy

Attach separate page(s) to report additional parameters monitored pursuant to Part VI.C.1.a of the general permit.

Statement of Acknowledgment

"I certify that the data reported on this document were prepared under my direction or supervision in accordance with the Stormwater General Permit. The information submitted is, to the best of my knowledge and belief, true, accurate and complete."

Name of Authorized Facility Official (print or type) _____ Title (if applicable) _____

Signature of Authorized Facility Official _____ Date _____

STORMWATER ACUTE TOXICITY TEST DATA SHEET

Sample Source: Premier E012064-2	
Date/Time Begin: 12/2/2010 1605	Date/Time End: 12/4/2010 1505
Sample Hardness (mg/L): 2000	Sample Conductivity (µS) : 12790
Test Species: <i>Daphnia pulex</i> < 24 hrs old	Dilution Water Hardness (mg/L): 46

Effluent Dilution	Number of Organisms Surviving			Dissolved Oxygen (mg/L)			Temperature (°C)			pH (su)		
	Hour	00	24	48	00	24	48	00	24	48	00	24
CONTROL 1	5	5	5	8.7	8.6	9.7	19	19	19	7.3	7.4	7.5
CONTROL 2	5	5	5	8.7	8.6	9.7	19	19	19	7.3	7.4	7.5
CONTROL 3	5	5	5	8.7	8.6	9.7	19	19	19	7.3	7.4	7.5
CONTROL 4	5	5	5	8.7	8.6	9.7	19	19	19	7.3	7.4	7.5
6.25% A	5	5	5	8.8	9.0	9.6	20	19	19	7.5	7.5	7.5
6.25% B	5	5	5	8.8	9.0	9.6	20	19	19	7.5	7.5	7.5
6.25% C	5	5	5	8.8	9.0	9.6	20	19	19	7.5	7.5	7.5
6.25% D	5	5	5	8.8	9.0	9.6	20	19	19	7.5	7.5	7.5
12.5% A	5	5	5	8.6	8.9	9.6	20	19	19	7.5	7.4	7.4
12.5% B	5	5	5	8.6	8.9	9.6	20	19	19	7.5	7.4	7.4
12.5% C	5	5	5	8.6	8.9	9.6	20	19	19	7.5	7.4	7.4
12.5% D	5	5	5	8.6	8.9	9.6	20	19	19	7.5	7.4	7.4
25% A	5	5	5	8.2	8.8	9.6	20	19	19	7.5	7.4	7.4
25% B	5	5	5	8.2	8.8	9.6	20	19	19	7.5	7.4	7.4
25% C	5	5	5	8.2	8.8	9.6	20	19	19	7.5	7.4	7.4
25% D	5	5	5	8.2	8.8	9.6	20	19	19	7.5	7.4	7.4
50% A	5	5	4	8.2	8.8	9.6	19	19	19	7.5	7.4	7.4
50% B	5	5	5	8.2	8.8	9.6	19	19	19	7.5	7.4	7.4
50% C	5	5	5	8.2	8.8	9.6	19	19	19	7.5	7.4	7.4
50% D	5	5	4	8.2	8.8	9.6	19	19	19	7.5	7.4	7.4
100% A	5	0	0	7.8	9.0	9.5	19	19	19	7.5	7.4	7.4
100% B	5	0	0	7.8	9.0	9.5	19	19	19	7.5	7.4	7.4
100% C	5	0	0	7.8	9.0	9.5	19	19	19	7.5	7.4	7.4
100% D	5	0	0	7.8	9.0	9.5	19	19	19	7.5	7.4	7.4

REFERENCE TOXICANT RESULTS

Test Species	Date	Reference Toxicant	Source	LC50
<i>Daphnia pulex</i>	12/1/10	CuNO3# 12-1-10	NEB	2.541 µg/L

Please send completed form to: WATER TOXICS PROGRAM COORDINATOR
 CT DEPARTMENT OF ENVIRONMENTAL PROTECTION
 BUREAU OF WATER MANAGEMENT
 79 ELM STREET
 HARTFORD, CT 06106-5127



General Permit for the Discharge of Stormwater Associated with Industrial Activities

Stormwater Monitoring Report Form

Facility Information

Name (owner, operator): **Fairfield Engineering Department**

Mailing Address:

Business Phone: _____ ext. _____ Fax: _____

Contact Person: _____ Title: _____

Site Address:

Receiving Water (name, basin): _____

Stormwater G.P. Registration # *GS/* _____ SIC Code: _____

Check this box if the number of employees is 25 or less, or if operated by a municipality:

Sampling Information

Sample Location: **DPW #3, 2010 Stormwater (Premier ID #E012064)**

Collected: Date: **12/1/2010** Time: **13:00**

Person Collecting Sample: _____

Storm Magnitude (inches): _____ Storm Duration (hours): _____

Date of Previous Storm Event: _____ Rainfall pH: **5.3**

Monitoring Results

Parameter	Method	Results (units)	Laboratory
Oil & Grease	1664A	8.5 mg/L	Premier Laboratory, Inc
pH	150.1	8.0 units	Premier Laboratory, Inc
COD	SM5220D	740 mg/L	Premier Laboratory, Inc
TSS	SM2540D	3100 mg/L	Premier Laboratory, Inc
TP	365.1	1.4 mg/L	Premier Laboratory, Inc
TKN	351.1	8.6 mg/L	Premier Laboratory, Inc
NO ₃ -N	SM4500-NO3 F	1.6 mg/L	Premier Laboratory, Inc
Total Copper	200.7	0.14 mg/L	Premier Laboratory, Inc
Total Zinc	200.7	0.37 mg/L	Premier Laboratory, Inc
Total Lead	200.7	0.26 mg/L	Premier Laboratory, Inc
24-Hour LC ₅₀	EPA 821-R-02	>100%	New England Bioassy
48-Hour LC ₅₀	EPA 821-R-02	>100%	New England Bioassy

Attach separate page(s) to report additional parameters monitored pursuant to Part VI.C.1.a of the general permit.

Statement of Acknowledgment

"I certify that the data reported on this document were prepared under my direction or supervision in accordance with the Stormwater General Permit. The information submitted is, to the best of my knowledge and belief, true, accurate and complete."

Name of Authorized Facility Official (print or type) Title (if applicable)

Signature of Authorized Facility Official Date

STORMWATER ACUTE TOXICITY TEST DATA SHEET

Sample Source: Premier E012064-3	
Date/Time Begin: 12/2/2010 1610	Date/Time End: 12/4/2010 1515
Sample Hardness (mg/L): 220	Sample Conductivity (µS): 1172
Test Species: <i>Daphnia pulex</i> < 24 hrs old	Dilution Water Hardness (mg/L): 46

Effluent Dilution	Number of Organisms Surviving			Dissolved Oxygen (mg/L)			Temperature (°C)			pH (su)			
	Hour	00	24	48	00	24	48	00	24	48	00	24	48
CONTROL 1		5	5	5	8.7	8.6	9.7	19	19	19	7.3	7.4	7.5
CONTROL 2		5	5	5	8.7	8.6	9.7	19	19	19	7.3	7.4	7.5
CONTROL 3		5	5	5	8.7	8.6	9.7	19	19	19	7.3	7.4	7.5
CONTROL 4		5	5	5	8.7	8.6	9.7	19	19	19	7.3	7.4	7.5
6.25% A		5	5	5	8.6	9.1	9.7	20	19	19	7.5	7.5	7.6
6.25% B		5	5	5	8.6	9.1	9.7	20	19	19	7.5	7.5	7.6
6.25% C		5	5	5	8.6	9.1	9.7	20	19	19	7.5	7.5	7.6
6.25% D		5	5	5	8.6	9.1	9.7	20	19	19	7.5	7.5	7.6
12.5% A		5	5	5	8.6	9.1	9.7	20	19	19	7.5	7.5	7.6
12.5% B		5	5	5	8.6	9.1	9.7	20	19	19	7.5	7.5	7.6
12.5% C		5	5	5	8.6	9.1	9.7	20	19	19	7.5	7.5	7.6
12.5% D		5	5	5	8.6	9.1	9.7	20	19	19	7.5	7.5	7.6
25% A		5	5	5	8.6	9.2	9.8	19	19	19	7.5	7.5	7.6
25% B		5	5	5	8.6	9.2	9.8	19	19	19	7.5	7.5	7.6
25% C		5	5	5	8.6	9.2	9.8	19	19	19	7.5	7.5	7.6
25% D		5	5	5	8.6	9.2	9.8	19	19	19	7.5	7.5	7.6
50% A		5	5	5	8.0	9.2	9.7	19	19	19	7.5	7.6	7.6
50% B		5	5	5	8.0	9.2	9.7	19	19	19	7.5	7.6	7.6
50% C		5	5	5	8.0	9.2	9.7	19	19	19	7.5	7.6	7.6
50% D		5	5	5	8.0	9.2	9.7	19	19	19	7.5	7.6	7.6
100% A		5	5	5	8.0	8.9	9.6	19	19	19	7.7	7.6	7.7
100% B		5	5	5	8.0	8.9	9.6	19	19	19	7.7	7.6	7.7
100% C		5	5	5	8.0	8.9	9.6	19	19	19	7.7	7.6	7.7
100% D		5	5	5	8.0	8.9	9.6	19	19	19	7.7	7.6	7.7

REFERENCE TOXICANT RESULTS

Test Species	Date	Reference Toxicant	Source	LC50
<i>Daphnia pulex</i>	12/1/10	CuNO3# 12-1-10	NEB	2.541 µg/L

Please send completed form to: WATER TOXICS PROGRAM COORDINATOR
 CT DEPARTMENT OF ENVIRONMENTAL PROTECTION
 BUREAU OF WATER MANAGEMENT
 79 ELM STREET
 HARTFORD, CT 06106-5127



General Permit for the Discharge of Stormwater Associated with Industrial Activities

Stormwater Monitoring Report Form

Facility Information

Name (owner, operator): **Fairfield Engineering Department**

Mailing Address:

Business Phone: _____ ext. _____ Fax: _____

Contact Person: _____ Title: _____

Site Address:

Receiving Water (name, basin): _____

Stormwater G.P. Registration # *GS/* _____ SIC Code: _____

Check this box if the number of employees is 25 or less, or if operated by a municipality:

Sampling Information

Sample Location: **Ground Products #1, 2010 Stormwater (Premier ID #E012064)**

Collected: _____ Date: **12/1/2010** Time: **13:45**

Person Collecting Sample: _____

Storm Magnitude (inches): _____ Storm Duration (hours): _____

Date of Previous Storm Event: _____ Rainfall pH: **5.3**

Monitoring Results

Parameter	Method	Results (units)	Laboratory
Oil & Grease	1664A	9.0 mg/L	Premier Laboratory, Inc
pH	150.1	7.0 units	Premier Laboratory, Inc
COD	SM5220D	510 mg/L	Premier Laboratory, Inc
TSS	SM2540D	240 mg/L	Premier Laboratory, Inc
TP	365.1	2.0 mg/L	Premier Laboratory, Inc
TKN	351.1	7.0 mg/L	Premier Laboratory, Inc
NO ₃ -N	SM4500-NO3 F	ND mg/L	Premier Laboratory, Inc
Total Copper	200.7	0.050 mg/L	Premier Laboratory, Inc
Total Zinc	200.7	0.24 mg/L	Premier Laboratory, Inc
Total Lead	200.7	0.028 mg/L	Premier Laboratory, Inc
24-Hour LC ₅₀	EPA 821-R-02	>100%	New England Bioassy
48-Hour LC ₅₀	EPA 821-R-02	>100%	New England Bioassy

Attach separate page(s) to report additional parameters monitored pursuant to Part VI.C.1.a of the general permit.

Statement of Acknowledgment

"I certify that the data reported on this document were prepared under my direction or supervision in accordance with the Stormwater General Permit. The information submitted is, to the best of my knowledge and belief, true, accurate and complete."

Name of Authorized Facility Official (print or type) _____ Title (if applicable) _____

Signature of Authorized Facility Official _____ Date _____

STORMWATER ACUTE TOXICITY TEST DATA SHEET

Sample Source: Premier E012064-4	
Date/Time Begin: 12/2/2010 1610	Date/Time End: 12/4/2010 1510
Sample Hardness (mg/L): 42	Sample Conductivity (µS): 210
Test Species: <i>Daphnia pulex</i> < 24 hrs old	Dilution Water Hardness (mg/L): 46

Effluent Dilution	Number of Organisms Surviving			Dissolved Oxygen (mg/L)			Temperature (°C)			pH (su)		
	Hour	00	24	48	00	24	48	00	24	48	00	24
CONTROL 1	5	5	5	8.7	8.6	9.7	19	19	19	7.3	7.4	7.5
CONTROL 2	5	5	5	8.7	8.6	9.7	19	19	19	7.3	7.4	7.5
CONTROL 3	5	5	5	8.7	8.6	9.7	19	19	19	7.3	7.4	7.5
CONTROL 4	5	5	5	8.7	8.6	9.7	19	19	19	7.3	7.4	7.5
6.25% A	5	5	5	8.8	9.0	9.6	19	19	19	7.5	7.6	7.6
6.25% B	5	5	5	8.8	9.0	9.6	19	19	19	7.5	7.6	7.6
6.25% C	5	5	5	8.8	9.0	9.6	19	19	19	7.5	7.6	7.6
6.25% D	5	5	5	8.8	9.0	9.6	19	19	19	7.5	7.6	7.6
12.5% A	5	5	5	8.8	9.2	9.6	19	19	19	7.5	7.6	7.6
12.5% B	5	5	5	8.8	9.2	9.6	19	19	19	7.5	7.6	7.6
12.5% C	5	5	5	8.8	9.2	9.6	19	19	19	7.5	7.6	7.6
12.5% D	5	5	5	8.8	9.2	9.6	19	19	19	7.5	7.6	7.6
25% A	5	5	5	8.7	9.1	9.3	19	19	19	7.5	7.6	7.6
25% B	5	5	5	8.7	9.1	9.3	19	19	19	7.5	7.6	7.6
25% C	5	5	5	8.7	9.1	9.3	19	19	19	7.5	7.6	7.6
25% D	5	5	5	8.7	9.1	9.3	19	19	19	7.5	7.6	7.6
50% A	5	5	5	7.6	9.2	9.7	19	19	19	7.5	7.6	7.6
50% B	5	5	5	7.6	9.2	9.7	19	19	19	7.5	7.6	7.6
50% C	5	5	5	7.6	9.2	9.7	19	19	19	7.5	7.6	7.6
50% D	5	5	5	7.6	9.2	9.7	19	19	19	7.5	7.6	7.6
100% A	5	5	5	5.4	6.0	7.3	19	19	19	7.5	7.7	7.6
100% B	5	5	5	5.4	6.0	7.3	19	19	19	7.5	7.7	7.6
100% C	5	5	5	5.4	6.0	7.3	19	19	19	7.5	7.7	7.6
100% D	5	5	5	5.4	6.0	7.3	19	19	19	7.5	7.7	7.6

REFERENCE TOXICANT RESULTS

Test Species	Date	Reference Toxicant	Source	LC50
<i>Daphnia pulex</i>	12/1/10	CuNO3# 12-1-10	NEB	2.541 µg/L

Please send completed form to: WATER TOXICS PROGRAM COORDINATOR
 CT DEPARTMENT OF ENVIRONMENTAL PROTECTION
 BUREAU OF WATER MANAGEMENT
 79 ELM STREET
 HARTFORD, CT 06106-5127



General Permit for the Discharge of Stormwater Associated with Industrial Activities

Stormwater Monitoring Report Form

Facility Information

Name (owner, operator): **Fairfield Engineering Department**

Mailing Address:

Business Phone: _____ ext. _____ Fax: _____

Contact Person: _____ Title: _____

Site Address:

Receiving Water (name, basin): _____

Stormwater G.P. Registration # *GS/* _____ SIC Code: _____

Check this box if the number of employees is 25 or less, or if operated by a municipality:

Sampling Information

Sample Location: **Ground Products #2, 2010 Stormwater (Premier ID #E012064)**

Collected: _____ Date: **12/1/2010** Time: **13:15**

Person Collecting Sample: _____

Storm Magnitude (inches): _____ Storm Duration (hours): _____

Date of Previous Storm Event: _____ Rainfall pH: **5.3**

Monitoring Results

Parameter	Method	Results (units)	Laboratory
Oil & Grease	1664A	7.5 mg/L	Premier Laboratory, Inc
pH	150.1	6.7 units	Premier Laboratory, Inc
COD	SM5220D	1900 mg/L	Premier Laboratory, Inc
TSS	SM2540D	1200 mg/L	Premier Laboratory, Inc
TP	365.1	11 mg/L	Premier Laboratory, Inc
TKN	351.1	37 mg/L	Premier Laboratory, Inc
NO ₃ -N	SM4500-NO3 F	0.29 mg/L	Premier Laboratory, Inc
Total Copper	200.7	0.28 mg/L	Premier Laboratory, Inc
Total Zinc	200.7	0.78 mg/L	Premier Laboratory, Inc
Total Lead	200.7	0.17 mg/L	Premier Laboratory, Inc
24-Hour LC ₅₀	EPA 821-R-02	>100%	New England Bioassy
48-Hour LC ₅₀	EPA 821-R-02	>100%	New England Bioassy

Attach separate page(s) to report additional parameters monitored pursuant to Part VI.C.1.a of the general permit.

Statement of Acknowledgment

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Name of Authorized Facility Official (print or type) Title (if applicable)

Signature of Authorized Facility Official Date

STORMWATER ACUTE TOXICITY TEST DATA SHEET

Sample Source: Premier E012064-5	
Date/Time Begin: 12/2/2010 1615	Date/Time End: 12/4/2010 1515
Sample Hardness (mg/L): 100	Sample Conductivity (µS) : 361
Test Species: <i>Daphnia pulex</i> < 24 hrs old	Dilution Water Hardness (mg/L): 46

Effluent Dilution	Number of Organisms Surviving			Dissolved Oxygen (mg/L)			Temperature (°C)			pH (su)		
	Hour	00	24	48	00	24	48	00	24	48	00	24
CONTROL 1	5	5	5	8.7	8.6	9.7	19	19	19	7.3	7.4	7.5
CONTROL 2	5	5	5	8.7	8.6	9.7	19	19	19	7.3	7.4	7.5
CONTROL 3	5	5	5	8.7	8.6	9.7	19	19	19	7.3	7.4	7.5
CONTROL 4	5	5	5	8.7	8.6	9.7	19	19	19	7.3	7.4	7.5
6.25% A	5	5	5	8.2	8.5	9.3	19	19	19	7.5	7.6	7.7
6.25% B	5	5	5	8.2	8.5	9.3	19	19	19	7.5	7.6	7.7
6.25% C	5	5	5	8.2	8.5	9.3	19	19	19	7.5	7.6	7.7
6.25% D	5	5	5	8.2	8.5	9.3	19	19	19	7.5	7.6	7.7
12.5% A	5	5	5	8.2	8.6	8.7	19	19	19	7.5	7.6	7.6
12.5% B	5	5	5	8.2	8.6	8.7	19	19	19	7.5	7.6	7.6
12.5% C	5	5	5	8.2	8.6	8.7	19	19	19	7.5	7.6	7.6
12.5% D	5	5	5	8.2	8.6	8.7	19	19	19	7.5	7.6	7.6
25% A	5	5	5	7.8	8.4	7.0	19	19	19	7.5	7.6	7.5
25% B	5	5	5	7.8	8.4	7.0	19	19	19	7.5	7.6	7.5
25% C	5	5	5	7.8	8.4	7.0	19	19	19	7.5	7.6	7.5
25% D	5	5	5	7.8	8.4	7.0	19	19	19	7.5	7.6	7.5
50% A	5	5	5	7.2	6.8	5.4	19	19	19	7.5	7.6	7.4
50% B	5	5	5	7.2	6.8	5.4	19	19	19	7.5	7.6	7.4
50% C	5	5	5	7.2	6.8	5.4	19	19	19	7.5	7.6	7.4
50% D	5	5	5	7.2	6.8	5.4	19	19	19	7.5	7.6	7.4
100% A	5	5	2	1.4	1.3	3.8	19	19	19	7.4	7.3	7.3
100% B	5	5	3	1.4	1.3	3.8	19	19	19	7.4	7.3	7.3
100% C	5	5	3	1.4	1.3	3.8	19	19	19	7.4	7.3	7.3
100% D	5	5	2	1.4	1.3	3.8	19	19	19	7.4	7.3	7.3

REFERENCE TOXICANT RESULTS

Test Species	Date	Reference Toxicant	Source	LC50
<i>Daphnia pulex</i>	12/1/10	CuNO3# 12-1-10	NEB	2.541 µg/L

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 CT DEPARTMENT OF ENVIRONMENTAL PROTECTION
 BUREAU OF WATER MANAGEMENT
 79 ELM STREET
 HARTFORD, CT 06106-5127



General Permit for the Discharge of Stormwater Associated with Industrial Activities

Stormwater Monitoring Report Form

Facility Information

Name (owner, operator): **Fairfield Engineering Department**

Mailing Address:

Business Phone: _____ ext. _____ Fax: _____

Contact Person: _____ Title: _____

Site Address:

Receiving Water (name, basin): _____

Stormwater G.P. Registration # *GSI* _____ SIC Code: _____

Check this box if the number of employees is 25 or less, or if operated by a municipality:

Sampling Information

Sample Location: **WPCF #3, 2010 Stormwater (Premier ID #E012064)**

Collected: _____ Date: **12/1/2010** Time: **13:30**

Person Collecting Sample: _____

Storm Magnitude (inches): _____ Storm Duration (hours): _____

Date of Previous Storm Event: _____ Rainfall pH: **5.3**

Monitoring Results

Parameter	Method	Results (units)	Laboratory
Oil & Grease	1664A	ND mg/L	Premier Laboratory, Inc
pH	150.1	6.8 units	Premier Laboratory, Inc
COD	SM5220D	20 mg/L	Premier Laboratory, Inc
TSS	SM2540D	7.0 mg/L	Premier Laboratory, Inc
TP	365.1	0.025 mg/L	Premier Laboratory, Inc
TKN	351.1	ND mg/L	Premier Laboratory, Inc
NO ₃ -N	SM4500-NO3 F	0.23 mg/L	Premier Laboratory, Inc
Total Copper	200.7	0.024 mg/L	Premier Laboratory, Inc
Total Zinc	200.7	0.20 mg/L	Premier Laboratory, Inc
Total Lead	200.7	ND mg/L	Premier Laboratory, Inc
24-Hour LC ₅₀	EPA 821-R-02	70.7%	New England Bioassy
48-Hour LC ₅₀	EPA 821-R-02	34.5%	New England Bioassy

Attach separate page(s) to report additional parameters monitored pursuant to Part VI.C.1.a of the general permit.

Statement of Acknowledgment

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Name of Authorized Facility Official (print or type) _____ Title (if applicable) _____

Signature of Authorized Facility Official _____ Date _____

STORMWATER ACUTE TOXICITY TEST DATA SHEET

Sample Source: Premier E012064-6	
Date/Time Begin: 12/2/2010 1610	Date/Time End: 12/4/2010 1510
Sample Hardness (mg/L): 20	Sample Conductivity (µS) : 120
Test Species: <i>Daphnia pulex</i> < 24 hrs old	Dilution Water Hardness (mg/L): 46

Effluent Dilution	Number of Organisms Surviving			Dissolved Oxygen (mg/L)			Temperature (°C)			pH (su)		
	Hour	00	24	48	00	24	48	00	24	48	00	24
CONTROL 1	5	5	5	8.6	7.9	9.1	19	19	19	7.3	7.4	7.3
CONTROL 2	5	5	5	8.6	7.9	9.1	19	19	19	7.3	7.4	7.3
CONTROL 3	5	5	4	8.6	7.9	9.1	19	19	19	7.3	7.4	7.3
CONTROL 4	5	5	5	8.6	7.9	9.1	19	19	19	7.3	7.4	7.3
6.25% A	5	5	5	8.5	9.7	9.1	19	19	19	7.3	5.8	7.3
6.25% B	5	5	5	8.5	9.7	9.1	19	19	19	7.3	5.8	7.3
6.25% C	5	5	5	8.5	9.7	9.1	19	19	19	7.3	5.8	7.3
6.25% D	5	5	5	8.5	9.7	9.1	19	19	19	7.3	5.8	7.3
12.5% A	5	5	5	8.5	9.8	9.1	19	19	19	7.3	5.8	7.4
12.5% B	5	5	5	8.5	9.8	9.1	19	19	19	7.3	5.8	7.4
12.5% C	5	5	5	8.5	9.8	9.1	19	19	19	7.3	5.8	7.4
12.5% D	5	5	5	8.5	9.8	9.1	19	19	19	7.3	5.8	7.4
25% A	5	5	5	8.6	9.8	9.0	19	19	19	7.3	5.8	7.3
25% B	5	5	4	8.6	9.8	9.0	19	19	19	7.3	5.8	7.3
25% C	5	5	5	8.6	9.8	9.0	19	19	19	7.3	5.8	7.3
25% D	5	5	5	8.6	9.8	9.0	19	19	19	7.3	5.8	7.3
50% A	5	5	0	8.7	9.9	9.1	19	19	19	7.3	5.8	7.3
50% B	5	5	0	8.7	9.9	9.1	19	19	19	7.3	5.8	7.3
50% C	5	5	0	8.7	9.9	9.1	19	19	19	7.3	5.8	7.3
50% D	5	5	0	8.7	9.9	9.1	19	19	19	7.3	5.8	7.3
100% A	5	0	0	8.7	9.7	9.0	19	19	19	7.4	5.8	7.3
100% B	5	0	0	8.7	9.7	9.0	19	19	19	7.4	5.8	7.3
100% C	5	0	0	8.7	9.7	9.0	19	19	19	7.4	5.8	7.3
100% D	5	0	0	8.7	9.7	9.0	19	19	19	7.4	5.8	7.3

REFERENCE TOXICANT RESULTS

Test Species	Date	Reference Toxicant	Source	LC50
<i>Daphnia pulex</i>	12/1/10	CuNO3# 12-1-10	NEB	2.541 µg/L

Please send completed form to: WATER TOXICS PROGRAM COORDINATOR
 CT DEPARTMENT OF ENVIRONMENTAL PROTECTION
 BUREAU OF WATER MANAGEMENT
 79 ELM STREET
 HARTFORD, CT 06106-5127



Premier Laboratory, Inc.
CHAIN OF CUSTODY

www.PremierLaboratory.com

SHADED AREAS
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USE ONLY

Lab WO#

EO12064

Project Manager

BCJ

COPY OF REPORT TO

CUSTOMER: Town of Fairfield
ADDRESS: 725 old Post Rd
Fairfield CT.
ATTENTION: Chris Rogers
E-MAIL: Crogers@townofFairfield.CT.US
PHONE: 203-256-3015 FAX: 203-256-3050

BILLING INFORMATION

BILL TO: Town of Fairfield Engineering
ADDRESS: 725 old post Rd
Fairfield CT
ATTENTION: Engineering Dept.
TELEPHONE: 203-256-3015
PURCHASE ORDER#:

PROJECT INFORMATION

PROJECT: _____
PROJECT LOCATION: _____ STATE: _____
PROJECT MANAGER: _____
IN CASE WE HAVE ANY QUESTIONS WHEN SAMPLES ARRIVE WE SHOULD CALL:
E-MAIL: _____
TELEPHONE: _____
FAX: _____

SAMPLE IDENTIFICATION

DATE COLLECTED

TIME COLLECTED

SAMPLE TYPE

COMPOSITE

GRAB

SAMPLE MATRIX

OF BOTTLES

ANALYSIS

PRESERVATIVES

H2SO4

HCL

HNO3

NAOH

NON-PRES

MeOH

#1
#2
#3
#1
#2
#3

DPW #1

58°F

12/1/10

12:30

✓

7

DPW #2

58°F

"

12:45

✓

7

DPW #3

59°F

"

1:00

✓

7

Ground Products #1

58°F

"

1:45

✓

7

Ground Products #2

58°F

"

1:15

✓

7

WPCF #3

59°F

"

1:30

✓

7

PRESERVATIVE
SERIFIED
Initials CCJ

CUSTODY TRANSFER

DATE

TIME

TURNAROUND (INDICATE IN CALENDAR DAYS): _____ FAX _____ HARD COPY _____ E-MAIL _____

SAMPLER: Chris Rogers & John Chizmedica

RECEIVED:

RELINQUISHED: Chris Rogers

12/2/10 12:20

RECEIVED: Chris Uliyan

12-2-2010 13:20

RELINQUISHED: Chris Uliyan

12-2-2010 16:39

RECEIVED: Michael Noble

12/2/10 16:39

EXPEDITED SERVICE MAY BE SUBJECT TO SURCHARGE

COMMENTS PH 5.3

CONDITION UPON RECEIPT: (Check One)

Cooled

Ambient

4/0

°C Upon Receipt at Lab

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

PAGE 1 of 1

#3 A&G