Gannett Fleming

GANNETT FLEMING, INC.
Suite 210
199 Wells Avenue
Newton, MA 02459
Office: (617) 527-7822
Fax: (617) 527-7806
www.gannettfleming.com

June 5, 2007

Mr. Victor Alvarez
US Environmental Protection Agency
RGP-NOC Processing
Municipal Assistance Unit (CMU)
One Congress Street, Suite 1100
Boston, MA 2114-2023

RE: **NPDES General Remediation Permit Notice of Intent (NOI)**
Former Uniroyal Complex – Chicopee Industrial Park
154 Grove Street Chicopee, MA 01020

Dear Mr. Alvarez:

Enclosed please find the NPDES General Remediation Permit Notice of Intent (NOI) and supporting documentation for the above referenced location. According to the note on page 22 of the Remediation General Permit there is no State Application Form BRPWM 12 or state fee required for this application.

If you have any questions do not hesitate to contact me.

Regards,

Gannett Fleming, Inc.

FOR

Guy P. Dalton, P.E.
Senior Project Engineer/Project Manager
Gannett Fleming, Inc.
47 Waterman Avenue
East Longmeadow, MA 01028-1728
413-530-6682
413-525-4607 fax

Cc: Guy Dalton, Gannett Fleming Inc.
Therese Albanese, Gannett Fleming Inc.
Jeffery Krug, Compass Environmental

B. Suggested Form for Notice of Intent (NOI) for the Remediation General Permit

1. General site information. Please provide the following information about the site:

<table>
<tr><td colspan="2">a) Name of facility/site:
Former Uniroyal Complex</td><td colspan="4">Facility/site address:
154 Grove Street Chicopee, MA</td></tr>
<tr><td>Location of facility/site:
longitude: 72.35 latitude: 42.9</td><td>Facility SIC code(s):</td><td colspan="4">Street:
154 Grove Street</td></tr>
<tr><td colspan="2">b) Name of facility/site owner: Facemate Corporation</td><td colspan="4">Town: Chicopee</td></tr>
<tr><td colspan="2">Email address of owner:
N/A</td><td>State:
MA</td><td>Zip:
01020</td><td>County:
Hampden</td></tr>
<tr><td colspan="2">Telephone no.of facility/site owner: (413) 594-6661</td><td colspan="3" rowspan="2">Owner is (check one): 1. Federal____ 2. State/Tribal____
3. Private__✔___ 4. other, if so, describe:</td></tr>
<tr><td colspan="2">Fax no. of facility/site owner:
Address of owner (if different from site):</td></tr>
<tr><td colspan="6">Street: 5 West Main Street Chicopee, MA</td></tr>
<tr><td colspan="2">Town: Chicopee</td><td>State: MA</td><td>Zip: 01020</td><td colspan="2">County: Hampden</td></tr>
<tr><td colspan="2" rowspan="2">c) Legal name of operator:
Compass Environmental, Inc.</td><td colspan="4">Operator telephone no: (317) 281-9619</td></tr>
<tr><td colspan="2">Operator fax no.: (317) 334-0726</td><td colspan="2">Operator email:
agarcia@compassenvironmental.com</td></tr>
<tr><td colspan="6">Operator contact name and title: Americo Garcia - Supervisor</td></tr>
</table>

Address of **operator** (if different from owner):	Street: 5858 W. 84th Street		
Town: Indianapolis	State: IN	Zip: 46268	County: Marion

d) Check "yes" or "no" for the following:
1. Has a prior NPDES permit exclusion been granted for the discharge? Yes___ No✔, if "yes," number:
2. Has a prior NPDES application (Form 1 & 2C) ever been filed for the discharge? Yes___ No✔, if "yes," date and tracking #:
3. Is the discharge a "new discharge"as defined by 40 CFR 122.2? Yes___ No✔
4. For sites in Massachusetts, is the discharge covered under the MA Contingency Plan (MCP) and exempt from state permitting? Yes✔No__

e) Is site/facility subject to any State permitting or other action which is causing the generation of discharge? Yes✔ No___
If "yes," please list:
1. site identification # assigned by the state of NH or MA: 1-0436, 1-12221
2. permit or license # assigned:
3. state agency contact information: name, location, and telephone number:
MADEP, Lisa Jones, (413) 755-2248, 36 Dwight Street Springfield, MA 01103

f) Is the site/facility covered by any other EPA permit, including:
1. multi-sector storm water general permit? Y___ N✔, if Y, number:
2. phase I or II construction storm water general permit? Y___ N✔,
if Y, number:
3. individual NPDES permit? Y___ N✔, if Y, number:
4. any other water quality related permit? Y✔ N___, if Y, number:
Wetlands NOI

2. Discharge information. Please provide information about the discharge, (attaching additional sheets as needed) including:

a) Describe the discharge activities for which the owner/applicant is seeking coverage:

Discharge activities are planned as a part of a remedial action to remove comtaminated sediment from an active drain line and dewatering during soil removal. A flushing system will be used to clean out the active lines. The flushed sediment and water will be collected in a vacuum truck then pumped through a filtration system to separate the water from the sediment and treat contaminants to levels in accordance with NPDES regulations.

b) Provide the following information about each discharge:	1) Number of discharge points: 1	2) What is the **maximum** and **average flow rate** of discharge (in cubic feet per second, ft^3/s)? Max. flow 0.22 Average flow 0.18 Is maximum flow a **design value**? Y___N✔ For average flow, include the units and appropriate notation if this value is a design value or estimate if not available.

3) Latitude and longitude of each discharge within 100 feet: pt.1:long. -72 lat. 42.15 ; pt.2: long._____ lat._____; pt.3: long._____ lat._____;
pt.4:long._____ lat._____; pt.5: long._____ lat._____; pt.6:long._____ lat._____; pt.7: long._____ lat._____; pt.8:long._____ lat._____; etc.

4) If hydrostatic testing, total volume of the discharge (gals):	5) Is the discharge intermittent ✔ or seasonal ____? Is discharge ongoing Yes ____ No ✔ ?
c) Expected dates of discharge (mm/dd/yy): start 06/15/07 end 08/01/07	
d) Please attach a line drawing or flow schematic showing water flow through the facility including: 1. sources of intake water, 2. contributing flow from the operation, 3. treatment units, and 4. discharge points and receiving waters(s).	

3. Contaminant information. In order to complete this section, the applicant will need to take a minimum of one sample of the untreated water and have it analyzed for **all** of the parameters listed in Appendix III. Historical data, (i.e., data taken no more than 2 years prior to the effective date of the permit) may be used if obtained pursuant to: i. Massachusetts' regulations 310 CMR 40.0000, the Massachusetts Contingency Plan ("Chapter 21E"); ii. New Hampshire's Title 50 RSA 485-A: Water Pollution and Waste Disposal or Title 50 RSA 485-C: Groundwater Protection Act; or iii. an EPA permit exclusion letter issued pursuant to 40 CFR 122.3, provided the data was analyzed with test methods that meet the requirements of this permit. Otherwise, a new sample shall be taken and analyzed.

a) Based on the analysis of the sample(s) of the untreated influent, the applicant must check the box of the sub-categories that the potential discharge falls within.

Gasoline Only ☐	VOC Only ☐	Primarily Metals ☐	Urban Fill Sites ☐	Contaminated Sumps ☐	Mixed Contaminants ✔	Aquifer Testing ☐
Fuel Oils (and Other Oils) only ☐	VOC with Other Contaminants ✔	Petroleum with Other Contaminants ✔	Listed Contaminated Sites ✔	Contaminated Dredge Condensates ☐	Hydrostatic Testing of Pipelines/Tanks ☐	Well Development or Rehabilitation ☐

b) Based on the analysis of the untreated influent, the applicant must indicate whether each listed chemical is **believed present** or **believed absent** in the potential discharge. Attach additional sheets as needed.

PARAMETER	**Believe Absent**	**Believe Present**	**# of Samples (1 min-imum)**	**Type of Sample (e.g., grab)**	**Analytical Method Used (method #)**	**Minimum Level (ML) of Test Method**	**Maximum daily value**		**Avg. daily value**	
							concentration (ug/l)	**mass (kg)**	**concentration (ug/l)**	**mass (kg)**
1. Total Suspended Solids	✔		1	Composite	160.2	5 mg/L				
2. Total Residual Chlorine	✔		1	Composite	330.1	20 ug/L				
3. Total Petroleum Hydrocarbons	✔		1	Composite	1664A	4 mg/L				
4. Cyanide	✔		1	Composite	335.2	5 mg/L				
5. Benzene	✔		1	Composite	624	1 ug/L				
6. Toluene	✔		1	Composite	624	1 ug/L				
7. Ethylbenzene	✔		1	Composite	624	1 ug/L				
8. (m,p,o) Xylenes	✔		1	Composite	624	2 ug/L				
9. Total BTEX[4]	✔		1	Composite	624	5 ug/L				

[4] BTEX = Sum of Benzene, Toluene, Ethylbenzene, total Xylenes.

PARAMETER	Believe Absent	Believe Present	# of Samples (1 min-imum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Avg. daily value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
10. Ethylene Dibromide (1,2- Dibromo-methane)	✔		1	Composite	624	.02ugL				
11. Methyl-tert-Butyl Ether (MtBE)	✔		1	Composite	624	20 ug/L				
12. tert-Butyl Alcohol (TBA)	✔		1	Composite	624	100ug/L				
13. tert-Amyl Methyl Ether (TAME)	✔		1	Composite	624	20 ug/L				
14. Naphthalene	✔		1	Composite	624	5 ug/L				
15. Carbon Tetra-chloride	✔		1	Composite	624	1 ug/L				
16. 1,4 Dichlorobenzene	✔		1	Composite	624	5 ug/L				
17. 1,2 Dichlorobenzene	✔		1	Composite	624	5 ug/L				
18. 1,3 Dichlorobenzene	✔		1	Composite	624	5 ug/L				
19. 1,1 Dichloroethane	✔		1	Composite	624	1.5ug/L				
20. 1,2 Dichloroethane	✔		1	Composite	624	1.5ug/L				
21. 1,1 Dichloroethylene	✔		1	Composite	624	1 ug/L				
22. cis-1,2 Dichloro-ethylene	✔		1	Composite	624	1 ug/L				
23. Dichloromethane (Methylene Chloride)	✔		1	Composite	624	5 ug/L				
24. Tetrachloroethylene	✔		1	Composite	624	1.5ug/L				

PARAMETER	Believe Absent	Believe Present	# of Samples (1 min-imum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Avg. daily Value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
25. 1,1,1 Trichloroethane	✔		1	Composite	624	2 ug/L				
26. 1,1,2 Trichloroethane	✔		1	Composite	624	1.5ug/L				
27. Trichloroethylene	✔		1	Composite	624	1 ug/L				
28. Vinyl Chloride	✔		1	Composite	624	2 ug/L				
29. Acetone	✔		1	Composite	624	10 ug/L				
30. 1,4 Dioxane	✔		1	Composite	624	2000ugL				
31. Total Phenols	✔		1	Composite	8270C	.03ug/L				
32. Pentachlorophenol	✔		1	Composite	8270C	10 ug/L				
33. Total Phthalates [5] (Phthalate esthers)	✔		1	Composite	8270C	5 ug/L				
34. Bis (2-Ethylhexyl) Phthalate [Di-(ethylhexyl) Phthalate]	✔		1	Composite	8270C	5 ug/L				
35. Total Group I Polycyclic Aromatic Hydrocarbons (PAH)	✔		1	Composite	8270C	0.20ugL				
a. Benzo(a) Anthracene	✔		1	Composite	8270C	0.20ugL				
b. Benzo(a) Pyrene	✔		1	Composite	8270C	0.20ugL				
c. Benzo(b)Fluoranthene	✔		1	Composite	8270C	0.20ugL				
d. Benzo(k) Fluoranthene	✔		1	Composite	8270C	0.20ugL				
e. Chrysene	✔		1	Composite	8270C	0.20ugL				

[5] The sum of individual phthalate compounds.

PARAMETER	Believe Absent	Believe Present	# of Samples (1 min-imum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Average daily value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
f. Dibenzo(a,h) anthracene	✔		1	Composite	8270C	0.20ugL				
g. Indeno(1,2,3-cd) Pyrene	✔		1	Composite	8270C	0.20ugL				
36. Total Group II Polycyclic Aromatic Hydrocarbons (PAH)	✔		1	Composite	8270C	5 ug/L				
h. Acenaphthene	✔		1	Composite	8270C	0.20ugL				
i. Acenaphthylene	✔		1	Composite	8270C	0.20ugL				
j. Anthracene	✔		1	Composite	8270C	0.20ugL				
k. Benzo(ghi) Perylene	✔		1	Composite	8270C	0.20ugL				
l. Fluoranthene	✔		1	Composite	8270C	5 ug/L				
m. Fluorene	✔		1	Composite	8270C	5 ug/L				
n. Naphthalene-	✔		1	Composite	8270C	5 ug/L				
o. Phenanthrene	✔		1	Composite	8270C	0.20ugL				
p. Pyrene	✔		1	Composite	8270C	0.20ugL				
37. Total Polychlorinated Biphenyls (PCBs)	✔		1	Composite	608	0.25ugL				
***3*8. Antimony**		✔	1	Composite	6020	5 ug/L	0.8	0.00043	0.8	0.00034
39. Arsenic		✔	1	Composite	6020	5 ug/L	1.1	0.00059	1.1	0.00047
40. Cadmium	✔		1	Composite	6020	2 ug/L				
41. Chromium III	✔		1	Composite	6020	5 ug/L				
42. Chromium VI	✔		1	Composite	6020	5 ug/L				

PARAMETER	Believe Absent	Believe Present	# of Samples (1 min-imum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Avg. daily value	
							concentration (ug/l)	**mass** (kg)	**concentration** (ug/l)	**mass** (kg)
43. Copper		✔	1	Composite	6020	5 ug/L	2.8	0.00152	2.8	0.00122
44. Lead		✔	1	Composite	6020	5 ug/L	1.6	0.00087	1.6	0.00069
45. Mercury	✔		1	Composite	245.2	2 ug/L				
46. Nickel		✔	1	Composite	6020	5 ug/L	2.1	0.00114	2.1	0.00091
47. Selenium		✔	1	Composite	6020	10 ug/L	1.0	0.00054	1.0	0.00043
48. Silver	✔		1	Composite	6020	4 ug/L				
49. Zinc		✔	1	Composite	6020	50 ug/L	71.3	0.03886	71.3	0.03108
50. Iron		✔	1	Composite	200.7	.5 mg/L	670	0.36517	670	0.29214
Other (describe):										

c) For discharges where **metals** are believed present, please fill out the following:

Step 1: Do any of the metals in the influent have a **reasonable potential** to exceed the effluent limits in Appendix III (i.e., the limits set at zero to five dilutions)? Y___ N__✔__	If yes, which metals?
Step 2: For any metals which have **reasonable potential** to exceed the **Appendix III** limits, calculate the **dilution factor (DF)** using the formula in Part I.A.3.c) (step 2) of the NOI instructions or as determined by the State prior to the submission of this NOI. What is the dilution factor for applicable metals? Metals:_____ DF: _____	Look up the limit calculated at the corresponding dilution factor in **Appendix IV.** Do any of the metals in the **influent** have the potential to exceed the corresponding **effluent** limits in Appendix IV (i.e., is the influent concentration above the limit set at the calculated dilution factor)? Y____ N____ If "Yes," list which metals:

4. Treatment system information. Please describe the treatment system using separate sheets as necessary, including:

a) A description of the treatment system, including a schematic of the proposed or existing treatment system:

The treatment system will include two (2) twenty-one thousand (21,000) gallon steel frac/settling tanks that the untreated water will be pumped into by vaccum truck from the drain line. The water will then be pumped through a set of four (4) particulate filters follwed by two (2) two-thousand (2,000) pound carbon vessels filled with 8x30 mesh reactivated carbon. The treated water will then be discharged back into the drain system at the influent inlet to the flood control pump station.

b) Identify each applicable treatment unit (check all that apply):	Frac. tank ✔	Air stripper ☐	Oil/water separator ☐	Equalization tanks ☐	Bag filter ✔	GAC filter ✔
	Chlorination ☐	Dechlorination ☐	Other (please describe):			

c) Proposed **average** and **maximum flow rates** (gallons per minute) for the discharge and the **design flow rate**(s) (gallons per minute) of the treatment system:
Average flow rate of discharge 80 Maximum flow rate of treatment system 100 Design flow rate of treatment system 80

d) A description of chemical additives being used or planned to be used (attach MSDS sheets):

N/A

5. Receiving surface water(s). Please provide information about the receiving water(s), using separate sheets as necessary:

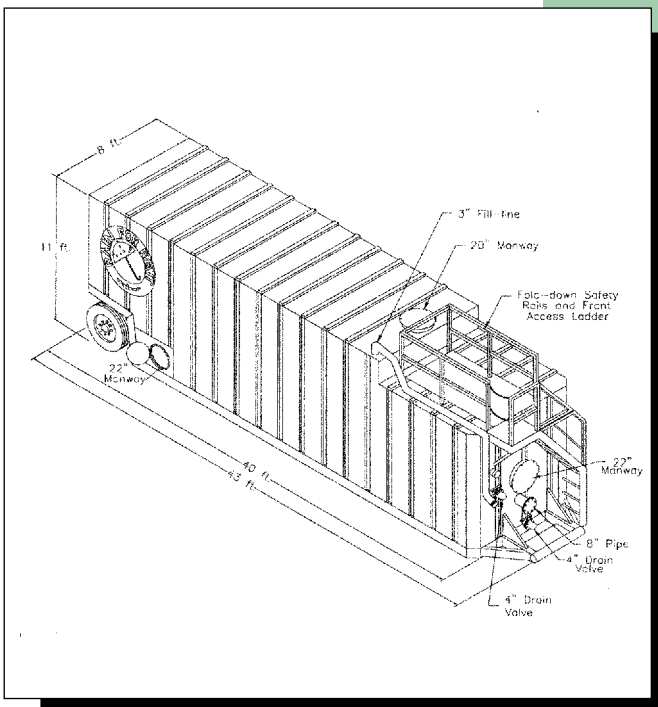
a) Identify the discharge pathway:	Direct ☐	Within facility ☐	Storm drain ☐	River/brook ✔	Wetlands ☐	Other (describe):

b) Provide a narrative description of the discharge pathway, including the name(s) of the receiving waters:

The discharge pathway will consitst of a 4 inch line from the effluent end of the treatment system that will be placed at the influent inlet of the current city of Chicopee operated flood controlled pump station located on the Chicopee River identified on the treatment system drawing included with this application.

STEEL TANKS

21,000 Gallon Steel Bi-Level Tank



Tank Dimensions

21,000 GALLON BI-LEVEL TANK

EPOXY COATED OR CARBON STEEL

FEATURES

- Unique safety stairway
- Totally enclosed tank
- Quick Kleen "V" shaped floor with two 4" valves at floor level
- Easy to move
- Optional vapor tight features with liquid level gauge
- Optional steam coils

TECHNICAL

WORKSAFE™ Bi-Level steel tanks are available with or without and epoxy coated interior. This tank has a "V" shaped Quick Kleen floor which allows any residual fluid in the tank to be easily flushed out the floor level 4" valves. Staircase guard rails and three 22" confined space entry hatches are standard equipment. Optional epoxy coatings offer increased chemical resistance and higher degree of cleanliness for sensitive environmental applications. (Chemical resistance charts are available.)

MATERIAL SPECIFICATIONS

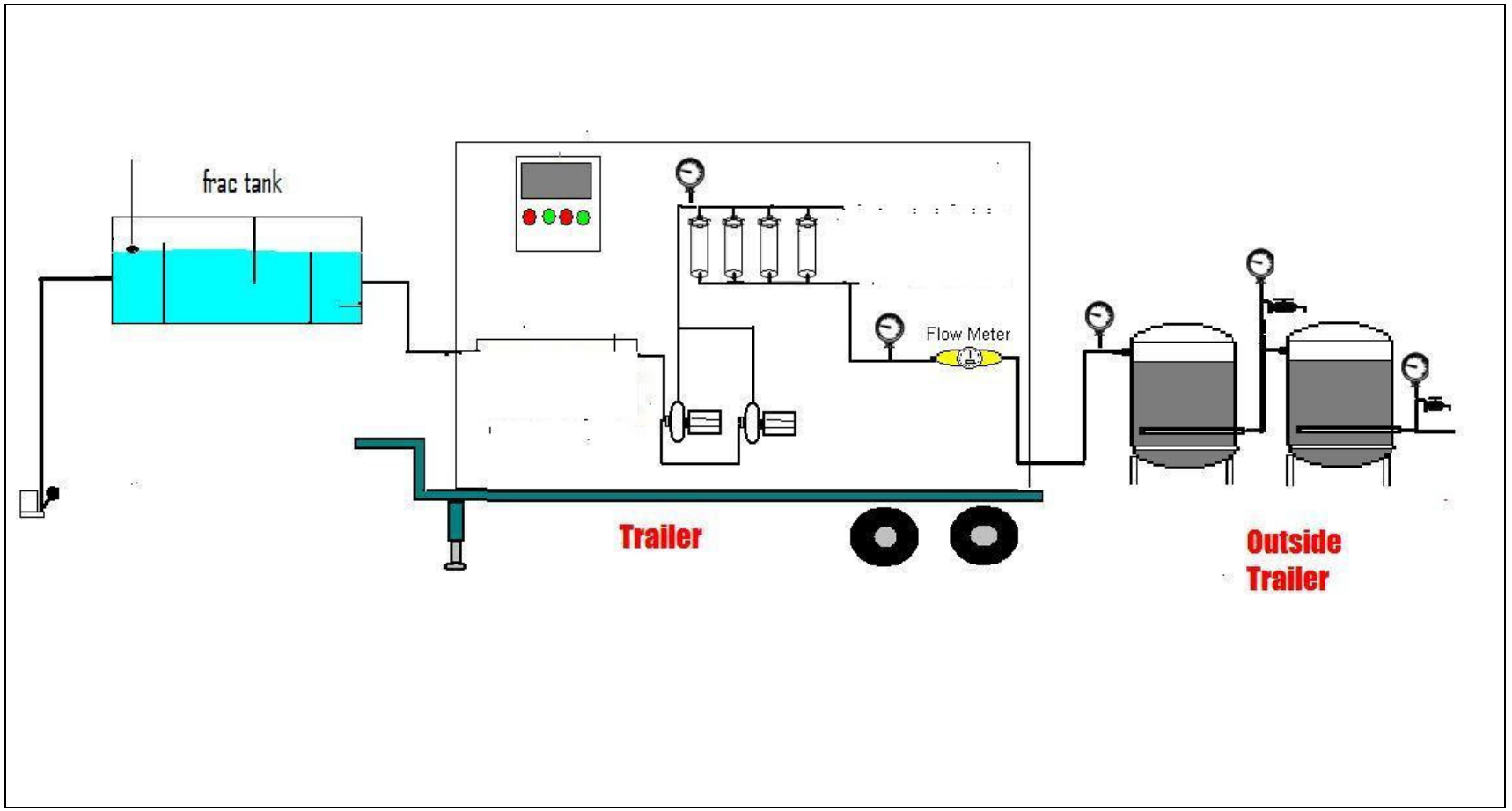
Steel construction, totally enclosed, cross style internal bracing and optional internal two part epoxy coating. Two 4" butterfly valves located at either end of the "V" shaped floor. Permanently attached axles for maximum maneuverability. Staircase attached to the front and a guard rail system on the roof of the tank. Optional Varec level gauge and vacuum pressure relief valve. Optional vapor recovery fitting. Three 22" vapor tight access hatches. Weight is 21,000 lbs.

RAIN FOR RENT

P.O. Box 2248 • Bakersfield CA 93303

800 742-7246 • 661-399-9124 • FAX 661 393-1542

Internet: www.rainforrent.com



ABOVE – View of Mobile Treatment Trailer Schematic:
Including: GAC filters and TW-72 units

ABOVE – View of Mobile Treatment Trailer
and GAC filters

NORIT Americas Inc.

The Purification Company

ISO 9001:2000
FM 39843

DATASHEET

No. 2273
Jun 2006

NORIT®GAC 840R

GRANULAR ACTIVATED CARBON

NORIT GAC 840R is a reactivated granular carbon produced under closely controlled operating conditions in our state-of-the-art facility. Quality and screen size are designed to provide high performance levels in the treatment of industrial and municipal wastewaters. **NORIT GAC 840R** is particularly suited for removal of color bodies, dissolved organics, and toxic compounds. This product is a recycled activated carbon and not for food grade or potable water applications.

Product Specifications

Iodine number, mg/g	750 min.
Abrasion number (AWWA)	70 min.
Moisture, % as packed	2 max.
Ash, %	11.0 max.
Mesh size (U.S. Sieve Series)	
Greater than 8 mesh (2.36 mm), %	15 max.
Less than 40 mesh (0.42 mm), %	4 max.

Typical Properties*

Molasses number	200
Apparent density, vibrating feed, g/mL	0.55
lb/ft^3	34
Bed density, backwashed and drained, lb/ft^3	30

*For general information only, not to be used as purchase specifications.

Packaging/Transportation

Standard package is woven polypropylene bulk bags, 1,000 lbs net.
Activated carbon (NOT REGULATED)
Exempt from DOT, IATA, and IMDG regulations
Import/Export classification: 3802.10.0000 (HS Tariff Classification)
Domestic Freight Classification: NMFC 040560
CAS # 7440-44-0

Material Handling

Wet activated carbon depletes oxygen from air and, therefore, dangerously low levels of oxygen may be encountered. Whenever workers enter a vessel containing activated carbon, the vessel's oxygen content should be determined and work procedures for potentially low oxygen areas should be followed. Appropriate protective equipment should be worn. Avoid inhalation of excessive carbon dust. No problems are known to be associated in handling this material. Please see the product Material Safety Data Sheet for details. Long-term inhalation of high dust concentrations can lead to respiratory impairment. Use forced ventilation or a dust mask when necessary for protection against airborne dust exposure (see Code of Federal Regulations - Title 29, Subpart Z, par. 1910.1000, Table Z-3).

(continued on reverse side)

3200 West University Avenue, Marshall, TX 75670
Telephone (903) 923-1000 • 1-800-641-9245 • FAX (903) 923-1003
www.norit-americas.com • info@norit-americas.com

NORIT
The Purification Company

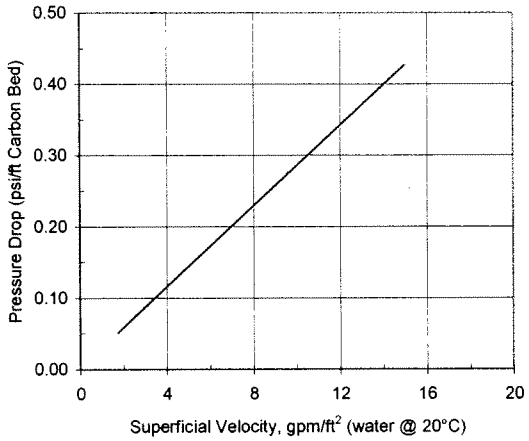
DATASHEET

No. 2273
Jun 2006

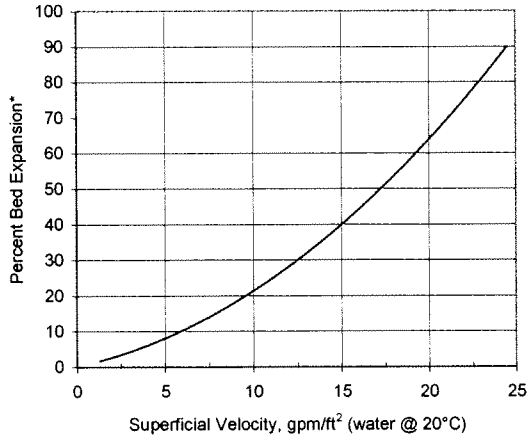
NORIT® GAC 840R
(continued)

Engineering Data

Pressure Drop Curve for NORIT GAC 840R



Bed Expansion Curve for NORIT GAC 840R



***Expansion is expressed as percent of the backwashed and settled bed depth.**

Note: Any specification given was valid at time of issuance of the publication. However, we maintain a policy of continuous development and reserve the right to amend any specification without notice.

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Telephone (903) 923-1000 • 1-800-641-9245 • FAX (903) 923-1003
www.norit-americas.com • info@norit-americas.com

NORIT
The Purification Company

ABOVE – View of Mobile Treatment Trailer
and particulate filters

ABOVE – View of Mobile Treatment Trailer
pumps and electrical panel

c) Attach a detailed map(s) indicating the site location and location of the outfall to the receiving water:
1. For multiple discharges, number the discharges sequentially.
2. For indirect dischargers, indicate the location of the discharge to the indirect conveyance and the discharge to surface water
The map should also include the location and distance to the nearest sanitary sewer as well as the locus of nearby sensitive receptors (based on USGS topographical mapping), such as surface waters, drinking water supplies, and wetland areas.

d) Provide the state water quality classification of the receiving water B,

e) Provide the reported or calculated seven day-ten year low flow (7Q10) of the receiving water 1458 cfs
Please attach any calculation sheets used to support stream flow and dilution calculations.

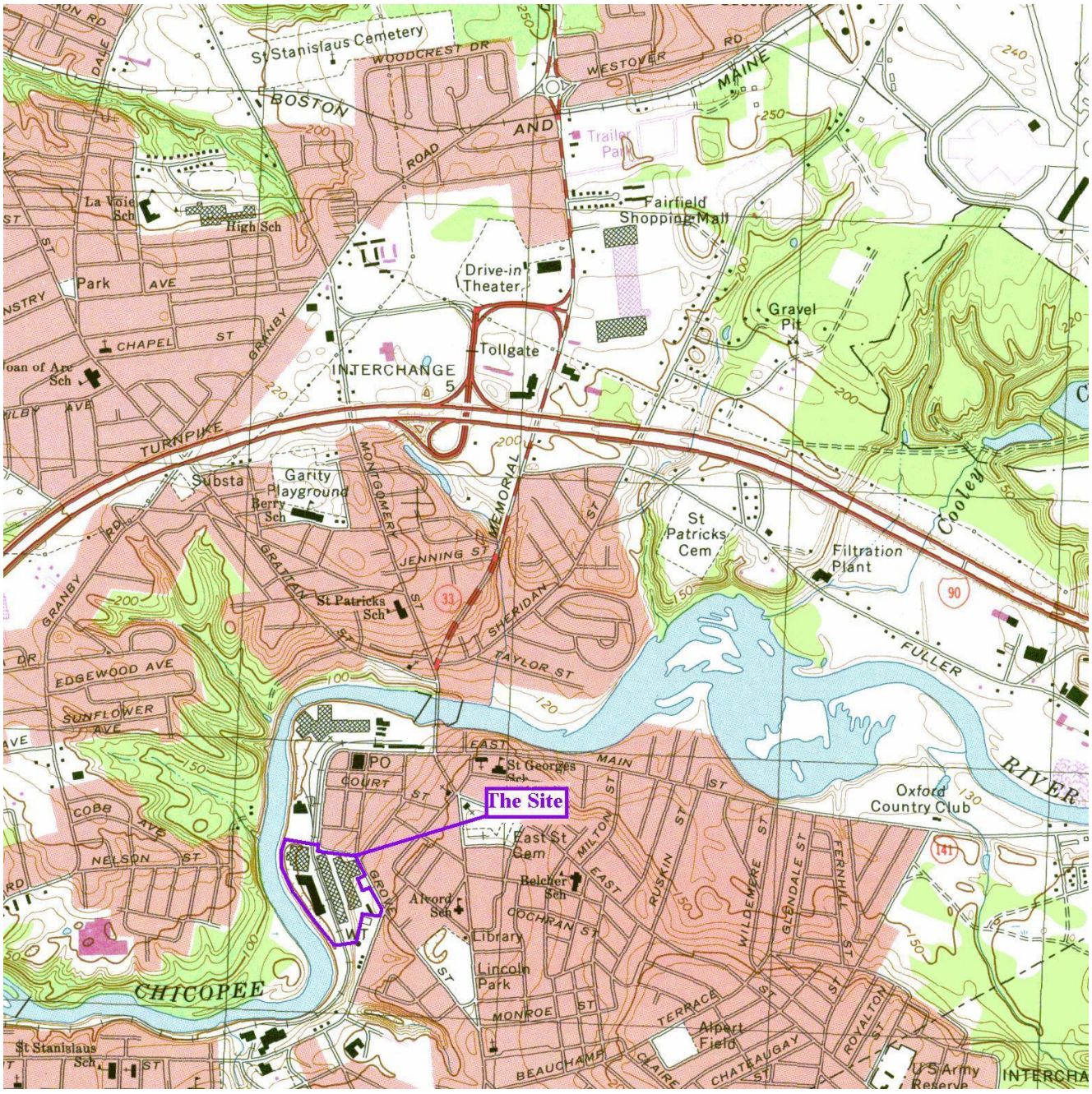
f) Is the receiving water a listed 303(d) water quality impaired or limited water? Yes ✔ No ☐ If yes, for which pollutant(s)?
Pathogens

Is there a TMDL? Yes ☐ No ✔ If yes, for which pollutant(s)?

6. Results of Consultation with Federal Services: Please provide the following information according to requirements of Part I.B.4 and Appendices II and VII.

a) Are any listed threatened or endangered species, or designated critical habitat, in proximity to the discharge? Yes ✔ No ☐
Has any consultation with the federal services been completed ? ✔ No ☐ or is consultation underway? Yes ☐ No ☐
What were the results of the consultation with the U.S. Fish and Wildlife Service and/or National Marine Fisheries Service (~~check~~ one):
a "no jeopardy" opinion? Yes ☐ or written concurrence ✔ on a finding that the discharges are not likely to adversely affect any endangered species or critical habitat?

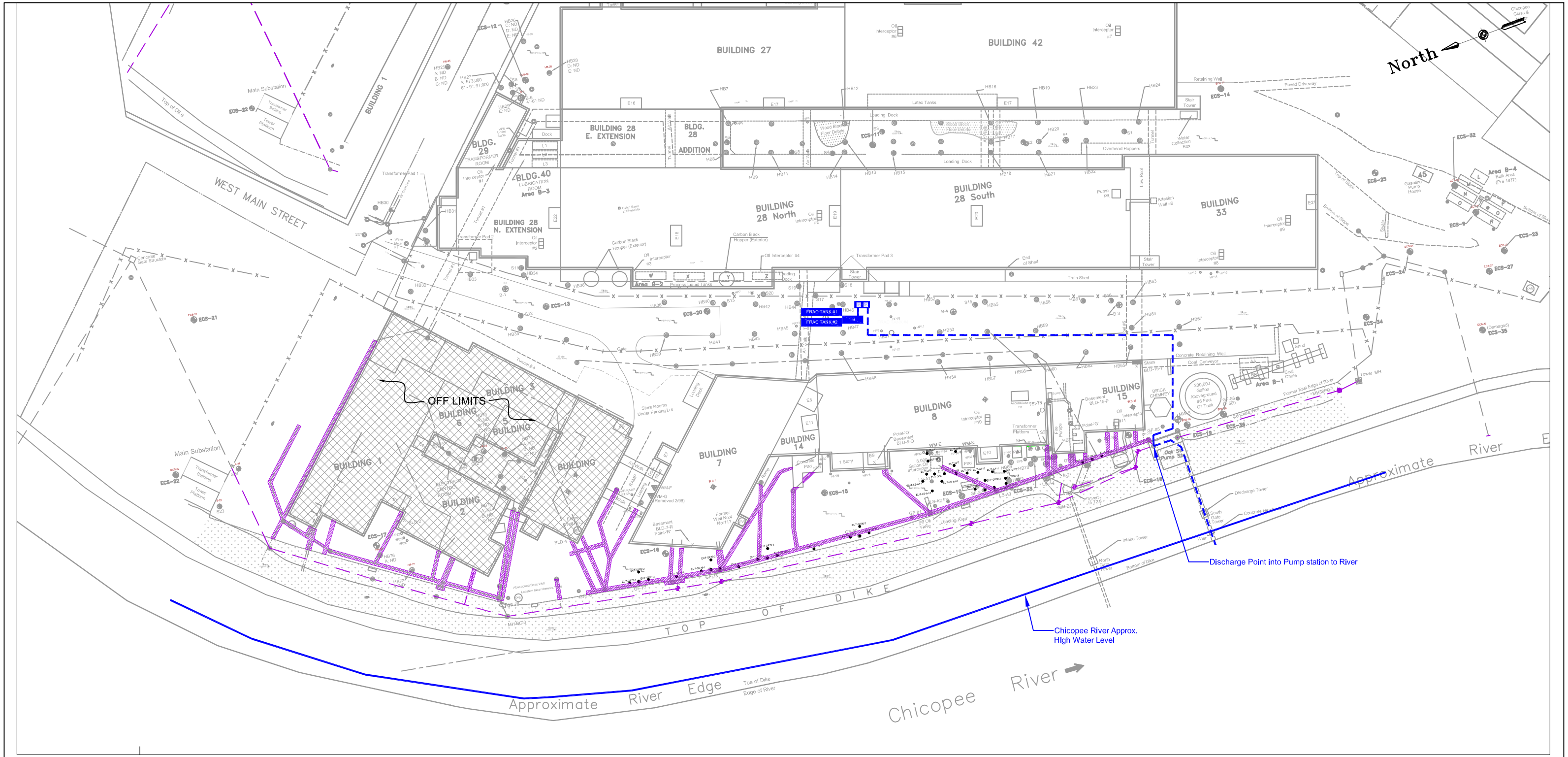
b) Are any historic properties listed or eligible for listing on the National Register of Historic Places located on the facility or site or in proximity to the discharge?
Yes ☐ No ✔ Have any state or tribal historic preservation officer been consulted in this determination (Massachusetts only)? Yes ☐ No ✔



Gannett Fleming
ENGINEERS AND PLANNERS

Figure 1: USGS – 4 Km Quad

SITE: Former Uniroyal Facility
154 Grove Street Chicopee, MA 01020



LEGEND

- CONCRETE (COMPOSITE) SAMPLE LOCATION
- SOIL SAMPLE LOCATION
- FORMER SAMPLE LOCATION
- ROOF MATERIAL SAMPLE LOCATION
- TRANSFORMER PAD (OUTLINE)
- APPROX. LIMITS OF SEDIMENT REMOVAL FROM ARMY 1965 DRAIN DURING PHASE I 2007 CONSTRUCTION SEASON
- APPROX. LIMITS OF INACTIVE DRAIN REMEDIATION DURING PHASE II 2008 CONSTRUCTION SEASON
- TREATMENT SYSTEM DISCHARGE

100 50 0 100

GRAPHIC SCALE: 1"=100'

Gannett Fleming
199 Wells Ave.
Newton MA 02459
617-527-7822

PROJECT: **Chicopee Industrial Park**
Grove Street
Chicopee, Massachusetts

TITLE: **FIGURE 1.0 – TREATMENT SYSTEM SITE PLAN**

CLIENT: **Chicopee Industrial Park**

AUTOCAD FILE: S11094R.DWG

SOURCE OF BASEMAP: ECS MARIN

7. Supplemental information. :

Please provide any supplemental information. Attach any analytical data used to support the application. Attach any certification(s) required by the general permit.

1998 USGS Low Flow Data Disk ("the red disk")

1

Log-Pearson Type III Statistics (formerly USGS Program A193, Jan. 1986)
Note -- Use of Log-Pearson Type III or Pearson-Type III distributions are for preliminary computations. User is responsible for assessment and interpretation.

✓01177000 Chicopee River at Indian Orchard, Mass.

Analysis for -- 12 month period
starting April 1
ending March 31
1929-1998

Parameter is 7-day low value.

0 zero values in data

68 non-zero values in data

141.143	114.714	183.571	142.429	201.714
251.286	168.000	207.571	323.429	473.857
139.571	163.714	102.857	174.286	141.000
153.429	273.571	213.429	126.429	209.857
148.429	165.286	258.143	201.000	114.286
323.429	215.429	222.714	174.429	281.429
279.143	292.286	258.429	225.000	113.429
186.286	96.429	127.286	158.714	179.143
184.143	204.143	218.143	264.857	169.571
138.000	204.429	159.571	184.286	220.286
234.429	160.286	152.286	288.429	202.429
182.857	350.429	194.000	154.571	98.286
265.429	211.429	279.571	339.000	127.571
230.714	165.429	346.143		

The following 7 statistics are based on non-zero values.

Mean (logs)	2.285
Variance (logs)	0.021
Standard Deviation (logs)	0.146
Skewness (logs)	0.132
Standard Error of Skewness (logs)	0.291
Serial Correlation Coefficient (logs)	0.112
Coefficient of Variation (logs)	0.064

1

01177000 Chicopee River at Indian Orchard, Mass.

Non-exceedance Probability	Recurrence Interval	Parameter Value

1985 Gazetteer = 128 cfs

0.0100	100.00	91.197
0.0200	50.00	99.067
0.0500	20.00	112.384
0.1000	10.00	125.963
0.2000	5.00	144.988
0.5000	2.00	191.253
0.8000	1.25	254.915
0.9000	1.11	297.477
0.9600	1.04	351.850
0.9800	1.02	392.846
0.9900	1.01	434.308

10 statistics added as attributes to users WDM file on data set 266
MEANND SDND SKWND NUMZRO NONZRO LDIST
L07020 L07010 L07005 L07002

MassGIS watershed area = 715 sq.mi.

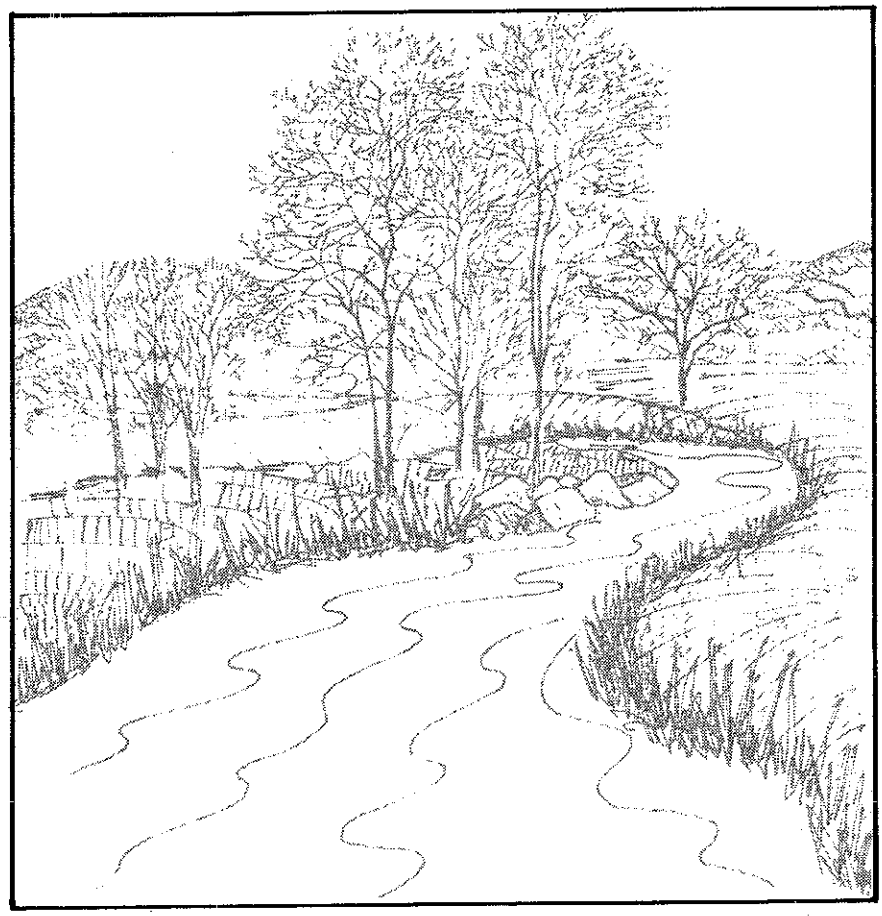
USGS Gazetteer watershed area = 689 sq mi.
at Indian Orchard

$$\frac{715 \text{ sq mi}}{689 \text{ sq mi}} \times 126 \text{ cfs} = 130 \text{ cfs} = 7Q10 \text{ at site}$$

K Keohane
5/25/07

Gazetteer of Hydrologic Characteristics of Streams in Massachusetts--Connecticut River Basin

U.S. GEOLOGICAL SURVEY
Water-Resources Investigations Report 84-4282



Prepared in cooperation with the
COMMONWEALTH OF MASSACHUSETTS
DEPARTMENT OF ENVIRONMENTAL QUALITY ENGINEERING
DIVISION OF WATER POLLUTION CONTROL

Table 4.—Streamflow characteristics, in cubic feet per second, at selected stream-gaging stations (Continued)

Flow	Station name and site number				
	Quaboag River at West Brimfield, Mass. (169)	Chicopee River Indian Orchard, Mass. (177)	Westfield River at West Chesterfield, Mass. (190)	Westfield River at Knightville, Mass. (191)	Sykes Brook at Knightville, Mass. (192)
MONTHLY (Continued)					
Q4	1352	3956	1026	1704	13.2
	545	1723	—	975	7.48
	216	636	412	302	2.56
SDQ4	230	730	—	351	3.09
Q5	573	2680	547	912	5.50
	312	1144	—	470	3.54
	128	471	218	166	1.34
SDQ5	122	463	—	210	1.40
Q6	655	2475	459	813	7.28
	176	715	—	235	1.98
	46.6	229	55.4	41.1	.41
SDQ6	136	430	—	183	1.80
Q7	324	1238	129	494	3.63
	93.2	451	—	126	.89
	17.6	159	27.1	25.0	.13
SDQ7	68.6	220	—	115	.93
Q8	1440	3719	89.2	745	9.12
	104	462	—	112	.86
	12.8	176	19.3	17.8	.07
SDQ8	214	587	—	138	1.73
Q9	526	1516	98.8	517	3.19
	82.1	289	—	112	.56
	12.0	160	10.8	14.8	.07
SDQ9	95.1	401	—	123	.71
LOW FLOW					
7Q2	26.6	192	—	21.0	.11
7Q10	13.2	128	—	10.9	.06

Table 3.—Basin characteristics for stream-gaging stations in the Connecticut River basin (Continued)

Basin characteristics	Station name and site number				
	Quaboag River at West Brimfield, Mass. (169)	Roaring Brook near Belchertown, Mass. (176)	Chicopee River at Indian Orchard, Mass. (177)	Mill Brook at Plainfield, Mass. (186)	Westfield River at West Chesterfield, Mass. (190)
Area, in square miles	150	2.74	689	4.45	110
Slope, in feet per mile	8.62	77.9	14.8	56.4	—
Length, in miles	28.3	2.7	58.1	2.6	—
Elevation, in feet	840	550	800	1680	—
Storage, in percent	3.86	1.73	—	.33	—
Lake area, in percent	2.77	.0	1.44	.04	—
Forest, in percent	59	66	53	88	—
Soils index, in inches	4.1	5.0	4.7	4.0	—
Latitude of gage, in decimal degrees	42.1800	42.2353	42.1606	42.5158	42.3967
Longitude of gage, in decimal degrees	72.2600	72.4050	72.5144	72.9250	72.8756
Precipitation, in inches	41.5	46.0	43.1	48.0	—
Precipitation intensity for 2-year recurrence interval, in inches	3.2	3.5	3.2	3.3	—
Snowfall, in inches	55	55	56	65	—
January minimum temperature, in degrees Fahrenheit	15	15	14	11	—

To: Alroy, Michael I.
Cc: Jeannine_Dube@fws.gov
Subject: Re: NPDES permit consultation Chicopee MA

Michael,

Based on information currently available to us, no federally-listed or proposed, threatened or endangered species or critical habitat under the jurisdiction of the U.S. Fish and Wildlife Service are known to occur in the project area(s). Preparation of a Biological Assessment or further consultation with us under Section 7 of the Endangered Species Act is not required.

This concludes our review of listed species and critical habitat in the project location(s) and environs referenced above. No further Endangered Species Act coordination of this type is necessary for a period of one year from the date of this letter, unless additional information on listed or proposed species becomes available.

Thanks for Coordinating.
Tony

J-
Pls. log
EA
Thank You.

Anthony Tur
Endangered Species Biologist
U.S. Fish and Wildlife Service
New England Field Office
70 Commercial Street, Suite 300
Concord, New Hampshire 03301

Phone (603) 223-2541 x.24
Anthony_Tur@fws.gov

Alroy, Michael I.

From: Julie Crocker [Julie.Crocker@Noaa.Gov]
Sent: Tuesday, May 29, 2007 2:43 PM
To: Alroy, Michael I.
Subject: NPDES remedial permit

Attachments: Julie.Crocker.vcf

Julie.Crocker.vcf
(370 B)

Mickey -

This is a follow up to our phone call on May 25, 2007. As noted on that call, no NMFS listed species are known to occur in the Chicopee River.
As such, no coordination with NMFS on the effects of your action on NMFS listed species is necessary.

Julie Crocker
Protected Resources Division
NMFS Northeast Regional Office

ALPHA ANALYTICAL LABORATORIES

Eight Walkup Drive
Westborough, Massachusetts 01581-1019
(508) 898-9220 www.alphalab.com

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

CERTIFICATE OF ANALYSIS

Client: Gannett Fleming

Address: 202 Wall Street

Princeton, NJ 08540

Attn: Mr. Guy Dalton

Project Number:

Site: CHICOPEE

Laboratory Job Number: L0707483

Date Received: 23-MAY-2007

Date Reported: 31-MAY-2007

Delivery Method: Alpha

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0707483-01	STORM DRAIN SAMPLE (68')	CHICOPEE, MA

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized by: _____
Technical Director

ALPHA ANALYTICAL LABORATORIES
NARRATIVE REPORT

Laboratory Job Number: L0707483

The samples were received in accordance with the chain of custody and no significant deviations were encountered during preparation or analysis unless otherwise noted below.

PCB

The WG281569 Method Blank has a low surrogate % recovery for Decachlorobiphenyl. The associated sample is non-detect with acceptable surrogate % recoveries, therefore, no further action was taken.

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0707483-01
STORM DRAIN SAMPLE (68')
Sample Matrix: WATER

Date Collected: 23-MAY-2007 13:00
Date Received : 23-MAY-2007
Date Reported : 31-MAY-2007

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 7-Amber,4-Plastic,4-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Solids, Total Suspended	ND	mg/l	5.0	4	160.2		0530 16:40	DW
Cyanide, Total	ND	mg/l	0.005	4	335.2	0524 15:45	0524 20:57	DD
Chlorine, Total Residual	ND	mg/l	0.02	4	330.1		0523 22:40	LR
TPH	ND	mg/l	4.00	74	1664A	0525 12:00	0529 10:30	AT
Phenolics, Total	ND	mg/l	0.03	4	420.1		0525 11:00	AT
Chromium, Hexavalent	ND	mg/l	0.010	30	3500CR-D	0523 22:25	0523 22:25	DP
Total Metals								
Antimony, Total	0.0008	mg/l	0.0005	1	6020	0524 15:00	0529 16:38	BM
Arsenic, Total	0.0011	mg/l	0.0005	1	6020	0524 15:00	0529 16:38	BM
Cadmium, Total	ND	mg/l	0.0002	1	6020	0524 15:00	0529 16:38	BM
Chromium, Total	ND	mg/l	0.0005	1	6020	0524 15:00	0529 16:38	BM
Copper, Total	0.0028	mg/l	0.0005	1	6020	0524 15:00	0529 16:38	BM
Iron, Total	0.67	mg/l	0.05	19	200.7	0524 15:00	0530 09:26	AI
Lead, Total	0.0016	mg/l	0.0005	1	6020	0524 15:00	0529 16:38	BM
Mercury, Total	ND	mg/l	0.0002	4	245.2	0525 20:00	0529 14:58	DM
Nickel, Total	0.0021	mg/l	0.0005	1	6020	0524 15:00	0529 16:38	BM
Selenium, Total	0.001	mg/l	0.001	1	6020	0524 15:00	0529 16:38	BM
Silver, Total	ND	mg/l	0.0004	1	6020	0524 15:00	0529 16:38	BM
Zinc, Total	0.0713	mg/l	0.0050	1	6020	0524 15:00	0529 16:38	BM
Pesticides by GC 504				14	504.1	0530 16:30	0530 18:41	SS
1,2-Dibromoethane	ND	ug/l	0.020					
1,2-Dibromo-3-chloropropane	ND	ug/l	0.020					
Volatile Organics by GC/MS 624				5	624		0530 17:42	BT
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	1.5					
Chloroform	ND	ug/l	1.5					
Carbon tetrachloride	ND	ug/l	1.0					
1,2-Dichloropropane	ND	ug/l	3.5					
Dibromochloromethane	ND	ug/l	1.0					
1,1,2-Trichloroethane	ND	ug/l	1.5					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0707483-01
STORM DRAIN SAMPLE (68')

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 624 cont'd				5	624		0530 17:42	BT
2-Chloroethylvinyl ether	ND	ug/l	10.					
Tetrachloroethene	ND	ug/l	1.5					
Chlorobenzene	ND	ug/l	3.5					
Trichlorofluoromethane	ND	ug/l	5.0					
1,2-Dichloroethane	ND	ug/l	1.5					
1,1,1-Trichloroethane	ND	ug/l	2.0					
Bromodichloromethane	ND	ug/l	1.0					
trans-1,3-Dichloropropene	ND	ug/l	1.5					
cis-1,3-Dichloropropene	ND	ug/l	1.5					
Bromoform	ND	ug/l	1.0					
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0					
Benzene	ND	ug/l	1.0					
Toluene	ND	ug/l	1.0					
Ethylbenzene	ND	ug/l	1.0					
Chloromethane	ND	ug/l	10.					
Bromomethane	ND	ug/l	5.0					
Vinyl chloride	ND	ug/l	2.0					
Chloroethane	ND	ug/l	2.0					
1,1-Dichloroethene	ND	ug/l	1.0					
trans-1,2-Dichloroethene	ND	ug/l	1.5					
cis-1,2-Dichloroethene	ND	ug/l	1.0					
Trichloroethene	ND	ug/l	1.0					
1,2-Dichlorobenzene	ND	ug/l	5.0					
1,3-Dichlorobenzene	ND	ug/l	5.0					
1,4-Dichlorobenzene	ND	ug/l	5.0					
p/m-Xylene	ND	ug/l	2.0					
o-xylene	ND	ug/l	1.0					
Xylene (Total)	ND	ug/l	2.0					
Styrene	ND	ug/l	1.0					
Acetone	ND	ug/l	10.					
Carbon disulfide	ND	ug/l	5.0					
2-Butanone	ND	ug/l	10.					
Vinyl acetate	ND	ug/l	20.					
4-Methyl-2-pentanone	ND	ug/l	10.					
2-Hexanone	ND	ug/l	10.					
Acrolein	ND	ug/l	8.0					
Acrylonitrile	ND	ug/l	10.					
Methyl tert butyl ether	ND	ug/l	20.					
1,4-Dioxane	ND	ug/l	2000					
Tert-Butyl Alcohol	ND	ug/l	100					
Tertiary-Amyl Methyl Ether	ND	ug/l	20.					
Surrogate(s)	Recovery		QC Criteria					
Pentafluorobenzene	101	%	80-120					
Fluorobenzene	97.0	%	80-120					
4-Bromofluorobenzene	93.0	%	80-120					
SVOC's by GC/MS 8270				1	8270C	0525 10:30	0529 16:10	RL
Acenaphthene	ND	ug/l	5.0					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0707483-01
STORM DRAIN SAMPLE (68')

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
SVOC's by GC/MS 8270 cont'd				1	8270C	0525 10:30	0529 16:10	RL
Benzidine	ND	ug/l	50.					
1,2,4-Trichlorobenzene	ND	ug/l	5.0					
Hexachlorobenzene	ND	ug/l	5.0					
Bis(2-chloroethyl)ether	ND	ug/l	5.0					
1-Chloronaphthalene	ND	ug/l	5.0					
2-Chloronaphthalene	ND	ug/l	6.0					
1,2-Dichlorobenzene	ND	ug/l	5.0					
1,3-Dichlorobenzene	ND	ug/l	5.0					
1,4-Dichlorobenzene	ND	ug/l	5.0					
3,3'-Dichlorobenzidine	ND	ug/l	50.					
2,4-Dinitrotoluene	ND	ug/l	6.0					
2,6-Dinitrotoluene	ND	ug/l	5.0					
Azobenzene	ND	ug/l	5.0					
Fluoranthene	ND	ug/l	5.0					
4-Chlorophenyl phenyl ether	ND	ug/l	5.0					
4-Bromophenyl phenyl ether	ND	ug/l	5.0					
Bis(2-chloroisopropyl)ether	ND	ug/l	5.0					
Bis(2-chloroethoxy)methane	ND	ug/l	5.0					
Hexachlorobutadiene	ND	ug/l	10.					
Hexachlorocyclopentadiene	ND	ug/l	30.					
Hexachloroethane	ND	ug/l	5.0					
Isophorone	ND	ug/l	5.0					
Naphthalene	ND	ug/l	5.0					
Nitrobenzene	ND	ug/l	5.0					
NDPA/DPA	ND	ug/l	15.					
n-Nitrosodi-n-propylamine	ND	ug/l	5.0					
Bis(2-ethylhexyl)phthalate	ND	ug/l	5.0					
Butyl benzyl phthalate	ND	ug/l	5.0					
Di-n-butylphthalate	ND	ug/l	5.0					
Di-n-octylphthalate	ND	ug/l	5.0					
Diethyl phthalate	ND	ug/l	5.0					
Dimethyl phthalate	ND	ug/l	5.0					
Benzo(a)anthracene	ND	ug/l	5.0					
Benzo(a)pyrene	ND	ug/l	5.0					
Benzo(b)fluoranthene	ND	ug/l	5.0					
Benzo(k)fluoranthene	ND	ug/l	5.0					
Chrysene	ND	ug/l	5.0					
Acenaphthylene	ND	ug/l	5.0					
Anthracene	ND	ug/l	5.0					
Benzo(ghi)perylene	ND	ug/l	5.0					
Fluorene	ND	ug/l	5.0					
Phenanthrene	ND	ug/l	5.0					
Dibenzo(a,h)anthracene	ND	ug/l	5.0					
Indeno(1,2,3-cd)pyrene	ND	ug/l	7.0					
Pyrene	ND	ug/l	5.0					
Benzo(e)pyrene	ND	ug/l	5.0					
Biphenyl	ND	ug/l	5.0					
Perylene	ND	ug/l	5.0					
Aniline	ND	ug/l	20.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0707483-01
STORM DRAIN SAMPLE (68')

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
SVOC's by GC/MS 8270 cont'd				1	8270C	0525 10:30	0529 16:10	RL
4-Chloroaniline	ND	ug/l	5.0					
1-Methylnaphthalene	ND	ug/l	5.0					
2-Nitroaniline	ND	ug/l	5.0					
3-Nitroaniline	ND	ug/l	5.0					
4-Nitroaniline	ND	ug/l	7.0					
Dibenzofuran	ND	ug/l	5.0					
a,a-Dimethylphenethylamine	ND	ug/l	50.					
Hexachloropropene	ND	ug/l	10.					
Nitrosodi-n-butylamine	ND	ug/l	10.					
2-Methylnaphthalene	ND	ug/l	5.0					
1,2,4,5-Tetrachlorobenzene	ND	ug/l	20.					
Pentachlorobenzene	ND	ug/l	20.					
a-Naphthylamine	ND	ug/l	25.					
b-Naphthylamine	ND	ug/l	20.					
Phenacetin	ND	ug/l	10.					
Dimethoate	ND	ug/l	20.					
4-Aminobiphenyl	ND	ug/l	10.					
Pentachloronitrobenzene	ND	ug/l	10.					
Isodrin	ND	ug/l	10.					
p-Dimethylaminoazobenzene	ND	ug/l	10.					
Chlorobenzilate	ND	ug/l	20.					
3-Methylcholanthrene	ND	ug/l	20.					
Ethyl Methanesulfonate	ND	ug/l	15.					
Acetophenone	ND	ug/l	20.					
Nitrosodipiperidine	ND	ug/l	20.					
7,12-Dimethylbenz(a)anthracene	ND	ug/l	20.					
n-Nitrosodimethylamine	ND	ug/l	50.					
2,4,6-Trichlorophenol	ND	ug/l	5.0					
p-Chloro-m-cresol	ND	ug/l	5.0					
2-Chlorophenol	ND	ug/l	6.0					
2,4-Dichlorophenol	ND	ug/l	10.					
2,4-Dimethylphenol	ND	ug/l	10.					
2-Nitrophenol	ND	ug/l	20.					
4-Nitrophenol	ND	ug/l	10.					
2,4-Dinitrophenol	ND	ug/l	30.					
4,6-Dinitro-o-cresol	ND	ug/l	20.					
Pentachlorophenol	ND	ug/l	10.					
Phenol	ND	ug/l	7.0					
2-Methylphenol	ND	ug/l	6.0					
3-Methylphenol/4-Methylphenol	ND	ug/l	6.0					
2,4,5-Trichlorophenol	ND	ug/l	5.0					
2,6-Dichlorophenol	ND	ug/l	10.					
Benzoic Acid	ND	ug/l	50.					
Benzyl Alcohol	ND	ug/l	10.					
Carbazole	ND	ug/l	5.0					
Pyridine	ND	ug/l	50.					
2-Picoline	ND	ug/l	20.					
Pronamide	ND	ug/l	20.					
Methyl methanesulfonate	ND	ug/l	20.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0707483-01
STORM DRAIN SAMPLE (68')

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
SVOC's by GC/MS 8270 cont'd				1	8270C	0525 10:30	0529 16:10	RL
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	35.0	%	21-120					
Phenol-d6	28.0	%	10-120					
Nitrobenzene-d5	63.0	%	23-120					
2-Fluorobiphenyl	61.0	%	43-120					
2,4,6-Tribromophenol	83.0	%	10-120					
4-Terphenyl-d14	88.0	%	33-120					
PAH by GC/MS SIM 8270M				1	8270C-M	0525 10:30	0531 12:55	RL
Acenaphthene	ND	ug/l	0.20					
2-Chloronaphthalene	ND	ug/l	0.20					
Fluoranthene	ND	ug/l	0.20					
Hexachlorobutadiene	ND	ug/l	0.50					
Naphthalene	ND	ug/l	0.20					
Benzo(a)anthracene	ND	ug/l	0.20					
Benzo(a)pyrene	ND	ug/l	0.20					
Benzo(b)fluoranthene	ND	ug/l	0.20					
Benzo(k)fluoranthene	ND	ug/l	0.20					
Chrysene	ND	ug/l	0.20					
Acenaphthylene	ND	ug/l	0.20					
Anthracene	ND	ug/l	0.20					
Benzo(ghi)perylene	ND	ug/l	0.20					
Fluorene	ND	ug/l	0.20					
Phenanthrene	ND	ug/l	0.20					
Dibenzo(a,h)anthracene	ND	ug/l	0.20					
Indeno(1,2,3-cd)Pyrene	ND	ug/l	0.20					
Pyrene	ND	ug/l	0.20					
1-Methylnaphthalene	ND	ug/l	0.20					
2-Methylnaphthalene	ND	ug/l	0.20					
Pentachlorophenol	ND	ug/l	0.80					
Hexachlorobenzene	ND	ug/l	0.80					
Perylene	ND	ug/l	0.20					
Biphenyl	ND	ug/l	0.20					
2,6-Dimethylnaphthalene	ND	ug/l	0.20					
1-Methylphenanthrene	ND	ug/l	0.20					
Benzo(e)Pyrene	ND	ug/l	0.20					
Hexachloroethane	ND	ug/l	0.80					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	34.0	%	21-120					
Phenol-d6	29.0	%	10-120					
Nitrobenzene-d5	60.0	%	23-120					
2-Fluorobiphenyl	51.0	%	43-120					
2,4,6-Tribromophenol	70.0	%	10-120					
4-Terphenyl-d14	69.0	%	33-120					
Polychlorinated Biphenyls				5	608	0524 20:45	0529 11:45	SS
Aroclor 1016	ND	ug/l	0.250					
Aroclor 1221	ND	ug/l	0.250					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0707483-01
STORM DRAIN SAMPLE (68')

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Polychlorinated Biphenyls cont'd				5	608	0524 20:45	0529 11:45	SS
Aroclor 1232	ND	ug/l	0.250					
Aroclor 1242	ND	ug/l	0.250					
Aroclor 1248	ND	ug/l	0.250					
Aroclor 1254	ND	ug/l	0.250					
Aroclor 1260	ND	ug/l	0.250					
Surrogate(s)	Recovery		QC Criteria					
2,4,5,6-Tetrachloro-m-xylene	49.0	%	30-150					
Decachlorobiphenyl	68.0	%	30-150					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L0707483

Parameter	Value 1	Value 2	Units	RPD	RPD Limits
Solids, Total Suspended for sample(s) 01 (L0707426-01, WG282009-2)					
Solids, Total Suspended	370	350	mg/l	6	20
Cyanide, Total for sample(s) 01 (L0707483-01, WG281492-4)					
Cyanide, Total	ND	ND	mg/l	NC	30
Chlorine, Total Residual for sample(s) 01 (L0707483-01, WG281400-3)					
Chlorine, Total Residual	ND	ND	mg/l	NC	
TPH for sample(s) 01 (L0707418-01, WG281815-4)					
TPH	ND	ND	mg/l	NC	34
Phenolics, Total for sample(s) 01 (L0707419-01, WG281665-4)					
Phenolics, Total	ND	ND	mg/l	NC	12
Chromium, Hexavalent for sample(s) 01 (L0707483-01, WG281389-4)					
Chromium, Hexavalent	ND	ND	mg/l	NC	20
Total Metals for sample(s) 01 (L0707419-01, WG281517-1)					
Antimony, Total	0.0008	0.0008	mg/l	1	20
Cadmium, Total	ND	ND	mg/l	NC	20
Chromium, Total	ND	ND	mg/l	NC	20
Copper, Total	0.0028	0.0027	mg/l	2	20
Lead, Total	0.0016	0.0016	mg/l	2	20
Zinc, Total	0.0707	0.0689	mg/l	3	20
Total Metals for sample(s) 01 (L0707419-01, WG281538-1)					
Iron, Total	0.60	0.64	mg/l	6	
Total Metals for sample(s) 01 (L0707483-01, WG281713-3)					
Mercury, Total	ND	ND	mg/l	NC	
Volatile Organics by GC/MS 624 for sample(s) 01 (L0707485-06, WG282016-2)					
Chlorobenzene	ND	ND	ug/l	NC	30
Benzene	ND	ND	ug/l	NC	30
1,2-Dichlorobenzene	ND	ND	ug/l	NC	30
Surrogate(s)	Recovery				QC Criteria
Pentafluorobenzene	105	106	%		80-120
Fluorobenzene	107	106	%		80-120
4-Bromofluorobenzene	99.0	94.0	%		80-120
Polychlorinated Biphenyls for sample(s) 01 (L0707483-01, WG281569-5)					
Aroclor 1016	ND	ND	ug/l	NC	30
Aroclor 1221	ND	ND	ug/l	NC	30
Aroclor 1232	ND	ND	ug/l	NC	30
Aroclor 1242	ND	ND	ug/l	NC	30
Aroclor 1248	ND	ND	ug/l	NC	30
Aroclor 1254	ND	ND	ug/l	NC	30

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L0707483

Continued

Parameter	Value 1	Value 2	Units	RPD	RPD Limits
Polychlorinated Biphenyls for sample(s) 01 (L0707483-01, WG281569-5)					
Aroclor 1260	ND	ND	ug/l	NC	30
Surrogate(s)	Recovery				QC Criteria
2,4,5,6-Tetrachloro-m-xylene	49.0	51.0	%		30-150
Decachlorobiphenyl	68.0	96.0	%		30-150

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0707483

Parameter	% Recovery	QC Criteria
Cyanide, Total LCS for sample(s) 01 (WG281492-1)		
Cyanide, Total	98	90-110
Chlorine, Total Residual LCS for sample(s) 01 (WG281400-2)		
Chlorine, Total Residual	101	
TPH LCS for sample(s) 01 (WG281815-2)		
TPH	90	64-132
Phenolics, Total LCS for sample(s) 01 (WG281665-2)		
Phenolics, Total	95	82-111
Chromium, Hexavalent LCS for sample(s) 01 (WG281389-2)		
Chromium, Hexavalent	98	85-115
Total Metals LCS for sample(s) 01 (WG281517-4)		
Antimony, Total	101	80-120
Arsenic, Total	93	80-120
Cadmium, Total	112	80-120
Chromium, Total	105	80-120
Copper, Total	104	80-120
Lead, Total	107	80-120
Nickel, Total	108	80-120
Selenium, Total	97	80-120
Silver, Total	96	80-120
Zinc, Total	99	80-120
Total Metals LCS for sample(s) 01 (WG281538-4)		
Iron, Total	93	
Total Metals LCS for sample(s) 01 (WG281713-1)		
Mercury, Total	106	
Pesticides by GC 504 LCS for sample(s) 01 (WG282111-2)		
1,2-Dibromoethane	106	70-130
1,2-Dibromo-3-chloropropane	119	70-130
Volatile Organics by GC/MS 624 LCS for sample(s) 01 (WG282016-7)		
Methylene chloride	73	10-221
1,1-Dichloroethane	76	59-155
Chloroform	70	51-138
Carbon tetrachloride	74	70-140
1,2-Dichloropropane	78	10-210
Dibromochloromethane	94	53-149
1,1,2-Trichloroethane	103	52-150
2-Chloroethylvinyl ether	103	10-305
Tetrachloroethene	103	64-148
Chlorobenzene	116	37-160
Trichlorofluoromethane	88	17-181

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0707483

Continued

Parameter	% Recovery	QC Criteria
Volatile Organics by GC/MS 624 LCS for sample(s) 01 (WG282016-7)		
1,2-Dichloroethane	78	49-155
1,1,1-Trichloroethane	74	52-162
Bromodichloromethane	94	35-155
trans-1,3-Dichloropropene	91	17-183
cis-1,3-Dichloropropene	95	10-227
Bromoform	102	45-169
1,1,2,2-Tetrachloroethane	116	46-157
Benzene	81	37-151
Toluene	104	47-150
Ethylbenzene	123	37-162
Chloromethane	71	10-273
Bromomethane	56	10-242
Vinyl chloride	86	10-251
Chloroethane	89	14-230
1,1-Dichloroethene	81	10-234
trans-1,2-Dichloroethene	77	54-156
cis-1,2-Dichloroethene	78	60-140
Trichloroethene	79	71-157
1,2-Dichlorobenzene	113	18-190
1,3-Dichlorobenzene	112	59-156
1,4-Dichlorobenzene	112	18-190
p/m-Xylene	121	40-160
o-Xylene	120	40-160
XYLENE (TOTAL)	121	40-160
Styrene	109	40-160
Acetone	81	40-160
Carbon disulfide	75	40-160
2-Butanone	79	40-160
Vinyl acetate	76	40-160
4-Methyl-2-pentanone	108	40-160
2-Hexanone	106	40-160
Acrolein	70	40-160
Acrylonitrile	80	40-160
Surrogate(s)		
Pentafluorobenzene	108	80-120
Fluorobenzene	100	80-120
4-Bromofluorobenzene	94	80-120
SVOC's by GC/MS 8270 LCS for sample(s) 01 (WG281629-2)		
Acenaphthene	62	46-118
1,2,4-Trichlorobenzene	51	39-98
2-Chloronaphthalene	58	40-140
1,2-Dichlorobenzene	46	40-140
1,4-Dichlorobenzene	43	36-97
2,4-Dinitrotoluene	87	24-96
2,6-Dinitrotoluene	79	40-140
Fluoranthene	92	40-140

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0707483

Continued

Parameter	% Recovery	QC Criteria
SVOC's by GC/MS 8270 LCS for sample(s) 01 (WG281629-2)		
4-Chlorophenyl phenyl ether	70	40-140
n-Nitrosodi-n-propylamine	51	41-116
Butyl benzyl phthalate	88	40-140
Anthracene	67	40-140
Pyrene	91	26-127
Hexachloropropene	42	40-140
P-Chloro-M-Cresol	62	23-97
2-Chlorophenol	46	27-123
2-Nitrophenol	52	30-130
4-Nitrophenol	40	10-80
2,4-Dinitrophenol	79	30-130
Pentachlorophenol	82	9-103
Phenol	23	12-110
Surrogate(s)		
2-Fluorophenol	33	21-120
Phenol-d6	28	10-120
Nitrobenzene-d5	54	23-120
2-Fluorobiphenyl	61	43-120
2,4,6-Tribromophenol	86	10-120
4-Terphenyl-d14	93	33-120
PAH by GC/MS SIM 8270M LCS for sample(s) 01 (WG282121-2)		
Acenaphthene	56	40-140
2-Chloronaphthalene	51	40-140
Fluoranthene	90	40-140
Anthracene	66	40-140
Pyrene	88	40-140
Pentachlorophenol	51	30-130
Surrogate(s)		
2-Fluorophenol	35	21-120
Phenol-d6	30	10-120
Nitrobenzene-d5	55	23-120
2-Fluorobiphenyl	51	43-120
2,4,6-Tribromophenol	68	10-120
4-Terphenyl-d14	92	33-120
Polychlorinated Biphenyls LCS for sample(s) 01 (WG281569-2)		
Aroclor 1016	55	40-140
Aroclor 1260	80	40-140
Surrogate(s)		
2,4,5,6-Tetrachloro-m-xylene	47	30-150
Decachlorobiphenyl	34	30-150

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0707483

Continued

Parameter	% Recovery	QC Criteria
Cyanide, Total SPIKE for sample(s) 01 (L0707400-11, WG281492-3)		
Cyanide, Total	98	80-120
TPH SPIKE for sample(s) 01 (L0707418-02, WG281815-3)		
TPH	84	64-132
Phenolics, Total SPIKE for sample(s) 01 (L0707419-02, WG281665-3)		
Phenolics, Total	94	77-124
Chromium, Hexavalent SPIKE for sample(s) 01 (L0707483-01, WG281389-3)		
Chromium, Hexavalent	97	85-115
Total Metals SPIKE for sample(s) 01 (L0707419-01, WG281517-2)		
Antimony, Total	104	80-120
Arsenic, Total	99	80-120
Cadmium, Total	114	80-120
Chromium, Total	106	80-120
Copper, Total	105	80-120
Lead, Total	111	80-120
Nickel, Total	106	80-120
Selenium, Total	97	80-120
Silver, Total	98	80-120
Zinc, Total	102	80-120
Total Metals SPIKE for sample(s) 01 (L0707419-01, WG281538-2)		
Iron, Total	90	
Total Metals SPIKE for sample(s) 01 (L0707483-01, WG281713-2)		
Mercury, Total	130	
Pesticides by GC 504 SPIKE for sample(s) 01 (L0707483-01, WG282111-3)		
1,2-Dibromoethane	103	
1,2-Dibromo-3-chloropropane	120	
Volatile Organics by GC/MS 624 SPIKE for sample(s) 01 (L0707635-04, WG282016-1)		
Methylene chloride	90	10-221
1,1-Dichloroethane	99	59-155
Chloroform	86	51-138
Carbon tetrachloride	96	70-140
1,2-Dichloropropane	99	10-210
Dibromochloromethane	80	53-149
1,1,2-Trichloroethane	88	52-150
2-Chloroethylvinyl ether	90	10-305
Tetrachloroethene	93	64-148
Chlorobenzene	88	37-160
Trichlorofluoromethane	111	17-181
1,2-Dichloroethane	98	49-155
1,1,1-Trichloroethane	95	52-162
Bromodichloromethane	82	35-155

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0707483

Continued

Parameter	% Recovery	QC Criteria
Volatile Organics by GC/MS 624 SPIKE for sample(s) 01 (L0707635-04, WG282016-1)		
trans-1,3-Dichloropropene	77	17-183
cis-1,3-Dichloropropene	73	10-227
Bromoform	75	45-169
1,1,2,2-Tetrachloroethane	87	46-157
Benzene	104	35-151
Toluene	93	47-150
Ethylbenzene	94	37-162
Chloromethane	85	10-273
Bromomethane	70	10-242
Vinyl chloride	105	10-251
Chloroethane	115	14-230
1,1-Dichloroethene	100	10-234
trans-1,2-Dichloroethene	99	54-156
cis-1,2-Dichloroethene	99	60-140
Trichloroethene	100	71-157
1,2-Dichlorobenzene	86	18-190
1,3-Dichlorobenzene	86	59-156
1,4-Dichlorobenzene	86	18-190
p/m-Xylene	93	40-160
o-Xylene	94	40-160
XYLENE (TOTAL)	93	40-160
Styrene	84	40-160
Acetone	112	40-160
Carbon disulfide	99	40-160
2-Butanone	113	40-160
Vinyl acetate	104	40-160
4-Methyl-2-pentanone	103	40-160
2-Hexanone	103	40-160
Acrolein	18	40-160
Acrylonitrile	121	40-160
Surrogate(s)		
Pentafluorobenzene	105	80-120
Fluorobenzene	107	80-120
4-Bromofluorobenzene	96	80-120
Polychlorinated Biphenyls SPIKE for sample(s) 01 (L0707454-01, WG281569-3)		
Aroclor 1016	72	40-140
Aroclor 1260	85	40-140
Surrogate(s)		
2,4,5,6-Tetrachloro-m-xylene	47	30-150
Decachlorobiphenyl	70	30-150

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH MS/MSD ANALYSIS

Laboratory Job Number: L0707483

Parameter	MS %	MSD %	RPD	RPD Limit	MS/MSD Limits
SVOC's by GC/MS 8270 for sample(s) 01 (L0707419-02, WG281629-4)					
Acenaphthene	68	63	8	30	46-118
1,2,4-Trichlorobenzene	54	54	0	30	39-98
2-Chloronaphthalene	68	63	8	30	40-140
1,2-Dichlorobenzene	45	45	0	30	40-140
1,4-Dichlorobenzene	45	45	0	30	36-97
2,4-Dinitrotoluene	95	86	10	30	24-96
2,6-Dinitrotoluene	90	86	5	30	40-140
Fluoranthene	95	90	5	30	40-140
4-Chlorophenyl phenyl ether	81	72	12	30	40-140
n-Nitrosodi-n-propylamine	59	50	17	30	41-116
Butyl benzyl phthalate	99	90	10	30	40-140
Anthracene	68	63	8	30	40-140
Pyrene	90	90	0	30	26-127
Hexachloropropene	54	54	0	30	40-140
P-Chloro-M-Cresol	72	68	6	30	23-97
2-Chlorophenol	50	50	0	30	27-123
2-Nitrophenol	59	52	13	30	30-130
4-Nitrophenol	65	63	3	30	10-80
2,4-Dinitrophenol	90	79	13	30	30-130
Pentachlorophenol	86	81	6	30	9-103
Phenol	38	36	5	30	12-110
Surrogate(s)					
2-Fluorophenol	45	44	2		21-120
Phenol-d6	47	46	2		10-120
Nitrobenzene-d5	59	57	3		23-120
2-Fluorobiphenyl	68	65	5		43-120
2,4,6-Tribromophenol	85	85	0		10-120
4-Terphenyl-d14	100	98	2		33-120
PAH by GC/MS SIM 8270M for sample(s) 01 (L0706198-51, WG282121-4)					
Acenaphthene	63	59	7	40	40-140
2-Chloronaphthalene	59	59	0	40	40-140
Fluoranthene	95	90	5	40	40-140
Anthracene	68	68	0	40	40-140
Pyrene	90	90	0	40	40-140
Pentachlorophenol	54	59	9	40	30-130
Surrogate(s)					
2-Fluorophenol	48	51	6		21-120
Phenol-d6	52	56	7		10-120
Nitrobenzene-d5	59	63	7		23-120
2-Fluorobiphenyl	58	59	2		43-120
2,4,6-Tribromophenol	77	76	1		10-120
4-Terphenyl-d14	97	96	1		33-120

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0707483

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01 (WG282009-1)								
Solids, Total Suspended	ND	mg/l	5.0	4	160.2		0530 16:40	DW
Blank Analysis for sample(s) 01 (WG281492-2)								
Cyanide, Total	ND	mg/l	0.005	4	335.2	0524 15:45	0524 20:46	DD
Blank Analysis for sample(s) 01 (WG281400-1)								
Chlorine, Total Residual	ND	mg/l	0.02	4	330.1		0523 22:40	LR
Blank Analysis for sample(s) 01 (WG281815-1)								
TPH	ND	mg/l	4.00	74	1664A	0525 12:00	0529 10:30	AT
Blank Analysis for sample(s) 01 (WG281665-1)								
Phenolics, Total	ND	mg/l	0.03	4	420.1		0525 11:00	AT
Blank Analysis for sample(s) 01 (WG281389-1)								
Chromium, Hexavalent	ND	mg/l	0.010	30	3500CR-D	0523 22:25	0523 22:25	DP
Blank Analysis for sample(s) 01 (WG281517-3)								
Total Metals								
Antimony, Total	ND	mg/l	0.0005	1	6020	0524 15:00	0529 15:09	BM
Arsenic, Total	ND	mg/l	0.0005	1	6020	0524 15:00	0529 15:09	BM
Cadmium, Total	ND	mg/l	0.0002	1	6020	0524 15:00	0529 15:09	BM
Chromium, Total	ND	mg/l	0.0005	1	6020	0524 15:00	0529 15:09	BM
Copper, Total	ND	mg/l	0.0005	1	6020	0524 15:00	0529 15:09	BM
Lead, Total	ND	mg/l	0.0005	1	6020	0524 15:00	0529 15:09	BM
Nickel, Total	ND	mg/l	0.0005	1	6020	0524 15:00	0529 15:09	BM
Selenium, Total	ND	mg/l	0.001	1	6020	0524 15:00	0529 15:09	BM
Silver, Total	ND	mg/l	0.0004	1	6020	0524 15:00	0529 15:09	BM
Zinc, Total	ND	mg/l	0.0050	1	6020	0524 15:00	0529 15:09	BM
Blank Analysis for sample(s) 01 (WG281538-3)								
Total Metals				19	200.7			
Iron, Total	ND	mg/l	0.05	19	200.7	0524 15:00	0530 09:06	AI

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0707483

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01 (WG281713-4)								
Total Metals								
Mercury, Total	ND	mg/l	0.0002	4	245.2	0525 20:00	0529 14:34	DM
Blank Analysis for sample(s) 01 (WG282111-1)								
Pesticides by GC 504				14	504.1	0530 16:30	0530 17:34	SS
1,2-Dibromoethane	ND	ug/l	0.020					
1,2-Dibromo-3-chloropropane	ND	ug/l	0.020					
Blank Analysis for sample(s) 01 (WG282016-8)								
Volatile Organics by GC/MS 624				5	624		0530 15:40	BT
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	1.5					
Chloroform	ND	ug/l	1.5					
Carbon tetrachloride	ND	ug/l	1.0					
1,2-Dichloropropane	ND	ug/l	3.5					
Dibromochloromethane	ND	ug/l	1.0					
1,1,2-Trichloroethane	ND	ug/l	1.5					
2-Chloroethylvinyl ether	ND	ug/l	10.					
Tetrachloroethene	ND	ug/l	1.5					
Chlorobenzene	ND	ug/l	3.5					
Trichlorofluoromethane	ND	ug/l	5.0					
1,2-Dichloroethane	ND	ug/l	1.5					
1,1,1-Trichloroethane	ND	ug/l	2.0					
Bromodichloromethane	ND	ug/l	1.0					
trans-1,3-Dichloropropene	ND	ug/l	1.5					
cis-1,3-Dichloropropene	ND	ug/l	1.5					
Bromoform	ND	ug/l	1.0					
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0					
Benzene	ND	ug/l	1.0					
Toluene	ND	ug/l	1.0					
Ethylbenzene	ND	ug/l	1.0					
Chloromethane	ND	ug/l	10.					
Bromomethane	ND	ug/l	5.0					
Vinyl chloride	ND	ug/l	2.0					
Chloroethane	ND	ug/l	2.0					
1,1-Dichloroethene	ND	ug/l	1.0					
trans-1,2-Dichloroethene	ND	ug/l	1.5					
cis-1,2-Dichloroethene	ND	ug/l	1.0					
Trichloroethene	ND	ug/l	1.0					
1,2-Dichlorobenzene	ND	ug/l	5.0					
1,3-Dichlorobenzene	ND	ug/l	5.0					
1,4-Dichlorobenzene	ND	ug/l	5.0					
p/m-Xylene	ND	ug/l	2.0					
o-xylene	ND	ug/l	1.0					
Xylene (Total)	ND	ug/l	2.0					
Styrene	ND	ug/l	1.0					

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0707483

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01 (WG282016-8)								
Volatile Organics by GC/MS 624 cont'd				5	624	0530	15:40	BT
Acetone	ND	ug/l	10.					
Carbon disulfide	ND	ug/l	5.0					
2-Butanone	ND	ug/l	10.					
Vinyl acetate	ND	ug/l	20.					
4-Methyl-2-pentanone	ND	ug/l	10.					
2-Hexanone	ND	ug/l	10.					
Acrolein	ND	ug/l	8.0					
Acrylonitrile	ND	ug/l	10.					
Methyl Acetate	ND	ug/l	20.					
Ethyl Acetate	ND	ug/l	20.					
Tetrahydrofuran	ND	ug/l	20.					
Acetonitrile	ND	ug/l	40.					
n-Hexane	ND	ug/l	20.					
Isopropyl Ether	ND	ug/l	20.					
Cyclohexane	ND	ug/l	20.					
Heptane	ND	ug/l	20.					
Butyl Acetate	ND	ug/l	20.					
Methyl tert butyl ether	ND	ug/l	20.					
Ethyl Ether	ND	ug/l	20.					
Dibromomethane	ND	ug/l	20.					
1,4-Dioxane	ND	ug/l	2000					
Tert-Butyl Alcohol	ND	ug/l	100					
Tertiary-Amyl Methyl Ether	ND	ug/l	20.					
Surrogate(s)	Recovery		QC Criteria					
Pentafluorobenzene	106	%	80-120					
Fluorobenzene	100	%	80-120					
4-Bromofluorobenzene	93.0	%	80-120					
Blank Analysis for sample(s) 01 (WG281629-1)								
SVOC's by GC/MS 8270				1	8270C	0525	10:30 0529 17:02	RL
Acenaphthene	ND	ug/l	5.0					
Benzidine	ND	ug/l	50.					
1,2,4-Trichlorobenzene	ND	ug/l	5.0					
Hexachlorobenzene	ND	ug/l	5.0					
Bis(2-chloroethyl)ether	ND	ug/l	5.0					
1-Chloronaphthalene	ND	ug/l	5.0					
2-Chloronaphthalene	ND	ug/l	6.0					
1,2-Dichlorobenzene	ND	ug/l	5.0					
1,3-Dichlorobenzene	ND	ug/l	5.0					
1,4-Dichlorobenzene	ND	ug/l	5.0					
3,3'-Dichlorobenzidine	ND	ug/l	50.					
2,4-Dinitrotoluene	ND	ug/l	6.0					
2,6-Dinitrotoluene	ND	ug/l	5.0					
Azobenzene	ND	ug/l	5.0					
Fluoranthene	ND	ug/l	5.0					

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0707483

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01 (WG281629-1)								
SVOC's by GC/MS 8270 cont'd				1	8270C	0525 10:30	0529 17:02	RL
4-Chlorophenyl phenyl ether	ND	ug/l	5.0					
4-Bromophenyl phenyl ether	ND	ug/l	5.0					
Bis(2-chloroisopropyl)ether	ND	ug/l	5.0					
Bis(2-chloroethoxy)methane	ND	ug/l	5.0					
Hexachlorobutadiene	ND	ug/l	10.					
Hexachlorocyclopentadiene	ND	ug/l	30.					
Hexachloroethane	ND	ug/l	5.0					
Isophorone	ND	ug/l	5.0					
Naphthalene	ND	ug/l	5.0					
Nitrobenzene	ND	ug/l	5.0					
NDPA/DPA	ND	ug/l	15.					
n-Nitrosodi-n-propylamine	ND	ug/l	5.0					
Bis(2-ethylhexyl)phthalate	ND	ug/l	5.0					
Butyl benzyl phthalate	ND	ug/l	5.0					
Di-n-butylphthalate	ND	ug/l	5.0					
Di-n-octylphthalate	ND	ug/l	5.0					
Diethyl phthalate	ND	ug/l	5.0					
Dimethyl phthalate	ND	ug/l	5.0					
Benzo(a)anthracene	ND	ug/l	5.0					
Benzo(a)pyrene	ND	ug/l	5.0					
Benzo(b)fluoranthene	ND	ug/l	5.0					
Benzo(k)fluoranthene	ND	ug/l	5.0					
Chrysene	ND	ug/l	5.0					
Acenaphthylene	ND	ug/l	5.0					
Anthracene	ND	ug/l	5.0					
Benzo(ghi)perylene	ND	ug/l	5.0					
Fluorene	ND	ug/l	5.0					
Phenanthrene	ND	ug/l	5.0					
Dibenzo(a,h)anthracene	ND	ug/l	5.0					
Indeno(1,2,3-cd)pyrene	ND	ug/l	7.0					
Pyrene	ND	ug/l	5.0					
Benzo(e)pyrene	ND	ug/l	5.0					
Biphenyl	ND	ug/l	5.0					
Perylene	ND	ug/l	5.0					
Aniline	ND	ug/l	20.					
4-Chloroaniline	ND	ug/l	5.0					
1-Methylnaphthalene	ND	ug/l	5.0					
2-Nitroaniline	ND	ug/l	5.0					
3-Nitroaniline	ND	ug/l	5.0					
4-Nitroaniline	ND	ug/l	7.0					
Dibenzofuran	ND	ug/l	5.0					
a,a-Dimethylphenethylamine	ND	ug/l	50.					
Hexachloropropene	ND	ug/l	10.					
Nitrosodi-n-butylamine	ND	ug/l	10.					
2-Methylnaphthalene	ND	ug/l	5.0					
1,2,4,5-Tetrachlorobenzene	ND	ug/l	20.					

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0707483

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01 (WG281629-1)								
SVOC's by GC/MS 8270 cont'd				1	8270C	0525 10:30	0529 17:02	RL
Pentachlorobenzene	ND	ug/l	20.					
a-Naphthylamine	ND	ug/l	25.					
b-Naphthylamine	ND	ug/l	20.					
Phenacetin	ND	ug/l	10.					
Dimethoate	ND	ug/l	20.					
4-Aminobiphenyl	ND	ug/l	10.					
Pentachloronitrobenzene	ND	ug/l	10.					
Isodrin	ND	ug/l	10.					
p-Dimethylaminoazobenzene	ND	ug/l	10.					
Chlorobenzilate	ND	ug/l	20.					
3-Methylcholanthrene	ND	ug/l	20.					
Ethyl Methanesulfonate	ND	ug/l	15.					
Acetophenone	ND	ug/l	20.					
Nitrosodipiperidine	ND	ug/l	20.					
7,12-Dimethylbenz(a)anthracene	ND	ug/l	20.					
n-Nitrosodimethylamine	ND	ug/l	50.					
2,4,6-Trichlorophenol	ND	ug/l	5.0					
p-Chloro-m-cresol	ND	ug/l	5.0					
2-Chlorophenol	ND	ug/l	6.0					
2,4-Dichlorophenol	ND	ug/l	10.					
2,4-Dimethylphenol	ND	ug/l	10.					
2-Nitrophenol	ND	ug/l	20.					
4-Nitrophenol	ND	ug/l	10.					
2,4-Dinitrophenol	ND	ug/l	30.					
4,6-Dinitro-o-cresol	ND	ug/l	20.					
Pentachlorophenol	ND	ug/l	10.					
Phenol	ND	ug/l	7.0					
2-Methylphenol	ND	ug/l	6.0					
3-Methylphenol/4-Methylphenol	ND	ug/l	6.0					
2,4,5-Trichlorophenol	ND	ug/l	5.0					
2,6-Dichlorophenol	ND	ug/l	10.					
Benzoic Acid	ND	ug/l	50.					
Benzyl Alcohol	ND	ug/l	10.					
Carbazole	ND	ug/l	5.0					
Pyridine	ND	ug/l	50.					
2-Picoline	ND	ug/l	20.					
Pronamide	ND	ug/l	20.					
Methyl methanesulfonate	ND	ug/l	20.					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	29.0	%	21-120					
Phenol-d6	24.0	%	10-120					
Nitrobenzene-d5	66.0	%	23-120					
2-Fluorobiphenyl	55.0	%	43-120					
2,4,6-Tribromophenol	60.0	%	10-120					
4-Terphenyl-d14	99.0	%	33-120					

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0707483

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01 (WG282121-1)								
PAH by GC/MS SIM 8270M				1	8270C-M	0525 10:30	0531 09:16	RL
Acenaphthene	ND	ug/l	0.20					
2-Chloronaphthalene	ND	ug/l	0.20					
Fluoranthene	ND	ug/l	0.20					
Hexachlorobutadiene	ND	ug/l	0.50					
Naphthalene	ND	ug/l	0.20					
Benzo(a)anthracene	ND	ug/l	0.20					
Benzo(a)pyrene	ND	ug/l	0.20					
Benzo(b)fluoranthene	ND	ug/l	0.20					
Benzo(k)fluoranthene	ND	ug/l	0.20					
Chrysene	ND	ug/l	0.20					
Acenaphthylene	ND	ug/l	0.20					
Anthracene	ND	ug/l	0.20					
Benzo(ghi)perylene	ND	ug/l	0.20					
Fluorene	ND	ug/l	0.20					
Phenanthrene	ND	ug/l	0.20					
Dibenzo(a,h)anthracene	ND	ug/l	0.20					
Indeno(1,2,3-cd)Pyrene	ND	ug/l	0.20					
Pyrene	ND	ug/l	0.20					
1-Methylnaphthalene	ND	ug/l	0.20					
2-Methylnaphthalene	ND	ug/l	0.20					
Pentachlorophenol	ND	ug/l	0.80					
Hexachlorobenzene	ND	ug/l	0.80					
Perylene	ND	ug/l	0.20					
Biphenyl	ND	ug/l	0.20					
2,6-Dimethylnaphthalene	ND	ug/l	0.20					
1-Methylphenanthrene	ND	ug/l	0.20					
Benzo(e)Pyrene	ND	ug/l	0.20					
Hexachloroethane	ND	ug/l	0.80					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	30.0	%	21-120					
Phenol-d6	25.0	%	10-120					
Nitrobenzene-d5	51.0	%	23-120					
2-Fluorobiphenyl	46.0	%	43-120					
2,4,6-Tribromophenol	54.0	%	10-120					
4-Terphenyl-d14	70.0	%	33-120					
Blank Analysis for sample(s) 01 (WG281569-1)								
Polychlorinated Biphenyls				5	608	0524 20:45	0529 09:23	SS
Aroclor 1016	ND	ug/l	0.250					
Aroclor 1221	ND	ug/l	0.250					
Aroclor 1232	ND	ug/l	0.250					
Aroclor 1242	ND	ug/l	0.250					
Aroclor 1248	ND	ug/l	0.250					
Aroclor 1254	ND	ug/l	0.250					
Aroclor 1260	ND	ug/l	0.250					

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0707483

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01 (WG281569-1)								
Polychlorinated Biphenyls cont'd				5	608	0524 20:45	0529 09:23	SS
Surrogate(s)	Recovery		QC Criteria					
2,4,5,6-Tetrachloro-m-xylene	61.0	%	30-150					
Decachlorobiphenyl	26.0	%	30-150					

REFERENCES

1. Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.

4. Methods for Chemical Analysis of Water and Wastes. EPA 600/4-79-020. Revised March 1983.

5. Methods for the Organic Chemical Analysis of Municipal and Industrial Wastewater. Appendix A, Part 136, 40 CFR (Code of Federal Regulations).

14. Methods for the Determination of Organic Compounds in Finished Drinking Water and Raw Source Water. EPA/600/4-88/039, Revised July 1991.

19. Inductively Coupled Plasma Atomic Emission Spectrometric Method for Trace Element Analysis of Water and Wastes. Appendix C, Part 136, 40 CFR (Code of Federal Regulations). July 1, 1999 edition.

30. Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

74. Method 1664,Revision A: N-Hexane Extractable Material (HEM; Oil & Grease) and Silica Gel Treated N-Hexane Extractable Material (SGT-HEM; Non-polar Material) by Extraction and Gravimetry, EPA-821-R-98-002, February 1999.

ALPHA ANALYTICAL LABORATORIES
ADDENDUM I

REFERENCES

GLOSSARY OF TERMS AND SYMBOLS

REF	Reference number in which test method may be found.
METHOD	Method number by which analysis was performed.
ID	Initials of the analyst.
ND	Not detected in comparison to the reported detection limit.
NI	Not Ignitable.
ug/cart	Micrograms per Cartridge.

LIMITATION OF LIABILITIES

Alpha Analytical, Inc. performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical, Inc., shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical, Inc. be held liable for any incidental consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical, Inc.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding times and splitting of samples in the field.

CHAIN OF CUSTODY

PAGE 1 OF 1

ALPHA ANALYTICAL LABS
WESTBORO, MA
TEL: 508-898-9220
FAX: 508-898-9193
RAYNHAM, MA
TEL: 508-822-9300
FAX: 508-822-3288

Date Rec'd in Lab: 5/23

ALPHA Job #: L0707483

Client Information

Client: Gannett Fleming
Address: 202 Wall St.
Princeton, NJ 08540
Phone: 413-530-6682
Fax: N/A
Email: gdalton@gfnet.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Chicopee
Project Location: Chicopee, MA
Project #:
Project Manager: Guy Dalton
ALPHA Quote #:

Turn-Around Time

☐ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: 5/31 Time:

Report Information - Data Deliverables

☐ FAX ☐ EMAIL
☐ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program | Criteria

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTOCOLS

☒ Yes ☐ No Are MCP Analytical Methods Required?
☐ Yes ☐ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

NPDES Analysis

ALPHA Lab ID (lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TPH-1664	PCB	SVOC-8270	Total Phenol	TSS	Total Hex Cr, TRC	Total Metals	TCN	624	ESB/BCP-504	Sample Specific Comments
07483-01	Storm Drain Sample (68')	5/23/07	1300	H_2O	MGW	X	X	X	X	X	X	X	X	X	X	NPDES Analysis

SAMPLE HANDLING
Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

TOTAL # BOTTLES

Container Type	G	G	G	G	P	P	P	P	G	G
Preservative	B	H	A	D	A	A	C	E	H	H

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT (MA MCP) or CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
Matt Ewell	5/23/07 1534	Robert Welch	5/23/07 1530
	5/23/07 20:2	Paolo Jaul	5/23 20:3

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms. See reverse side.

FORM NO: 01-01 (rev. 10-OCT-05)

8. Signature Requirements: The Notice of Intent must be signed by the operator in accordance with the signatory requirements of 40 CFR Section 122.22, including the following certification:

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 I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Facility/Site Name: Former Uniroyal Complex - Chicopee Industrial Park

Operator signature: 

Title: Supervisor

Date: 06/04/07