UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 1
5 Post Office Square, Suite 100
BOSTON, MA 02109-3912

CERTIFIED MAIL RETURN RECEIPT REQUESTED

OCT 12 2011

John Hale, Site Supervisor
Francis Harvey & Sons, Inc.
141 Dewey Street
Worcester, MA 01610

Re: Authorization to discharge under the Remediation General Permit (RGP) – NHG910000. Burgess BioPower site located at One Community Street, Berlin, New Hampshire 03570, Coos County, Authorization # NHG910057

Dear Mr. Hale:

Based on the review of a Notice of Intent (NOI) submitted on behalf of Berlin Station LLC, by the firm ESS Group, Inc., for the site referenced above, the U.S. Environmental Protection Agency (EPA) hereby authorizes you, as the named Operator, to discharge in accordance with the provisions of the RGP at that site. Your authorization number is listed above.

The checklist enclosed with this RGP authorization indicates the pollutants which you are required to monitor. Also indicated on the checklist are the effluent limits, test methods and minimum levels (MLs) for each pollutant. Please note that the checklist does not represent the complete requirements of the RGP. Operators must comply with all of the applicable requirements of this permit, including influent and effluent monitoring, narrative water quality standards, record keeping, and reporting requirements, found in Parts I and II, and Appendices I – VIII of the RGP. See EPA's website for the complete RGP and other information at: http://www.epa.gov/region1/npdes/mass.html#dgp.

Please note the enclosed checklist includes parameters which you have marked "Believed Present". The checklist also includes other parameters for which your laboratory reports indicated there was insufficient sensitivity to detect these parameters at the minimum levels established in Appendix VI of the RGP.

In addition, EPA is requiring monitoring only for methylnaphthalene in view its historic presence and monitoring and effluent limits for total metals cadmium, total hexavalent chromium, total mercury, total selenium, and total silver, in view of these metals for which the "dissolved" rather than "total" values were reported. You may request a deletion of these and any other compounds not present in the influent during the first six months to a year of continuously monitoring these compounds by filing a Notice of Change (NOC) request. Please see the Notice of Change (NOC) information under Appendix V on the RGP website.

Also, please note that the metals included on the checklist are dilution dependent pollutants and subject to limitations based on selected dilution ranges and technology-based ceiling limitations.

For each parameter the dilution factor 21,798 for this site is within the "Ceiling Value" range established in the RGP. (See the RGP Appendix IV for New Hampshire facilities). Therefore, the limits for antimony of 141 ug/L, arsenic of 540ug/L, cadmium of 260ug/L, trivalent chromium of 1,710ug/L, hexavalent chromium of 1,710ug/L, copper of 2,070ug/L, lead of 430ug/L, mercury of 2.3ug/L, nickel of 2,380ug/L, selenium of 408ug/L, silver of 240ug/L, zinc of 1,480ug/L, and iron of 5,000ug/L, are required to achieve permit compliance at your site.

In addition please note that this authorization is subject to a recertification if the operations at the site result in a discharge lasting longer than six months. A recertification can be submitted to EPA within six (6) to twelve (12) months of operations in accordance with the 2010 RGP requirements. You may do this via an email or throughout the regular mail to the contact person indicated below.

Finally, please note the list of pollutants attached to this authorization is subject to a recertification if the operations at the site result in a discharge lasting longer than six months. Recertification's can be submitted to EPA within six (6) to twelve (12) months of operations in accordance with the 2010 RGP regulations.

This general permit and authorization to discharge will expire on September 9, 2015. You have reported that the site termination may end December 31, 2012. If for any reason the discharge terminates at certain point in the future you are required to submit a Notice of Termination (NOT) to the attention of the contact person indicated below within 30 days of project completion.

Thank you in advance for your cooperation in this matter. Please contact Victor Alvarez at 617-918-1572 or Alvarez.Victor@epa.gov, if you have any questions.

Sincerely,

David M. Webster, Chief
Industrial Permits Branch

Enclosure

cc: Jeffrey Andrews, NHDES
Patrick MacQueen, City Manager, City of Berlin
Robert Desrosiers, Berlin Station, LLC
Jason Wiggin, ESS Group

2010 Remediation General Permit
Summary of Monitoring Parameters[1]

NPDES Authorization Number:	**NHG910057 - New**
Date Authorization Issued:	October, 2011
Facility/Site Name:	Burgess BioPower
Facility/Site Address:	One Community St. Berlin, NH 03570, Coos County
Legal Name of operator:	Francis Harvey & Sons, Inc.
Operator contact name, title, and Address:	John Hale, Site Supervisor 141 Dewey Street, Worcester, MA 01610, Worcester County Email: jhle@fhsgc.com
Estimated Date of Completion:	December 31, 2013
Category and Sub-Category:	Category III. Contaminated Construction Dewatering. Subcategory B. Known Contaminated Sites
Receiving Water:	Androscogginn River

Monitoring & Limits are applicable if checked. All samples are to be collected as grab samples

	Parameter	**Effluent Limit/Method#/ML** (All Effluent Limits are shown as Daily Maximum Limit, unless denoted by a **, in that case it will be a Monthly Average Limit); Minimum Levels =ML
√	1. Total Suspended Solids (TSS)	30 milligrams/liter (mg/l) **, 50 mg/l for hydrostatic testing **, Me#60.2/5mL
	2. Total Residual Chlorine (TRC) [1]	Freshwater = 11 ug/l ** Saltwater = 7.5 ug/l **/ Me#330.5/ML 20ug/L
	3. Total Petroleum Hydrocarbons (TPH)	5.0 mg/l/ Me# 1664A/5.0mg/LmL
	4. Cyanide (CN) [2, 3]	Freshwater = 5.2 ug/l ** Saltwater = 1.0 ug/l **/ Me#335.4/ML 5ug/L
	5. Benzene (B)	5ug/L /50.0 ug/l for hydrostatic testing only/ Me#8260C/ML 2 ug/L
	6. Toluene (T)	(limited as ug/L total BTEX)/ Me#8260C/ ML 2ug/L
	7. Ethylbenzene (E)	(limited as ug/L total BTEX))/ Me#8260C/ ML 2ug/L
√	8. (m,p,o) Xylenes (X)	(limited as ug/L total BTEX))/ Me#8260C/ ML 2ug/L
	9. Total Benzene, Toluene, Ethyl Benzene, and Xylenes (BTEX) [4]	100 ug/l)/ Me#8260C/ ML 2ug/L

	Parameter	Effluent Limit/Method#/ML (All Effluent Limits are shown as Daily Maximum Limit, unless denoted by a **, in that case it will be a Monthly Average Limit); Minimum Levels =ML
	10. Ethylene Dibromide (EDB) (1,2-Dibromoethane)	0.05 ug/l/ Me#8260C/ ML 10ug/L
√	11. Methyl-tert-Butyl Ether (MtBE)	70.0 ug/l /Me#8260C/ ML 10ug/L
√	12.tert-Butyl Alcohol (TBA) (TertiaryButanol)	Monitor Only (ug/L)/ Me#8260C/ ML 10ug/L
	13. tert-Amyl Methyl Ether (TAME)	Monitor Only (ug/L) /Me#8260C/ ML 10ug/L
	14. Naphthalene [5]	20 ug/l /Me#8260C/ML 2ug/L
	15. Carbon Tetrachloride	4.4 ug/l /Me#8260C/ML 5ug/L
	16. 1,2 Dichlorobenzene (o-DCB)	600 ug/l /Me#8260C/ML 5ug/L
	17. 1,3 Dichlorobenzene (m-DCB)	320 ug/l /Me#8260C/ML 5ug/L
	18. 1,4 Dichlorobenzene (p-DCB)	5.0 ug/l /Me#8260C/ML 5ug/L
	18a. Total dichlorobenzene	763 ug/l - NH only /Me#8260C/ ML5ug/L
	19. 1,1 Dichloroethane (DCA)	70 ug/l /Me#8260C/ML 5ug/L
	20. 1,2 Dichloroethane (DCA)	5.0 ug/l /Me#8260C/ML 5ug/L
	21. 1,1 Dichloroethene (DCE)	3.2 ug/l/Me#8260C/ML 5ug/L
	22. cis-1,2 Dichloroethene (DCE)	70 ug/l /Me#8260C/ML 5ug/L
	23. Methylene Chloride	4.6 ug/l/Me#8260C/ML 5ug/L
√	24. Tetrachloroethene (PCE)	5.0 ug/l /Me#8260C/ML 5ug/L
	25. 1,1,1 Trichloro-ethane (TCA)	200 ug/l/Me#8260C/ML 5ug/L
	26. 1,1,2 Trichloro-ethane (TCA)	5.0 ug/l /Me#8260C/ML 5ug/L
	27. Trichloroethene (TCE)	5.0 ug/l /Me#8260C/ML 5ug/L
	28. Vinyl Chloride (Chloroethene)	2.0 ug/l /Me#8260C/ML 5ug/L
√	29. Acetone	Monitor Only (ug/L) /Me#8260C/ML 50ug/L
	30. 1,4 Dioxane	Monitor Only /Me#1624C/ML 50ug/L
	31. Total Phenols	300 ug/l Me#420.1&420.2/ML 2ug/L/ Me# 420.4 /ML 50ug/L
	32. Pentachlorophenol (PCP)	1.0 ug/l /Me#8270D/ML 5ug/L, Me#604 &625/ML 10ug/L
	33. Total Phthalates (Phthalate esters) [6]	3.0 ug/L ** /Me#8270D/ML 5ug/L, Me#606/ML 10ug/L & Me#625/ML 5ug/L
	34. Bis (2-Ethylhexyl) Phthalate [Di-(ethylhexyl) Phthalate]	6.0 ug/l /Me#8270D/ML5ug/L,Me#606/ML 10ug/L& Me#625/ML 5ug/L
	35. Total Group I Polycyclic Aromatic Hydrocarbons (PAH)	10.0 ug/l
	a. Benzo(a) Anthracene [7]	0.0038 ug/l /Me#8270D/ ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML 5ug/L
	b. Benzo(a) Pyrene [7]	0.0038 ug/l /Me#8270D/ ML 5ug/L, Me#610/ML 5ug/L&

	Parameter	Effluent Limit/Method#/ML (All Effluent Limits are shown as Daily Maximum Limit, unless denoted by a **, in that case it will be a Monthly Average Limit); Minimum Levels =ML
		Me#625/ML 5ug/L
	c. Benzo(b)Fluoranthene [7]	0.0038 ug/l /Me#8270D/ ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML 5ug/L
	d. Benzo(k)Fluoranthene [7]	0.0038 ug/l /Me#8270D/ ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML 5ug/L
	e. Chrysene [7]	0.0038 ug/l /Me#8270D/ ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML 5ug/L
	f. Dibenzo(a,h)anthracene [7]	0.0038 ug/l /Me#8270D/ ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML 5ug/L
	g. Indeno(1,2,3-cd) Pyrene [7]	0.0038 ug/l /Me#8270D/ ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML 5ug/L
	36. Total Group II Polycyclic Aromatic Hydrocarbons (PAH)	100 ug/l
	h. Acenaphthene	5ug/L/Me#8270D/ML 5ug/L/Me#610/ML 5ug/L & Me#625/ML 5ug/L & Me#610 (HPLC)/ ML 2ug/L
	i. Acenaphthylene	5ug/L/Me#8270D/ML 5ug/L,Me#610/ML 5ug/L & Me#625/ML 5ug/L
	j. Anthracene	X/Me#8270D/ML5ug/L,Me#610/ML 5ug/L & Me#625/ML 5ug/L
	k. Benzo(ghi) Perylene	X/Me#8270D/ML5ug/L,Me#610/ML 5ug/L & Me#625/ML 5ug/L
	l. Fluoranthene	X/Me#8270D/ML5ug/L,Me#610/ML 5ug/L & Me#625/ML 5ug/L
	m. Fluorene	X/Me#8270D/ML5ug/L,Me#610/ML 5ug/L & Me#625/ML 5ug/L
	n. Naphthalene [5]	20 ug/l / Me#8270D/ ML 5ug/L, Me#610/ML5ug/L & Me#625/ML 5ug/L
	o. Phenanthrene	X/Me#8270D/ML5ug/L,Me#610/ML 5ug/L & Me#625/ML 5ug/L
	p. Pyrene	X/Me#8270D/ML5ug/L,Me#610/ML 5ug/L & Me#625/ML 5ug/L
	37. Total Polychlorinated Biphenyls (PCBs) [8, 9]	0.000064 ug/L /Me# 608/ ML 0.5ug/L
√	38. Chloride	Monitor only/Me# 300.0/ML 0.1ug/L

	Metal parameter	ML= Minimun Levels		Total Recoverable Metal Limit @ H [10] = 25 mg/l CaCO3 for Discharges in New Hampshire (ug/l) [11]	
				Freshwater	
√	39. Antimony			141/ML 10	
√	40. Arsenic **			540/ML 20	
√	41. Cadmium **			260/ML 10	
√	42. Chromium III (trivalent) **			1,710/ML 15	
√	43. Chromium VI (hexavalent) **			1,710/ML 10	
√	44. Copper **			2,070/ML 15	
√	45. Lead **			430/ML 20	
√	46. Mercury **			2.3/ML 0.2	
√	47. Nickel **			2,380/ML 20	
√	48. Selenium **			408/ML 20	
√	49. Silver			240/ML 10	
√	50. Zinc **			1,480/ML 15	
√	51. Iron			5,000/ML 20	

	Other Parameters	Limit
√	52. Instantaneous Flow	Site specific in CFS
√	53. Total Flow	Site specific in CFS
	54. pH Range for Class A & Class B Waters in MA	6.5-8.3; 1/Month/Grab[13]
	55. pH Range for Class SA & Class SB Waters in MA	6.5-8.3; 1/Month/Grab[13]
√	56. pH Range for Class B Waters in NH	6.5-8; 1/Month/Grab[13]
	57. Daily maximum temperature - Warm water fisheries	83°F; 1/Month/Grab[14]
	58. Daily maximum temperature - Cold water fisheries	68°F; 1/Month/Grab[14]
	59. Maximum Change in Temperature in MA - Any Class A water body	1.5°F; 1/Month/Grab[14]
	60. Maximum Change in Temperature in MA - Any Class B water body- Warm Water	5°F; 1/Month/Grab[14]
	61. Maximum Change in Temperature in MA – Any Class B water body - Cold water and Lakes/Ponds	3°F; 1/Month/Grab[14]
	62. Maximum Change in Temperature in MA – Any Class SA water body - Coastal	1.5°F; 1/Month/Grab[14]
	63. Maximum Change in Temperature in MA – Any Class SB water body - July to September	1.5°F; 1/Month/Grab[14]
	64. Maximum Change in Temperature in MA – Any Class SB water body - October to June	4°F; 1/Month/Grab[14]
√	65. Methylnaphthale	Monitoring Only

Footnotes:

[1] Although the maximum values for TRC are 11ug/l and 7.5 ug/l for freshwater, and saltwater respectively, the compliance limits are equal to the minimum level (ML) of the test method used as listed in Appendix VI (i.e., Method 330.5, 20 ug/l).
[2] Limits for cyanide are based on EPA's water quality criteria expressed as micrograms per liter. There is currently no EPA approved test method for free cyanide. Therefore, total cyanide must be reported.
[3] Although the maximum values for cyanide are 5.2 ug/l and 1.0 ug/l for freshwater and saltwater, respectively, the compliance limits are equal to the minimum level (ML) of the Method 335.4 as listed in Appendix VI (i.e., 10 ug/l).
[4] BTEX = sum of Benzene, Toluene, Ethylbenzene, and total Xylenes.
[5] Naphthalene can be reported as both a purgeable (VOC) and extractable (SVOC) organic compound. If both VOC and SVOC are analyzed, the highest value must be used unless the QC criteria for one of the analyses is not met. In such cases, the value from the analysis meeting the QC criteria must be used.
[6] The sum of individual phthalate compounds(not including the #34, Bis (2-Ethylhexyl) Phthalate . The compliance limits are equal to the minimum level (ML) of the test method used as listed in Appendix VI.
Total values calculated for reporting on NOIs and discharge monitoring reports shall be calculated by adding the measured concentration of each constituent. If the measurement of a constituent is less than the ML, the permittee shall use a value of zero for that constituent. For each test, the permittee shall also attach the raw data for each constituent to the discharge monitoring report, including the minimum level and minimum detection level for the analysis.
[7] Although the maximum value for the individual PAH compounds is 0.0038 ug/l, the compliance limits are equal to the minimum level (ML) of the test method used as listed in Appendix VI.
[8] In the November 2002 WQC, EPA has revised the definition of Total PCBs for aquatic life as total PCBs is the sum of all homologue, all isomer, all congener, or all "Oroclor analyses."Total values calculated for reporting on NOIs and discharge monitoring reports shall be calculated by adding the measured concentration of each constituent. If the measure of a constituent is less than the ML, the permittee shall use a value of zero for that constituent. For each test, the permittee shall also attach the raw data for each constituent to the discharge monitoring report, including the minimum level and minimum detection level for the analysis.
[9]Although the maximum value for total PCBs is 0.000064 ug/l, the compliance limit is equal to the minimum level (ML) of the test method used as listed in Appendix VI (i.e., 0.5 ug/l for Method 608 or 0.00005 ug/l when Method 1668a is approved).
[10] Hardness. Cadmium, Chromium III, Copper, Lead, Nickel, Silver, and Zinc are Hardness Dependent.
[11] For a Dilution Factor (DF) from 1 to 5, metals limits are calculated using DF times the base limit for the metal. See Appendix IV. For example, iron limits are calculated using DF x 1,000ug/L (the iron base limit). Therefore DF is 1.5, the iron limit will be 1,500 ug/L; DF 2, then iron limit =1,000 x 2 =2,000 ug/L., etc. not to exceed the DF=5.
[12] Minimum Level (ML) is the lowest level at which the analytical system gives a recognizable signal and acceptable calibration point for the analyte. The ML represents the lowest concentration at which an analyte can be measured with a known level of confidence. The ML is calculated by multiplying the laboratory-determined method detection limit by 3.18 (see 40 CFR Part 136, Appendix B).

[13] pH sampling for compliance with permit limits may be performed using field methods as provided for in EPA test Method 150.1.

[14] Temperature sampling per Method 170.1

October 3, 2011 *Electronic submission via NPDES.Generalpermits@epa.gov*

United States Environmental Protection Agency
5 Post Office Square, Suite 100
Boston, Massachusetts 02109-3912
Attn: Remediation General Permit NOI Processing

Re: Notice of Intent for Remediation General Permit
Burgess BioPower
One Community Street, Berlin, New Hampshire
ESS Project Number B408-000.03

To Whom It May Concern:

At the request of Berlin Station, LLC, ESS Group, Inc. (ESS) is submitting the attached Remediation General Permit (RGP) – Notice of Intent (NOI) for the above-referenced location, referred to as the Site. The RGP-NOI form is included as Attachment A. The Site is a former pulp mill property that will be redeveloped as a biomass energy facility. Temporary construction dewatering will be required to facilitate the construction of footings and foundations for new structures to be placed on the Site. Based on monitoring well gauging at the site, the depth to groundwater is approximately 5 feet below ground surface. The depth of excavations will range from approximately 2 feet to 20 feet below ground surface. During subsurface investigations, groundwater was not encountered in all areas where excavation will occur. The location of the Site and discharge receiving water (Androscoggin River) are depicted on Figure 1.

Contaminant Information

On August 18, 2011, a groundwater sample was obtained from on-site monitoring well PC-37(OW) that was installed within the proposed excavation area. Based on the analytical data, chloride, antimony, arsenic, chromium, copper, iron, lead, nickel, zinc, total suspended solids (TSS), 1-methylnaphthalene, acetone, xylenes, and tetrachloroethylene (PCE) were detected. Concentrations of arsenic, copper, iron, lead, nickel, zinc, and TSS exceeded the applicable Effluent Limitations published in Appendix III of the RGP under the National Pollutant Discharge Elimination System for Discharges in New Hampshire. The laboratory analytical report supporting this submittal is included in Attachment B. Table 1 presents a summary of the analytical data.

Dilution Factor for Metals

A dilution factor (DF) was calculated for the detected levels of metals greater than applicable effluent limits. The DF is applicable to arsenic, copper, iron, lead, nickel, and zinc. The DF was calculated

using the following equation[1]: DF = [(Qd + Qs)/Qd] x 0.9; where Qd is the maximum discharge flow rate, estimated to be 25 gallons per min (GPM) or approximately 0.0557 cubic feet per second (cfs); Qs is the minimum receiving water flow rate for 7 consecutive days with a recurrence interval of 10 years (7Q10), determined to be 1,349 cfs[2]; and 0.9 as the allowance factor for reserving 10% of the assets in the receiving stream[3]. Using these values, the DF is equal to 21,798. Referring to the corresponding dilution range column in Appendix IV of the RGP (i.e., >100), none of the metals in the influent have the potential to exceed the corresponding effluent limits in Appendix IV.

Groundwater Treatment System

When construction dewatering is required, groundwater will be pumped from the excavation into a weir-style fractionation tank for settlement and equalization, then pumped through bag filters, followed by treatment via two approximately 1,000-pound liquid phase carbon units. A schematic drawing is included in Attachment C. The treated effluent will be discharged to a catch basin along Community Street, which discharges to the Androscoggin River. The average discharge rate of treated groundwater is anticipated to be approximately 10 gallons per minute.

Endangered Species Act (ESA) Review

The Site meets ESA eligibility Criterion D from Appendix VII of the RGP. Consultation with the U.S. Fish and Wildlife Service (US FWS) was completed as part of the New Hampshire Site Evaluation Committee, Application for Certificate of Site and Facility process. Information on federally-listed or candidate endangered and threatened species or habitats within or adjacent to the Site was requested. The US FWS response indicated that based on available information, no federally-listed or proposed, threatened or endangered species or critical habitat under their jurisdiction are known to occur in the Project area and preparation of a Biological Assessment or further consultation with US FWS is not required. A copy of the letter from US FWS is presented in Attachment D.

National Historic Preservation Act (NHPA) Review

The discharge meets criterion 2) under Section II.C. of Appendix VII of the RGP. The New Hampshire Division of Historical Resources (DHR) reviewed the project, including proposed construction activities, under Section 106 of the NHPA. The DHR concluded that a finding of *No Adverse Effect* is appropriate for the Site and no mitigation measures are required. Refer to Attachment E for a letter from NH DHR, which documents this finding.

[1] As set forth in RGP, Appendix V, Section I.A.3., Step 2.

[2] Based on NHDES recently re-estimated local 7Q10 for the Androscoggin River from Berlin to Gorham using the 1963 to 2006 post log drive period of record at the USGS gage in Gorham.

[3] Per Chapter ENV-Wq 1700, Surface Water Quality Regulations

If you have any questions regarding this submittal, please contact Dammon Frecker at (603) 319-4400 or dfrecker@catecapital.com.

Sincerely,

BERLIN STATION, LLC

 (for)

Robert Desrosiers
Vice President

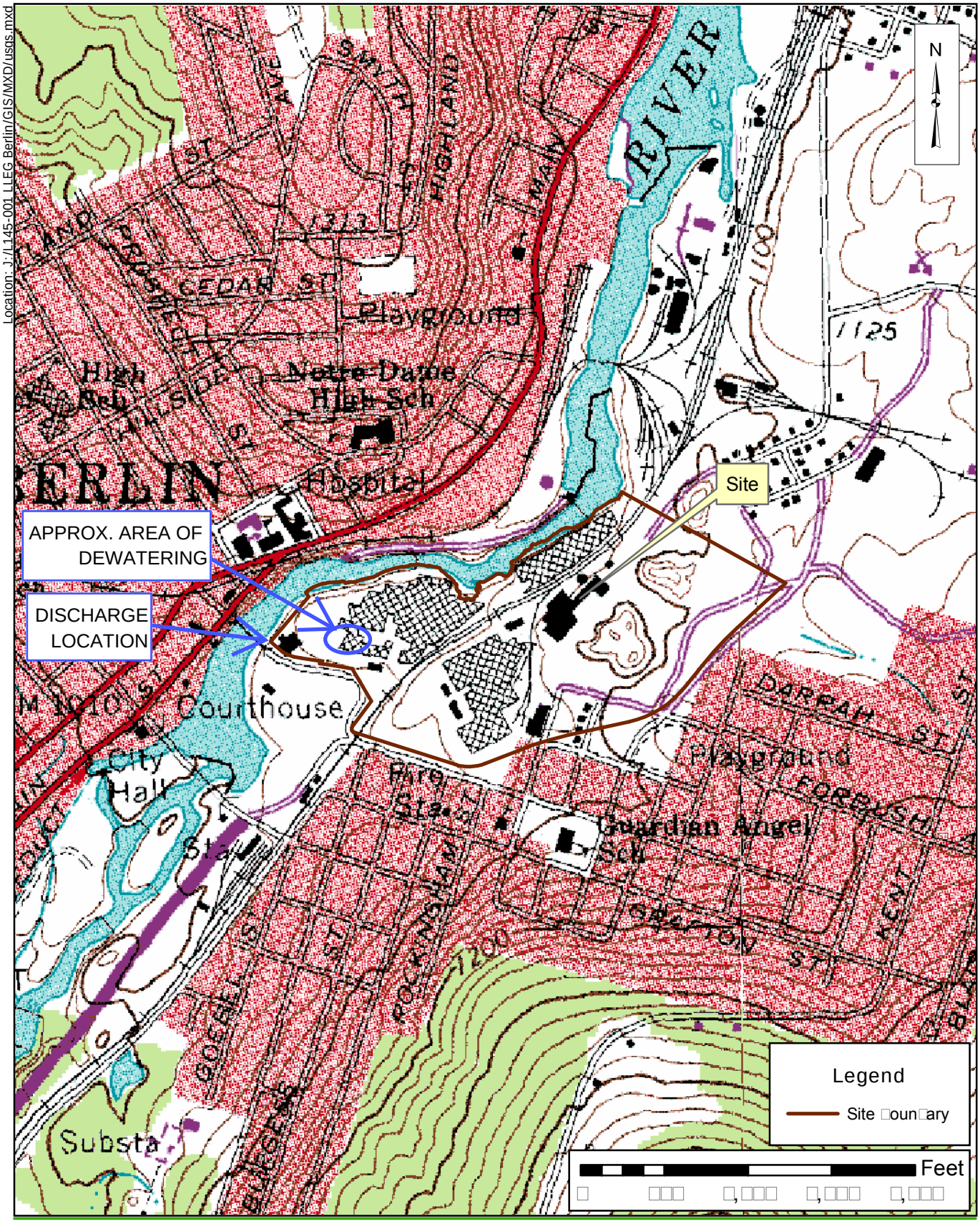
Attachments:
Figure 1 - Site Locus Map
Attachment A - NOI Form
Attachment B - Groundwater Analytical Report
Attachment C - Treatment System Flow Diagram
Attachment D - US FWS Correspondence
Attachment E - NH DHR Correspondence

CC:

New Hampshire Department of Environmental Services
Water Division
Wastewater Engineering Bureau
P.O. Box 95
Concord, New Hampshire 03302-0095

Patrick MacQueen, City Manager
City of Berlin
168 Main Street
Berlin, New Hampshire 03750

Fi□ure □ □Site □ocus □ap



ESS Group, Inc.
Engineers
Scientists
Consultants

BURGESS BIOPOWER
Berlin, New Hampshire

Scale: 1" = 800'

Source: 1) NHGRANIT, 1:24000 USGS

UGSS Locus Map - Site

Figure 1

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

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

a) Name of **facility/site**: Burgess BioPower		**Facility/site** mailing address:		
Location of **facility/site**: longitude: 44 deg 28 min 18.94 se latitude: 71 deg 10 min 31.13 se	Facility SIC code(s): 4931	Street: One Community Street		
b) Name of **facility/site owner:** Berlin Station, LLC		Town: Berlin		
Email address of facility/site owner: dfrecker@catecapital.com		State: New Hampshire	Zip: 03570	County: COOS
Telephone no. of facility/site **owner**: 603-319-4400				
Fax no. of facility/site **owner**: 603-584-1315		**Owner** is (check one): 1. Federal_□_ 2. State/Tribal_□_ 3. Private_☒_ 4. Other_□_ if so, describe:		
Address of **owner** (if different from site):				
Street: One Cate Street				
Town: Portsmouth	State: NH	Zip: 03801	County: Rockingham	
c) Legal name of **operator**:		**Operator** telephone no: □□□□□□□□□□		
Francis Harvey & Sons, Inc.		**Operator** fax no.: □□□□□□□□□□	**Operator** email: □hale□ □hs□c.co□	
Operator contact name and title: John Hale, Site Supervisor				
Address of **operator** (if different from owner):	Street: □□□ □e□ey Street			
Town: □ orcester	State: □ □	Zip: □□□□□	County: □ orcester □ounty, □S□	

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

e) Is site/facility subject to any State permitting, license, or other action which is causing the generation of discharge? Y☐ N☒
If Y, please list:
1. site identification # assigned by the state of NH or MA:
2. permit or license # assigned:
3. state agency contact information: name, location, and telephone number:

f) Is the site/facility covered by any other EPA permit, including:
1. Multi-Sector General Permit? Y☐ N☒,
if Y, number:
2. Final Dewatering General Permit? Y☐ N☒,
if Y, number:
3. EPA Construction General Permit? Y☒ N☐,
if Y, number: NHR100000
4. Individual NPDES permit? Y☐ N☒,
if Y, number:
5. any other water quality related individual or general permit? Y☐ N☒, if Y, number:

g) Is the site/facility located within or does it discharge to an Area of Critical Environmental Concern (ACEC)? Y☐ N☒

h) Based on the facility/site information and any historical sampling data, identify the sub-category into which the potential discharge falls.

Activity Category	**Activity Sub-Category**
I - Petroleum Related Site Remediation	A. Gasoline Only Sites ☐ B. Fuel Oils and Other Oil Sites (including Residential Non-Business Remediation Discharges) ☐ C. Petroleum Sites with Additional Contamination ☐
II - Non Petroleum Site Remediation	A. Volatile Organic Compound (VOC) Only Sites ☐ B. VOC Sites with Additional Contamination ☐ C. Primarily Heavy Metal Sites ☐
III - Contaminated Construction Dewatering	A. General Urban Fill Sites ☐ B. Known Contaminated Sites ☒

IV - Miscellaneous Related Discharges	A. Aquifer Pump Testing to Evaluate Formerly Contaminated Sites ☐ B. Well Development/Rehabilitation at Contaminated/Formerly Contaminated Sites ☐ C. Hydrostatic Testing of Pipelines and Tanks ☐ D. Long-Term Remediation of Contaminated Sumps and Dikes ☐ E. Short-term Contaminated Dredging Drain Back Waters (if not covered by 401/404 permit) ☐

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

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

Dewatering of excavations for construction of new footings and foundations

b) Provide the following information about each discharge:

1) Number of discharge points: one

2) What is the **maximum** and **average flow rate** of discharge (in cubic feet per second, ft^3/s)?
Max. flow: 0.0557 cfs Is maximum flow a **design value**? Y ☐ N ☒
Average flow (include units) 0.0223 cfs Is average flow a design value or estimate? estimate

3) Latitude and longitude of each discharge within 100 feet:
pt.1: lat. 44 deg 28 min 17.4 se long. 71 deg 10 min 36.6 se pt.2: lat. _____ long. _____;
pt.3: lat. _____ long. _____ pt.4: lat. _____ long. _____;
pt.5: lat. _____ long. _____ pt.6: lat. _____ long. _____;
pt.7: lat. _____ long. _____ pt.8: lat. _____ long. _____; etc.

4) If hydrostatic testing, total volume of the discharge (gals): not applicab

5) Is the discharge intermittent ☒ or seasonal ☐?
Is discharge ongoing? Y ☐ N ☒

c) Expected dates of discharge (mm/dd/yy): start Oct 12, 2011 end Dec 31, 2012

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). See attached figure: source is groundwater, treatment is sedimentation/filtration/GAC, discharge is storm drain to Androscoggin River

3. Contaminant information.

a) Based on the sub-category selected (see Appendix III), indicate whether each listed chemical is **believed present** or **believed absent** in the potential discharge. Attach additional sheets as needed.

Parameter *	CAS Number	Believed Absent	Believed Present	# of Samples	Sample Type (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)
1. Total Suspended Solids (TSS)		☐	☒	1	GRAB	2540D	5,000	50,000	6.82	50,000	2.73
2. Total Residual Chlorine (TRC)		☒	☐	1	GRAB	4500CL-D	20				
3. Total Petroleum Hydrocarbons (TPH)		☒	☐	1	GRAB	1644A	5,000				
4. Cyanide (CN)	57125	☒	☐	1	GRAB	4500CN-CE	5				
5. Benzene (B)	71432	☒	☐	1	GRAB	8260C	2				
6. Toluene (T)	108883	☒	☐	1	GRAB	8260C	2				
7. Ethylbenzene (E)	100414	☒	☐	1	GRAB	8260C	2				
8. (m,p,o) Xylenes (X)	108883; 106423; 95476; 1330207	☐	☒	1	GRAB	8260C	4	6.3	8.6E-4	6.3	3.44E-4
9. Total BTEX [2]	n/a	☒	☐	1	GRAB	8260C	2	6.3	8.6E-4	6.3	3.44E-4
10. Ethylene Dibromide (EDB) (1,2-Dibromoethane) [3]	106934	☒	☐	1	GRAB	504.1	0.1				
11. Methyl-tert-Butyl Ether (MtBE)	1634044	☒	☐	1	GRAB	8260C	10				
12. tert-Butyl Alcohol (TBA) (Tertiary-Butanol)	75650	☒	☐	1	GRAB	8260C	10				

***** Numbering system is provided to allow cross-referencing to Effluent Limits and Monitoring Requirements by Sub-Category included in Appendix III, as well as the Test Methods and Minimum Levels associated with each parameter provided in Appendix VI.

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

[3] EDB is a groundwater contaminant at fuel spill and pesticide application sites in New England.

Parameter *	CAS Number	Believed Absent	Believed Present	# of Samples	Sample Type (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)
13. tert-Amyl Methyl Ether (TAME)	9940508	☒	☐	1	GRAB	8260C	10				
14. Naphthalene	91203	☒	☐	1	GRAB	8270D	5				
15. Carbon Tetrachloride	56235	☒	☐	1	GRAB	8260C	5				
16. 1,2 Dichlorobenzene (o-DCB)	95501	☒	☐	1	GRAB	8260C	5				
17. 1,3 Dichlorobenzene (m-DCB)	541731	☒	☐	1	GRAB	8260C	5				
18. 1,4 Dichlorobenzene (p-DCB)	106467	☒	☐	1	GRAB	8260C	5				
18a. Total dichlorobenzene		☒	☐	1	GRAB	8260C	5				
19. 1,1 Dichloroethane (DCA)	75343	☒	☐	1	GRAB	8260C	5				
20. 1,2 Dichloroethane (DCA)	107062	☒	☐	1	GRAB	8260C	5				
21. 1,1 Dichloroethene (DCE)	75354	☒	☐	1	GRAB	8260C	5				
22. cis-1,2 Dichloroethene (DCE)	156592	☒	☐	1	GRAB	8260C	5				
23. Methylene Chloride	75092	☒	☐	1	GRAB	8260C	5				
24. Tetrachloroethene (PCE)	127184	☐	☒	1	GRAB	8260C	5	2	2.73E-4	2	1.09E-2
25. 1,1,1 Trichloro-ethane (TCA)	71556	☒	☐	1	GRAB	8260C	5				
26. 1,1,2 Trichloro-ethane (TCA)	79005	☒	☐	1	GRAB	8260C	5				
27. Trichloroethene (TCE)	79016	☒	☐	1	GRAB	8260C	5				

Parameter *	CAS Number	Believed Absent	Believed Present	# of Samples	Sample Type (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)
28. Vinyl Chloride (Chloroethene)	75014	☒	☐	1	GRAB	8260C	5				
29. Acetone	67641	☐	☒	1	GRAB	8260C	50	69	9.4E-3	69	3.8E-3
30. 1,4 Dioxane	123911	☒	☐	1	GRAB	8260C	5				
31. Total Phenols	108952	☒	☐	1	GRAB	420.1	5				
32. Pentachlorophenol (PCP)	87865	☒	☐	1	GRAB	8270D	5				
33. Total Phthalates (Phthalate esters) [4]		☒	☐	1	GRAB	8270D					
34. Bis (2-Ethylhexyl) Phthalate [Di-(ethylhexyl) Phthalate]	117817	☒	☐	1	GRAB	8270D	5				
35. Total Group I Polycyclic Aromatic Hydrocarbons (PAH)		☒	☐	1	GRAB	8270D					
a. Benzo(a) Anthracene	56553	☒	☐	1	GRAB	8270D	5				
b. Benzo(a) Pyrene	50328	☒	☐	1	GRAB	8270D	5				
c. Benzo(b)Fluoranthene	205992	☐	☐	1	GRAB	8270D	5				
d. Benzo(k)Fluoranthene	207089	☒	☐	1	GRAB	8270D	5				
e. Chrysene	21801	☒	☐	1	GRAB	8270D	5				
f. Dibenzo(a,h)anthracene	53703	☒	☐	1	GRAB	8270D	5				
g. Indeno(1,2,3-cd) Pyrene	193395	☒	☐	1	GRAB	8270D	5				
36. Total Group II Polycyclic Aromatic Hydrocarbons (PAH)		☒	☐	1	GRAB	8270D					

[4] The sum of individual phthalate compounds.

Parameter *	CAS Number	Believed Absent	Believed Present	# of Samples	Sample Type (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)
h. Acenaphthene	83329	☒	☐	1	GRAB	8270D	5				
i. Acenaphthylene	208968	☒	☐	1	GRAB	8270D	5				
j. Anthracene	120127	☒	☐	1	GRAB	8270D	5				
k. Benzo(ghi) Perylene	191242	☒	☐	1	GRAB	8270D	5				
l. Fluoranthene	206440	☒	☐	1	GRAB	8270D	5				
m. Fluorene	86737	☒	☐	1	GRAB	8270D	5				
n. Naphthalene	91203	☒	☐	1	GRAB	8270D	5				
o. Phenanthrene	85018	☒	☐	1	GRAB	8270D	5				
p. Pyrene	129000	☒	☐	1	GRAB	8270D	5				
37. Total Polychlorinated Biphenyls (PCBs)	85687; 84742; 117840; 84662; 131113; 117817.	☒	☐	1	GRAB	608	0.5				
38. Chloride	16887006	☐	☒	1	GRAB	300.0	100	46000	6.28	46000	2.51
39. Antimony	7440360	☐	☒	1	GRAB	6020	0.5	3.7	5.05E-4	3.7	2.02E-4
40. Arsenic	7440382	☐	☒	1	GRAB	6020	1.0	10.9	1.49E-3	10.9	5.95E-4
41. Cadmium	7440439	☒	☐	1	GRAB	6020	0.2				
42. Chromium III (trivalent)	16065831	☐	☒	1	GRAB	6020	1.0	14.6	2E-3	14.6	8E-4
43. Chromium VI (hexavalent)	18540299	☒	☐	1	GRAB	3500CR-D	1.0				
44. Copper	7440508	☐	☒	1	GRAB	6020	0.5	9.9	1.35E-3	9.9	5.4E-4
45. Lead	7439921	☐	☒	1	GRAB	6020	0.2	8.8	1.2E-3	8.8	4.8E-4
46. Mercury	7439976	☒	☐	1	GRAB	245.1	0.2				
47. Nickel	7440020	☐	☒	1	GRAB	6020	0.2	32.3	4.4E-3	32.3	1.8E-3
48. Selenium	7782492	☒	☐	1	GRAB	6020	2.0				
49. Silver	7440224	☒	☐	1	GRAB	6020	0.2				
50. Zinc	7440666	☐	☒	1	GRAB	6020	5	43.6	6E-3	43.6	2.4E-3
51. Iron	7439896	☐	☒	1	GRAB	200.7	50	1200	1.64E-1	1200	6.55E-2
Other (describe):		☐	☐	1	GRAB						

Parameter *	CAS Number	Believed Absent	Believed Present	# of Samples	Sample Type (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)
1-Methynapthalene	90-12-0	☐	☒	1	GRAB	8270D	5	0.23	3.14E-5	0.23	1.26E-5
		☐	☐								

b) For discharges where **metals** are believed present, please fill out the following (attach results of any calculations):

Step 1: Do any of the metals in the influent exceed the effluent limits in Appendix III (i.e., the limits set at zero dilution)? Y☒ N☐	If yes, which metals? Arsenic, Copper, Iron, Lead, Nickel, Zinc
Step 2: For any metals which 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? Metal: As, Cu, Fe, Pb, Ni, Zn DF: 21,798 Metal: DF: Metal: DF: Metal: DF: Etc.	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 Y, 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:

Groundwater will be pumped to a weir-style fractionation tank which will serve as a settling and equalization tank. Water will be pumped from the frac tank through two bag filters to remove remaining sediment and two granular activated carbon vessels to remove remaining VOC and SVOC. Influent, midfluent, and effluent sample ports will be provided, along with a totalizing flow meter. Following treatment, water will be discharged to a City of Berlin storm drain/catch basin and subsequently discharged to the Androscoggin River. See Figure 2 for a line flow diagram.

b) Identify each applicable treatment unit (check all that apply):	Frac. tank ☒	Air stripper ☐	Oil/water separator ☐	Equalization tanks ☐	Bag filter ☒	GAC filter ☒
	Chlorination ☐	De-chlorination ☐	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 10 gpm Maximum flow rate of treatment system 25 gpm
Design flow rate of treatment system 50 gpm

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

NONE

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

a) Identify the discharge pathway:	Direct to receiving water ☐	Within facility (sewer) ☐	Storm drain ☒	Wetlands ☐	Other (describe):

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

Treated groundwater will discharge to the City storm drain which discharges to the Androscoggin River.

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 CLASS B

e) Provide the reported or calculated seven day-ten year low flow (7Q10) of the receiving water 1,349 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? Y ☐ N ☒ If yes, for which pollutant(s)?

Is there a final TMDL? Y ☐ N ☒ If yes, for which pollutant(s)?

6. ESA and NHPA Eligibility.

Please provide the following information according to requirements of Permit Parts I.A.4 and I.A.5 Appendices II and VII.

a) Using the instructions in Appendix VII and information on Appendix II, under which criterion listed in Part I.C are you eligible for coverage under this general permit?

A ☐ B ☐ C ☐ D ☒ E ☐ F ☐

b) If you selected Criterion D or F, has consultation with the federal services been completed? Y ☒ N ☐ Underway ☐

c) If consultation with U.S. Fish and Wildlife Service and/or NOAA Fisheries Service was completed, was a written concurrence finding that the discharge is "not likely to adversely affect" listed species or critical habitat received? Y ☒ N ☐

d) Attach documentation of ESA eligibility as described in the NOI instructions and required by Appendix VII, Part I.C, Step 4.

e) Using the instructions in Appendix VII, under which criterion listed in Part II.C are you eligible for coverage under this general permit?

1 ☐ 2 ☒ 3 ☐

f) If Criterion 3 was selected, attach all written correspondence with the State or Tribal historic preservation officers, including any terms and conditions that outline measures the applicant must follow to mitigate or prevent adverse effects due to activities regulated by the RGP.

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.

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:	Burgess BioPower
Operator signature:	10-3-2011
Printed Name &Title:	John Hale, Site Superintendent JOHN HALE
Date:	September 30, 2011

TABLE 1
GROUNDWATER ANALYTICAL RESULTS
Burgess BioPower, Berlin, New Hampshire

SAMPLE LOCATION SAMPLING DATE LAB SAMPLE ID	Analytical Method	NPDES RGP Category III.B. Effluent Limits	Units	MW-37OW 8/18/2011 L1112747-25	
□nions □y Ion □hro□ato□raphy					
□hlori□e	□□□	□onitor □nly[B]	u□□	□□□□□	
□issolve□ □etals					
□nti□ony, □issolve□	□□□□	□.□	u□□	□.□	
□rsenic, □issolve□	□□□□	□□	u□□	□□.□	
□a□□iu□, □issolve□	□□□□	□.□	u□□	□.□	□
□hro□iu□, □issolve□	□□□□	□□.□	u□□	□□.□	
□opper, □issolve□	□□□□	□.□	u□□	□.□	
Iron, □issolve□	□□□.□	□□□□	u□□	□□□□	
□ea□, □issolve□	□□□□	□.□	u□□	□.□	
□ercury, □issolve□	□□□.□	□.□	u□□	□.□	□
□ic□el, □issolve□	□□□□	□□.□	u□□	□□.□	
Seleniu□, □issolve□	□□□□	□	u□□	□	□
Silver, □issolve□	□□□□	□.□	u□□	□.□	□
□inc, □issolve□	□□□□	□□	u□□	□□.□	
□eneral □he□istry					
□hlorine, □otal □esi□ual	□□□□□ □□□	□□	u□□	□□	□
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□henolics, □otal	□□□.□	□□□	u□□	□□□	□
Soli□s, □otal Suspen□e□	□□□□□	□□□□□	u□□	□□□□□	
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□,□□□i□ro□oethane	□□□.□	□.□□	u□□	□.□□	□
□olychlorinate□ □iphenyls □y □□					
□roclor □□□□	□□□	□.□[D]	u□□	□.□□	□
□roclor □□□□	□□□	□.□[D]	u□□	□.□□	□
□roclor □□□□	□□□	□.□[D]	u□□	□.□□	□
□roclor □□□□	□□□	□.□[D]	u□□	□.□□	□
□roclor □□□□	□□□	□.□[D]	u□□	□.□□	□
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Se□ivolatile □r□anics □y □□□□S					
□,□,□□□richloro□en□ene	□□□□□	□□	u□□	□	□
□,□□□ichloro□en□ene	□□□□□	□□	u□□	□	□
□,□□□ichloro□en□ene	□□□□□	□□	u□□	□	□
□,□□□ichloro□en□ene	□□□□□	□□	u□□	□	□
□,□,□□□richlorophenol	□□□□□	□□	u□□	□	□
□,□,□□□richlorophenol	□□□□□	□□	u□□	□	□
□,□□□ichlorophenol	□□□□□	□□	u□□	□	□
□,□□□i□ethylphenol	□□□□□	□□	u□□	□	□
□,□□□initrophenol	□□□□□	□□	u□□	□□	□

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TABLE 1
GROUNDWATER ANALYTICAL RESULTS
Burgess BioPower, Berlin, New Hampshire

SAMPLE LOCATION SAMPLING DATE LAB SAMPLE ID	Analytical Method	NPDES RGP Category III.B. Effluent Limits	Units	MW-37OW 8/18/2011 L1112747-25	
2,4-Dinitrotoluene	8270D	NE	ug/l	5	U
2,6-Dinitrotoluene	8270D	NE	ug/l	5	U
2-Chlorophenol	8270D	NE	ug/l	2	U
2-Methylphenol	8270D	NE	ug/l	5	U
2-Nitroaniline	8270D	NE	ug/l	5	U
2-Nitrophenol	8270D	NE	ug/l	10	U
3,3'-Dichlorobenzidine	8270D	NE	ug/l	5	U
3-Methylphenol/4-Methylphenol	8270D	NE	ug/l	5	U
3-Nitroaniline	8270D	NE	ug/l	5	U
4,6-Dinitro-o-cresol	8270D	NE	ug/l	10	U
4-Bromophenyl phenyl ether	8270D	NE	ug/l	2	U
4-Chloroaniline	8270D	NE	ug/l	5	U
4-Chlorophenyl phenyl ether	8270D	NE	ug/l	2	U
4-Nitroaniline	8270D	NE	ug/l	5	U
4-Nitrophenol	8270D	NE	ug/l	10	U
Aniline	8270D	NE	ug/l	2	U
Azobenzene	8270D	NE	ug/l	2	U
Benzidine	8270D	NE	ug/l	20	U
Benzoic Acid	8270D	NE	ug/l	50	U
Benzyl Alcohol	8270D	NE	ug/l	2	U
Bis(2-chloroethoxy)methane	8270D	NE	ug/l	5	U
Bis(2-chloroethyl)ether	8270D	NE	ug/l	2	U
Bis(2-chloroisopropyl)ether	8270D	NE	ug/l	2	U
Bis(2-Ethylhexyl)phthalate	8270D	6	ug/l	3	U
Butyl Benzyl phthalate	8270D	NE	ug/l	5	U
Carbazole	8270D	NE	ug/l	2	U
Di-n-Butylphthalate	8270D	NE	ug/l	5	U
Di-n-octylphthalate	8270D	NE	ug/l	5	U
Dibenzofuran	8270D	NE	ug/l	2	U
Diethyl phthalate	8270D	NE	ug/l	5	U
Dimethyl phthalate	8270D	NE	ug/l	5	U
Hexachlorocyclopentadiene	8270D	NE	ug/l	20	U
Isophorone	8270D	NE	ug/l	5	U
n-Nitrosodimethylamine	8270D	NE	ug/l	2	U
Nitrobenzene	8270D	NE	ug/l	2	U
NitrosoDiPhenylAmine(NDPA)/DPA	8270D	NE	ug/l	2	U
P-Chloro-M-Cresol	8270D	NE	ug/l	2	U
Phenol	8270D	NE	ug/l	5	U
Pyridine	8270D	NE	ug/l	5	U

TABLE 1
GROUNDWATER ANALYTICAL RESULTS
Burgess BioPower, Berlin, New Hampshire

SAMPLE LOCATION SAMPLING DATE LAB SAMPLE ID	Analytical Method	NPDES RGP Category III.B. Effluent Limits	Units	MW-37OW 8/18/2011 L1112747-25	
Se□ivolatile □r□anics □y □□□□ S□Sl□					
□□□ ethylnaphthalene	□□□□□	□□	u□□	□.□□	
□□□hloronaphthalene	□□□□□	□□	u□□	□.□	□
□□□ ethylnaphthalene	□□□□□	□□	u□□	□.□	□
□cenaphthene	□□□□□	□□□[C]	u□□	□.□	□
□cenaphthylene	□□□□□	□□□[C]	u□□	□.□	□
□nthracene	□□□□□	□□□[C]	u□□	□.□	□
□en□o□a□anthracene	□□□□□	□.□	u□□	□.□	□
□en□o□a□pyrene	□□□□□	□.□	u□□	□.□	□
□en□o□□□luoranthene	□□□□□	□.□	u□□	□.□	□
□en□o□□hi□perylene	□□□□□	□□□[C]	u□□	□.□	□
□en□o□□□luoranthene	□□□□□	□.□	u□□	□.□	□
□hrysene	□□□□□	□.□	u□□	□.□	□
□i□en□o□a,h□anthracene	□□□□□	□.□	u□□	□.□	□
Fluoranthene	□□□□□	□□□[C]	u□□	□.□	□
Fluorene	□□□□□	□□□[C]	u□□	□.□	□
He□achloro□en□ene	□□□□□	□□	u□□	□.□	□
He□achloro□uta□iene	□□□□□	□□	u□□	□.□	□
He□achloroethane	□□□□□	□□	u□□	□.□	□
In□eno□□,□,□c□□yrene	□□□□□	□.□	u□□	□.□	□
□aphthalene	□□□□□	□□	u□□	□.□	□
□entachlorophenol	□□□□□	□	u□□	□.□	□
□henanthrene	□□□□□	□□□[C]	u□□	□.□	□
□yrene	□□□□□	□□□[C]	u□□	□.□	□
□olatile □r□anics □y □□□□ S					
□,□,□□□richloroethane	□□□□□	□□□	u□□	□	□
□,□,□,□□□etrachloroethane	□□□□□	□□	u□□	□	□
□,□,□□□richloroethane	□□□□□	□	u□□	□.□	□
□,□□□ichloroethane	□□□□□	□□	u□□	□.□	□
□,□□□ichloroethene	□□□□□	□.□	u□□	□	□
□,□□□ichloro□en□ene	□□□□□	□□□	u□□	□	□
□,□□□ichloroethane	□□□□□	□	u□□	□.□	□
□,□□□ichloropropane	□□□□□	□□	u□□	□.□	□
□,□□□ichloro□en□ene	□□□□□	□□□	u□□	□	□
□,□□□ichloro□en□ene	□□□□□	□	u□□	□	□
□,□□□io□ane	□□□□□	□onitor □nly[B]	u□□	□□□□	□
□□□utanone	□□□□□	□□	u□□	□□	□
□□□hloroethylvinyl ether	□□□□□	□□	u□□	□□	□
□□He□anone	□□□□□	□□	u□□	□□	□
□□□ ethyl□□□pentanone	□□□□□	□□	u□□	□□	□

TABLE 1
GROUNDWATER ANALYTICAL RESULTS
Burgess BioPower, Berlin, New Hampshire

SAMPLE LOCATION SAMPLING DATE LAB SAMPLE ID	Analytical Method	NPDES RGP Category III.B. Effluent Limits	Units	MW-37OW 8/18/2011 L1112747-25	
□cetone	□□□□□	□onitor □nly[B]	u□□l	□□	
□crolein	□□□□□	□□	u□□l	□	□
□crylonitrile	□□□□□	□□	u□□l	□□	□
□en□ene	□□□□□	□□□[A]	u□□l	□	□
□ro□o□ichloro□ethane	□□□□□	□□	u□□l	□	□
□ro□o□or□	□□□□□	□□	u□□l	□	□
□ro□o□ethane	□□□□□	□□	u□□l	□	□
□ar□on □isul□i□e	□□□□□	□□	u□□l	□	□
□ar□on tetrachlori□e	□□□□□	□.□	u□□l	□	□
□hloro□en□ene	□□□□□	□□	u□□l	□.□	□
□hloroethane	□□□□□	□□	u□□l	□	□
□hloro□or□	□□□□□	□□	u□□l	□.□	□
□hloro□ethane	□□□□□	□□	u□□l	□□	□
cis□□,□□□ichloroethene	□□□□□	□□	u□□l	□	□
cis□□,□□□ichloropropene	□□□□□	□□	u□□l	□.□	□
□i□ro□ochloro□ethane	□□□□□	□□	u□□l	□	□
□i□ro□o□ethane	□□□□□	□□	u□□l	□	□
□thyl□en□ene	□□□□□	□□□[A]	u□□l	□	□
□ethyl tert □utyl ether	□□□□□	□□	u□□l	□□	□
□ethylene chlori□e	□□□□□	□.□	u□□l	□	□
o□□ylene	□□□□□	□□□[A]	u□□l	□.□	
p□□ □□ylene	□□□□□	□□□[A]	u□□l	□	□
Styrene	□□□□□	□□	u□□l	□	□
□ert□□utyl □lcohol	□□□□□	□onitor □nly[B]	u□□l	□□□	□
□ertiary□□□yl □ethyl □ther	□□□□□	□onitor □nly[B]	u□□l	□□	□
□etrachloroethene	□□□□□	□	u□□l	□	
□oluene	□□□□□	□□□[A]	u□□l	□	□
trans□□,□□□ichloroethene	□□□□□	□□	u□□l	□.□	□
trans□□,□□□ichloropropene	□□□□□	□□	u□□l	□.□	□
□richloroethene	□□□□□	□	u□□l	□	□
□richloro□luoro□ethane	□□□□□	□□	u□□l	□	□
□inyl acetate	□□□□□	□□	u□□l	□□	□
□inyl chori□e	□□□□□	□	u□□l	□	□
□ylene □□otal□	□□□□□	□□□[A]	u□□l	□.□	

Notes:

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□rey sha□in□in□icates la□oratory □etho□ reportin□ li□it in e□cee□ance o□□ate□ory III.□. e□luent li□it

□ □i□ite□ as total o□□en□ene, □oluene, □thyl□en□ene, an□ total □ylenes □□□□□□□□□□□ u□□□□

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ANALYTICAL REPORT

Lab Number:	L1114745
Client:	ESS Group, Inc. 100 Fifth Avenue 5th Floor Waltham, MA 02451
ATTN:	Jason Wiggin
Phone:	(781) 419-7696
Project Name:	BURGESS BIOPOWER
Project Number:	B408-000
Report Date:	09/22/11

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (2003), NJ (MA935), RI (LAO00065), ME (MA0086), PA (Registration #68-03671), USDA (Permit #S-72578), US Army Corps of Engineers, Naval FESC.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: BURGESS BIOPOWER
Project Number: B408-000

Lab Number: L1114745
Report Date: 09/22/11

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1114745-01	MW-37OW	BERLIN, NH	08/18/11 09:15

Project Name: BURGESS BIOPOWER **Lab Number:** L1114745
Project Number: B408-000 **Report Date:** 09/22/11

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

For additional information, please contact Client Services at 800-624-9220.

Sample Receipt

The samples were Field Filtered for Dissolved Metals only.

Semivolatile Organics

The surrogate recovery for L1114745-01 is outside the individual acceptance criteria for 2-Fluorophenol (20%), but within the overall method allowances. The results of the original analysis are reported; however, all associated compounds are considered to have a potential bias.

Semivolatile Organics - SIM

The surrogate recovery for L1114745-01 is outside the individual acceptance criteria for 2-Fluorophenol (16%), but within the overall method allowances. The results of the original analysis are reported; however, all associated compounds are considered to have a potential bias.

Project Name:	BURGESS BIOPOWER	**Lab Number:**	L1114745
Project Number:	B408-000	**Report Date:**	09/22/11

Case Narrative (continued)

PCB

The surrogate recoveries for L1114745-01 and the associated WG490903-4 Laboratory Duplicate are below the acceptance criteria for Decachlorobiphenyl (both 29%).

Metals

L1114745-01 has elevated detection limits for all analytes, except Iron and Mercury, due to the dilution required by the high concentrations of non-target analytes.

The WG490826-4 MS recovery, performed on L1114745-01, is below the acceptance criteria for Selenium (47%). A post digestion spike was performed with an acceptable recovery of 99%.

The WG490826-3 Laboratory Duplicate RPD, performed on L1114745-01, is above the acceptance criteria for Antimony (83%); however, the sample and Duplicate results are less than five times the reporting limit. Therefore, the RPD is valid.

Phenolics, Total

L1114745-01 has an elevated detection limit due to the dilution required by the sample matrix.

Chromium, Hexavalent

L1114745-01 has an elevated detection limit due to the dilution required by the sample matrix.

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

Authorized Signature: Michelle M. Morris

Title: Technical Director/Representative Date: 09/22/11

ORGANICS

VOLATILES

Project Name: BURGESS BIOPOWER **Lab Number:** L1114745

Project Number: B408-000 **Report Date:** 09/22/11

SAMPLE RESULTS

Lab ID:	L1114745-01	Date Collected:	08/18/11 09:15
Client ID:	MW-37OW	Date Received:	08/18/11
Sample Location:	BERLIN, NH	Field Prep:	See Narrative
Matrix:	Water		
Analytical Method:	14,504.1	Extraction Date:	08/24/11 10:00
Analytical Date:	08/24/11 16:49		
Analyst:	SH		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Pesticides by GC - Westborough Lab						
1,2-Dibromoethane	ND		ug/l	0.010	--	1

Project Name: BURGESS BIOPOWER **Lab Number:** L1114745

Project Number: B408-000 **Report Date:** 09/22/11

SAMPLE RESULTS

Lab ID:	L1114745-01	Date Collected:	08/18/11 09:15
Client ID:	MW-37OW	Date Received:	08/18/11
Sample Location:	BERLIN, NH	Field Prep:	See Narrative
Matrix:	Water		
Analytical Method:	5,624		
Analytical Date:	08/19/11 20:45		
Analyst:	KL		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	5.0	--	1
1,1-Dichloroethane	ND		ug/l	1.5	--	1
Chloroform	ND		ug/l	1.5	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane[1]	ND		ug/l	3.5	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.5	--	1
2-Chloroethylvinyl ether	ND		ug/l	10	--	1
Tetrachloroethene	2.0		ug/l	1.5	--	1
Chlorobenzene	ND		ug/l	3.5	--	1
Trichlorofluoromethane	ND		ug/l	5.0	--	1
1,2-Dichloroethane	ND		ug/l	1.5	--	1
1,1,1-Trichloroethane	ND		ug/l	2.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	1.5	--	1
cis-1,3-Dichloropropene	ND		ug/l	1.5	--	1
Bromoform	ND		ug/l	1.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	1.0	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	10	--	1
Bromomethane	ND		ug/l	5.0	--	1
Vinyl chloride	ND		ug/l	2.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.5	--	1
cis-1,2-Dichloroethene[1]	ND		ug/l	1.0	--	1
Trichloroethene	ND		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	5.0	--	1
1,3-Dichlorobenzene	ND		ug/l	5.0	--	1

Project Name: BURGESS BIOPOWER **Lab Number:** L1114745

Project Number: B408-000 **Report Date:** 09/22/11

SAMPLE RESULTS

Lab ID: L1114745-01 Date Collected: 08/18/11 09:15

Client ID: MW-37OW Date Received: 08/18/11

Sample Location: BERLIN, NH Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,4-Dichlorobenzene	ND		ug/l	5.0	--	1
p/m-Xylene[1]	ND		ug/l	2.0	--	1
o-xylene[1]	6.3		ug/l	1.0	--	1
Xylene (Total)[1]	6.3		ug/l	2.0	--	1
Styrene[1]	ND		ug/l	1.0	--	1
Acetone[1]	69		ug/l	10	--	1
Carbon disulfide[1]	ND		ug/l	5.0	--	1
2-Butanone[1]	ND		ug/l	10	--	1
Vinyl acetate[1]	ND		ug/l	20	--	1
4-Methyl-2-pentanone[1]	ND		ug/l	10	--	1
2-Hexanone[1]	ND		ug/l	10	--	1
Acrolein[1]	ND		ug/l	8.0	--	1
Acrylonitrile[1]	ND		ug/l	10	--	1
Methyl tert butyl ether[1]	ND		ug/l	20	--	1
Dibromomethane[1]	ND		ug/l	1.0	--	1
1,4-Dioxane[1]	ND		ug/l	2000	--	1
Tert-Butyl Alcohol[1]	ND		ug/l	100	--	1
Tertiary-Amyl Methyl Ether[1]	ND		ug/l	20	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Pentafluorobenzene	111		80-120
Fluorobenzene	104		80-120
4-Bromofluorobenzene	80		80-120

Project Name: BURGESS BIOPOWER **Lab Number:** L1114745

Project Number: B408-000 **Report Date:** 09/22/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 5,624
Analytical Date: 08/19/11 11:49
Analyst: KL

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG485777-2					
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[1]	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[1]	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	--

Project Name: BURGESS BIOPOWER
Project Number: B408-000
Lab Number: L1114745
Report Date: 09/22/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 5,624
Analytical Date: 08/19/11 11:49
Analyst: KL

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG485777-2					
1,4-Dichlorobenzene	ND		ug/l	5.0	--
p/m-Xylene[1]	ND		ug/l	2.0	--
o-xylene[1]	ND		ug/l	1.0	--
Xylene (Total)[1]	ND		ug/l	2.0	--
Styrene[1]	ND		ug/l	1.0	--
Acetone[1]	ND		ug/l	10	--
Carbon disulfide[1]	ND		ug/l	5.0	--
2-Butanone[1]	ND		ug/l	10	--
Vinyl acetate[1]	ND		ug/l	20	--
4-Methyl-2-pentanone[1]	ND		ug/l	10	--
2-Hexanone[1]	ND		ug/l	10	--
Acrolein[1]	ND		ug/l	8.0	--
Acrylonitrile[1]	ND		ug/l	10	--
Methyl tert butyl ether[1]	ND		ug/l	20	--
Dibromomethane[1]	ND		ug/l	1.0	--
1,4-Dioxane[1]	ND		ug/l	2000	--
Tert-Butyl Alcohol[1]	ND		ug/l	100	--
Tertiary-Amyl Methyl Ether[1]	ND		ug/l	20	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Pentafluorobenzene	120		80-120
Fluorobenzene	114		80-120
4-Bromofluorobenzene	103		80-120

Project Name: BURGESS BIOPOWER
Project Number: B408-000
Lab Number: L1114745
Report Date: 09/22/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 14,504.1
Analytical Date: 08/24/11 15:50
Analyst: SH
Extraction Date: 08/24/11 10:00

Parameter	Result	Qualifier	Units	RL	MDL
Pesticides by GC - Westborough Lab for sample(s): 01 Batch: WG486210-1					
1,2-Dibromoethane	ND		ug/l	0.010	--
1,2-Dibromo-3-chloropropane	ND		ug/l	0.010	--

Lab Control Sample Analysis

Batch Quality Control

Project Name: BURGESS BIOPOWER

Project Number: B408-000

Lab Number: L1114745

Report Date: 09/22/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG485777-1								
Methylene chloride	101		-		1-221	-		30
1,1-Dichloroethane	116		-		59-155	-		30
Chloroform	113		-		51-138	-		30
Carbon tetrachloride	86		-		70-140	-		30
1,2-Dichloropropane[1]	106		-		1-210	-		30
Dibromochloromethane	79		-		53-149	-		30
1,1,2-Trichloroethane	97		-		52-150	-		30
2-Chloroethylvinyl ether	100		-		1-305	-		30
Tetrachloroethene	110		-		64-148	-		30
Chlorobenzene	123		-		37-160	-		30
Trichlorofluoromethane	132		-		17-181	-		30
1,2-Dichloroethane	104		-		49-155	-		30
1,1,1-Trichloroethane	93		-		52-162	-		30
Bromodichloromethane	81		-		35-155	-		30
trans-1,3-Dichloropropene	83		-		17-183	-		30
cis-1,3-Dichloropropene	88		-		1-227	-		30
Bromoform	85		-		45-169	-		30
1,1,2,2-Tetrachloroethane	101		-		46-157	-		30
Benzene	115		-		37-151	-		30
Toluene	109		-		47-150	-		30
Ethylbenzene	128		-		37-162	-		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: BURGESS BIOPOWER

Project Number: B408-000

Lab Number: L1114745

Report Date: 09/22/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG485777-1								
Chloromethane	112		-		1-273	-		30
Bromomethane	116		-		1-242	-		30
Vinyl chloride	101		-		1-251	-		30
Chloroethane	110		-		14-230	-		30
1,1-Dichloroethene	116		-		1-234	-		30
trans-1,2-Dichloroethene	117		-		54-156	-		30
cis-1,2-Dichloroethene[1]	109		-		60-140	-		30
Trichloroethene	112		-		71-157	-		30
1,2-Dichlorobenzene	111		-		18-190	-		30
1,3-Dichlorobenzene	112		-		59-156	-		30
1,4-Dichlorobenzene	110		-		18-190	-		30
p/m-Xylene[1]	122		-		40-160	-		30
o-Xylene[1]	117		-		40-160	-		30
XYLENE (TOTAL)[1]	120		-		40-160	-		30
Styrene[1]	125		-		40-160	-		30
Acetone[1]	74		-		40-160	-		30
Carbon disulfide[1]	89		-		40-160	-		30
2-Butanone[1]	79		-		40-160	-		30
Vinyl acetate[1]	95		-		40-160	-		30
4-Methyl-2-pentanone[1]	87		-		40-160	-		30
2-Hexanone[1]	79		-		40-160	-		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: BURGESS BIOPOWER

Project Number: B408-000

Lab Number: L1114745

Report Date: 09/22/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG485777-1								
Acrolein[1]	90		-		40-160	-		30
Acrylonitrile[1]	74		-		40-160	-		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Pentafluorobenzene	118				80-120
Fluorobenzene	109				80-120
4-Bromofluorobenzene	109				80-120

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Pesticides by GC - Westborough Lab Associated sample(s): 01 Batch: WG486210-2								
1,2-Dibromoethane	100		-		70-130	-		20
1,2-Dibromo-3-chloropropane	112		-		70-130	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: BURGESS BIOPOWER
Project Number: B408-000

Lab Number: L1114745
Report Date: 09/22/11

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 QC Batch ID: WG485777-4 QC Sample: L1112760-01 Client ID: MS Sample												
Methylene chloride	ND	200	180	90		-	-		1-221	-		30
1,1-Dichloroethane	ND	200	190	96		-	-		59-155	-		30
Chloroform	ND	200	200	103		-	-		51-138	-		30
Carbon tetrachloride	ND	200	230	115		-	-		70-140	-		30
1,2-Dichloropropane[1]	ND	200	180	89		-	-		1-210	-		30
Dibromochloromethane	ND	200	200	101		-	-		53-149	-		30
1,1,2-Trichloroethane	ND	200	170	87		-	-		52-150	-		30
2-Chloroethylvinyl ether	ND	200	220	109		-	-		1-305	-		30
Tetrachloroethene	ND	200	150	77		-	-		64-148	-		30
Chlorobenzene	ND	200	150	75		-	-		37-160	-		30
Trichlorofluoromethane	ND	200	250	124		-	-		17-181	-		30
1,2-Dichloroethane	ND	200	200	100		-	-		49-155	-		30
1,1,1-Trichloroethane	ND	200	230	114		-	-		52-162	-		30
Bromodichloromethane	ND	200	190	97		-	-		35-155	-		30
trans-1,3-Dichloropropene	ND	200	180	88		-	-		17-183	-		30
cis-1,3-Dichloropropene	ND	200	160	78		-	-		1-227	-		30
Bromoform	ND	200	240	119		-	-		45-169	-		30
1,1,2,2-Tetrachloroethane	ND	200	220	108		-	-		46-157	-		30
Benzene	ND	200	190	95		-	-		35-151	-		30
Toluene	ND	200	150	74		-	-		47-150	-		30
Ethylbenzene	ND	200	160	79		-	-		37-162	-		30

Matrix Spike Analysis
Batch Quality Control

Project Name: BURGESS BIOPOWER
Project Number: B408-000

Lab Number: L1114745
Report Date: 09/22/11

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 QC Batch ID: WG485777-4 QC Sample: L1112760-01 Client ID: MS Sample												
Chloromethane	ND	200	190	95		-	-		1-273	-		30
Bromomethane	ND	200	170	84		-	-		1-242	-		30
Vinyl chloride	ND	200	190	94		-	-		1-251	-		30
Chloroethane	ND	200	190	94		-	-		14-230	-		30
1,1-Dichloroethene	ND	200	210	103		-	-		1-234	-		30
trans-1,2-Dichloroethene	ND	200	200	99		-	-		54-156	-		30
cis-1,2-Dichloroethene[1]	ND	200	180	88		-	-		60-140	-		30
Trichloroethene	ND	200	180	92		-	-		71-157	-		30
1,2-Dichlorobenzene	ND	200	150	77		-	-		18-190	-		30
1,3-Dichlorobenzene	ND	200	140	72		-	-		59-156	-		30
1,4-Dichlorobenzene	ND	200	140	71		-	-		18-190	-		30
p/m-Xylene[1]	ND	400	300	74		-	-		40-160	-		30
o-Xylene[1]	ND	200	140	72		-	-		40-160	-		30
XYLENE (TOTAL)[1]	ND	600	440	74		-	-		40-160	-		30
Styrene[1]	ND	200	160	80		-	-		40-160	-		30
Acetone[1]	2800	500	3400	123		-	-		40-160	-		30
Carbon disulfide[1]	ND	200	180	92		-	-		40-160	-		30
2-Butanone[1]	ND	500	620	124		-	-		40-160	-		30
Vinyl acetate[1]	ND	400	ND	**0**	Q	-	-		40-160	-		30
4-Methyl-2-pentanone[1]	ND	500	560	112		-	-		40-160	-		30
2-Hexanone[1]	ND	500	560	112		-	-		40-160	-		30

Matrix Spike Analysis
Batch Quality Control

Project Name: BURGESS BIOPOWER
Project Number: B408-000

Lab Number: L1114745
Report Date: 09/22/11

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 QC Batch ID: WG485777-4 QC Sample: L1112760-01 Client ID: MS Sample												
Acrolein[1]	ND	400	ND	**0**	Q	-	-		40-160	-		30
Acrylonitrile[1]	ND	400	500	124		-	-		40-160	-		30

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
4-Bromofluorobenzene	**79**	Q			80-120
Fluorobenzene	101				80-120
Pentafluorobenzene	107				80-120

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Pesticides by GC - Westborough Lab Associated sample(s): 01 QC Batch ID: WG486210-3 QC Sample: L1112727-01 Client ID: MS Sample												
1,2-Dibromoethane	ND	0.258	0.284	110		-	-		70-130	-		20
1,2-Dibromo-3-chloropropane	ND	0.258	0.329	128		-	-		70-130	-		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: BURGESS BIOPOWER
Project Number: B408-000

Lab Number: L1114745
Report Date: 09/22/11

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 QC Batch ID: WG485777-3 QC Sample: L1112760-01 Client ID: DUP Sample						
Methylene chloride	ND	ND	ug/l	NC		30
1,1-Dichloroethane	ND	ND	ug/l	NC		30
Chloroform	ND	ND	ug/l	NC		30
Carbon tetrachloride	ND	ND	ug/l	NC		30
1,2-Dichloropropane[1]	ND	ND	ug/l	NC		30
Dibromochloromethane	ND	ND	ug/l	NC		30
1,1,2-Trichloroethane	ND	ND	ug/l	NC		30
2-Chloroethylvinyl ether	ND	ND	ug/l	NC		30
Tetrachloroethene	ND	ND	ug/l	NC		30
Chlorobenzene	ND	ND	ug/l	NC		30
Trichlorofluoromethane	ND	ND	ug/l	NC		30
1,2-Dichloroethane	ND	ND	ug/l	NC		30
1,1,1-Trichloroethane	ND	ND	ug/l	NC		30
Bromodichloromethane	ND	ND	ug/l	NC		30
trans-1,3-Dichloropropene	ND	ND	ug/l	NC		30
cis-1,3-Dichloropropene	ND	ND	ug/l	NC		30
Bromoform	ND	ND	ug/l	NC		30
1,1,2,2-Tetrachloroethane	ND	ND	ug/l	NC		30
Benzene	ND	ND	ug/l	NC		30

Lab Duplicate Analysis
Batch Quality Control

Project Name: BURGESS BIOPOWER
Project Number: B408-000

Lab Number: L1114745
Report Date: 09/22/11

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 QC Batch ID: WG485777-3 QC Sample: L1112760-01 Client ID: DUP Sample					
Toluene	ND	ND	ug/l	NC	30
Ethylbenzene	ND	ND	ug/l	NC	30
Chloromethane	ND	ND	ug/l	NC	30
Bromomethane	ND	ND	ug/l	NC	30
Vinyl chloride	ND	ND	ug/l	NC	30
Chloroethane	ND	ND	ug/l	NC	30
1,1-Dichloroethene	ND	ND	ug/l	NC	30
trans-1,2-Dichloroethene	ND	ND	ug/l	NC	30
cis-1,2-Dichloroethene[1]	ND	ND	ug/l	NC	30
Trichloroethene	ND	ND	ug/l	NC	30
1,2-Dichlorobenzene	ND	ND	ug/l	NC	30
1,3-Dichlorobenzene	ND	ND	ug/l	NC	30
1,4-Dichlorobenzene	ND	ND	ug/l	NC	30
p/m-Xylene[1]	ND	ND	ug/l	NC	30
o-Xylene[1]	ND	ND	ug/l	NC	30
XYLENE (TOTAL)[1]	ND	ND	ug/l	NC	30
Styrene[1]	ND	ND	ug/l	NC	30
Acetone[1]	2800	3000	ug/l	7	30
Carbon disulfide[1]	ND	ND	ug/l	NC	30

Lab Duplicate Analysis
Batch Quality Control

Project Name: BURGESS BIOPOWER
Project Number: B408-000

Lab Number: L1114745
Report Date: 09/22/11

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 QC Batch ID: WG485777-3 QC Sample: L1112760-01 Client ID: DUP Sample					
2-Butanone[1]	ND	ND	ug/l	NC	30
Vinyl acetate[1]	ND	ND	ug/l	NC	30
4-Methyl-2-pentanone[1]	ND	ND	ug/l	NC	30
2-Hexanone[1]	ND	ND	ug/l	NC	30
Acrolein[1]	ND	ND	ug/l	NC	30
Acrylonitrile[1]	ND	ND	ug/l	NC	30

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Pentafluorobenzene	114		113		80-120
Fluorobenzene	109		107		80-120
4-Bromofluorobenzene	106		84		80-120

SEMIVOLATILES

Project Name: BURGESS BIOPOWER **Lab Number:** L1114745

Project Number: B408-000 **Report Date:** 09/22/11

SAMPLE RESULTS

Lab ID:	L1114745-01	Date Collected:	08/18/11 09:15
Client ID:	MW-37OW	Date Received:	08/18/11
Sample Location:	BERLIN, NH	Field Prep:	See Narrative
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8270C	Extraction Date:	08/23/11 11:12
Analytical Date:	08/25/11 12:24		
Analyst:	JB		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzidine	ND		ug/l	20	--	1
1,2,4-Trichlorobenzene	ND		ug/l	5.0	--	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	--	1
1,2-Dichlorobenzene	ND		ug/l	2.0	--	1
1,3-Dichlorobenzene	ND		ug/l	2.0	--	1
1,4-Dichlorobenzene	ND		ug/l	2.0	--	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	--	1
2,4-Dinitrotoluene	ND		ug/l	5.0	--	1
2,6-Dinitrotoluene	ND		ug/l	5.0	--	1
Azobenzene	ND		ug/l	2.0	--	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	--	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	--	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	--	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	--	1
Hexachlorocyclopentadiene	ND		ug/l	20	--	1
Isophorone	ND		ug/l	5.0	--	1
Nitrobenzene	ND		ug/l	2.0	--	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/l	2.0	--	1
Bis(2-Ethylhexyl)phthalate	ND		ug/l	3.0	--	1
Butyl benzyl phthalate	ND		ug/l	5.0	--	1
Di-n-butylphthalate	ND		ug/l	5.0	--	1
Di-n-octylphthalate	ND		ug/l	5.0	--	1
Diethyl phthalate	ND		ug/l	5.0	--	1
Dimethyl phthalate	ND		ug/l	5.0	--	1
Aniline	ND		ug/l	2.0	--	1
4-Chloroaniline	ND		ug/l	5.0	--	1
2-Nitroaniline	ND		ug/l	5.0	--	1
3-Nitroaniline	ND		ug/l	5.0	--	1
4-Nitroaniline	ND		ug/l	5.0	--	1
Dibenzofuran	ND		ug/l	2.0	--	1
n-Nitrosodimethylamine	ND		ug/l	2.0	--	1

Project Name: BURGESS BIOPOWER **Lab Number:** L1114745

Project Number: B408-000 **Report Date:** 09/22/11

SAMPLE RESULTS

Lab ID: L1114745-01 Date Collected: 08/18/11 09:15

Client ID: MW-37OW Date Received: 08/18/11

Sample Location: BERLIN, NH Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,6-Trichlorophenol	ND		ug/l	5.0	--	1
P-Chloro-M-Cresol	ND		ug/l	2.0	--	1
2-Chlorophenol	ND		ug/l	2.0	--	1
2,4-Dichlorophenol	ND		ug/l	5.0	--	1
2,4-Dimethylphenol	ND		ug/l	5.0	--	1
2-Nitrophenol	ND		ug/l	10	--	1
4-Nitrophenol	ND		ug/l	10	--	1
2,4-Dinitrophenol	ND		ug/l	20	--	1
4,6-Dinitro-o-cresol	ND		ug/l	10	--	1
Phenol	ND		ug/l	5.0	--	1
2-Methylphenol	ND		ug/l	5.0	--	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	--	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	--	1
Benzoic Acid	ND		ug/l	50	--	1
Benzyl Alcohol	ND		ug/l	2.0	--	1
Carbazole	ND		ug/l	2.0	--	1
Pyridine	ND		ug/l	5.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	**20**	Q	21-120
Phenol-d6	16		10-120
Nitrobenzene-d5	61		23-120
2-Fluorobiphenyl	53		15-120
2,4,6-Tribromophenol	42		10-120
4-Terphenyl-d14	58		41-149

Project Name: BURGESS BIOPOWER **Lab Number:** L1114745

Project Number: B408-000 **Report Date:** 09/22/11

SAMPLE RESULTS

Lab ID:	L1114745-01	Date Collected:	08/18/11 09:15
Client ID:	MW-37OW	Date Received:	08/18/11
Sample Location:	BERLIN, NH	Field Prep:	See Narrative
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8270C-SIM	Extraction Date:	08/23/11 11:12
Analytical Date:	08/25/11 10:22		
Analyst:	AS		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.20	--	1
2-Chloronaphthalene	ND		ug/l	0.20	--	1
Fluoranthene	ND		ug/l	0.20	--	1
Hexachlorobutadiene	ND		ug/l	0.50	--	1
Naphthalene	ND		ug/l	0.20	--	1
Benzo(a)anthracene	ND		ug/l	0.20	--	1
Benzo(a)pyrene	ND		ug/l	0.20	--	1
Benzo(b)fluoranthene	ND		ug/l	0.20	--	1
Benzo(k)fluoranthene	ND		ug/l	0.20	--	1
Chrysene	ND		ug/l	0.20	--	1
Acenaphthylene	ND		ug/l	0.20	--	1
Anthracene	ND		ug/l	0.20	--	1
Benzo(ghi)perylene	ND		ug/l	0.20	--	1
Fluorene	ND		ug/l	0.20	--	1
Phenanthrene	ND		ug/l	0.20	--	1
Dibenzo(a,h)anthracene	ND		ug/l	0.20	--	1
Indeno(1,2,3-cd)Pyrene	ND		ug/l	0.20	--	1
Pyrene	ND		ug/l	0.20	--	1
1-Methylnaphthalene	0.23		ug/l	0.20	--	1
2-Methylnaphthalene	ND		ug/l	0.20	--	1
Pentachlorophenol	ND		ug/l	0.80	--	1
Hexachlorobenzene	ND		ug/l	0.80	--	1
Hexachloroethane	ND		ug/l	0.80	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	**16**	Q	21-120
Phenol-d6	12		10-120
Nitrobenzene-d5	44		23-120
2-Fluorobiphenyl	57		15-120
2,4,6-Tribromophenol	42		10-120
4-Terphenyl-d14	52		41-149

Project Name: BURGESS BIOPOWER
Project Number: B408-000
Lab Number: L1114745
Report Date: 09/22/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270C
Analytical Date: 08/25/11 10:44
Analyst: JB

Extraction Method: EPA 3510C
Extraction Date: 08/23/11 11:12

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG490854-1					
Acenaphthene	ND		ug/l	2.0	--
Benzidine	ND		ug/l	20	--
1,2,4-Trichlorobenzene	ND		ug/l	5.0	--
Hexachlorobenzene	ND		ug/l	2.0	--
Bis(2-chloroethyl)ether	ND		ug/l	2.0	--
2-Chloronaphthalene	ND		ug/l	2.0	--
1,2-Dichlorobenzene	ND		ug/l	2.0	--
1,3-Dichlorobenzene	ND		ug/l	2.0	--
1,4-Dichlorobenzene	ND		ug/l	2.0	--
3,3'-Dichlorobenzidine	ND		ug/l	5.0	--
2,4-Dinitrotoluene	ND		ug/l	5.0	--
2,6-Dinitrotoluene	ND		ug/l	5.0	--
Azobenzene	ND		ug/l	2.0	--
Fluoranthene	ND		ug/l	2.0	--
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	--
4-Bromophenyl phenyl ether	ND		ug/l	2.0	--
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	--
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	--
Hexachlorobutadiene	ND		ug/l	2.0	--
Hexachlorocyclopentadiene	ND		ug/l	20	--
Hexachloroethane	ND		ug/l	2.0	--
Isophorone	ND		ug/l	5.0	--
Naphthalene	ND		ug/l	2.0	--
Nitrobenzene	ND		ug/l	2.0	--
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/l	2.0	--
Bis(2-Ethylhexyl)phthalate	ND		ug/l	3.0	--
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	--

Project Name: BURGESS BIOPOWER
Project Number: B408-000
Lab Number: L1114745
Report Date: 09/22/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270C
Analytical Date: 08/25/11 10:44
Analyst: JB

Extraction Method: EPA 3510C
Extraction Date: 08/23/11 11:12

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG490854-1					
Benzo(a)anthracene	ND		ug/l	2.0	--
Benzo(a)pyrene	ND		ug/l	2.0	--
Benzo(b)fluoranthene	ND		ug/l	2.0	--
Benzo(k)fluoranthene	ND		ug/l	2.0	--
Chrysene	ND		ug/l	2.0	--
Acenaphthylene	ND		ug/l	2.0	--
Anthracene	ND		ug/l	2.0	--
Benzo(ghi)perylene	ND		ug/l	2.0	--
Fluorene	ND		ug/l	2.0	--
Phenanthrene	ND		ug/l	2.0	--
Dibenzo(a,h)anthracene	ND		ug/l	2.0	--
Indeno(1,2,3-cd)Pyrene	ND		ug/l	2.0	--
Pyrene	ND		ug/l	2.0	--
Aniline	ND		ug/l	2.0	--
4-Chloroaniline	ND		ug/l	5.0	--
1-Methylnaphthalene	ND		ug/l	2.0	--
2-Nitroaniline	ND		ug/l	5.0	--
3-Nitroaniline	ND		ug/l	5.0	--
4-Nitroaniline	ND		ug/l	5.0	--
Dibenzofuran	ND		ug/l	2.0	--
2-Methylnaphthalene	ND		ug/l	2.0	--
n-Nitrosodimethylamine	ND		ug/l	2.0	--
2,4,6-Trichlorophenol	ND		ug/l	5.0	--
P-Chloro-M-Cresol	ND		ug/l	2.0	--
2-Chlorophenol	ND		ug/l	2.0	--
2,4-Dichlorophenol	ND		ug/l	5.0	--
2,4-Dimethylphenol	ND		ug/l	5.0	--
2-Nitrophenol	ND		ug/l	10	--
4-Nitrophenol	ND		ug/l	10	--
2,4-Dinitrophenol	ND		ug/l	20	--
4,6-Dinitro-o-cresol	ND		ug/l	10	--

Project Name: BURGESS BIOPOWER
Project Number: B408-000
Lab Number: L1114745
Report Date: 09/22/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270C
Analytical Date: 08/25/11 10:44
Analyst: JB

Extraction Method: EPA 3510C
Extraction Date: 08/23/11 11:12

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG490854-1					
Pentachlorophenol	ND		ug/l	10	--
Phenol	ND		ug/l	5.0	--
2-Methylphenol	ND		ug/l	5.0	--
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	--
2,4,5-Trichlorophenol	ND		ug/l	5.0	--
Benzoic Acid	ND		ug/l	50	--
Benzyl Alcohol	ND		ug/l	2.0	--
Carbazole	ND		ug/l	2.0	--
Pyridine	ND		ug/l	5.0	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	27		21-120
Phenol-d6	17		10-120
Nitrobenzene-d5	57		23-120
2-Fluorobiphenyl	56		15-120
2,4,6-Tribromophenol	58		10-120
4-Terphenyl-d14	70		41-149

Project Name: BURGESS BIOPOWER
Project Number: B408-000
Lab Number: L1114745
Report Date: 09/22/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270C-SIM
Analytical Date: 08/25/11 09:48
Analyst: AS

Extraction Method: EPA 3510C
Extraction Date: 08/23/11 11:12

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01 Batch: WG490858-1					
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	--
Hexachloroethane	ND		ug/l	0.80	--

Project Name: BURGESS BIOPOWER
Project Number: B408-000

Lab Number: L1114745
Report Date: 09/22/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270C-SIM
Analytical Date: 08/25/11 09:48
Analyst: AS

Extraction Method: EPA 3510C
Extraction Date: 08/23/11 11:12

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01 Batch: WG490858-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	43		21-120
Phenol-d6	28		10-120
Nitrobenzene-d5	84		23-120
2-Fluorobiphenyl	82		15-120
2,4,6-Tribromophenol	86		10-120
4-Terphenyl-d14	106		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: BURGESS BIOPOWER

Project Number: B408-000

Lab Number: L1114745

Report Date: 09/22/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG490854-2 WG490854-3								
Acenaphthene	94		86		37-111	9		30
1,2,4-Trichlorobenzene	98		89		39-98	10		30
2-Chloronaphthalene	121		106		40-140	13		30
1,2-Dichlorobenzene	90		85		40-140	6		30
1,4-Dichlorobenzene	90		84		36-97	7		30
2,4-Dinitrotoluene	96		91		24-96	5		30
2,6-Dinitrotoluene	88		79		40-140	11		30
Fluoranthene	107		97		40-140	10		30
4-Chlorophenyl phenyl ether	100		89		40-140	12		30
n-Nitrosodi-n-propylamine	79		76		41-116	4		30
Butyl benzyl phthalate	102		94		40-140	8		30
Anthracene	110		99		40-140	11		30
Pyrene	102		91		26-127	11		30
P-Chloro-M-Cresol	90		84		23-97	7		30
2-Chlorophenol	88		83		27-123	6		30
2-Nitrophenol	86		82		30-130	5		30
4-Nitrophenol	48		41		10-80	16		30
2,4-Dinitrophenol	84		80		20-130	5		30
Pentachlorophenol	95		89		9-103	7		30
Phenol	35		34		12-110	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: BURGESS BIOPOWER

Project Number: B408-000

Lab Number: L1114745

Report Date: 09/22/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG490854-2 WG490854-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	55		48		21-120
Phenol-d6	32		31		10-120
Nitrobenzene-d5	99		90		23-120
2-Fluorobiphenyl	96		87		15-120
2,4,6-Tribromophenol	98		91		10-120
4-Terphenyl-d14	98		88		41-149

Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01 Batch: WG490858-2 WG490858-3

Acenaphthene	86		93		37-111	8		40
2-Chloronaphthalene	116		124		40-140	7		40
Fluoranthene	110		109		40-140	1		40
Anthracene	86		93		40-140	8		40
Pyrene	104		107		26-127	3		40
Pentachlorophenol	59		61		9-103	3		40

Lab Control Sample Analysis

Batch Quality Control

Project Name: BURGESS BIOPOWER

Project Number: B408-000

Lab Number: L1114745

Report Date: 09/22/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01 Batch: WG490858-2 WG490858-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	49		49		21-120
Phenol-d6	36		37		10-120
Nitrobenzene-d5	95		100		23-120
2-Fluorobiphenyl	91		100		15-120
2,4,6-Tribromophenol	97		104		10-120
4-Terphenyl-d14	95		97		41-149

PCBS

Project Name: BURGESS BIOPOWER **Lab Number:** L1114745

Project Number: B408-000 **Report Date:** 09/22/11

SAMPLE RESULTS

Lab ID:	L1114745-01	Date Collected:	08/18/11 09:15
Client ID:	MW-37OW	Date Received:	08/18/11
Sample Location:	BERLIN, NH	Field Prep:	See Narrative
Matrix:	Water	Extraction Method:	EPA 608
Analytical Method:	5,608	Extraction Date:	08/24/11 13:25
Analytical Date:	08/25/11 14:03	Cleanup Method1:	EPA 3665A
Analyst:	BW	Cleanup Date1:	08/25/11
		Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/25/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Polychlorinated Biphenyls by GC - Westborough Lab						
Aroclor 1016	ND		ug/l	0.250	--	1
Aroclor 1221	ND		ug/l	0.250	--	1
Aroclor 1232	ND		ug/l	0.250	--	1
Aroclor 1242	ND		ug/l	0.250	--	1
Aroclor 1248	ND		ug/l	0.250	--	1
Aroclor 1254	ND		ug/l	0.250	--	1
Aroclor 1260	ND		ug/l	0.250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	67		30-150	A
Decachlorobiphenyl	**29**	Q	30-150	A

Project Name: BURGESS BIOPOWER

Project Number: B408-000

Lab Number: L1114745

Report Date: 09/22/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 5,608
Analytical Date: 08/25/11 13:12
Analyst: BW

Extraction Method: EPA 608
Extraction Date: 08/24/11 13:25
Cleanup Method1: EPA 3665A
Cleanup Date1: 08/25/11
Cleanup Method2: EPA 3660B
Cleanup Date2: 08/25/11

Parameter	Result	Qualifier	Units	RL	MDL
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01 Batch: WG490903-1					
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	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	52		30-150	A
Decachlorobiphenyl	73		30-150	A

Matrix Spike Analysis
Batch Quality Control

Project Name: BURGESS BIOPOWER
Project Number: B408-000

Lab Number: L1114745
Report Date: 09/22/11

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01 QC Batch ID: WG490903-3 QC Sample: L1114745-01 Client ID: MW-37OW												
Aroclor 1016	ND	1	0.901	90		-	-		40-126	-		30
Aroclor 1260	ND	1	0.593	59		-	-		40-127	-		30

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria	*Column*
2,4,5,6-Tetrachloro-m-xylene	63				30-150	A
Decachlorobiphenyl	30				30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: BURGESS BIOPOWER

Project Number: B408-000

Lab Number: L1114745

Report Date: 09/22/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01 Batch: WG490903-2								
Aroclor 1016	76		-		40-126	-		30
Aroclor 1260	71		-		40-127	-		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	52				30-150	A
Decachlorobiphenyl	80				30-150	A

Lab Duplicate Analysis
Batch Quality Control

Project Name: BURGESS BIOPOWER
Project Number: B408-000

Lab Number: L1114745
Report Date: 09/22/11

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01 QC Batch ID: WG490903-4 QC Sample: L1114745-01 Client ID: MW-37OW						
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
Aroclor 1260	ND	ND	ug/l	NC		30

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	67		53		30-150	A
Decachlorobiphenyl	**29**	Q	**29**	Q	30-150	A

METALS

Project Name: BURGESS BIOPOWER
Project Number: B408-000
Lab Number: L1114745
Report Date: 09/22/11

SAMPLE RESULTS

Lab ID: L1114745-01
Client ID: MW-37OW
Sample Location: BERLIN, NH
Matrix: Water
Date Collected: 08/18/11 09:15
Date Received: 08/18/11
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Antimony, Dissolved	0.0037		mg/l	0.0020	--	2	08/19/11 12:00	08/23/11 01:00	EPA 3005A	1,6020	BM
Arsenic, Dissolved	0.0109		mg/l	0.0010	--	2	08/19/11 12:00	08/23/11 01:00	EPA 3005A	1,6020	BM
Cadmium, Dissolved	ND		mg/l	0.0004	--	2	08/19/11 12:00	08/23/11 01:00	EPA 3005A	1,6020	BM
Chromium, Dissolved	0.0146		mg/l	0.0010	--	2	08/19/11 12:00	08/23/11 01:00	EPA 3005A	1,6020	BM
Copper, Dissolved	0.0099		mg/l	0.0010	--	2	08/19/11 12:00	08/23/11 01:00	EPA 3005A	1,6020	BM
Iron, Dissolved	1.2		mg/l	0.05	--	1	08/19/11 12:00	08/23/11 10:17	EPA 3005A	19,200.7	MG
Lead, Dissolved	0.0088		mg/l	0.0010	--	2	08/19/11 12:00	08/23/11 01:00	EPA 3005A	1,6020	BM
Mercury, Dissolved	ND		mg/l	0.0002	--	1	08/24/11 15:00	08/24/11 20:33	EPA 245.1	3,245.1	JP
Nickel, Dissolved	0.0323		mg/l	0.0010	--	2	08/19/11 12:00	08/23/11 01:00	EPA 3005A	1,6020	BM
Selenium, Dissolved	ND		mg/l	0.002	--	2	08/19/11 12:00	08/23/11 01:00	EPA 3005A	1,6020	BM
Silver, Dissolved	ND		mg/l	0.0008	--	2	08/19/11 12:00	08/23/11 01:00	EPA 3005A	1,6020	BM
Zinc, Dissolved	0.0436		mg/l	0.0100	--	2	08/19/11 12:00	08/23/11 01:00	EPA 3005A	1,6020	BM

Project Name: BURGESS BIOPOWER **Lab Number:** L1114745

Project Number: B408-000 **Report Date:** 09/22/11

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Westborough Lab for sample(s): 01 Batch: WG486278-1										
Mercury, Dissolved	ND		mg/l	0.0002	--	1	08/24/11 15:00	08/24/11 20:28	3,245.1	JP

Prep Information

Digestion Method: EPA 245.1

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Westborough Lab for sample(s): 01 Batch: WG490825-1										
Iron, Dissolved	ND		mg/l	0.05	--	1	08/19/11 12:00	08/23/11 10:12	19,200.7	MG

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Westborough Lab for sample(s): 01 Batch: WG490826-1										
Antimony, Dissolved	ND		mg/l	0.0010	--	1	08/19/11 12:00	08/23/11 00:48	1,6020	BM
Arsenic, Dissolved	ND		mg/l	0.0005	--	1	08/19/11 12:00	08/23/11 00:48	1,6020	BM
Cadmium, Dissolved	ND		mg/l	0.0002	--	1	08/19/11 12:00	08/23/11 00:48	1,6020	BM
Chromium, Dissolved	ND		mg/l	0.0005	--	1	08/19/11 12:00	08/23/11 00:48	1,6020	BM
Copper, Dissolved	ND		mg/l	0.0005	--	1	08/19/11 12:00	08/23/11 00:48	1,6020	BM
Lead, Dissolved	ND		mg/l	0.0005	--	1	08/19/11 12:00	08/23/11 00:48	1,6020	BM
Nickel, Dissolved	ND		mg/l	0.0005	--	1	08/19/11 12:00	08/23/11 00:48	1,6020	BM
Selenium, Dissolved	ND		mg/l	0.001	--	1	08/19/11 12:00	08/23/11 00:48	1,6020	BM
Silver, Dissolved	ND		mg/l	0.0004	--	1	08/19/11 12:00	08/23/11 00:48	1,6020	BM
Zinc, Dissolved	ND		mg/l	0.0050	--	1	08/19/11 12:00	08/23/11 00:48	1,6020	BM

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis

Batch Quality Control

Project Name: BURGESS BIOPOWER

Project Number: B408-000

Lab Number: L1114745

Report Date: 09/22/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 01 Batch: WG486278-2								
Mercury, Dissolved	94		-		85-115	-		
Dissolved Metals - Westborough Lab Associated sample(s): 01 Batch: WG490825-2								
Iron, Dissolved	100		-		85-115	-		
Dissolved Metals - Westborough Lab Associated sample(s): 01 Batch: WG490826-2								
Antimony, Dissolved	100		-		80-120	-		
Arsenic, Dissolved	107		-		80-120	-		
Cadmium, Dissolved	113		-		80-120	-		
Chromium, Dissolved	102		-		80-120	-		
Copper, Dissolved	105		-		80-120	-		
Lead, Dissolved	108		-		80-120	-		
Nickel, Dissolved	105		-		80-120	-		
Selenium, Dissolved	107		-		80-120	-		
Silver, Dissolved	102		-		80-120	-		
Zinc, Dissolved	108		-		80-120	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: BURGESS BIOPOWER
Project Number: B408-000

Lab Number: L1114745
Report Date: 09/22/11

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG486278-4 QC Sample: L1112956-01 Client ID: MS Sample												
Mercury, Dissolved	ND	0.001	0.0014	**143**	Q	-	-		70-130	-		20
Dissolved Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG490825-4 QC Sample: L1114745-01 Client ID: MW-37OW												
Iron, Dissolved	1.2	1	2.2	100		-	-		75-125	-		20
Dissolved Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG490826-4 QC Sample: L1114745-01 Client ID: MW-37OW												
Antimony, Dissolved	0.0037	0.5	0.5389	107		-	-		80-120	-		20
Arsenic, Dissolved	0.0109	0.12	0.1417	109		-	-		80-120	-		20
Cadmium, Dissolved	ND	0.051	0.0557	109		-	-		80-120	-		20
Chromium, Dissolved	0.0146	0.2	0.2168	101		-	-		80-120	-		20
Copper, Dissolved	0.0099	0.25	0.2685	103		-	-		80-120	-		20
Lead, Dissolved	0.0088	0.51	0.4933	95		-	-		80-120	-		20
Nickel, Dissolved	0.0323	0.5	0.5421	102		-	-		80-120	-		20
Selenium, Dissolved	ND	0.12	0.056	**47**	Q	-	-		80-120	-		20
Silver, Dissolved	ND	0.05	0.0486	97		-	-		80-120	-		20
Zinc, Dissolved	0.0436	0.5	0.5677	105		-	-		80-120	-		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: BURGESS BIOPOWER
Project Number: B408-000

Lab Number: L1114745
Report Date: 09/22/11

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG486278-3 QC Sample: L1112956-01 Client ID: DUP Sample						
Mercury, Dissolved	ND	ND	mg/l	NC		20
Dissolved Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG490825-3 QC Sample: L1114745-01 Client ID: MW-37OW						
Iron, Dissolved	1.2	1.3	mg/l	8		20
Dissolved Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG490826-3 QC Sample: L1114745-01 Client ID: MW-37OW						
Antimony, Dissolved	0.0037	0.0090	mg/l	**83**		20
Arsenic, Dissolved	0.0109	0.0118	mg/l	8		20
Cadmium, Dissolved	ND	ND	mg/l	NC		20
Chromium, Dissolved	0.0146	0.0166	mg/l	13		20
Copper, Dissolved	0.0099	0.0120	mg/l	19		20
Lead, Dissolved	0.0088	0.0091	mg/l	3		20
Nickel, Dissolved	0.0323	0.0337	mg/l	4		20
Selenium, Dissolved	ND	ND	mg/l	NC		20
Silver, Dissolved	ND	ND	mg/l	NC		20
Zinc, Dissolved	0.0436	0.0441	mg/l	1		20

INORGANICS
&
MISCELLANEOUS

Project Name: BURGESS BIOPOWER
Project Number: B408-000
Lab Number: L1114745
Report Date: 09/22/11

SAMPLE RESULTS

Lab ID: L1114745-01
Client ID: MW-37OW
Sample Location: BERLIN, NH
Matrix: Water

Date Collected: 08/18/11 09:15
Date Received: 08/18/11
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total Suspended	50		mg/l	5.0	NA	1	-	08/19/11 08:00	30,2540D	DW
Cyanide, Total	ND		mg/l	0.005	--	1	08/19/11 13:00	08/19/11 16:46	30,4500CN-CE	JO
Chlorine, Total Residual	ND		mg/l	0.02	--	1	-	08/18/11 22:00	30,4500CL-D	KK
TPH	ND		mg/l	4.00	--	1	08/22/11 14:15	08/25/11 13:15	74,1664A	JO
Phenolics, Total	ND		mg/l	0.30	--	10	08/18/11 20:25	08/19/11 01:30	4,420.1	TP
Chromium, Hexavalent	ND		mg/l	0.100	--	10	08/19/11 01:50	08/19/11 02:07	30,3500CR-D	KK
Anions by Ion Chromatography - Westborough Lab										
Chloride	46		mg/l	0.50	--	1	-	08/22/11 18:24	44,300.0	AU

Project Name: BURGESS BIOPOWER **Lab Number:** L1114745

Project Number: B408-000 **Report Date:** 09/22/11

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG485360-1										
Chlorine, Total Residual	ND		mg/l	0.02	--	1	-	08/18/11 22:00	30,4500CL-D	KK
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG485365-1										
Phenolics, Total	ND		mg/l	0.03	--	1	08/18/11 20:25	08/19/11 01:27	4,420.1	TP
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG485394-1										
Chromium, Hexavalent	ND		mg/l	0.010	--	1	08/19/11 01:50	08/19/11 02:06	30,3500CR-D	KK
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG485477-2										
Cyanide, Total	ND		mg/l	0.005	--	1	08/19/11 13:00	08/19/11 16:39	30,4500CN-CE	JO
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG485796-2										
TPH	ND		mg/l	4.00	--	1	08/22/11 14:15	08/25/11 13:15	74,1664A	JO
Anions by Ion Chromatography - Westborough Lab for sample(s): 01 Batch: WG486058-1										
Chloride	ND		mg/l	0.50	--	1	-	08/22/11 18:00	44,300.0	AU
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG491200-1										
Solids, Total Suspended	ND		mg/l	5.0	NA	1	-	08/19/11 08:00	30,2540D	DW

Lab Control Sample Analysis

Batch Quality Control

Project Name: BURGESS BIOPOWER

Project Number: B408-000

Lab Number: L1114745

Report Date: 09/22/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG485360-2								
Chlorine, Total Residual	97		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG485365-2								
Phenolics, Total	101		-		82-111	-		12
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG485394-2								
Chromium, Hexavalent	98		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG485477-1								
Cyanide, Total	93		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG485796-1								
TPH	85		-		64-132	-		34
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01 Batch: WG486058-2								
Chloride	105		-		90-110	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: BURGESS BIOPOWER
Project Number: B408-000

Lab Number: L1114745
Report Date: 09/22/11

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG485365-3 QC Sample: L1112483-02 Client ID: MS Sample												
Phenolics, Total	0.03	0.8	0.74	89		-	-		77-124	-		12
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG485394-4 QC Sample: L1112747-25 Client ID: MS Sample												
Chromium, Hexavalent	ND	0.1	0.093	93		-	-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG485477-3 QC Sample: L1112727-01 Client ID: MS Sample												
Cyanide, Total	ND	0.2	0.194	97		-	-		90-110	-		30
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG485796-3 QC Sample: L1112727-01 Client ID: MS Sample												
TPH	ND	21.1	16.8	80		-	-		64-132	-		34
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01 QC Batch ID: WG486058-3 QC Sample: L1112635-01 Client ID: MS Sample												
Chloride	130	100	230	102		-	-		40-151	-		18

Lab Duplicate Analysis
Batch Quality Control

Project Name: BURGESS BIOPOWER
Project Number: B408-000

Lab Number: L1114745
Report Date: 09/22/11

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG485360-3 QC Sample: L1112727-01 Client ID: DUP Sample						
Chlorine, Total Residual	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG485365-4 QC Sample: L1112483-01 Client ID: DUP Sample						
Phenolics, Total	ND	ND	mg/l	NC		12
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG485394-3 QC Sample: L1112747-25 Client ID: DUP Sample						
Chromium, Hexavalent	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG485477-4 QC Sample: L1114745-01 Client ID: MW-37OW						
Cyanide, Total	ND	ND	mg/l	NC		30
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG485796-4 QC Sample: L1112727-01 Client ID: DUP Sample						
TPH	ND	ND	mg/l	NC		34
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01 QC Batch ID: WG486058-4 QC Sample: L1112635-01 Client ID: DUP Sample						
Chloride	130	130	mg/l	0		18
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG491200-2 QC Sample: L1113562-60 Client ID: DUP Sample						
Solids, Total Suspended	2200	2300	mg/l	4		32

Project Name:	BURGESS BIOPOWER	**Lab Number:**	L1114745
Project Number:	B408-000	**Report Date:**	09/22/11

GLOSSARY

Acronyms

EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit.
C	- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
D	- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
E	- Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
G	- The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
H	- The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
I	- The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported due to obvious interference.
M	- Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
NJ	- Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

Report Format: Data Usability Report

Project Name:	BURGESS BIOPOWER	**Lab Number:**	L1114745
Project Number:	B408-000	**Report Date:**	09/22/11

Data Qualifiers

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the reporting limit (RL) for the sample.

Report Format: Data Usability Report

Project Name:	BURGESS BIOPOWER	**Lab Number:**	L1114745
Project Number:	B408-000	**Report Date:**	09/22/11

REFERENCES

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

3 Methods for the Determination of Metals in Environmental Samples, Supplement I. EPA/600/R-94/111. May 1994.

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.

44 Methods for the Determination of Inorganic Substances in Environmental Samples, EPA/600/R-93/100, August 1993.

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.

LIMITATION OF LIABILITIES

Alpha Analytical 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 shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical 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.

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

Certificate/Approval Program Summary

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□he □ollo□in□ list inclu□es only those analytes□□ etho□s □or □hich certi□ication□approval is currently hel□.
For a co□plete listin□ o□analytes □or the re□erence□ □etho□s, please contact your □lpha □usto□er Service □epresentative.

Connecticut Department of Public Health <u>□erti□icate□□a□ I□</u>□□H□□□□□. ***NELAP Accredited Solid Waste/Soil.***

Drinking Water □<u>Inor□anic □ara□eters</u>□□olor, pH, □ur□i□ity, □on□uctivity, □l□alinity, □hlori□e, Free □esi□ual □hlorine, Fluori□e, □alciu□ Har□ness, Sul□ate, □itrate, □itrite, □lu□inu□, □nti□ony, □rsenic, □ariu□, □erylliu□, □a□□iu□, □alciu□, □hro□iu□, □opper, Iron, □ea□, □a□nesiu□, □an□anese, □ercury, □oly□□enu□, □ic□el, □otassiu□, Seleniu□, Silver, So□iu□, □halliu□, □ana□iu□, □inc, □otal □issolve□ Soli□s, □otal □r□anic □ar□on, □otal □yani□e, □erchlorate. <u>□r□anic □ara□eters□</u> □olatile □r□anics □□□.□, □otal □rihalo□ethanes □□□.□, □,□□□i□ro□o□□□chloropropane □□□□□□, □thylene □i□ro□i□e □□□□□, □,□□□io□ane □□o□ □□□□□. <u>□icro□iolo□y □ara□eters</u>□□otal □oli□or□ □□F □ □n□o □S□ □□□□□□□, □otal □oli□or□ □ □olilert □S□ □□□□ □□□□, □. □oli. □ □olilert □S□ □□□□ □□□□, H□□ □ □our □late □S□ □□□□□□, Fecal □oli□or□ □ □F □ □F□ □S□ □□□□□□□

Wastewater/Non-Potable Water □<u>Inor□anic □ara□eters</u>□ □olor, pH, □on□uctivity, □ci□ity, □l□alinity, □hlori□e, □otal □esi□ual □hlorine, Fluori□e, □otal Har□ness, Silica, Sul□ate, Sul□i□e, □□ □onia, □□el□ahl □itro□en, □itrate, □itrite, □□ □hosphate, □otal □hosphorus, □lu□inu□, □nti□ony, □rsenic, □ariu□, □erylliu□, □oron, □a□□iu□, □alciu□, □hro□iu□, He□avalent □hro□iu□, □o□alt, □opper, Iron, □ea□, □a□nesiu□, □an□anese, □ercury, □oly□□enu□, □ic□el, □otassiu□, Seleniu□, Silver, So□iu□, Strontiu□, □halliu□, □in, □itaniu□, □ana□iu□, □inc, □otal □esi□ue □Soli□s□, □otal □issolve□ Soli□s, □otal Suspen□e□ Soli□s □non□iltera□le□, □□□□, □□□□□, □□□□, □□□□, □otal □yani□e, □henolics, Foa□in□ □□ents □□ □□S□, □ro□i□e, □il an□ □rease. <u>□r□anic □ara□eters</u>□ □□□s, □r□anochlorine □estici□es, □echnical □hlor□ane, □o□aphene, □,□□□, □,□,□□□, □,□,□□□□□Silve□□, □ci□ □□tracta□les □□henols□, □en□i□ines, □hthalate □sters, □itrosa□ines, □itroaro□atics & Isophorone, □olynuclear □ro□atic Hy□rocar□ons, Haloethers, □hlorinate□ Hy□rocar□ons, □olatile □r□anics, □□H □H□□ □S□□□, □□tracta□le □etroleu□ Hy□rocar□ons □□□□H□, □ □□□□H, □ □□□□H. <u>□icro□iolo□y □ara□eters</u>□ □otal □oli□or□ □ □F □ □n□o □S□ □□□□□□□, □otal □oli□or□ □ □□F □S□ □□□□□□□, H□□ □ □our □late □S□ □□□□□□□, Fecal □oli□or□ □ □F □ □F□ □S□ □□□□□□□, Fecal □oli□or□ □ □□□ □roth □S□ □□□□□□□.□

Solid Waste/Soil □<u>Inor□anic □ara□eters</u>□pH, Sul□i□e, □lu□inu□, □nti□ony, □rsenic, □ariu□, □erylliu□, □oron, □a□□iu□, □alciu□, □hro□iu□, He□avalent □hro□iu□, □o□alt, □opper, Iron, □ea□, □a□nesiu□, □an□anese, □ercury, □oly□□enu□, □ic□el, □otassiu□, Seleniu□, Silver, So□iu□, □halliu□, □in, □ana□iu□, □inc, □otal □yani□e, I□nita□ility, □henolics, □orrosivity, □□□□ □each □□□□□□, S□□□ □each □□□□□ □etals only□, □eactivity. <u>□r□anic □ara□eters</u>□□□□s, □□□s in □il, □r□anochlorine □estici□es, □echnical □hlor□ane, □o□aphene, □□tracta□le □etroleu□ Hy□rocar□ons □□□□H□, □ □□□□H, □ □□□□H, □ica□ □a, □,□□□, □,□,□□□, □,□,□□□□□Silve□□, □olatile □r□anics, □ci□ □□tracta□les □□henols□, □.□□□ichloro□en□i□ine, □hthalates, □itrosa□ines, □itroaro□atics & □yclic □etones, □□Hs, Haloethers, □hlorinate□ Hy□rocar□ons. □

Maine Department of Human Services <u>□erti□icate□□a□ I□</u>□□□□□□□□□.
Drinking Water □<u>Inor□anic □ara□eters</u>□S□ □□□□□□, □□□□□□, □□□□□□, □□□ □□□.□, □□□.□, S□ □□□□□□, □□□□□□, □□□□□□, □□□□□□I□ □, □□□□□□□□□, □□□□□□□□□, □□□□F□□, □□□□H□□, □□□□□□□□F, □□□ □□□.□, □□□ □□□.□, □□□.□, □□□ □□□.□. <u>□r□anic □ara□eters</u>□□□□.□, □□□.□.□

Wastewater/Non-Potable Water □<u>Inor□anic □ara□eters</u>□ □□□ □□□.□, □□□□□□, □□□.□, □□□.□, □□□.□, □□□.□, □□□.□, S□ □□□□□□, □□□□□□, □□□□□□, □□□□□□, □□□□□, □□□□□□I□□, □□□□□□I□□, □□□□□□□□□, □□□□□□□□□, □□□□F□□, □□□□F□□, □□□□H□□, □□□□□or□□□, □□□□□or□□□, □□□□□H□□□, □□□□□H□□□, □□□□□H□H, □□□□□□□F, □□□□□□□□, □□□□□□□□, □□□□□□, □□□□□□, □□□□□□, □□□□□□, □□□□□□, □□□□□□, □□□□□□, □□□□□□, □□□□□□, □□□ □□□.□, □□□□□, □□□.□, □□□□□, □□□.□, □□□□□, □□□□□, □□□□□□, □nterolert, □□□□□□, □□□□□□. <u>□r□anic □ara□eters</u>□□□□□, □□□□□, □□□□□, □□□□□, □□□□□□, □□□□, □□□□□, □□□□□□, □□□□□□, □□□□□□, □ □□ □□□, □ □□□□□, □ □□□□H, □ □□□□H.□

Solid Waste/Soil □<u>Inor□anic □ara□eters</u>□ □□□□□□, □□□□□□, □□□□□□, □□□□□□, □□□□□□, □□□□□□, □□□□□□, □□□□□□, □□□□□□, □□□□□, □□□□□, □□□□□, □□□□□, □□□□□, □□□□□□, □□□□□□. <u>□r□anic □ara□eters</u>□□ □□□□□, □ □□□□□, □ □□□□H, □ □□□□H, □□□□□□, □□□□□□, □□□□□, □□□□□□, □□□□□□, □□□□□, □□□□□□, □□□□□, □□□□□□, □□□□□□, □□□□□□, □□□□□.□

Massachusetts Department of Environmental Protection <u>□erti□icate□□a□ I□</u>□□ □□ □□□□.
Drinking Water (<u>Inor□anic □ara□eters</u>□ □□□□ □□□.□ □or□ S□,□s,□a,□e,□□,□r,□u,□□,□i,Se,□I□ □□□□ □□□.□ □or□ □a,□e,□a,□□,□r,□u,□a,□i□ □□□.□, □□□□.□ □or□ □itrate□□, Fluori□e, Sul□ate□□ □□□□ □□□.□ □or□ □itrate□□, □itrite□□□ □S□ □□□□□□□□F □or□ □itrate□□ an□ □itrite□□ □□□□□F□□, □□□□□□□□□, □□□ □□□.□, S□ □□□□□□, S□ □□□□□□I□□, □□□□□□, S□ □□□□□□, S□ □□□□H□□. <u>□r□anic □ara□eters</u>□□□□□ □□□.□ □or□ □rihalo□ethanes, □olatile □r□anics□□ □□□□.□ □or□ □,□□ □i□ro□oethane, □,□□□i□ro□o□□□hloropropane□, □□□ □□□. <u>□icro□iolo□y □ara□eters</u>□ S□ □□□□□□□□□□. S□□. S□ □□□□□ □olilert□□ □ S□ □□□□□□□□ F□S□ □□□□□.□

Non-Potable Water (<u>Inor□anic □ara□eters</u>□, □□□□ □□□.□ □or□ □I,S□,□s,□e,□□,□r,□u,□□,□n,□i,Se,□□,□I,□n□□□□□ □□□.□ □or□ □I,S□,□s,□e,□□,□a,□r,□o,□u,Fe,□□,□ □,□n,□o,□i,□,Se,□□,□a,Sr,□i,□I, □,□n□ □□□.□, S□ □□□□H,□, □□□ □□□.□,

SM2510B, 2540C, 2340B, 2320B, 4500CL-E, 4500 F-BC, 426C, SM 4500 NH3-H, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM 14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D. Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics),(608 for: Chlordane, Aldrin, Dieldrin, DDD, DDE, DDT, Heptachlor, Heptachlor Epoxide, PCBs-Water), (EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables), 600/4-81-045-PCB-Oil. Microbiology Parameters: Colilert-SM 9223 B; Enterolert-QT: SM9222D-MF.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM 9222B, 9223B, 9215B, EPA 200.7, 200.8, 245.2, 300.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 332.0. Organic Parameters: 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters:SM9222D, 9221B, 9222B, 9221E-EC, EPA 3005A, 200.7, 200.8, 245.1, 245.2, SW-846 6010B, 6020, 7196A, 7470A, SM3500-CR D, EPA 120.1, 300.0, 350.1, 350.2, 351.1, 353.2, 410.4, 420.1, 1664A, SW-846 9010, 9030, 9040B, SM426C, SM2120B, 2310B, 2320B, 2540B, 2540D, 4500H+B, 4500CL-E, 4500CN-E, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500P-E, 4500-S2-D, 5210B, 5220D, [illegible], 2540C, 4500F-BC, 5310C, 5540C, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D. Organic Parameters: SW-846 3510C, 3630C, 5030B, 8260B, 8270C, 8330, EPA 624, 625, 608, SW-846 8082, 8081A, 8151A.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010B, 7196A, 7471A, 1010, 1030, 9010, 9012A, 9014, 9030B, 9040B, 9045C, 9050C, 9065, 1311, 1312, 3005A, 3050B. Organic Parameters: SW-846 3540C, 3546, 3550B, 3580A, 3630C, 5030B, 5035, 8260B, 8270C, 8330, 8151A, 8015B, 8082, 8081A.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500CN-CE, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 200.8, 245.2, 2540C, SM2120B, 2320B, 2510B, 5310C, SM4500H-B. Organic Parameters: EPA 332, 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500Cl-E, EPA 300.0, SM2120B, SM4500F-BC, EPA 200.7, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM510ABC, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM 15 426C, 9222D, 9221B, 9221C, 9221E, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500S D, EPA 350.1, 350.2, SW-846 1312, 6020, 6020A, 7470A, 5540C, 4500H-B, EPA 200.8, SM3500Cr-D, 4500CN-CE, EPA 245.1, 245.2, SW-846 9040B, 3005A, 3015, EPA 6010B, 6010C, 7196A, 3060A, SW-846 9010B, 9030B. Organic Parameters: SW-846 8260B, 8270C, 8270D, 8270 (SIM), 8270 (SIM), 3510C, EPA 608, 624, 625, SW-846 3630C, 5030B, 8081A, 8081B, 8082, 8082A, 8151A, 8330, NJ OQA-QAM-025 Rev.7, NJ EPH.)

Solid & Chemical Materials (Inorganic Parameters: SW-846, 6010B, 6010C, 7196A, 3060A, 9010B, 9030B, 1010, 1030, 1311, 1312, 3005A, 3050B, 7471A, 7471B, 9014, 9012A, 9040B, 9045C, 9050A, 9065. Organic Parameters: SW-846 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 8260B, 8270C, 8270D, 8270 (SIM), 8270 (SIM), 3540C, 3545, 3546, 3550B, 3580A, 3630C, 5030B, 5035L, 5035H, NJ OQA-QAM-025 Rev.7, NJ EPH.)

New York Department of Health Certificate/Lab ID: 11148. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500H-B, 4500NO3-F, 2540C, SM 2510B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, 5310C, EPA 410.4, SM5220D, 2310B-a, 2320B, EPA 200.7, 300.0, SM4500CL-E, 4500F-C, SM15 426C, EPA 350.1, SM 4500 NH3-H, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, LACHAT 10-107-04-1-C, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6020, EPA 7196A, SM3500Cr-D, EPA 245.1, 245.2, 7470A, SM2120B, LACHAT 10-204-00-1-A, EPA 9040B, SM 4500 H-B, EPA 1664A, EPA 420.1, SM 14 510C, EPA 120.1, SM2510B, SM 4500 S-D, SM5540C, EPA 3005A, 9010B, 9030B.. Organic Parameters: EPA 624, 8260B, 8270C, 625, 608, 8081A, 8151A, 8330, 8082, EPA 3510C, 5030B.)

Solid & Hazardous Waste (Inorganic Parameters: 1010, 1030, EPA 6010B, 7196A, 7471A, 9012A, 9014, 9040B, 9045C, 9065, 9050, EPA 1311, 1312, 3005A, 3050B, 9010B, 9030B. Organic Parameters: EPA 8260B, 8270C, 8015B, 8081A, 8151A, 8330, 8082, 3540C, 3545, 3546, 3580, 5030B, 5035.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID: 666. Organic Parameters: MA-EPH, MA-VPH.

Drinking Water Program Certificate/Lab ID: 25700. (Inorganic Parameters: Chloride EPA 300.0. Organic Parameters: 524.2)

Pennsylvania Department of Environmental Protection Certificate/Lab ID: 68-03671. ***NELAP Accredited.***
Drinking Water (Organic Parameters: EPA 524.2, 504.1)

Non-Potable Water (Inorganic Parameters: EPA 1312, 200.7, 410.4, 1664A, SM2540D, 5210B, 5220D, 4500-P,BE. Organic Parameters: EPA 3510C, 3005A, 3630C, 5030B, 625, 624, 608, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Solid & Hazardous Waste (Inorganic Parameters: EPA 350.1, 1010, 1030, 1311, 1312, 3050B, 6010B, 7196A, 7471A, 9010B, 9012A, 9014, 9040B, 9045C, 9050, 9065, S□ 4500 □H3□H. Organic Parameters: 3540C, 3545, 3546, 3550B, 3580A, 3630C, 5035, 8015B, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Rhode Island Department of Health Certificate/Lab ID: □□□000□□. ***NELAP Accredited via NY-DOH.***
Refer to MA □DEP Certificate for Potable and Non-Potable Water.
Refer to NJ□DEP Certificate for Potable and Non-Potable Water.

Texas Commisson on Environmental Quality Certificate/Lab ID: T104704476-09-1. ***NELAP Accredited.***
Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, □7□.2, 410.□, □2□.1, 6010, 6020, 7196, □470, □□40, S□ 2□□□B, 23□0□, 2320B, 2510B, □□40B, 2□□0□, 254□□, 426C, 4500CL-E, 4500CN-E, 4500 F-□, 4500 H+□, 4500 □H3□H, 4500NO2B, 4500P-E, 4500 S^{2-}□, 510C, 5210B, 5220D, 5310C, 5540C. Organic Parameters: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Department of Defense Certificate/Lab ID: L2217.
Drinking Water (Inorganic Parameters: S□ 4500 H-□. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6020, 245.1, 245.2, 7470A, 9040B, 300.0, 332.0, 6860, 353.2, 410.4, 9060, 1664A, S□ 4500CN-E, 4500 H-□, 4500NO3 □F, 5220D, 5310C, 2320B, 2540C, 3005A, 3015, 9010B, 9056. Organic Parameters: EPA 8260B, 8270C, 8330A, 625, 8082, 8081A, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010B, 7471A, 9010, 9012A, 6860, 1311, 1312, 3050B, 7196A, 9010B, 3500-CR-D, 4500CN-CE, 2540G, Organic Parameters: EPA 8260B, 8270C, 8330 □/ □prep, 8082, 8081A, 3540C, 3546, 3580A, 5035A, MassDEP EPH, MassDEP VPH.)

The following analytes are not included in our current NELAP/TNI Scope of Accreditation:
EPA 8260B: Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methylnapthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine (Azobenzene) **EPA 625:** 4-Chloroaniline, 4-Methylphenol. Total Phosphorus in a soil matrix, Chloride in a soil matrix, TKN in a soil matrix, NO2 in a soil matrix, NO3 in a soil matrix, SO4 in a soil matrix.

L1114745

CHAIN OF CUSTODY PAGE 4 OF 4

Date Rec'd in Lab: 8/18/11 ALPHA Job #: L1114745 4 9117

ALPHA LABORATORIES
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Client Information
Client: ESS GROUP, Inc.
Address: 888 Worcester St, Ste 240
Wellesley MA 02482
Phone: 781 489-1114
Fax:
Email: jwiggin@essgroup.com
☐ These samples have been previously analyzed by Alpha

Project Information
Project Name: Burgess Biopower
Project Location: Berlin, NH
Project #: B408-000
Project Manager: Jason Wiggin
ALPHA Quote #:

Turn-Around Time
☒ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: 8/25/11 Time: 9/22/11

Report Information - Data Deliverables
☐ FAX ☒ EMAIL
☒ ADEx ☐ Add'l Deliverables

Billing Information
☐ Same as Client info PO #:
Barbara Cabral (E. Providence)

Regulatory Requirements/Report Limits
State /Fed Program EPA NPDES Criteria NPDES RGP

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTO
☐ Yes ☒ No Are MCP Analytical Methods Required?
☐ Yes ☒ No Is Matrix Spike (MS) Required on this SDG? (If yes see note in Comments)
☐ Yes ☒ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:
If MS is required, indicate in Sample Specific Comments which samples and what tests MS to be performed.
(Note: All *CAM* methods for inorganic analyses require MS every 20 soil samples)
NPDES RGP Parameters

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

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TSS	TRC	TCN	Cl	Metals	Hex Cr	TPH	624	EDB (504)	8270	PCB	TPhenol	Sample Specific Comments	TOTAL # BOTTLES
12247-25	MW-370W	8/18/11	0915	GW	MF	X	X	X	X	X	X	X	X	X	X	X	X		
10745 1																			

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

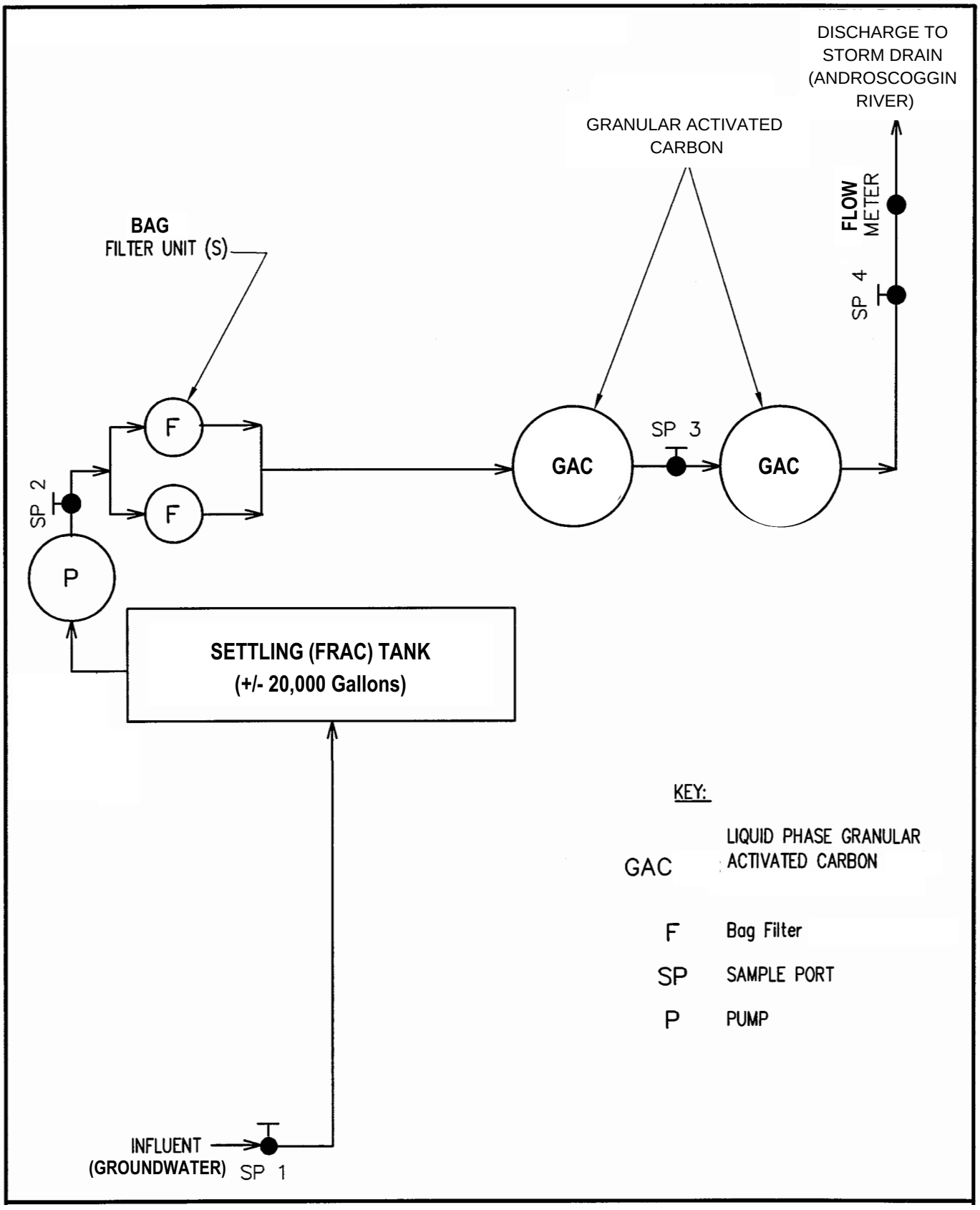
PLEASE ANSWER QUESTIONS ABOVE!
IS YOUR PROJECT MA MCP or CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
	8/18/11 1010		8/18/11 1045
	8/18/11 1745		8/18/11 1745

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 Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 18-Jan-2010)

BURGESS BIOPOWER
CONSTRUCTION DEWATERING
TREATMENT FLOW DIAGRAM



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United States Department of the Interior

FISH AND WILDLIFE SERVICE
New England Field Office
70 Commercial Street, Suite 300
Concord, New Hampshire 03301-5087
http://www.fws.gov/northeast/newenglandfieldoffice

January 2, 2009

To Whom It May Concern:

This project was reviewed for the presence of federally-listed or proposed, threatened or endangered species or critical habitat per instructions provided on the U.S. Fish and Wildlife Service's New England Field Office website:

(http://www.fws.gov/northeast/newenglandfieldoffice/EndangeredSpec-Consultation.htm)

Based on the information currently available, no federally-listed or proposed, threatened or endangered species or critical habitat under the jurisdiction of the U.S. Fish and Wildlife Service (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 the 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.

Thank you for your cooperation. Please contact Mr. Anthony Tur at 603-223-2541 if we can be of further assistance.

Sincerely yours,

Thomas R. Chapman
Supervisor
New England Field Office

NEW HAMPSHIRE DIVISION OF HISTORICAL RESOURCES
State of New Hampshire, Department of Cultural Resources
19 Pillsbury Street, Concord, NH 03301-3570
TDD Access: Relay NH 1-800-735-2964
www.nh.gov/nhdhr
603-271-3483
603-271-3558
FAX 603-271-3433
preservation@dcr.nh.gov

July 23, 2010

Michael J. Iacopino
Brennan Caron Lenehan & Iacopino
85 Brook Street
Manchester, NH 03104

Re: Application of Laidlaw Berlin BioPower, LLC
Site Evaluation Committee No. 2009-02
Final Report

Dear Mr. Iacopino:

Thank you for the opportunity to provide a final report on the Laidlaw Berlin BioPower application for the construction and operation of a 70 MW biomass fuel energy generating facility in Berlin, Coos County, NH. The New Hampshire Division of Historical Resources (DHR) has a responsibility to review the project under RSA 227 C:9 as well as under Section 106 of the National Historic Preservation Act (NHPA). Section 106 of the National Historic Preservation Act (NHPA) requires consideration of historic preservation in the multitude of Federal actions that take place nationwide. Section 106 requires Federal agencies to consider the effects of their actions on historic properties and provide the Advisory Council on Historic Preservation (ACHP) an opportunity to comment on Federal projects prior to implementation. The US EPA has been designated the Lead Federal Agency for this undertaking.

DHR worked with the project applicant who initiated review and provided a Project Area Form and Effects Assessment for the project. No archaeological studies were required. The Project Area Form identified the remaining buildings on the project site that are fifty years or older as well as surrounding neighborhoods that are in the view shed of the project. The Project Area Form concluded that none of the remaining buildings met eligibility for listing in the National Register of Historic Places and the former paper mill site no longer retained integrity for listing as a historic district. Neighborhoods discussed included the Lower East Side, Napert Village and Liberty Park. In addition, the DHR notes that the Downtown Berlin Historic District also exists within the viewshed of the project.

Section 106 requires the Lead Federal Agency to seek information, as appropriate, from consulting parties, and other individuals and organizations likely to have knowledge of, or concerns with, historic properties in the area, and to identify issues relating to the undertaking's potential effects on historic properties. DHR understands that consultants for Laidlaw BioPower have provided information to the public on behalf of the EPA regarding the consulting party process. To date, no organization has applied for consulting party status.

The Laidlaw Berlin BioPower facility will utilize the existing boiler house and smokestack of the previous paper mill with new construction appended to these features. The boiler house was constructed in the 1990s and is not considered historic. When constructed, it introduced a modern element out of keeping with the surrounding residential neighborhoods and was part of a much larger industrial landscape that is no longer intact. Based on a review of the photo simulations, field visit, and consultant recommendations, the DHR concludes that the proposed Laidlaw Berlin BioPower facility will present no new or additional visual effects to surrounding historic neighborhoods. Therefore, under state and federal regulations, the DHR concurs with the ***No Adverse Effect*** finding. No mitigation measures are required. If there are any changes in approved plans and specifications, or the need for additional work is identified, the proposed changes and/or work modifications are to be submitted to the DHR for review.

Thank you for the opportunity to comment.

Sincerely,

Nadine Peterson
Preservation Planner

cc: EPA
Jane Murray
Laidlaw BioPower
Elizabeth Durfee Hengen