



MEMORANDUM

TO: JERRY PUCILLO
FROM: RONALD BURNS
SUBJECT: NPDES PERMITS FOR CUSHING VILLAGE
DATE: AUGUST 12, 2014
CC: C. STARR

The dewatering activities needed for the construction of the proposed Cushing Village development will be conducted under a National Pollutant Discharge Elimination System (NPDES) Remediation General Permit (RGP). The dewatering activities are being permitted via an RGP instead of a Construction General Permit (administered by MassDEP) due to the presence of contaminants in the groundwater at the site. A Notice of Intent is being prepared for the RGP and will be submitted to the U.S. Environmental Protection Agency.

Based on correspondence with the EPA, construction work proposed prior to approval of the Notice of Intent for Cushing Village can be conducted under the existing RGP for the Common Street Trust Property at 102-104 Trapelo Road. This can be done until such time as the new RGP for Cushing Village has been approved and Notice of Termination is issued for the RGP for 102-104 Trapelo Road. Attached is a copy of the NOI, and the last Notice of Change for the RGP 102-104 Trapelo Road. The permit was most recently recertified in January, 2012.

Attachments:

- *January 4, 2011 EPA discharge authorization- 102-104 Trapelo Rd.*
- *RGP-NOC Submitted on April 28, 2014, 102-104 Trapelo Rd.*



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 1

**5 Post Office Square, Suite 100
BOSTON, MA 02109-3912**

CERTIFIED MAIL

January 4, 2011

Ronald K. Burns
Division Manager
Coler and Colantonio, Inc.
101 Accord Park Drive
Norwell, MA 02061

Re: Authorization to discharge under the Remediation General Permit (RGP) – 910000.
Common Street Trust Property site located at 102-104 Trapelo Road, Belmont, MA
02478, Middlesex County, Authorization # MAG910403- Reissuance

Dear Mr. Burns:

Based on the review of a Notice of Intent (NOI) submitted by the firm Coler & Colantonio, 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 for which you are required to monitor. Additionally, indicated on the check list are the effluent limits, test methods and minimum levels (MLs) for each pollutant. This list 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 that the list of pollutants indicated above does not include total residual chlorine (TRC), 1,2-Dibromoethane (EDB), and 1,1-Dichloromethane (DCA), as these pollutants were not present in the influent and effluent discharge records submitted with the NOI and also in response to your request for their deletion in the Notice of Change (NOC) and Appendix D data with your submittal.

Please note that the metals copper, lead, nickel, selenium, zinc and trivalent chromium (III) are dilution dependent and subject to limitations based on a dilution factor range (DFR). For each parameter the dilution factor of 415 for this site is greater than the


allowable DFR established in the RGP. (See the RGP Appendix IV for Massachusetts facilities.) Therefore, the ceiling value limits for copper of 2,070 ug/L, lead of 430 ug/L, nickel of 2,380 ug/L, selenium of 408 ug/L, zinc of 1,480 ug/L and trivalent chromium (III) of 1,710 ug/L are required for compliance at this site.

In addition, 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 requirements.

This general permit and authorization to discharge will expire on September 9, 2015. You reported that this project will be completed on December 31, 2012. If for any reason the discharge terminates sooner 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,



Thelma Murphy, Acting Chief
Municipal Permits Branch

Enclosure

cc: Kathleen Keohane, MassDEP
Glenn A. Cote, Coler & Colantonio, Inc.

**2010 Remediation General Permit
Summary of Monitoring Parameters¹¹**

NPDES Permit Number:	MAG910403
Date Permit Issued:	December, 2010
Facility/Site Name:	Common Street Trust Property located at 102-104 Trapelo Rd.
Facility/Site Address:	Belmont, MA 02478, Middlesex County
	Email address of owner: chrisstarr123@gmail.com; Phone n:978-2631086
Legal Name of operator:	Contractor: Coler & Colantonio
Operator contact name, title, and Address:	Ronald K. Burns, LSP, Manager Environmental Services, 101 Accord Park Drive, Norwell, MA 02061
	Email rburns@col-col.com
Estimated Date of Completion:	December 31, 2012
Category and Sub-Category:	Category II- Non Petroleum Site Remediation, Subcategory B, VOC Sites with Additional Contamination.
Receiving Water:	Wellington Brook

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

	<u>Parameter</u>	<u>Effluent Limit/Method#/ML</u> (All Effluent Limits are shown as Daily Maximum Limit, unless denoted by a **, in that case it will be a Monthly Average Limit)
	1. Total Suspended Solids (TSS)	30 milligrams/liter (mg/L) **, 50 mg/L for hydrostatic testing **, Me#60.2/ML 5ug/L
	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/ML 5.0mg/L
✓	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
	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

	<u>Parameter</u>	<u>Effluent Limit/Method# /ML</u> (All Effluent Limits are shown as Daily Maximum Limit, unless denoted by a **, in that case it will be a Monthly Average Limit)
	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
V	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 2 ug/L/ Me# 420.4 /ML 50ug/L
	32. Pentachlorophenol (PCP)	1.0 ug/L /Me#8270D/ML5ug/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/ML 5ug/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& 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

	<u>Parameter</u>	<u>Effluent Limit/Method# /ML</u> (All Effluent Limits are shown as Daily Maximum Limit, unless denoted by a **, in that case it will be a Monthly Average Limit)
	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	X/Me#8270D/ML 5ug/L, Me#610/ML 5ug/L & Me#625/ML 5ug/L
	i. Acenaphthylene	X/Me#8270D/ML 5ug/L, Me#610/ML 5ug/L & Me#625/ML 5ug/L
	j. Anthracene	X/Me#8270D/ML 5ug/L, Me#610/ML 5ug/L & Me#625/ML 5ug/L
	k. Benzo(ghi) Perylene	X/Me#8270D/ML 5ug/L, Me#610/ML 5ug/L & Me#625/ML 5ug/L
	l. Fluoranthene	X/Me#8270D/ML 5ug/L, Me#610/ML 5ug/L & Me#625/ML 5ug/L
	m. Fluorene	X/Me#8270D/ML 5ug/L, Me#610/ML 5ug/L & Me#625/ML 5ug/L
	n. Naphthalene ⁵	20 ug/l / Me#8270/ML 5ug/L, Me#610/ML 5ug/L & Me#625/ML 5ug/L
	o. Phenanthrene	X/Me#8270D/ML 5ug/L, Me#610/ML 5ug/L & Me#625/ML 5ug/L
	p. Pyrene	X/Me#8270D/ML 5ug/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 0.5 ug/L
✓	38. Chloride	Monitor only/Me# 300.0/ ML 0.1ug/L

	<u>Metal parameter</u>	<u>Total Recoverable Metal Limit @ H¹⁰ = 50 mg/l CaCO₃ for discharges in Massachusetts (ug/l)</u> <u>11</u>	
		<u>Freshwater</u>	<u>Saltwater</u>
	39. Antimony	5.6/10mL	
	40. Arsenic **	10/20mL	36/20mL
	41. Cadmium **	0.2/10ml	8.9/10mL
✓	42. Chromium III (trivalent) **	1,710/15mL	100/15mL
	43. Chromium VI (hexavalent) **	11.4/10mL	50.3/10mL

	Metal parameter	Total Recoverable Metal Limit @ H¹⁰ = 50 mg/l CaCO₃ for discharges in Massachusetts (ug/l) 11	
		Freshwater	Saltwater
✓	44. Copper **	2,070/15mL	3.7/15mL
✓	45. Lead **	430/20mL	8.5/20mL
	46. Mercury **	0.9/0.2mL	1.1/0.2mL
✓	47. Nickel **	2,380/20mL	8.2/20mL
✓	48. Selenium **	408/20mL	71/20mL
	49. Silver	1.2/10mL	2.2/10mL
✓	50. Zinc **	1,480/15mL	85.6/15mL
	51. Iron	1,000/20mL	

	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

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 "Orochlor 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 $DF \times 1,000 \text{ug/L}$ (the iron base limit). Therefore DF is 1.5, the iron limit will be 1,500 ug/L; DF 2, then iron limit = $1,000 \times 2 = 2,000 \text{ug/L}$, 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

Cote, Glen

From: alvarez.victor@epamail.epa.gov
Sent: Wednesday, February 23, 2011 5:31 PM
To: Cote, Glen
Subject: Re: BMP Annual Cert and RGP Recert & NOC Reports - RGP# MAG910403

February 23, 2011

Dear Mr. Cote :

RE: Remediation General Permit Recertification and Notice of Change Authorization # MAG910403

This is a response of a Notice of Change you submitted with the Annual Certification and a revised NOI for the subject site on February 1, 2011. In light of your request we would like to inform you that this office has made the following changes to your permit monitoring requirements:

1. We have eliminated from the permit list the metals Copper, lead nickel, selenium and zinc as these were found below the Appendix III criteria limits and in some cases below the Minimum levels required to be abstained by the methodology used to be tested. Therefore, the metals indicated above need not to be monitored for the next six months from the time of the permit reissuance which is was done on the month of December 2010.
2. After further review of the NOI, We detected that this office made an error by not including iron in the list of monitoring requirements as it was reported in excess of the 1,000 ug/L required in RGP. Therefore, iron limit has been included and needs to be monitored during future months concurrently with the existing pollutants issued with the modified permit list. Please see attached list. Thanks.

Victor,

Victor Alvarez
Environmental Engineer
US EPA - NE Region I
Mail Code GEP 06-4
Boston, MA 02109-3912
NPDES Section, RGP Lead
Tel: 617-918-1572
Fax: 617-918-0572
web: alvarez.victor@epa.gov

2010 Remediation General Permit
Summary of Monitoring Parameters[1]

NPDES Permit Number:	MAG910403
Date Permit Issued:	December, 2010

Facility/Site Name:	Common Street Trust Property located at 102-104 Trapelo Rd.		
Facility/Site Address:	Belmont, MA 02478, Middlesex County		
	Email address of owner: chrisstarr123@gmail.com; Phone n:978-2631086		
Legal Name of operator:		Contractor: Coler & Colantonio	
Operator contact name, title, and Address:		Ronald K. Burns, LSP, Manager Environmental Services, 101 Accord Park Drive, Norwell, MA 02061	
		Email rbunrs@col-col.com	
Estimated Date of Completion:			December 31, 2012
Category and Sub-Category:		Category II- Non Petroleum Site Remediation, Subcategory B, VOC Sites with Additional Contamination.	
Receiving Water:		Wellington Brook	

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

Parameter	Effluent Limit/Method#/ML
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(All Effluent Limits are shown as Daily Maximum Limit, unless denoted by a **, in that case it will be a Monthly Average Limit)

1. Total Suspended Solids (TSS)	30 milligrams/liter (mg/L) **, 50 mg/L for hydrostatic testing **, Me#60.2/ML 5ug/L
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/ML 5.0mg/L
✓ 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
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	5.0 ug/L /Me#8260C/ ML 5ug/L

VOCs - 624

(p-DCB)	
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 2 ug/L/ Me# 420.4 /ML 50ug/L
32. Pentachlorophenol (PCP)	1.0 ug/L /Me#8270D/ML5ug/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/ML 5ug/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 & 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	X/Me#8270D/ML 5ug/L, Me#610/ML 5ug/L & Me#625/ML 5ug/L
i. Acenaphthylene	X/Me#8270D/ML 5ug/L, Me#610/ML 5ug/L & Me#625/ML 5ug/L
j. Anthracene	X/Me#8270D/ML 5ug/L, Me#610/ML 5ug/L & Me#625/ML 5ug/L
k. Benzo(ghi) Perylene	X/Me#8270D/ML 5ug/L, Me#610/ML 5ug/L & Me#625/ML 5ug/L
l. Fluoranthene	X/Me#8270D/ML 5ug/L, Me#610/ML 5ug/L & Me#625/ML 5ug/L
m. Fluorene	X/Me#8270D/ML 5ug/L, Me#610/ML 5ug/L & Me#625/ML 5ug/L
n. Naphthalene 5	20 ug/l / Me#8270/ML 5ug/L, Me#610/ML 5ug/L & Me#625/ML 5ug/L
o. Phenanthrene	X/Me#8270D/ML 5ug/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 0.5 ug/L
✓	38. Chloride	Monitor only/Me# 300.0/ ML 0.1ug/L

Metal parameter	Total Recoverable Metal Limit @ H 10= 50 mg/l CaCO3 for discharges in Massachusetts (ug/l) 11	
	Freshwater	Saltwater
39. Antimony	5.6/10mL	
40. Arsenic **	10/20mL	36/20mL
41. Cadmium **	0.2/10mL	8.9/10mL
42. Chromium III (trivalent) **	/15mL	100/15mL
43. Chromium VI (hexavalent) **	11.4/10mL	50.3/10mL
44. Copper **	/15mL	3.7/15mL
45. Lead **	/20mL	8.5/20mL
46. Mercury **	0.9/0.2mL	1.1/0.2mL
47. Nickel **	/20mL	8.2/20mL
48. Selenium **	/20mL	71/20mL
49. Silver	1.2/10mL	2.2/10mL
50. Zinc **	/15mL	85.6/15mL
✓ 51. Iron	5,000/20mL	

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/Grab13
57. Daily maximum temperature - Warm water fisheries	83°F; 1/Month/Grab14
58. Daily maximum temperature - Cold water fisheries	68°F; 1/Month/Grab14
59. Maximum Change in Temperature in MA - Any Class A water body	1.5°F; 1/Month/Grab14
60. Maximum Change in Temperature in MA - Any Class B water body- Warm Water	5°F; 1/Month/Grab14
61. Maximum Change in Temperature in MA - Any Class B water body - Cold water and Lakes/Ponds	3°F; 1/Month/Grab14
62. Maximum Change in Temperature in MA - Any Class SA water body - Coastal	1.5°F; 1/Month/Grab14
63. Maximum Change in Temperature in MA - Any Class SB water body - July to September	1.5°F; 1/Month/Grab14
64. Maximum Change in Temperature in MA -Any Class SB water body - October to June	4°F; 1/Month/Grab14

B. Suggested Form for the Consolidated General Permit Notice of Change (NOC)

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

a) Name of facility/site: Common Street Trust Property		Facility/site address: 102-104 Trapelo Road			
Location of facility/site: longitude: 71.174938 latitude: 42.380484		Facility SIC code(s): 5812, 5531	Street: 102-104 Trapelo Road	State: MA	County: Middlesex
b) NPDES authorization number assigned by EPA: MAG910403		Town: Belmont	Zip: 02478		
c) Name of facility/site owner: Christopher Starr					
Owner is (check one): 1. Federal <input type="radio"/> 2. State/Tribal <input type="radio"/>		Telephone no. of facility/site owner: (978) 263-1086			
3. Private <input checked="" type="radio"/> 4. other <input type="radio"/> , if so, describe:		Fax no. of facility/site owner:			
Address of owner:		Email address of facility/site owner: chrisstarr123@gmail.com			
Street: 6 Littlefield Road		City/Town: Acton		Zip: 01720	
		State: MA		County: Middlesex	

d) Legal name of operator:		Operator telephone no. (781) 982-5400	
Contractor: CHA Consulting Inc. (Formerly Coler & Colantonio, Inc.)		Operator fax no.: (781) 982-5486	
		Operator email address: rburns@chacompanies.com	
Operator contact name and title:		Ronald K. Burns, LSP (Section Manager)	
Address of operator (if different from owner):		Street: 101 Accord Park Drive	
Town: Norwell	State: MA	Zip: 02061	County: Plymouth


2. Type of changes:

Please check all that apply:	Eligible changes for use of NOC:
<input type="checkbox"/>	1. Request for a reduction in monitoring requirements based on sampling and analytical data. Written approval by EPA is required.
<input type="checkbox"/>	a) For a reduction in influent monitoring frequency, the permittee must provide 6-12 consecutive months of influent monitoring data.
<input type="checkbox"/>	b) For a reduction in effluent monitoring frequency of an applicable parameter, the permittee must provide 12- 24 consecutive months of data demonstrating compliance with the parameter limits, the minimum level (ML) (see Part I.D.1.d), or demonstrating no toxicity (where whole effluent toxicity testing (WET) is required).
<input checked="" type="checkbox"/>	2. A change in flow conditions which may increase or decrease the daily average or maximum flow rate by more than twenty-five (25) percent, provided the design flow capacity of the treatment system is not exceeded and the dilution factor will not change to a value greater than five (5), where the discharge contains metals. asdf DESIGN CAPACITY: 70 GPM FLOW INCREASE REQUESTED: FROM 10 GPM TO 40 GPM

Please check all that apply:	Eligible changes for use of NOC:
<input type="checkbox"/>	3. A change in treatment which:
<input type="checkbox"/>	a) affects the design flow of the system but does not change the dilution factor to a value greater than five (5), where the discharge contains metals.
<input type="checkbox"/>	b) adds or removes any major operable unit of the system
<input type="checkbox"/>	4. The use of chemical treatment additives that will not add any pollutants which may cause a violation of receiving water standards or cause the overall effluent to violate effluent limitations. Attach the material safety data sheets (MSDS) and prior approval from the Director.
<input type="checkbox"/>	5. Change of discharge location within the same receiving water as submitted in the NOI.
<input type="checkbox"/>	6. Temporary cessation of discharge greater than 120 days. Describe (using additional sheets as needed):
<input type="checkbox"/>	a) reasons for the interruption or cessation of discharge
<input type="checkbox"/>	b) estimated time frame when the discharge will cease and be re-started:
<input type="checkbox"/>	c) how "start-up" monitoring will resume when the discharge is re-started
<input type="checkbox"/>	7. Change in pH range in MA:
<input type="checkbox"/>	8. Change to administrative information.
<input type="checkbox"/>	Change in ownership? Y <input type="checkbox"/> N <input type="checkbox"/>
<input type="checkbox"/>	If yes, what is date of ownership transfer (MM/DD/YYYY)? <input type="text"/> Is written agreement between the new and existing permittees containing a specific date for transfer of permit responsibility, coverage, and liability between them included? Y <input type="checkbox"/> N <input type="checkbox"/>

3. Signature requirements. The Notice of Change must be signed by the permittee 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:	Common Street Trust Property
Signature of permittee(s):	
Print Full Name and Title:	Ronald K. Burns, LSP (Section Manager)
Date:	April 28, 2014

CERTIFICATE OF ANALYSIS

CHA Consulting, Inc.
Attn: Mr. Ron Burns
101 Accord Park Drive
Norwell, MA 02061

Date Received: 4/21/14
Date Reported: 4/24/14
P.O. #: 25236
Work Order #: 1404-08463

DESCRIPTION: PROJECT# 25236 CUSHING VILLAGE

Subject sample(s) has/have been analyzed by our Warwick, R.I. laboratory with the attached results.

Reference: All parameters were analyzed by U.S. EPA and Massachusetts Contingency Plan (MCP) approved methodologies where applicable. The specific methodologies are listed in the methods column of the Certificate of Analysis.

Data qualifiers (if present) are explained in full at the end of a given sample's analytical results.

Certification #: RI LAI0033, MA M-RI015, CT PH-0508, ME RI00015
NH 2537, NY 11726

This Certificate represents all data associated with the referenced work order and is paginated for completeness. The complete Certificate includes one attachment; the original Chain of Custody.

If you have any questions regarding this work, or if we may be of further assistance, please contact our customer service department.

Approved by:



Data Reporting

enc: Chain of Custody

Work Order #: 1404-08463

MassDEP Analytical Protocol Certification Form		
Laboratory Name: R.I. Analytical Laboratories	Work Order #: 1404-08463	
Project / Location: PROJECT# 25236 CUSHING VILLAGE	RTN :	
This Form provides certifications for the following data set: list Laboratory Sample ID Number(s):		
1404-08463-001 through 1404-08463-002		

Matrices: Groundwater/Surface Water Soil / Sediment Drinking Water Air Other

CAM Protocol (check all that apply below):

8260 VOC CAM II A <input checked="" type="checkbox"/>	7470/7471 Hg CAM III B <input type="checkbox"/>	MassDEP VPH CAM IV A <input type="checkbox"/>	8081 Pesticides CAM V B <input type="checkbox"/>	7196 Hex Cr CAM VI B <input type="checkbox"/>	MassDEP APH CAM IX A <input type="checkbox"/>
8270 SVOC CAM II B <input type="checkbox"/>	7010 Metals CAM III C <input type="checkbox"/>	MassDEP EPH CAM IV B <input type="checkbox"/>	8151 Herbicides CAM V C <input type="checkbox"/>	8330 Explosives CAM VIII A <input type="checkbox"/>	TO-15 VOC CAM IX B <input type="checkbox"/>
6010 Metals CAM III A <input type="checkbox"/>	6020 Metals CAM III D <input type="checkbox"/>	8082 PCB CAM V A <input type="checkbox"/>	9014 Total Cyanide /PAC CAM VI A <input checked="" type="checkbox"/>	6860 Perchlorate CAM VIII B <input type="checkbox"/>	

Affirmative responses to Questions A through F are required for "Presumptive Certainty" status


A	Were all samples received in a condition consistent with those described on the Chain-of Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B	Were the analytical methods(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
E	a. VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s) ? (Refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Responses to Questions G,H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
<small>Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.</small>		
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No ¹

¹ All negative responses must be addressed in an attached laboratory narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, is accurate and complete.

Signature:  Position: QA/QC Director
 Printed Name: Eric H. Jensen Date: 4/23/14

Case Narrative

Date: 4/24/2014

CHA Consulting, Inc.
Attn: Mr. Ron Burns
101 Accord Park Drive
Norwell, MA 02061

Project: PROJECT# 25236 CUSHING VILLAGE

Work Order #: 1404-08463

The following exceptions were noted for this Work Order:

The methods requested for pH, and Chloride are not listed in the table of contents for compendium of MCP analytical methods. Therefore, there is no guideline for presumptive certainty.

Volatile Organics by 8260

Question I - Per the client's request, only a subset of the MCP analyte list for SW-846 Method 8260 Volatile Organic Analytes is reported.

There were no additional exceptions or analytical issues to discuss concerning the testing requirements for the project.

R.I. Analytical Laboratories, Inc.
CERTIFICATE OF ANALYSIS

CHA Consulting, Inc.

Date Received: 4/21/14

Work Order #: 1404-08463

PROJECT# 25236 CUSHING VILLAGE

Sample # 001

SAMPLE DESCRIPTION: INFLUENT**SAMPLE TYPE:** GRAB**SAMPLE DATE/TIME:** 4/21/2014 @ 15:15

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
pH	7.7		SU	SM 4500-H+ B	4/21/14 16:35	PTT
Chloride	420	5.0	mg/l	EPA 300.0	4/24/14 1:47	TAH
Total Cyanide	<0.01	0.01	mg/l	SM-4500CN-C E	4/22/14 8:45	JMM
Volatile Organic Compounds						
cis-1,2-Dichloroethene	190	1	ug/l	SW-846 8260C	4/22/14 16:15	KAC
trans-1,2-Dichloroethylene	<2	2	ug/l	SW-846 8260C	4/22/14 16:15	KAC
MTBE	<2	2	ug/l	SW-846 8260C	4/22/14 16:15	KAC
Tetrachloroethene	6900	100	ug/l	SW-846 8260C	4/23/14 12:48	KAC
Trichloroethene	130	1	ug/l	SW-846 8260C	4/22/14 16:15	KAC
Surrogates			RANGE	SW-846 8260C	4/22/14 16:15	KAC
Dibromofluoromethane	100		86-118%	SW-846 8260C	4/22/14 16:15	KAC
Toluene-d8	100		88-110%	SW-846 8260C	4/22/14 16:15	KAC
4-Bromofluorobenzene	97		86-115%	SW-846 8260C	4/22/14 16:15	KAC
1,2 Dichloroethane-d4	99		80-120%	SW-846 8260C	4/22/14 16:15	KAC
Total Metals						
Iron	11.9	0.050	mg/l	EPA 200.7	4/23/14 18:21	PJC
ICP Digestion				SW-846 3010A	4/23/14 11:45	JL

The pH analysis ideally should be performed in the field. The pH analysis was performed by the laboratory as soon as possible after receipt.

R.I. Analytical Laboratories, Inc.
CERTIFICATE OF ANALYSIS

CHA Consulting, Inc.

Date Received: 4/21/14

Work Order #: 1404-08463

PROJECT# 25236 CUSHING VILLAGE

Sample # 002

SAMPLE DESCRIPTION: EFFLUENT

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 4/21/2014 @ 15:30

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
pH	7.1		SU	SM 4500-H+ B	4/21/14 16:35	PTT
Chloride	550	5.0	mg/l	EPA 300.0	4/24/14 2:00	TAH
Total Cyanide	<0.01	0.01	mg/l	SM-4500CN-C E	4/22/14 8:45	JMM
Volatile Organic Compounds						
cis-1,2-Dichloroethene	<1	1	ug/l	SW-846 8260C	4/23/14 12:20	KAC
trans-1,2-Dichloroethylene	<2	2	ug/l	SW-846 8260C	4/23/14 12:20	KAC
MTBE	<2	2	ug/l	SW-846 8260C	4/23/14 12:20	KAC
Tetrachloroethene	<1	1	ug/l	SW-846 8260C	4/23/14 12:20	KAC
Trichloroethene	<1	1	ug/l	SW-846 8260C	4/23/14 12:20	KAC
Surrogates			RANGE	SW-846 8260C	4/23/14 12:20	KAC
Dibromofluoromethane	102		86-118%	SW-846 8260C	4/23/14 12:20	KAC
Toluene-d8	98		88-110%	SW-846 8260C	4/23/14 12:20	KAC
4-Bromofluorobenzene	100		86-115%	SW-846 8260C	4/23/14 12:20	KAC
1,2 Dichloroethane-d4	99		80-120%	SW-846 8260C	4/23/14 12:20	KAC
Total Metals						
Iron	0.429	0.050	mg/l	EPA 200.7	4/23/14 18:26	PJC
ICP Digestion				SW-846 3010A	4/23/14 11:45	JL

The pH analysis ideally should be performed in the field. The pH analysis was performed by the laboratory as soon as possible after receipt.

QA/QC Report

Client: CHA Consulting, Inc.

WO #: 1404-08463

Date: 4/24/2014

-Method Blanks Results-

Parameter	Units	Results	Date Analyzed
Chloride	mg/l	<5.0	4/21/2014
Total Cyanide	mg/l	<0.01	4/22/2014

Volatile Organics by Method 8260

cis-1,2-Dichloroethene	ug/l	<1	4/22/2014
trans-1,2-Dichloroethylene	ug/l	<2	4/22/2014
MTBE	ug/l	<2	4/22/2014
Tetrachloroethene	ug/l	<1	4/22/2014
Trichloroethene	ug/l	<1	4/22/2014

Surrogates

RANGE

Dibromofluoromethane	86-118%	102	4/22/2014
Toluene-d8	88-110%	100	4/22/2014
4-Bromofluorobenzene	86-115%	103	4/22/2014
1,2 Dichloroethane-d4	80-120%	103	4/22/2014

Metals

Iron	mg/l	<0.050	4/23/2014
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-LCS/LCS Duplicate Data Results-

Parameter	CRM Acceptance Limits	Spike Conc	LCS Conc	LCS % Rec	LCS Dup Conc	LCS DUP % Rec	% RPD	Date Analyzed
Chloride		10.0	10.2	102	10.2	102	0	4/24/2014
Total Cyanide		0.10	0.092	92	0.093	93	1	4/22/2014
Volatile Organics by Method 8260								
cis-1,2-Dichloroethene		50	49	98	48	96	2	4/22/2014
trans-1,2-Dichloroethylene		50	48	96	46	92	4	4/22/2014
MTBE		50	47	94	48	96	2	4/22/2014
Tetrachloroethene		50	52	104	49	98	6	4/23/2014
Trichloroethene		50	51	102	49	98	4	4/22/2014
Surrogates								
Dibromofluoromethane			99		100			
Toluene-d8			102		102			
4-Bromofluorobenzene			99		99			
1,2 Dichloroethane-d4			97		99			
cis-1,2-Dichloroethene		50	48	96	47	94	2	4/23/2014
trans-1,2-Dichloroethylene		50	46	92	44	88	4	4/23/2014
MTBE		50	45	90	45	90	0	4/23/2014
Tetrachloroethene		50	50	100	47	94	6	4/23/2014
Trichloroethene		50	50	100	48	96	4	4/23/2014
Surrogates								
Dibromofluoromethane			98		99			
Toluene-d8			102		101			

QA/QC Report

Client: CHA Consulting, Inc.

WO #: 1404-08463

Date: 4/24/2014

-LCS/LCS Duplicate Data Results-

Parameter	CRM Acceptance Limits	Spike Conc	LCS Conc	LCS % Rec	LCS Dup Conc	LCS DUP % Rec	% RPD	Date Analyzed
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Volatile Organics by Method 8260 (cont'd)

4-Bromofluorobenzene

98

99

1,2 Dichloroethane-d4

96

98

Metals

Iron

10.0

9.92

99

9.98

100

I

4/23/2014



CHAIN OF CUSTODY RECORD

41 Illinois Avenue
 Warwick, RI 02888-3007
 800-937-2580 • Fax: 401-738-1970

131 Coolidge St., Suite 105
 Hudson, MA 01749-1331
 800-937-2580 • Fax: 978-568-0078

Date Collected	Time Collected	Field Sample Identification	Grab or Composite	# of Containers & Type	Preservation Code ¹	Matrix Code ²	Cyanide	Iron	Chloride	PH	MIBE	DECEKREICE
4/21/14	15:15	Influent	G	2V3P 5N 5M	GW	GW	X	X	X	X	X	X
4/21/14	15:30	Effluent	G	2V3P 5N 5M	GW	GW	X	X	X	X	X	X

Client Information

Company Name: **CHA Consulting, Inc.**
 Address: **101 Accord Park Drive, Suite One**
 City / State / Zip: **Norwell, MA 02061**
 Telephone: **(781) 982-5400** Fax: **(781) 982-5486**
 Contact Person:

Project Information

Project Name: **Cushing Village** Project Number: **25736**
 P.O. Number: **25236** Phone:
 Report To: **Ron Beras** Email report to these addresses: **RBurns@cha.companies.com**
 Sampled by: **Amanda Centovesi** addresses: **ACentovesi@cha.companies.com**
 Quote No:

Relinquished By	Date	Time	Received By	Date	Time
<i>[Signature]</i>	4/21/14	15:45	<i>[Signature]</i>	4/21/14	15:45
<i>[Signature]</i>	4-21-14	17:35	<i>[Signature]</i>	4-21-14	17:45
<i>[Signature]</i>	4-21-14	18:25	<i>[Signature]</i>	4-21-14	18:25

Project Comments

Circle if applicable: GW-1, **GW-2**, **GW-3** S-1, S-2, S-3 MCP Data Enhancement QC Package? **Yes** No

for water by K. Maye 4/22/14. RP

Temp Upon Receipt **11** °C

Turn Around Time

Normal	<input checked="" type="checkbox"/>	EMAIL Report
5 Business days.		
Rush - Date Due:	<input checked="" type="checkbox"/>	4/24/14

Lab Use Only

<input checked="" type="checkbox"/>	Sample Pick Up Only
<input type="checkbox"/>	RIAL sampled; attach field hours
<input checked="" type="checkbox"/>	Shipped on ice

Workorder No: **1404-08463**

Containers: P=Poly, G=Glass, AG=Amber Glass, V=Vial, St=Sterile Preservatives, A=Ascorbic Acid, NH4=NH4Cl, H=HCl, M=MeOH, N=HNO3, NP=None, S=H2SO4, SB=NaHSO4, SH=NaOH, T=Na2S2O3, Z=ZnOAc
 Matrix Codes: GW=Groundwater, SW=Surface Water, WW=Wastewater, DW=Drinking Water, S=Soil, SL=Sludge, A=Air, B=Bulk/Solid, O=

<1	70	NA	NA	624	NA	624	NA	624
	5	NA	NA	624	NA	624	NA	624
	5	NA	NA	624	NA	624	NA	624
	2	NA	NA	624	NA	624	NA	624
	5	NA	NA	624	NA	624	NA	624
	70	NA	NA	624	NA	624	NA	624
	70	NA	NA	624	NA	624	NA	624
7.1	6.5-8.3	NA	NA	4500	NA	4500	NA	4500
3,000	monitor	monitor	monitor	4500CL-E (300 equivalent) 4500 (330.5 equivalent)/EPA	monitor	4500CL-E (300 equivalent) 4500 (330.5 equivalent)/EPA	monitor	4500 (330.5 equivalent)/EPA
≤10	10	NA	NA	335.4	NA	335.4	NA	335.4
129	30,000	NA	NA	200.7	NA	200.7	NA	200.7
-	1.3	5,000	5,000	6020 (ICP-MS-200.7/1620 equivalent)	5,000	6020 (ICP-MS-200.7/1620 equivalent)	5,000	6020 (ICP-MS-200.7/1620 equivalent)
-	11.4(VI)/48.8(III)	570(VI)/1,710(III)	430	6020 (ICP-MS-200.7/1620 equivalent)	430	6020 (ICP-MS-200.7/1620 equivalent)	430	6020 (ICP-MS-200.7/1620 equivalent)
-	11.4(VI)/48.8(III)	570(VI)/1,710(III)	1,140(VI)/1,710(III)	6020 (ICP-MS-200.7/1620 equivalent)	1,140(VI)/1,710(III)	6020 (ICP-MS-200.7/1620 equivalent)	1,140(VI)/1,710(III)	6020 (ICP-MS-200.7/1620 equivalent)
-	11.4(VI)/48.8(III)	570(VI)/1,710(III)	1,140(VI)/1,710(III)	(7196A equivalent)	1,140(VI)/1,710(III)	(7196A equivalent)	1,140(VI)/1,710(III)	(7196A equivalent)
-	11.4(VI)/48.8(III)	570(VI)/1,710(III)	Total - Hex = Trivalent (DLs used for worse)	Total - Hex = Trivalent (DLs used for worse)	1,140(VI)/1,710(III)	Total - Hex = Trivalent (DLs used for worse)	1,140(VI)/1,710(III)	Total - Hex = Trivalent (DLs used for worse)
-	5.2	520	2,070	6020 (ICP-MS-200.7/1620 equivalent)	2,070	6020 (ICP-MS-200.7/1620 equivalent)	2,070	6020 (ICP-MS-200.7/1620 equivalent)
-	29	2,380	2,380	6020 (ICP-MS-200.7/1620 equivalent)	2,380	6020 (ICP-MS-200.7/1620 equivalent)	2,380	6020 (ICP-MS-200.7/1620 equivalent)
-	5	408	408	6020 (ICP-MS-200.7/1620 equivalent)	408	6020 (ICP-MS-200.7/1620 equivalent)	408	6020 (ICP-MS-200.7/1620 equivalent)
-	66.6	1,480	1,480	6020 (ICP-MS-200.7/1620 equivalent)	1,480	6020 (ICP-MS-200.7/1620 equivalent)	1,480	6020 (ICP-MS-200.7/1620 equivalent)

NA = not applicable
has been indicated.

used the Method Detection Limit (MDL) to address if PAVs required detection limits.