TETRA TECH GEO

21335 Signal Hill Plaza
Suite 100
Sterling, Virginia 20164

www.tetratechgeo.com

703-444-7000 FAX 703-444-1685

May 3rd, 2012

Water Permit Manager
Department of Environmental Quality
Northern Virginia Regional Office
13901 Crown Court Road
Woodbridge, VA 22193

VA DEPARTMENT OF ENVIRONMENTAL QUALITY
NORTHERN
MAY 08 2012
REGIONAL OFFICE
WOODBRIDGE, VA

Reference: Reissuance of VPDES Permit No. VA0089796
The Nature Conservancy, Arlington
Tetra Tech Geo Project No. 5805.007.03

Dear Sir:

Enclosed, please find the VPDES permit reissuance package for the Nature Conservancy Site groundwater treatment system as required by the Virginia Department of Environmental Quality 180 days prior to permit expiration. Included in this package are EPA forms 1 and 2C, VPDES permit application addendum, VA0089796 public notice billing information form, previous chemistry data, site maps and site diagrams.

The pump and treatment system has been online for fifteen (15) years and has been very efficient in reducing the influent levels for target constituents well below effluent limitations, almost exclusively to non-detect levels. The flow for the system is consistently below the design capacity of 0.0144 MGD. Regular system maintenance is carried out daily by onsite staff, including but not limited to checks for system fouling, machinery operation, system shut down, alarm response and basement air quality. Please feel free to contact me reference the biannual sampling at you convenience.

If you have questions, comments or require more information regarding this submittal, please feel free to contact me at (703) 444-7000.

Sincerely,

Justin Cooper
Project Geologist

cc: Maggie Savage, Foulger Pratt Management

Please print or type in the unshaded areas only.

Form Approved. OMB No. 2040-0086.

FORM 1 GENERAL

EPA

U.S. ENVIRONMENTAL PROTECTION AGENCY

GENERAL INFORMATION

Consolidated Permits Program

(Read the "General Instructions" before starting.)

I. EPA I.D. NUMBER

S		T/A	C
F	VA0089796		D
1	2 — 13	14	15

LABEL ITEMS	
I. EPA I.D. NUMBER	PLEASE PLACE LABEL IN THIS SPACE
III. FACILITY NAME	
V. FACILITY MAILING ADDRESS	
VI. FACILITY LOCATION	

GENERAL INSTRUCTIONS

If a preprinted label has been provided, affix it in the designated space. Review the information carefully; if any of it is incorrect, cross through it and enter the correct data in the appropriate fill-in area below. Also, if any of the preprinted data is absent *(the area to the left of the label space lists the information that should appear)*, please provide it in the proper fill-in area(s) below. If the label is complete and correct, you need not complete Items I, III, V, and VI *(except VI-B which must be completed regardless)*. Complete all items if no label has been provided. Refer to the instructions for detailed item descriptions and for the legal authorizations under which this data is collected.

II. POLLUTANT CHARACTERISTICS

INSTRUCTIONS: Complete A through J to determine whether you need to submit any permit application forms to the EPA. If you answer "yes" to any questions, you must submit this form and the supplemental form listed in the parenthesis following the question. Mark "X" in the box in the third column if the supplemental form is attached. If you answer "no" to each question, you need not submit any of these forms. You may answer "no" if your activity is excluded from permit requirements; see Section C of the instructions. See also, Section D of the instructions for definitions of **bold-faced terms**.

SPECIFIC QUESTIONS	Mark "X" YES	NO	FORM ATTACHED	SPECIFIC QUESTIONS	Mark "X" YES	NO	FORM ATTACHED
A. Is this facility a **publicly owned treatment works** which results in a **discharge to waters of the U.S.**? (FORM 2A)		X		B. Does or will this facility *(either existing or proposed)* include a **concentrated animal feeding operation** or **aquatic animal production facility** which results in a **discharge to waters of the U.S.**? (FORM 2B)		X	
	16	17	18		19	20	21
C. Is this a facility which currently results in **discharges** to **waters of the U.S.** other than those described in A or B above? (FORM 2C)	X		X	D. Is this a proposed facility *(other than those described in A or B above)* which will result in a **discharge** to **waters of the U.S.**? (FORM 2D)		X	
	22	23	24		25	26	27
E. Does or will this facility treat, store, or dispose of **hazardous wastes**? (FORM 3)		X		F. Do you or will you inject at this facility industrial or municipal effluent below the lowermost stratum containing, within one quarter mile of the well bore, underground sources of drinking water? (FORM 4)		X	
	28	29	30		31	32	33
G. Do you or will you inject at this facility any produced water or other fluids which are brought to the surface in connection with conventional oil or natural gas production, inject fluids used for enhanced recovery of oil or natural gas, or inject fluids for storage of liquid hydrocarbons? (FORM 4)		X		H. Do you or will you inject at this facility fluids for special processes such as mining of sulfur by the Frasch process, solution mining of minerals, in situ combustion of fossil fuel, or recovery of geothermal energy? (FORM 4)		X	
	34	35	36		37	38	39
I. Is this facility a proposed **stationary source** which is one of the 28 industrial categories listed in the instructions and which will potentially emit 100 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)		X		J. Is this facility a proposed **stationary source** which is NOT one of the 28 industrial categories listed in the instructions and which will potentially emit 250 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an **attainment area**? (FORM 5)		X	
	40	41	42		43	44	45

III. NAME OF FACILITY

C 1 SKIP THE NATURE CONSERVANCY

15 16 - 29 30 — 69

IV. FACILITY CONTACT

A. NAME & TITLE *(last, first, & title)*: C 2 COOPER, JUSTIN, PROJECT GEOLOGIST (15–45)

B. PHONE *(area code & no.)*: (703) 444-7000 (46–48, 49–51, 52–56)

V. FACILTY MAILING ADDRESS

A. STREET OR P.O. BOX: C 3 21335 SIGNAL HILL PLAZA SUITE 100 (15–45)

B. CITY OR TOWN: C 4 STERLING (15–40)

C. STATE: VA (41–42)

D. ZIP CODE: 20164 (47–51)

VI. FACILITY LOCATION

A. STREET, ROUTE NO. OR OTHER SPECIFIC IDENTIFIER: C 5 4245 NORTH FAIRFAX DRIVE (15–45)

B. COUNTY NAME: ARLINGTON (46–70)

C. CITY OR TOWN: C 6 ARLINGTON (15–40)

D. STATE: VA (41–42)

E. ZIP CODE: 22203 (47–51)

F. COUNTY CODE *(if known)* (52–54)

CONTINUE ON REVERSE

CONTINUED FROM THE FRONT

VII. SIC CODES *(4-digit, in order of priority)*

A. FIRST	B. SECOND
4959 *(specify)* Sanitary Services, Not Elsewhere Classified - Air stripping and effluent discharge	*(specify)*
C. THIRD	**D. FOURTH**
(specify)	*(specify)*

VIII. OPERATOR INFORMATION

A. NAME: THE NATURE CONSERVANCY

B. Is the name listed in Item VIII-A also the owner? ☑ YES ☐ NO

C. STATUS OF OPERATOR *(Enter the appropriate letter into the answer box: if "Other," specify.)*

F = FEDERAL
S = STATE
P = PRIVATE
M = PUBLIC *(other than federal or state)*
O = OTHER *(specify)*

P *(specify)*

D. PHONE *(area code & no.)*: A (703) 841-5300

E. STREET OR P.O. BOX: 4245 NORTH FAIRFAX DRIVE

F. CITY OR TOWN: ARLINGTON

G. STATE: VA

H. ZIP CODE: 22203

IX. INDIAN LAND

Is the facility located on Indian lands? ☐ YES ☑ NO

X. EXISTING ENVIRONMENTAL PERMITS

A. NPDES *(Discharges to Surface Water)*	N	VA0089796	
D. PSD *(Air Emissions from Proposed Sources)*	P		
B. UIC *(Underground Injection of Fluids)*	U		
E. OTHER *(specify)*			*(specify)*
C. RCRA *(Hazardous Wastes)*	R		
E. OTHER *(specify)*			*(specify)*

XI. MAP

Attach to this application a topographic map of the area extending to at least one mile beyond property boundaries. The map must show the outline of the facility, the location of each of its existing and proposed intake and discharge structures, each of its hazardous waste treatment, storage, or disposal facilities, and each well where it injects fluids underground. Include all springs, rivers, and other surface water bodies in the map area. See instructions for precise requirements.

XII. NATURE OF BUSINESS *(provide a brief description)*

The Nature Conservancy, a private non-profit organization, constructed in 1997 on a contaminated site formerly known as Birch's Crossroads, an 8-story office building to serve as its headquarters. Portion of the site was contaminated with petroleum products and chlorinated solvents. Petroleum contamination was attributed to the operation on the site of a gas station from 1935 to 1953, and an auto repair shop from 1957 to 1974. The contamination of chlorinated solvents is believed to have originated from a nearby dry cleaning shop that had operated since 1957. In February 1997 under the Virginia Voluntary Remediation Program, groundwater remediation was initiated as part of the construction activities. A VPDES permit was issued in January 1998 for discharge of the remediated groundwater.

XIII. CERTIFICATION *(see instructions)*

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that, based on my inquiry of those persons immediately responsible for obtaining the information contained in the application, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

A. NAME & OFFICIAL TITLE *(type or print)*	B. SIGNATURE	C. DATE SIGNED
Cooper, Justin, Project Geologist	Justin Cooper	5/3/2012

COMMENTS FOR OFFICIAL USE ONLY

C

Please print or type in the unshaded areas only.

EPA I.D. NUMBER (*copy from Item 1 of Form 1*)

Form Approved.
OMB No. 2040-0086.
Approval expires 3-31-98.

FORM **2C** NPDES

EPA

U.S. ENVIRONMENTAL PROTECTION AGENCY
APPLICATION FOR PERMIT TO DISCHARGE WASTEWATER
EXISTING MANUFACTURING, COMMERCIAL, MINING AND SILVICULTURE OPERATIONS
Consolidated Permits Program

I. OUTFALL LOCATION

For each outfall, list the latitude and longitude of its location to the nearest 15 seconds and the name of the receiving water.

A. OUTFALL NUMBER (*list*)	B. LATITUDE			C. LONGITUDE			D. RECEIVING WATER (*name*)
	1. DEG.	2. MIN.	3. SEC.	1. DEG.	2. MIN.	3. SEC.	
001	38	52	57	77	06	45	LUBBER RUN, UT STORM SEWER

II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES

A. Attach a line drawing showing the water flow through the facility. Indicate sources of intake water, operations contributing wastewater to the effluent, and treatment units labeled to correspond to the more detailed descriptions in Item B. Construct a water balance on the line drawing by showing average flows between intakes, operations, treatment units, and outfalls. If a water balance cannot be determined (*e.g., for certain mining activities*), provide a pictorial description of the nature and amount of any sources of water and any collection or treatment measures.

B. For each outfall, provide a description of: (1) All operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, cooling water, and storm water runoff; (2) The average flow contributed by each operation; and (3) The treatment received by the wastewater. Continue on additional sheets if necessary.

1. OUT-FALL NO. (*list*)	2. OPERATION(S) CONTRIBUTING FLOW		3. TREATMENT		
	a. OPERATION (*list*)	b. AVERAGE FLOW (*include units*)	a. DESCRIPTION	b. LIST CODES FROM TABLE 2C-1	
001	PUMPING GROUNDWATER FROM BUILDING	0.0144 MGD	AIR-STRIPPING	1-F	2-A
	FOUNDATION DRAIN				

OFFICIAL USE ONLY (*effluent guidelines sub-categories*)

CONTINUED FROM THE FRONT

C. Except for storm runoff, leaks, or spills, are any of the discharges described in Items II-A or B intermittent or seasonal?

☐ YES (*complete the following table*) ☐ NO (*go to Section III*)

1. OUTFALL NUMBER (*list*)	2. OPERATION(s) CONTRIBUTING FLOW (*list*)	3. FREQUENCY		4. FLOW				
		a. DAYS PER WEEK (*specify average*)	b. MONTHS PER YEAR (*specify average*)	a. FLOW RATE (*in mgd*)		B. TOTAL VOLUME (*specify with units*)		C. DURATION (*in days*)
				1. LONG TERM AVERAGE	2. MAXIMUM DAILY	1. LONG TERM AVERAGE	2. MAXIMUM DAILY	

III. PRODUCTION

A. Does an effluent guideline limitation promulgated by EPA under Section 304 of the Clean Water Act apply to your facility?

☑ YES (*complete Item III-B*) ☐ NO (*go to Section IV*)

B. Are the limitations in the applicable effluent guideline expressed in terms of production (*or other measure of operation*)?

☐ YES (*complete Item III-C*) ☑ NO (*go to Section IV*)

C. If you answered "yes" to Item III-B, list the quantity which represents an actual measurement of your level of production, expressed in the terms and units used in the applicable effluent guideline, and indicate the affected outfalls.

1. AVERAGE DAILY PRODUCTION			2. AFFECTED OUTFALLS (*list outfall numbers*)
a. QUANTITY PER DAY	b. UNITS OF MEASURE	c. OPERATION, PRODUCT, MATERIAL, ETC. (*specify*)	

IV. IMPROVEMENTS

A. Are you now required by any Federal, State or local authority to meet any implementation schedule for the construction, upgrading or operations of wastewater treatment equipment or practices or any other environmental programs which may affect the discharges described in this application? This includes, but is not limited to, permit conditions, administrative or enforcement orders, enforcement compliance schedule letters, stipulations, court orders, and grant or loan conditions.

☐ YES (*complete the following table*) ☑ NO (*go to Item IV-B*)

1. IDENTIFICATION OF CONDITION, AGREEMENT, ETC.	2. AFFECTED OUTFALLS		3. BRIEF DESCRIPTION OF PROJECT	4. FINAL COMPLIANCE DATE	
	a. NO.	b. SOURCE OF DISCHARGE		a. REQUIRED	b. PROJECTED

B. OPTIONAL: You may attach additional sheets describing any additional water pollution control programs (*or other environmental projects which may affect your discharges*) you now have underway or which you plan. Indicate whether each program is now underway or planned, and indicate your actual or planned schedules for construction.

☐ MARK "X" IF DESCRIPTION OF ADDITIONAL CONTROL PROGRAMS IS ATTACHED

CONTINUE ON PAGE 3

EPA I.D. NUMBER (*copy from Item 1 of Form 1*)

CONTINUED FROM PAGE 2

V. INTAKE AND EFFLUENT CHARACTERISTICS

A, B, & C: See instructions before proceeding – Complete one set of tables for each outfall – Annotate the outfall number in the space provided.
NOTE: Tables V-A, V-B, and V-C are included on separate sheets numbered V-1 through V-9.

D. Use the space below to list any of the pollutants listed in Table 2c-3 of the instructions, which you know or have reason to believe is discharged or may be discharged from any outfall. For every pollutant you list, briefly describe the reasons you believe it to be present and report any analytical data in your possession.

1. POLLUTANT	2. SOURCE	1. POLLUTANT	2. SOURCE
Benzene	Present in influent water		
Toluene	Present in influent water		
Ethylbenzene	Present in influent water		
Xylene	Present in influent water		
Dichloromethane	Present in influent water		
Tetrachloromethane	Present in influent water		
1,1-Dichloroethylene	Present in influent water		
cis-1,2-Dichloroethylene	Present in influent water		
Total Volatile Organics	Present in influent water		
Trans-1,2-Dichloroethylene	Present in influent water		
Trichloroethylene	Present in influent water		
Tetrachloroethylene	Present in influent water		
1,2-Dichloroethane	Present in influent water		
1,1,1-Trichloroethane	Present in influent water		
Chloroform	Present in influent water		
Vinyl Chloride	Present in influent water		
1,2-Dichlorobenzene	Present in influent water		

VI. POTENTIAL DISCHARGES NOT COVERED BY ANALYSIS

Is any pollutant listed in Item V-C a substance or a component of a substance which you currently use or manufacture as an intermediate or final product or byproduct?

☐ YES (*list all such pollutants below*) ☑ NO (*go to Item VI-B*)

CONTINUED FROM THE FRONT

VII. BIOLOGICAL TOXICITY TESTING DATA

Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made on any of your discharges or on a receiving water in relation to your discharge within the last 3 years?

☐ YES (*identify the test(s) and describe their purposes below*) ☑ NO (*go to Section VIII*)

VIII. CONTRACT ANALYSIS INFORMATION

Were any of the analyses reported in Item V performed by a contract laboratory or consulting firm?

☑ YES (*list the name, address, and telephone number of, and pollutants analyzed by, each such laboratory or firm below*) ☐ NO (*go to Section IX*)

A. NAME	B. ADDRESS	C. TELEPHONE (*area code & no.*)	D. POLLUTANTS ANALYZED (*list*)
Tetra Tech Geo (Formerly GeoTrans, Inc)	21335 Signal Hill Plaza Suite 100 Sterling, VA 21064	703-444-7000	pH
Martel Laboratories JDS Inc.	1025 Cromwell Bridge Road Baltimore, MD, 21286	410-825-7790	Volitile Organic Analysis Method 8260B

IX. 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, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. NAME & OFFICIAL TITLE (*type or print*)	B. PHONE NO. (*area code & no.*)
Justin Cooper, Project Geologist	(703) 444-7000
C. SIGNATURE	D. DATE SIGNED
Justin Cooper	5/3/2012

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets (*use the same format*) instead of completing these pages.
SEE INSTRUCTIONS.

EPA I.D. NUMBER (*copy from Item 1 of Form 1*)

V. INTAKE AND EFFLUENT CHARACTERISTICS *(continued from page 3 of Form 2-C)*

OUTFALL NO.

PART A –You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

1. POLLUTANT	2. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE (*if available*) (1) CONCENTRATION	(2) MASS	c. LONG TERM AVRG. VALUE (*if available*) (1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	3. UNITS (*specify if blank*) a. CONCEN-TRATION	b. MASS	4. INTAKE (*optional*) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
a. Biochemical Oxygen Demand (*BOD*)	5	1.49902						mg/L	lbs			
b. Chemical Oxygen Demand (*COD*)	5	1.49902						mg/L	lbs			
c. Total Organic Carbon (*TOC*)	1	0.29980						mg/L	lbs			
d. Total Suspended Solids (*TSS*)	5	1.49902						mg/L	lbs			
e. Ammonia (*as N*)	1	0.29980						mg/L	lbs			
f. Flow	VALUE 3600		VALUE		VALUE			gpd	gpd	VALUE		
g. Temperature (*winter*)	VALUE 12.8		VALUE		VALUE			°C		VALUE		
h. Temperature (*summer*)	VALUE 12.8		VALUE		VALUE			°C		VALUE		
i. pH	MINIMUM 6	MAXIMUM 9	MINIMUM	MAXIMUM				STANDARD UNITS				

PART B – Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions for additional details and requirements.

1. POLLUTANT AND CAS NO. (*if available*)	2. MARK "X" a. BELIEVED PRESENT	b. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE (*if available*) (1) CONCENTRATION	(2) MASS	c. LONG TERM AVRG. VALUE (*if available*) (1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCEN-TRATION	b. MASS	5. INTAKE (*optional*) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
a. Bromide (24959-67-9)		X												
b. Chlorine, Total Residual		X												
c. Color		X												
d. Fecal Coliform		X												
e. Fluoride (16984-48-8)		X												
f. Nitrate-Nitrite (*as N*)		X												

ITEM V-B CONTINUED FROM FRONT

1. POLLUTANT AND CAS NO. (*if available*)	2. MARK "X"		3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	a. BELIEVED PRESENT	b. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG. VALUE (*if available*)		d. NO. OF ANALYSES	a. CONCEN-TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
g. Nitrogen, Total Organic (*as N*)		X												
h. Oil and Grease		X												
i. Phosphorus (as P), Total (7723-14-0)		X												
j. Radioactivity														
(1) Alpha, Total		X												
(2) Beta, Total		X												
(3) Radium, Total		X												
(4) Radium 226, Total		X												
k. Sulfate (*as* SO_4) (14808-79-8)		X												
l. Sulfide (*as S*)		X												
m. Sulfite (*as* SO_3) (14265-45-3)		X												
n. Surfactants		X												
o. Aluminum, Total (7429-90-5)		X												
p. Barium, Total (7440-39-3)		X												
q. Boron, Total (7440-42-8)		X												
r. Cobalt, Total (7440-48-4)		X												
s. Iron, Total (7439-89-6)		X												
t. Magnesium, Total (7439-95-4)		X												
u. Molybdenum, Total (7439-98-7)		X												
v. Manganese, Total (7439-96-5)		X												
w. Tin, Total (7440-31-5)		X												
x. Titanium, Total (7440-32-6)		X												

CONTINUE ON PAGE V-3

EPA I.D. NUMBER (*copy from Item 1 of Form 1*)	OUTFALL NUMBER

CONTINUED FROM PAGE 3 OF FORM 2-C

PART C - If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a (*secondary industries, nonprocess wastewater outfalls, and nonrequired GC/MS fractions*), mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater. If you mark column 2b for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharge in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part; please review each carefully. Complete one table (*all 7 pages*) for each outfall. See instructions for additional details and requirements.

1. POLLUTANT AND CAS NUMBER (*if available*)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG. VALUE (*if available*)		d. NO. OF ANALYSES	a. CONCEN-TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
METALS, CYANIDE, AND TOTAL PHENOLS															
1M. Antimony, Total (7440-36-0)			X												
2M. Arsenic, Total (7440-38-2)			X												
3M. Beryllium, Total (7440-41-7)			X												
4M. Cadmium, Total (7440-43-9)			X												
5M. Chromium, Total (7440-47-3)			X												
6M. Copper, Total (7440-50-8)			X												
7M. Lead, Total (7439-92-1)			X												
8M. Mercury, Total (7439-97-6)			X												
9M. Nickel, Total (7440-02-0)			X												
10M. Selenium, Total (7782-49-2)			X												
11M. Silver, Total (7440-22-4)			X												
12M. Thallium, Total (7440-28-0)			X												
13M. Zinc, Total (7440-66-6)			X												
14M. Cyanide, Total (57-12-5)			X												
15M. Phenols, Total			X												
DIOXIN															
2,3,7,8-Tetra-chlorodibenzo-P-Dioxin (1764-01-6)				DESCRIBE RESULTS											

CONTINUE ON REVERSE

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCEN-TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – VOLATILE COMPOUNDS															
1V. Acrolein (107-02-8)			X												
2V. Acrylonitrile (107-13-1)			X												
3V. Benzene (71-43-2)		X													
4V. Bis (Chloromethyl) Ether (542-88-1)				DELISTED	02-4-81	ANALYSIS	NOT	REQUIRED	FOR	THIS					
5V. Bromoform (75-25-2)			X												
6V. Carbon Tetrachloride (56-23-5)		X													
7V. Chlorobenzene (108-90-7)			X												
8V. Chlorodibromomethane (124-48-1)			X												
9V. Chloroethane (75-00-3)			X												
10V. 2-Chloroethylvinyl Ether (110-75-8)			X												
11V. Chloroform (67-66-3)		X													
12V. Dichlorobromomethane (75-27-4)			X												
13V. Dichlorodifluoromethane (75-71-8)				DELISTED	01-8-81	ANALYSIS	NOT	REQUIRED	FOR	THIS					
14V. 1,1-Dichloroethane (75-34-3)			X												
15V. 1,2-Dichloroethane (107-06-2)		X													
16V. 1,1-Dichloroethylene (75-35-4)		X													
17V. 1,2-Dichloropropane (78-87-5)			X												
18V. 1,3-Dichloropropylene (542-75-6)			X												
19V. Ethylbenzene (100-41-4)		X													
20V. Methyl Bromide (74-83-9)			X												
21V. Methyl Chloride (74-87-3)			X												

CONTINUE ON PAGE V-5

CONTINUED FROM PAGE V-4

1. POLLUTANT AND CAS NUMBER (*if available*)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG. VALUE (*if available*)		d. NO. OF ANALYSES	a. CONCEN-TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – VOLATILE COMPOUNDS (*continued*)															
22V. Methylene Chloride (75-09-2)		X													
23V. 1,1,2,2-Tetrachloroethane (79-34-5)			X												
24V. Tetrachloro-ethylene (127-18-4)		X													
25V. Toluene (108-88-3)		X													
26V. 1,2-Trans-Dichloroethylene (156-60-5)			X												
27V. 1,1,1-Trichloro-ethane (71-55-6)		X													
28V. 1,1,2-Trichloro-ethane (79-00-5)			X												
29V Trichloro-ethylene (79-01-6)		X													
30V. Trichloro-fluoromethane (75-69-4)				***DELISTED***	***01-8-81***	ANALYSIS	NOT	REQUIRED	FOR	THIS					
31V. Vinyl Chloride (75-01-4)		X													
GC/MS FRACTION – ACID COMPOUNDS															
1A. 2-Chlorophenol (95-57-8)			X												
2A. 2,4-Dichloro-phenol (120-83-2)			X												
3A. 2,4-Dimethyl-phenol (105-67-9)			X												
4A. 4,6-Dinitro-O-Cresol (534-52-1)			X												
5A. 2,4-Dinitro-phenol (51-28-5)			X												
6A. 2-Nitrophenol (88-75-5)			X												
7A. 4-Nitrophenol (100-02-7)			X												
8A. P-Chloro-M-Cresol (59-50-7)			X												
9A. Pentachloro-phenol (87-86-5)			X												
10A. Phenol (108-95-2)			X												
11A. 2,4,6-Trichloro-phenol (88-05-2)			X												

CONTINUE ON REVERSE

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (*if available*)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG. VALUE (*if available*)		d. NO. OF ANALYSES	a. CONCEN-TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS															
1B. Acenaphthene (83-32-9)			X												
2B. Acenaphtylene (208-96-8)			X												
3B. Anthracene (120-12-7)			X												
4B. Benzidine (92-87-5)			X												
5B. Benzo (*a*) Anthracene (56-55-3)			X												
6B. Benzo (*a*) Pyrene (50-32-8)			X												
7B. 3,4-Benzo-fluoranthene (205-99-2)			X												
8B. Benzo (*ghi*) Perylene (191-24-2)			X												
9B. Benzo (*k*) Fluoranthene (207-08-9)			X												
10B. Bis (*2-Chloro-ethoxy*) Methane (111-91-1)			X												
11B. Bis (*2-Chloro-ethyl*) Ether (111-44-4)			X												
12B. Bis (*2-Chloroisopropyl*) Ether (102-80-1)			X												
13B. Bis (*2-Ethyl-hexyl*) Phthalate (117-81-7)			X												
14B. 4-Bromophenyl Phenyl Ether (101-55-3)			X												
15B. Butyl Benzyl Phthalate (85-68-7)			X												
16B. 2-Chloro-naphthalene (91-58-7)			X												
17B. 4-Chloro-phenyl Phenyl Ether (7005-72-3)			X												
18B. Chrysene (218-01-9)			X												
19B. Dibenzo (*a,h*) Anthracene (53-70-3)			X												
20B. 1,2-Dichloro-benzene (95-50-1)		X													
21B. 1,3-Di-chloro-benzene (541-73-1)			X												

 CONTINUE ON PAGE V-7

CONTINUED FROM PAGE V-6

1. POLLUTANT AND CAS NUMBER (*if available*)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG. VALUE (*if available*)		d. NO. OF ANALYSES	a. CONCEN-TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (*continued*)															
22B. 1,4-Dichloro-benzene (106-46-7)			X												
23B. 3,3-Dichloro-benzidine (91-94-1)			X												
24B. Diethyl Phthalate (84-66-2)			X												
25B. Dimethyl Phthalate (131 -11-3)			X												
26B. Di-N-Butyl Phthalate (84-74-2)			X												
27B. 2,4-Dinitro-toluene (121-14-2)			X												
28B. 2,6-Dinitro-toluene (606-20-2)			X												
29B. Di-N-Octyl Phthalate (117-84-0)			X												
30B. 1,2-Diphenyl-hydrazine (*as Azo-benzene*) (122-66-7)			X												
31B. Fluoranthene (206-44-0)			X												
32B. Fluorene (86-73-7)			X												
33B. Hexachloro-benzene (118-74-1)			X												
34B. Hexachloro-butadiene (87-68-3)			X												
35B. Hexachloro-cyclopentadiene (77-47-4)			X												
36B Hexachloro-ethane (67-72-1)			X												
37B. Indeno (1,2,3-*cd*) Pyrene (193-39-5)			X												
38B. Isophorone (78-59-1)			X												
39B. Naphthalene (91-20-3)			X												
40B. Nitrobenzene (98-95-3)			X												
41B. N-Nitro-sodimethylamine (62-75-9)			X												
42B. N-Nitrosodi-N-Propylamine (621-64-7)			X												

 CONTINUE ON REVERSE

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (*if available*)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG. VALUE (*if available*)		d. NO. OF ANALYSES	a. CONCEN-TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (*continued*)															
43B. N-Nitro-sodiphenylamine (86-30-6)			X												
44B. Phenanthrene (85-01-8)			X												
45B. Pyrene (129-00-0)			X												
46B. 1,2,4-Tri-chlorobenzene (120-82-1)			X												
GC/MS FRACTION – PESTICIDES															
1P. Aldrin (309-00-2)			X												
2P. α-BHC (319-84-6)			X												
3P. β-BHC (319-85-7)			X												
4P. γ-BHC (58-89-9)			X												
5P. δ-BHC (319-86-8)			X												
6P. Chlordane (57-74-9)			X												
7P. 4,4'-DDT (50-29-3)			X												
8P. 4,4'-DDE (72-55-9)			X												
9P. 4,4'-DDD (72-54-8)			X												
10P. Dieldrin (60-57-1)			X												
11P. α-Enosulfan (115-29-7)			X												
12P. β-Endosulfan (115-29-7)			X												
13P. Endosulfan Sulfate (1031-07-8)			X												
14P. Endrin (72-20-8)			X												
15P. Endrin Aldehyde (7421-93-4)			X												
16P. Heptachlor (76-44-8)			X												

CONTINUE ON PAGE V-9

EPA I.D. NUMBER (*copy from Item 1 of Form 1*)	OUTFALL NUMBER

CONTINUED FROM PAGE V-8

1. POLLUTANT AND CAS NUMBER (*if available*)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG. VALUE (*if available*)		d. NO. OF ANALYSES	a. CONCEN-TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – PESTICIDES (*continued*)															
17P. Heptachlor Epoxide (1024-57-3)			X												
18P. PCB-1242 (53469-21-9)			X												
19P. PCB-1254 (11097-69-1)			X												
20P. PCB-1221 (11104-28-2)			X												
21P. PCB-1232 (11141-16-5)			X												
22P. PCB-1248 (12672-29-6)			X												
23P. PCB-1260 (11096-82-5)			X												
24P. PCB-1016 (12674-11-2)			X												
25P. Toxaphene (8001-35-2)			X												

VPDES Permit Application Addendum

1. **Entity to whom the permit is to be issued**: The Nature Conservancy

Who will be legally responsible for the wastewater treatment facilities and compliance with the permit? This may or may not be the facility or property owner.

2. **Is this facility located within city or town boundaries?** Yes ☒ No ☐

3. **Provide the tax map parcel number for the land where the discharge is located.** _____

4. **For the facility to be covered by this permit, how many acres will be disturbed during the next five years due to new construction activities?** 0

5. **What is the design average effluent flow of this facility?** 0.0144 MGD
   For industrial facilities, provide the max. 30-day average production level, include units:

   _____

   In addition to the design flow or production level, should the permit be written with limits for any other discharge flow tiers or production levels? Yes ☐ No ☒
   If "Yes", please identify the other flow tiers (in MGD) or production levels:

   _____

Please consider the following questions for both the flow tiers and the production levels (if applicable): Do you plan to expand operations during the next five years? Is your facility's design flow considerably greater than your current flow?

6. **Nature of operations generating wastewater**:
   Pumping Groundwater from building foundation drain

   0 % of flow from domestic connections/sources

   Number of private residences to be served by the treatment works: 0

   ____ 100% of flow from non-domestic

7. **Mode of discharge**: ☒ Continuous ☐ Intermittent ☐ Seasonal
   Describe frequency and duration of intermittent or seasonal discharges:

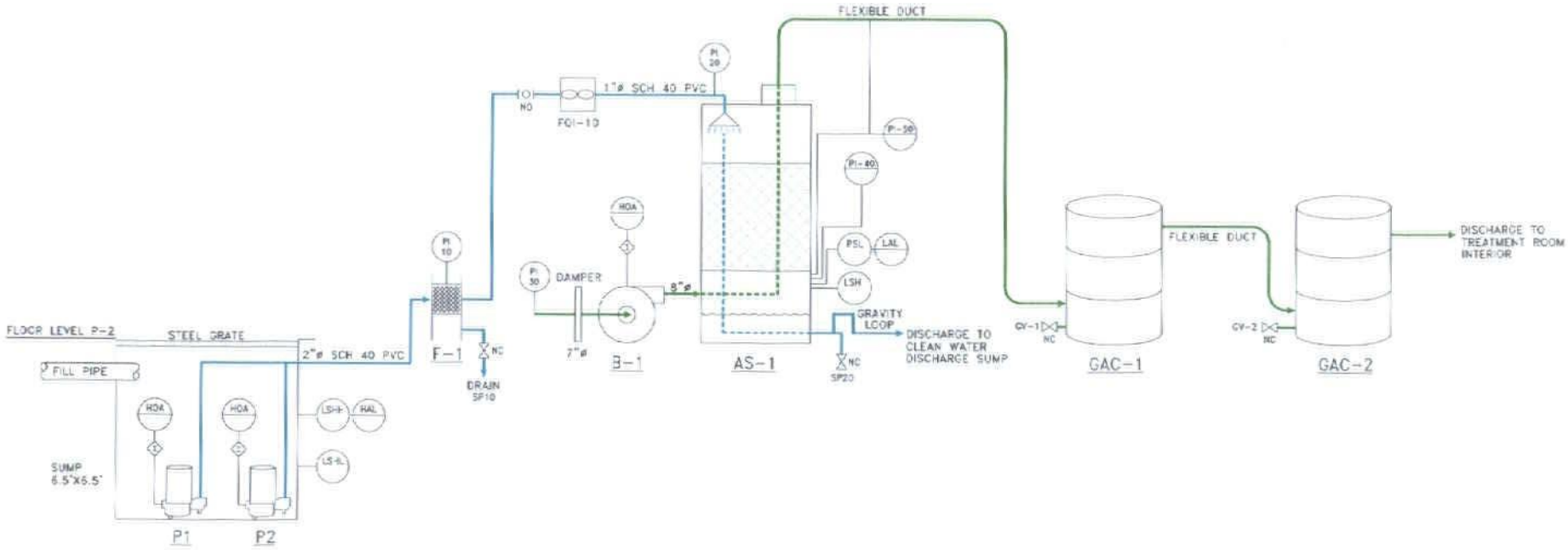
   _____

8. **Identify the characteristics of the receiving stream at the point just above the facility's discharge point:**

   ____ Permanent stream, never dry
   ____ Intermittent stream, usually flowing, sometimes dry
   x Ephemeral stream, wet-weather flow, often dry
   ____ Effluent-dependent stream, usually or always dry without effluent flow
   ____ Lake or pond at or below the discharge point
   ____ Other: _____

9. **Approval Date(s)**:
   O & M Manual September 25,1998 **Sludge/Solids Management Plan** _____

   Have there been any changes in your operations or procedures since the above approval dates? Yes ☐ No ☒



PUMPS P1 & P2

MANUFACTURER: STA-RITE
MODEL: 700E
MATERIAL: CAST IRON

FILTER F-1

MANUFACTURER: KRYSTAL CLEAR FILTER
MODEL: 20" HIGH, 4.5ø, 500 PSI
MATERIAL: STEEL

BLOWER B-1

MANUFACTURER: AMERICAN FAN CO.
MODEL: AF-15
MATERIAL: ALUMINUM

AIR STRIPPER A-1

MANUFACTURER: NORTH EAST ENVIRONMENTAL PRODUCTS
MODEL: 2331P
MATERIAL: PLASTIC

VAPOR PHASE CARBON VESSELS GAC1 & GAC2

MANUFACTURER: TETRASOLV FILTRATION
MODEL: VF 500
MATERIAL: STEEL

TITLE: GROUNDWATER TREATMENT SYSTEM
PIPING & INSTRUMENTATION DIAGRAM

LOCATION: Foulger Pratt – The Nature Conservacy
4245 North Fairfax Drive, Arlington, Virginia 22203

GeoTrans, Inc.

CHECKED	MM	FIGURE
DRAFTED	CP	1
FILE	5805002002A.DWG	
DATE	4-4-03	

Topographic Map for Surrounding area of The Nature Conservancy

MARTEL

ESTABLISHED 1968

VELAP ID 460017

Certificate of Analysis

Monday, September 19, 2011

Tetra Tech Geo
21335 Signal Hill Plaza
Suite 100
Sterling, VA 20164

FINAL

Attention: Justin Cooper

Report for Lab No: 83684.
Report for Lab No: 83684.
P.O. Number: 117-5805/006.01
Project Identification: TNC Fall 2011 Sampling - 9/8/11

MARTEL NO. 83684 000001 | CLIENT SAMPLE IDENTIFICATION INF-9-8-11 | Sample Date/Time 09/08/2011 11:15

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Volatile Organic Compounds			EPA 8260B		09/15/2011 03:11 CJD
Acetone	ND	ug/l	EPA 8260	2	09/15/2011 03:11 CJD
Benzene	ND	ug/l	EPA 8260	1	09/15/2011 03:11 CJD
Bromochloromethane	ND	ug/l	EPA 8260	1	09/15/2011 03:11 CJD
Bromodichloromethane	ND	ug/l	EPA 8260	1	09/15/2011 03:11 CJD
Bromoform	ND	ug/l	EPA 8260	1	09/15/2011 03:11 CJD
Bromomethane	ND	ug/l	EPA 8260	1	09/15/2011 03:11 CJD
2-Butanone	ND	ug/l	EPA 8260	2	09/15/2011 03:11 CJD
Carbon disulfide	ND	ug/l	EPA 8260	1	09/15/2011 03:11 CJD
Carbon tetrachloride	ND	ug/l	EPA 8260	1	09/15/2011 03:11 CJD
Chlorobenzene	ND	ug/l	EPA 8260	1	09/15/2011 03:11 CJD
Chloroethane	ND	ug/l	EPA 8260	1	09/15/2011 03:11 CJD
Chloroform	1.7	ug/l	EPA 8260	1	09/15/2011 03:11 CJD
Chloromethane	ND	ug/l	EPA 8260	1	09/15/2011 03:11 CJD
cis-1,2-Dichloroethene	34	ug/l	EPA 8260	1	09/15/2011 03:11 CJD
cis-1,3-Dichloropropene	ND	ug/l	EPA 8260	1	09/15/2011 03:11 CJD
Cyclohexane	ND	ug/l	EPA 8260	1	09/15/2011 03:11 CJD
1,2-Dibromo-3-chloropropane	ND	ug/l	EPA 8260	5	09/15/2011 03:11 CJD
Dibromochloromethane	ND	ug/l	EPA 8260	1	09/15/2011 03:11 CJD
1,2-Dibromoethane	ND	ug/l	EPA 8260	1	09/15/2011 03:11 CJD
1,2-Dichlorobenzene	ND	ug/l	EPA 8260	1	09/15/2011 03:11 CJD
1,3-Dichlorobenzene	ND	ug/l	EPA 8260	1	09/15/2011 03:11 CJD
1,4-Dichlorobenzene	ND	ug/l	EPA 8260	1	09/15/2011 03:11 CJD
Dichlorodifluoromethane	ND	ug/l	EPA 8260	1	09/15/2011 03:11 CJD
1,1-Dichloroethane	ND	ug/l	EPA 8260	1	09/15/2011 03:11 CJD
1,2-Dichloroethane	ND	ug/l	EPA 8260	1	09/15/2011 03:11 CJD
1,1-Dichloroethene	ND	ug/l	EPA 8260	1	09/15/2011 03:11 CJD
Dichloromethane	ND	ug/l	EPA 8260	1	09/15/2011 03:11 CJD
1,2-Dichloropropane	ND	ug/l	EPA 8260	1	09/15/2011 03:11 CJD
Ethylbenzene	ND	ug/l	EPA 8260	1	09/15/2011 03:11 CJD
2-Hexanone	ND	ug/l	EPA 8260	2	09/15/2011 03:11 CJD
Isopropylbenzene	ND	ug/l	EPA 8260	1	09/15/2011 03:11 CJD

MARTEL

MARTEL NO. 83684 000001 INF-9-8-11

CLIENT SAMPLE IDENTIFICATION

Sample Date/Time 09/08/2011 11:15

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Methyl Acetate	ND	ug/l	EPA 8260	1	09/15/2011 03:11 CJD
4-Methyl-2-pentanone	ND	ug/l	EPA 8260	2	09/15/2011 03:11 CJD
Methyl-t-butyl ether	ND	ug/l	EPA 8260	1	09/15/2011 03:11 CJD
Methylcyclohexane	ND	ug/l	EPA 8260	1	09/15/2011 03:11 CJD
Styrene	ND	ug/l	EPA 8260	1	09/15/2011 03:11 CJD
1,1,1,2-Tetrachloroethane	ND	ug/l	EPA 8260	1	09/15/2011 03:11 CJD
1,1,2,2-Tetrachloroethane	ND	ug/l	EPA 8260	1	09/15/2011 03:11 CJD
Tetrachloroethene	171	ug/l	EPA 8260	10	09/15/2011 05:07 CJD
Toluene	ND	ug/l	EPA 8260	1	09/15/2011 03:11 CJD
trans-1,2-Dichloroethene	ND	ug/l	EPA 8260	1	09/15/2011 03:11 CJD
trans-1,3-Dichloropropene	ND	ug/l	EPA 8260	1	09/15/2011 03:11 CJD
1,1,2-Trichlo-1,2,2-trifluoroethane	ND	ug/l	EPA 8260	1	09/15/2011 03:11 CJD
1,2,3-Trichlorobenzene	ND	ug/l	EPA 8260	1	09/15/2011 03:11 CJD
1,2,4-Trichlorobenzene	ND	ug/l	EPA 8260	1	09/15/2011 03:11 CJD
1,1,1-Trichloroethane	ND	ug/l	EPA 8260	1	09/15/2011 03:11 CJD
1,1,2-Trichloroethane	ND	ug/l	EPA 8260	1	09/15/2011 03:11 CJD
Trichloroethene	8.6	ug/l	EPA 8260	1	09/15/2011 03:11 CJD
Trichlorofluoromethane	ND	ug/l	EPA 8260	1	09/15/2011 03:11 CJD
Vinyl chloride	ND	ug/l	EPA 8260	1	09/15/2011 03:11 CJD
Xylene, Total	ND	ug/l	EPA 8260	1	09/15/2011 03:11 CJD
					/ /
Surrogate Spike					/ /
4-Bromofluorobenzene	102	%	EPA 8260		09/15/2011 03:11 CJD
Dibromofluoromethane	87	%	EPA 8260		09/15/2011 03:11 CJD
Toluene-d8	95	%	EPA 8260		09/15/2011 03:11 CJD

MARTEL NO. 83684 000002 EFF-9-8-11

CLIENT SAMPLE IDENTIFICATION

Sample Date/Time 09/08/2011 11:30

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Volatile Organic Compounds			EPA 8260B		09/14/2011 23:58 CJD
Acetone	ND	ug/l	EPA 8260	2	09/14/2011 23:58 CJD
Benzene	ND	ug/l	EPA 8260	1	09/14/2011 23:58 CJD
Bromochloromethane	ND	ug/l	EPA 8260	1	09/14/2011 23:58 CJD
Bromodichloromethane	ND	ug/l	EPA 8260	1	09/14/2011 23:58 CJD
Bromoform	ND	ug/l	EPA 8260	1	09/14/2011 23:58 CJD
Bromomethane	ND	ug/l	EPA 8260	1	09/14/2011 23:58 CJD
2-Butanone	ND	ug/l	EPA 8260	2	09/14/2011 23:58 CJD
Carbon disulfide	ND	ug/l	EPA 8260	1	09/14/2011 23:58 CJD
Carbon tetrachloride	ND	ug/l	EPA 8260	1	09/14/2011 23:58 CJD
Chlorobenzene	ND	ug/l	EPA 8260	1	09/14/2011 23:58 CJD
Chloroethane	ND	ug/l	EPA 8260	1	09/14/2011 23:58 CJD
Chloroform	ND	ug/l	EPA 8260	1	09/14/2011 23:58 CJD
Chloromethane	ND	ug/l	EPA 8260	1	09/14/2011 23:58 CJD
cis-1,2-Dichloroethene	ND	ug/l	EPA 8260	1	09/14/2011 23:58 CJD

MARTEL

MARTEL NO. 83684 000002 EFF-9-8-11

CLIENT SAMPLE IDENTIFICATION

Sample Date/Time 09/08/2011 11:30

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
cis-1,3-Dichloropropene	ND	ug/l	EPA 8260	1	09/14/2011 23:58 CJD
Cyclohexane	ND	ug/l	EPA 8260	1	09/14/2011 23:58 CJD
1,2-Dibromo-3-chloropropane	ND	ug/l	EPA 8260	5	09/14/2011 23:58 CJD
Dibromochloromethane	ND	ug/l	EPA 8260	1	09/14/2011 23:58 CJD
1,2-Dibromoethane	ND	ug/l	EPA 8260	1	09/14/2011 23:58 CJD
1,2-Dichlorobenzene	ND	ug/l	EPA 8260	1	09/14/2011 23:58 CJD
1,3-Dichlorobenzene	ND	ug/l	EPA 8260	1	09/14/2011 23:58 CJD
1,4-Dichlorobenzene	ND	ug/l	EPA 8260	1	09/14/2011 23:58 CJD
Dichlorodifluoromethane	ND	ug/l	EPA 8260	1	09/14/2011 23:58 CJD
1,1-Dichloroethane	ND	ug/l	EPA 8260	1	09/14/2011 23:58 CJD
1,2-Dichloroethane	ND	ug/l	EPA 8260	1	09/14/2011 23:58 CJD
1,1-Dichloroethene	ND	ug/l	EPA 8260	1	09/14/2011 23:58 CJD
Dichloromethane	ND	ug/l	EPA 8260	1	09/14/2011 23:58 CJD
1,2-Dichloropropane	ND	ug/l	EPA 8260	1	09/14/2011 23:58 CJD
Ethylbenzene	ND	ug/l	EPA 8260	1	09/14/2011 23:58 CJD
2-Hexanone	ND	ug/l	EPA 8260	2	09/14/2011 23:58 CJD
Isopropylbenzene	ND	ug/l	EPA 8260	1	09/14/2011 23:58 CJD
Methyl Acetate	ND	ug/l	EPA 8260	1	09/14/2011 23:58 CJD
4-Methyl-2-pentanone	ND	ug/l	EPA 8260	2	09/14/2011 23:58 CJD
Methyl-t-butyl ether	ND	ug/l	EPA 8260	1	09/14/2011 23:58 CJD
Methylcyclohexane	ND	ug/l	EPA 8260	1	09/14/2011 23:58 CJD
Styrene	ND	ug/l	EPA 8260	1	09/14/2011 23:58 CJD
1,1,1,2-Tetrachloroethane	ND	ug/l	EPA 8260	1	09/14/2011 23:58 CJD
1,1,2,2-Tetrachloroethane	ND	ug/l	EPA 8260	1	09/14/2011 23:58 CJD
Tetrachloroethene	1.0	ug/l	EPA 8260	1	09/14/2011 23:58 CJD
Toluene	ND	ug/l	EPA 8260	1	09/14/2011 23:58 CJD
trans-1,2-Dichloroethene	ND	ug/l	EPA 8260	1	09/14/2011 23:58 CJD
trans-1,3-Dichloropropene	ND	ug/l	EPA 8260	1	09/14/2011 23:58 CJD
1,1,2-Trichlo-1,2,2-trifluoroethane	ND	ug/l	EPA 8260	1	09/14/2011 23:58 CJD
1,2,3-Trichlorobenzene	ND	ug/l	EPA 8260	1	09/14/2011 23:58 CJD
1,2,4-Trichlorobenzene	ND	ug/l	EPA 8260	1	09/14/2011 23:58 CJD
1,1,1-Trichloroethane	ND	ug/l	EPA 8260	1	09/14/2011 23:58 CJD
1,1,2-Trichloroethane	ND	ug/l	EPA 8260	1	09/14/2011 23:58 CJD
Trichloroethene	ND	ug/l	EPA 8260	1	09/14/2011 23:58 CJD
Trichlorofluoromethane	ND	ug/l	EPA 8260	1	09/14/2011 23:58 CJD
Vinyl chloride	ND	ug/l	EPA 8260	1	09/14/2011 23:58 CJD
Xylene, Total	ND	ug/l	EPA 8260	1	09/14/2011 23:58 CJD
					/ /
Surrogate Spike					/ /
4-Bromofluorobenzene	101	%	EPA 8260		09/14/2011 23:58 CJD
Dibromofluoromethane	98	%	EPA 8260		09/14/2011 23:58 CJD
Toluene-d8	97	%	EPA 8260		09/14/2011 23:58 CJD

MARTEL

MARTEL NO. 83684 | CLIENT SAMPLE IDENTIFICATION 0003TB Trip Blank | Sample Date/Time 08/25/2011 09:20

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Volatile Organic Compounds			EPA 8260B		09/14/2011 23:19 CJD
Acetone	ND	ug/l	EPA 8260	2	09/14/2011 23:19 CJD
Benzene	ND	ug/l	EPA 8260	1	09/14/2011 23:19 CJD
Bromochloromethane	ND	ug/l	EPA 8260	1	09/14/2011 23:19 CJD
Bromodichloromethane	ND	ug/l	EPA 8260	1	09/14/2011 23:19 CJD
Bromoform	ND	ug/l	EPA 8260	1	09/14/2011 23:19 CJD
Bromomethane	ND	ug/l	EPA 8260	1	09/14/2011 23:19 CJD
2-Butanone	ND	ug/l	EPA 8260	2	09/14/2011 23:19 CJD
Carbon disulfide	ND	ug/l	EPA 8260	1	09/14/2011 23:19 CJD
Carbon tetrachloride	ND	ug/l	EPA 8260	1	09/14/2011 23:19 CJD
Chlorobenzene	ND	ug/l	EPA 8260	1	09/14/2011 23:19 CJD
Chloroethane	ND	ug/l	EPA 8260	1	09/14/2011 23:19 CJD
Chloroform	ND	ug/l	EPA 8260	1	09/14/2011 23:19 CJD
Chloromethane	ND	ug/l	EPA 8260	1	09/14/2011 23:19 CJD
cis-1,2-Dichloroethene	ND	ug/l	EPA 8260	1	09/14/2011 23:19 CJD
cis-1,3-Dichloropropene	ND	ug/l	EPA 8260	1	09/14/2011 23:19 CJD
Cyclohexane	ND	ug/l	EPA 8260	1	09/14/2011 23:19 CJD
1,2-Dibromo-3-chloropropane	ND	ug/l	EPA 8260	5	09/14/2011 23:19 CJD
Dibromochloromethane	ND	ug/l	EPA 8260	1	09/14/2011 23:19 CJD
1,2-Dibromoethane	ND	ug/l	EPA 8260	1	09/14/2011 23:19 CJD
1,2-Dichlorobenzene	ND	ug/l	EPA 8260	1	09/14/2011 23:19 CJD
1,3-Dichlorobenzene	ND	ug/l	EPA 8260	1	09/14/2011 23:19 CJD
1,4-Dichlorobenzene	ND	ug/l	EPA 8260	1	09/14/2011 23:19 CJD
Dichlorodifluoromethane	ND	ug/l	EPA 8260	1	09/14/2011 23:19 CJD
1,1-Dichloroethane	ND	ug/l	EPA 8260	1	09/14/2011 23:19 CJD
1,2-Dichloroethane	ND	ug/l	EPA 8260	1	09/14/2011 23:19 CJD
1,1-Dichloroethene	ND	ug/l	EPA 8260	1	09/14/2011 23:19 CJD
Dichloromethane	1.7*	ug/l	EPA 8260	1	09/14/2011 23:19 CJD
1,2-Dichloropropane	ND	ug/l	EPA 8260	1	09/14/2011 23:19 CJD
Ethylbenzene	ND	ug/l	EPA 8260	1	09/14/2011 23:19 CJD
2-Hexanone	ND	ug/l	EPA 8260	2	09/14/2011 23:19 CJD
Isopropylbenzene	ND	ug/l	EPA 8260	1	09/14/2011 23:19 CJD
Methyl Acetate	ND	ug/l	EPA 8260	1	09/14/2011 23:19 CJD
4-Methyl-2-pentanone	ND	ug/l	EPA 8260	2	09/14/2011 23:19 CJD
Methyl-t-butyl ether	ND	ug/l	EPA 8260	1	09/14/2011 23:19 CJD
Methylcyclohexane	ND	ug/l	EPA 8260	1	09/14/2011 23:19 CJD
Styrene	ND	ug/l	EPA 8260	1	09/14/2011 23:19 CJD
1,1,1,2-Tetrachloroethane	ND	ug/l	EPA 8260	1	09/14/2011 23:19 CJD
1,1,2,2-Tetrachloroethane	ND	ug/l	EPA 8260	1	09/14/2011 23:19 CJD
Tetrachloroethene	ND	ug/l	EPA 8260	1	09/14/2011 23:19 CJD
Toluene	ND	ug/l	EPA 8260	1	09/14/2011 23:19 CJD
trans-1,2-Dichloroethene	ND	ug/l	EPA 8260	1	09/14/2011 23:19 CJD
trans-1,3-Dichloropropene	ND	ug/l	EPA 8260	1	09/14/2011 23:19 CJD
1,1,2-Trichlo-1,2,2-trifluoroethane	ND	ug/l	EPA 8260	1	09/14/2011 23:19 CJD
1,2,3-Trichlorobenzene	ND	ug/l	EPA 8260	1	09/14/2011 23:19 CJD

MARTEL

MARTEL NO. 83684 0003TB Trip Blank

CLIENT SAMPLE IDENTIFICATION

Sample Date/Time 08/25/2011 09:20

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
1,2,4-Trichlorobenzene	ND	ug/l	EPA 8260	1	09/14/2011 23:19 CJD
1,1,1-Trichloroethane	ND	ug/l	EPA 8260	1	09/14/2011 23:19 CJD
1,1,2-Trichloroethane	ND	ug/l	EPA 8260	1	09/14/2011 23:19 CJD
Trichloroethene	ND	ug/l	EPA 8260	1	09/14/2011 23:19 CJD
Trichlorofluoromethane	ND	ug/l	EPA 8260	1	09/14/2011 23:19 CJD
Vinyl chloride	ND	ug/l	EPA 8260	1	09/14/2011 23:19 CJD
Xylene, Total	ND	ug/l	EPA 8260	1	09/14/2011 23:19 CJD
					/ /
Surrogate Spike					/ /
4-Bromofluorobenzene	104	%	EPA 8260		09/14/2011 23:19 CJD
Dibromofluoromethane	98	%	EPA 8260		09/14/2011 23:19 CJD
Toluene-d8	97	%	EPA 8260		09/14/2011 23:19 CJD

1025 Cromwell Bridge Road - Baltimore, Maryland 21286
PH 410-825-7790 FAX 410-821-1054 EMAIL: martel@martellabs.com

All Procedures used are in accordance with the following methods:

"Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, U.S. EPA Washington D.C., Third Edition, December 1996. * Note: Dichloromethane detected is a result of laboratory contamination. Dichloromethane was not found in the field samples.

As a NELAP accredited laboratory, Martel certifies that all applicable test results meet NELAC requirements.
All samples tested were in acceptable condition, unless otherwise noted.
The results presented herein relate only to the samples or items tested.

T. Meraskoff
Project Manager

CHAIN OF CUSTODY / SAMPLE INFORMATION FORM

Martel Laboratories JDS Inc. • 1025 Cromwell Bridge Road • Baltimore, MD 21286 • (410) 825-7790 • FAX (410) 821-1054

Martel Log # 83684 Client Code GEOTRA

Client Name/Phone/FAX: TETRA TECH GEO 703-444-7000

Client Address: 21335 SIGNAL HILL PLAZA STE 100 STERLING VA 20164

Invoice Address: SAME AS ABOVE

Sampler JUSTIN COOPER

Project Name/# TNC FALL 2011 SAMPLING

Contract/P.O Number 117-5805-006.01

Sample Turnaround Time STANDARD

Station No./ Sample ID	Station Location	Matrix	Container Description/ Preservation Status	Potentially Hazardous?	# of Containers	Date	Time	Analyses Required/Comments
INF-9-8-11	INF-9-8-11	AQ	HCl	YES	3	9/8/11	11:15	8260-25 VOCs
EFF-9-8-11	EFF-9-8-11	AQ	HCl	YES	3	9/8/11	11:30	8260-25 VOCs
TB	TB	AQ	—	NO	2	8/25/11	920	

Transferred by:	Received by:	Date	Time
[signature] 9/8/11 13:00	T. Heelum	9/9/11	920
Transferred by:	Received by:	Date	Time
Transferred by:	Received by:	Date	Time

Cooler Receipt Information (LAB USE ONLY)

Sufficient ice? - Yes/No If No, temp.= _____

Sample containers pres'd? - Yes/No If No, explain

Custody Seal present/intact? - Yes/No N/A

Initials: TL Date: 9/9/11

PUBLIC NOTICE BILLING INFORMATION

I hereby authorize the Department of Environmental Quality to have the cost of publishing a public notice billed to the Agent/Department shown below. The public notice will be published once a week for two consecutive weeks in accordance with 9 VAC 25-31-290.C.2

Agent/Department to be billed: Foulger-Pratt Management, Inc.

Owner: The Nature Conservancy

Agent/Department Address: 9302 Lee Highway, Suite G-100

Fairfax, VA 22031

Agent's Telephone No.: (703) 273-1427

Printed Name: Maggie Savage

Authorizing Agent – Signature: Maggie Savage

Date: 5/3/12

VPA Permit No. VA0089796

The Nature Conservancy
4245 North Fairfax Drive, Suite 100
Arlington, VA 22203-1606

Please return to:

Douglas Frasier
VA-DEQ, NVRO
13901 Crown Court
Woodbridge, VA 22193-1453
Fax: (703)583-3834