Point-Of Entry Water Treatment Systems Work Plan

Mohonk Road Industrial Plant Site

Work Assignment Number D003821-3.0

Prepared for:



SUPERFUND STANDBY PROGRAM New York State Department of Environmental Conservation

50 Wolf Road Albany, New York 12233

Prepared by:

Rust Environment & Infrastructure

12 Metro Park Road Albany, New York 12205

TABLE OF CONTENTS

Chapt	ter	Pag	e
1.0	INTRODUCTION		1
2.0	SCOPE OF WORK		1
3.0	STAFFING PLAN		2
4.0	BUDGET		3



APPROVED

1.0 INTRODUCTION

Rust Environment and Infrastructure (Rust), was issued Work Assignment #D003821-3, under the New York State Department of Environmental Conservation (NYSDEC) State Superfund Standby Program. The original Work Assignment, (#D002520-26- IRWA) issued in 1994 provided for the installation, operation, monitoring and maintenance of point-of-entry water treatment systems on contaminated residential and commercial water supply wells in the Hamlet of High Falls, New York. Since October 1995, the ongoing operation and maintenance is being conducted under Work Assignment # D002520-33.

This Work Plan has been prepared in conjunction with, and as an extension to the existing Work Plan D002520-33, dated August 1995 and incorporates by reference the applicable and on-going activities described therein.

This Work Plan will transfer the ongoing operation and maintenance costs from the original Work Plan to provide for uninterrupted service to the site for a projected time period of three years from the notice to proceed or until municipal water is provided to the site.

2.0 SCOPE OF WORK

To complete this work assignment, Rust will perform the work plan tasks as outlined in the original Workplan. The scope of work, including additional details on the individual tasks, assumptions and limitations are provided in attached NYSDEC Work Assignment Narrative. A Staffing Plan is provided in Section 3. M/WBE Utilization was reviewed from the existing workplan which included a subcontractor budget for reproduction and clerical work. No reproduction and clerical is necessary for the continuation of O&M services and have therefore not been included in the new workplan budget. The remaining subcontractors to be used are Phoenix Environmental Laboratories, who will provide continued analytical services on an as needed basis, and Rick Borne Plumbing, who will continue to provide emergency service to the site as necessary. The project budget is presented in Section 4.

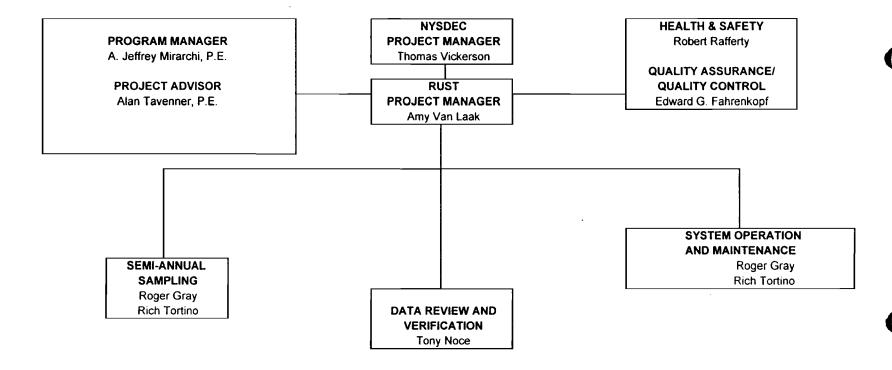
3.0 STAFFING PLAN

PROJECT ORGANIZATION

POINT OF ENTRY WATER TREATMEN T SYSTEMS OPERATION AND MAINTENANCE

Mohonk Road

WORK ASSIGNMENT NUMBER: D003821-3.0



PROJORG.XLS

Work Assignment Type of Contract: Cost Plus Fixed Fee

Site Name and Number:

Mohonk Road Industrial Plant Site Code #3-56-023

NYSDEC Project Manager:

Thomas J. Vickerson

Telephone:

(518) 457-7878

Fax:

(518) 457-7743

I. <u>Narrative:</u>

This site is located east of the Hamlet of High Falls in the Town of Marbletown, Ulster County. The facility manufactured metal shelves and display racks the production of which involved metal finishing, metal plating, powder coating, electrostatic painting, and welding.

There are 64 granular activated carbon (GAC) whole-house water treatment systems which have been installed and are being maintained on private, commercial, and municipal building drinking water wells which have been contaminated with volatile organic compounds (VOC) allegedly mishandled at the former Gelles Manufacturing facility.

The initial GAC systems were installed under IRWA #D002520-26 beginning in June 1994 and have been maintained under WA #D002520-33.0 since October 1995 by Rust Environment & Infrastructure, Inc. (Rust). The existing WA expires in March 1998. This WA is to provide for the continued and uninterrupted O&M of the GAC systems under the terms and conditions of Rust's new standby contract.

Rust shall be responsible for the O&M of the 64 existing GAC systems and any pretreatment systems which have been installed to date including periodic sampling and analysis for VOCs using EPA Method 601 or approved equal. To the extent possible, samples shall be delivered to the NYSDEC DER Laboratory at Saratoga for analysis.

Tasks have been carried over from the existing WA as follows:

Task 1. Develop Detailed Work Plan

Rust shall develop and submit for the Department's review and approval a detailed budget which shall be based on the Tasks in the existing WA as modified in the task descriptions listed below. It is assumed that the staffing plan, M/WBE/EEO utilization plan, and emergency service subcontractor will be the same as in the existing WA.

Task 2. Purchase and Install additional GAC Treatment Systems

Rust shall be responsible for the purchase and installation of up to 15 additional GAC systems which meet the specifications for the GAC systems presently in service under WA #D002520-33.0.

Task 3. Purchase and Install Additional Water Softeners or Green Sand Filters

Rust shall be responsible for the purchase and installation of up to 15 water softeners or green sand filters similar to those presently in service under WA #D002520-33.0. These systems will be installed only at the direction of the NYSDEC Project Manager and only to control water hardness, iron or manganese problems which adversely effect the proper operation of the GAC systems or where mineral problems in the raw water are unduly exacerbated by the GAC system.

Task 4. Operation and Maintenance

Rust shall be responsible for the proper operation and necessary maintenance of all existing and future GAC softener, and/or green sand filter systems. This task shall include the removal, replacement, and disposal, as required or appropriate, of all spent filters, GAC or other filter or treatment media plus manufacturers' recommended maintenance and/or periodic replacement of all parts of the installed treatment systems. Also included in this task is the maintenance of the UV unit and replacement of the UV bulb at the frequency recommended by the manufacturer.

Task 5. Sampling and Analysis

Rust shall sample every six months, or more frequently if approved by the NYSDEC Project Manager, raw water between filters and after filters. The samples shall be analyzed for VOCs by EPA Method 601, or approved equal. To the extent possible, samples shall be delivered to the NYSDEC DER Laboratory at the Saratoga Springs Tree Nursery location for analysis. If the DER cannot schedule the analyses, the samples may be sent to the approved subcontractor, Phoenix Environmental Labs, Inc., for analysis. At all sampling rounds, a sample of the fully treated water shall be collected from each GAC system for bacteria analysis by a subcontract lab.

Task 6. Emergency Service

Rust shall be responsible for emergency service calls to correct problems which may arise with the treatment systems. Rust shall provide all users of the treatment systems with a phone number for emergency service and advise all users that emergency service is available. It is anticipated that emergency service will, in most cases, be provided by the local plumber previously approved as a subcontractor under the existing WA.

Task 7 Reporting

Each time samples are taken or GAC media is changed, Rust shall record the meter reading.

Rust shall submit a semi-annual report to the NYSDEC Project Manager which shall include a summary of the analytical data from sampling rounds, water meter readings, and a summary of all routine and/or emergency service performed during the report period.

II. Level of Effort and Estimate of Cost

The below listed levels of effort and costs have been discussed and agreed to in principal by the Rust and NYSDEC Project managers:

Major Task	Description	LOE Est. Hrs.	Cost Estimate	Subcontractors
1.	Develop work plan	20	\$ 1,200	
2.	Purchase and install additional GAC systems	504	\$ 35,470	
3.	Purchase and install additional pretreatment systems	495	\$ 38,610	
4.	Operation and maintenance	3518	\$284 ,140	
5.	Sample and analysis	1524	\$ 92,190	\$40, 900
6.	Emergency service	345	\$ 21,575	\$17,325
7.	Reporting	570	\$ 34,880	
			\$ 508,065	\$58,225
		6976	\$ 566,290	

III. Period of Performance

This WA shall be completed in 36 months from the Notice to Proceed or when a permanent remedy is effected by others at Mohonk Road, whichever comes first.

IV. Work Plan Development Cost Authorization

Rust may expend up to \$1,200 for the development of the work plan for this WA.

V. Project Schedule

Actio	<u>n</u>	Completion Date
1.	Issue Work Assignment	January 16, 1998
2.	Return signed Work Assignment	January 30, 1998
3.	Submit final project work plan and budget	February 13, 1998
4.	DEC approval of final work plan and budget	February 20, 1998
5.	Notice to Proceed	February 27, 1998

4.0 BUDGET

Engineer: Rust Environment & Infrastructure of New York, P.C.

Site Name: Mohonk Road Industrial Plant (O & M)

Project No:

Site ID No: 3-54-023 Date Prepared: 1/27/98

RUST ENVIRONMENT & INFRASTRUCTURE OF NEW YORK, INC. SCHEDULE 2.11(a) SUMMARY OF WORK ASSIGNMENT PRICE

1	DIRECT SALARY COSTS (Schedules 2.10(a) and 2.11(b)	\$137,589.70
2	INDIRECT COSTS (Schedule 2.10(g))	\$214,639.93
3	DIRECT NON-SALARY COSTS (Schedules 2.10(d)(e)(f) and 2.11(c)(d)	\$125,900 00
	SUBCONTRACT COSTS COST-PLUS-FIXED-FEE SUBCONTRACTS (Schedule 2.10(e) and 2.11(e))	
NAME OF SUBCONTRACTOR	SERVICES TO BE PERFORMED	SUBCONTRACT PRICE
4	TOTAL COST-PLUS-FIXED-FEE SUBCONTRACTS	\$0.00
	UNIT PRICE SUBCONTRACTS (Schedule 2.10(f) and 2.11(f))	
NAME OF SUBCONTRACTOR	SERVICES TO BE PERFORMED	SUBCONTRACT PRICE
Phoenix Rick Borne Plumbing	Laboratory Services Emergency Plumbing Services	\$40,900.00 \$17,325.00
5	TOTAL UNIT PRICE SUBCONTRACTS	\$58,225.00
6	TOTAL SUBCONTRACT COSTS (Lines 4 + 5)	\$58,225.00
7	FIXED FEE (Schedule 2.10(h))	\$29,939.51
l 8 TO	TAL WORK ASSIGNMENT PRICE (Lines 1 + 2+ 3+ 6 + 7)	\$566,294.14

Engineer: Rust Environment & Infrastructure of New York, P.C.

Site ID No: 3-54-023

Site Name: Mohonk Road Industrial Plant (O & M)

Project No:

Date Prepared: 1/27/98

RUST ENVIRONMENT & INFRASTRUCTURE OF NEW YORK, INC. TABLE 1.0 SUMMARY OF BUDGETED PROJECT COSTS

		Indirect	Fixed					TOTAL
TASK	Direct	Costs	Fee	Travel &	Other	Fixed Fee (d)	Unit Price (e)	COLUMNS
	Labor (a)	1.560%	8.5%	Subsistence(b)	Direct Costs(c)	Subcontractor	Subcontractor	(1A-5)
Task 1 - Develop Workplan	\$432.94	\$675.39	\$94.21	\$0.00	\$0.00	\$0 00	\$0.00	\$1,202.54
Task 2 - Purchase and Install GAC Systems	\$9,792.56	\$15,276.39	\$2,130.86	\$620.00	\$11,550.00	\$0.00	\$0.00	\$39,369.81
Task 3 - Purchase and Install Pre-Treatment	\$9,519.50	\$14,850.42	\$2,071.44	\$ 620.00	\$7,650	\$0.00	\$0.00	\$ 34,711. 3 6
Task 4 - Operation and Maintenance	\$68,835.04	\$107,382.66	\$14,978.50	\$15,820.00	\$77,125.00	\$0.00	\$0.00	\$284,141.20
Task 5 - Sample and Analysis	\$28,684.16	\$44,747.29	\$6,241.67	\$11,790.00	\$725.00	\$0.00	\$40,900.00	\$133,088.12
Task 6 - Emergency Service	\$7,767.05	\$12,116.60	\$1,690.11	\$0 00	\$0.00	\$0.00	\$17,325.00	\$38,898.76
Task 7 - Reporting	\$12,558 45	\$19,591.18	\$2,732.72	\$0.00	\$0.00	\$0.00	\$0.00	\$34,882.35
								_
то	TALS \$137,589.7	\$214,639.93	\$29,939.51	\$28,850.00	\$97,050.00	\$0.00	\$58,225.00	\$566,294.14

Engineer: Rust Environment & Infrastructure of New York, P.C.

Site ID No: 3-54-023

Site Name: Mohonk Road Industrial Plant (O & M)

Project No:

Date Prepared: 1/27/98

RUST ENVIRONMENT & INFRASTRUCTURE OF NEW YORK, INC. SCHEDULE 2.11(b-1) DIRECT ADMINISTRATIVE LABOR HOURS BUDGETED

LABOR CLASSIFICATION AVERAGE RAW LABOR RATE	IX \$50.32	VIII \$47.88	VII \$39.87	VI \$32.46	V \$28.65	IV \$25.41	III \$20.48	II \$16.63	l \$11.97	LABOR HOURS	DIRECT LABOR
Task 1 - Develop Workplan Task 2 - Purchase and Install GAC Systems Task 3 - Purchase and Install Pre-Treatment Task 4 - Operation and Maintenance Task 5 - Sample and Analysis Task 6 - Emergency Service Task 7 - Reporting					12.00		20.00 90.00			20.00 0.00 0.00 0.00 0.00 0.00 102.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00
TOTAL LABOR HOURS	0	0	0	0	12	0	110	0	0	122	\$2,596.60

Subject to contract allowability, project adminsitrative hours would include but not necessarily be limited to the following activities:

- 1. Work Plan Development
- Conflict of Interest Check
- Develop budget schedules and supporting documentation
- 2. Review work assignment (WA) progress
- Conduct progress reviews
- Prepare monthly project report and update WA progess schedule
- M/WBE Activities
- Program Management
- Manage Subcontracts

- 3. CAP Preparation
- Prepare monthly cost control report and CAP
- Oversee CAP preparation
- 4. Miscellaneous
- NSPE List Updates
- Equipment use and inventory
- Word Processing and Report Preparation

Contract/Project administration hours would not include activities such as:

- 1. QA/QC reviews
- 2. Technical oversight by management
- 3. Develop subcontracts
- 4. Work plan development (other than COI and budget preparation)
- 5. Review of deliverables

MOHON211,XLS\211-B1 1/27/98

Engineer: Rust Environment & Infrastructure of New York, P.C.

Site ID No: 3-54-023

Site Name: Mohonk Road Industrial Plant (O & M)

Project No:

Date Prepared: 1/27/98

DETAILED BREAKDOWN OF

DIRECT ADMINISTRATIVE LABOR HOURS BUDGETED ON SCHEDULE 2.11(b-1)

ADMINISTRATIVE TASKS	Con Che	flict o		_		edule uppor	s		Cond Revie	luct Pi	rogre	ss	Prepa Repor	view W re Mon t & Upo ess Sci	thy Prodate	oject	ent (V MBE Activ	:MB		ss	Prog Mana		ent		Mana Subc	ige ontrac	ats	
NSPE LEVEL	7	3	2	1	7	3	2	1	5	3	2	1	7	3	2	1	5	3	2	1	5	3	2	1	7	3	2	1
Task 1 Task 2 Task 3 Task 4 Task 5 Task 6 Task 7						20																						
SUBTOTALS	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0_	0
TOTAL (ALL NSPE)		0				20				0				0				0				0				0		

Engineer: Rust Environment & Infrastructure of New York, P.C.

Site ID No: 3-54-023

Site Name: Mohonk Road Industrial Plant (O & M)

Project No:

Date Prepared: 1/27/98

DETAILED BREAKDOWN OF

DIRECT ADMINISTRATIVE LABOR HOURS BUDGETED ON SCHEDULE 2.11(b-1)

ADMINISTRATIVE			CAP	Prepa	ration						Mise	cellan	eous											
TASKS	Prepa	are Mor	nthly		Over	see C	AP		NSP	E List			Equip	oment	Use		Work	Proc	essing	1	Total C	Direct		,
	Cost	Control	l		Prepa	aration	n		Upda	ites			and I	nvent	ory		and				Admini	stative		
	Repo	rt and (CAP		'								1		•		Repo	rt Pre	parati	on	Labor	Hours		
NSPE LEVEL	5	3	2	1	5	3	2	1	7	3	2	1	7	3	2	1	7	3	2	1	5	_3	2	1
Task 1]					ĺ						0	20	0	0
Task 2			ĺ	l				ĺ)									ĺ	l		0	0	0	0
Task 3				l	i i]									l		0	0	0	0
Task 4			l										ĺ	i .	!						0	0	0	0
Task 5			1	1						l			l		l	l		ĺ,	1	l .	0	0	0	0
Task 6													1								0	0	0	0
Task 7		80			12					10											12	90	0	٥
SUBTOTALS	0	80	0	0	12	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	12	110	0	0
TOTAL (ALL NSPE)		80				12				10				0				0				122		

Engineer: Rust Environment & Infrastructure of New York, P.C.

Site ID No: 3-54-023

Site Name: Mohonk Road Industrial Plant (O & M)

Project No:

Date Prepared: 1/27/98

RUST ENVIRONMENT & INFRASTRUCTURE OF NEW YORK, INC.

NSPE

SCHEDULE 2.11(b)

DIRECT LABOR HOURS BUDGETED

1998

LABOR CLASSIFICATION AVERAGE RAW LABOR RATE	IX \$51 47	VIII \$46 55	VII \$39.76	VI \$33.24	V \$29.45	IV \$25 13	III \$20.78	il \$17.42	l \$17 41	LABOR HOURS	DIRECT
Task 1 - Develop Workplan Task 2 - Purchase and Install GAC Systems Task 3 - Purchase and Install Pre-Treatment Task 4 - Operation and Maintenance Task 5 - Sample and Analysis Task 6 - Emergency Service Task 7 - Reporting	0 00 0 00 0 00 0 00 0 00 0 00	0 00 0 00 0 00 4 00 0 00 0 00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	8 00 5 00 40 00 8 00 20 00	0 00 0 00 0 00 0 00 0 00 0 00 20 00	18 00 60.00 60 00 450 00 100 00 80 00 150 00	0.00 100 00 100 00 700 00 400 00 15 00	0.00 50.00 50.00 0.00 0.00 0.00	218.00 215 00 1194 00 508 00 115 00	\$432 94 \$4,094 90 \$4 006 55 \$22,909 20 \$9,281 60 \$2,512 70 \$3,998 70
TOTAL LABOR HOURS	0	4	0	0	87	20	918	1330	100	2459	
TOTAL LABOR DOLLARS	\$0.00	\$186.20	\$0.00	\$0.00	\$2,562 15	\$502.60	\$19,076 04	\$23,168 60	\$1,741 00		\$47,236 59

Engineer: Rust Environment & Infrastructure of New York, P.C.

Site ID No: 3-54-023

Site Name: Mohonk Road Industrial Plant (O & M)

Project No:

Date Prepared: 1/27/98

RUST ENVIRONMENT & INFRASTRUCTURE OF NEW YORK, INC. NSPE SCHEDULE 2.11(b) DIRECT LABOR HOURS BUDGETED

1999

LABOR CLASSIFICATION AVERAGE RAW LABOR RATE	IX \$53.01	VIII \$47.94	VII \$40.95	VI \$34.24	\$30,33	IV \$25.88	III \$21 41	II \$17 93	1 \$17 93	LABOR HOURS	DIRECT
Task 1 - Develop Workplan Task 2 - Purchase and Install GAC Systems Task 3 - Purchase and Install Pre-Treatment Task 4 - Operation and Maintenance Task 5 - Sample and Analysis Task 6 - Emergency Service Task 7 - Reporting	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 4.00 0.00 0.00 0.00	0 00 0.00 0.00 0 00 0 00 0.00 0 00	0 00 0 00 0 00 0 00	0 00 8.00 5 00 8 00 8 00 20 00 4 00	0.00 0.00 0.00 0.00	40.00 40.00 450.00 100.00 80.00	0.00 40.00 40.00 700.00 400.00 15.00	0 00 40 00 40 00 0 00 0 00 0 00	128 00 125.00 1162 00 508 00	\$0 00 \$2,533 44 \$2,442 45 \$22,619 90 \$9,555.64 \$2,588 35 \$4,119 37
TOTAL LABOR HOURS	0	4	0	0	53:	20	860	1210	80	2227.00	
TOTAL LABOR DOLLARS	\$0.00	\$191.76	\$0.00	\$0.00	\$1,607.49	\$517.60	\$18,412.60	\$21,695.30	\$1,434.40		\$43,859.1

Engineer: Rust Environment & Infrastructure of New York, P.C.

Site ID No: 3-54-023

Site Name: Mohonk Road Industrial Plant (O & M)

Project No:

Date Prepared: 1/27/98

RUST ENVIRONMENT & INFRASTRUCTURE OF NEW YORK, INC. NSPE SCHEDULE 2.11(b) DIRECT LABOR HOURS BUDGETED

2000

LABOR CLASSIFICATION AVERAGE RAW LABOR RATE	IX \$54 60	VIII \$49.38	VII \$42 18	VI \$35.26	V \$31.24	IV \$26.66	III \$22 05	II \$18.48	\$18.47	LABOR HOURS	DIRECT LABOR
Task 1 - Develop Workplan Task 2 - Purchase and Install GAC Systems Task 3 - Purchase and Install Pre-Treatment Task 4 - Operation and Maintenance Task 5 - Sample and Analysis Task 6 - Emergency Service Task 7 - Reporting	0 00 0 00 0 00 0 00 0 00 0 00	0 00 0 00 0 00 4 00 0 00 0 00 4 00	0 00 0.00 0.00 0 00 0 00 0.00	0.00 0.00 0.00 0.00 0.00	8 00 5 00 8 00 8 00 20 00	0.00 0.00 0.00 0.00 0.00 0.00 20.00	40.00 40.00 450.00 100.00 80.00	0.00 60.00 60.00 700.00 400.00 15.00	50 00 0.00 0.00 0.00	158.00 155.00 1162.00 508.00 115.00	\$0.00 \$3,164.22 \$3,070.50 \$23,305.94 \$9,846.92 \$2,666.00 \$4,440.38
TOTAL LABOR HOURS	0	8	0	0	. 53	20	860	1250	100	2291.00	
TOTAL LABOR DOLLARS	\$0.00	\$395.04	\$0.00	\$0.00	\$1,655.72	\$533.20	\$18,963.00	\$23,100.00	\$1,847.00		\$46,493.96

Engineer: Rust Environment & Infrastructure of New York, P.C.

Site ID No: 3-54-023

Site Name: Mohonk Road Industrial Plant (O & M)

Project No:

Date Prepared: 1/27/98

RUST ENVIRONMENT & INFRASTRUCTURE OF NEW YORK, INC. NSPE SCHEDULE 2.11(b)

DIRECT LABOR HOURS BUDGETED TOTAL

LABOR CLASSIFICATION AVERAGE RAW LABOR RATE	ıx	VIII	VII	VI	V	IV	HII	íi .	ı	LABOR HOURS	DIRECT LABOR
Task 1 - Develop Workplan Task 2 - Purchase and Install GAC Systems Task 3 - Purchase and Install Pre-Treatment Task 4 - Operation and Maintenance Task 5 - Sample and Analysis Task 6 - Emergency Service Task 7 - Reporting	0.00 0.00 0.00 0.00 0.00 0.00	0 00 0 00 0.00 12 00 0 00 0.00 4 00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00	24.00 15.00 56.00 24.00	0.00 0 00 0 00 0 00	18 00 140.00 140 00 1350 00 300 00 240.00 450.00	0 00 200.00 200 00 2100 00 1200 00 45 00 45.00	0.00 140 00 140 00 0 00 0 00 0 00 0 00	20 00 504.00 495 00 3518.00 1524 00 345 00 571 00	\$432.94 \$9,792.56 \$9,519.50 \$68.835.04 \$28.684.16 \$7,767.05 \$12,558.45 \$0.00
TOTAL LABOR HOURS	0	16	0	0	193	60	2638	3790	280	6977	
TOTAL LABOR DOLLARS	\$0.00	\$773 00	\$0.00	\$0.00	\$5,825.36	\$1,553 40	\$56,451 64	\$67,963 90	\$5,022 40		\$137,589 70

Engineer: Rust Environment & Infrastructure of New York, P.C.

Site ID No: 3-54-023

Site Name: Mohonk Road Industrial Plant (O & M)
Project No:

Date Prepared: 1/27/98

RUST ENVIRONMENT & INFRASTRUCTURE OF NEW YORK, INC. SCHEDULE 2.11(c) DIRECT NON-SALARY COSTS

	ITEM	MAXIMUM REIMBURSEMENT RA (UNIT	ESTIMATED NUMBER OF UNITS	TOTAL ESTIMATED COST
Α.	In-House Costs Level D. Equipment Level C Equipment	\$13.00 \$27.00	Day Day		\$0.00 \$0.00
				Subtotal:	\$0.00
В.	Miscellaneous Travel Costs		Sec. (2018)		
	a. Air Fare c. Rental Car c. Personal Mileage d. Per Diem (Ulster County)	\$0.31	Flight Miles Miles	35,000	\$0.00 \$0.00 \$10,850.00
	Lodging Meals f. Miscellaneous Expenses (Tolls)	\$51.00 \$34.00	Day Day Acutal Cost	200 200	\$10,200.00 \$6,800.00 \$1,000.00
-3863				Subtotal:	\$28,850.00
				Total:	\$28,850.00

Site Name: Mohonk Road Industrial Plant (O & M)

Engineer: Rust Environment & Infrastructure of New York, P.C.

Project No:

Site ID No: 3-54-023

Date Prepared: 1/27/98

RUST ENVIRONMENT & INFRASTRUCTURE OF NEW YORK, INC. SCHEDULE 2.11(d)2 MAXIMUM REIMBURSEMENT RATES FOR CONSULTANT/SUBCONSULTANT-OWNED EQUIPMENT

TEM	PURCHASE PRICE (x 85%)	USAGE RATE (\$/Unit of Time)	ESTIMATED USAGE (Unit of Time)	ESTIMATED USAGE COST
Total Assignment 1 Low Value Equipment (LVE)		\$0.75 Field Hour	3800.00	\$2,850.00
2 HNU meter		\$7.00 Day	3300.33	\$0.00
		Total:		\$2,850.0
				4 2,500.0

Engineer: Rust Environment & Infrastructure of New York, P.C. Site ID No: 3-54-023

Site Name: Mohonk Road Industrial Plant (O & M)

Project No:

Date Prepared: 1/27/98

RUST ENVIRONMENT & INFRASTRUCTURE OF NEW YORK, INC. SCHEDULE 2.11(d)5 **CONSUMABLE SUPPLIES**

ITE	ЕМ	UNIT COST	TOTAL BUDGET COST	
1 2 3 4 5 6 7 8 9 10 11 12 13	Shipping (overnight samples) GAC Media (Cu-Ft) UV Bulbs Particle Filters Equipment Shipping FRP Tank 14" Filter Housing UV Unit (Ideal Horizon SV-7)no alarm Standard Plumbing Supply Other Plumbing Supply Consumables Water Softeners/Greensand Filters Salt (40# bag)	650 385 2500 30 60 30 20 64 64 10 1400	Actual Cost \$28.00 \$60.00 \$2.50 Actual Cost \$160.00 \$30.00 \$320.00 \$250.00 \$100.00 \$25.00 \$350.00 \$6.25	\$200.00 \$18,200.00 \$23,100.00 \$6,250.00 \$5,000.00 \$1,800.00 \$9,600.00 \$5,000.00 \$6,400.00 \$1,600.00 \$3,500.00 \$8,750.00
			Total:	\$94,200.00

Work Assignment No: D003821-3 Site Name: Mohonk Road Industrial Plant (O & M)

Engineer: Rust Environment & Infrastructure of New York, P.C.

Project No:

Site ID No: 3-54-023

Date Prepared: 1/27/98

RUST ENVIRONMENT & INFRASTRUCTURE OF NEW YORK, INC. SCHEDULE 2.11(f) UNIT PRICE SUBCONTRACTS

NAME OF SUBCONTRACTOR	SERVICES TO BE PERFORMED	SUBCONTRACT PRICE
Phoenix	Laboratory Services	\$40,900.00

		Maximum Re	eimbursement	Estimated	Total		
<u></u>	Item	Rate (Sp	ecify Unit)	No. of Units	Estimated Costs		
1. 2 3. 4.	VOC Analysis (Method 601) Total Coliform Analysis Metals (Fe and Mg) VOA vials	\$44.00 \$15.00 \$25.00 \$1.00	per sample per sample per sample per vial	700 450 30 2600	\$30,800 00 \$6,750.00 \$750.00 \$2,600.00		

Site Name: Mohonk Road Industrial Plant (O & M)

Engineer: Rust Environment & Infrastructure of New York, P.C.

Project No:

Site ID No: 3-54-023

Date Prepared: 1/27/98

RUST ENVIRONMENT & INFRASTRUCTURE OF NEW YORK, INC. SCHEDULE 2.11(f) UNIT PRICE SUBCONTRACTS

NAME OF SUBCONTRACTOR	SERVICES TO BE PERFORMED	SUBCONTRACT PRICE
Rick Borne Plumbing	Emergency Plumbing Services	\$17,325.00

-	Maximum Reimbursement	Estimated	Total			
Item	Rate (Specify Unit)	No. of Units	Estimated Costs			
Task 6 - Emergency Service						
1 Plumbing Services	\$45.00 per hour	385	\$17,325.00			

Engineer: Rust Environment & Infrastructure of New York, P.C.

Site ID No: 3-54-023

Site Name: Mohonk Road Industrial Plant (O & M)

Project No:

Date Prepared: 1/27/98

MONTHLY COST CONTROL REPORT SCHEDULE 2.11(h) SUMMARY OF LABOR HOURS

NUMBER OF DIRECT LABOR HOURS EXPENDED TO DATE/ ESTIMATED NUMBER OF DIRECT LABOR HOURS TO COMPLETION

LABOR CLASS		IX	,	∕III		VII		VI		V		IV		111		ii		1	TOTAL OF DIR LABOR	
TASK NO.	Ехр	Est.	Exp	Est.	Ехр	Est.	Ехр	Est.	Exp	Est.	Ехр	Est.	Ехр	Est.	Ехр	Est.	Ехр	Est.	Exp	Est.
1		0.0		0.0		0.0		0.0		2.0		0.0		18.0		0.0		0.0		20.0
2		0.0		0.0		0.0		0.0		24.0		0.0		140.0		200.0		140.0		504.0
3		0.0		0.0		0.0		0.0		15.0		0.0		140.0		200.0		140 0		495.0
4		0.0		12.0		0.0		0.0		56.0		0.0		1350.0		2100.0		0.0		3518.0
5		0.0		0.0		0.0		0.0		24.0		0.0		300.0		1200.0		0.0		1524.0
6		0.0		0.0		0.0		0.0		60.0		0.0		240.0		45.0		0.0		345.0
7		0.0		4.0		0.0		0.0		12.0		60.0		450.0		45.0		0.0		571.0
8		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0
9		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0
		,																		
TOTAL		0.0		16.0		0.0		0.0		193.0		60.0		2638.0		3790.0		280.0		6977.0

Site Name: Mohonk Road Industrial Plant (O & M)

Engineer: Rust Environment & Infrastructure of New York, P.C.

Project No:

Site ID No: 3-54-023

Date Prepared: 1/27/98

SCHEDULE 2.11(g)

MONTHLY COST CONTROL REPORT SUMMARY OF FISCAL INFORMATION

Total Assignment

Page 1 of 8

	Α	В	С	D	E	F	G	Н
						Estimated		
	Costs	Paid	Total	Total Costs	Estimated	Total Work		Estimated
Expenditure	Claimed	То	Disallowed	Incurred To	Costs To	Assignment	Approved	Under/(Over)
Category	This Period	Date	To Date	Date (A+B+C)	Completion	Price (A+B+E)	Budget	(G-F)
1 Direct Salary								
Costs							\$137,589.70	
2 Indirect]		1		
Costs (156%)							\$214,639.93	
3 Subtotal Direct								
Salary Costs and]					
Indirect Costs							\$352,229.63	
4 Travel							\$28,850.00	<u> </u>
5 Other Non-								
Salary Costs							\$97,050.00	
6 Subtotal Direct								
Non-Salary Costs							\$125,900.00	
7 Subcontractors							<u>\$58,225.00</u>	
8 Total Work					•			
Assignment Cost							\$536,354.63	
9 Fixed Fee					_		\$29,939.51	
10 Total Work				1				
Assignment Price							\$566,294.14	

Project Manager (Engineer)	
	-

Site Name: Mohonk Road Industrial Plant (O & M)

Engineer: Rust Environment & Infrastructure of New York, P.C.

Project No:

Site ID No: 3-54-023

Date Prepared: 1/27/98

SCHEDULE 2.11(g)
MONTHLY COST CONTROL REPORT
SUMMARY OF FISCAL INFORMATION

Task 1 - Develop Workplan

Page 2 of 8

	Α	В	С	D	E	F	G	н
				1 1		Estimated		
	Costs	Paid	Total	Total Costs	Estimated	Total Work		Estimated
Expenditure	Claimed	То	Disallowed	Incurred To	Costs To	Assignment	Approved	Under/(Over)
Category	This Period	Date	To Date	Date (A+B+C)	Completion	Price (A+B+E)	Budget	(G-F)
1 Direct Salary							_	_
Costs							\$432.94	
2 Indirect							_	_
Costs (156.4%)							\$675.39	
3 Subtotal Direct								
Salary Costs and				1		i 1		
Indirect Costs							\$1,108.33	
4 Travel					_		\$0.00	
5 Other Non-						_		
Salary Costs							\$0.00	
6 Subtotal Direct								
Non-Salary Costs				1			\$0.00	
7 Subcontractors							\$0.00	
8 Total Work							_	
Assignment Cost							\$1,108.33	
9 Fixed Fee							\$94.21	_
10 Total Work					-			
Assignment Price					,		\$1,202.54	

Work Assignment No: D003821-3 Site Name: Mohonk Road Industrial Plant (O & M)

Engineer: Rust Environment & Infrastructure of New York, P.C. Project No:

Site ID No: 3-54-023 Date Prepared: 1/27/98

SCHEDULE 2.11(g)

MONTHLY COST CONTROL REPORT SUMMARY OF FISCAL INFORMATION

Task 2 - Purchase and Install GAC Systems

Page 3 of 8

	Α	В	С	D	E	F	G	н
						Estimated		
	Costs	Paid	Total	Total Costs	Estimated	Total Work		Estimated
Expenditure	Claimed	То	Disallowed	Incurred To	Costs To	Assignment	Approved	Under/(Over)
Category	This Period	Date	To Date	Date (A+B+C)	Completion	Price (A+B+E)	Budget	(G-F)
1 Direct Salary								
Costs							\$9.792.56	
2 Indirect								
Costs (156)							\$15,276.39	
3 Subtotal Direct								
Salary Costs and			i					
Indirect Costs							\$25,068.95	_
4 Travel							\$620.00	
5 Other Non-								
Salary Costs							\$7,650.00	
6 Subtotal Direct								
Non-Salary Costs							\$8,270.00	
7 Subcontractors							\$0.00	
8 Total Work								
Assignment Cost							\$33,338.95	
9 Fixed Fee							\$2,130.86	
10 Total Work								
Assignment Price							\$35,469.81	

Project Manager (Engineer)	Date

Site Name: Mohonk Road Industrial Plant (O & M)

Engineer: Rust Environment & Infrastructure of New York, P.C.

Project No:

Site ID No: 3-54-023

Date Prepared: 1/27/98

SCHEDULE 2.11(g)

MONTHLY COST CONTROL REPORT SUMMARY OF FISCAL INFORMATION

Task 3 - Purchase and Install Pre-Treatment

Page 4 of 8

	Α	В	С	D	E	F	G	Н
	1					Estimated		
	Costs	Paid	Total	Total Costs	Estimated	Total Work		Estimated
Expenditure	Claimed	To	Disallowed	Incurred To	Costs To	Assignment	Approved	Under/(Over)
Category	This Period	Date	To Date	Date (A+B+C)	Completion	Price (A+B+E)	Budget	(G-F)
1 Direct Salary								
Costs							\$9,519.50	
2 Indirect								
Costs (156)							\$14,850.42	
3 Subtotal Direct								
Salary Costs and	1 1							
Indirect Costs	<u> </u>						\$24,369.92	
4 Travel							\$620.00	
5 Other Non-						_		
Salary Costs							\$11,550.00	
6 Subtotal Direct								
Non-Salary Costs	<u> </u>						\$12,170.00	_
7 Subcontractors							\$0.00	
8 Total Work								
Assignment Cost							\$36,539.92	
9 Fixed Fee							\$2,071.44	
10 Total Work								
Assignment Price							\$38,611.36	

Project Manager (Engineer)	Date
Project Manager (Engineer)	Date

Site Name: Mohonk Road Industrial Plant (O & M)

Engineer: Rust Environment & Infrastructure of New York, P.C

Project No:

Site ID No: 3-54-023

Date Prepared: 1/27/98

SCHEDULE 2.11(g)

MONTHLY COST CONTROL REPORT SUMMARY OF FISCAL INFORMATION

Task 4 - Operation and Maintenance

Page 5 of 8

	A	В	С	D	E	F	G	н
						Estimated		
	Costs	Paid	Total	Total Costs	Estimated	Total Work		Estimated
Expenditure	Claimed	То	Disallowed	Incurred To	Costs To	Assignment	Approved	Under/(Over)
Category	This Period	Date	To Date	Date (A+B+C)	Completion	Price (A+B+E)	Budget	(G-F)
1 Direct Salary								
Costs						l i	\$68,835. 04	
2 Indirect								
Costs (156)							\$107,382.66	
3 Subtotal Direct								
Salary Costs and						i I		
Indirect Costs							\$176,217.70	
4 Travel							\$15,820.00	
5 Other Non-								
Salary Costs							\$77,125.00	
6 Subtotal Direct								
Non-Salary Costs	İ						\$92,945.00	
7 Subcontractors							\$0.00	
8 Total Work								
Assignment Cost							\$269,162.70	
9 Fixed Fee							\$14,978.50	
10 Total Work								
Assignment Price							\$284,141.20	

Project Manager (Engineer)	Date

Site Name: Mohonk Road Industrial Plant (O & M)

Engineer: Rust Environment & Infrastructure of New York, P.C.

Project No:

Site ID No: 3-54-023

Date Prepared: 1/27/98

SCHEDULE 2.11(g)
MONTHLY COST CONTROL REPORT

SUMMARY OF FISCAL INFORMATION

Task 5 - Sample and Analysis

Page 6 of 8

	A	В	С	D	E	F	G	Н
]			Estimated		
	Costs	Paid	Total	Total Costs	Estimated	Total Work		Estimated
Expenditure	Claimed	То	Disallowed	Incurred To	Costs To	Assignment	Approved	Under/(Over)
Category	This Period	Date	To Date	Date (A+B+C)	Completion	Price (A+B+E)	Budget	(G-F)
1 Direct Salary								
Costs			<u> </u>				\$28,684.16	
2 Indirect								
Costs (156)							\$44,747.29	
3 Subtotal Direct								
Salary Costs and								
Indirect Costs	Í						\$73,431.45	
4 Travel							\$11,790.00	-
5 Other Non-								
Salary Costs	l i						\$725.00	
6 Subtotal Direct		_						
Non-Salary Costs							\$12,515.00	
7 Subcontractors							\$40,900.00	
8 Total Work						,		
Assignment Cost							\$126,846.45	
9 Fixed Fee							\$6,241.67	
10 Total Work								
Assignment Price							\$133,088.12	_

Project Manager (Engineer)

Date

Site Name: Mohonk Road Industrial Plant (O & M)

Engineer: Rust Environment & Infrastructure of New York, P.C.

Project No:

Site ID No: 3-54-023

Date Prepared: 1/27/98

SCHEDULE 2.11(g)

MONTHLY COST CONTROL REPORT SUMMARY OF FISCAL INFORMATION

Task 6 - Emergency Service

Page 7 of 8

	A	В	¢	D	E	F	G	н
]					Estimated		
	Costs	Paid	Total	Total Costs	Estimated	Total Work		Estimated
Expenditure	Claimed	То	Disallowed	Incurred To	Costs To	Assignment	Approved	Under/(Over)
Category	This Period	Date	To Date	Date (A+B+C)	Completion	Price (A+B+E)	Budget	(G-F)
1 Direct Salary								
Costs							\$7,767.05	
2 Indirect						·		
Costs (156)							\$12,116.60	
3 Subtotal Direct								
Salary Costs and								
Indirect Costs							\$19,883.65	
4 Travel							\$0.00	
5 Other Non-								
Salary Costs		_					\$0.00	
6 Subtotal Direct								
Non-Salary Costs							\$0.00	
7 Subcontractors							\$17,325.00	
8 Total Work								
Assignment Cost							\$37,208.65	
9 Fixed Fee							\$1,690.11	
10 Total Work								
Assignment Price							\$38,898.76	

Project Manager (Engineer)

Date

Engineer: Rust Environment & Infrastructure of New York, P.C.

Site ID No: 3-54-023

Site Name: Mohonk Road Industrial Plant (O & M)

Project No:

Date Prepared: 1/27/98

SCHEDULE 2.11(g)
MONTHLY COST CONTROL REPORT
SUMMARY OF FISCAL INFORMATION

Task 7 - Reporting

Page 8 of 8

	Α	В	С	D	E	F	G	Н
				1		Estimated		
	Costs	Paid	Total	Total Costs	Estimated	Total Work		Estimated
Expenditure	Claimed	То	Disallowed	Incurred To	Costs To	Assignment	Approved	Under/(Over)
Category	This Period	Date	To Date	Date (A+B+C)	Completion	Price (A+B+E)	Budget	(G-F)
1 Direct Salary								
Costs							\$12,558.45	
2 Indirect								
Costs (156)							\$19,591.18	
3 Subtotal Direct								
Salary Costs and	1							
Indirect Costs			<u> </u>				\$32,149.63	
4 Travel							\$0.00	
5 Other Non-								
Salary Costs							\$0.00	
6 Subtotal Direct								
Non-Salary Costs							\$0.00	
7 Subcontractors							\$0.00	
8 Total Work								
Assignment Cost			<u></u>				\$32,149.63	
9 Fixed Fee							\$2,732.72	
10 Total Work								
Assignment Price							\$34,882.35	