

Operation, Maintenance and Monitoring Plan
April 2007

P52
6/1/07
PLK (6/1/07)

Kingsbury Landfill
Site 5-58-008

Work Assignment No.
D004445-18

Prepared for:



SUPERFUND STANDBY PROGRAM
New York State
Department of Environmental Conservation
625 Broadway
Albany, New York 12233

Prepared by:

Earth Tech Northeast, Inc.
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1.0 INTRODUCTION

1.1 GENERAL

This document is the Leachate Treatment System Operation, Maintenance and Monitoring (OM&M) Work Plan for the Kingsbury Landfill Site (Site No. 5-58-008), Town of Kingsbury, Washington County, New York. Work Plan development and execution is being performed under Work Assignment No. D004445-18 of the State Superfund Standby Contract between New York State Department of Environmental Conservation (NYSDEC) and Earth Tech. Earth Tech has identified Iyer Environmental Group, PLLC (IEG) as a primary subcontractor to perform technical oversight, and plant operation and reporting services on this project.

The purpose of the Work Plan is to outline the activities to be undertaken over a four-year period for this Work Assignment (WA), and to identify the project team, project schedule, the anticipated utilization of minority-owned and woman-owned businesses (M/WBE), and the anticipated level of effort and budget. Task 1 of this Work Assignment is development of this Work Plan, which included a site visit, document review and a scoping meeting and discussions. Task 2 concerns plant operation; Task 3 is plant maintenance, consisting entirely of system improvements and upgrades, which will largely be performed before and during the first operating season in 2007. Task 4 encompasses onsite groundwater monitoring, whereas Task 5 includes preparation of all reports associated with plant operation and groundwater monitoring.

1.2 SITE DESCRIPTION AND BACKGROUND

The Kingsbury Landfill is an 18-acre, inactive landfill that operated as a municipal dump from 1930 to 1985. Approximately 1,900 tons of hazardous waste was discarded by the General Electric Company (GE) at this landfill in the past, and represented approximately 87% of the total amount of hazardous waste that had been disposed of in this landfill. Other hazardous wastes included PCB-laden and oil impregnated rolls of paper. Prior to remediation, leachate generated at this site reached several surface water bodies southwest of the site including the feeder/tow canal, Cutter Pond and a swamp. Off-site investigations revealed contamination of the sediments in these areas with PCBs, trichloroethene, cis-1,2-dichloroethene and vinyl chloride.

Remediation of the landfill was completed by GE in 1989 in a settlement with the NYSDEC, and involved the construction of a leachate collection system, a soil-bentonite groundwater cut-off wall, a low permeability clay cap, and the installation of groundwater monitoring wells. The on-site remediation eliminated exposure to contaminants from the landfill. In 1988 and 1989, a wider drain system for leachate collection and an Interim Leachate Treatment System (ILTS) were installed to pump and treat leachate from the landfill. This system was designed to reduce the groundwater elevation within the landfill and to maintain the integrity of the cap at the southern end of the landfill.

Leachate is allowed to accumulate (i.e., is stored) in the landfill until it reaches an action level of 202 feet elevation, above which leachate may escape over the top of the cut-off wall. In the treatment system, leachate from the landfill is first aerated to oxidize the iron, then chemically treated with sodium aluminate and a polymer to remove the precipitated iron, and finally polished by activated carbon to remove PCBs. The ILTS was operated by Earth Tech and IEG in 2002, 2003 and 2005, removing and treating approximately two million gallons of leachate in each 3-month operating season. Due to the many operational problems encountered in earlier years, the treatment system was renovated in 1995, and process improvements were made by Earth Tech/IEG in the seasons mentioned above.

2.0 SCOPE OF WORK

2.1 TASK 1 –WORK PLAN DEVELOPMENT

Earth Tech has developed this work plan for NYSDEC's approval incorporating all work required of Earth Tech and IEG in fulfilling this work assignment. This Work Plan includes a description of the major tasks, project schedule, a staffing plan and an MBE/WBE Utilization Plan. A Level of Effort estimate and associated costs for completing all tasks and required deliverables are submitted with this Work Plan.

2.2 TASK 2 - OPERATION OF THE LEACHATE TREATMENT SYSTEM

The NYSDEC has not specified a leachate-removal target, but Earth Tech anticipates a 3-month operating season in each of the next four years, during which up to two (2) million gallons of leachate may be pumped from the landfill, and then treated and discharged into the feeder canal.

Two technicians will be present on site for two eight-hour days per week during each operating season. Influent and effluent water samples will be collected on a monthly basis, and will be analyzed for the parameters indicated on Table 1. The discharge-permit appears to require analysis of one effluent sample per year for PCB congeners. Unless directed to the contrary by the NYSDEC, Earth Tech will annually submit a sample for congeners analysis. Treatment-system clarifier sludge will be sampled and characterized for annual disposal. Approximately 10 drums of non-hazardous waste (bag filters, virgin carbon), currently on site, will be disposed of during the first operating year. Site utilities (water, power and telephone) will be transferred to Earth Tech, and will be paid for under the Work Assignment. Earth Tech intends to use an M/WBE analytical laboratory for analysis of water and sludge samples.

The landfill and surrounding areas will also be inspected on a weekly basis. Site security will be assessed through inspection of the site fence, locks and gates. Any security concerns will be relayed to the NYSDEC.

Earth Tech/IEG will provide for all consumables including fuels, chemicals, supplies and lubricants required for normal plant operation. Earth Tech/IEG will arrange for the disposal of all "household-type" waste and any other waste generated at the facility during the operating seasons within the contract period.

2.3 TASK 3: MAINTENANCE OF THE LEACHATE TREATMENT SYSTEM

Earth Tech will maintain the leachate treatment plant facility by providing several repairs and upgrades. Earth Tech plans to subcontract this work to Aztech Technologies, Inc., a WBE firm that retains a spills contract with the NYSDEC. Repairs will likely include: centralizing the controls for the leachate plant (combining several unit operations into a single control panel); hard-piping high-pressure air to the sludge-transfer pumps; repairing the air compressor; changing out the carbon in the carbon filter and upgrading to a pressure filter; replacing the pipe bridge with a more durable structure, and modifying pipe entry into the building; sand blasting and painting the clarifier and acid-wash tanks inside and out; evaluating the possible use of sand filters to replace the bag filters, and changing the media in the clarifier.

2.4 TASK 4: GROUNDWATER MONITORING

Earth Tech will review the Long Term Monitoring (LTM) plan to be provided by DER, and continue to monitor all monitoring wells on a five quarter basis, with a maximum of three sampling events during this

WA. Using a DER-provided sheet as a guide, an inventory of the condition of all site wells will be performed prior to each sampling event. Water level measurements will be made at all accessible wells at that time, and a water table contour map will be prepared using those data. A subset of the 34 or so site wells will be sampled every five quarters. The nine wells to be sampled include MW 90-10C, GMW 4, MW 90-14, GMW 2, GMW 3, MW 90-6C, MW 90-2C, GMW 6 and GMW 1. Each well will be analyzed for the constituents shown on Table 1. Purge water will be wasted on the ground in the immediate vicinity of each well. Prior to the start of each sampling event, Earth Tech will rely on contact information to be provided by DER to notify the property owners that access will be required. Earth Tech intends to subcontract the field aspects of this task to the MBE firm Star Environmental, and groundwater analytical work to an M/WBE laboratory.

2.5 TASK 5: REPORTING

Three brief *monthly letter reports* will be prepared during each operating season by Earth Tech/IEG and will be submitted to the NYSDEC project manager. The monthly report will contain effluent monitoring data, a summary of the ILTS performance, materials used, maintenance/repairs performed, improvements to the system, and any other relevant activity that occurred during the month. Appropriate information required under the SPDES permit (equivalent) will be reported to the NYSDEC project manager and others, as specified in the Effluent Limitations and Monitoring Requirements (ELMR).

Four *annual review reports* will be also be prepared, summarizing each year's activities and evaluating the remedy performance and effectiveness.

A report will be prepared and submitted to DER for each of the three (maximum) *groundwater sampling* events. The report will summarize the data and the results, and will include the well inventory sheets, a water-table map, and a mapped summary of the concentrations of selected constituents detected in site groundwater.

Toward the end of the four-year WA, the existing *LTM plan* (to be provided by DER) will be revised into a format dictated by DEC (a sample of the new format will be provided by DEC). All reports prepared under this WA will be submitted electronically in "portable document format" (pdf) for DER review and approval.

Accordingly, a total of 20 reports will be prepared under this WA.

**TABLE 1
KINGSBURY LANDFILL OM&M
PROJECT ANALYTICAL REQUIREMENTS**

DESCRIPTION	ANALYTICAL METHOD	EFFLUENT	GW MONITORING	INFLUENT	SLUDGE
TCL Volatiles (Low Conc.)	524 / SW8260	Y	Y	Y	Y
TCL Semivolatiles + 20	ASP 2000 / SW8270		Y	Y	Y
TCL PCBs (low det. limit)	USEPA 808	Y	Y	Y	Y
PCB Congeners	USEPA 1668A	Y			
TAL Metals (Ba, Fe, Mn, Cr, Cu)	ASP 2000	Y		Y	
TAL Metals (All)	ASP 2000		Y	Y	Y
Iron (total & filtered)	ASP 2000			Y	
Aluminum (total & filtered)	ASP 2000			Y	
Percent Solids	--				Y
Total Suspended Solids	160.2	Y	Y	Y	Y
Total Volatile Solids	SM2540				Y
Settleable Solids	SM2540	Y	Y		Y
Oil & Grease	SM1664	Y	Y	Y	
pH	SM4500	Y	Y	Y	Y
TOC	415.1		Y	Y	Y
BOD	405.1	Y	Y	Y	Y
COD	410.4		Y	Y	Y
Total Kjeldahl Nitrogen	SM4500				Y
Ammonia	SM4500				Y
Nitrate	E353.2				Y
Total Phosphorus	SM24500				Y

3.0 PROJECT SCHEDULE AND MILESTONES

The project schedule and project milestones are provided below:

WORK ASSIGNMENT ELEMENT	DATE
1.NYSDEC Issues W.A.	2/20/07
2. Submit Draft Work Plan/Budget	4/6/07
3. Receive NYSDEC Comments	4/27/07
4. Submit Final Work Plan/Budget (Task 1)	5/11/07
5. Receive Work Plan Approval/Full Notice to Proceed	5/21/07
6. Treatment system start-up (first season)	6/4/07
7. Treatment system shut-down/winterize	8/31/07
8. Submit June Monthly Report	8/1/07
9. Submit 2007 annual report	10/31/07
10. Submit monitoring report	30 days after lab data receipt
11. Revise LTM plan	December 2010
12. End of Work Assignment period of performance	2/20/11

Reports not tabulated will be delivered on a schedule comparable to that depicted, dependent on system operational dates each year.

4.0 PROJECT STAFFING PLAN

Earth Tech will be teaming up with an MBE firm (IEG) to complete this work assignment. Earth Tech will be responsible for the administration of this work assignment. Technical work will be performed both by Earth Tech and IEG. IEG's technical responsibilities will include process evaluations, operations, maintenance and monitoring of the site for the duration of this work assignment, record keeping, and preparation and submittal of monthly/annual O&M reports. Earth Tech will provide technical and field support for field inspection and sampling, laboratory services, and overall project coordination.

Key Earth Tech and IEG staff proposed for this work assignment are listed below.

- **Project Manager:** Stephen Choiniere will be Earth Tech's Project Manager for this work assignment, and will coordinate project deliverables and fieldwork with IEG and NYSDEC.
- **IEG Project Manager:** Dharmarajan Iyer, Ph.D., P.E., of IEG will be responsible for the technical management of this project, and treatment system evaluation. Dr. Iyer will develop the monthly and annual O&M reports with input from the field staff.
- **Field Staff:** Dan Tagliento (IEG), and Steve Gray (Earth Tech) will provide on site operations and maintenance support during each annual operating season during the four-year O&M work assignment.
- **Engineering Support:** Although IEG will provide the majority of necessary engineering services on this project, Scott Underhill, P.E. (Earth Tech) will be available for in-house consultation.
- **Groundwater Monitoring Reports:** Lor Hoose will prepare the three monitoring reports and will revise the LTM plan.

Approved resumes for the listed personnel are on file with the NYSDEC or will be provided.

5.0 SUBCONTRACTING AND M/WBE UTILIZATION PLAN

Earth Tech has identified the following activities described in this Work Plan that require subcontractor services:

- Treatment System Assessment and Operation – Iyer Environmental Group (IEG - MBE)
- Analytical Laboratory – Mitkem (MBE)
- Inventory and sampling of monitoring wells – Star Environmental (MBE)
- Plant upgrades and repairs - Aztech Technologies, Inc. (WBE)

Services to be provided by the three MBE firms are estimated to be \$206,300, an amount equivalent to 43% of the dollar value of the Work Assignment. The WBE firm will receive work worth an estimated \$78,800, or 17% of the WA dollar value.

6.0 PROJECT BUDGET

A summary of the proposed project level of effort and budget is presented in the attached budget schedules. The total budget for the 4-year WA is estimated to be \$476,953. The subcontractor budgets assume onsite work will NOT be performed at prevailing-wage rates.

Work Assignment No: D004445-18
 Engineer: Earth Tech Northeast, Inc.
 Site ID No: 5-58-008

Site Name: Kingsbury Landfill
 Project No: 99164
 Date Prepared: 3/30/07

**EARTH TECH NORTHEAST, INC.
 SCHEDULE 2.11(a)
 SUMMARY OF WORK ASSIGNMENT PRICE**

1.....	DIRECT SALARY COSTS (Schedules 2.10(a) and 2.11(b))	\$46,747.00	
2.....	INDIRECT COSTS (Schedule 2.10(g))	\$68,625.00	
3.....	DIRECT NON-SALARY COSTS (Schedules 2.10(d)(e)(f) and 2.11(c)(d))	\$56,459.00	
SUBCONTRACT COSTS COST-PLUS-FIXED-FEE SUBCONTRACTS (Schedule 2.10(e) and 2.11(e))			
	NAME OF SUBCONTRACTOR	SERVICES TO BE PERFORMED	SUBCONTRACT PRICE
	Iyer Environmental Group (MBE)	Plant O&M & Reporting	\$134,519.00
4.....	TOTAL COST-PLUS-FIXED-FEE SUBCONTRACTS		\$134,519.00
UNIT PRICE SUBCONTRACTS (Schedule 2.10(f) and 2.11(f))			
	NAME OF SUBCONTRACTOR	SERVICES TO BE PERFORMED	SUBCONTRACT PRICE
	TBD	Chemical Analysis of Water & Sludge Samples	\$44,805.00
	Aztech Technologies, Inc. (WBE)	Treatment Plant Improvements	\$78,781.00
	TBD	MW sampling; WL measurements; well inventories	\$27,356.00
	Subcontract mgmt fee		\$7,547.00
5.....	TOTAL UNIT PRICE SUBCONTRACTS		\$158,489.00
6.....	TOTAL SUBCONTRACT COSTS (Lines 4 + 5)		\$293,008.00
7.....	FIXED FEE (Schedule 2.10(h))		\$12,114.00
8.....	TOTAL WORK ASSIGNMENT PRICE (Lines 1 + 2+ 3+ 6 + 7)		\$476,953.00

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EARTH TECH NORTHEAST, INC.
 TABLE 1.0
 SUMMARY OF BUDGETED PROJECT COSTS

TASK	Direct Labor (a)	Indirect Costs 146.80%	Fixed Fee 10.5%	Travel & Subsistence(b)	Other Direct Costs(c)	Fixed Fee (d) Subcontractor	Sub Con Management Fee 5%	Unit Price (e) Subcontractor	TOTAL COLUMNS (1A-5)
Task 1 - Prepare Workplan	\$1,485.32	\$2,180.45	\$384.91						\$4,050.68
Task 2 - Plant Operation	\$26,490.39	\$38,887.89	\$6,864.72	\$6,557.20	\$48,480.00	\$114,565.70	\$1,230.00	\$24,600.00	\$267,675.90
Task 3 - Plant maintenance	\$5,659.20	\$8,307.71	\$1,466.53	\$1,009.49			\$3,939.05	\$78,781.00	\$99,162.98
Task 4 - GW Monitoring	\$4,531.00	\$6,651.51	\$1,174.16	\$206.13			\$2,378.05	\$47,561.00	\$62,501.85
Task 5 - Reporting	\$8,581.29	\$12,597.33	\$2,223.76	\$206.13		\$19,953.10			\$43,561.60
Sub Con Mgmt Rules MWBE always 5% Others 5% only when > 10,000									
TOTALS	\$46,747.20	\$68,624.89	\$12,114.08	\$7,978.94	\$48,480.00	\$134,518.79	\$7,547.10	\$150,942.00	\$476,953.00

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EARTH TECH NORTHEAST, INC.
NSPE
SCHEDULE 2.11(b)
DIRECT LABOR HOURS BUDGETED
TOTAL

LABOR CLASSIFICATION	IX	VIII	VII	VI	V	IV	III	II	I	LABOR HOURS	DIRECT LABOR
Task 1 - Prepare Workplan	0.00	0.00	0.00	35.50	0.00	0.00	0.00	0.00	0.00	35.50	\$1,485.32
Task 2 - Plant Operation	0.00	0.00	0.00	192.00	0.00	0.00	0.00	720.00	0.00	912.00	\$26,490.39
Task 3 - Plant Maintenance	0.00	0.00	0.00	40.00	40.00	0.00	24.00	60.00	24.00	188.00	\$5,659.20
Task 4 - GW Monitoring	0.00	0.00	0.00	18.00	0.00	0.00	132.00	0.00	0.00	150.00	\$4,531.00
Task 5 - Reporting	0.00	0.00	0.00	60.00	0.00	32.00	132.00	48.00	0.00	272.00	\$8,581.29
TOTAL LABOR HOURS	0.00	0.00	0.00	345.50	40.00	32.00	286.00	828.00	24.00	1557.50	\$46,747.20
TOTAL LABOR DOLLARS	\$0.00	\$0.00	\$0.00	\$14,970.56	\$1,494.40	\$1,001.33	\$8,154.06	\$20,729.66	\$397.20		\$46,747.20

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EARTH TECH NORTHEAST, INC.
NSPE
SCHEDULE 2.11(b)
DIRECT LABOR HOURS BUDGETED
2007

LABOR CLASSIFICATION AVERAGE RAW LABOR RATE	IX \$63.67	VIII \$62.25	VII \$49.30	VI \$41.84	V \$37.36	IV \$30.36	III \$27.20	II \$24.02	I \$16.55	LABOR HOURS	DIRECT LABOR
Task 1 - Prepare Workplan				35.50						35.50	\$1,485.32
Task 2 - Plant Operation				48.00				180.00		228.00	\$6,331.92
Task 3 - Plant Maintenance				40.00	40.00		24.00	60.00	24.00	188.00	\$5,659.20
Task 4 - CW Monitoring				6.00			38.00				\$1,284.64
Task 5 - Reporting				15.00		16.00	40.00	16.00			\$2,585.68
TOTAL LABOR HOURS	0.00	0.00	0.00	144.50	40.00	16.00	102.00	256.00	24.00	451.50	\$17,346.76
TOTAL LABOR DOLLARS	\$0.00	\$0.00	\$0.00	\$6,045.88	\$1,494.40	\$485.76	\$2,774.40	\$6,149.12	\$397.20		\$17,346.76

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EARTH TECH NORTHEAST, INC.
NSPE
SCHEDULE 2.11(b)
DIRECT LABOR HOURS BUDGETED
2008

LABOR CLASSIFICATION AVERAGE RAW LABOR RATE	IX \$65.58	VIII \$64.12	VII \$50.78	VI \$43.10	V \$38.48	IV \$31.27	III \$28.02	II \$24.74	I \$17.05	LABOR HOURS	DIRECT LABOR
Task 1 - Prepare Workplan				48.00				180.00		228.00	\$0.00
Task 2 - Plant Operation				6.00			38.00			44.00	\$6,521.88
Task 3 - Plant Maintenance				15.00		8.00	40.00	15.00		79.00	\$0.00
Task 4 - GW Monitoring											\$1,323.18
Task 5 - Reporting											\$2,413.08
TOTAL LABOR HOURS	0.00	0.00	0.00	69.00	0.00	8.00	78.00	196.00	0.00	351.00	\$10,258.14
TOTAL LABOR DOLLARS	\$0.00	\$0.00	\$0.00	\$2,973.57	\$0.00	\$250.17	\$2,185.25	\$4,849.16	\$0.00		\$10,258.14

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EARTH TECH NORTHEAST, INC.
NSPE
SCHEDULE 2.11(b)
DIRECT LABOR HOURS BUDGETED
2009

LABOR CLASSIFICATION AVERAGE RAW LABOR RATE	IX \$67.55	VIII \$66.04	VII \$52.30	VI \$44.39	V \$39.64	IV \$32.21	III \$28.86	II \$25.48	I \$17.56	LABOR HOURS	DIRECT LABOR
Task 1 - Prepare Workplan											\$0.00
Task 2 - Plant Operation				48.00				180.00		228.00	\$6,717.53
Task 3 - Plant Maintenance											\$0.00
Task 4 - GW Monitoring							18.00			18.00	\$519.42
Task 5 - Reporting				15.00						15.00	\$665.82
TOTAL LABOR HOURS	0.00	0.00	0.00	63.00	0.00	0.00	18.00	180.00	0.00	261.00	\$7,902.77
TOTAL LABOR DOLLARS	\$0.00	\$0.00	\$0.00	\$2,796.45	\$0.00	\$0.00	\$519.42	\$4,586.91	\$0.00		\$7,902.77

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EARTH TECH NORTHEAST, INC.
NSPE
SCHEDULE 2.11(b)
DIRECT LABOR HOURS BUDGETED
2010

LABOR CLASSIFICATION AVERAGE RAW LABOR RATE	IX \$69.57	VIII \$68.02	VII \$53.87	VI \$45.72	V \$40.82	IV \$33.18	III \$29.72	II \$26.25	I \$18.08	LABOR HOURS	DIRECT LABOR
Task 1 - Prepare Workplan											\$0.00
Task 2 - Plant Operation				48.00				180.00		228.00	\$6,919.06
Task 3 - Plant Maintenance											\$0.00
Task 4 - GW Monitoring				6.00			38.00			44.00	\$1,403.76
Task 5 - Reporting				15.00		8.00	52.00	16.00		91.00	\$2,916.71
TOTAL LABOR HOURS	0	0	0	69	0	8	90	196	0	363.00	\$11,239.53
TOTAL LABOR DOLLARS	\$0.00	\$0.00	\$0.00	\$3,154.66	\$0.00	\$265.40	\$2,675.00	\$5,144.47	\$0.00		\$11,239.53

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EARTH TECH NORTHEAST, INC.
SCHEDULE 2.11(b-1)
DIRECT ADMINISTRATIVE LABOR HOURS BUDGETED

LABOR CLASSIFICATION 2006 RAW LABOR RATE	IX \$63.67	VIII \$62.25	VII \$49.30	VI \$41.84	V \$37.36	IV \$30.36	III \$27.20	II \$24.02	I \$16.55	LABOR HOURS	DIRECT LABOR
Task 1 - Prepare Workplan										0.00	\$0.00
Task 2 - Plant Operation										0.00	\$0.00
Task 3 - Plant Maintenance										0.00	\$0.00
Task 4 - GW Monitoring							72.00			72.00	\$1,958.40
Task 5 - Reporting											
TOTAL LABOR HOURS	0	0	0	0	0	0	72	0	0	72	\$1,958.40

Subject to contract allowability, project administrative 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 progress 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

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EARTH TECH NORTHEAST, INC.
 SCHEDULE 2.11(c)
 DIRECT NON-SALARY COSTS

ITEM	MAXIMUM REIMBURSEMENT RATE	UNIT	ESTIMATED NUMBER OF UNITS	TOTAL ESTIMATED COST
Vehicle Mileage				
Task 2 - Plant Operation	\$0.485	miles	13520	\$6,557.20
Task 3 - Plant Maintenance	\$0.485	miles	2081	\$1,009.49
Task 4 - GW Monitoring	\$0.485	miles	425	\$206.13
Task 5 - Reporting	\$0.485	miles	425	\$206.13
			Total	\$7,978.94
Site Utilities				
Task 2 - Plant Operation				
Gas/Electric	\$10,000.00	years	4	\$40,000.00
telephone	\$1,000.00	years	4	\$4,000.00
Water	\$350.00	years	4	\$1,400.00
account transfer charges	\$1,000.00	event	1	\$1,000.00
			Total	\$46,400.00
Sample Shipping				
Task 2 - Plant Operation	\$130.00	event	16	\$2,080.00
			Total	\$2,080.00

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 Date Prepared: 3/30/07

SCHEDULE 2.11(e)
 COST-PLUS-FIXED-FEE SUBCONTRACTS

NAME OF SUBCONTRACTOR	SERVICES TO BE PERFORMED	SUBCONTRACT PRICE
Iyer Environmental Group (MBE)	Plant O&M & Reporting	\$134,518.79

A. Direct Salary Costs 2006 - 2009						
Professional Responsibility Level	Labor Classification				Estimated No. of Hours	Total Estimated Direct Salary Cost
Project Manager	NSPE VIII				340	\$17,221.00
Sr. Project Engineer/Geol.	NSPE VI				0	\$0.00
Project Engineer/Geol.	NSPE IV				0	\$0.00
Technician II	NSPE II				1,100	\$27,940.00
Technician I	NSPE I				0	\$0.00
Total						\$45,161.00

B. Indirect Costs
 Indirect costs shall be paid based on a percentage of direct salary costs incurred which shall not exceed a maximum of 17% or the actual rate calculated in accordance with 48 CFR Federal Acquisition Regulation, whichever is lower.
 Budget for indirect costs is \$52,838.37

C. Maximum Reimbursement Rates for Direct Non-Salary Costs			
Item	Maximum Reimbursement Rate (Specify Unit)	Estimated No. of Units	Total Estimated Costs
Task 2 - Plant Operation			
Sludge T&D	\$940.00	4	\$3,760.00
Bag filters	\$7.00	48	\$336.00
Drummed waste T&D	\$150.00	10	\$1,500.00
Sodium Aluminate	\$800.00	4	\$3,200.00
Sulfuric acid	\$800.00	4	\$3,200.00
Portable toilet rental	\$10.00	12	\$1,320.00
Misc. Repairs	\$2,000.00	4	\$8,000.00
Travel to/from plant	\$0.485	7100	\$3,443.50
Total Direct Non-Salary Costs			\$24,759.50

D. Fixed Fee (12%)
 The fixed fee is \$11,759.92

Work Assignment No: D004445-18
 Engineer: Earth Tech Northeast, Inc.
 Site ID No: 5-58-008

Site Name: Kingsbury Landfill
 Project No: 99164
 Date Prepared: 3/30/07

**IYER ENVIRONMENTAL GROUP
 SCHEDULE 2.11(b)
 TOTAL DIRECT LABOR HOURS BUDGETED**

LABOR CLASSIFICATION AVERAGE RAW LABOR RATE	IX	VIII	VII	VI	V	IV	III	II	I	LABOR HOURS	DIRECT LABOR
Task 2 - Plant Operation		208	0	0	0	0	0	1040	0	1248	\$36,951.20
Task 5 - Reporting		132	0	0	0	0	0	60	0	192	\$8,209.80
TOTAL LABOR HOURS	0	340	0	0	0	0	0	1100	0	1440	
TOTAL LABOR DOLLARS	\$0.00	\$17,221.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$27,940.00	\$0.00		\$45,161.00

**IYER ENVIRONMENTAL GROUP
 SCHEDULE 2.11(b)
 DIRECT LABOR HOURS BUDGETED
 2007**

LABOR CLASSIFICATION 2006 AVERAGE RAW LABOR RATE	IX	VIII \$50.65	VII \$45.60	VI \$37.90	V	IV \$31.60	III \$28.50	II \$25.40	I \$18.90	LABOR HOURS	DIRECT LABOR
Task 2 - Plant Operation		52						260		312	\$9,237.80
Task 5 - Reporting		33.0						15		48.0	\$2,052.45
TOTAL LABOR HOURS	0	85	0	0	0	0	0	275	0	360	
TOTAL LABOR DOLLARS	\$0.00	\$4,305.25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$6,985.00	\$0.00		\$11,290.25

Work Assignment No: D004445-18
 Engineer: Earth Tech Northeast, Inc.
 Site ID No: 5-58-008

Site Name: Kingsbury Landfill
 Project No: 99164
 Date Prepared: 3/30/07

**IYER ENVIRONMENTAL GROUP
 SCHEDULE 2.11(b)
 DIRECT LABOR HOURS BUDGETED
 2008**

LABOR CLASSIFICATION 2007 AVERAGE RAW LABOR RATE	IX	VIII \$50.65	VII \$47.40	VI \$39.40	V	IV \$32.90	III \$29.60	II \$25.40	I \$19.70	LABOR HOURS	DIRECT LABOR
Task 2 - Plant Operation		52						260		312	\$9,237.80
Task 5 - Reporting		33.0						15		48	\$2,052.45
TOTAL LABOR HOURS	0	85	0	0	0	0	0	275	0	360	
TOTAL LABOR DOLLARS	\$0.00	\$4,305.25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$6,985.00	\$0.00		\$11,290.25

**IYER ENVIRONMENTAL GROUP
 SCHEDULE 2.11(b)
 DIRECT LABOR HOURS BUDGETED
 2009**

LABOR CLASSIFICATION 2008 AVERAGE RAW LABOR RATE	IX	VIII \$50.65	VII \$49.30	VI \$41.00	V	IV \$34.20	III \$30.80	II \$25.40	I \$20.50	LABOR HOURS	DIRECT LABOR
Task 2 - Plant Operation		52						260		312	\$9,237.80
Task 5 - Reporting		33.0						15		48	\$2,052.45
TOTAL LABOR HOURS	0	85	0	0	0	0	0	275	0	360	
TOTAL LABOR DOLLARS	\$0.00	\$4,305.25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$6,985.00	\$0.00		\$11,290.25

Work Assignment No: D004445-18
 Engineer: Earth Tech Northeast, Inc.
 Site ID No: 5-58-008

Site Name: Kingsbury Landfill
 Project No: 99164
 Date Prepared: 3/30/07

IYER ENVIRONMENTAL GROUP
 SCHEDULE 2.11(b)
 DIRECT LABOR HOURS BUDGETED
 2010

LABOR CLASSIFICATION 2009 AVERAGE RAW LABOR RATE	IX	VIII \$50.65	VII \$51.30	VI \$42.60	V	IV \$35.60	III \$32.00	II \$25.40	I \$21.30	LABOR HOURS	DIRECT LABOR
Task 2 - Plant Operation		52						260		312	\$9,237.80
Task 5 - Reporting		33.0						15		48.0	\$2,052.45
TOTAL LABOR HOURS	0	85	0	0	0	0	0	275	0	360	
TOTAL LABOR DOLLARS	\$0.00	\$4,305.25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$6,985.00	\$0.00		\$11,290.25

Work Assignment No: D004445-18
 Engineer: Earth Tech Northeast, Inc.
 Site ID No: 5-58-008

Site Name: Kingsbury Landfill
 Project No: 99164
 Date Prepared: 3/30/07

EARTH TECH NORTHEAST, INC.
 SCHEDULE 2.11(f)
 UNIT PRICE SUBCONTRACTS

NAME OF SUBCONTRACTOR	SERVICES TO BE PERFORMED	WMBE Mngnt Fee	MWBE Flag (Y=1, N=0)	SUBCONTRACT PRICE
TBD	MW sampling; WL measurements; well inventories	\$1,367.80	1	\$27,356.00

Item	Maximum Reimbursement Rate (Specify Unit)	Estimated No. of Units	MWBE Mngnt Fee %	Total Estimated Costs
Task 4 - GW Monitoring				
3 events				
MW inventory; WL measurements; sample 9 wells	\$60.00	368	\$1,104.00	\$22,080.00
equipment rental	\$750.00	3	\$112.50	\$2,250.00
travel to/from site	\$0.485	1600	\$38.80	\$776.00
sample shipping	\$750.00	3	\$112.50	\$2,250.00
 Sub Con Mgmt Rules MWBE always 5% Others 5% only when >10,000				
			\$1,367.80	\$27,356.00

Work Assignment No: D004445-18
 Engineer: Earth Tech Northeast, Inc.
 Site ID No: 5-58-008

Site Name: Kingsbury Landfill
 Project No: 99164
 Date Prepared: 3/30/07

EARTH TECH NORTHEAST, INC.
 SCHEDULE 2.11(f)
 UNIT PRICE SUBCONTRACTS

NAME OF SUBCONTRACTOR	SERVICES TO BE PERFORMED	WMBE Mngnt Fee	MWBE Flag (Y=1, N=0)	SUBCONTRACT PRICE
Aztech Technologies, Inc. (WBE)	Treatment Plant Improvements	\$3,939.05	1	\$78,781.00

Item	Maximum Reimbursement Rate (Specify Unit)	Estimated No. of Units	MWBE Mngnt Fee 5%	Total Estimated Costs
Task 3 - Plant Maintenance				
New Control Panel	\$9,000.00	1	\$450.00	\$9,000.00
New Control Panel Wiring	\$9,000.00	1	\$450.00	\$9,000.00
Air Line Piping	\$9,000.00	1	\$450.00	\$9,000.00
Compressor Repair	\$9,000.00	1	\$450.00	\$9,000.00
Carbon Change Out	\$9,000.00	1	\$450.00	\$9,000.00
Upgrade Pressure Filters	\$9,000.00	1	\$450.00	\$9,000.00
Repair Pipe Bridge	\$9,000.00	1	\$450.00	\$9,000.00
prep & paint clarifier & acid tank clarifier media, installed	\$9,000.00 \$6,781.00	1 1	\$450.00 \$339.05	\$9,000.00 \$6,781.00
Note - tabulated values are estimates only. Aztech is a spills contractor with the NYSDEC, and the work will be performed using their contract unit-rates.				
Sub Con Mgmt Rules MWBE always 5% Others 5% only when >10,000			\$3,939.05	\$78,781.00

Work Assignment No: D004445-18
 Engineer: Earth Tech Northeast, Inc.
 Site ID No: 5-58-008

Site Name: Kingsbury Landfill
 Project No: 99164
 Date Prepared: 3/30/07

EARTH TECH NORTHEAST, INC.
 SCHEDULE 2.11(f)
 UNIT PRICE SUBCONTRACTS

NAME OF SUBCONTRACTOR	SERVICES TO BE PERFORMED	M/WBE Mgmt Fee	MWBE Flag (Y=1, N=0)	SUBCONTRACT PRICE
TBD	Chemical Analysis of Water & Sludge Samples	\$2,240.25	1	\$44,805.00

Item	Maximum Reimbursement Rate (Specify Unit)	Estimated No. of Units	MWBE Mngnt Fee %	Total Estimated Costs
Task 2 - Plant Operation				
Influent Samples	\$765.00 per sample	12		\$5,940.00
Effluent Samples	\$465.00 per sample	12		\$5,580.00
" " (PCB congeners)	\$1,700.00 per sample	4		\$6,800.00
Sludge Samples	\$760.00 per sample	4		\$3,040.00
			\$1,230.00	
Task 4 - GW Monitoring				
GW Samples	\$6,735.00 per event	3	\$1,010.25	\$20,205.00
Sub Con Mgmt Rules				
MWBE always 5%				
Others 5% only when >10,000				

Work Assignment No: D004445-18
 Engineer: Earth Tech Northeast, Inc.
 Site ID No: 5-58-008

Site Name: Kingsbury Landfill
 Project No: 99164
 Date Prepared: 3/30/07

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

Total Assignment

Page 1 of 6

Expenditure Category	A Costs Claimed This Period	B Paid To Date	C Total Disallowed To Date	D Total Costs Incurred To Date (A+B+C)	E Estimated Costs To Completion	F Estimated Total Work Assignment Price (A+B+E)	G Approved Budget	H Estimated Under/(Over) (G-F)
1 Direct Salary Costs							\$46,747.20	
2 Indirect Costs (156%)							\$68,624.89	
3 Subtotal Direct Salary Costs and Indirect Costs							\$115,372.09	
4 Travel							\$7,978.94	
5 Other Non-Salary Costs							\$48,480.00	
6 Subtotal Direct Non-Salary Costs							\$56,458.94	
7 Subcontractors							\$285,460.79	
8 Total Work Assignment Cost							\$457,291.82	
9 Fixed Fee							\$12,114.08	
9A Subcon. Mgmt. Fee							\$7,547.10	
10 Total Work Assignment Price							\$476,953.00	

Project Manager (Engineer) _____

Date _____

Work Assignment No: D004445-18
 Engineer: Earth Tech Northeast, Inc.
 Site ID No: 5-58-008

Site Name: Kingsbury Landfill
 Project No: 99164
 Date Prepared: 3/30/07

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

Task 1 - Prepare Workplan

Page 2 of 6

Expenditure Category	A Costs Claimed This Period	B Paid To Date	C Total Disallowed To Date	D Total Costs Incurred To Date (A+B+C)	E Estimated Costs To Completion	F Estimated Total Work Assignment Price (A+B+E)	G Approved Budget	H Estimated Under/(Over) (G-F)
1 Direct Salary Costs							\$1,485.32	
2 Indirect Costs (156.4%)							\$2,180.45	
3 Subtotal Direct Salary Costs and Indirect Costs							\$3,665.77	
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							\$3,665.77	
9 Fixed Fee							\$384.91	
9A Subcon. Mgmt. Fee							\$0.00	
10 Total Work Assignment Price							\$4,050.68	

Project Manager (Engineer) _____

Date _____

Work Assignment No: D004445-18
 Engineer: Earth Tech Northeast, Inc.
 Site ID No: 5-58-008

Site Name: Kingsbury Landfill
 Project No: 99164
 Date Prepared: 3/30/07

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

Task 2 - Plant Operation

Page 3 of 6

Expenditure Category	A Costs Claimed This Period	B Paid To Date	C Total Disallowed To Date	D Total Costs Incurred To Date (A+B+C)	E Estimated Costs To Completion	F Estimated Total Work Assignment Price (A+B+E)	G Approved Budget	H Estimated Under/(Over) (G-F)
1 Direct Salary Costs							\$26,490.39	
2 Indirect Costs (156)							\$38,887.89	
3 Subtotal Direct Salary Costs and Indirect Costs							\$65,378.28	
4 Travel							\$6,557.20	
5 Other Non-Salary Costs							\$48,480.00	
6 Subtotal Direct Non-Salary Costs							\$55,037.20	
7 Subcontractors							\$139,165.70	
8 Total Work Assignment Cost							\$259,581.18	
9 Fixed Fee							\$6,864.72	
9A Subcon. Mgmt. Fee							\$1,230.00	
10 Total Work Assignment Price							\$267,675.90	

Project Manager (Engineer) _____

Date _____

Work Assignment No: D004445-18
 Engineer: Earth Tech Northeast, Inc.
 Site ID No: 5-58-008

Site Name: Kingsbury Landfill
 Project No: 99164
 Date Prepared: 3/30/07

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

Task 3 - Plant Maintenance

Page 4 of 6

Expenditure Category	A Costs Claimed This Period	B Paid To Date	C Total Disallowed To Date	D Total Costs Incurred To Date (A+B+C)	E Estimated Costs To Completion	F Estimated Total Work Assignment Price (A+B+E)	G Approved Budget	H Estimated Under/(Over) (G-F)
1 Direct Salary Costs							\$5,659.20	
2 Indirect Costs (15%)							\$8,307.71	
3 Subtotal Direct Salary Costs and Indirect Costs							\$13,966.91	
4 Travel							\$1,009.49	
5 Other Non-Salary Costs							\$0.00	
6 Subtotal Direct Non-Salary Costs							\$1,009.49	
7 Subcontractors							\$78,781.00	
8 Total Work Assignment Cost							\$93,757.40	
9 Fixed Fee							\$1,466.53	
9A Subcon. Mgmt. Fee							\$3,939.05	
10 Total Work Assignment Price							\$99,162.98	

Project Manager (Engineer) _____

Date _____

Work Assignment No: D004445-18
 Engineer: Earth Tech Northeast, Inc.
 Site ID No: 5-58-008

Site Name: Kingsbury Landfill
 Project No: 99164
 Date Prepared: 3/30/07

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

Task 4 - GW Monitoring

Page 5 of 6

Expenditure Category	A Costs Claimed This Period	B Paid To Date	C Total Disallowed To Date	D Total Costs Incurred To Date (A+B+C)	E Estimated Costs To Completion	F Estimated Total Work Assignment Price (A+B+E)	G Approved Budget	H Estimated Under/(Over) (G-F)
1 Direct Salary Costs							\$4,531.00	
2 Indirect Costs (156)							\$6,651.51	
3 Subtotal Direct Salary Costs and Indirect Costs							\$11,182.51	
4 Travel							\$206.13	
5 Other Non-Salary Costs							\$0.00	
6 Subtotal Direct Non-Salary Costs							\$206.13	
7 Subcontractors							\$47,561.00	
8 Total Work Assignment Cost							\$58,949.64	
9 Fixed Fee							\$1,174.16	
9A Subcon. Mgmt. Fee							\$2,378.05	
10 Total Work Assignment Price							\$62,501.85	

Project Manager (Engineer) _____

Date _____

Work Assignment No: D004445-18
 Engineer: Earth Tech Northeast, Inc.
 Site ID No: 5-58-008

Site Name: Kingsbury Landfill
 Project No: 99164
 Date Prepared: 3/30/07

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

Task 5 - Reporting

Page 6 of 6

Expenditure Category	A Costs Claimed This Period	B Paid To Date	C Total Disallowed To Date	D Total Costs Incurred To Date (A+B+C)	E Estimated Costs To Completion	F Estimated Total Work Assignment Price (A+B+E)	G Approved Budget	H Estimated Under/(Over) (G-F)
1 Direct Salary Costs							\$8,581.29	
2 Indirect Costs (156)							\$12,597.33	
3 Subtotal Direct Salary Costs and Indirect Costs							\$21,178.62	
4 Travel							\$206.13	
5 Other Non-Salary Costs							\$0.00	
6 Subtotal Direct Non-Salary Costs							\$206.13	
7 Subcontractors							\$19,953.10	
8 Total Work Assignment Cost							\$41,337.84	
9 Fixed Fee							\$2,223.76	
9A Subcon. Mgmt. Fee								
10 Total Work Assignment Price							\$43,561.60	

Project Manager (Engineer) _____

Date _____

Work Assignment No: D004445-18
 Engineer: Earth Tech Northeast, Inc.
 Site ID No: 5-58-008

Site Name: Kingsbury Landfill
 Project No: 99164
 Date Prepared: 3/30/07

**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 TASK NO.	IX		VIII		VII		VI		V		IV		III		II		I		TOTAL NO. OF DIRECT LABOR HOURS	
	Exp	Est.	Exp	Est.	Exp	Est.	Exp	Est.	Exp	Est.	Exp	Est.	Exp	Est.	Exp	Est.	Exp	Est.	Exp	Est.
1		0.0		0.0		0.0		35.5		0.0		0.0		0.0		0.0		0.0		35.5
2		0.0		0.0		0.0		192.0		0.0		0.0		0.0		720.0		0.0		912.0
3		0.0		0.0		0.0		40.0		40.0		0.0		24.0		60.0		24.0		188.0
4		0.0		0.0		0.0		18.0		0.0		0.0		132.0		0.0		0.0		150.0
5		0.0		0.0		0.0		60.0		0.0		32.0		132.0		48.0		0.0		272.0
6		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0
7		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0
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
10		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0
11		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0
12		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0
13		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0
14		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0
15		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0
16		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0
17		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0
TOTAL		0.0		0.0		0.0		345.5		40.0		32.0		288.0		828.0		24.0		1557.5

