

N60478.AR.000183
NWS EARLE
5090.3a

Proposal to:

**Collect and Analyze Soil Samples at the Child Development Center,
at Naval Weapons Station Earle, Colts Neck, New Jersey**

Submitted by:

**HALLIBURTON NUS Environmental Corporation
910 Clopper Road
Gaithersburg, Maryland 20877**

12 March 1992

Submitted to:

**U.S. Naval Facility Engineering Command
Northern Division, Code 0223
Environmental Contracts Branch
Building 77-L, U.S. Navy Yard
Philadelphia, Pennsylvania 19112-5094**

In Support of:

**Contract No. N62472-90-D-1298
CLEAN Contract Task Order No. 55**

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1.0 INTRODUCTION

1.1 PURPOSE

This document is the proposal for Contract Task Order (CTO) No. 55 under the Comprehensive Long-Term Environmental Action Navy (CLEAN), Contract Number N62472-90-D-129. CTO No. 55 (as revised by Navy verbal direction) requests that HALLIBURTON NUS provide for the collection, analysis, and validation of soil samples obtained from two areas at the Naval Weapons Station Earle located in Colt's Neck, New Jersey. The samples are to be collected at Navy-specified locations and depth zones and are to be analyzed for polychlorinated biphenyls (PCBs), Target Compound List (TCL) organics, and Target Analyte List (TAL) inorganics. Samples are to be collected and analyzed in accordance with current United States Environmental Protection Agency (EPA) protocols and methodologies.

The purpose of this proposal is to define the scope of work, estimated budget, and project schedule for the HALLIBURTON NUS Team to procure an analytical laboratory subcontractor, conduct field activities necessary to obtain the samples, ship the samples to the subcontractor, obtain, review and validate the subcontractor's analytical data, and provide the analytical results to the Navy.

1.2 PROPOSAL ORGANIZATION

This proposal consists of five sections as follows:

- Section 1.0 - Introduction
- Section 2.0 - Project Staffing
- Section 3.0 - Scope of Work
- Section 4.0 - Project Budget
- Section 5.0 - Project Schedule

Section 1.0 is this brief introduction and section 2.0 provides a description of the management approach and key personnel. Section 3.0 includes a brief site description, an overview of the scope (including task and subtask descriptions), and key assumptions. Section 4.0 is the detailed cost estimate and section 5.0 includes the proposed project schedule.

2.0 PROJECT STAFFING

2.1 MANAGEMENT APPROACH

HALLIBURTON NUS will be the lead technical firm for this assignment. As proposed, the work will be managed in our Wayne, Pennsylvania office. HALLIBURTON NUS personnel who are familiar with the Naval Weapons Station Earle through other project activities under CLEAN are located in the Wayne office.

The project manager is responsible for the day-to-day contact with the Navy Remedial Project Manager (RPM), Gerald Hoover and for maintaining the project's scope, schedule, and budget. Program management staff are responsible for overseeing all technical and administrative activities for individual projects.

Program planning documents, including the Contract Management Plan, Quality Control Management Plan, and Health and Safety Management Plan, provide overall direction for the execution of projects under CLEAN. These plans require technical review of all deliverables, routine project reviews, establish responsibilities, etc.

2.2 KEY PROJECT TEAM MEMBERS

Program Management staff that are involved with the overall performance of CTOs include:

- John Trepanowski, P.E. - Program Manager (215-971-0900)
- Patricia Patton - Contracting Officer (301-258-8644)
- Patricia Armstrong - Quality Assurance Officer (215-971-0900)
- Matt Soltis - Health and Safety Manager (412-921-7090)

The project manager/lead scientist assigned to this CTO is Rick Gorrell. He is located in the HALLIBURTON NUS Wayne office and can be reached at (215) 971-0900 by telephone and at (215) 971-9715 by telecopy. Paul Persing will act as the field operations leader for this project. A field sampling team consisting of the field operations leader, an environmental scientist and an environmental engineer will also be assigned to this project. Mr. Gorrell's and Mr. Persing's resumes are attached to this proposal.

3.0 SCOPE OF WORK

3.1 SITE BACKGROUND

EPA has recently requested that the Navy conduct a preliminary assessment of the area that includes the future site of the Child Development Center (CDC). The Navy initiated an environmental assessment of the area that included the collection and analysis of soil samples from various locations at and adjacent to the CDC. The results of the initial investigation indicated low levels of soil contamination.

Based on the current construction plans and schedule for the CDC, the Navy has determined that additional sampling and analysis is required to further verify the presence or absence of PCBs, TCL organics, and TAL inorganics. The Navy has identified nine sample locations for PCB analysis and four sample locations (two samples from each location) for TCL organics and TAL inorganics.

The Navy has requested that the samples be collected and analyzed in accordance with current EPA and NJDEPE protocols and methods. Furthermore, the Navy has requested that Navy Energy and Environmental Support Activity (NEESA) Level D Quality Assurance/Quality Control (QA/QC) Protocols be used and that the turn-around time for the analytical results be expedited (14-Day Verbal Results).

3.2 PROJECT SCOPE

The scope of this project includes four separate tasks. The tasks include procurement and management of the subcontract laboratory, sample collection, sample analysis, and data validation. The following discussion provides details regarding the proposed objective for each task and the basic assumptions used to establish the estimated project costs.

3.2.1 TASK 1 - Subcontract Laboratory Procurement and Management

3.2.1.1 Subtask 0101 - Procurement

This task involves the selection of a subcontract analytical laboratory through a modified competitive bid process. Several perspective subcontractors, which are under the Basic Ordering Agreement with HALLIBURTON NUS, were contacted and provided a scope of work for analytical services. The scope of work specified sample numbers, analytical parameters, analytical methods, NEESA QA/QC Level(s), data reporting requirements, schedule, and instructions to coordinate sample container shipment and sample receipt. Each subcontractor was requested to provide a unit price per sample and total lump sum price quotation in writing. All procurement activities were conducted in accordance with the CLEAN Contract Management Plan.

The lead scientist required eight hours to write the scope of work and resolve questions with perspective subcontractors. The project manager required four hours to coordinate the preparation and submission of the contract documents (Basic Ordering Agreement/Scope of Work) and document all procurement activities. Two hours of senior technical time is required for consultation and document quality assurance review. Two hours support time is also required for the administrative and clerical staff for the production of the procurement documents.

3.2.1.2 Subtask 0102 - Subcontractor Management

Sub Task 0102 involves monitoring the subcontractor to ensure compliance with the scope of work and to track costs and schedule commitment. Subtask 0102 will be conducted in accordance with section 4.5, Subcontract Management, of the CLEAN Contract Management Plan.

The project manager will verify that the subcontractor completes all work in accordance with the CLEAN Contract Management Plan. The project manager will be responsible for monitoring the subcontractor's overall performance, including work schedule and budget. Six hours are proposed for completion of these efforts.

3.2.3 Task 2 - Sample Collection

Task 2 includes all activities required to collect the samples, including mobilization and field work.

3.2.3.1 Subtask 0201 - Mobilization

Mobilization includes preparation of the Site Health and Safety Plan (HASP), coordination between the project manager/lead scientist and field operations manager, assemblage of all field sampling equipment (including vehicles, sampling and safety equipment, and sample containers), and coordination of access arrangements between the field operations manager and the Navy site representative.

The health and safety specialist will require 20 hours to prepare the HASP. The lead scientist and field operations leader will require two hours each for coordination. The field operations leader and the equipment manager will require ten hours to assemble the equipment and to coordinate access with the Navy. Two hours of senior technical time is required for review of the HASP. Four hours of support is also required from the field sampling team to familiarize themselves with sampling requirements (i.e., labeling bottleware, etc.).

Two hours of project management time is also proposed.

3.2.3.2 Subtask 0202 - Field Work

Field work includes all activities required to collect the soil samples at the locations and from the depth zones specified by the Navy and to ship the samples to the subcontract laboratory. All field work will be conducted in accordance with the 27 February 1992 "Field Sampling Plan" provided by the Navy, subsequent discussions on 6 March 1992 between HALLIBURTON NUS and the Navy, and HALLIBURTON NUS Standard Operating Procedures (SOPs). Refer to Table 3-1 (page 3-6) for a summary of the sampling and analysis plan that will be implemented.

All samples, including field samples, field rinse blanks, trip blanks, and field duplicates, will be obtained in accordance with current EPA and NJDEPE protocols. All field sampling equipment will be decontaminated per EPA and NJDEPE guidelines.

All soil sample locations will be determined in the field based on the sample location maps provided by the Navy. The actual sample locations will be recorded in the field logbook based on measurement (to the nearest 0.5 foot) from fixed site reference points to the sample location.

All samples will be packaged and shipped to the laboratory in accordance with EPA and NJ DEPE protocols and minimum holding time requirements. The sample shipments will include appropriate chain-of-custody documentation and laboratory-specified shipping documents.

The field work, including follow-up activities, will be completed within 1-1/2 days. The field operations leader and the two field support staff members will each require a total of 10 hours (30 man-hours) to travel to and from the site and collect and package the samples. An additional six man-hours are also required for follow-up activities (returning equipment, filing sample documentation, etc.). Two hours for project management are also required.

3.2.4 Laboratory Analysis

The subcontract laboratory will conduct analysis on all samples in accordance with the scope of work developed by HALLIBURTON NUS. The analytical parameters are based on Navy specifications. Table 3-1 (page 3-6) summarizes the sampling and analysis plan.

The lab will be requested to follow NEESA Level D QA/QC protocols. All samples are to be analyzed in accordance with methods specified in the EPA Contract Laboratory Program (CLP) Scope of Work (SOW).

The laboratory will be required to provide verbal results of the analysis within 14 days of the date of sample receipt. The lab will be required to provide the complete Level D data package within 21 days of sample receipt.

Estimated subcontract laboratory costs are summarized in section 4.0.

The project manager/lead scientist will require four hours to coordinate and verify the receipt and documentation of verbal and hard copy analytical results. An additional eight hours of technical support is required for the reduction of the raw analytical data to generate a sample data summary table for submission to the Navy.

3.2.5 Data Validation

In accordance with the Navy's verbal request (Nick Stencel, 5 March 1992), the data received from the subcontract laboratory will be reviewed and validated. The data validation will be conducted in accordance with the EPA's "Functional Guidelines for Organic Data Validation" (February 1988) and "Functional Guidelines for Inorganic Data Validation" (July 1988) as amended for use by EPA Region II and current NORTHDIV direction.

The results of the data validation will be provided to the Navy in a checklist format, as appropriate and acceptable for EPA Region II. All raw analytical data will also be provided to the Navy.

The data validation will require 70 hours, including 61 hours for the project chemist/data validator and nine hours for senior chemist review and consultation. Two hours for project management and administrative support are also required.

**TABLE 3-1
 NWS EARLE (CTO - 55)
 SAMPLING AND ANALYSIS PLAN**

Sample Description	Sample Type	Analytical Parameters	Analytical Method	NEESA QA/QC Level	Rationale
Group 1 Nine soil samples were obtained from the 6- to 12-inch depth zone at the rail siding area.	solid	TCL PCBs	EPA CLP SOW	D	Obtained to determine the presence or absence of PCBs at the specified sample locations.
Group 2 Four soil samples were obtained from the 0- to 6-inch depth zone at the CDC play area.	solid	Full TCL Full TAL	EPA CLP SOW	D	Obtained to determine the presence or absence of TCL and TAL contamination at the specified sample locations.
Group 3 Four soil samples were obtained from the 6- to 12-inch depth zone at the CDC play area.	solid	Full TCL Full TAL	EPA CLP SOW	D	Sample locations same as Group 2.
Field Duplicate ¹	solid	Full TCL Full TAL	EPA CLP SOW	D	Field QA/QC
Field Rinse Blank ¹	liquid	Full TCL Full TAL	EPA CLP SOW	D	Field QA/QC
Trip Blank ¹	liquid	VOC	EPA CLP SOW	D	Field QA/QC

Notes

¹ Does not include laboratory Qa/QC samples.

TCL: Target Compound List

TAL: Target Analyte List

PCBs: Polychlorinated biphenyls

VOC: Volatile organic compounds

EPA CLP SOW: United States Environmental Protection Agency Contract Laboratory Program Scope of Work

4.0 BUDGET

The estimated labor requirements for HALLIBURTON NUS to conduct CTO-55 are summarized on the spreadsheets following this discussion. Estimated subcontractor laboratory costs are also included.

NOTE: This form is used in contract actions if submission of cost or pricing data is required. (See FAR 15.804-6(b))

2. NAME AND ADDRESS OF OFFEROR (Include ZIP Code) JA. Name and Title of Offeror's Point of Contact
 HALLIBURTON NUS Environmental Corporation
 910 Clooper Road
 Gaithersburg, MD 20777
 Patricia A. Patton
 Senior Contract Specialist
 (301) 258-8644

4. Type of Contract Action (Check)
 A. New Contract
 B. Change Order
 C. Price Revision/Redetermination
 D. Letter
 E. Unopened Order
 F. Other (Specify) Task Order Proposal

5. Type of Contract (Check)
 FFP
 FPI
 CPFF
 OTHER
 CPIF
 CPAF

5. Proposed Cost (A+B=C)
 A. Cost: \$42,510.00
 B. Profit/Fee: \$2,648.00
 C. Total: \$45,158.00

7. Place(s) and Period(s) of Performance
 Site: NWS Earle, Colt's Neck, NJ

8. List and reference the identification, quantity and total price proposed for each contract line item. A line item cost breakdown supporting this recap is required unless otherwise specified by the Contracting Officer. (Continue on reverse)

A. LINE ITEM NO.	B. IDENTIFICATION	C. QUANTITY	D. TOTAL PRICE	E. REF.
	Contract Task Order No. 55 Collect and Analyze Soil Samples at the Child Development Center NWS Earle, Colt's Neck, NJ	1	\$45,158.00	See att.

9. PROVIDE NAME, ADDRESS AND TELEPHONE NUMBER FOR THE FOLLOWING (If available)

A. Contract Administration Office
 DCMAO, Baltimore (301) 339-4962
 200 Towsontown Blvd. West
 Towson, MD 21204-5299
 ATTN: John Novotny

B. Audit Office
 DCAA, Dorothy Awosika, (301) 427-5544
 Silver Spring Branch Office, Metro Plaza II
 8403 Colesville Road, Suite 620
 Silver Spring, MD 20910-3312

10. Will you require the use of any Government Property in the performance of this work? (If "Yes," identify.)
 Yes No

11. Do you require Government Contract Financing to perform this proposed contract? (If "Yes," complete Item 11B)
 Yes No

11B. Type of Financing (check one)
 Advance Payments
 Progress Payments
 Guaranteed Loans

12. Have you been awarded any contracts or subcontracts for the same or similar items within the past 3 years? (If "Yes," identify item(s), customer(s) and contract No.)
 Yes No

13. Is this proposal consistent with your established estimating and accounting practices and procedures and FAR Part 31 Cost Principles? (If "No," explain)
 Yes No
 See Attached

14. COST ACCOUNTING STANDARDS BOARD (CASB) DATA (Public Law 91-379 as amended and FAR Part 30)

A. Will this contract action be subject to CASB regulations? (If "No," explain in proposal)
 Yes No

B. Have you submitted a CASB Disclosure Statement (CASB DS-1 or 2)? (If "Yes," specify in proposal the office to which submitted and if determined to be adequate)
 Yes No
 DCMAO Revised 1/1/92

C. Have you been notified that you are or may be in non-compliance with your disclosure statement of cost accounting standards? (If "Yes," explain in proposal)
 Yes No
 See attached

D. Is any aspect of this proposal inconsistent with your disclosed practices or applicable cost accounting standards? (If "Yes," explain in proposal)
 Yes No

This proposal is submitted in response to the RFP, contract modification, etc. in Item 1 and reflects our best estimates and/or actual costs as of this date and conforms with the instructions in FAR 15.804-6(b) (2), Table 15-2. By submitting this proposal, the offeror, if selected for negotiation, grants the contracting officer or an authorized representative the right to examine, at any time before award, those books, records, documents and other types of factual information regardless of form or whether such supporting information is specifically referenced or included in the proposal as the basis for pricing, that will permit an adequate evaluation of the proposed price.

15. Name and Title (Type)
 Patricia A. Patton, Sr. Contract Administrator

16. Name of Firm
 HALLIBURTON NUS Environmental Corporation

17. Signature
Patricia A. Patton

18. Date of submission
 March 12, 1992

TABLE 4 - 1

DATE: March 11, 1992
 FIRM: HALLIBURTON NUS
 CONTRACT: N62472-90-D-1298
 LOCATION: NWS Earle, Colt's Neck, NJ
 TITLE: CTO No. 55
 Collect and Analyze Soil Samples

RATES:
 P4 29.88
 P3 21.53
 P2 17.62
 P1 13.39
 T2 12.67
 ADM 10.80
 OVH 115.00%
 G&A 8.70%
 FEE 10.00%
 FEE 5.00%

HALLIBURTON NUS COST SUMMARY

ELEMENT OF COST

	P4		P3		P2		ADM		TOTAL
	Hrs	Amt	Hrs	Amt	Hrs	Amt	Hrs	Amt	
DIRECT LABOR									
TASK 1.0	2	60	18	388	2	35	2	22	
TASK 2.0	2	60	6	129	70	1,233	5	54	
TASK 3.0	0	0	4	86	8	141	0	0	
TASK 4.0	0	0	11	237	61	1,075	2	22	
SUBTOTAL	4	120	39	840	141	2,484	9	97	3,541
OVERHEAD AT 115%									4,072
SUBTOTAL									7,613
OTHER DIRECT COSTS									
Subtotal (includes \$50.00 travel)									2,089
SUBTOTAL OF DL, OVH, and ODCs									9,702
G&A at 8.7%									844
Subtotal									10,546
FEE at 10% (excludes travel \$50.00)									1,050
TOTAL HALLIBURTON NUS COST AND FEE									11,595
SUBCONTRACTORS COSTS									
ANALYTICAL ESTIMATE									29,406
SUBTOTAL									29,406
G&A ON SUBCONTRACTORS AT 8.7%									2,558
SUBTOTAL									31,965
FEE AT 5%									1,598
TOTAL COST AND FEE ASSOCIATED WITH SUBCONTRACTOR									33,563
TOTAL COMBINED PROJECT COST AND FEE									45,158

**TABLE 4-2
SUMMARY OF LABOR BY TASK
CTO No. 55 - NWS EARLE
SOIL SAMPLING AND ANALYSIS**

TASK		SENIOR REVIEW P-4	LEAD SC/ PM P3	FIELD STAFF P-2	QA/QC CHEMIST P-2	HEALTH SAFETY P-2	ADM	TOTAL
1.0	SUBCONTRACTOR LAB PROCUREMENT/ MGT.							
1.1	Procurement	2	12				2	16
1.2	Management		6	2				8
	SUBTOTAL	2	18	2	0	0	2	24
2.0	SAMPLE COLLECTION							
2.1	Mobilization	2	4	6		20	5	37
2.2	Field Work		2	44				46
	SUBTOTAL	2	6	50	0	20	5	83
3.0	LABORATORY ANALYSIS		4		8			12
4.0	DATA VALIDATION		11		61		2	74
	TOTAL	4	39	52	69	20	9	193

**TABLE 4-3
SUMMARY OF OTHER DIRECT COSTS
CTO 55
NWS EARLE**

<u>TASK</u>	<u>COST</u>
TASK 1	SUBCONTRACT LAB PROCUREMENT AND MANAGEMENT
	Reproduction (\$.07/page x 100)..... \$7.00
	CADD/WP/PC (\$10/hour x 2 hrs)..... \$20.00
	Telephone/Fax (\$6/call x 10 calls)..... \$60.00
	Mail (\$9.66/pkg x 2 pkgs)..... \$19.32
	Materials and Supplies (25.00)..... \$25.00
	Travel (0 miles x \$.25/mile)..... \$0
	SUBTOTAL..... \$131.32
TASK 2	SAMPLE COLLECTION
	Reproduction (\$.07/page x 500 pp)..... \$35.00
	CADD/WP/PC (\$10/hour x 0 hrs)..... \$0
	Telephone/Fax (\$6/call x 5 calls)..... \$30.00
	Mail (\$9.66/pkg x 3 pkgs)..... \$28.98
	Mail (\$100/pkg x 3 pkgs)..... \$300.00
	Equipment and Supplies ⁽¹⁾ (1064)..... \$1064.00
	Travel (200 miles x \$.25/mile)..... \$50.00
	SUBTOTAL..... \$1507.98
TASK 3	LABORATORY ANALYSIS
	Reproduction (\$.07/page x 100 pp)..... \$7.00
	CADD/WP/PC (\$10/hour x 0 hrs)..... \$0
	Telephone/Fax (\$6/call x 5 calls)..... \$30.00
	Mail (\$4/package x 0)..... \$0
	Mail (\$9.66/pack x 2)..... \$19.32
	Materials and Supplies (25.00)..... \$25.00
	Travel (0 miles x \$.25/mile)..... \$0
	SUBTOTAL..... \$81.32
TASK 4	DATA VALIDATION
	Reproduction (\$.07/page x 1000 pp).... \$70.00
	CADD/WP/PC (\$10/hour x 20 hrs)..... \$200.00
	Telephone/Fax (\$6/call x 5 call)..... \$30.00
	Mail (\$9.66/pack x 5 pkgs)..... \$48.30
	Materials and Supplies (20)..... \$20.00
	Travel (0 miles x \$.25/mile)..... \$0
	SUBTOTAL..... \$368.30
	TOTAL..... \$2,088.92

Note: (1) Refer to Table 4-5 for an itemized list of the equipment used.

TABLE 4-4
NAVAL WEAPONS STATION - EARLE
CONTRACT TASK ORDER (CTO) 055
SUBCONTRACTOR COST ESTIMATE
ANALYTICAL TESTING

Parameters and Test	Number of Field Samples ¹	Laboratory QC Samples	Unit Cost	Total Cost
TCL: PCBs	9		\$187.50	\$1,687.50
Full TCL	11	2	\$1,768.75	\$22,993.75
Full TAL	10	2	\$393.75	\$4,725.00
TOTAL ANALYTICAL COSTS: <u>\$29,406.25</u>				

Notes:

1 Includes field QC samples.

**TABLE 4-5
EQUIPMENT SUMMARY
NAVAL WEAPONS STATION - EARLE
CONTRACT TASK ORDER (CTO) 055
SOIL SAMPLING AND ANALYSIS**

Item/Equipment	Quantity	Duration (days)	Unit Rate	Total
Auger	4	4	\$5.00 per day	\$80.00
Decontamination Kit	1	4	\$10.00 per day	\$40.00
Sample Mix Containers	6	N/A	\$3.00	\$18.00
Eye Wash Station	1	4	\$2.00 per day	\$8.00
First Aid Kit	1	4	\$5.00 per day	\$20.00
Full-Face Respirator	3	4	\$5.00 per day	\$60.00
HNU	1	4	\$40.00 per day	\$160.00
Mini-Alert	1	4	\$5.00 per day	\$20.00
SCBA	2	4	\$25.00 per day	\$200.00
Extra Air Bottles (for SCBA)	2	4	\$5.00 per day	\$20.00
Respirator Cartridges	6	N/A	\$6.38	\$38.28
SUBTOTAL				\$664.00
Equipment Shipping Charges: 4 packages X \$100 per package				\$400.00
TOTAL				\$1,064.00

5.0 SCHEDULE

The proposed schedule for completing CTO 55 is summarized below.

MILESTONE TASK COMPLETION DATE

Subcontract Laboratory Procurement	March 6, 1992
Sample Collection and Shipment	March 11, 1992
Verbal Results From Laboratory	March 25, 1992 ¹
Preliminary Sample Data Summary Table to Navy	March 27, 1992 ¹
Hard-Copy Data Package From Laboratory	April 2, 1992 ¹
Data Validation and Submission of Report	May 4, 1992 ¹

Notes:

¹ Date based on subcontract laboratory conformance with the specifications.

RICHARD J. GORRELL

ENVIRONMENTAL SCIENTIST

EDUCATION

Drexel University,
M.S., Environmental Science (in progress)
Pennsylvania State University,
B.S., Environmental Resource Management, 1980

EXPERIENCE

HALLIBURTON NUS Environmental Corporation, 1991 - Present
BCM Engineers, Incorporated, 1987 - 1991
BMY, Division of Harsco Corporation, 1986 - 1987
NUS Corporation, 1984 - 1986
Walter N. Heine Associates, Incorporated, 1982 - 1984
Nassaux - Hemsley, Incorporated, 1981 - 1982

As an Environmental Specialist/Project Manager, Mr. Gorrell is responsible for designing, managing, and implementing technical programs in response to federal and state environmental regulatory compliance requirements.

Mr. Gorrell has extensive experience in hazardous and nonhazardous industrial waste site management and has implemented numerous preliminary assessments, site inspections, extent-of-contamination investigations, clean-up plans, and underground storage tank (UST) management plans. Mr. Gorrell's duties include preparing work plans, sampling and analysis plans, closure plans, remedial investigations, and feasibility studies. In addition, Mr. Gorrell is responsible for project scheduling, preparing technical specifications and cost estimates, identifying, reviewing, and selecting remedial technologies, and selecting and supervising remedial contractors.

Specific environmental management experience includes the following:

- Project Manager for a comprehensive hazardous waste site assessment for three sites located within the proposed U.S. Route 220 right-of-way associated with a major Pennsylvania Department of Transportation (PennDOT) highway construction project. Evaluated site conditions, established site land use history, designed and implemented site characterization and extent-of-contamination studies, identified, evaluated, and proposed remedial measures, and developed estimated total costs to implement remediation.
- Project Manager for a comprehensive hazardous waste site assessment of all properties located along a five-mile proposed U.S. Route 30 right-of-way PennDOT highway construction project. Established land use history of all properties, implemented the initial site characterization study, and coordinated and managed field personnel during site sampling activities that involved over 200 soil, surface water, and sediment samples. Evaluated sample results and historical land use data and designed a second-phase assessment program to define areas of contamination and evaluate appropriate remedial alternatives.

Project Manager for a New Jersey Department of Environmental Protection (NJDEP) Environmental Cleanup Responsibility Act (ECRA) site clean-up program. Developed approved clean-up plan and design specifications, solicited remedial contractor quotations, evaluated bids, awarded contract, conducted construction surveillance/contract management, and provided general environmental project management.

- Project Manager for numerous United States Environmental Protection Agency (EPA) Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) site inspections, site characterizations, and preliminary assessments of abandoned hazardous waste disposal sites. Also wrote numerous Hazard Ranking System reports.
- Project Manager for numerous environmental audits for real estate transactions.
- Project Engineer for a Resource Conservation and Recovery Act (RCRA) hazardous waste UST closure. Prepared a RCRA closure plan and remedial action design specifications for closure of two hazardous waste USTs for a major automobile manufacturer.
- Project Scientist for comprehensive environmental compliance audits for three operational manufacturing facilities owned by a national electronics component manufacturer. Conducted site inspections, interviewed plant personnel, and compiled audit report of findings for corporate environmental program manager.
- Project Coordinator for groundwater assessment program at a major industrial manufacturing facility. Developed a RCRA groundwater assessment plan, proposed contamination plume characterization methods, established a 12-month schedule of implementation for field assessment activities, and implemented initial field studies to identify and characterize potential contamination sources and to delineate the extent of the groundwater contamination plume.
- Project Engineer for numerous NJDEP ECRA clean-up plans. Evaluated results of NJDEP specified sampling plans and wrote applicable clean-up plan documents for numerous industrial properties.
- Project Scientist for Toxic Air Pollutant (TAP) screening and reporting requirements for a major manufacturing site in Maryland. Obtained product use data, process descriptions, and chemical inventories and developed first-tier screening report for TAPs emitted from site. On behalf of client, submitted report to state regulatory agency.
- Project Coordinator for an integrated Preparedness, Prevention, and Contingency/Spill Prevention Contingency and Countermeasure (PPC/SPCC) Plan at a major manufacturing facility. Evaluated site conditions, operating procedures, product inventories, and chemical and waste inventories. Also developed and implemented a small-quantity generator hazardous waste/materials handling plan for a satellite plant.
- Project Scientist for an Industrial Wastewater Discharge Permit application for a coal-processing plant. Development baseline hydrologic data, PPC Plan, and related technical documents.
- Project scientist for numerous surface mine permit applications. Developed hydrologic monitoring programs, erosion and sedimentation control plans, stream encroachment permits, and related technical documents.