CELRB-PE-EE March 20, 2000

Quality Control Plan for In-House Development of Scope of Work

Project: Niagara Falls Storage Site, Lewiston, NY (FUSRAP)

Product Description: Scope of Work (SOW) for Data Management, Environmental Modeling and Risk Communication of the Niagara Falls Storage Site.

Tasks include:

Integration of, evaluation of, and entry into an environmental database, conceptual site and groundwater model design, web-based data visualization, data extraction, spatial and temporal distribution of contaminants and site structures, contaminant trend plots, fate and transport model, monitoring optimization, risk communication, USACE software training, participation in public meetings

Product Coordination: Judith Leithner is the CELRB Project Manager and the point of contact for this product. Fredrick Boglione, Team Leader for the Environmental Engineering Section, will provide functional managerial interface with Judith Leithner for project management purposes. Michelle Rhodes, Project Engineer, is the author of this SOW and will coordinate, with Mrs. Leithner and Mr. Boglione, all scoping questions during the preparation of this SOW.

Contracting Mechanism: HydroGeologic, Inc. is a Cost-Reimbursable Indefinite Delivery Type Contract of the US Army Corps of Engineers Buffalo District.

Client:

Congress, especially local congressman:

Honorable John J. LaFalce, <u>District office</u>: Representative in Congress, 617 Federal Building, 111 W. Huron Street, Buffalo, New York 14202, (716) 846-4065; Fax: (716) 856-3821

Stakeholders: The US Government (property owner), New York State Department of Environmental Conservation, and the United States Environmental Protection Agency will receive a courtesy copy of the Scope, but shall not be included in the formal review.

Product Delivery Team:

Name		Title	Grade
Judith Leithner Ph. D.,	CELRB-PE-EE	Project Manager	GS 12
Fredrick Boglione, P.E	, CERLB-PE-EE	Functional Manager	GS 13
Michelle Rhodes,	CELRB-PE-EE	Project Engineer	GS 05
Christopher Hallam,	CELRB-PE-EA	Health Physicist	GS 12
Alfred Kozminski,	CELRB-PE-EA	Chemist	GS 11
Craig Forget, P.E.,	CELRB-PE-S	Quality Control/Quality Assurance	GS 12

Michelle F. Barczak,

CELRB-OC

Counsel

GS 13

Arleen Kreusch,

CELRB-PA

Public Affairs

Contractor

Supervision of the PDT Members (Team Leaders)

These individuals review the work performed by members of their team (i.e. environmental engineering team, environmental analysis team, etc.) This is a QA check before a product leaves a section team. These individuals, along with the rest of the PDT and ITRT need to be sent electronic copies of the approved QCP, along with QCP updates.

Fred Boglione, P.E.

Environmental Engineering

Dave Conboy, P.E.

Environmental Analysis

Larry Sherman, P.E.

H & H

Note: Branch Chiefs sign off on QCPs. However, the QCP preparer needs to coordinate with the PDT, ITRT, team leaders and branch chiefs to verify they are available and committed to participate as specified in this QCP.

Independent Technical Review (ITR) Team:

A review by a qualified person or team, not affiliated with the development of a project/product, for the purpose of confirming the proper application of clearly established criteria, regulations, laws, codes, principles and professional procedures. It includes the verification of assumptions, methods, and level of complexity of the analysis. It also verifies the alternatives evaluated, appropriateness of data used, reasonableness of the results and functionality of the product relative to the customer's requirements.

The Independent Technical Review (ITR) Team is as follows:

Judy Flint,	CELRB	Hydrologist	GS-12
Dave Brancato,	CELRL	Risk Assessor	GS-12
Mike Barton, P.E.	CELRB	Civil Engineer	GS-12

An ITR Certification Statement, to be used by the team upon completion of their review, is included as an attachment to this QCP.

According to the HTRW Screening Matrix for Category B projects (Table 2), CX Review of this SOW is not required for this type of project.

Division review of this SOW is not required because based on Table B-6-2 of the LRD QMP, approval level of this QCP is with the Buffalo District.

Signatures:

Michelle Rhodes has coordinated with Judy Leithner, Fred Boglione and the Section Team Leaders of the listed team members to verify they are available and committed to participate as specified in this OCP.

Prepared and submitted by:

Michelle C. Khodes

Michelle Rhodes, Chemical Engineer, CELRB-PE-EE

Date

Reviewed by:

Judith S. Leithner	23 February, 2000
Judith S. Leithner, Project Manager, CELRB-PE-EE	Date
VIA	

Frederick L. Boglion	e, Section Tean	n Leader, CEL	RB-PE-EE	Date

Stephen	ny Gabriel	2 March o
Stephen M. Yaks	sich, Branch Chief, CELRB-PE-	A Date
\sim	a / a	

Craig M. Forget, Quality Coordinator CELRB-PE-S

Date

Approved by:

John L. Landahl, Chief, Engineering & Planning Division

3/2 900 Date

Are Marine

Projected Product Schedule:

16 February 2000	-Assemble Boiler Plates
09 March 2000	-Scoping Meeting
23 March 2000	-Receive Scoping Meeting Summary from HydroGeologic
10 April 2000	-Distribute SOW to Product Delivery Team for Team Input
17 April 2000	-Incorporate Product Delivery Team Input
24 April 2000	-Distribute SOW to ITR Team, PDT & Section Team Leader
	Reviewers for Review and Comment
08 May 2000	-ITR & PDT meeting to discuss findings
08 May 2000	-Resolve ITR Team & PDT Comments
22 May 2000	-Product Team & ITR Team Sign-off on Comments
22 May 2000	-Legal signs
22 May 2000	-Deliver SOW to A/E Program Manager for review of SOW &
	Cost Estimate
23 May 2000	-A/E Program Manager (Mike DeJohn) forwards SOW & Cost
	Estimate to Contracting
30 May 2000	-Receive Contractor's Proposal
06 June 2000	-Technical Review of Contractor's Proposal
09 June 2000	-Negotiate with Contractor
16 June 2000	-Award SOW to Contractor, Notice to Proceed

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COMPLETION OF INDEPENDENT TECHNICAL REVIEW

The Buffalo District has completed the Scope of Work (SOW) for a Task Order for Data Management, Environmental Modeling and Risk Communication of the FUSRAP Niagara Falls Storage Site, Lewiston, New York. Notice is hereby given that an independent technical review has been conducted that is appropriate to the level of risk and complexity inherent in the project, as defined in the Quality Control Plan. During the independent technical review, compliance with established policy principles and procedures, utilizing justified and valid assumptions was verified. This included review of assumptions; methods, procedures, and material used in analyses; alternatives evaluated; the appropriateness of data used and level of data obtained; and reasonableness of the results, including whether the product meets the customer's needs consistent with the law and existing Corps policy. The Data Management, Environmental Modeling and Risk Communication review was accomplished by the Niagara Falls Storage Site Product Team; and the independent technical review was accomplished by an independent team.

Michael F. Barton, P.R. Civil Engineer CELRE

Michael 1. Batton, F.D., Civil Engineer, Celevi

Judita E. Flint, Geologist, CELRB

David J. Brancato, Risk Assessor, CELRL

7/26/00 Date

7-27-00 Date

8-01-00

CERTIFICATION OF INDEPENDENT TECHNICAL REVIEW

As noted above, all concerns resulting from independent technical review of the project have been considered. The document has been fully reviewed.

John L. Landahl, P.E., Chief, Planning and Engineering Division

Date