



# RADIAN INTERNATIONAL

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February 7, 2000  
ES-00-02

Mr. Henry Walters, CELRB-CO-NA  
USACE Buffalo District  
1776 Niagara Street  
Buffalo, New York 14207

**SUBJECT:** Baltimore Pre-placed Remedial Action Contract (PRAC)  
Contract No. DACA3 1-96-D-0026, Task Order 0025  
Lake Ontario Ordnance Works  
Final Report Submittal

Dear Mr. Walters:

Radian is pleased to submit three copies of the final report for the above referenced project. The report has been revised to reflect all USACE comments received to date. An errata sheet reflecting the changes made to the draft is attached to this letter.

Thank you for the opportunity to provide these services to you. Should you have any question of comment please contact me at 301-280-2610

Sincerely,

Carl Kohlmeyer  
Project Manager  
Radian Remediation and Operating Services

Enclosure: Errata Sheet  
Final Report

Copy without report to: Ray Pilon (USACE - Buffalo) ✓  
Steve Bowers (USACE - Baltimore)  
Glen Mattingly (USACE - Baltimore)  
Carl Kohlmeyer (Radian)  
John Adzema (Radian)

1/90 Hank / Harold  
Bill K  
Fred B

**REVIEW COMMENTS**  
**DRAFT DEMOBILIZATION AND CLOSURE REPORT**  
**INTERIM REMOVAL ACTION - LAKE ONTARIO ORDNANCE WORKS**  
**(SUBMITTED BY RADIAN INTERNATIONAL, 21 DEC 99)**

<b>COMMENT NUMBER</b>	<b>SECTION</b>	<b>COMMENT</b>	<b>ACTION/RESPONSE</b>
1.	Table of Contents	Correct table numbering per comments 2 - X below.	Concur: The table of contents has been corrected to reflect the table numbering changes.
2.	Section 2 Page 2-2	There is no mention of the by-pass lines discovered in this area. These lines were the original "mystery lines" and should be explained in this section. Describe what was found and how the lines were left. These lines need to be shown on the as-built drawings as well.	Concur, Bypass lines were mentioned in the Table 2-1, and this reference has been expanded to provide more information in the table and associated text.
3.	Section 2 Page 2-3	Table needs to be labeled "Table-2 TNT Line Samples".	Concur: Table references have been revised and made consistent throughout report.
4.	Section 2 Page 2-3	During the sampling, the sample number L25-TSP04-03 appears to have been used twice in Table-2. The first time the sample is mentioned it is in reference to a composite soil sample from Station 9+00 and 25+75. There is no mention of this in the Laboratory Notebook entries, however, there are laboratory results provided for this sample number labeled "TNT Pipeline Soil Stockpile". Table-2 does not detail what sample type was taken. The second time the sample is mentioned it is in reference to the solidified sludge taken from the TNT line. This is accurately reflected in the Laboratory Notebook, however, there are no laboratory results provided. NOTE: I received a fax copy of lab results for sample L25-TSP04-03 on 25 Aug 99 which I was told were for the solidified sludge. These results are very similar to the results provided in Attachment E of this report but not identical.	Concur: The first reference was misidentified and has been deleted. The second reference is correct and the final analytical results have been included. The results are presented in the spread sheet referenced but are of the material in the pipe.

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		Request Radian clarify: a) whether a duplicate sample number was used b) which lab results are which.	
5.	Section 2 Page 2-4	What type of sample was taken for L25-TDL01 -01 ? It appears from the lab results that this was a characterization sample. Please confirm.	Answer: The sample was used to assess material for disposal.
6.	Section 2 Page 2-4	The sample type for sample L25-TDL02-01 is not indicated. There are no laboratory results for sample L25-TDL02-01.	Answer: The sample type was used to assess material for disposal. However, the laboratory had problems analyzing the matrix and final results were not provided.
7.	Section 2 Page 2-6	Check sample L25-WWW05-01 - it appears from the sampling notes that this should be labeled L25-TWW05-01.	Concur: The correct designation is L25-TWW05-01 and this has been changed in the table.
8.	Section 2 Page 2-6	There are no laboratory results for sample L25-WSB01-01	Answer: L25-WSB01-01 was collected and analyzed for pH only. The analysis indicated a pH of 1.78 and the results are included.
9.	Section 3 Page 3-1	Typographical error "5. Disposing of contaminated of "delete second "of".	Concur: This typo has been corrected.
10.	Section 3 Page 3-2	Describe the nature and extent of the lateral lines discovered during work on the CWS line. There was approximately 1,500 linear feet of laterals not expected in the original scope of work.	Concur: Additional text has been added to further describe the laterals.
11.	Section 3 Page 3-3	Clarify date of sample L25-CDS01-01.	Concur: The date has been added. It was July 20,1999
12.	Section 3 Page 3-3	If analysis was not performed on samples L25-CDS02-06 and L25 CDS02-07 please indicate the reason. Need some positive confirmation of what	Answer: The two samples L25-CDS02-06 and L25 CDS02-07 were collected and submitted to the lab to characterize excavated soil piles. They were superseded

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		happened with these samples.	by other sampling activity and were not analyzed. They have been removed from the table.
13.	Section 4 Page 4- 1	Provide laboratory results from sampling of decontamination pad.	Concur: The results for the containment pad have been provided and the text updated.
14.	Section 5 Page 5-1	Typographical error in line-1. "accordance" is spelled wrong. Provide name and address of all disposal facilities.	Concur: This has been corrected, and the names of the disposal facilities have been included.
15.	Section 6 Page 6-1	Format the heading for Section 6 (standardized like other sections)	Concur: Formatting has been revised for consistency.
16.	Section 6 Photographs	Provide an index of the photographs. It is impossible to identify the site locations/details without an index. Recommend identifying each picture by filename and providing a corresponding caption/heading. Delete the photographs of the Niagara Falls Storage Site. <u>These do not belong on this submittal.</u>	Answer: An index of photographs has been provided as Attachment T along with a CD-ROM of the pictures
17.	Section 7 Page 7- 1	The as-built drawings are not satisfactory. CADD-produced as-builts are expected. Require scale as-built drawings detailing the location of the TNT and CWS pipelines, sampling locations (as best determined), and the status of the work done on the lines (indicate where pipes were removed, capped, plugged in place, cleaned in place, location of manholes, lateral pipelines etc). Submit CADD files, one copy of each drawing (re-producible i.e. mylar) and 5 hardcopies. Shade or color code the status of remediation on each line.	Answer: Radian is revising the record drawings to provide the information requested and this will be transmitted under separate cover.
18.	Section 7 Page 7-1	The first sentence is a duplicate from Section 6.	Concur: this has been corrected.

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COMMENT NUMBER	SECTION	COMMENT	ACTION / RESPONSE
19.	Attachment I	Provide analytical results for decontamination pad.	Concur: The results have been provided
20.	Not Found	Describe the contract arrangements in place to perform Hydro-seeding and removal of erosion control in the spring of 2000. This work was not performed due to winter weather. It was agreed Radian would put in place and fund (from project funds) a contract to perform these tasks no later than 15 April 2000 or as soon as weather conditions permit hydro-seeding of the areas disturbed by excavation.	Answer: The contract arrangements will be described under separate cover.
21.	Not Found	Provide payroll data for Modern Disposal Inc., Triple-S Construction, and Radian for the duration of the project.	Concur: Final Certified Payroll was submitted on January 28, 2000.