

TRANSMITTAL OF SHOP DRAWINGS, EQUIPMENT DATA, MATERIAL SAMPLES, OR  
MANUFACTURERS'S CERTIFICATES OF COMPLIANCE

DATE:

08-Sep-99

TRANSMITTAL NO.:

031

SECTION I - REQUEST FOR APPROVAL OF THE FOLLOWING ITEMS (this section will be initiated by the contractor)

TO:

USACE - Buffalo District  
ATT: Hank Walters

FROM:

Radian International LLC  
Buffalo Field Office

CONTRACT NO.:

DACA31-96-D-0026  
D.O. #25

CHECK ONE:

THIS IS A NEW TRANSMITTAL

THIS IS A RESUBMITTAL OF  
SUBMITTAL NO.

SPECIFICATION SECTION NO. (Cover only one section  
with each transmittal) Activity #53 from 4288\*

PROJECT TITLE AND LOCATION:

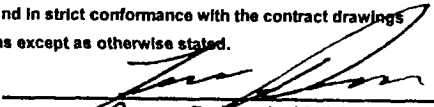
LOOW Lewiston/Porter, NY

| ITEM NO. | DESCRIPTION OF ITEM SUBMITTED<br>(Type, size, model number, etc.) | MFG. OR CONTR. CAT., CURVE DRAWING OR BROCHURE NO. | NO. OF COPIES | CONTRACT REFERENCE DOCUMENT |                   | FOR CONTR. USE CODE | VARIATION | FOR CE USE CODE |
|----------|---|--|---------------|-----------------------------|-------------------|---------------------|-----------|-----------------|
|          |   |  |               | SPEC. PARA. NO.             | DRAWING SHEET NO. |                     |           |                 |
| a.       | b.  | c.   | d.            | e.                          | f.                | g.                  | h.        | i.              |
| 1        | Demo Plan/Structural Assessment                                   |  | 5             |                             |                   |                     |           |                 |
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REMARKS:

RECEIVED SEP 08 1999  
RECEIVED SEP 08 1999

I certify that the above submitted items have been reviewed in detail and are correct and in strict conformance with the contract drawings and specifications except as otherwise stated.

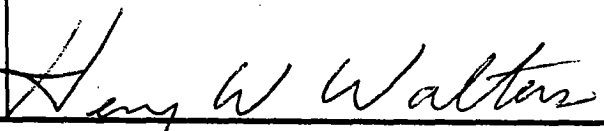
  
C. Davis Wilder  
NAME AND SIGNATURE OF CONTRACTOR

SECTION II - APPROVAL ACTION

ENCLOSURES RETURNED (list by Item No.)

NAME, TITLE AND SIGNATURE OF APPROVING AUTHORITY


DATE:

 C.O.R. 9/13/99

**ROUTING OF SHOP DRAWINGS, EQUIPMENT DATA, MATERIAL SAMPLES, OR MANUFACTURER'S CERTIFICATES  
OF COMPLIANCE FOR APPROVAL**

|   |   |                         |                       |
|---|---|-------------------------|-----------------------|
| 1 | TO: <del>Engineering Division</del><br><b>RAY DELON</b> | FROM: NY-PA Area Office | DATE<br><b>9-8-99</b> |
|---|---|-------------------------|-----------------------|

The attached items listed on ENG Form 4025 are forwarded for approval action.

|  |  |   |
|--|--|---|
| CONTRACT NUMBER<br><b>DACA 31-96-D-0026<sup>20</sup> 25</b>  | CONTRACTOR<br><b>RADREN</b>  |   |
| TRANSMITTAL NUMBER<br><b>091</b>   | PROJECT TITLE AND LOCATION<br><b>LOOW TNT / CHEM PEPELENE</b>                |   |
| COMMENTS (Attach additional sheet, if necessary.)<br><b>RAY, NYPA HAS 2 COPIES YOU HAVE THE REST, COULD YOU GET THESE APPROVED ASAP SO WE CAN DEMO WWTP.</b> |  |   |
| NO. OF ENCL.<br><b>3</b>   | TYPED NAME AND TITLE<br><b>HAROLD LEGGETT III<br/>CONSTRUCTION INSPECTOR</b> | SIGNATURE<br> |

|   |                   |                    |                    |
|---|-------------------|--------------------|--------------------|
| 2 | TO: <b>CARM M</b> | FROM: <b>Ray P</b> | DATE<br><b>9/9</b> |
|---|-------------------|--------------------|--------------------|

COMMENTS (Attach additional sheet, if necessary.)  
**Please review. Needs Design Approval.**

|                          |                      |           |
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| NO. OF ENCL.<br><b>1</b> | TYPED NAME AND TITLE | SIGNATURE |
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COMMENTS (Attach additional sheet, if necessary.)

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| 3 | TO: <b>HAROLD LEGGETT/H. WALTERS<br/>NYPA AO</b> | FROM: <b>JOHN LANDAHL<br/>Ch., E/P DIV</b> | DATE<br><b>9/10/99</b> |
|---|--|--|------------------------|

The following action codes are given to items listed on ENG Form 4025.

**ACTIONS CODES**

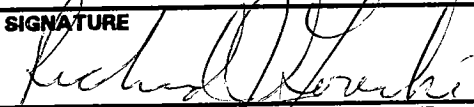
- A - APPROVED AS SUBMITTED.
- B - APPROVED, EXCEPT AS NOTED ON DRAWINGS. RESUBMISSION NOT REQUIRED.
- C - APPROVED, EXCEPT AS NOTED ON DRAWINGS. REFER TO ATTACHED SHEET. RESUBMISSION REQUIRED.

- D - WILL BE RETURNED BY SEPARATE CORRESPONDENCE.
- E - DISAPPROVED (SEE ATTACHED)
- F - RECEIPT ACKNOWLEDGED
- G - OTHER (specify)

ACTION CODES TO BE INSERTED IN COLUMN G, SECTION I, ENG FORM 4025 (Attach sheets, when required.)

|   |           |  |  |  |  |  |  |
|---|-----------|--|--|--|--|--|--|
| ITEM NO.<br><small>(Taken from ENG Form 4025)</small> | <b>31</b> |  |  |  |  |  |  |
| CODE GIVEN  | <b>A</b>  |  |  |  |  |  |  |

REMARKS **RECOMMEND APPROVAL OF THE WWTP DEMO METHODOLOGY.**

|                          |  |   |
|--------------------------|--|---|
| NO. OF ENCL.<br><b>2</b> | TYPED NAME AND TITLE<br><b>JOHN LANDAHL<br/>Ch., E/P DIV</b> | SIGNATURE<br> |
|--------------------------|--|---|

*G. J. L.*



DAMES & MOORE

A DAMES & MOORE GROUP COMPANY

3065 Southwestern Boulevard  
Suite 202  
Orchard Park, NY 14127  
716 675 7130 Tel  
716 675 7137 Fax

To Dave Wilder Company Radian Fax Number 754-0075

From A. J. Nello

Date August 23, 1999

Subject Methodology for the Wastewater Treatment Plant (WWTP) Demolition

No. of Pages 5 (Including Cover Sheet)

DEMOLITION OF THE LAKE ONTARIO ORDNANCE WORKS (LOOW) WWTP

In an effort to support the ongoing demolition activities at the LOOW, the following information is being provided to describe the methods that will be utilized in demolishing the existing, but non-functional, WWTP.

PRE-DEMOLITION ACTIVITIES

General Building Description

The present condition of the WWTP is partial ruin. The structure consists of five, below-grade, rectangular tanks of masonry construction. Three of the five below-grade tanks comprise the pit, which is covered by an above-grade, timber-framed structure with wood siding. The other two tanks make up the wet well, which is separated by a masonry wall supporting a wooden walkway. The pit structure is a mixed design consisting of brick and concrete approximately 20 to 25 feet deep. The wet wells are shallower (6-8 feet) with a similar mixed construction. The attached sketch is a plan view of the existing WWTP layout.

This message is intended only for the use of the individual or entity to which it is addressed, and may contain information that is privileged, confidential, and exempt from disclosure under applicable law. If the reader of the message is not the intended recipient, or the employee or agent responsible for delivering the message, you are hereby notified that any dissemination, distribution or copying of the communication is strictly prohibited. If you have received this communication in error, please notify us immediately by telephone and return the original message to us at the above address via the U.S. Postal Service

APPROVAL RECOMMENDED 9/10/99 Date Initials [Signature]
APPROVAL RECOMMENDED 9/13/99 Date Initials [Signature]
SUBJECT TO COMMENT INDICATED


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| TRANSMITTAL NUMBER<br><b>031</b>                              | PROJECT TITLE AND LOCATION<br><b>LOOW TNT / CHEM PIPELINE</b> |

COMMENTS (Attach additional sheet, if necessary.)  
**RAY, NYPA HAS 2 COPIES YOU HAVE THE REST, COULD YOU GET  
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| NO. OF ENCL.<br><b>3</b> | TYPED NAME AND TITLE<br><b>HAROLD LEGGETT III<br/>CONSTRUCTION INSPECTOR</b> | SIGNATURE<br> |
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COMMENTS (Attach additional sheet, if necessary.)

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COMMENTS (Attach additional sheet, if necessary.)

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| <b>ACTIONS CODES</b><br><br><b>A - APPROVED AS SUBMITTED.</b><br><b>B - APPROVED, EXCEPT AS NOTED ON DRAWINGS.</b><br>RESUBMISSION NOT REQUIRED.<br><b>C - APPROVED, EXCEPT AS NOTED ON DRAWINGS.</b><br>REFER TO ATTACHED SHEET. RESUBMISSION REQUIRED. | <b>D - WILL BE RETURNED BY SEPARATE CORRESPONDENCE.</b><br><b>E - DISAPPROVED (SEE ATTACHED)</b><br><b>F - RECEIPT ACKNOWLEDGED</b><br><b>G - OTHER (specify)</b> |
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| ITEM NO.<br><small>(Taken from ENG Form 4025)</small> |  |  |  |  |  |  |  |  |  |
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REMARKS

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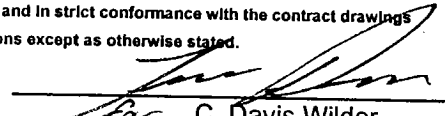
LOOW Lewiston/Porter, NY

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C. Davis Wilder  
NAME AND SIGNATURE OF CONTRACTOR

SECTION II - APPROVAL ACTION

ENCLOSURES RETURNED (list by Item No.)

NAME, TITLE AND SIGNATURE OF APPROVING AUTHORITY

DATE:

# Fax Sheet



**DAMES & MOORE**

A DAMES & MOORE GROUP COMPANY

3065 Southwestern Boulevard  
Suite 202  
Orchard Park, NY 14127  
716 675 7130 Tel  
716 675 7137 Fax

---

| To          | Company | Fax Number |
|-------------|---------|------------|
| Dave Wilder | Radian  | 754-0075   |

From A. J. Nello

Date August 23, 1999

Subject Methodology for the Wastewater Treatment Plant (WWTP) Demolition

No. of Pages 5 (Including Cover Sheet)

## DEMOLITION OF THE LAKE ONTARIO ORDNANCE WORKS (LOOW) WWTP

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## **Demolition Permit**

In order to begin demolition of the WWTP, a permit was needed. The WWTP is owned by Chemical Waste Management (CWM), and although most of CWM's property is located in the town of Porter, the WWTP lies in the town of Lewiston. The town of Porter building inspector was informed of this fact through a conversation with a CWM manager. As a result, the town of Lewiston building inspector was contacted to issue the demolition permit. Assuming the following articles are submitted, the permit will be issued: (1) a cost estimation of the demolition work, (2) a certificate of insurance from Radian, who is performing the work, and (3) a letter from a town of Lewiston waste water authority engineer, confirming that the demolition of the WWTP will not impact any existing pipelines in the vicinity of the structure.

## **DEMOLITION ACTIVITIES**

### **Utility Abandonment**

Existing utilities are disconnected, but a utility pole still stands behind the wood frame structure of the WWTP. The utility pole will be removed coincidentally with the demolition of the WWTP.

### **Closure of Connecting Pipelines**

Connecting pipelines will be closed by means of grouting in place. Visual inspection of the WWTP has revealed a single, previously sealed pipeline entering the north wall of the easternmost pit (see sketch). Verification of the condition of the seal will be established by video inspection. An inappropriate seal would indicate signs of excessive spalling of the seal mortar and/or excessively loose aggregates. If the seal is determined to be inappropriate it will be partially removed, and the pipe subsequently resealed with CLSM during backfilling of the pit.

### **Treatment Plant: Above-Grade Structure**

The above-grade portion of the treatment plant consists of a timber structure covering approximately 364ft<sup>2</sup> (14ft x 26ft). Additional walls consist of a 14ft wide partition within the main structure, a wall extending east from the south side of the plant, and a partial wall extending north along the east side of the pit. The main structure covers two of three below-grade tanks that comprise the pit. Additionally, a wooden walkway sits atop the masonry partition wall separating the two wet wells.

Demolition of the above-grade portion of the facility will entail removing the timber structure and walkway. The timber portion is in a condition that will not allow personal access. Thus, remote demolition will be required. Remote demolition will be performed by use of a track mounted excavator outfitted with a grapple. Beginning with the roof, the equipment operator will position the grapple such that a portion of the wooden

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grade. The rubble created from the wall demolition will be allowed to fall to the bottom of the pit where it will remain until encased with backfill materials described in the following section.

#### **Backfilling Pit**

The pit area will be backfilled with CLSM to an elevation approximately two feet below grade. Additional backfill consisting of natural fill similar to that found in the peripheral area will be used to bring the area within six inches of finish grade.

#### **Wet Well Demolition**

The wet well is located below grade on the west side of the WWTP. It covers approximately 1600 ft<sup>2</sup> (40ft x 40ft), and it is sectioned in two by a wall. The contents of the well is assumed to be similar to that of the pit, consisting of liquid and sediment on the bottom of the tank. Using a similar methodology to the pit demolition, the liquid will be pumped into above ground holding tanks, and then both wastes will be analyzed for the appropriate parameters. Depending on the results of the analysis, each waste may be released to the environment or shipped to the appropriate treatment/disposal facility. An excavator will be used to remove the sediment from the bottom of the wells.

#### **Fracturing Well**

To render the wet well incapable of retaining water, the floor and walls will be demolished. Fracturing of the floor and walls will be accomplished by use of a track mounted excavator outfitted with a demolition hammer. The maximum dimension of any fractured pieces will not exceed 1.5ft in any direction. All rubble material will be placed within the existing wet well footprint.

#### **Backfilling Well**

The wet well area will be backfilled with CLSM to an elevation approximately two feet below grade. All rubble material created during demolition will remain in the well during CLSM placement. Additional backfill consisting of natural fill similar to that found in the peripheral area will be used to bring the area within six inches of finish grade.

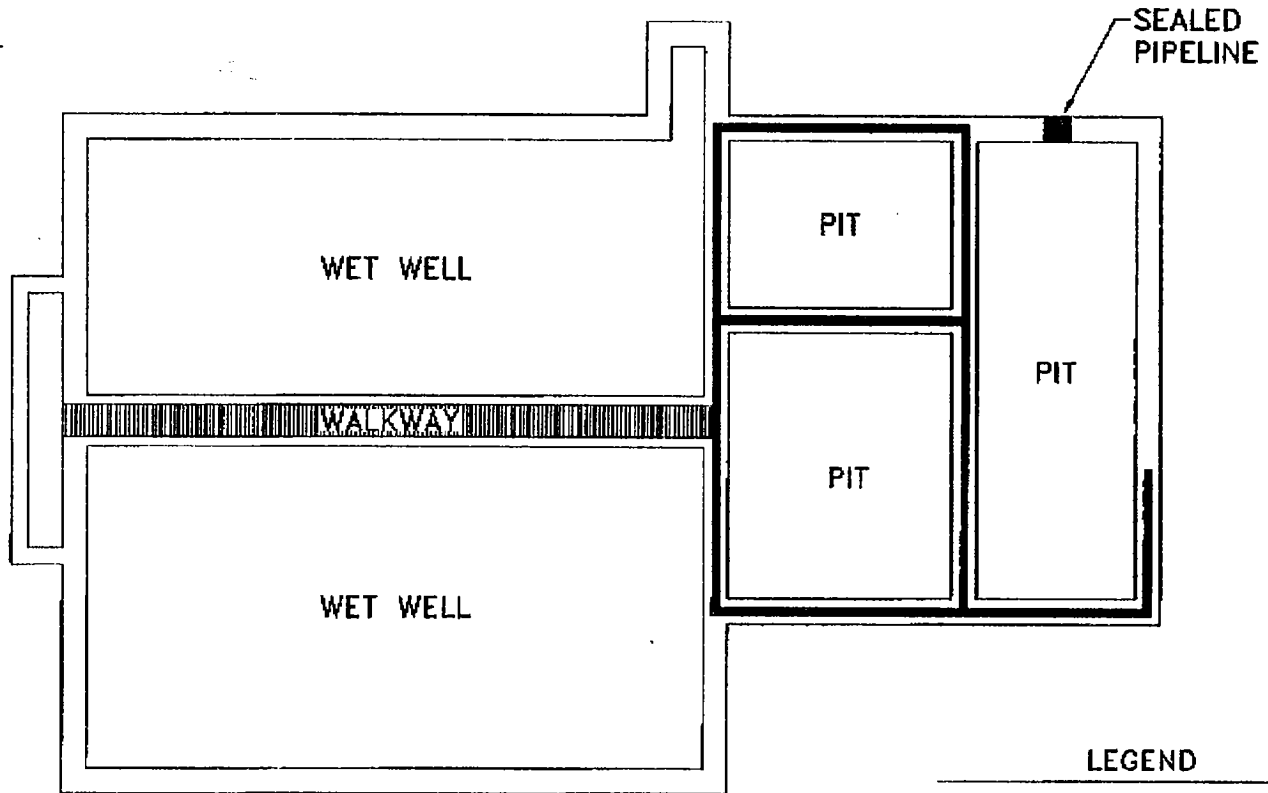
#### **GRADING AND SEEDING**

Finish grade will be accomplished by placing topsoil over the backfilled area. Seeding will be performed in accordance with the vegetative stabilization specifications detailed on the following project drawing: Dwg # F-833-90-10, Sheet 7 of 7; Supplement to the 60% Remedial Design (Revised), Operable Unit, Erosion and Sedimentation Control Details and Notes, TNT Pipeline and Chemical Waste Sewer.

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JEB:99:W:\DWGS\100WPI15.DWG



LEGEND  
— EXISTING WOOD STRUCTURE

Sketch of Wastewater Treatment Plant - Plan View