Corporate Finance Department
*Materials Management Branch*

# 291-2006 ADDENDUM 7

**NORTH END WATER POLLUTION CONTROL CENTRE**
**CENTRATE NUTRIENT TREATMENT – NITROGEN REMOVAL FACILITY**

ISSUED: August 3, 2006
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**URGENT**

**PLEASE FORWARD THIS DOCUMENT TO WHOEVER IS IN POSSESSION OF THE BID OPPORTUNITY**

**THIS ADDENDUM SHALL BE INCORPORATED INTO THE BID OPPORTUNITY AND SHALL FORM A PART OF THE CONTRACT DOCUMENTS**

Template Version: A20050301

**Please note the following and attached changes, corrections, additions, deletions, information and/or instructions in connection with the Bid Opportunity, and be governed accordingly. Failure to acknowledge receipt of this Addendum in Paragraph 10 of Form A: Bid may render your Bid non-responsive.**

## PART E – SPECIFICATIONS

Add: Geotechnical August 1, 2006 Letter (For Information Only)

Section 01010 Revise: Clause 1.3.5 to read: Install and make operational the process air blower system allow aeration system testing prior to the SBR being fully covered.

Section 01010 Delete: Clause 1.3.6

Section 02220 Revise: Clause 2.1.3.2 to read: Type 2: granular drain material shall consist of clean, processed granular material (pea-gravel), ranging in size from 5 mm to 19 mm. The material shall be free from sod, roots, organics, snow, and any other deleterious material.

Section 02220 Add: Clause 3.4.1.1: Design the shoring required to protect the road along the north side of the excavation for any construction loads as well as frequent use by sludge trucks with the following dimensions and loading:

Overall Length: 20 m
Tanker – Tridem Axle
Tractor – Steering Axle, Tandem Axle
Tare Weight – 16,000 kg
Maximum Gross Weight – 47,000 kg
Axle Weights
Steering Axle – 5,500 kg
Tandem Axle – 17,000 kg
Tridem Axle – 24,000 kg

Section 07465 Revise: Clause 2.1.2 to read: Prepainted with Colorite 8000 Series, one side. Colour to match prefinished metal cladding on existing adjacent buildings with approval by Contract Administrator.

Section 07620 Revise: Clause 2.1 to read: Sheet Metals

.1 Galvanized steel: minimum 22 Ga core steel; conforming to requirements of ASTM A525 G90 Galvanized Coating.

.2 Prefinished galvanized flashing: ASTM A446; G90 zinc coating; 22 Ga core steel; shop precoated; Colour to match prefinished metal flashing on existing adjacent buildings with approval by Contract Administrator.

Section 09900 Revise: Clause 1.2.7 “Division 13” to read “Division 11”

Section 11055 Revise: TCE

| **PIPE** | | | | | |
|---|---|---|---|---|---|
| LOCATION | SIZE (mm) | MATERIAL | RATING | SPECIFICATIONS | REMARKS |
| Submerged | ≥75 | 316L SS | Std. Wt. | | Note 2. |

To read:

| **PIPE** | | | | | |
|---|---|---|---|---|---|
| LOCATION | SIZE (mm) | MATERIAL | RATING | SPECIFICATIONS | REMARKS |
| Submerged | 75 | 316L SS | Coordinate with Decanter Supplier (ITT Sanitaire) | | Note 2. |

Section 13050 Revise: Clause 2.1.9 to read: Provide pressure and vacuum relief valves CV-725 and CV-755.

.1 Provide pressure and vacuum relief valves (PVSVs) suitable for freezing winter conditions for methanol storage tanks to vent methanol vapour to atmosphere to relieve excess pressure from the tanks; conversely when a vacuum develops in the methanol tank and exceeds the vacuum setting, the valve opens allowing air into the tanks, relieving the vacuum condition.

.2 PVSVs shall be designed for use with atmospheric and low pressure storage tanks and meet American Petroleum Institute (API) Standards 2000.

.3 Pressure and vacuum relief valve (PVSVs) shall be an “all weather” model type for extreme freezing, heavy snow, hot and humid climatic conditions.

.4 Provide “all weather” coatings on valves and guides to achieve non-frosting and icing-resisting, along with flexible Teflon seat insert to provide additional protection against freezing closed. Any standing water on the vent surface is not acceptable.

.5 Provide a separate protection plate and install 200 mm above each PVSV with proper strength and size to protect PVSVs against snow accumulating and hail. The plates shall be carbon steel and supported from the vertical vent pipe.

.6 PVSVs to be Varec model 2011B or equal

.7 Capacity and Performance

.1 The PVSVs shall be minimum 80 mm nominal diameter.

.2 Outbreathing capacity: 100 $Nm^3$/hr at pressure drop of less than 2 kPa

.3 Inbreathing capacity: 12 $Nm^3$/hr at pressure drop of less than 0.5 kPa

.4 Set pressure and vacuum as specified in the Drawings.

.8 Materials

.1 Fabricate pressure and vacuum relief valves of the following materials:

.1 Body: 316 Stainless Steel or Carbon Steel

.2 Seat: flexible Teflon

Section 15999 Revise: Clause 1.2 C530-EF Control: “VFD” to read: “On/Off”

Section 15999 Revise: Table 1.8 Pre-packaged Pump Stations Schedule

| **Tag** | **C570-SMP-1** | **C570-SMP-2** |
|---|---|---|
| Capacity, L/s (USgpm) | 54.9 | 54.9 |
| Total Head, m (ft wc) | 35 | 35 |

| **Tag** | **C571-SMP-1** | **C572-SMP-2** |
|---|---|---|
| Capacity, L/s (USgpm) | 54.9 | 54.9 |
| Total Head, m (ft wc) | 35 | 35 |

To read:

| **Tag** | **C570-SMP-1** | **C570-SMP-2** |
|---|---|---|
| Capacity, L/s (USgpm) | 5.0 (80) | 5.0 (80) |
| Total Head, m (ft wc) | 11 (35) | 11 (35) |

| **Tag** | **C571-SMP-1** | **C572-SMP-2** |
|---|---|---|
| Capacity, L/s (USgpm) | 5.0 (80) | 5.0 (80) |
| Total Head, m (ft wc) | 11 (35) | 11 (35) |

Section 17700 Replace: Instrument Index (R2)

**DRAWINGS**

Replace: Drawing A3-01-R2 with Drawing A3-01-R3

Drawing A3-02-R1 with Drawing A3-02-R2