



December 26, 2013
Project No. 361M076113

Toxics Cleanup Program
Southwest Regional Office
PO Box 47775
Olympia, WA 98504-7775

Attention: Mohsen Kourehdar, P.E.

Subject: Outfall Evaluation for NPDES Permit No. WA0040967
Vancouver, Washington

Dear Mohsen:

On behalf of TOC Holdings Co., AMEC Environment & Infrastructure, Inc. (AMEC) submits this annual Outfall Evaluation in fulfillment of Section S9 of National Pollutant Discharge Elimination System (NPDES) Permit No. WA0040967. The outfall discharges water treated during remediation activities occurring at the Handy Andy #8 petroleum release site. The permitted outfall is located along Burnt Bridge Creek below a property at 2818 NE Cherry Road in Vancouver, Washington. Refer to the Operations and Maintenance Manual (AMEC 2013) for a complete description of the remediation activities covered under the above-referenced NPDES permit.

On December 20, 2013, AMEC staff inspected the outfall pipe, its integrity and continued function in accordance with the NPDES waste discharge permit. An evaluation sheet and photograph taken of the outfall structure are attached. The physical condition of the outfall structure, including the P-trap (U-turn) at the top of the discharge pipe, the surrounding protective cage, concrete foundation, and diffusing rock arranged below the outfall pipe all appear to be in good condition and functioning as designed. There is no evidence of sediment accumulation inside the discharge pipe, in the P-trap and on the surrounding splash block/rock. The discharge pipe, P-trap and diffusing rock appear to be free of obstructions and are allowing uniform flow.

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Please contact the undersigned with any questions concerning this outfall evaluation.

Sincerely,

AMEC Environment & Infrastructure, Inc.

A handwritten signature in dark ink, appearing to read "Jack Spadaro".

Jack Spadaro, PhD, CHMM
Project Manager

REVIEWED BY:

A handwritten signature in dark ink, appearing to read "Paul Stull III".

Paul Stull III, PE
Associate Engineer

Attachments: Outfall Evaluation Form and photograph

JS/jf

c: Mark Chandler, TOC Holdings Co.

Annual Outfall Inspection - 2013

TOC Holdings Co. - HANDY ANDY #8

HANDY ANDY #8 - TOC Holdings No. 01-115
Vancouver, Washington

Field Personnel: Jason Gardner / Melissa Rockamp

Project #:	361M076113.01.1
Project Mgr:	Jack Spadaro
Date:	12/20/2013
Time:	11:30

NPDES Permit No. WA0040967

Treated Water Outfall #001: Located at Burnt Bridge Creek below 2818 NE Cherry Road, Vancouver, WA

Inspection Items	Arrival Yes/No	Departure Yes/No	Actions or Recommendations
Outfall Pipe is Open	Yes	Yes	
Outfall Pipe is Clear of Heavy Iron Fouling (iron gel)	yes	yes	
Outfall Cage is Tight to Base	yes	yes	
Outfall Cage is Clear of Debris	yes	yes	
Outfall Cage is Clear of Plant Growth	no	yes	
Outfall Base is Stable	yes	yes	
Outfall Diffusing Rock in Place	yes	yes	
Outfall Base is Clear of Heavy Iron Fouling (iron gel)	yes	yes	

Site Inspection Photograph



Photograph Note: Photo of the outfall during the inspection. Note that vegetation has been removed and structures is clear and draining normally (out to the right of the photo).

General Notes:
