

APR 24 2007
WATER QUALITY PROGRAM

SO3-001151D
INDUSTRIAL STORMWATER GENERAL PERMIT
DISCHARGE MONITORING REPORT

MONITORING PERIOD for 2007 Jan/Feb/Mar Apr/May/June Jul/Aug/Sep Oct/Nov/Dec
 (year/quarter): year X

Facility/Site Information

TOTEM OCEAN TRLR EXP TOTE ALASKA TE
 Location: 500 EAST ALEXANDER AVE
 PORT OF TACOMA
 County: PIERCE

Mailing Information

TOTEM OCEAN TRAILER EXPRESS
 500 EAST ALEXANDER AVE
 TACOMA, WA 98421-4217

Primary SIC Code: 4424

You must send a Discharge Monitoring Report (DMR) to Ecology **every quarter**. If there was **no discharge** or you have **suspended sampling** because of consistent attainment of benchmark values, mark the appropriate boxes and send the DMR to Ecology. Please read the instructions before completing the DMR.

Discharge Point		004				
Quarterly Monitoring		AVERAGE	MAXIMUM	UNITS	Sample Type	Events Sampled
Turbidity	Consistent Attainment		6.8	NTU	Grab	1
pH	Consistent Attainment		6.07	Standard Units	Grab	1
Zinc (total)	Consistent Attainment		190	µg/L	Grab	1
Copper	Consistent Attainment		11	µg/L	Grab	1
Lead	Consistent Attainment		ND	µg/L	Grab	1
Oil & Grease	Consistent Attainment		ND	mg/L	Grab	1
Total Suspended Solids	Consistent Attainment		54	mg/L	Grab	1

Discharge Point		003				
Quarterly Monitoring		AVERAGE	MAXIMUM	UNITS	Sample Type	Events Sampled
Turbidity	Consistent Attainment		37	NTU	Grab	1
pH	Consistent Attainment		7.0	Standard Units	Grab	1
Zinc (total)	Consistent Attainment		150	µg/L	Grab	1
Oil & Grease	Consistent Attainment		ND	mg/L	Grab	1
Total Suspended Solids	Consistent Attainment		47	mg/L	Grab	1

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 USC § 1001 AND 33 USC § 1319. (PENALTIES UNDER THESE STATUES MAY INCLUDE FINES UP TO \$10,000.00 AND OR MAXIMUM IMPRISONMENT OF BETWEEN SIX MONTHS AND FIVE YEARS.)

Rand Lymangrover,
Operations – Special Projects

NAME/TITLE PRINCIPAL EXECUTIVE OFFICE (TYPED OR PRINTED)

DATE/ MO DAY YEAR

4/20/07



SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

253-238-8487

TELEPHONE NUMBER

COMMENTS/EXPLANATIONS

The sampling event was conducted on March 22 and 23, 2007. Due to high tidal conditions, it was necessary to sample in the catch basin immediately prior to outfall #4. We sampled Outfall #3 at the catch basin immediately upline from the outfall, directly below the catch basin insert treatment.

The zinc concentration in both samples was above the benchmark level. Turbidity was above the benchmark at Outfall #3 and TSS was above the action level at Outfall #3. This was the first exceedence of benchmarks for turbidity and action level for TSS. All other analytes were under the benchmark, and pH was within range. A Level One Response was conducted, and the summary is attached.

MEMORANDUM



206 624 9349 Phone
206 624 2839 Fax
www.retec.com

TO: Rand Lymangrover
FROM: Evan Andrews
DATE: 4/10/2007

CLIENT: Totem Ocean Trailer Express
TASK: TOTE1-19550-200
RE: Level One Response Inspection

The stormwater sample taken March 22 and 23 from Outfalls 004 and 003, respectively, of Totem Ocean Trailer Express (TOTE) had zinc results above the benchmark levels. The laboratory results, dated 3/28/2007, reported zinc at 190 $\mu\text{g/L}$ at outfall 004 and 150 $\mu\text{g/L}$ at outfall 003. These levels are above the zinc benchmark of 117 $\mu\text{g/L}$. At outfall 003, TSS was above the action level and turbidity was above the benchmark.

Level One Response Inspection

The Level One Response was conducted on April 10, 2007. The TOTE facility operates Roll-on/Roll-off cargo ship transportation services, where cargo trailers, vehicles, or equipment are driven onto the ship and secured for transport.

The likely source of zinc impacting Outfall 004 is fugitive dust from TOTE's neighbor to the south, Iru-Grit. The fugitive dust collects along the backside of the Maintenance Building, in the same area that drains to Outfall 004.

Most of the potential sources of zinc reported by a recent Washington State Department of Ecology publication (2006) were observed at the TOTE facility. These sources included a perimeter chain-link fence, vehicles (personnel, service, and for shipping) whose tires and brakes may be sources of zinc, cargo containers and associated equipment (chassis, generators, refrigeration units), tires and hub caps in storage, transformers, metal buildings and canopied truck lanes with downspouts, and general equipment (steel pieces, drums, metal dumpsters).

Source Control/Operational Control Recommended Measures

Based on a previous Level One Response inspection, it was recommended that TOTE remove the fugitive dust collecting (from off-site sources) behind the maintenance building. In addition, it was recommended that Tote hand sweep areas that are not accessible by the street sweeper. This is being done routinely. The TSS and Turbidity exceedence were not attributed to any single source during the storm event.

Tote has completed a number of control measures. These include removing chain link fence rolls, sweeping behind the maintenance building where fugitive dust from the neighbor's property accumulates, and cleaning the catch basin filter bags. Tote may consider cleaning the filter bags more frequently. Currently no changes to the SWPPP are warranted regarding zinc. Based on sampling results there is no need to conduct a Level Two or Three Response.

References

Washington State Department of Ecology, 2006. *A Survey of Zinc Concentrations in Industrial Stormwater Runoff* Publication No. 06-03-009. January 2006.