

POSTED  
 DATE: 09/21/07  
 INITIALS: JK

SO3-000570D

INDUSTRIAL STORMWATER GENERAL PERMIT  
 DISCHARGE MONITORING REPORT

MONITORING PERIOD for (year/quarter): 2005 Jan/Feb/Mar Apr/May/June Jul/Aug/Sep Oct/Nov/Dec  
year

Facility/Site Information

~~SOLVAY INTEROX~~ SOLVAY CHEMICALS, INC.  
 Location: 3500 INDUSTRIAL WAY  
 County: COWLITZ

Primary SIC Code: 2819

Mailing Information

~~SOLVAY INTEROX~~ SOLVAY CHEMICALS, INC.  
 3500 INDUSTRIAL WAY  
 LONGVIEW WA 98632-8213 9482

Department of Ecology  
 Water Quality Program

FEB 16 2006

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 <u>4 - SOUTHEAST OUTFALL (OUTFALL-SE)*</u>						
There was no qualifying storm event this quarter so no values are entered below (see explanation)						
Quarterly Monitoring		AVERAGE	MAXIMUM	UNITS	Sample Type	Events Sampled
pH	Consistent Attainment		7.31	Standard Units	Grab	
Zinc (total)	Consistent Attainment		345	µg/L	Grab	
Oil & Grease	Consistent Attainment		ND	mg/L	Grab	
Nitrate/Nitrite as N	Consistent Attainment		0.59	mg/L	Grab	
Phosphorus (TP)	Consistent Attainment		0.08	mg/L	Grab	
BOD5	Consistent Attainment		ND	mg/L	Grab	

Monitoring associated with impaired waterbodies:

Discharge Point <u>4 - SOUTHEAST OUTFALL (OUTFALL-SE)*</u>						
There was no qualifying storm event this quarter so no values are entered below (see explanation)						
Quarterly Monitoring		AVERAGE	MAXIMUM	UNITS	Sample Type	Events Sampled
Turbidity	Consistent Attainment		9.3	NTU	Grab	
Oxygen, Dissolved (DO)	Consistent Attainment		10.68	mg/L	Grab	

Additional Metal Sampling:

Discharge Point <u>4 - SOUTHEAST OUTFALL (OUTFALL-SE)*</u>						
Quarterly Monitoring		AVERAGE	MAXIMUM	UNITS	Sample Type	Events Sampled
Copper (Total)			ND	µg/L	Grab	
Lead (Total)			ND	µg/L	Grab	
Hardness			50.1	mg/L	Grab	

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 STATUTES MAY INCLUDE FINES UP TO \$10,000.00 AND OR MAXIMUM IMPRISONMENT OF BETWEEN SIX MONTHS AND FIVE YEARS.)

ROBERT R MAY, MANUF. MGR/SITE COORDINATOR

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER (TYPED OR PRINTED)

Feb. 13, 2006

DATE: MO DAY YEAR



SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

(360) 425-1114

TELEPHONE NUMBER

COMMENTS / EXPLANATIONS

\*The discharge point was noted as discharge point "4" on the "Receiving Water Information and Declaration of Mixing Zone" form.



# SOLVAY CHEMICALS

INTEROX, FLUORIDES & MINERALS

Joyce M. Smith  
Industrial Stormwater Permit Coordinator  
Washington State Department of Ecology  
PO Box 47696  
Olympia, WA 98504-7696

RE: Level One Source Control Report for Samples Above the Benchmark Value for Zinc at the Solvay Chemicals, Inc. Facility in Longview, WA

Dear Ms. Smith:

Enclosed is the Level One Source Control Report for samples above the benchmark value for zinc at the Solvay Chemicals, Inc. facility in Longview, WA. The zinc value obtained during the fourth quarter of 2005 was above the benchmark value, which prompted this report.

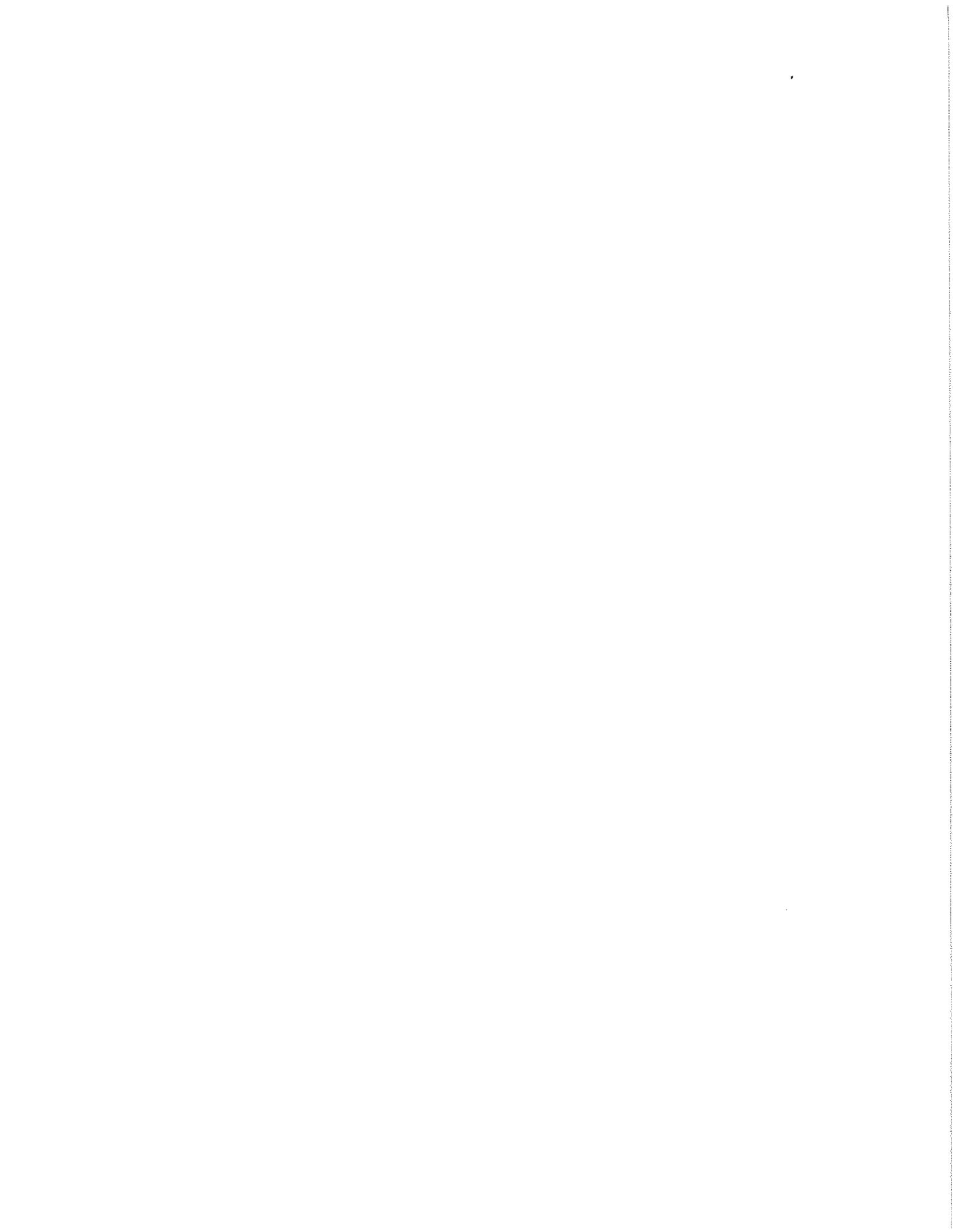
In addition, we have enclosed analysis results for copper, lead, and hardness for the third quarter 2004 through the third quarter 2005. As described in section S4.D.3 in "The Industrial Stormwater General Permit" (effective 1/14/2005), additional metals sampling is required if the value for total zinc exceeds the benchmark value for two consecutive quarters. This analysis was completed, but the results were not reported on the original "Industrial Stormwater General Permit Discharge Monitoring Reports" filed for the quarters listed above.

If you have any questions or require additional information, please feel free to contact me at 360-577-7567.

Best regards,

Alicia B. Fuentes

Technical Services Manager



# Summary of Solvay Chemicals, Inc. Facility Inspection in Response to Sample Results Above Benchmark Values for Zinc

**Date Inspection Conducted: 12/21/05**

**Inspector: Alicia Fuentes**

## Summary

This inspection did not yield any new potential sources of zinc than the previous inspections conducted in 2005. Possible sources of zinc are galvanized materials that come into contact with stormwater: storm drain piping, the fence surrounding the facility, light posts, structural steel (nearly all stormwater that contacts structural steel at the facility is collected and treated as process wastewater), and barricades. Another possible source for zinc is the asphalt paved areas of the plant. However, galvanized steel or asphalt will typically not leach zinc into water unless the pH is acidic, and the pH of our stormwater samples have been between 6.8-7.7. Solvay America's Environmental Manager researched zinc levels in soil in the area, and found that the zinc concentration in soil is highly dependent on whether land has been previously cultivated. If the land has been cultivated, zinc levels can typically be several orders of magnitude higher than if the land has not been cultivated. Zinc is a common component of fertilizer, and since our site was once part of the Mint Farm in Longview, this may be contributing to the zinc in stormwater that runs off of our site.

No remedial actions were taken to control these potential sources of zinc.

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ROBERT R. MAY, MANUF. MGR/SITE  
Name/Title Principle Executive Officer  
Date: Mo Day Year  
Feb. 13 2006  
COORDINATOR

  
Signature of Principal Executive Officer or Authorized Agent  
(360) 425-1114  
Telephone Number



Facility/Site Information  
 SOLVAY CHEMICALS, INC.  
 Location: 3500 INDUSTRIAL WAY  
 County: COWLITZ  
 Primary SIC Code: 2819

Mailing Information  
 SOLVAY CHEMICALS, INC.  
 3500 INDUSTRIAL WAY  
 LONGVIEW WA 98632-9482

**Third Quarter 2005**

Additional Metal Sampling:

<b>Discharge Point: 4 - SOUTHEAST OUTFALL (OUTFALL - SE)*</b>						
Quarterly Monitoring		AVERAGE	MAXIMUM	UNITS	Sample Type	Events Sampled
Copper (Total)	Consistent Attainment		10.4		Grab	
Lead (Total)	Consistent Attainment		ND		Grab	
Hardness	Consistent Attainment		45.8		Grab	

**Second Quarter 2005**

Additional Metal Sampling:

<b>Discharge Point: 4 - SOUTHEAST OUTFALL (OUTFALL - SE)*</b>						
Quarterly Monitoring		AVERAGE	MAXIMUM	UNITS	Sample Type	Events Sampled
Copper (Total)	Consistent Attainment		ND		Grab	
Lead (Total)	Consistent Attainment		ND		Grab	
Hardness	Consistent Attainment		49.6		Grab	

**First Quarter 2005**

Additional Metal Sampling:

<b>Discharge Point: 4 - SOUTHEAST OUTFALL (OUTFALL - SE)*</b>						
Quarterly Monitoring		AVERAGE	MAXIMUM	UNITS	Sample Type	Events Sampled
Copper (Total)	Consistent Attainment	ND			Grab	
Lead (Total)	Consistent Attainment	ND			Grab	
Hardness	Consistent Attainment	24.7			Grab	

**Fourth Quarter 2004**

Additional Metal Sampling:

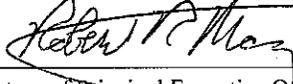
<b>Discharge Point: 4 - SOUTHEAST OUTFALL (OUTFALL - SE)*</b>						
Quarterly Monitoring		AVERAGE	MAXIMUM	UNITS	Sample Type	Events Sampled
Copper (Total)	Consistent Attainment		ND		Grab	
Lead (Total)	Consistent Attainment		ND		Grab	
Hardness	Consistent Attainment		14.8		Grab	

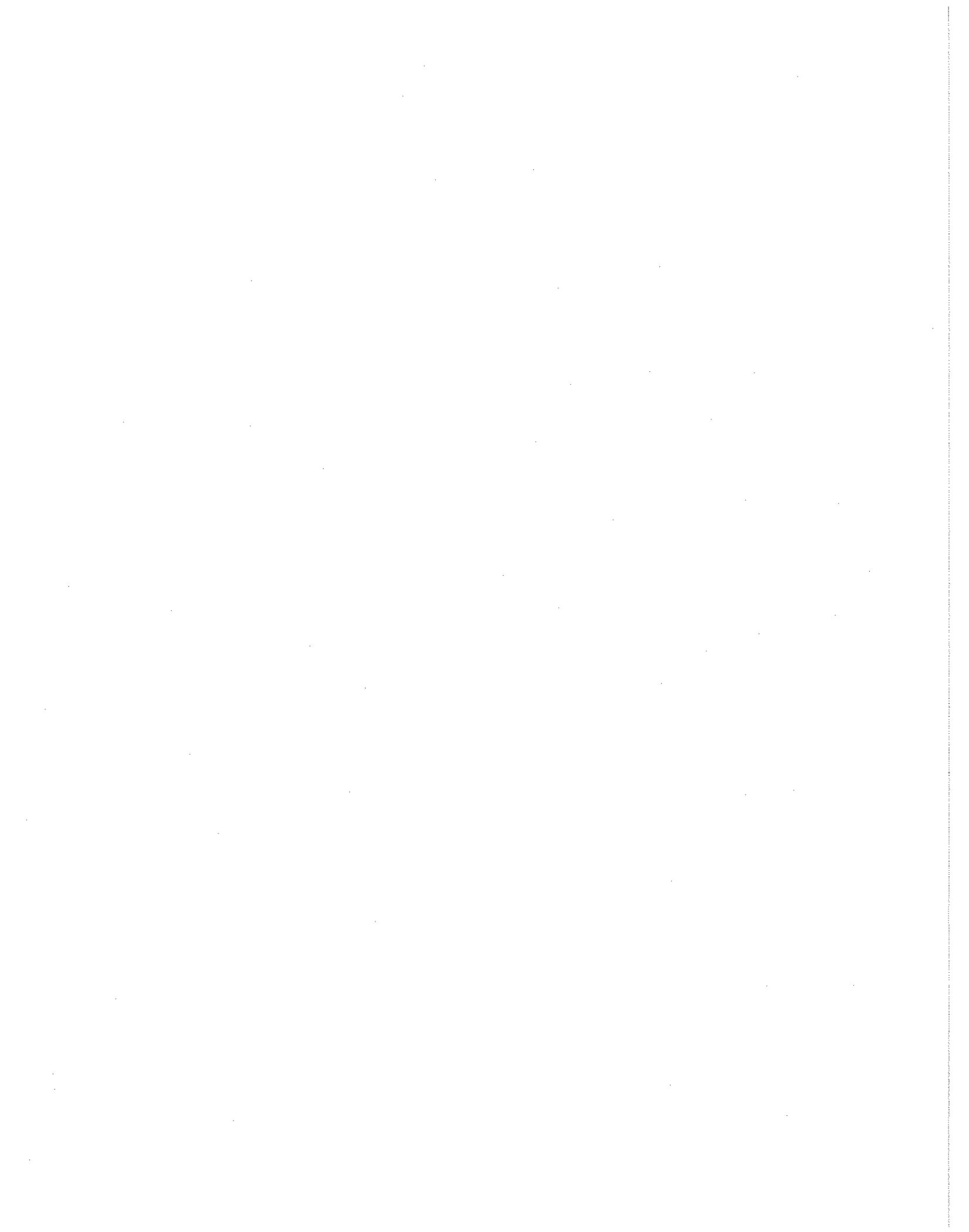
**Third Quarter 2004**

Additional Metal Sampling:

<b>Discharge Point: 4 - SOUTHEAST OUTFALL (OUTFALL - SE)*</b>						
Quarterly Monitoring		AVERAGE	MAXIMUM	UNITS	Sample Type	Events Sampled
Copper (Total)	Consistent Attainment		ND		Grab	
Lead (Total)	Consistent Attainment		ND		Grab	
Hardness	Consistent Attainment		59.3		Grab	

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ROBERT R. MAY / MANUF. MGR, Feb 13, 2006  
 Name/Title Principle Executive Officer Site Coordinator Date: Mo Day Year  
 (360) 425-1114  
 Signature of Principal Executive Officer or Authorized Agent Telephone Number





# SOLVAY CHEMICALS

INTEROX, FLUORIDES & MINERALS

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Department of Ecology  
Water Quality Program  
JAN 03 2006

Joyce M. Smith  
Industrial Stormwater Permit Coordinator  
Washington State Department of Ecology  
PO Box 47696  
Olympia, WA 98504-7696

RE: Level Two Source Control Report for Samples Above the Benchmark Value for Zinc at the Solvay Chemicals, Inc. Facility in Longview, WA

Dear Ms. Smith:

Enclosed is the Level Two Source Control Report for samples above the benchmark value for zinc at the Solvay Chemicals, Inc. facility in Longview, WA. The zinc values obtained during the first and second quarters of 2005 were above the benchmark value, which prompted this report.

If you have any questions or require additional information, please feel free to contact me at 360-577-7567.

Best regards,

*Alicia B. Fuentes*

Alicia B. Fuentes

Technical Services Manager





