

POSTED  
DATE: 09/27/07  
INITIALS: JK

Coed 8/14/06  
DEPARTMENT OF ECOLOGY  
AUG 14 2006  
WATER QUALITY PROGRAM

SO3-000570D

# INDUSTRIAL STORMWATER GENERAL PERMIT DISCHARGE MONITORING REPORT

MONITORING PERIOD for (year/quarter): 2006 year Jan/Feb/Mar Apr/May/June Jul/Aug/Sep Oct/Nov/Dec

## Facility/Site Information

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

## Mailing Information

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

Primary SIC Code: 2819

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	<u>Consistent Attainment</u>			Standard Units		
Zinc (total)	Consistent Attainment		<u>466</u>	µg/L	<u>Grab</u>	
Oil & Grease	<u>Consistent Attainment</u>			mg/L	<u>Grab</u>	
Nitrate/Nitrite as N	Consistent Attainment		<u>0.28</u>	mg/L	<u>Grab</u>	
Phosphorus (TP)	<u>Consistent Attainment</u>			mg/L		
BOD5	<u>Consistent Attainment</u>			mg/L		

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	<u>Consistent Attainment</u>			NTU		
Oxygen, Dissolved (DO)	Consistent Attainment		<u>11.16</u>	mg/L	<u>Grab</u>	

Additional Metal Sampling

Discharge Point 4-SOUTHEAST OUTFALL (OUTFALL-SE)\*

Quarterly Monitoring	Maximum	Units	Sample Type
Copper (Total)	ND	µg/L	Grab
Lead (Total)	ND	µg/L	Grab
Hardness	50	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 Coordination

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER (TYPED OR PRINTED)

August 9, 2006

DATE: MO DAY YEAR

Robert R. May (MPB)

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

August 8, 2006

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

DEPARTMENT OF ECOLOGY  
AUG 14 2006  
WATER QUALITY PROGRAM

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 values obtained during the second quarter of 2006 was 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

Technical Services Manager



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

**Date Inspection Conducted: 5/17/06**

**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.



**Smith, Joyce M. (ECY)**

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**From:** Stasch, Paul (ECY)  
**Sent:** Monday, October 02, 2006 10:37 AM  
**To:** Smith, Joyce M. (ECY)  
**Subject:** FW: Report for Inspection of Solvay Chemicals, Inc. - Longview, WA Facility

FYI

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**From:** Stasch, Paul (ECY)  
**Sent:** Wednesday, September 27, 2006 10:26 AM  
**To:** 'Fuentes, Alicia'  
**Cc:** Eberl, Steve  
**Subject:** RE: Report for Inspection of Solvay Chemicals, Inc. - Longview, WA Facility

Ms. Fuentes - Thank you for your feedback on my inspection. At the time of the inspection, I reviewed the Level One Response for zinc, however, I did not see one for nitrate/nitrite in the SWPPP. If I overlooked it, please accept my apologies. The permit reads that the Level One Response is to be attached to the facility's SWPPP and that a summary is provided with the DMR. I do not see the DMRs as they are not submitted to me. This is an artifact of the Industrial Stormwater General permit. The administration of the permit is managed by a different group of folks than are the compliance issues which are handled out of the regional offices. The Level Two Reports do have to be submitted to Ecology and it is unclear to whom they are to be submitted. We are aware of this problem and are trying to address it for the new permit that is scheduled to be reissued in September 2007. It is our position that a Level One Response does not have to be undertaken while a facility is in a Level Two or Level Three Response. However, it would be prudent for a facility to conduct a facility inspection promptly should there be another exceedance of a Benchmark Value with the receipt of the next quarterly monitoring results and include the inspection report in the SWPPP.

If you have any further questions or need additional clarification, please don't hesitate to contact me at your earliest convenience.

Thank you again for your attention to these matters.

Paul Stasch  
Stormwater Facility Manager

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**From:** Fuentes, Alicia [mailto:Alicia.Fuentes@solvay.com]  
**Sent:** Wednesday, September 27, 2006 9:51 AM  
**To:** Stasch, Paul (ECY)  
**Subject:** Report for Inspection of Solvay Chemicals, Inc. - Longview, WA Facility

Mr. Stasch,

First of all, I would like to thank you for the time that you took during the inspection that you conducted at the Solvay Chemicals, Inc. - Longview, WA facility on August 22, 2006 to discuss the facility's zinc levels that are above the benchmark value. I appreciate the guidance that you offered on this topic.

In addition, I would like to address the requirement listed in the "Summary of Findings" section of the NPDES Permit Compliance Inspection Report. The requirement states to "conduct a Level One Response for nitrate/nitrite." A Level One Response for nitrate/nitrite was conducted, and a summary of the facility inspection conducted in response to sample results above the benchmark value for "nitrate/nitrite as N" was sent to the DOE (to Joyce M. Smith, Industrial Stormwater Permit Coordinator) with the facility's third quarter 2005 DMR. Attached

10/11/2006





is an electronic copy of the Level One Response that was sent with the facility's third quarter DMR. Please note that a Level One Response for both zinc and nitrate/nitrite are included in the attached document, and the nitrate/nitrite response is on the second page

<<Q305 Inspection Summary doc>>

Lastly, I wanted to confirm that a Level One Response is no longer required now that the facility has moved through a Level Two and into a Level Three response for zinc. At your earliest convenience, please verify that this interpretation is correct. Thank you very much; I appreciate your time.

Best regards,

*Alicia Fuentes*

Technical Services Manager

Solvay Chemicals, Inc. - Longview, WA

☎ 360.577.7567

✉ [alicia.fuentes@solvay.com](mailto:alicia.fuentes@solvay.com)

visit us at: [www.solvaychemicals.us](http://www.solvaychemicals.us)

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d'ensuite detruire ce message.

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**Smith, Joyce M. (ECY)**

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**From:** Stasch, Paul (ECY)  
**Sent:** Monday, October 02, 2006 10:36 AM  
**To:** Smith, Joyce M. (ECY)  
**Subject:** FW: Report for Inspection of Solvay Chemicals, Inc. - Longview, WA Facility  
**Attachments:** Q305 Inspection Summary.doc

Hi Joyce - This is what I was talking about in the meeting. I didn't know it was sent to you until she told me. It wasn't in the SWPPP and that is what I rely upon when I do the inspection. Next I will send you my response to her.

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**From:** Fuentes, Alicia [mailto:Alicia.Fuentes@solvay.com]  
**Sent:** Wednesday, September 27, 2006 9:51 AM  
**To:** Stasch, Paul (ECY)  
**Subject:** Report for Inspection of Solvay Chemicals, Inc. - Longview, WA Facility

Mr. Stasch,

First of all, I would like to thank you for the time that you took during the inspection that you conducted at the Solvay Chemicals, Inc. - Longview, WA facility on August 22, 2006 to discuss the facility's zinc levels that are above the benchmark value. I appreciate the guidance that you offered on this topic.

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Best regards,

*Alicia Fuentes*

Technical Services Manager  
Solvay Chemicals, Inc. - Longview, WA  
☎ 360.577.7567  
✉ alicia.fuentes@solvay.com  
visit us at: [www.solvaychemicals.us](http://www.solvaychemicals.us)

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10/11/2006



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