

# TRONOX

Fredrick R. Stater  
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April 22, 2010

Compliance Coordinator  
Nevada Division of Environmental Protection  
901 South Stewart Street, Suite 4001  
Carson City, NV 89701-5249

**SUBJECT: First Quarter 2010 DMR - Permit NEV2001515 – GW-11 Pond**

Tronox LLC, Tronox, maintains a Permit #NEV2001515 covering the synthetically double-lined GW-11 pond operation in Henderson, Nevada. No water was discharged directly from GW-11 pond to the receiving water body. However, water from GW-11 pond (along with other groundwater sources) was treated for perchlorate removal and discharged under the authority of an NPDES permit NV0023060. The attached Discharge Monitoring Reports, DMR's, (Attachment 1) and accompanying tables provide pond operational information. Pursuant to I.A.14, this fourth quarter report also includes a labeled and dated photograph of the G-11 pond.

Should you have any questions concerning this report, please contact Susan M. Crowley at (702) 592-7727 (cell) or e-mail [susan.crowley@tronox.com](mailto:susan.crowley@tronox.com). Thank you.

Sincerely,



Fredrick R. Stater

## Overnight Mail

CC: Please see attached distribution sheet



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Documents\Document1

## Attachments

Smc/10 1st Q GW11 Pond DMR - Cvr Ltr.doc

**Tronox. Adding value beyond the product.**

560 West Lake Mead Parkway, Henderson, Nevada 89015 • P.O. Box 55, Henderson, Nevada 89009

**Tronox Document Distribution List**

Updated: 21-Apr-10

**Document Name:** Pond Permit NEV2001515DMRs \*

\* Cover letter includes everything but the analytical reports on CD (Data) - and is reproduced in a 2-sided transmittal

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Donnelly	Dara	Northgate		X	
Willis	Derrick	Northgate		X	
Arnold	Cindy	Northgate		X	
Otis	Josh	Northgate		X	
Lambeth	Jeff	Veolia		X	
Baker	Ken	Chartis		X	
Diebenow	Julie	Chartis		X	
Giroux	Barry	GEI		X	
Gibson	Jeff	AmPac			
Stowers	Kirk	Broadbent			
Sahu	Rahnijit	BMI			
Crouse	George	Syngenta			
Erickson	Lee	Stauffer			
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Wilkinson	Craig	Timet			
Mack	Joel	Montrose Counsel			

# **ATTACHMENT 1**

## **Discharge Monitoring Reports**

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**January 2010**

C:\smc\My  
Documents\Excel Spr

**February 2010**

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Documents\Excel Spr

**March 2010**

PERMITTEE NAME/ADDRESS:

NAME: Tronox LLC  
 ADDRESS: PO Box 55  
 Henderson, NV 89009-7000

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

**DISCHARGE MONITORING REPORT (DMR)**

NV2001515  
 PERMIT NUMBER

001  
 DISCHARGE NUMBER

FACILITY: Tronox LLC  
 LOCATION: Henderson, NV  
 ATTN: Susan Crowley

**MONITORING PERIOD**

FROM 10 | 01 | 01 TO 10 | 01 | 31

NO DISCHARGE

NOTE: Read instructions before completing this form.

PARAMETER	SAMPLE MEASUREMENT / PERMIT REQUIREMENT	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	30 Day Ave (mg/l)	7 Day Ave (mg/l)	30 Day Ave (lb/day)	UNIT			
<b>Flow</b> Influent	SAMPLE MEASUREMENT	Please see attached Table 1		MGD	-----	-----	-----		0	Monthly	Flow Meter
	PERMIT REQUIREMENT	Monitor and Report			-----	-----	-----				
<b>Leak Detection Information</b>	SAMPLE MEASUREMENT	-----	-----		Please see attached Table 2		-----		0	Bi-Monthly	Discrete
	PERMIT REQUIREMENT				Monitor and Report						
<b>Pond Water Level</b>	SAMPLE MEASUREMENT	-----	-----		Please see attached Table 1		-----		0	Bi-Monthly	Discrete
	PERMIT REQUIREMENT				Monitor and Report						
<b>Storage Volume</b>	SAMPLE MEASUREMENT	-----	-----		Please see attached Table 1		-----		0	Bi-Monthly	Calculation
	PERMIT REQUIREMENT				Monitor and Report						
<b>Water Balance Information</b>	SAMPLE MEASUREMENT				Please see attached Table 1		-----		0	Monthly	Calculation
	PERMIT REQUIREMENT				Monitor and Report						
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

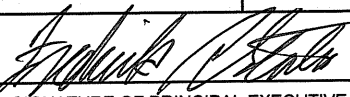
NAME / TITLE PRINCIPAL EXECUTIVE OFFICER

Fredrick R. Stater

Plant Manager

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED, BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.



SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE

702-651-2200

AREA CODE NUMBER

DATE

10 | 04 | 22

YEAR MO DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS  
 Pond GW-11

(Reference all attachments here)

Forms by WindowChem(707)864-0845;p/n11090;v5.01;4/1/96

PERMITTEE NAME/ADDRESS:

NAME: Tronox LLC  
 ADDRESS: PO Box 55  
 Henderson, NV 89009-7000

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

**DISCHARGE MONITORING REPORT (DMR)**

NV2001515	001
PERMIT NUMBER	DISCHARGE NUMBER

FACILITY: Tronox LLC  
 LOCATION: Henderson, NV  
 ATTN: Susan Crowley

MONITORING PERIOD							
FROM	10	02	01	TO	10	02	28

NO DISCHARGE

NOTE: Read instructions before completing this form.

PARAMETER	SAMPLE MEASUREMENT / PERMIT REQUIREMENT	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	30 Day Ave (mg/l)	7 Day Ave (mg/l)	30 Day Ave (lb/day)	UNIT			
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<b>Leak Detection Information</b>	SAMPLE MEASUREMENT	-----	-----		Please see attached Table 2		-----		0	Bi-Monthly	Discrete
	PERMIT REQUIREMENT				Monitor and Report						
<b>Pond Water Level</b>	SAMPLE MEASUREMENT	-----	-----		Please see attached Table 1		-----		0	Bi-Monthly	Discrete
	PERMIT REQUIREMENT				Monitor and Report						
<b>Storage Volume</b>	SAMPLE MEASUREMENT	-----	-----		Please see attached Table 1		-----		0	Bi-Monthly	Calculation
	PERMIT REQUIREMENT				Monitor and Report						
<b>Water Balance Information</b>	SAMPLE MEASUREMENT				Please see attached Table 1		-----		0	Monthly	Calculation
	PERMIT REQUIREMENT				Monitor and Report						
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME / TITLE PRINCIPAL EXECUTIVE OFFICER  
**Fredrick R. Stater**  
 Plant Manager  
 TYPED OR PRINTED

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*Fredrick R. Stater*  
 SIGNATURE OF PRINCIPAL EXECUTIVE  
 OFFICER OR AUTHORIZED AGENT

TELEPHONE	DATE
702-651-2200	10   04   22
AREA CODE NUMBER	YEAR MO DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS  
 Pond GW-11

(Reference all attachments here)

Forms by WindowChem(707)864-0845;pn11090;v5.01;4/1/96

PERMITTEE NAME/ADDRESS:

NAME: Tronox LLC  
 ADDRESS: PO Box 55  
 Henderson, NV 89009-7000

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

**DISCHARGE MONITORING REPORT (DMR)**

NV2001515	001
PERMIT NUMBER	DISCHARGE NUMBER

FACILITY: Tronox LLC  
 LOCATION: Henderson, NV  
 ATTN: Susan Crowley

MONITORING PERIOD							
FROM	10	03	01	TO	10	03	31

NO DISCHARGE

NOTE: Read instructions before completing this form.

PARAMETER	SAMPLE MEASUREMENT / PERMIT REQUIREMENT	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	30 Day Ave (mg/l)	7 Day Ave (mg/l)	30 Day Ave (lb/day)	UNIT			
Flow Influent	SAMPLE MEASUREMENT	Please see attached Table 1		MGD	-----	-----	-----		0	Monthly	Flow Meter
	PERMIT REQUIREMENT	Monitor and Report			-----	-----	-----				
Leak Detection Information	SAMPLE MEASUREMENT	-----	-----		Please see attached Table 2		-----		0	Bi-Monthly	Discrete
	PERMIT REQUIREMENT				Monitor and Report						
Pond Water Level	SAMPLE MEASUREMENT	-----	-----		Please see attached Table 1		-----		0	Bi-Monthly	Discrete
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Water Balance Information	SAMPLE MEASUREMENT				Please see attached Table 1		-----		0	Monthly	Calculation
	PERMIT REQUIREMENT				Monitor and Report						
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME / TITLE PRINCIPAL EXECUTIVE OFFICER  
**Fredrick R. Stater**  
 Plant Manager  
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*Fredrick R. Stater*  
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: 702-651-2200  
 DATE: 10 | 04 | 22  
 AREA CODE NUMBER: 702  
 YEAR MO DAY: 10 | 04 | 22

COMMENT AND EXPLANATION OF ANY VIOLATIONS  
 Pond GW-11

(Reference all attachments here)

Forms by WindowChem(707)864-0845;p/n11090;v5.01;4/1/96

## **ATTACHMENT 2**

### **Pond Monitoring Results**

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**Pond Data**

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**Water Balance**

**Table 1 – GW-11 Pond Monitoring Information**

Date	Flow Into Pond (MGD)	Storage Volume (thousand gallons)	Water Balance (Mgallons)	Flow from Pond to FBR's * (thousand gallons)
1-1-10	-0.063	12,274		1,833
1-15-10		12,014	3.7	1,637
2-1-10	-0.071	12,127		1,598
2-15-10		11,438	4.6	1,437
3-1-10	-0.066	11,901		1,235
3-15-10		10,590	7.8	1,434

\* No water discharged directly from the pond to the receiving body.

**Table 2 – GW-11 Pond Leak Detection Monitoring**

Date	Volume in Detection Well (gallons)
1-7-10	SE – Dry
"	SW – 185
"	NW – Dry
"	NE – Dry
1-21-10	SE – Dry
"	SW – 350
"	NW – Dry
"	NE – Dry
2-4-10	SE – Dry
"	SW – 270
"	NW – Dry
"	NE – Dry
2-18-10	SE – Dry
"	SW – 350
"	NW – Dry
"	NE – Dry
3-4-10	SE – Dry
"	SW – 250
"	NW – Dry
"	NE – Dry
3-18-10	SE – Dry
"	SW – 250
"	NW – Dry
"	NE – Dry